

*Bally*®

1976

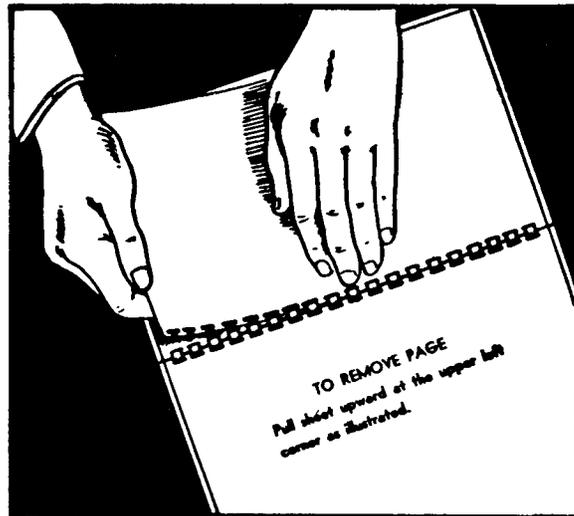
**PARTS CATALOG**  
FOR FLIPPER-TYPE GAMES

*Bally*® **MANUFACTURING CORPORATION**

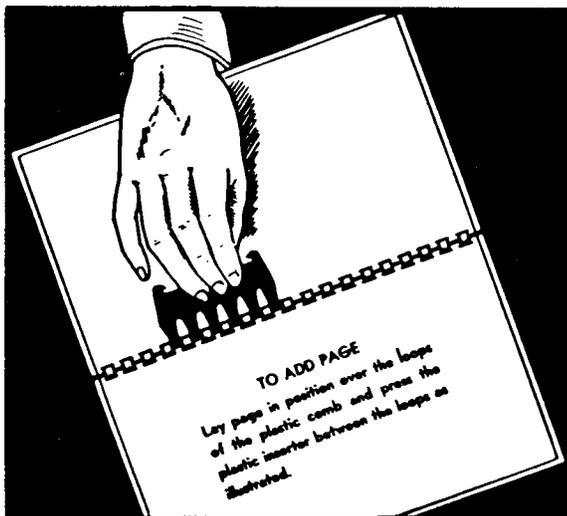
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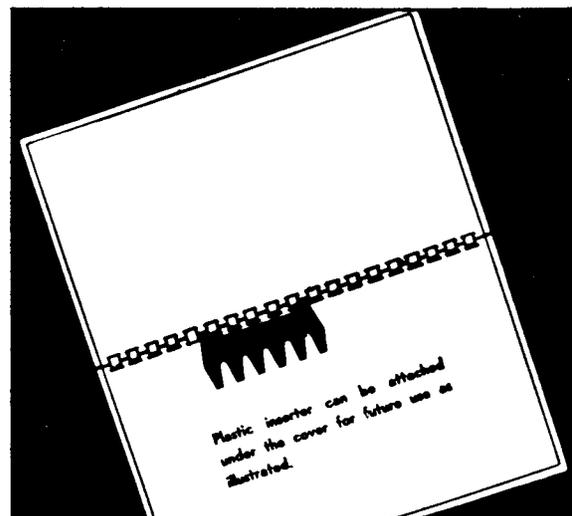
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# IMPORTANT

Note that the 1976 Catalog is sub-divided into 10 sections with the first page of each section printed on heavy colored paper, tabbed for ready reference. A few moments spent in becoming familiar with the general contents of each section will greatly facilitate location of desired parts. The 10 sections, together with first page of each section, are listed below.

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Sound Components .....	120	Back Cabinet.....	214

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116-117	Anti-Tilt Components	206-213	Front Cabinet
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119	Tilt Switch Assys.		
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122	Chime Assy.		
123	Gong Assy., Horn Assy., Knocker Assy., Sounder Assy.		
124-155	Playfield Charts		

## CAUTION!

Protect your investment.  
Use only Genuine Bally Parts  
to service Ballygames.

YOU CAN BANK ON A *Bally* GAME<sup>®</sup>

# BALLY FLIPPER TYPE PINBALL GAMES

NUMBER IN PARENTHESIS INDICATES NUMBER OF PLAYERS

(A) INDICATES ADD-A-BALL MODEL OF PRECEDING GAME

## Listed Chronologically

## Listed Alphabetically

NO.	NAME	DATE
1	MOON-SHOT (1)	February, 1963
2	CROSS COUNTRY (1)	March, 1963
3	CUE-TEASE (2)	July, 1963
4	3-IN-LINE (4)	July, 1963
5	HOOTENANNY (1)	November, 1963
6	STAR-JET (2)	December, 1963
7	MONTE CARLO (1)	February, 1964
8	BONGO (2)	March, 1964
9	SKY DIVERS (1)	April, 1964
10	MAD WORLD (2)	May, 1964
11	GRAND TOUR (1)	June, 1964
12	HAPPY TOUR (1) (A)	June, 1964
13	2 IN 1 (2)	July, 1964
14	BIG DAY (4)	August, 1964
15	HARVEST (1)	October, 1964
16	HAYRIDE (1) (A)	October, 1964
17	BUS STOP (2)	December, 1964
18	BULLFIGHT (1)	January, 1965
19	SHEBA (2)	February, 1965
20	BAND WAGON (4)	March, 1965
21	MAGIC CIRCLE (1)	June, 1965
22	50/50 (2)	July, 1965
23	ACES HIGH (4)	August, 1965
24	DISCOTEK (2)	September, 1965
25	TRIO (1)	November, 1965
26	TRIO (1) (A)	November, 1965
27	BLUE RIBBON (4)	December, 1965
28	WILD WHEELS (2)	February, 1966
29	SIX STICKS (6)	March, 1966
30	GOLD RUSH (1)	April, 1966
31	GOLD RUSH (1) (A)	April, 1966
32	CAMPUS QUEEN (4)	August, 1966
33	LOOP THE LOOP (2)	September, 1966
34	LOOP THE LOOP (2) (A)	September, 1966
35	BAZAAR (1)	October, 1966
36	BAZAAR (1) (A)	October, 1966
37	CAPERSVILLE (4)	December, 1966
38	ROCKET III (1)	April, 1967
39	THE WIGGLER (4)	August, 1967
40	SURFERS (1)	December, 1967
41	DOGIES (4)	January, 1968
42	DIXIELAND (1)	April, 1968
43	SAFARI (2)	May, 1968
44	ROCK MAKERS (4)	August, 1968
45	MINI-ZAG (1)	November, 1968
46	COSMOS (4)	January, 1969
47	OP-POP-POP (1)	April, 1969
48	GATOR (4)	June, 1969
49	ON BEAM (1)	August, 1969
50	JOUST (2)	September, 1969
51	BALLYHOO (4)	October, 1969
52	KING TUT (1)	December, 1969
53	KING REX (1) (A)	January, 1970
54	GALAHAD (2)	January, 1970
55	CAMELOT (4)	February, 1970
56	BOWL-O (1)	April, 1970
57	BIG VALLEY (4)	May, 1970
58	ZIP-A-DOO (2)	August, 1970
59	TRAIL DRIVE (1)	September, 1970
60	SEE-SAW (4)	November, 1970
61	4 QUEENS (1)	December, 1970
62	VAMPIRE (2)	January, 1971
63	FIRECRACKER (4)	February, 1971
64	SKYROCKET (2)	May, 1971

NAME	NO. IN LIST AT LEFT
ACES HIGH (4)	23
AIR ACES (4)	89
ALLIGATOR: See GATOR	
AMIGO (4)	83
BALLYHOO (4)	51
BAND WAGON (4)	20
BAZAAR (1)	35
BAZAAR (1) (A)	36
BIG DAY (4)	14
BIG SHOW (2)	79
BIG VALLEY (4)	57
BLUE RIBBON (4)	27
BONGO (2)	8
BON VOYAGE (1)	86
BOOMERANG (4)	87
BOW AND ARROW (4)	93
BOWL-O (1)	56
BULLFIGHT (1)	18
BUS STOP (2)	17
CAMELOT (2)	55
CAMPUS QUEEN (4)	32
CAPERSVILLE (4)	37
CAPT. FANTASTIC (4)	97
CHAMP (4)	80
CIRCUS (2)	78
COSMINT: See COSMOS	
COSMOS (4)	46
CROSS COUNTRY (1)	2
CUE-TEASE (2)	3
DELTA QUEEN (1)	84
DISCOTEK (2)	24
DIXIELAND (1)	42
DOGIES (4)	41
EL TORO (1)	70
EXPRESSWAY (1)	66
50/50 (2)	22
FIREBALL (4)	69
FIRECRACKER (4)	63
FLICKER (2)	88
FLIP FLOP (4)	94
FOUR MILLION B.C. (4)	65
4 QUEENS (1)	61
GALAHAD (4)	54
GATOR (4)	48
GOLD RUSH (1)	30
GOLD RUSH (1) (A)	31
GRAND TOUR (1)	11
HAPPY TOUR (1) (A)	12
HARVEST (1)	15
HAY-RIDE (1) (A)	16
HI-DEAL (1)	92
HI-LO ACE (1)	77
HOKUS POKUS	95
HOO: See BALLYHOO	
HOOTENANNY (1)	5
JOUST (2)	50
KING REX (1)	53
KING TUT (1)	52
KNOCKOUT (2)	90
LITTLE JOE (4)	71
LOOP THE LOOP (2)	33
LOOP THE LOOP (2) (A)	34
MAD WORLD (2)	10
MAGIC CIRCLE (1)	21

# BALLY FLIPPER TYPE PINBALL GAMES

NUMBER IN PARENTHESIS INDICATES NUMBER OF PLAYERS  
(A) INDICATES ADD-A-BALL MODEL OF PRECEDING GAME

## Listed Chronologically

NO.	NAME	DATE
65	FOUR MILLION B.C. (4)	May, 1971
66	EXPRESSWAY (1)	August, 1971
67	SEA RAY (2)	September, 1971
68	MARINER (4)	November, 1971
69	FIREBALL (4)	February, 1972
70	EL TORO (1)	April, 1972
71	LITTLE JOE (4)	August, 1972
72	SPACE TIME (4)	September, 1972
73	MONTE CARLO (4)	March, 1973
74	ODDS & EVENS (1)	March, 1973
75	TIME ZONE (2)	May, 1973
76	NIP-IT (4)	July, 1973
77	HI-LO ACE (1)	October, 1973
78	CIRCUS (4)	November, 1973
79	BIG SHOW (2)	January, 1974
80	CHAMP (4)	February, 1974
81	TWIN WIN (2)	February, 1974
82	SKY KINGS (1)	April, 1974
83	AMIGO (4)	May, 1974
84	DELTA QUEEN (1)	July, 1974
85	ROGO (4)	August, 1974
86	BON VOYAGE (1)	November, 1974
87	BOOMERANG (4)	December, 1974
88	FLICKER (2)	January, 1975
89	AIR ACES (4)	February, 1975
90	KNOCKOUT (2)	April, 1975
91	WIZARD (4)	May, 1975
92	HI-DEAL (1)	October, 1975
93	BOW AND ARROW (4)	November, 1975
94	FLIP FLOP (4)	January, 1976
95	HOKUS POKUS (2)	March, 1976
96	OLD CHICAGO (4)	April, 1976
97	CAPT. FANTASTIC (4)	June, 1976

## Listed Alphabetically

NAME	NO. IN LIST AT LEFT
MARINER (4)	68
MINI-ZAG (1)	45
MONTE CARLO (1)	7
MONTE CARLO (4)	73
MOON-SHOT (1)	1
NIP-IT (4)	76
ODDS & EVENS (1)	74
OLD CHICAGO (4)	96
ON BEAM (1)	49
OP-POP-POP (1)	47
ROCKET III (1)	38
ROCK MAKERS (4)	44
ROGO (4)	85
SAFARI (2)	43
SEE-SAW (4)	60
SEA RAY (2)	67
SHEBA (2)	19
SIX STICKS (6)	29
SKY DIVERS (1)	9
SKY KINGS (1)	82
SKYROCKET (2)	64
SPACE TIME (4)	72
STAR-JET (2)	6
SURFERS (1)	40
THE WIGGLER (4)	39
3-IN-LINE (4)	4
TIME ZONE (2)	75
TRAIL DRIVE (1)	59
TRIO (1)	25
TRIO (1) (A)	26
TWIN WIN (2)	81
2 IN 1 (2)	13
VAMPIRE (2)	62
WILD WHEELS (2)	28
WIGGLER: See THE WIGGLER	
WIZARD (4)	91
ZIP-A-DOO (2)	58

# **LUBRICATION GUIDE**

For proper maintenance of Bally game, all moving parts of all units, **excepting as noted below**, should be lubricated with the light MBI Instrument Grease supplied with games and available through Bally Distributors or the Bally Service Department.

## **CONTACT PLATES**

Contact Plates, either rivet type or printed circuit type, should be lubricated with a **very light application** of LB550X Oil, which is also available through Bally Distributors or Service Department.

## **CAUTION**

Use of other type lubricant than LB550X Oil on Contact Plates may cause failure in circuitry.

## **MOTOR GEARS; MOTOR ROTOR BEARINGS**

Enclosed motor gears and bearings are factory lubricated, need no further maintenance.

## **PLUNGERS, SOLENOID**

**Do not lubricate Solenoid Plungers.**

A scheduled and thorough maintenance program will repay many times the cost in trouble-free operation and minimum wear of parts.

# COIN HANDLING COMPONENTS



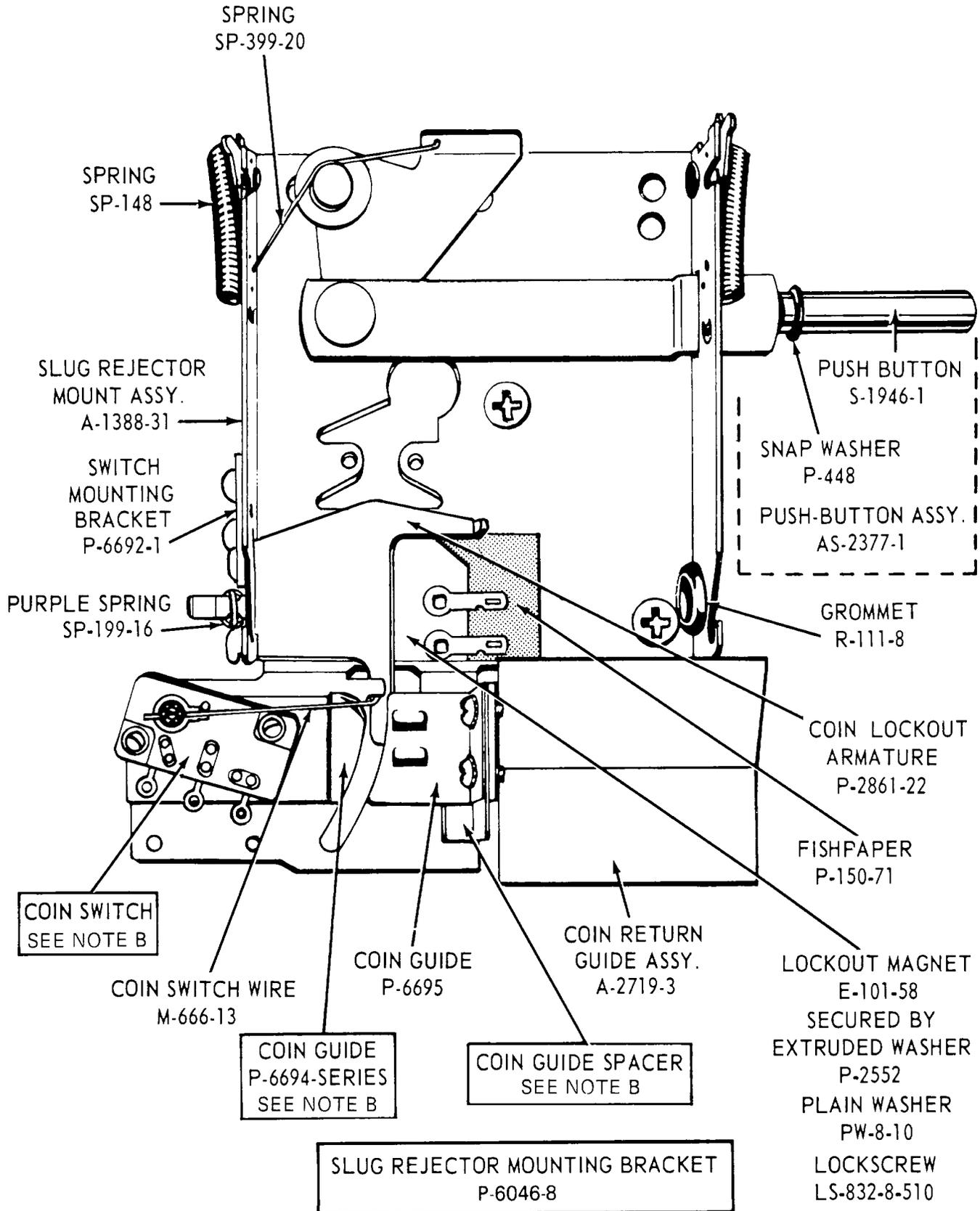
# **INDEX TO COIN HANDLING COMPONENTS**

<b>Alternator Units</b> .....	<b>15-18</b>
<b>Coin-Mechanism Data, International</b> .....	<b>19-21</b>
<b>Coin Switch &amp; Rejector Mounting Assys.</b> .....	<b>7-14</b>
<b>Door, Front, New</b> .....	<b>11-14</b>
<b>International Coin-Mechanism Data</b> .....	<b>19-21</b>
<b>New Front Door</b> .....	<b>11-14</b>
<b>Rejector Mounting Assys., Coin Switch &amp;</b> .....	<b>7-14</b>

# COIN-SWITCH & REJECTOR MOUNTING ASSY.

## AS-277-137

SEE NOTES A, B



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

**NOTE A**

Coin-Switch & Rejector Mounting Assy. AS-277-137, illustrated on page 7, was used only with

**Single Coin Chute.**

**EXPRESSWAY, SEA RAY, MARINER**

Other Coin Switch & Rejector Mounting Assys. are detailed in NOTE A, page 10.

**NOTE B**

To determine correct part number, refer to International Coin-Mechanism Data, commencing on page 19.

**FASTENERS**

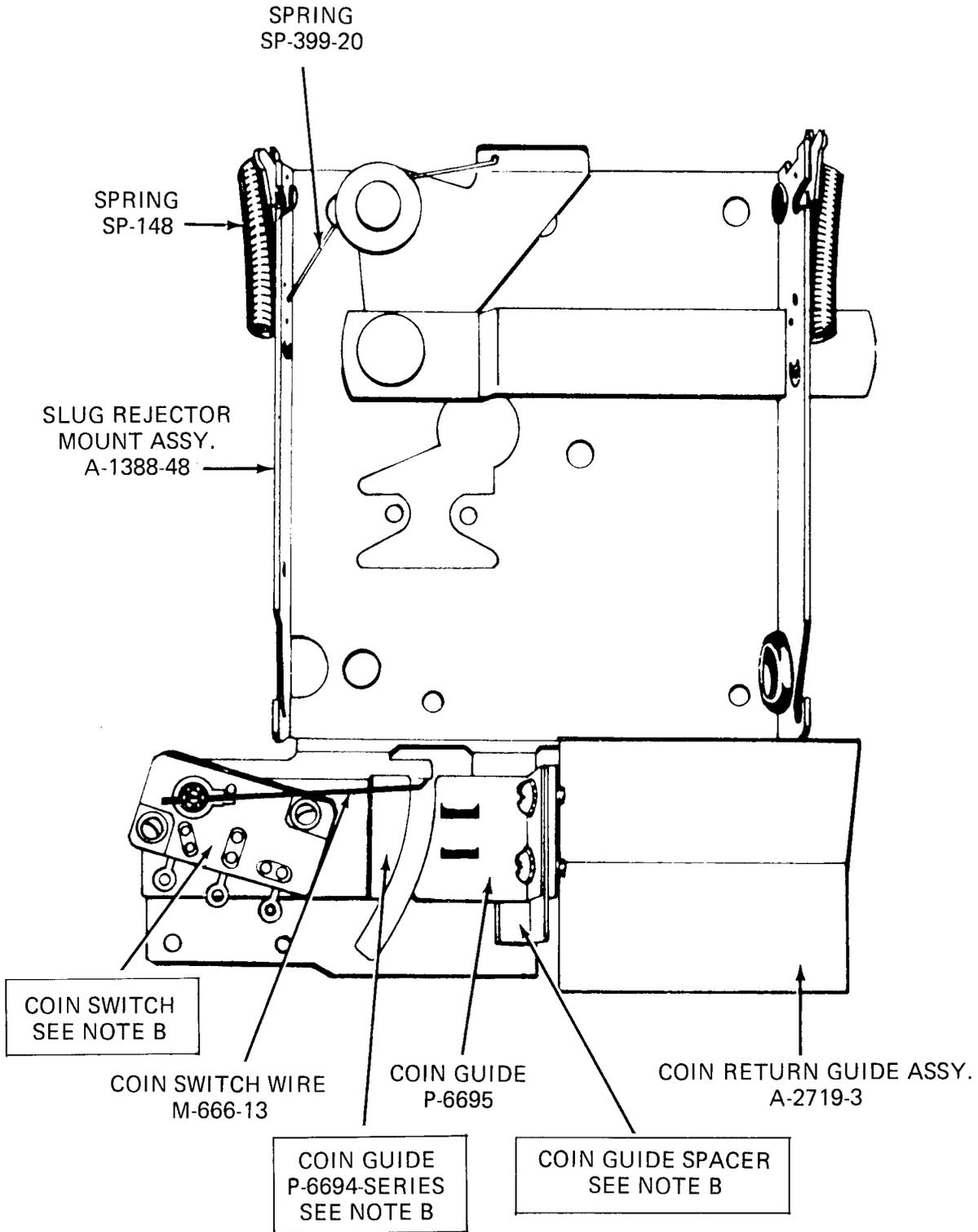
Order nuts, screws, washers and other fasteners by name or description with reference to

(A) AS-277-137,

(B) Part fastener secures.

# COIN-SWITCH & REJECTOR MOUNTING ASSY.

SEE NOTE A



WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

NOTE A

COIN-SWITCH & REJECTOR MOUNTING ASSYS.  
EXPRESSWAY, SEA RAY, MARINER

With Single Coin Chute . . . . .AS-277-137

As described, pages 7, 8

With Multiple Coin Chutes . . . . .AS-277-135

As illustrated, page 9, with

ADDED COMPONENTS (Not shown)

Lockout Wire

FOR COINS Larger

than U.S. Dimes . . . . . M-1504

FOR U.S. DIME

and other coins

same size as

or smaller than Dime . . . . . M-1504-1

Lockout Wire Bracket . . . . . P-6629-49

FIREBALL, later games\*

See pages 11-14

NOTE B

To determine correct part number, see International Coin-Mechanism Data commencing on page 19

FASTENERS

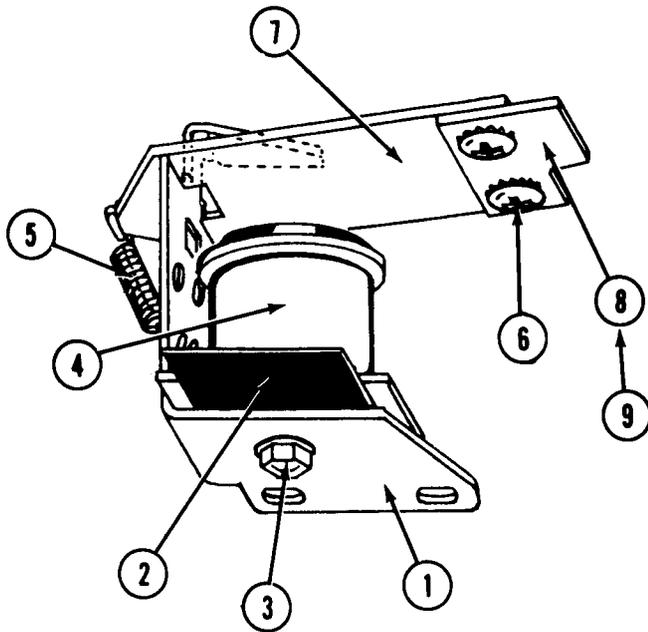
Order nuts, screws, washers and other fasteners by name or description with reference to

(A) AS-277-135,

(B) Part fastener secures.

# LATCH MAGNET ASSY. AS-2517-2

USED WITH COIN SWITCH & REJECTOR MOUNTING ASSY. AS-277-135



- ① Magnet Frame . . . . . P-7225-3
  - ② Fishpaper Insulator . . . . . P-150-100
  - ③ Screw, Hexagon Head, Brass . . . No. 8-32x3/8 in.  
With External Tooth Lockwasher
  - ④ Coil . . . . . FC-33-2600
  - ⑤ Spring . . . . . SP-100-276
  - ⑥ Lockscrew (2 used) . . . . . LS-832-3-511
  - ⑦ Armature (Latch) . . . . . P-7207-3
  - ⑧ Armature Plate . . . . . P-7326
  - ⑨ Lock-out Strip (NOT SHOWN) . . . P-7327
- LOCK-OUT STRIP,  
WHICH ENGAGES ARMATURE PLATE,  
IS NOT INCLUDED  
IN LATCH MAGNET ASSY. AS-2517-2

\*See chronological list of games, page 1.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# ← INDEX TO ILLUSTRATION, PAGE 11

1	Screw (Switch Guard)	LS-832-511
2	Hinge Assy. (Coin Drop)	
	<b>PART OF COIN DROP ASSY.</b>	
	<b>SINGLE CHUTE GAMES</b>	
	AS-2601-1	
	Coin Drop Casting	C-828
	Coin Drop Window	
	<b>See International Coin Mechanism Data, commencing page 19</b>	
	Coin Drop Cover Plate	P-582
	Coin Entry Plate	
	<b>See International Coin Mechanism Data, commencing on page 19</b>	
2	Hinge Assy.	A-254-111
	Reject Button	S-286-32
	Replay Button Assy	A-1729-17
	Retaining Ring (2)	P-2891-7
	Rubber Strip (2)	R-221-8
	Screw (10)	LSPR-00832-1104
	Spacer, Button	S-2056
	Window & Plate Bracket	P-7496
	<b>DOUBLE CHUTE GAMES</b>	
	AS-2601-2	
	<b>TRIPLE CHUTE GAMES</b>	
	AS-2601-3	
	<b>Above 2 Assys. same as AS-2601-1, above, with variations in quantity of several components.</b>	
3	Screw (Coin Slide)	LS-832-4-511
4	Front Door	
	(Door Only)	A-3444
5	Hinge Assy. (Door)	A-254-112
6	Screw, Button Head (3)	MS-832-4-610
7	Coin Slide Assy.	
	Assy. with slot to receive "ear" in opposite Assy.	A-3051-11
	Assy. with "ear" to insert in A-3051-11	A-3716-SERIES
	<b>See International Coin Mechanism Data, commencing on page 19</b>	
8	Clip	
	1/8 in. inside dimension	C-271-2
	3/16 in. inside dimension	C-271-3
	1/4 in. inside dimension	C-271-4
9	Screw (6)	LS-832-4-511
10	Screw (lockdown)	LS-632-4-511
11	Screw	
	(Lamp Socket)	LS-832-4-511
12	Lamp Socket	E-120-162
13	Insulator	P-150-78
14	Lamp	E-125-122
15	Back Plate	P-7492
16	Pivot Bracket Assy.	AS-2488
	Bracket	P-7497
	Pin	S-2055
	Retaining Ring (2)	P-2891-5
17	Screw, Parker Kalon,	
	Swage Form (4)	No. 8-32 x 1/4 in.
18	Rejector Arm	P-7600
19	Reject Lever & Pivot Assy.	AS-2487
	Bracket	P-7497
	Pin	S-2055
	Reject Lever Assy.	A-3443
	Retaining Ring (2)	P-2892-5
20	Slug Rejector	
	<b>See International Coin Mechanism Data commencing on page 19</b>	
21	Screw	LS-832-3-511

<b>ITEMS 22-25 ARE PART OF</b>	
	<b>Coin Switch-Rejector Mount Assy.</b>
31	Coin Guide
	Mounted under Coin Switch
	See International Coin Mechanism Data, commencing on page 19
25	Constant with all coins
24	Coin Guide Spacer
27	Coin Switch & Wire Assy.
23	Lockout Wire
	<b>For variable numbers, items 24, 27, 23, above, See International Coin Mechanism Data, commencing on page 19</b>
22	Lockout Wire Bracket
32	Rejector Mount Assy.
	Screw (2)
	Screw (2)
	Screw (2)
	Spring, Extension
26	Screw (2)
27	Coin Switch & Wire Assy.
	<b>Listed above under</b>
	<b>Coin Switch-Rejector Mount Assy.</b>
28	Screw (2)
29	Switch Cover
30	Screw (2)
31	Coin Guide
32	Rejector Mount Assy.
	<b>Items 31, 32, listed above under</b>
	<b>Coin Switch Rejector Mount Assy.</b>
33	Screw, Parker Kalon,
	Swage Form (6)
34	Rejector Mounting Bracket
35	Latch Magnet Assy.
	<b>Similar to illustration, page 10, with</b>
	Armature
	Coil
	Insulator
	Magnet Frame
	Screw
	Spring, Extension
36	Screw, Parker Kalon,
	Swage Form
37	Lockout Strip
28	Nut
39	Switch Guard
40	Screw,
	Thread Cutting
41	Switch Plate (Spring)
42	Anti-Tilt Switching
	<b>See page 116</b>
43	Plate
45	Lock Hardware (Supplied with item 50)
46	Lock Cam
47	Screw, Parker Kalon,
	Swage Form (2)
48	Screw (4)
49	Lock Spacer
50	Lock (with 2 keys)

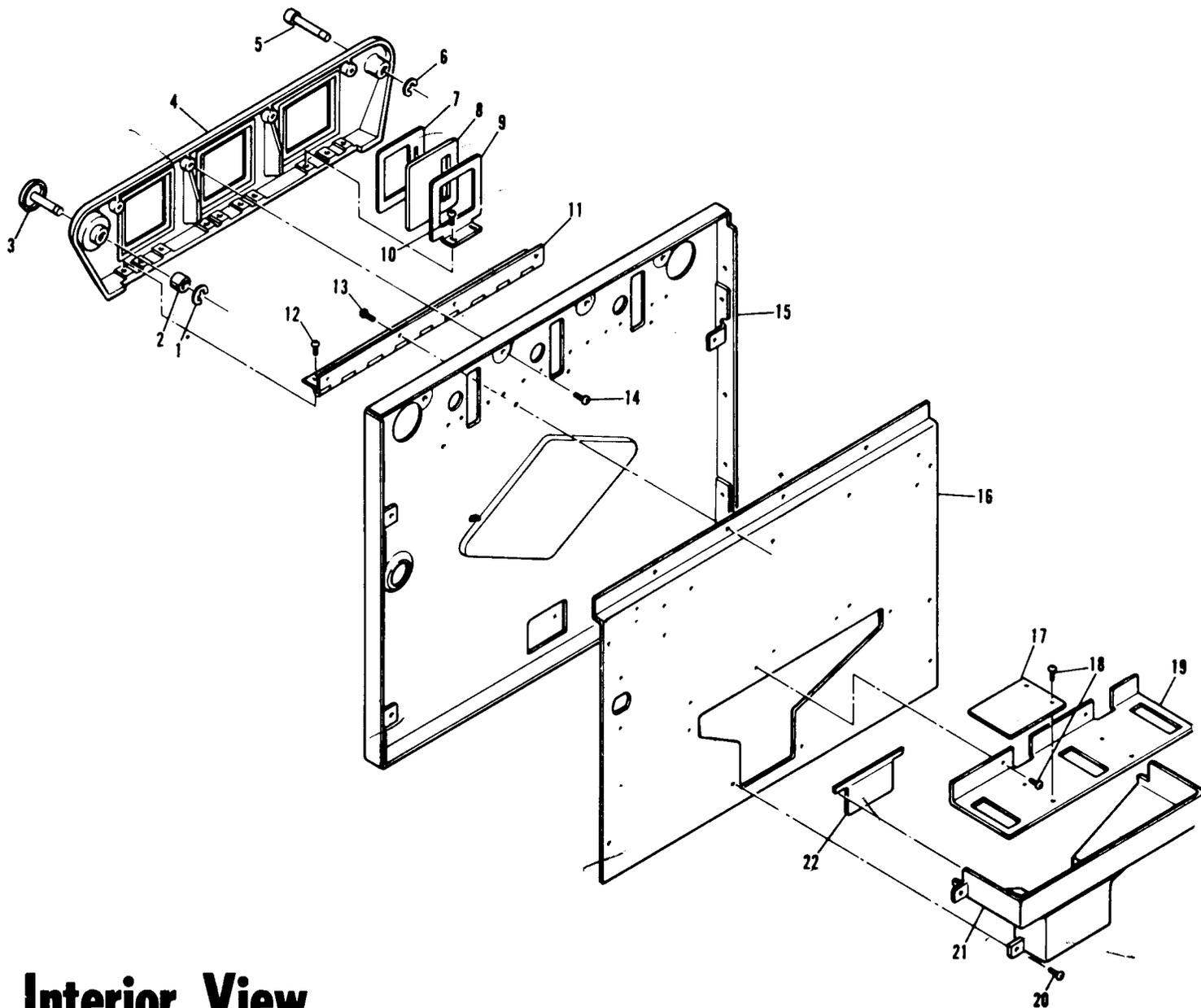
## FASTENERS

Order nuts, screws, washers, not listed by name or description with reference to part fastener secures

(2)

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# NEW IMPROVED FRONT DOOR FIREBALL and later games\*



**Interior View**  
**ALSO SEE PAGE 11**

\*See chronological list of games, page 1.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ← INDEX TO ILLUSTRATION, PAGE 13

1	Retaining Ring .....	P-2891-7	
2	Spacer .....	S-231-791	
3	Replay Button Assy. ....	A-1729-17	
4	Coin Drop Casting .....	C-828	1) C-828
5	Coin Reject Button .....	S-286-32	
6	Retaining Ring. ....	P-2897-7	
2) 7	Coin Drop Cover Plate .....	P-7601	2) P-7601
	Coin Entry Plate		
	See International Coin-Mechanism Data, commencing on page 19		
2) 8	Coin Drop Window		2) C-826 50
	See International Coin-Mechanism Data, commencing on page 19		
2) 9	Window & Plate Bracket .....	P-7496	2) P-7496
10	Screw .....	LS-832-4-511	1) A-3444
11	Hinge Assy. (Coin Drop) .....	A-254-111	
12	Screw (3) .....	LS-832-4-511	1) P-7872
13	Screw, Parker Kalon, Swage Form. ....	No. 8-32 x 1/4 in.	
14	Screw (4) .....	LS-832-4-511	1) C-827
15	Front Door (Door only) .....	A-3444	
16	Back Plate .....	P-7892	1) P-7493
17	Coin Slot Cover .....	P-6888-31	
18	Screw, Parker Kalon, Swage Form .....	No. 8-32 x 1/4 in.	
19	Coin Return Cover Plate .....	P-7712	
20	Screw, Parker Kalon, Swage Form .....	No. 8-32 x 1/4 in.	
21	Coin Return Cup .....	C-827	
22	Coin Return Door .....	P-7493	

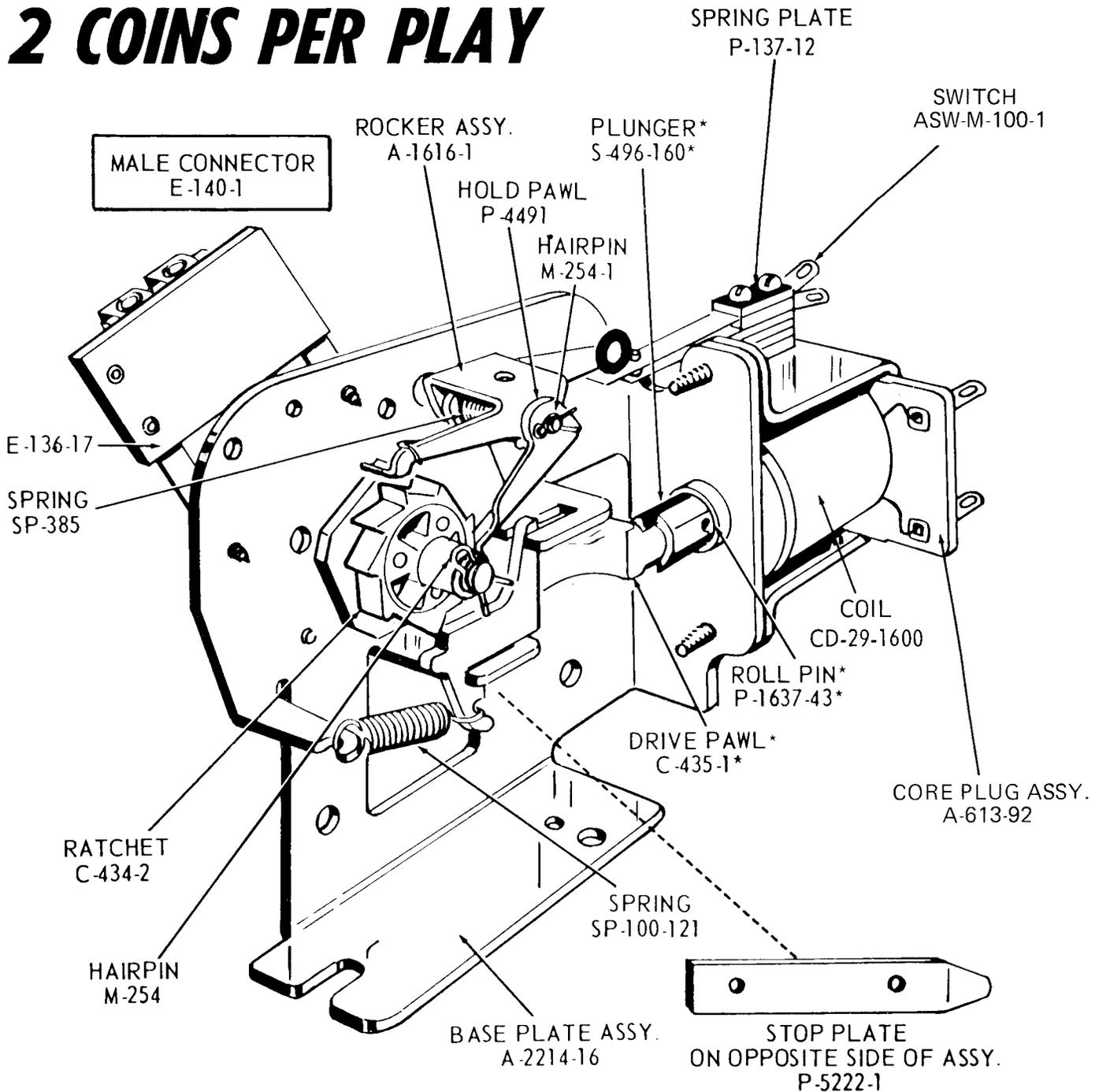
**FASTENERS**

Order nuts, screws, washers, not listed,  
by name or description  
with reference to part fastener secures.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ALTERNATOR UNITS

## 2 COINS PER PLAY



\*Starred components constitute Drive Pawl Assy. AS-2293-2 and may be purchased separately or as complete Assy. AS-2293-2.

### SCREWS, WASHERS

Screws and washers should be ordered by name or description with reference to (a) name of game, (b) Alternator, (c) part which fastener secures.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ALTERNATOR UNITS

## *2 COINS PER PLAY*

**SKYROCKET through\* EL TORO . . . . . AS-1900-123**

As illustrated, page 15

**LITTLE JOE, through\* OLD CHICAGO . AS-1900-146**

Same as AS-1900-147,  
described on page 18, except

Ratchet . . . . . C-704-2

Spring, Extension  
(ITEM 15) . . . . . SP-100-80

**CAPT. FANTASTIC . . . . . AS-1900-185**

Same as AS-1900-146, above, except

Drive Pawl Assy. . . . . AS-2293-5

Drive Pawl . . . . . C-435-6

Plunger . . . . . S-496-160

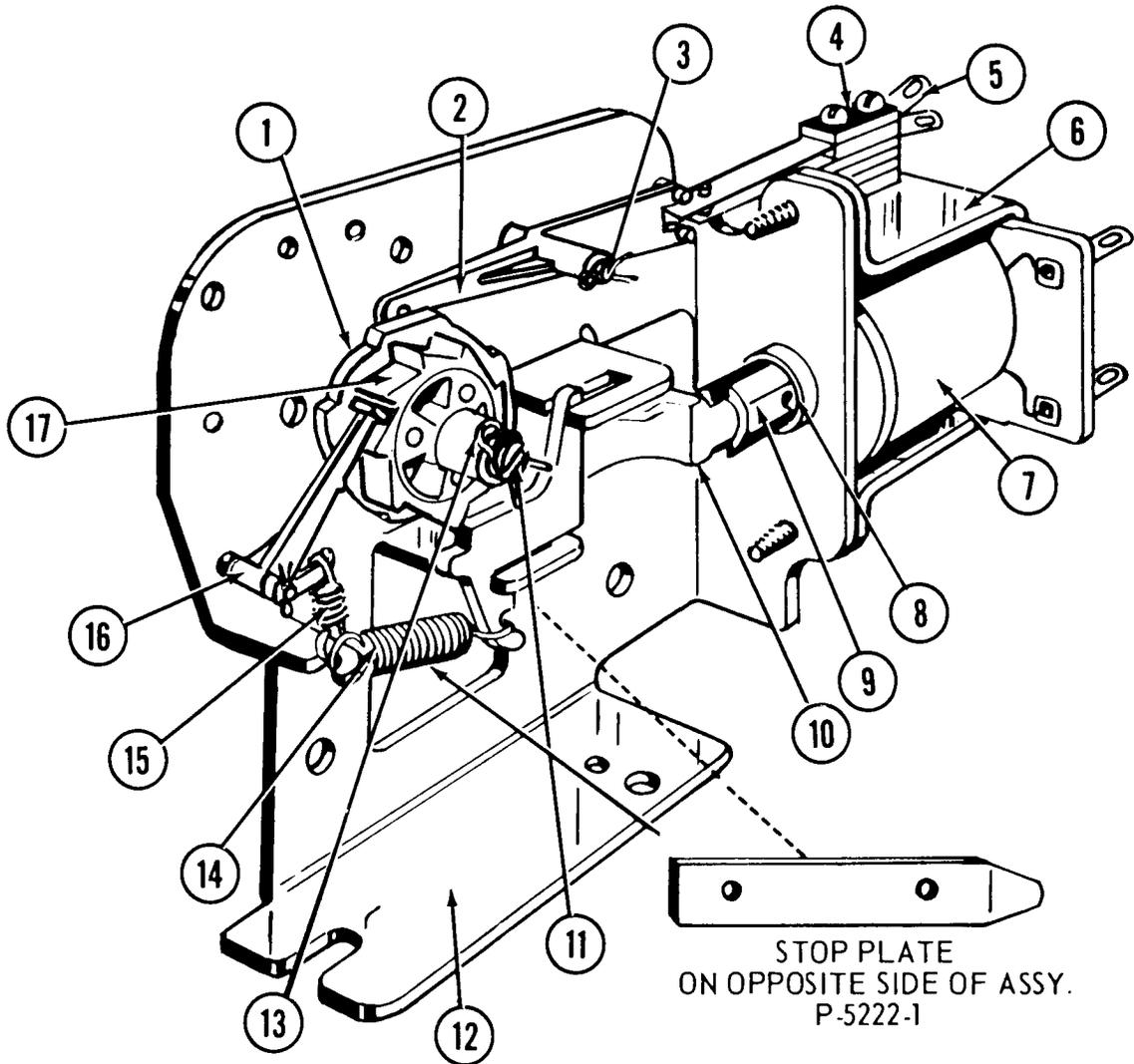
Roll Pin. . . . . P-1637-43

Washer (Disc) . . . . . P-801-35

\*See chronological list of games, page 1.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ALTERNATOR UNITS 3 COINS PER PLAY



WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# ALTERNATOR UNIT

## 3 COINS PER PLAY

ZIP-A-DOO through\*\*\* EL TORO ..... AS-1900-122

As illustrated, page 17  
with variations from AS-1900-147 noted  
in listing below.

LITTLE JOE, later games\*\*\* ..... AS-1900-147

As illustrated, page 17  
with variations from AS-1900-147 noted  
in listing below

### ADDED TO AS-1900-147

Connector,

Female ..... E-136-17

Male ..... E-140-2

### ① NOT VISIBLE AT POSITION 1 ARE:

(a) **Between Ratchet and Base Plate:**

Bushing ..... S-231-730

(b) **Back of Base Plate**

Washer, Plain

In AS-1900-122 ..... PW-8-10

In AS-1900-147 ..... PW-6-12

Elastic Stop Nut ..... M-319-6

② Rocker Arm ..... C-703-1

③ Hairpin Washer ..... M-254-1

**Also used with Hold Pawl**

④ Switch Plate (Spring) ..... P-137-13

⑤ Switch ..... ASW-M-100-1

⑥ Coil Bracket Assy. .... A-613-95

⑦ Coil ..... CD-29-1600

⑧ Roll Pin\*† ..... P-1637-43\*†

⑨ Plunger

In AS-1900-122 ..... S-496-181\*

In AS-1900-147 ..... S-496-160†

⑩ Drive Pawl

In AS-1900-122 ..... C-435-7\*

In AS-1900-147 ..... C-435-6†

⑪ Shoulder Stud ..... S-2028

⑫ Base Plate Assy.

In AS-1900-122 ..... A-2214-28

In AS-1900-147 ..... A-2214-31

⑬ Hairpin Washer ..... M-254

⑭ Spring, Extension ..... SP-100-121

⑮ Spring, Extension ..... SP-100-258

⑯ Hold Pawl ..... C-708

⑰ Ratchet ..... C-704-1

\*Single-starred components

constitute Drive Pawl Assy. AS-2293-6

and may be purchased separately

or as complete Assy.

† Dagger-referenced components

constitute Drive Pawl Assy. AS-2293-5

and may be purchased separately

or as complete Assy.

\*\*\*See chronological list of games, page 1

### SCREWS, WASHERS

Order by name or description

with reference to

(a) Assy. No.,

(b) Part which fastener secures.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# INTERNATIONAL COIN-MECHANISM DATA

## Listed alphabetically by nation

Parts listed in following pages are specialized to particular nations and coins in FIREBALL and later games\*. Specialized coin-mechanism parts, MARINER and earlier games\*, may be ordered by name or description with reference to nation, coin, name of game. Availability of earlier parts is not guaranteed. Other coin-mechanism parts appear on pages 7-20.

### AUSTRALIA

All items refer to 20c coin

Coin Drop Window ..... C-826-18  
 Coin Entry Plate ..... P-7601-12  
 Coin Guide ..... P-6694-1  
**Also see item 25, page 12**  
 Coin Guide Spacer ..... NOT USED  
 Coin Slide Assy. .... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy. .... AS-2744  
 Coin Switch ..... E-108-86  
 Coin Switch Wire ..... M-666-13  
 Retaining Ring ..... P-3389-6  
 Coin Wire ..... M-1504-2  
 Slug Rejector ..... M-1400-44

### AUSTRIA

Coin Drop Window  
 2 x 1S ..... C-826-41  
 1 x 5S ..... C-826-42  
 1 x 10S ..... C-826-43  
 Coin Entry Plate  
 1S ..... P-7601-5  
 5S ..... P-7601-6  
 10S ..... P-7601-9  
 Coin Guide  
 ANY ABOVE COIN ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer  
 1S ..... P-6431-1  
 5S ..... P-6431-3  
 10S ..... P-6431-6  
 Coin Slide Assy.  
 ANY ABOVE COIN ..... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy.  
 ANY ABOVE COIN ..... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire  
 ANY ABOVE COIN ..... M-1504  
 Slug Rejector  
 1S ..... M-1400-36  
 5S ..... M-1400-39  
 10S ..... M-1400-141

### BELGIUM

Coin Drop Window  
 1 PLAY  
 2 x 5 FR ..... C-826-89  
  
 1 PLAY  
 10 FR ..... C-826-88  
 Coin Entry Plate  
 5 FR ..... P-7601-4  
 10 FR ..... P-7601-14  
 Coin Guide  
 EITHER ABOVE COIN ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer  
 5 FR ..... P-6431-3  
 10 FR ..... P-6431-6  
 Coin Slide Assy.  
 EITHER ABOVE COIN ..... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy.  
 EITHER ABOVE COIN ..... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire  
 EITHER ABOVE COIN ..... M-1504  
 Slug Rejector  
 5 FR ..... M-1400-10  
 10 FR ..... M-1400-52

### DENMARK

All items refer to 1 KR. coin  
 Coin Drop Window  
 1 PLAY  
 1 KR ..... C-826-72  
 Coin Entry Plate ..... P-7601-9  
 Coin Guide ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer ..... P-6431-6  
 Coin Slide Assy. .... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy. .... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire ..... M-1504  
 Slug Rejector ..... NOT SUPPLIED

### ENGLAND

See UNITED KINGDOM

### FINLAND

All items refer to 1 MARKKA coin

Coin Drop Window ..... C-826-40  
 Coin Entry Plate ..... P-7601-6  
 Coin Guide ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer ..... P-6431-3  
 Coin Slide Assy. .... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy. .... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire ..... M-1504  
 Slug Rejector ..... NOT SUPPLIED

### FRANCE

All items refer to 1 FR. coin

Coin Drop Window  
 2 PLAYS  
 1 FR ..... C-826-71  
 Coin Entry Plate ..... P-7601-6  
 Coin Guide ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer ..... P-6431-3  
 Coin Slide Assy. .... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy. .... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire ..... M-1504  
 Slug Rejector ..... NOT SUPPLIED

### GERMANY

Coin Drop Window  
 1 PLAY  
 50 PF ..... C-826-65  
  
 3 PLAYS  
 1 DM ..... C-826-66  
  
 7 PLAYS  
 2 DM ..... C-826-75  
 Coin Entry Plate  
 50 PF ..... P-7601-1  
 1 DM ..... P-7601-6  
 2 DM ..... P-7601-14  
 Coin Guide  
 ANY ABOVE COIN ..... P-6694  
**Also see item 25, page 12**  
 Coin Guide Spacer  
 50 PF ..... P-6431-4  
 1 DM ..... P-6431-3  
 2 DM ..... P-6431-6  
 Coin Slide Assy.  
 50 PF ..... A-3716-2  
 1 DM ..... A-3716-3  
 2 DM ..... A-3716-1  
**Also see item 7, page 12**  
 Coin Switch Assy.  
 ANY ABOVE COIN ..... AS-2744  
 Detailed under AUSTRALIA  
 Coin Wire  
 ANY ABOVE COIN ..... M-1504  
 Slug Rejector ..... NOT SUPPLIED

\*See chronological list of games, page 1.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# INTERNATIONAL COIN-MECHANISM DATA

## HOLLAND

See NETHERLANDS

## IRELAND

See UNITED KINGDOM

## JAPAN

Coin Drop Window

50 YEN  
1 PLAY ..... C-826-55

100 YEN  
3 PLAYS ..... C-826-55

Coin Entry Plate

50 YEN ..... P-7601-16  
100 YEN ..... P-7601-5

Coin Guide

EITHER ABOVE COIN ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer

EITHER ABOVE COIN ..... P-6431-1

Coin Slide Assy.

EITHER ABOVE COIN ..... A-3716-1

**Also see item 7, page 12**

Coin Switch Assy.

EITHER ABOVE COIN ..... AS-2744

Detailed under AUSTRALIA

Coin Wire

EITHER ABOVE COIN ..... M-1504

Slug Rejector

50 YEN ..... M-1400-34

100 YEN ..... M-1400-38

## NETHERLANDS

Coin Drop Window

25 CENT ..... C-826-11

4 PLAYS

1 FLORIN ..... C-826-78

Coin Entry Plate

25 CENT ..... P-7601-1

1 FLORIN ..... P-7601-4

Coin Guide

EITHER ABOVE COIN ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer

25 CENT ..... P-6431-3

1 FLORIN ..... P-6431-10

Coin Slide Assy.

EITHER ABOVE COIN ..... A-3716

**Also see item 7, page 12**

Coin Switch Assy.

EITHER ABOVE COIN ..... AS-2744

Detailed under AUSTRALIA

Coin Wire

EITHER ABOVE COIN ..... M-1504

Slug Rejector

25 CENT ..... M-1400-78

1 FLORIN ..... M-1400-106

## NORWAY

Coin Drop Window

1 PLAY  
50 ORE ..... C-826-73

2 PLAYS

1 KR. .... C-826-69

Coin Entry Plate

50 ORE ..... P-7601-2

1 KR. .... P-7601-4

Coin Guide

EITHER ABOVE COIN ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer

50 ORE ..... P-6431-1

1 KR. .... P-6431-5

Coin Slide Assy.

EITHER ABOVE COIN ..... A-3716-1

**Also see item 7, page 12**

Coin Switch Assy.

EITHER ABOVE COIN ..... AS-2744

Detailed under AUSTRALIA

Coin Wire

50 ORE ..... M-1504-1

1 KR. .... M-1504

Slug Rejector ..... NOT SUPPLIED

## PORTUGAL

**All listings refer to 5 ESCUDOS coin**

Coin Drop Window

1 PLAY  
5 ESCUDOS ..... C-826-90

Coin Entry Plate ..... P-7601-4

Coin Guide ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer ..... P-6431-3

Coin Slide Assy. .... A-3716-1

**Also see item 7, page 12**

Coin Switch Assy. .... AS-2744

Detailed under AUSTRALIA

Coin Wire ..... M-1504

Slug Rejector ..... M-1400-90

## SWEDEN

**All listings refer to 1 KR. coin**

Coin Drop Window

2 PLAYS  
1 KR. .... C-826-89

Coin Entry Plate ..... P-7601-4

Coin Guide ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer ..... P-6431-3

Coin Slide Assy. .... A-3716-4

**Also see item 7, page 12**

Coin Switch Assy. .... AS-2744

Detailed under AUSTRALIA

Coin Wire ..... M-1504

Slug Rejector ..... NOT SUPPLIED

## SWITZERLAND

Coin Drop Window

2 PLAYS  
1 FR. .... C-826-79

4 PLAYS

2 FR. .... C-826-80

12 PLAYS

5 FR. .... C-826-67

Coin Entry Plate

1 FR. .... P-7601-6

2 FR. .... P-7601-7

5 FR. .... P-7601-13

Coin Guide

1 FR. .... P-6694

2 FR. .... P-6694

5 FR. .... P-6694-1

**Also see item 25, page 12**

Coin Guide Spacer

1 FR. .... P-6431-3

2 FR. .... P-6431-6

5 FR. .... NOT USED

Coin Slide Assy.

1 FR. .... A-3716-1

2 FR. .... A-3716-1

5 FR. .... A-3716-5

**Also see item 7, page 12**

Coin Switch Assy.

ANY ABOVE COIN ..... AS-2744

Detailed under AUSTRALIA

Coin Wire

1 FR. .... M-1504

2 FR. .... M-1504-2

5 FR. .... M-1504-2

Slug Rejector

1 FR. .... M-1400-35

2 FR. .... M-1400-110

5 FR. .... M-1400-147

## UNITED KINGDOM

Coin Drop Window

1 PLAY  
5 N.P. OR 1/ ..... C-826-76

2 PLAYS

10 N.P. OR 2/ ..... C-826-77

Coin Entry Plate

5 N.P. OR 1/ ..... P-7601-6

10 N.P. OR 2/ ..... P-7601-12

Coin Guide

5 N.P. OR 1/ ..... P-6694

10 N.P. OR 2/ ..... P-6694-1

**Also see item 25, page 12**

Coin Guide Spacer

5 N.P. OR 1/ ..... P-6431-3

10 N.P. OR 2/ ..... NOT USED

Coin Slide Assy.

ANY ABOVE COINS ..... A-3716-1

**Also see item 7, page 12**

Coin Switch Assy.

ANY ABOVE COIN ..... AS-2744

Detailed under AUSTRALIA

Coin Wire

5 N.P. OR 1/ ..... M-1504

10 N.P. OR 2/ ..... M-1504-2

Coin Rejector

5 N.P. OR 1/ ..... M-1400-71

10 N.P. OR 2/ ..... M-1400-80

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# INTERNATIONAL COIN-MECHANISM DATA

## UNITED STATES

All listings refer to Quarter Dollar coin\*

Coin Drop Window

2 PLAYS

QUARTER ..... C-826-50

Coin Entry Plate ..... P-7601-4

Coin Guide ..... P-6694

**Also see item 25, page 12**

Coin Guide Spacer ..... P-6431-3

Coin Slide Assy. .... A-3716-6

**Also see item 7, page 12**

Coin Switch Assy. .... AS-2744

Detailed under AUSTRALIA

Coin Wire ..... M-1504

Slug Rejector ..... M-1400-62

\*Parts for other U.S. coins may be ordered by name or description with reference to coin.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# CIRCUIT CONTROL COMPONENTS



# CIRCUIT CONTROL COMPONENTS

**ELECTRONIC PARTS: See Page 204**

**Flasher Unit . . . . . 107, 108**

**Race Unit . . . . . 109**

## **Relays,**

**“G” Type . . . . . 49-91**

**Trip . . . . . 43-48**

**Score Motor Assys. . . . . 29-42**

**Spinner Unit . . . . . 109**

## **Stepping Units,**

**Continuous . . . . . 97, 98**

**Full Step Reset . . . . . 99-102**

**Match (00-90) . . . . . 93-95**

**Single Step Reset . . . . . 103-106**

**Switches . . . . . 25, 26**

**Switch Actuators . . . . . 27**

## **TRANSFORMER:**

**SKYROCKET through\***  
**OLD CHICAGO . . . . . E-122-195**

**CAPT. FANTASTIC, later games**  
**50 cycles . . . . . E-122-123**  
**60 cycles . . . . . E-122-124**

# SWITCHES

Illustrated in the following pages are switches which are not specifically called out elsewhere in the catalog. If part number is not known for a desired switch, order by name with reference to (a) name of game, (b) name of unit on which switch is used, (c) function of switch.

## BREAK SWITCHES

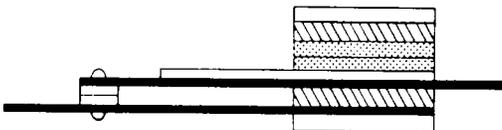
NORMALLY CLOSED



ASW-A2-4  
ROLLOVER BUTTON



ASW-A2-26  
ROLLOVER WIRE

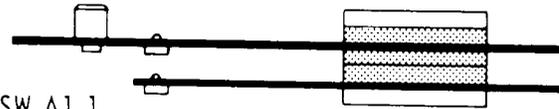


ASW-A20-9  
MUSHROOM BUMPER

CONTINUED  
ON  
NEXT PAGE

## MAKE SWITCHES

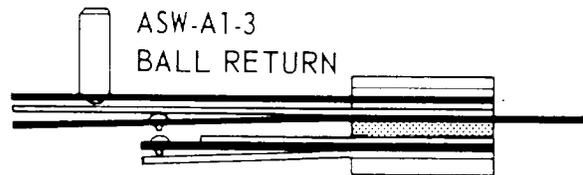
NORMALLY OPEN



ASW-A1-1  
HOLE KICKER



ASW-A1-2  
SLINGSHOT KICKER SCORING



ASW-A1-3  
BALL RETURN



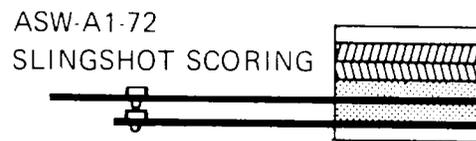
ASW-A1-4  
ROLLOVER BUTTON



ASW-A1-5  
ROLLOVER WIRE



ASW-A1-29  
ROLLOVER WIRE



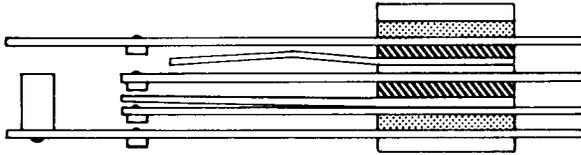
ASW-A1-72  
SLINGSHOT SCORING

SHOWN IN CLOSED POSITION  
NORMALLY HELD OPEN  
BY SLINGSHOT KICKER ARM

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SWITCHES

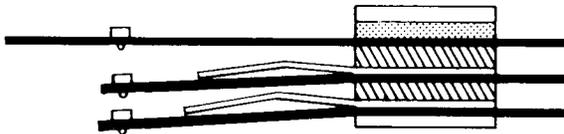
## *MAKE-BEFORE-BREAK SWITCH*



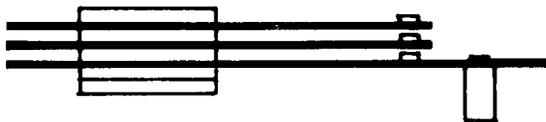
ASW-A12-3

## *MAKE-MAKE SWITCHES*

NORMALLY OPEN



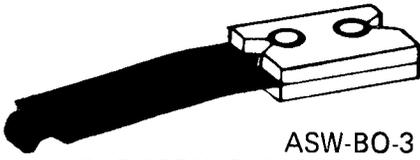
ASW-A11-2  
ROLLOVER WIRE



ASW-A11-7

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

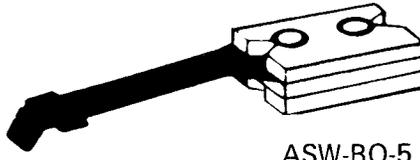
# SWITCH ACTUATORS



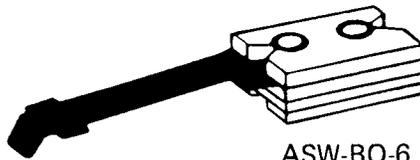
ASW-BO-3  
(LEAF SPRING .008 THICK)



ASW-BO-4  
(LEAF SPRING .010 THICK)



ASW-BO-5



ASW-BO-6



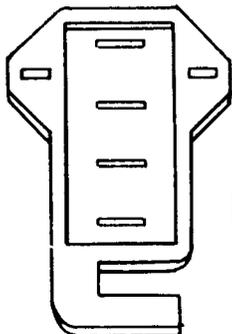
C-709



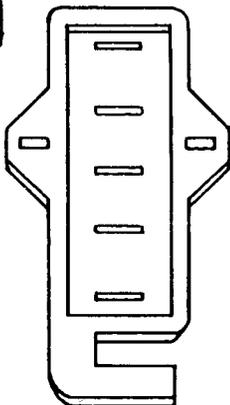
C-709-1



C-709-2



C-812-4



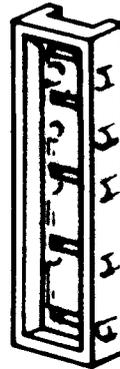
C-812-5



C-769



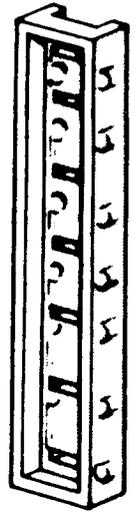
C-769-1



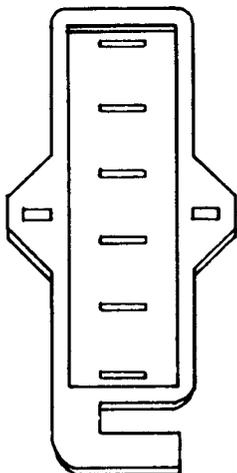
C-769-2



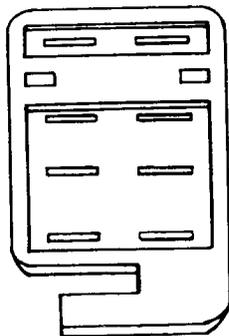
C-769-3



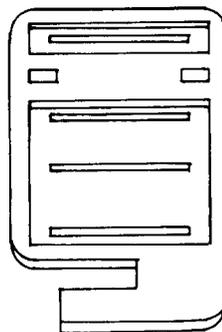
C-769-4



C-812-6



C-813



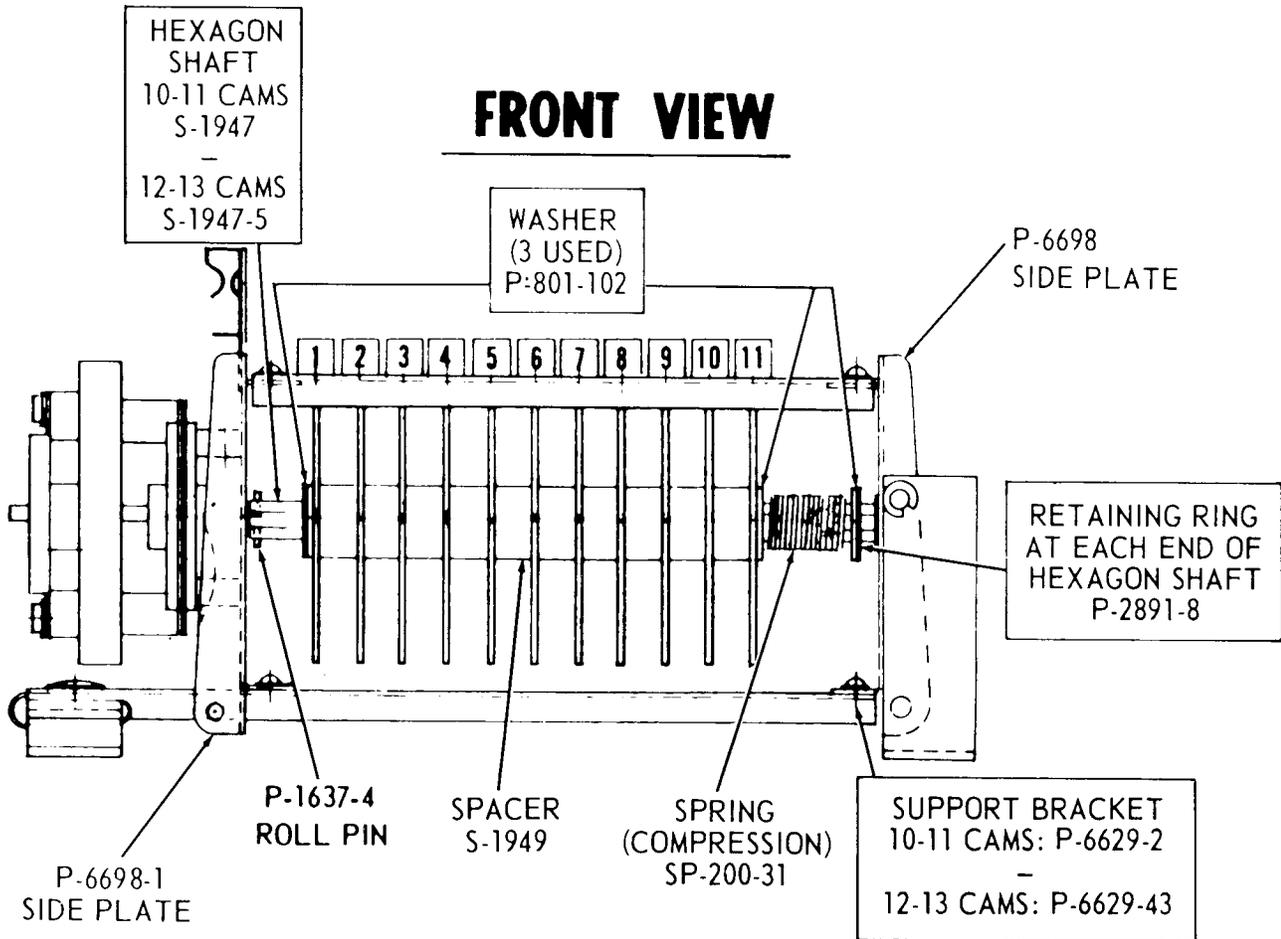
C-813-1

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

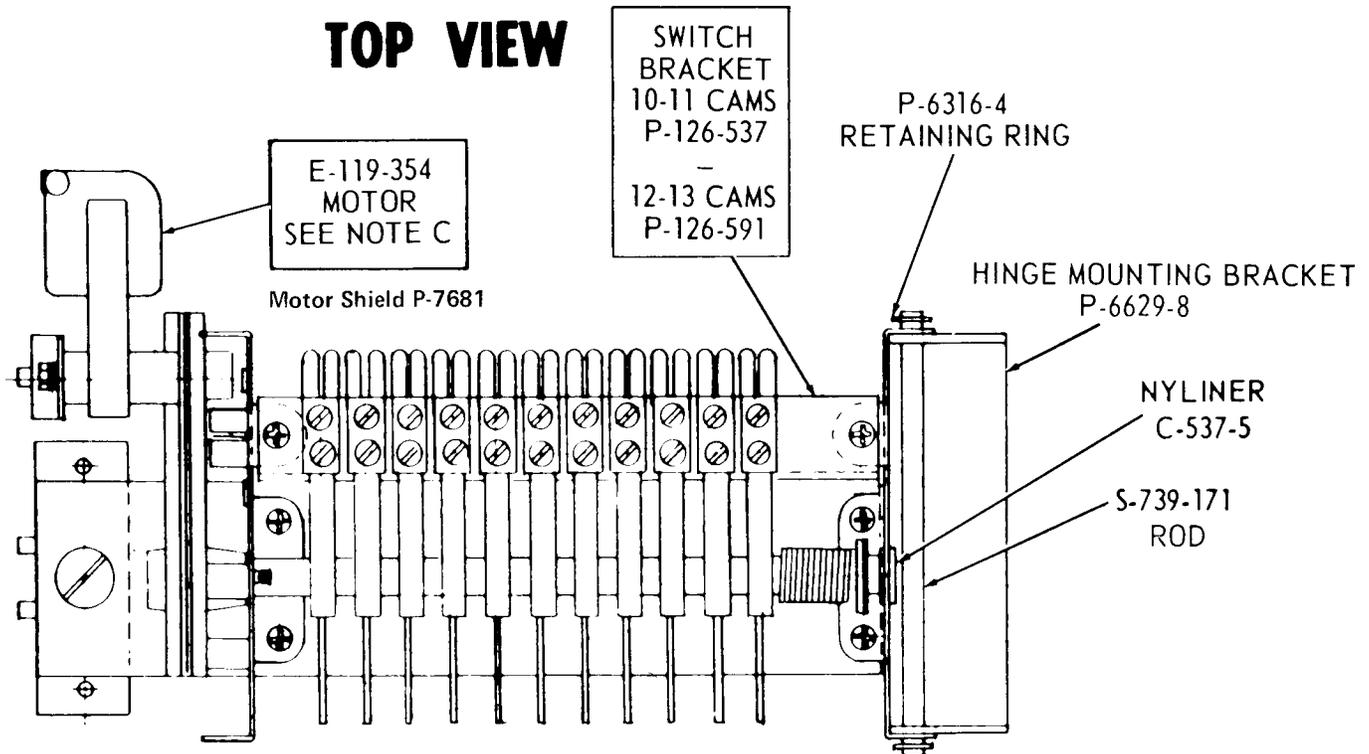


# SCORE MOTOR ASSYS.

## FRONT VIEW

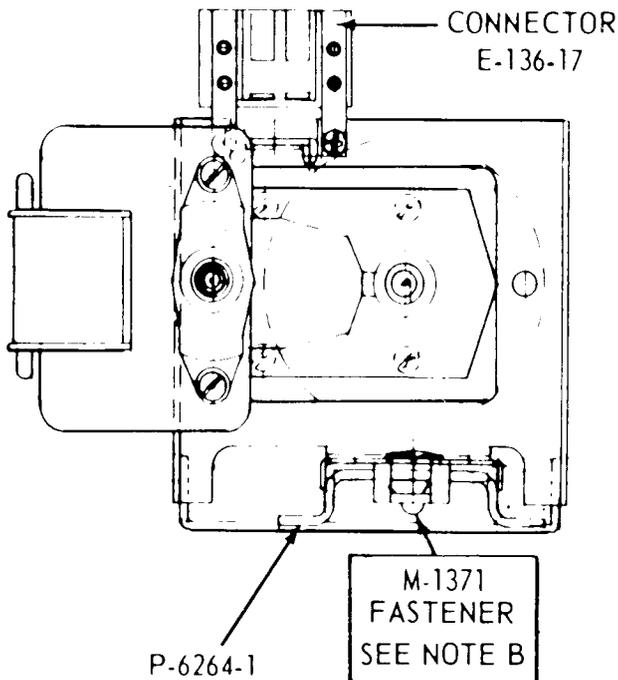


## TOP VIEW



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR ASSYS.



LOCK MOUNTING BRACKET

## END VIEW

## CAM

See page 31.

## SCREW

Order by name or description with reference to (a) name of game, (b) Score Motor Assy., (c) part which screw secures and (for switch screws) (d) related Cam number, counting from Motor end of Assy.

## SWITCH

See page 31.

## SWITCH ACTUATOR

See page 27.

## SWITCH PLATE (SPRING)

P-137-5, unless otherwise indicated.

### NOTE B

Turn ¼ turn clockwise to release, ¼ turn clockwise to secure.

### NOTE C

Motor E-119-460 is used in areas operating on 50 cycles current

Motor E-119-460 is recommended replacement for Motors E-119-411 and E-119-372, formerly used in 50 cycles areas.

### E-119-354 MOTOR PARTS

Gear, First . . . . .	G-4111-1
Gear, Intermediate (Double Gears) . . . . .	G-5818-1
Gear & Shaft . . . . .	G-7300-1 X 1/4
Rotor & Shaft . . . . .	ZRST-1415-31-9
Stator . . . . .	ZS-1707-2531

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

Switching components are listed from Motor end of Score Motor Assy.,  
from top to bottom of related Cam.

## SKYROCKET

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 3 below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-34-110
CAM 2	P-1365-577
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 3	P-1365-564
Switching same as with CAM 2	
CAM 4	P-1365-565
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Next below	ASW-C2X-1
Next below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-2
Middle	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 9	P-1365-570
Switching same as with CAM 2	
CAM 10	P-1365-546
Switch,	
Top 3	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-28-110
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MS-540-8-110
Switch Plate (11 used)	P-137-5

## FOUR MILLION B.C.

CAM 1	P-1365-537
Switch,	
Top 2	ASW-C3X-2
Next below	ASW-C3X-3
Next below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-36-110
CAM 2	P-1365-577
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 3	P-1365-564
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 4	P-1365-565
Switch,	
Top 3	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-1
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Next below	ASW-C2X-1
Next 3 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-36-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 9	P-1365-570
Switching same with CAM 2	
CAM 10	P-1365-546
Switch,	
Top	ASW-C2X-2
Middle	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 11	P-1365-574
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw	MS-540-14-110
Switch Plate (11 used)	P-137-5

## EXPRESSWAY

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 3 below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-34-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 3	P-1365-564
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 4	P-1365-565
Switching same as with CAM 2	
CAM 5	P-1365-566
Switch	ASW-C2X
Switch Screw	MS-540-10-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MD-540-14-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-22-110
CAM 8	P-1365-569
Switch,	
Top 3	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-24-110
CAM 9	P-1365-570
Switch	ASW-C1X-1
Switch Screw	MS-540-8-110
CAM 10	P-1365-546
Switch,	
Top	ASW-C2-X-1
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-18-110
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MS-540-8-110
Switch Plate (11 used)	P-137-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## SEA RAY

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X3  
   Next 3 below ..... ASW-C2X-2  
   Bottom ..... ASW-C2X-3  
   Switch Screw ..... MS-540-34-110  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 3 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-14-110  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 3  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-1  
   Middle ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-18-110  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top 2 ..... ASW-C2X-2  
   Bottom ..... ASW-C2X  
   Switch Screw ..... MS-540-20-110  
 CAM 8 ..... P-1365-569  
 Switching same as with CAM 6  
 CAM 9 ..... P-1365-570  
 Switching same as with CAM 3  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top 3 ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-28-110  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C1X-19  
   Switch Screw ..... MS-540-8-110  
 Switch Plate (11 used) ..... P-137-5

## MARINER

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next 2 below ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Bottom ..... ASW-C1X  
   Switch Screw ..... MS-540-32-110  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 3 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-18-110  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 2  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-1  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-30-110  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 8 ..... P-1365-569  
 Switching same as in CAM 6  
 CAM 9 ..... P-1365-570  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-14-110  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top 3 ..... ASW-C2X-2  
   Bottom ..... ASW-C2X  
   Switch Screw ..... MS-540-24-110  
 CAM 11 ..... P-1365-574  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-19  
   Switch Screw ..... MS-540-14-110  
 Switch Plate (11 used) ..... P-137-5

## FIREBALL

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next below ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Bottom ..... ASW-C1X  
   Switch Screw ..... MS-540-26-110  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-14-110  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-18-110  
 CAM 4 ..... P-1365-565  
 Switch,  
   Top 4 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-30-110  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-1  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top 2 ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-34-110  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-1  
   Middle ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-18-110  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 2 ..... ASW-C2X-2  
   Next below ..... ASW-C2X-1  
   Bottom ..... ASW-C1X-1  
   Switch Screw ..... MS-540-24-110  
 CAM 9 ..... P-1365-570  
 Switching same as with CAM 2  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top ..... ASW-C2X-2  
   Bottom ..... ASW-C2X  
   Switch Screw ..... MS-540-14-110  
 CAM 11 ..... P-1365-574  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-19  
   Switch Screw ..... MS-540-14-110  
 Switch Plate (11 used) ..... P-137-5

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## EL TORO

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 2 below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-30-110
CAM 2	P-1365-577
Switch	ASW-C1X-1
Switch Screw	MS-540-8-110
CAM 3	P-1365-564
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 4	P-1365-565
Switching same as with CAM 2	
CAM 5	P-1365-566
Switch	ASW-C2X
Switch Screw	MS-540-8-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-14-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-12-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-20-110
CAM 9	NOT USED
CAM 10	P-1365-546
Switching same as with CAM 5	
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MS-540-8-110
Switch Plate (10 used)	P-137-5

## LITTLE JOE

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 2 below	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X
Switch Screw (2)	MS-540-32-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-20-110
CAM 3	P-1365-564
Switching same as with CAM 2	
CAM 4	P-1365-565
Switch,	
Top 3	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-2
Middle	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-18-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Next Below	ASW-C2X-1
Next Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-18-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 9	P-1365-570
Switch	ASW-C1X-1
Switch Screw	MS-540-8-110
CAM 10	P-1365-546
Switch,	
Top 2	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-20-110
CAM 11	P-1365-547
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw	MS-540-14-110
Switch Plate (11 used)	P-137-5

## SPACE TIME

CAM 1	P-1365-537
Switch	
Top	ASW-C3X-3
Next 2 below	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X
Switch Screw (2)	MS-540-32-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-20-110
CAM 3	P-1365-564
Switching same as with CAM 2	
CAM 4	P-1365-565
Switch,	
Top 3	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-1
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 6	P-1365-567
Switching same as with CAM 5	
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-2
Next Below	ASW-C2X-1
Next Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Next Below	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 9	P-1365-570
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 10	P-1365-546
Switch,	
Top 3	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-26-110
CAM 11	P-1365-574
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw	MS-540-14-110

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# SCORE MOTOR CAMS & SWITCHES

## MONTE CARLO

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-2
Next Below	ASW-C3X-3
Next Below	ASW-C2X-12
Next Below	ASW-C2X-11
Bottom	ASW-C1X
Switch Screw (2)	MS-540-34-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-20-110
CAM 3	P-1365-564
Switch,	
Top 4	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-30-110
CAM 4	P-1365-565
Switching same as with CAM 3	
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-11
Next 3 Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-30-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-12
Next Below	ASW-C2X-11
Next 3 Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-36-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-11
Next 2 Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-24-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-12
Next Below	ASW-C2X-11
Next Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-30-110
CAM 9	P-1365-642
Switch	ASW-C1X-1
Switch Screw (2)	MS-540-8-110
CAM 10	P-1365-546
Switch,	
Top	ASW-C2X-12
Middle	ASW-C2X-11
Bottom	ASW-C1X-1
Switch Screw (2)	MS-540-18-110
CAM 11	P-1365-574
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw (2)	MS-540-14-110
CAM 12	P-1365-547
Switch,	
Top 2	ASW-C3X-2
Bottom	ASW-C3X-1
Switch Screw (2)	MS-540-24-110
Switch Plate (12 used)	P-137-5

## ODDS & EVENS

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 3 below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-34-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 3	P-1365-564
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 4	P-1365-565
Switching same as with CAM 3	
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-1
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-14-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-12-110
CAM 8	P-1365-569
Switch,	
Top 3	ASW-C2X-2
Next below	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-28-110
CAM 9	P-1365-570
Switch	ASW-C1X-1
Switch Screw	MS-540-8-110
CAM 10	P-1365-546
Switching same as with CAM 6	
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MS-540-8-110

## TIME ZONE

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 2 below	ASW-C2X-2
Bottom	ASW-C2X-3
Switch Screw	MS-540-30-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 3	P-1365-564
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 4	P-1365-565
Switching same as with CAM 2	
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-1
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-2
Middle	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-1
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 8	P-1365-569
Switch,	
Top 2	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-20-110
CAM 9	P-1365-570
Switching same as with CAM 3	
CAM 10	P-1365-546
Switch,	
Top 3	ASW-C2X-2
Bottom	ASW-C2X
Switch Screw	MS-540-24-110
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MS-540-8-110
Switch Plate (11 used)	P-137-5

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## NIP-IT

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 3 below	ASW-C2X-12
Next below	ASW-C2X-11
Bottom	ASW-C1X
Switch Screw	MS-540-36-110
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-20-110
CAM 3	P-1365-564
Switching same as with CAM 2	
CAM 4	P-1365-565
Switch,	
Top 4	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-30-110
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-12
Next Below	ASW-C2X-11
Next 3 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-36-110
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-12
Next below	ASW-C2X-11
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-30-110
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-11
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-24-110
CAM 8	P-1365-569
Switch,	
Top 3	ASW-C2X-12
Next Below	ASW-C2X-11
Next Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-34-110
CAM 9	P-1365-570
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MS-540-14-110
CAM 10	P-1365-546
Switch,	
Top 3	ASW-C2X-12
Next Below	ASW-C2X-11
Bottom	ASW-C1X-1
Switch Screw	MS-540-28-110
CAM 11	P-1365-574
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw	MS-540-14-710
Switch Plate (11 used)	P-137-5

## HI-LO ACE

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next 4 below	ASW-C2X-12
Bottom	ASW-C2X-3
Switch Screw	MSSR-00540-1136
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MSSR-00540-1120
CAM 3	P-1365-564
Switch,	
Top	ASW-C1X-1
Bottom	ASW-C1X-2
Switch Screw	MSSR-00540-1114
CAM 4	P-1365-565
Switching same as with CAM 3	
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-11
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MSSR-00540-1120
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-12
Bottom	ASW-C2X
Switch Screw	MSSR-00540-1114
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-11
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw	MSSR-00540-1126
CAM 8	P-1365-569
Switch,	
Top 4	ASW-C2X-12
Bottom	ASW-C2X
Switch Screw	MSSR-00540-1130
CAM 9	P-1365-570
Switch	ASW-C1X-1
Switch Screw	MSSR-00540-1108
CAM 10	P-1365-546
Switching same as with CAM 6	
CAM 11	P-1365-574
Switch	ASW-C1X-19
Switch Screw	MSSR-00540-1108
CAM 12	P-1365-547
Switch,	
Top 2	ASW-C3X-2
Bottom	ASW-C3X-1
Switch Screw	MSSR-00540-1136
Switch Plate (12 used)	P-137-5

## CIRCUS

CAM 1	P-1365-537
Switch,	
Top	ASW-C3X-3
Next Below	ASW-C2X-12
Next Below	ASW-C2X-11
Bottom	ASW-C1X
Switch Screw (2)	MSSR-00540-1126
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-00540-1120
CAM 3	P-1365-564
Switch,	
Top 3	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-00540-1124
CAM 4	P-1365-565
Switching same as with CAM 3	
CAM 5	P-1365-566
Switch,	
Top	ASW-C2X-11
Middle	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-00540-1118
CAM 6	P-1365-567
Switch,	
Top	ASW-C2X-12
Next Below	ASW-C2X-11
Next 2 Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-00540-1130
CAM 7	P-1365-568
Switch,	
Top	ASW-C2X-11
Next 4 Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-00540-1136
CAM 8	P-1365-569
Switch,	
Top 3	ASW-C2X-12
Next Below	ASW-C2X-11
Next Below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1134
CAM 9 POSITION	
No cam or switching used	
CAM 10	P-1365-546
Switch	ASW-C2X
Switch Screw (2)	MSSR-00540-1110
CAM 11	P-1365-574
Switch,	
Top	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw (2)	MSSR-00540-1114
Switch Plate (10 used)	P-137-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# SCORE MOTOR CAMS & SWITCHES

## BIG SHOW

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Middle ..... ASW-C2X-12  
   Bottom ..... ASW-C2X-3  
 Switch Screw (2) ..... MSSR-00540-1124  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switching same as with CAM 2  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 2  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Middle ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 3 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 3 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 9 POSITION  
 Not used  
 CAM 10 ..... P-1365-546  
 Switch ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1110  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1108  
 Switch Plate (10 used) ..... P-137-5

## CHAMP

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next 2 below ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top 3 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 3  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-11  
   Middle ..... ASW-C2X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 4 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 3 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1134  
 CAM 9 ..... P-1365-570  
 Switch ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1108  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top ..... ASW-C2X-12  
   Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 11 ..... P-1365-574  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1114  
 Switch Plate (11 used) ..... P-137-5

## TWIN WIN

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next 2 below ..... ASW-C2X-12  
   Bottom ..... ASW-C2X-3  
 Switch Screw ..... MSSR-00540-1122  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 5 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 3  
 CAM 5 ..... P-1365-566  
 Switch ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1110  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-11  
   Middle ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 2 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 9 ..... P-1365-570  
 Switching same as with CAM 3  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top 3 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 11 ..... P-1365-574  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1120  
 Switch Plate (11 used) ..... P-137-5

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 ON  
 NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# SCORE MOTOR CAMS & SWITCHES

## SKY KINGS

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-C3X-3  
 Next 4 below ..... ASW-C2X-12  
 Bottom ..... ASW-C2X-3  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 4 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 3 ..... P-1365-564  
 Switch,  
 Top 2 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 4 ..... P-1365-565  
 Switch;  
 Top 3 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 5 ..... P-1365-566  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top ..... ASW-C2X-12  
 Middle ..... ASW-C2X-11  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 7 ..... P-1365-568  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 4 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 9 ..... P-1365-570  
 Switch,  
 Top ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1108  
 Switch Plate (11 used) ..... P-137-5

## AMIGO

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-C3X-3  
 Next 2 below ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X  
 Switch Screw (2) ..... MSSR-00540-1132  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 2 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switch,  
 Top 3 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 4 ..... P-1365-565  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 5 ..... P-1365-566  
 Switch,  
 Top ..... ASW-C2X-11  
 Middle ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switch,  
 Top ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next 4 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1142  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 3 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1134  
 CAM 9 ..... P-1365-570  
 Switch ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1108  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top ..... ASW-C2X-12  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 11 ..... P-1365-574  
 Switch,  
 Top ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1114  
 Switch Plate (11 used) ..... P-137-5

## DELTA QUEEN

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-C3X-3  
 Next 5 below ..... ASW-C2X-12  
 Bottom ..... ASW-C2X-3  
 Switch Screw (2) ..... MSSR-00540-1142  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 4 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 3 ..... P-1365-564  
 Switch,  
 Top ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 2  
 CAM 5 ..... P-1365-566  
 Switch,  
 Top ..... ASW-C2X-12  
 Next Below ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 5 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1142  
 CAM 9 ..... P-1365-570  
 Switch,  
 Top 2 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1108  
 CAM 12 ..... P-1365-642  
 Switching same as with CAM 10  
 Switch Plate (12 used) ..... P-137-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## ROGO

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-C3X-3  
 Next 2 below ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X  
 Switch Screw (2) ..... MSSR-00540-1132  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 3 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1124  
 CAM 3 ..... P-1365-564  
 Switching same as with CAM 2  
 CAM 4 ..... P-1365-565  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1124  
 CAM 5 ..... P-1365-566  
 Switching same as with CAM 4  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switching same as with CAM 4  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 3 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1142  
 CAM 9 POSITION ..... NOT USED  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 11 ..... P-1365-574  
 Switch,  
 Top ..... ASW-C1X-2  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1114  
 Switch Plate (10 used) ..... P-137-5

## BON VOYAGE

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-C3X-2  
 Next below ..... ASW-C3X-3  
 Next 3 below ..... ASW-C2X-12  
 Bottom ..... ASW-C2X-3  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 2 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switch,  
 Top 5 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 3  
 CAM 5 ..... P-1365-566  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top ..... ASW-C2X-11  
 Middle ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 7 ..... P-1365-568  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 4 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 9 ..... P-1365-570  
 Switch,  
 Top 3 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top 2 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1108  
 Switch Plate (11 used) ..... P-137-5

## BOOMERANG

CAM 1 ..... P-1365-537  
 Switch,  
 Top ..... ASW-3X-3  
 Next below ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Bottom ..... ASW-C1X  
 Switch Screw (2) ..... MSSR-00540-1128  
 CAM 2 ..... P-1365-577  
 Switch,  
 Top 2 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switch,  
 Top 3 ..... ASW-C1X-2  
 Bottom ..... ASW-C1X  
 Switch Screw (2) ..... MSSR-00540-1126  
 CAM 4 ..... P-1365-565  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 3 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 5 ..... P-1365-566  
 Switch,  
 Top ..... ASW-C2X-11  
 Middle ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1120  
 CAM 6 ..... P-1365-567  
 Switch,  
 Top ..... ASW-C2X-12  
 Next Below ..... ASW-C2X-11  
 Next 2 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switch,  
 Top ..... ASW-C2X-11  
 Next 4 below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1136  
 CAM 8 ..... P-1365-569  
 Switch,  
 Top 3 ..... ASW-C2X-12  
 Next below ..... ASW-C2X-11  
 Next below ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1134  
 CAM 9 ..... P-1365-570  
 Switch ..... ASW-C1X-1  
 Switch Screw (2) ..... MSSR-00540-1108  
 CAM 10 ..... P-1365-546  
 Switch,  
 Top ..... ASW-C2X-12  
 Bottom ..... ASW-C2X  
 Switch Screw (2) ..... MSSR-00540-1114  
 CAM 11 ..... P-1365-574  
 Switch,  
 Top ..... ASW-C1X-2  
 Bottom ..... ASW-C1X-19  
 Switch Screw (2) ..... MSSR-00540-1114  
 Switch Plate (11 used) ..... P-137-5

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 NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# SCORE MOTOR CAMS & SWITCHES

## FLICKER

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Middle ..... ASW-C2X-12  
   Bottom ..... ASW-C2X-3  
 Switch Screw (2) ... MSSR-00540-1124  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switching same as with CAM 2  
 CAM 4 ..... P-1365-565  
 Switching same as with CAM 2  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1114  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Middle ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1120  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 3 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 3 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 9 ..... P-1365-570  
 Switch ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1110  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top ..... ASW-C2X-12  
   Bottom ..... ASW-C2X  
 Switch Screw (2) ... MSSR-00540-1114  
 CAM 11 ..... P-1365-574  
 Switch ..... C1X-19  
 Switch Screw (2) ... MSSR-00540-1108  
 Switch Plate (11) ..... P-137-5

## AIR ACES

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next Below ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Bottom ..... ASW-C1X  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 4 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top 3 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1128  
 CAM 4 ..... P-1365-565  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 3 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 5 ..... P-1365-566  
 Switch,  
   Top ..... ASW-C2X-11  
   Middle ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1120  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 7 ..... P-1365-568  
 Switching same as with CAM 4  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 3 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1134  
 CAM 9 ..... P-1365-564  
 Switch ..... ASW-C10-11  
 Switch Screw (2) ... MSSR-00540-1108  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top ..... ASW-C2X-12  
   Bottom ..... ASW-C2X  
 Switch Screw (2) ... MSSR-00540-1114  
 CAM 11 ..... P-1365-574  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-19  
 Switch Screw (2) ... MSSR-00540-1114  
 Switch Plate (11) ..... P-137-5

## KNOCKOUT

CAM 1 ..... P-1365-537  
 Switch,  
   Top ..... ASW-C3X-3  
   Next 2 below ..... ASW-C2X-12  
   Bottom ..... ASW-C2X-3  
 Switch Screw (2) ... MSSR-00540-1126  
 CAM 2 ..... P-1365-577  
 Switch,  
   Top 2 ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1120  
 CAM 3 ..... P-1365-564  
 Switch,  
   Top ..... ASW-C3X-2  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1126  
 CAM 4 ..... P-1365-565  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 2 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1126  
 CAM 5 ..... P-1365-566  
 Switching same as with CAM 4  
 CAM 6 ..... P-1365-567  
 Switch,  
   Top ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1126  
 CAM 7 ..... P-1365-568  
 Switch,  
   Top ..... ASW-C2X-11  
   Next 3 below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 8 ..... P-1365-569  
 Switch,  
   Top 2 ..... ASW-C2X-12  
   Next below ..... ASW-C2X-11  
   Next below ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1130  
 CAM 9 ..... P-1365-570  
 Switch,  
   Top ..... ASW-C1X-2  
   Bottom ..... ASW-C1X-1  
 Switch Screw (2) ... MSSR-00540-1114  
 CAM 10 ..... P-1365-546  
 Switch,  
   Top 2 ..... ASW-C2X-12  
   Bottom ..... ASW-C2X  
 Switch Screw (2) ... MSSR-00540-1120  
 CAM 11 ..... P-1365-574  
 Switch ..... ASW-C1X-19  
 Switch Screw (2) ... MSSR-00540-1108  
 Switch Plate (11 used) ..... P-137-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## WIZARD

CAM 1 ..... P-1365-537  
Switch,  
Top ..... ASW-C3X-3  
Next 3 below ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Bottom ..... ASW-C1X-10  
Switch Screw (2) ..... MSSR-00540-1140

CAM 2 ..... P-1365-577  
Switch,  
Top 2 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120

CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Next 4 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1144

CAM 4 ..... P-1365-565  
Switch,  
Top ..... ASW-C2X-11  
Next 5 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1144

CAM 5 ..... P-1365-566  
Switching same as with CAM 4

CAM 6 ..... P-1365-567  
Switch,  
Top ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Next 4 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1144

CAM 7 ..... P-1365-568  
Switching same as with CAM 4

CAM 8 ..... P-1365-569  
Switch,  
Top 2 ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Next below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1130

CAM 9 ..... P-1365-570  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1114

CAM 10 ..... P-1365-546  
Switch,  
Top 3 ..... ASW-C2X-12  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1126

CAM 11 ..... P-1365-574  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1114  
Switch Plate (11 used) ..... P-137-5

## HI-DEAL

CAM 1 ..... P-1365-537  
Switch,  
Top ..... ASW-C3X-3  
Next 5 below ..... ASW-C2X-12  
Bottom ..... ASW-C2X-3  
Switch Screw (2) ..... MSSR-00540-1146

CAM 2 ..... P-1365-577  
Switch,  
Top 4 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1132

CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Next 3 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1132

CAM 4 ..... P-1365-565  
Switching same as with CAM 3

CAM 5 ..... P-1365-566  
Switching same as with CAM 3

CAM 6 ..... P-1365-567  
Switch,  
Top ..... ASW-C3X-3  
Next below ..... ASW-C2X-11  
Next below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1126

CAM 7 ..... P-1365-568  
Switch,  
Top ..... ASW-C3X-2  
Middle ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120

CAM 8 ..... P-1365-569  
Switch,  
Top ..... ASW-C3X-3  
Next 5 below ..... ASW-C2X-12  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1144

CAM 9 ..... P-1365-570  
Switch ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1108

CAM 10 ..... P-1365-546  
Switch ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1110

CAM 11 ..... P-1365-574  
Switch ..... ASW-C1X-19  
Switch Screw (2) ..... MSSR-00540-1108

CAM 12 ..... P-1365-547  
Switch,  
Top 3 ..... ASW-C3X-2  
Bottom ..... ASW-C3X-1  
Switch Screw (2) ..... MSSR-00540-1132  
Switch Plate (12 used) ..... P-137-5

## BOW AND ARROW

CAM 1 ..... P-1365-537  
Switch,  
Top ..... ASW-C3X-3  
Next 2 below ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Bottom ..... ASW-C1X  
Switch Screw (2) ..... MSSR-00540-1132

CAM 2 ..... P-1365-577  
Switch,  
Top 5 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1136

CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Next 5 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1144

CAM 4 ..... P-1365-565  
Switch,  
Top ..... ASW-C2X-11  
Next 5 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1142

CAM 5 ..... P-1365-566  
Switch,  
Top ..... ASW-C2X-11  
Next 2 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1126

CAM 6 ..... P-1365-567  
Switch,  
Top ..... ASW-C3X-3  
Next below ..... ASW-C2X-11  
Next 2 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1132

CAM 7 ..... P-1365-568  
Switch,  
Top ..... ASW-C2X-11  
Next 3 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1130

CAM 8 ..... P-1365-569  
Switch,  
Top 4 ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Next below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1140

CAM 9 ..... P-1365-570  
Switch,  
Top 2 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120

CAM 10 ..... P-1365-546  
Switch,  
Top ..... ASW-C2X-12  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1114

CAM 11 ..... P-1365-574  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C1X-19  
Switch Screw (2) ..... MSSR-00540-1114

CAM 12 ..... P-1365-547  
Switch,  
Top ..... ASW-C3X-2  
Middle ..... ASW-C3X-3  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1122  
Switch Plate (12 used) ..... P-137-5

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**WHEN ORDERING PART,  
SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## FLIP-FLOP

CAM 1 ..... P-1365-537  
Switch,  
Top ..... ASW-C3X-3  
Next 4 below ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Bottom ..... ASW-C1X  
Switch Screw (2) ..... MSSR-00540-1142  
CAM 2 ..... P-1365-577  
Switch,  
Top 2 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120  
CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Next 4 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1138  
CAM 4 ..... P-1365-565  
Switch,  
Top ..... ASW-C2X-11  
Next 5 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1142  
CAM 5 ..... P-1365-566  
Switch,  
Top ..... ASW-C2X-11  
Next 3 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1130  
CAM 6 ..... P-1365-567  
Switch,  
Top ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Next 3 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1136  
CAM 7 ..... P-1365-568  
Switching same as with CAM 4  
CAM 8 ..... P-1365-569  
Switch,  
Top 3 ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Next below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1134  
CAM 9 ..... P-1365-570  
Switch ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1108  
CAM 10 ..... P-1365-546  
Switch,  
Top ..... ASW-C2X-12  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1114  
CAM 11 ..... P-1365-574  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C1X-19  
Switch Screw (2) ..... MSSR-00540-1114  
CAM 12 ..... P-1365-547  
Switch,  
Top 2 ..... ASW-C3X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1122  
Switch Plate (12 used) ..... P-137-5

## HOKUS POKUS

CAM 1 ..... P-1365-537  
Switch,  
Top ..... ASW-C3X-2  
Next below ..... ASW-C3X-3  
Next below ..... ASW-C2X-12  
Bottom ..... ASW-C2X-3  
Switch Screw (2) ..... MSSR-00540-1126  
CAM 2 ..... P-1365-577  
Switch,  
Top 2 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120  
CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Middle ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1122  
CAM 4 ..... P-1365-565  
Switch,  
Top ..... ASW-C2X-11  
Bottom ..... ASW-C1X-1  
Switch Screw ..... MSSR-00540-1116  
CAM 5 ..... P-1365-566  
Switch,  
Top ..... ASW-C3X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1116  
CAM 6 ..... P-1365-567  
Switch,  
Top 2 ..... ASW-C3X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1120  
CAM 7 ..... P-1365-568  
Switching same as with CAM 4  
CAM 8 ..... P-1365-569  
Switch,  
Top 2 ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1128  
CAM 9 ..... P-1365-789  
Switch ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1108  
CAM 10 ..... P-1365-546  
Switch ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1110  
CAM 11 ..... P-1365-574  
Switch ..... ASW-C1X-19  
Switch Screw (2) ..... MSSR-00540-1108  
Switch Plate (11) ..... P137-5

## OLD CHICAGO

CAM 1 ..... P-1365-537  
Switch,  
Top 2 ..... ASW-C3X-2  
Next below ..... ASW-C3X-3  
Bottom ..... ASW-C2X-2  
Switch Screw (2) ..... MSSR-00540-1134  
CAM 2 ..... P-1365-577  
Switch,  
Top 3 ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1124  
CAM 3 ..... P-1365-564  
Switch,  
Top ..... ASW-C3X-2  
Next 4 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1138  
CAM 4 ..... P-1365-565  
Switch,  
Top ..... ASW-C2X-11  
Next 3 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1130  
CAM 5 ..... P-1365-566  
Switch,  
Top ..... ASW-C2X-11  
Middle ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1118  
CAM 6 ..... P-1365-567  
Switch,  
Top 2 ..... ASW-C3X-2  
Next 2 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1132  
CAM 7 ..... P-1365-568  
Switch,  
Top ..... ASW-C2X-11  
Next 2 below ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1124  
CAM 8 ..... P-1365-569  
Switch,  
Top ..... ASW-C3X-3  
Next 2 below ..... ASW-C2X-12  
Next below ..... ASW-C2X-11  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1130  
CAM 9 ..... P-1365-570  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C1X-1  
Switch Screw (2) ..... MSSR-00540-1114  
CAM 10 ..... P-1365-546  
Switch,  
Top ..... ASW-C2X-12  
Bottom ..... ASW-C2X  
Switch Screw (2) ..... MSSR-00540-1114  
CAM 11 ..... P-1365-574  
Switch,  
Top ..... ASW-C1X-2  
Bottom ..... ASW-C1X-19  
Switch Screw (2) ..... MSSR-00540-1114  
CAM 12 ..... P-1365-564  
Switch ..... ASW-C-10-11  
Switch Screw (2) ..... MSSR-00540-1108  
Switch Plate (16) ..... P-137-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE MOTOR CAMS & SWITCHES

## CAPT. FANTASTIC

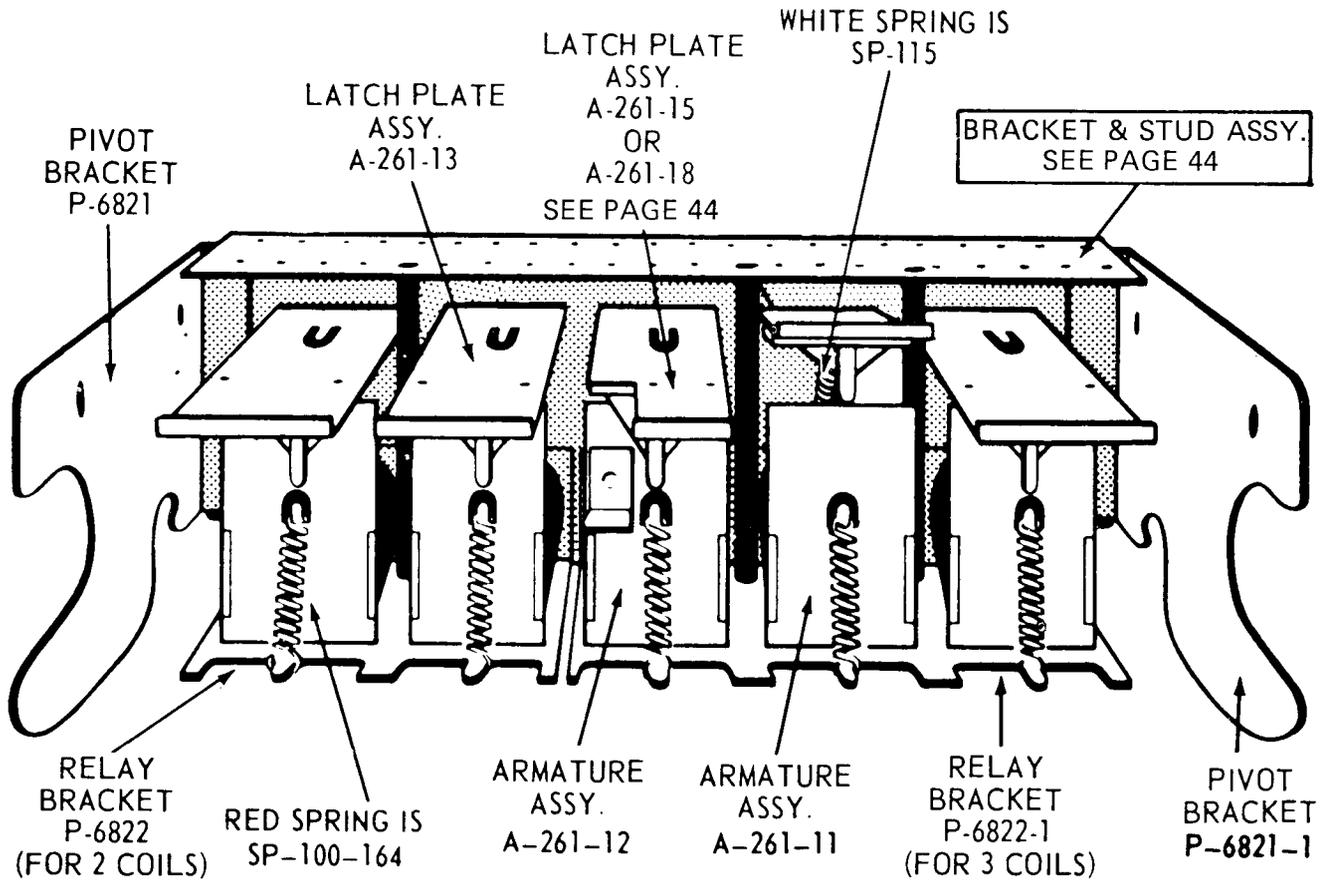
CAM 1	P-1365-537
Switch,	
Top 2	ASW-C3X-2
Next below	ASW-C3X-3
Next below	ASW-C2X-12
Bottom	ASW-C2X-3
Switch Screw (2)	MSSR-0054-1108
CAM 2	P-1365-577
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1120
CAM 3	P-1365-564
Switch,	
Top 2	ASW-3X-2
Next 3 below	ASW-C1X-2
Bottom	ASW-C10-11
Switch Screw (2)	MSSR-0054-1140
CAM 4	P-1365-565
Switch,	
Top	ASW-C2X-11
Next 2 below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1124
CAM 5	P-1365-566
Switch,	
Top 2	ASW-C3X-2
Next below	ASW-C1X-2
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1128
CAM 6	P-1365-567
Switch,	
Top 2	ASW-C3X-2
Next below	ASW-C3X-3
Next below	ASW-C2X-11
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1134
CAM 7	P-1365-568
Switch,	
Top	ASW-C3X-2
Next below	ASW-C3X-3
Next below	ASW-C2X-11
Bottom	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1126
CAM 8	P-1365-569
Switch,	
Top	ASW-C3X-3
Middle	ASW-C2X-12
Bottom	ASW-C2X
Switch Screw (2)	MSSR-0054-1122
CAM 9	P-1365-789
Switch	ASW-C1X-1
Switch Screw (2)	MSSR-0054-1108
CAM 10	P-1365-546
Switch,	
Top	ASW-C2X-12
Bottom	ASW-C2X
Switch Screw (2)	MSSR-0054-1114
CAM 11	P-1365-574
Switch,	
Top 2	ASW-C1X-2
Bottom	ASW-C1X-19
Switch Screw (2)	MSSR-0054-1120
Switch Plate (11)	P-137-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# TRIP RELAYS, MOTORIZED

## Typical Coil & Switch Assy.

RESET ASSY., PAGE 47



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# TRIP RELAYS, MOTORIZED Coil & Switch Assys.

Game to game variations in Coil & Switch Assy., Motorized Trip Relay, are described in this and following pages. Switching components are listed from Motor end and from top to bottom of related Relay.

## EL TORO

As illustrated, page 43, with

Coil (9 used) . . . . . D-28-500

Latch Plate Assy.

ILLUSTRATED AT RIGHT

(9 used) . . . . . A-261-13

**Switch & Bracket Assy.**

Bracket & Stud Assy. . . . . A-3120-3

**Switching components**

Switch

LISTED BELOW

UNDER RELATED RELAYS

Switch Actuator

SEE PAGE 27

Switch Screw

LISTED BELOW

UNDER RELATED RELAYS

Switch Plate (10 used). . . . . P-137-5

**INDEX CAM**

Switch,

Top. . . . . ASW-C2X-1

Middle. . . . . ASW-C1X-2

Bottom. . . . . ASW-BO

Switch Screw . . . . . MS-540-18-110

**E RELAY**

Switch,

Top. . . . . ASW-B-1

Middle . . . . . ASW-B-3

Bottom. . . . . ASW-B-20

Switch Screw . . . . . MS-540-28-110

**L RELAY**

Switching same as in E RELAY

**T RELAY**

Switching same as in L RELAY

**1ST O RELAY**

Switch,

Top. . . . . ASW-B-1

Middle. . . . . ASW-B-3

Bottom. . . . . ASW-B-30

Switch Screw . . . . . MS-540-28-110

**R RELAY**

Switching same as in 1ST O RELAY

**2ND O RELAY**

Switching same as in E RELAY

**EL TORO RELAY**

Swjth,

Top 4 . . . . . ASW-B-1

Bottom. . . . . ASW-B-20

Switch Screw . . . . . MS-540-40-110

**TILT RELAY**

Switch,

Top 2 . . . . . ASW-B-1

Bottom 2 . . . . . ASW-B-20

Switch Screw . . . . . MS-540-34-110

**GAME OVER RELAY**

Switch,

Top. . . . . ASW-B-1

Next Below. . . . . ASW-B-3

Next 3 Below . . . . . ASW-B-20

Switch Screw . . . . . MS-540-40-110

## MONTE CARLO

As illustrated, page 43, with

Coil (16 used) . . . . . C-28-500

Latch Plate Assy.

ILLUSTRATED AT RIGHT

(16 used). . . . . A-261-13

**Switch & Bracket Assy.**

Bracket & Stud Assy. . . . . A-3120-31

**Switching Components**

Switch

LISTED BELOW

UNDER RELATED RELAYS

Switch Actuator

SEE PAGE 27

Switch Plate (20 used). . . . . P-137-5

Switch Screw

LISTED BELOW

UNDER RELATED RELAYS

**RESET INDEX CAM**

Switch,

Top. . . . . ASW-C-2X-1

Middle . . . . . ASW-C1X-5

Bottom . . . . . ASW-BO

Switch Screw (2) . . . . . MS 540-18-110

**1**

Switch,

Top 3 . . . . . ASW-B-1

Bottom 2 . . . . . ASW-B-3

Switch Screw (2) . . . . . MS-540-40-110

**3**

**5**

**7**

**9**

**2**

**4**

**6**

**8**

**10**

Switching in each above Relay

same as in 1 RELAY

**BONUS 6-10**

**3-switch bank**

Switch (each of 3) . . . . . ASW-B-3

Switch Screw (2) . . . . . MS-540-28-110

**5-switch bank**

Switch,

Top. . . . . ASW-B-1

Next 2 below . . . . . ASW-B-3

Bottom 2 . . . . . ASW-B-20

Switch Screw (2) . . . . . MS-540-40-110

**ALL ODDS**

**2-switch bank**

Switch,

Top. . . . . ASW-B-1

Bottom . . . . . ASW-B-3

Switch Screw (2) . . . . . MS-540-22-110

**5-switch bank**

Switch,

Top 3 . . . . . ASW-B-1

Next Below. . . . . ASW-B-3

Bottom . . . . . ASW-B-20

Switch Screw (2) . . . . . MS-540-40-110

## MONTE CARLO

(CONTINUED)

**ALL EVENS**

**4-switch bank**

Switch,

Top 3 . . . . . ASW-B-1

Bottom . . . . . ASW-B-3

Switch Screw (2) . . . . . MS-540-40-110

**5-switch bank**

Switch,

Top 3 . . . . . ASW-B-1

Next below. . . . . ASW-B-3

Bottom . . . . . ASW-B-20

Switch Screw (2) . . . . . MS-540-40-110

**ODDS SUPER BONUS**

Switch,

Top. . . . . ASW-B-1

Next below. . . . . ASW-B-3

Bottom 2 . . . . . ASW-B-20

Switch Screw (2) . . . . . MS-540-34-110

**EVENS SUPER BONUS**

Switching same as in

**ODDS SUPER BONUS**

**TILT**

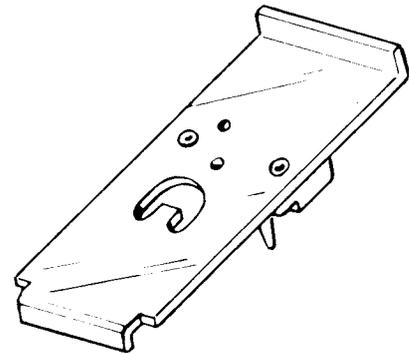
Switch,

Top 2 . . . . . ASW-B-1

Next below . . . . . ASW-B-3

Bottom 2 . . . . . ASW-B-20

Switch Screw (2) . . . . . MS-540-40-110



LATCH PLATE ASSY.  
A-261-13

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# TRIP RELAYS, MOTORIZED

## Coil & Switch Assys.

### HI-LO ACE

As illustrated page 43 with

Coil (17 used) . . . . . D-28-500

Latch Plate Assy.

(ILLUSTRATED, PAGE 44)

(17 used) . . . . . A-261-13

**Switch & Bracket Assy.**

Bracket & Stud Assy . . . . . A-3120-4

**Switching components**

Switch

LISTED BELOW

UNDER RELATED RELAYS

Switch Actuator

SEE PAGE 27

Switch Plate (20 used) . . . . . P-137-5

Switch Screw

LISTED BELOW

UNDER RELATED RELAYS

**INDEX CAM**

Switch,

Top . . . . . ASW-C2X-1

Middle . . . . . ASW-C1X-5

Bottom

(CAM FOLLOWER) . . . . . ASW-BO

Switch Screw . . . . . MSSR-00540-1118

**1 (ACE)**

Switch,

Top . . . . . ASW-B-1

Next 2 below . . . . . ASW-B-3

Bottom . . . . . ASW-B-20

Switch Screw . . . . . MSSR-00540-1134

**2 (HIGH SPECIAL)**

**4-Switch Stack**

Same as in 1 (ACE) Relay

**5-Switch Stack**

Switch,

Top 3 . . . . . ASW-B-1

Bottom 2 . . . . . ASW-B-20

Switch Screw . . . . . MSSR-00540-1140

**3 (LOW SPECIAL)**

Same as 2 (HIGH SPECIAL) Relay

**4 (2 )**

Switch,

Top . . . . . ASW-B-1

Bottom 3 . . . . . ASW-B-3

Switch Screw . . . . . MSSR-00540-1134

**5 (3)**

Switch,

Top . . . . . ASW-B-1

Next 2 below . . . . . ASW-B-3

Bottom . . . . . ASW-B-20

Switch Screw . . . . . MSSR-00540-1134

**6 (4)**

**7 (5)**

**8 (6)**

**9 (7)**

**10 (8)**

Switching in each above five relays:

same as in 5 (3) Relay

### HI-LO ACE

(CONTINUED)

**11 (9)**

Same as in 4 (2) Relay

**12 (10)**

**13 (JACK)**

**14 (QUEEN)**

**15 (KING)**

Switching in each above four Relays

Same as in 5 (3) Relay.

**16 (GO)**

Switch,

Top . . . . . ASW-B-1

Next Below . . . . . ASW-B-3

Bottom 3 . . . . . ASW-B-20

Switch Screw . . . . . MSSR-00540-1140

**17 (100,000 POINT)**

**3-Switch Stack**

Switch,

Top . . . . . ASW-B-1

Bottom 2 . . . . . ASW-B-20

Switch Screw . . . . . MSSR-00540-1128

**4-Switch Stack**

Switch,

Each of 4 . . . . . ASW-B-1

Switch Screw . . . . . MSSR-00540-1128

### BON VOYAGE

As illustrated, page 43, with

Coil (11 used) . . . . . D-28-500

Latch Plate Assy.

(ILLUSTRATED, PAGE 44)

(11 used) . . . . . A-261-13

**Switch & Bracket Assy.**

Bracket & Stud Assy. . . . . A-3120-6

**Switching Components**

Switch

LISTED BELOW

UNDER RELATED RELAYS

Switch Actuator: SEE PAGE 27

Switch Plate (12) . . . . . P-137-5

Switch Screw

LISTED BELOW

UNDER RELATED RELAYS

**Switching components**

listed in next column

from Motor end

and from top to bottom

of each stack

### BON VOYAGE

**RESET INDEX CAM**

Switch,

Top . . . . . ASW-C2X-1

Middle . . . . . ASW-C1X-5

Bottom

(CAM FOLLOWER) . . . . . ASW-BO

Switch Screw (2) . . . . . MSSR-00540-1122

**CAM 1 (B)**

Switch,

Top 2 . . . . . ASW-B1

Next below . . . . . ASW-B3

Bottom 2 . . . . . ASW-B20

Switch Screw (2) . . . . . MSSR-00540-1140

**CAM 2 (O)**

**CAM 3 (N)**

**CAM 4 (V)**

**CAM 5 (O)**

**CAM 6 (Y)**

**CAM 7 (A)**

**CAM 8 (G)**

**CAM 9 (E)**

Switching with above 8 Cams

is same as with CAM 1

**CAM 10 (B-E)**

Switch,

Top 3 . . . . . ASW-B1

Bottom . . . . . ASW-B20

Switch Screw (2) . . . . . MSSR-00540-1134

**CAM 11 (GAME OVER)**

Switch,

Top . . . . . ASW-B1

Next below . . . . . ASW-B3

Bottom 3 . . . . . ASW-B20

Switch Screw (2) . . . . . MSSR-00540-1140

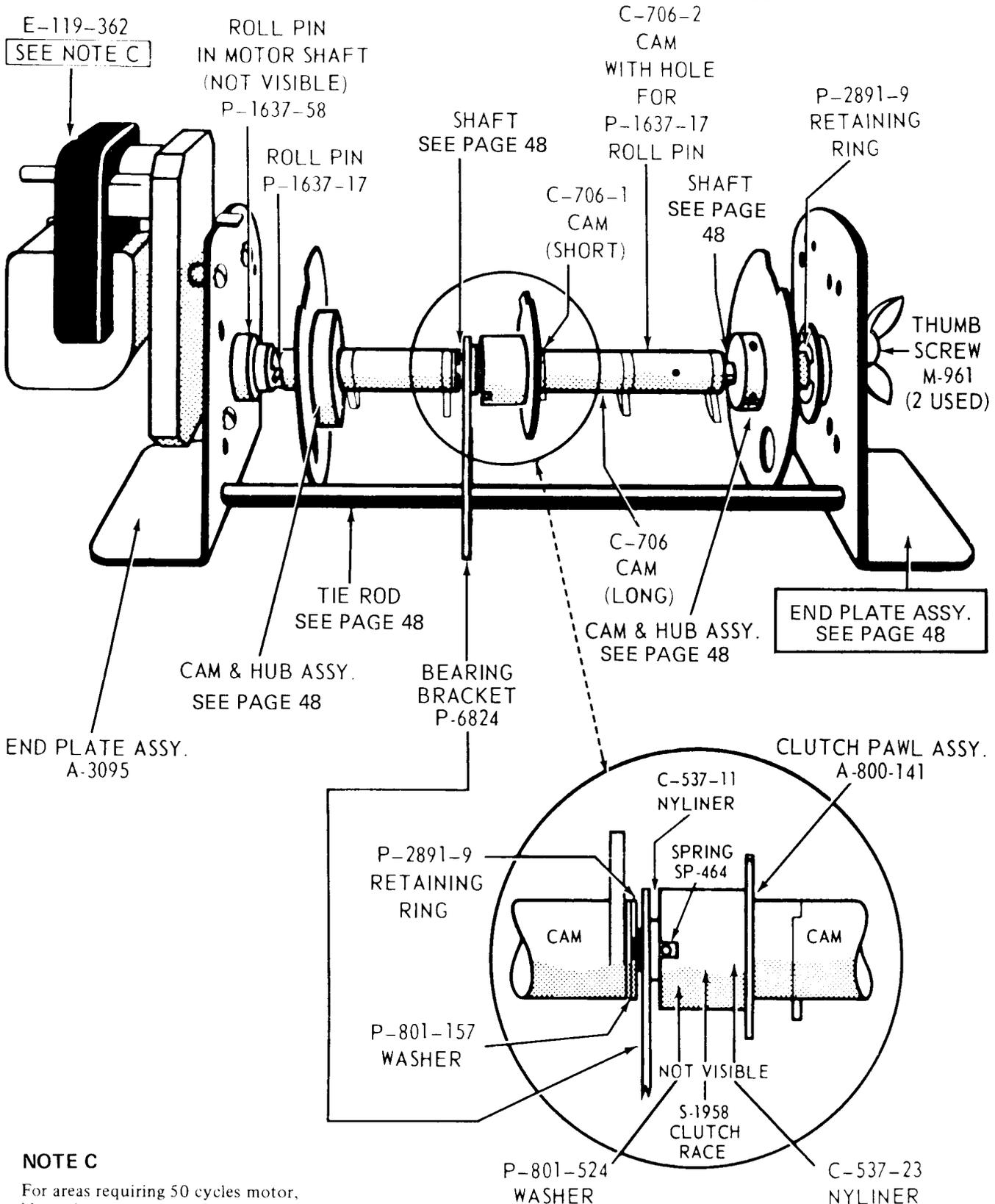
**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# TRIP RELAYS, MOTORIZED

## Typical Reset Assy.

COIL & SWITCH ASSYS. PAGE 43



### NOTE C

For areas requiring 50 cycles motor,  
Motor E-119-385 is used.

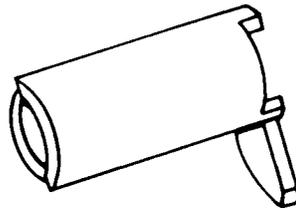
**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# TRIP RELAYS, MOTORIZED

## Reset Assys.

### EL TORO

As illustrated, page 47, with  
 Cam & Hub Assy . . . . . A-800-153  
 End Plate Assy.  
 (Remote from Motor) . . . A-3095-3  
 Reset Cam (illustrated at right)  
 (9 used) . . . . . C-706  
 Shaft, Cam . . . . . S-1961-9  
 Tie Bar . . . . . S-1962-9



RESET CAM C-706

### MONTE CARLO

Same as in EL TORO, excepting  
 Reset Cam (illustrated at right)  
 (15 used) . . . . . C-706  
 (1 used) . . . . . C-706-4  
 (1 used) . . . . . C-706-5  
 Set Screw . . . . . SS-832-3-1101  
 Shaft, Cam . . . . . S-1961-16  
 Tie Bar (2 used) . . . . . S-1962-16



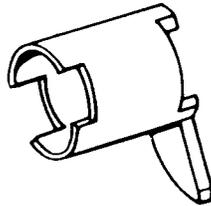
RESET CAM ADAPTER  
 C-706-4

### ODDS & EVENS

Same as in MONTE CARLO

### HI-LO ACE

As illustrated, page 47, with  
 Cam & Hub Assy . . . . . A-800-153  
 End Plate Assy.  
 (Remote from Motor) . . . A-3095-3  
 Reset Cam (illustrated at right)  
 (16 used) . . . . . C-706  
 (1 used) (ADAPTER) . . . C-706-4  
 (1 used) . . . . . C-706-5  
 Shaft, Cam . . . . . S-1961-17  
 Tie Bar (2 used) . . . . . S-1962-17



RESET CAM C-706-5

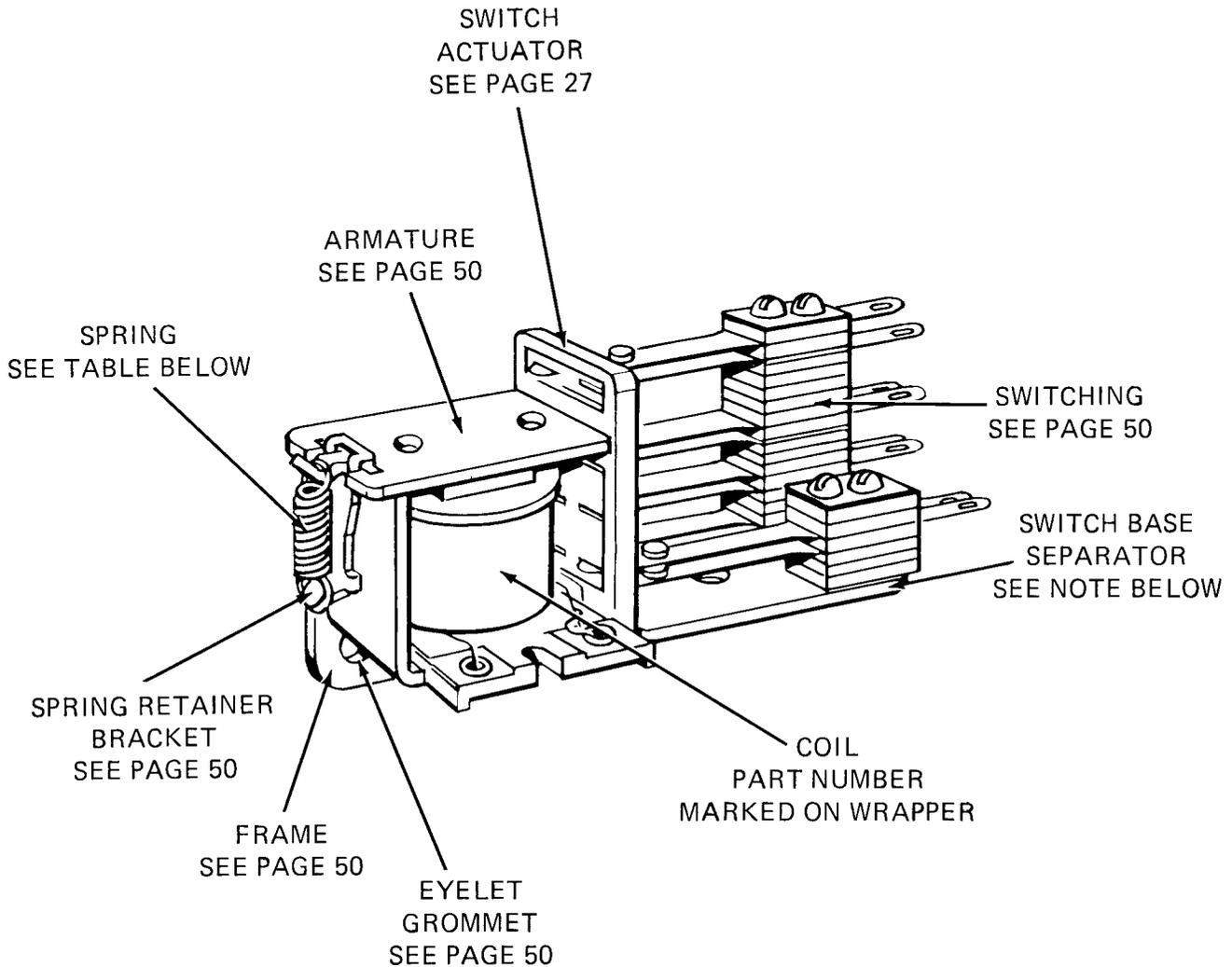
### BON VOYAGE

As illustrated, page 47, with  
 Cam & Hub Assy. . . . . A-800-153  
 End Plate Assy.  
 (Remote from Motor End) A-3095-3  
 Reset Cam (illustrated at right)  
 (10 used) . . . . . C-706  
 (1 used) (ADAPTER) . . . C-706-4  
 (1 used) . . . . . C-706-5  
 Shaft, Cam . . . . . S-1961-11  
 Tie Rod (2) . . . . . S-1962-11

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

"G" Type Interlock Relays shown on page 87



### SWITCH BASE SEPARATORS

Switch Base Separators, used only as required, are 9/16 in. by 5/16 in. with 2 holes for switch screw.

1/32 in. thick (approximately) . . . SMB-1

1/16 in. thick (approximately) . . . SMB-2

SPRING TABLE	
COLOR	PART NO.
Natural (not dyed)	SP-199-28
Red	SP-199-29
Green	SP-199-30

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## KEY TO SWITCH LISTING

Switches are listed below in numerical order, commencing with Switch Plate end of each switch-stack.

When 2 switch-stacks are used, stack nearest to Relay Mounting Board is Stack A. Second stack is Stack B.

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Relay, (c) part fastener secures.

## SKYROCKET

### Single Relays

(Back Cabinet Insert)

GAME OVER ..... AS-2651-2  
Interlock Relay: see page 88

(Mounting Board)

2ND COIN ..... AS-2651-1  
Interlock Relay: see page 88

(Playfield Panel)

FREE BALL GATE  
& RELAY ASSY..... AS-2308-12  
Bracket ..... P-6015-1  
Relay Assy. .... AS-2656-1  
As illustrated, page 49,  
with variable components  
listed below  
Armature ..... A-3509  
Frame ..... P-7472  
Spring Retainer..... P-7491  
Switch,  
1st ..... ASW-R1-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R2-1  
Switch Plate ..... P-137-12  
OPEN BOTTOM GATE .... AS-2659-1  
As illustrated, page 49,  
with variable components listed below  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer..... P-7491  
Switch,  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1  
Switch Plate ..... P-137-14

## SKYROCKET

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

10 POINT  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1  
100 POINT  
Same as 10 POINT, except  
Switch,  
**Stack B**  
1st, 2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1  
1000 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3,  
**Stack B**  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1  
SCORES RESET  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
**Stack B**  
Same as **Stack A**  
PLAYER  
Same as SCORES RESET, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R3-1  
**Stack B**  
1st, 2nd, 3rd ..... ASW-R3-1  
Switch Plate (10) ..... P-137-14

## SKYROCKET

### 6 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

LEFT RED THUMPER BUMPER  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1  
BLUE THUMPER BUMPER  
Same as  
LEFT RED THUMPER BUMPER  
RIGHT RED THUMPER BUMPER  
Same as  
LEFT RED THUMPER BUMPER  
RED THUMPER BUMPER LIGHT  
Same as  
LEFT RED THUMPER BUMPER  
EXCEPT  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1  
BLUE THUMPER BUMPER LIGHT  
Same as  
RED THUMPER BUMPER LIGHT  
POST  
Same as  
LEFT RED THUMPER BUMPER  
except  
Switch,  
1st ..... ASW-R2-1  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1  
Switch Plate (6) ..... P-137-14

### 17 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

OPEN TOP GATE  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer..... P-7491  
Switch,  
1st, 2nd ..... ASW-R1-4  
3rd ..... ASW-R1-1  
3000 POINTS  
Same as OPEN TOP GATE, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1  
SKYROCKET TARGET  
Same as OPEN TOP GATE, except  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

CONTINUED  
ON  
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## SKYROCKET

**17 Bank (CONTINUED)**  
**SKYROCKET MOTOR**  
 Same as OPEN TOP GATE, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1

**SKYROCKET SCORE**  
 Same as OPEN TOP GATE, except  
 Switch,  
**Stack A,**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

**LEFT EJECT HOLE**  
 Same as OPEN TOP GATE, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

**RIGHT EJECT HOLE**  
 Same as LEFT EJECT HOLE

**BALL INDEX**  
 Same as SKYROCKET SCORE

**EXTRA BALL**  
 Same as 3000 POINT

**OUTHOLE**  
 Same as OPEN TOP GATE, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1  
 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1-3  
 2nd ..... ASW-R1-1

**TILT**  
 Same as OPEN TOP GATE, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1-7  
 3rd, 4th ..... ASW-R1-1

**RESET**  
 Same as OPEN TOP GATE, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

**CREDIT**  
 Same as OPEN TOP GATE

**3RD COIN CHUTE**  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

**2ND COIN CHUTE**  
 Same as 3RD COIN CHUTE

**COIN**  
 Same as 2ND COIN CHUTE, except  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

## SKYROCKET

**17 Bank (CONTINUED)**  
**LOCK**  
 Same as OPEN TOP GATE, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3-7  
 4th ..... ASW-R1-1

**Switch Plate (23)** ..... P-137-14

## FOUR MILLION B.C.

**Single Relays**  
 (Mounting Board)  
**GAME OVER** ..... AS-2651-1  
**Interlock Relay: see page 88**

(Playfield Panel)  
**GATE BRACKET**  
**& RELAY ASSY.** ..... AS-2308-13  
 Bracket ..... P-6015-1  
 Relay ..... AS-2656-2  
 As illustrated, page 49,  
 with variable components  
 listed below  
 Armature ..... A-3509  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-5  
 Switch Plate ..... P-137-14

**OPEN GATE**  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1-1  
 Switch Plate ..... P-137-14

**4 Bank (Playfield Panel)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**RAMP BLUE** ..... AS-2659-182  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
**RAMP GREEN** ..... AS-2659-183  
 Same as RAMP BLUE, except  
 Switch,  
 1st, 2nd ..... ASW-R1-4  
**RAMP RED**  
 Same as RAMP GREEN  
**RAMP BIRD** ..... AS-2659-181  
 Same as RAMP BLUE, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd ..... ASW-R1-3  
 Switch Plate (4) ..... P-137-14

## FOUR MILLION B.C.

**5 Bank (Back Cabinet Insert)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**10 POINT**  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-1

**100 POINT**  
 Same as 10 POINT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R1-4  
 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R2-1  
 3rd ..... ASW-R1-1

**1000 POINT**  
 Same as 100 POINT; except  
 Switch,  
**Stack B**  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-1

**NO. 1 SCORE RESET**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
**Stack B**  
 Same as **Stack A**

**NO. 2 SCORE RESET**  
 Same as NO. 1 SCORE RESET  
 Switch Plate (10) ..... P-137-14

**5 Bank (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**TAR PIT** ..... AS-2651-3  
**Interlock Relay: see page 88**

**CLOSE FLIPPER TARGET**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-1

**OPEN FLIPPER TARGET**  
 Same as CLOSE FLIPPER TARGET, except  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

**ADVANCE BALL**  
 Same as CLOSE FLIPPER TARGET, except  
 Switch,  
 1st ..... ASW-R1-4  
 2nd, 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## FOUR MILLION B.C.

**5 Bank (Mounting Board)**  
 (CONTINUED FROM PAGE 51)  
**ERUPT VOLCANO**  
 Same as CLOSE FLIPPER TARGET, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
 4th ..... ASW-R1X-1  
 5th ..... ASW-R1-3  
 6th ..... ASW-R1-1  
 Switch Plate (5) ..... P-137-14

**6 Bank (Playfield Panel)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**BLUE THUMPER BUMPER**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1  
**GREEN THUMPER BUMPER**  
 Same as BLUE THUMPER BUMPER  
**RED THUMPER BUMPER**  
 Same as BLUE THUMPER BUMPER  
**BLUE THUMPER BUMPER LIGHT**  
 Same as BLUE THUMPER BUMPER,  
 except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
**GREEN THUMPER BUMPER LIGHT**  
 Same as  
 BLUE THUMPER BUMPER LIGHT  
**RED THUMPER BUMPER LIGHT**  
 Same as  
 BLUE THUMPER BUMPER LIGHT  
 Switch Plate (6) ..... P-137-14

**15 Bank (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**VOLCANO EJECT**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Sprint Retainer ..... P-7491  
 Switch,  
 1st, 2nd ..... ASW-R1-1  
 3rd, 4th, 5th ..... ASW-R1-3  
 6th ..... ASW-R1-1  
**VOLCANO HOLE**  
 Same as VOLCANO EJECT, except  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
**CLOSE FLIPPER**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R2-1-7  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5

## FOUR MILLION B.C.

**15 Bank (Continued)**  
**BALL RELEASE**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1  
**BALL INDEX**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
**OUTHOLE**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
**3rd BALL**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
**TILT**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1-7  
 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-5  
**RESET**  
 Same as VOLCANO EJECT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
**PLAYER RESET**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
**CREDIT**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-1  
**3RD COIN CHUTE**  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1-3  
 2nd ..... ASW-R1-1  
**2ND COIN CHUTE**  
 Same as 3RD COIN CHUTE, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

## FOUR MILLION B.C.

**15 Bank (Continued)**  
**COIN**  
 Same as 3RD COIN CHUTE, except  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
**LOCK**  
 Same as VOLCANO EJECT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3-7  
 4th ..... ASW-R1-5  
 Switch Plate (19) ..... P-137-14

## EXPRESSWAY

**Single Relays (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**ADVANCE BONUS HOLE** . AS-2661-1  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th, 5th ..... ASW-R1-3  
 6th ..... ASW-R1-1  
 Switch Plate ..... P-137-14  
**EXTRA BALL** ..... AS-2659-49  
 Same as ADVANCE BONUS HOLE, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
 Switch Plate ..... P-137-14  
**NAME ADVANCE** ..... AS-2659-4  
 Same as ADVANCE BONUS HOLE, except  
 Switch,  
 1st, 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1  
 Switch Plate ..... P-137-14

**4 Bank (Back Cabinet Insert)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**10 POINT**  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st ..... ASW-R1-4  
 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

**CONTINUED**  
**ON**  
**NEXT PAGE**

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## EXPRESSWAY

**4 Bank** (Back Cabinet Insert)  
(CONTINUED FROM PAGE 52)  
100 POINT  
Same as 10 POINT, except  
Switch,  
Same as 10 POINT, except  
**Stack B**  
1st ..... ASW-R2-1  
2nd ..... ASW-R1-1  
1000 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1  
SCORE RESET  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
Switch Plate (7) ..... P-137-14

**4 Bank** (Playfield Panel)  
Relays as illustrated, page 49,  
with variable components listed below  
LEFT THUMPER BUMPER  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1  
LOWER THUMPER BUMPER  
Same as LEFT THUMPER BUMPER  
RIGHT THUMPER BUMPER  
Same as LEFT THUMPER BUMPER  
POST  
Same as LEFT THUMPER BUMPER,  
except  
Switch,  
1st ..... ASW-R2-1  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-5  
Switch Plate (4) ..... P-137-14

**11 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below  
1ST E MUSHROOM BUMPER  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd ..... ASW-R1-4  
3rd ..... ASW-R1-1  
X MUSHROOM BUMPER  
P MUSHROOM BUMPER  
R TARGET  
2ND E TARGET  
1ST S TARGET  
2ND S TARGET  
Above 6 relays  
same as 1ST E MUSHROOM BUMPER

## EXPRESSWAY

**11 Bank** (CONTINUED)  
W MUSHROOM BUMPER  
Same as 1ST E MUSHROOM BUMPER,  
except  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-4  
4th ..... ASW-R1-1  
A MUSHROOM BUMPER  
Same as 1ST E MUSHROOM BUMPER,  
except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-4  
4th ..... ASW-R1-1  
Y MUSHROOM BUMPER  
Same as W MUSHROOM BUMPER  
SPOT LETTER TARGET  
Same as 1ST E MUSHROOM BUMPER  
Switch Plate (11) ..... P-137-14

**14 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below  
ALTERNATOR  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R3-1  
**Stack B**  
1st, 2nd, 3rd ..... ASW-R3-1  
BONUS SCORE  
Same as ALTERNATOR, except  
Switch,  
1st ..... ASW-R1-3  
2nd, 3rd, 4th ..... ASW-R1-1  
5th ..... ASW-R1-1  
BALL INDEX  
Same as ALTERNATOR, except  
Switch,  
1st, 2nd ..... ASW-R2-1  
3rd ..... ASW-R1-4  
4th ..... ASW-R1-3  
5th ..... ASW-R1-5

OUTHOLE  
Same as BONUS SCORE  
BONUS HOLE  
Same as BONUS SCORE  
LEFT ALLEY  
Same as ALTERNATOR, except  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1-1  
RESET  
Same as ALTERNATOR, except  
Switch,  
1st, 2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-1  
CREDIT  
Same as ALTERNATOR, except  
Switch,  
1st, 2nd ..... ASW-R1-4  
3rd ..... ASW-R1-1

## EXPRESSWAY

**14 Bank** (CONTINUED)  
3RD COIN CHUTE  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd, 3rd ..... R1-3  
4th ..... R1-1  
2ND COIN CHUTE  
Same as 3RD COIN CHUTE  
COIN  
Same as 3RD COIN CHUTE, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R1-3  
2nd ..... ASW-R1-1  
LOCK  
Same as ALTERNATOR, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3-7  
4th ..... ASW-R1-5  
GAME OVER ..... AS-2651-5  
TILT ..... AS-2651-4  
Above 2 Relays are Interlock Relays  
See page 88  
Switch Plate (16) ..... P-137-14

## SEA RAY

**Single Relays**  
(Back Cabinet Insert)  
PLAYER ..... AS-2659-57  
As illustrated, page 49,  
with variable components listed below  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R3-1  
Switch Plate ..... P-137-14  
2ND COIN ..... AS-2651-2  
Interlock Relay: see page 88  
  
(Mounting Board)  
GAME OVER ..... AS-2651  
Interlock Relay: see page 88

**5 Bank** (Back Cabinet Insert)  
Relays as illustrated, page 49,  
with variable components listed below  
10 POINT  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## SEA RAY

### 5 Bank (CONTINUED)

100 POINT  
Same as 10 POINT

1000 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-3

**Stack B**  
1st . . . . . ASW-R1X-1  
2nd . . . . . ASW-R1-1

SCORES RESET  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th . . . . . ASW-R1X-1

**Stack B**  
Same as Stack A

PLAYER  
Same as SCORES RESET, except  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R3-1  
4th . . . . . ASW-R1-5  
Switch Plate (9) . . . . . P-137-14

### 6 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below

LEFT ALLEY  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
1st, 2nd, 3rd, 4th, 5th . . . . . ASW-R1-3

UP POST  
Same as LEFT ALLEY, except  
Switch,  
1st, 2nd . . . . . ASW-R2-1

ADVANCE BONUS  
Same as LEFT ALLEY, except  
Switch,  
1st . . . . . ASW-R1-4  
2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-1

UP POST MUSHROOM BUMPER  
Same as LEFT ALLEY, except  
Switch,  
1st, 2nd . . . . . ASW-R2-1  
3rd, 4th . . . . . ASW-R1-1  
5th . . . . . ASW-R1-1

EXTRA BALL TARGET  
Same as LEFT ALLEY, except  
Switch,  
1st, 2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1

GATE TARGET  
Same as LEFT ALLEY, except  
Switch,  
1st . . . . . ASW-R1X-1  
2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1  
Switch Plate (6) . . . . . P-137-14

## SEA RAY

### 6 Bank (Playfield Panel)

Relays as illustrated, page 49,  
with variable components listed below

LEFT BLUE THUMPER BUMPER  
Armature . . . . . P-7569  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
1st . . . . . ASW-R1-4  
2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-1

RED THUMPER BUMPER  
Same as LEFT BLUE THUMPER BUMPER

RIGHT BLUE THUMPER BUMPER  
Same as LEFT BLUE THUMPER BUMPER

BLUE THUMPER BUMPER LIGHT  
Same as LEFT BLUE THUMPER BUMPER  
except  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-5

RED THUMPER BUMPER LIGHT  
Same as BLUE THUMPER BUMPER LIGHT

POST  
Same as LEFT BLUE THUMPER BUMPER,  
except  
Switch,  
1st . . . . . ASW-R2-1  
2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-5  
Switch Plate (6) . . . . . P-137-14

### 14 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below

TOP HOLE  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
1st, 2nd, 3rd, 4th, 5th . . . . . ASW-R1-3  
6th . . . . . ASW-R1-1

BONUS ZERO  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R2-1  
2nd . . . . . ASW-R1-3

RESET BONUS  
Same as TOP HOLE, except  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1

BALL INDEX  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R2-1  
2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-5

EXTRA BALL  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1  
3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-5

RIGHT ALLEY  
Same as TOP HOLE

## SEA RAY

### 14 Bank (CONTINUED)

OUT HOLE  
Same as TOP HOLE

TILT  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1-7  
3rd, 4th . . . . . ASW-R1-3  
5th . . . . . ASW-R1-5

RESET  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R3-1  
2nd, 3rd . . . . . ASW-R2-1  
4th . . . . . ASW-R1-3  
5th . . . . . ASW-R1-1

CREDIT  
Same as TOP HOLE, except  
Switch,  
1st, 2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1

3RD COIN CHUTE  
Armature . . . . . P-7469  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-2  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . P-7491  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1

2ND COIN CHUTE  
Same as 3RD COIN CHUTE

COIN  
Same as 3RD COIN CHUTE, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th . . . . . ASW-R1-3

**Stack B**  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-1

LOCK  
Same as TOP HOLE, except  
Switch,  
1st . . . . . ASW-R2-1  
2nd, 3rd . . . . . ASW-R1-3-7  
4th . . . . . ASW-R1-5  
Switch Plate (15) . . . . . P-137-14

CONTINUED  
ON  
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## MARINER

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651

Interlock Relay: see page 88

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

#### 10 POINT

Armature ..... P-7469

Eyelet (2) ..... M-122-19

Frame ..... P-7472-2

Grommet (2) ..... R-111-29

Spring Retainer ..... P-7491

Switch,

#### Stack A

1st ..... ASW-R1-4

2nd, 3rd ..... ASW-R1X-1

4th ..... ASW-R1-3

Stack B ..... ASW-R1-1

#### 100 POINT

Same as 10 POINT

#### 1000 POINT

Same as 10 POINT, except

Switch,

#### Stack A

1st, 2nd, 3rd ..... ASW-R1X-1

4th ..... ASW-R1-3

#### Stack B

1st ..... ASW-R1X-1

2nd ..... ASW-R1-1

#### NO. 1 SCORE RESET

Armature ..... P-7469

Frame ..... P-7472-1

Spring Retainer ..... P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R1X-1

#### Stack B

Same as Stack A

#### No. 2 SCORE RESET

Same as NO. 1 SCORE RESET

Switch Plate (10) ..... P-137-14

### 6 Bank (Playfield Panel)

Same as 6 Bank (Playfield Panel)

SEA RAY, page 54

### 7 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### LEFT ALLEY

Armature ..... P-7469

Frame ..... P-7472-1

Spring Retainer ..... P-7491

Switch,

1st, 2nd, 3rd, 4th, 5th ... ASW-R1-3

#### UP POST

Same as LEFT ALLEY, except

Switch,

1st, 2nd ..... ASW-R2-1

#### ADVANCE BONUS

Same as LEFT ALLEY, except

Switch,

1st ..... ASW-R1-4

2nd ..... ASW-R1X-1

3rd ..... ASW-R1-1

## MARINER

### 7 Bank (CONTINUED)

#### UP POST MUSHROOM BUMPER

Same as LEFT ALLEY, except

Switch,

1st, 2nd ..... ASW-R2-1

3rd, 4th ..... ASW-R1-3

5th ..... ASW-R1-1

#### EXTRA BALL TARGET

Same as LEFT ALLEY, except

Switch,

1st, 2nd ..... ASW-R1-4

3rd ..... ASW-R1-1

#### GATE TARGET

Same as LEFT ALLEY, except

Switch,

1st ..... ASW-R1-X-1

2nd ..... ASW-R1-4

3rd ..... ASW-R1-1

#### PLAYER RESET

Same as LEFT ALLEY, except

Switch,

1st ..... ASW-R3-1

2nd ..... ASW-R1-1

Switch Plate (7) ..... P-137-14

### 14 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### TOP HOLE

Armature ..... P-7469

Frame ..... P-7472-1

Spring Retainer ..... P-7491

Switch,

1st, 2nd, 3rd, 4th ..... ASW-R1-3

5th ..... ASW-R1-1

#### BONUS ZERO

Same as TOP HOLE, except

Switch,

1st ..... ASW-R2-1

2nd ..... ASW-R1-3

#### BONUS RESET

Same as TOP HOLE, except

Switch,

1st, 2nd ..... ASW-R1-3

3rd ..... ASW-R1-1

#### BALL INDEX

Same as TOP HOLE, except

Switch,

1st ..... ASW-R2-1

2nd ..... ASW-R1-3

3rd ..... ASW-R1-5

#### EXTRA BALL

Same as TOP HOLE, except

Switch,

1st ..... ASW-R3-1

2nd ..... ASW-R2-1

3rd ..... ASW-R1-3

4th ..... ASW-R1-5

#### RIGHT ALLEY

Same as TOP HOLE

#### OUT HOLE

Same as TOP HOLE, except

Switch,

1st, 2nd ..... ASW-R2-1

3rd, 4th, 5th ..... ASW-R1-3

6th ..... ASW-R1-1

## MARINER

### 14 Bank (CONTINUED)

#### TILT

Same as TOP HOLE, except

Switch,

1st ..... ASW-R3-1

2nd ..... ASW-R2-1-7

3rd, 4th ..... ASW-R1-3

5th ..... ASW-R1-5

#### RESET

Same as TOP HOLE, except

Switch,

#### Stack A

1st ..... ASW-R3-1

2nd ..... ASW-R2-1

3rd, 4th ..... ASW-R1-3

#### Stack B

1st ..... ASW-R2-1-7

2nd ..... ASW-R1-1

#### CREDIT

Same as TOP HOLE, except

Switch,

1st ..... ASW-R2-1

2nd, 3rd ..... ASW-R1-4

4th ..... ASW-R1-1

#### 3RD COIN SWITCH

Armature ..... P-7469

Eyelet (2) ..... M-122-19

Frame ..... P-7472-2

Grommet (2) ..... R-111-29

Spring Retainer ..... P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R1-3

Stack B ..... ASW-R1-1

#### 2ND COIN SWITCH

Same as 3RD COIN SWITCH, except

Switch,

1st, 2nd ..... ASW-R1-3

3rd ..... ASW-R1-1

#### COIN

Same as 3RD COIN SWITCH, except

Switch,

#### Stack B

1st, 2nd ..... ASW-R1-3

3rd ..... ASW-R1-1

#### LOCK

Same as TOP HOLE, except

Switch,

1st ..... ASW-R2-1

2nd, 3rd ..... ASW-R1-3-7

4th ..... ASW-R1-5

Switch Plate (17) ..... P-137-14

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## FIREBALL

### Single Relays (Mounting Board)

- GAME OVER ..... AS-2651
- Interlock Relay: **see page 88**
- TARGET ..... AS-2660-8
- As illustrated, page 49,  
with variable components listed below
- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer..... P-7491
- Switch,  
1st ..... ASW-R1X-1
- 2nd, 3rd, 4th..... ASW-R1-4
- 5th ..... ASW-R1-1
- Switch Plate ..... P-137-14

### 5 Bank (Back Cabinet Insert)

- Same as **5 Bank** (Back Cabinet Insert)
- MARINER, page 55

### 7 Bank (Mounting Board)

- Relays as illustrated, page 49,  
with variable components listed below
- WOTAN
- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer..... P-7491
- Switch,  
1st, 2nd, 3rd, 4th, 5th. . . ASW-R1-3
- ODIN
- Same as WOTAN, except
- Switch,  
1st ..... ASW-R1X-1
- 2nd, 3rd, 4th, 5th, 6th . . . ASW-R1-3
- WOTAN EJECT
- Same as WOTAN, except
- Switch,  
1st, 2nd ..... ASW-R2-1
- 3rd, 4th ..... ASW-R1-3
- 5th ..... ASW-R1-1
- ODIN EJECT
- Same as WOTAN, except
- Switch,  
**Stack A**
- 1st, 2nd ..... ASW-R2-1
- 3rd, 4th ..... ASW-R1-3
- Stack B**
- 1st ..... ASW-R2-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1
- WOTAN MUSHROOM BUMPER
- Same as WOTAN, except
- Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1-4
- 5th ..... ASW-R1-1
- CENTER MUSHROOM BUMPER
- Same as WOTAN, except
- Switch,  
1st ..... ASW-R1X-1
- 2nd, 3rd ..... ASW-R1-4
- 4th ..... ASW-R1-1
- ODIN MUSHROOM BUMPER
- Same as WOTAN MUSHROOM BUMPER
- Switch Plate (8) ..... P-137-14

## FIREBALL

### 7 Bank (Playfield Panel)

- Relays as illustrated, page 49,  
with variable components listed below
- LIGHT YELLOW THUMPER BUMPER
- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer ..... P-7491
- Switch,  
1st ..... ASW-R3-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5
- LIGHT NO. 3 ROLLOVER
- Same as
- LIGHT YELLOW THUMPER BUMPER,  
except
- Switch,  
1st ..... ASW-R3-1
- 2nd ..... ASW-R2-1
- 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-5
- LIGHT NO. 2 ROLLOVER
- Same as LIGHT NO. 3 ROLLOVER
- LIGHT NO. 1 ROLLOVER
- Same as LIGHT NO. 3 ROLLOVER
- BLUE THUMPER BUMPER
- Same as
- LIGHT YELLOW THUMPER BUMPER,  
except
- Switch,  
1st ..... ASW-R1-4
- 2nd ..... ASW-R1X-1
- 3rd ..... ASW-R1-1
- RIGHT YELLOW THUMPER BUMPER
- Same as BLUE THUMPER BUMPER
- LEFT YELLOW THUMPER BUMPER
- Same as BLUE THUMPER BUMPER
- Switch Plate (7) ..... P-137-14
- 15 Bank** (Mounting Board)
- Relays as illustrated, page 49,  
with variable components listed below
- COIN
- Armature ..... P-7469
- Eyelet (2) ..... M-122-19
- Frame ..... P-7472-2
- Grommet (2) ..... R-111-29
- Spring Retainer ..... P-7491
- Switch,  
**Stack A**
- 1st, 2nd, 3rd, 4th ..... ASW-R1-3
- Stack B**
- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1
- 2ND COIN CHUTE
- Same as **Stack B**, COIN
- 3RD COIN CHUTE
- Same as COIN, except
- Switch,  
**Stack B** ..... ASW-R1-1
- CREDIT
- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer..... P-7491
- Switch,  
1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-4
- 4th ..... ASW-R1-1

## FIREBALL

### 15 Bank (CONTINUED)

- LOCK
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-3-7
- 4th ..... ASW-R1-5
- RESET
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R3-1
- 2nd ..... ASW-R2-1-7
- 3rd ..... ASW-R2-1
- 4th, 5th..... ASW-R1-3
- 6th ..... ASW-R1-1
- OUT HOLE
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R3-1
- 2nd, 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-1
- BALL INDEX
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R1-3
- 2nd ..... ASW-R1-5
- TILT
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R3-1
- 2nd ..... ASW-R2-1-7
- 3rd, 4th..... ASW-R1-3
- 5th ..... ASW-R1-5
- 3RD BALL
- Same as CREDIT, except
- Switch,  
1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-1
- BALL RELEASE
- Same as CREDIT, except
- Switch,  
1st, 2nd, 3rd..... ASW-R1-3
- 4th ..... ASW-R1-1
- PLAYER RESET
- Same as CREDIT, except
- Switch  
1st ..... ASW-R3-1
- 2nd, 3rd ..... ASW-R2-1
- 4th ..... ASW-R1-3
- 5th ..... ASW-R1-1

<p><b>CONTINUED</b></p> <p><b>ON</b></p> <p><b>NEXT PAGE</b></p>
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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## FIREBALL

### 15 Bank (CONTINUED)

#### OPEN FLIPPER

Same as CREDIT, except

Switch,

- 1st ..... ASW-R1-3
- 2nd ..... ASW-R1-1

#### EXIT ALLEY

Same as CREDIT, except

Switch,

- 1st ..... ASW-R2-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1

#### ON KICKER

Same as CREDIT, except

Switch,

- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1

Switch Plate (17) ..... P-137-14

## EL TORO

### 4 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

#### 10 POINT

- Armature ..... P-7469
- Eyelet (2) ..... M-122-19
- Frame ..... P-7472-2
- Grommet (2) ..... R-111-29
- Spring Retainer ..... P-7491

Switch,

#### Stack A

- 1st ..... ASW-R1-4
- 2nd, 3rd ..... ASW-R1X-1
- 4th ..... ASW-R1-3

#### Stack B

- 1st ..... ASW-R1X-1
- 2nd ..... ASW-R1-1

#### 100 POINT

Same as 10 POINT, except

Switch,

- Stack B ..... ASW-R1

#### 1000 POINT

Same as 10 POINT, except

Switch,

#### Stack A

- 1st, 2nd, 3rd ..... ASW-R1X-1
- 4th ..... ASW-R1-3

#### SCORE RESET

- Armature ..... P-7469
  - Frame ..... P-7472-1
  - Spring Retainer ..... P-7491
- Switch,
- 1st, 2nd, 3rd, 4th ..... ASW-R1X-1

Switch Plate (7) ..... P-137-14

## EL TORO

### 4 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

#### LEFT GREEN THUMPER BUMPER

- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer ..... P-7491

Switch,

- 1st ..... ASW-R1-4
- 2nd ..... ASW-R1X-1
- 3rd ..... ASW-R1-1

#### YELLOW THUMPER BUMPER

Same as LEFT GREEN THUMPER BUMPER

#### RIGHT GREEN THUMPER BUMPER

Same as LEFT GREEN THUMPER BUMPER

#### GREEN THUMPER BUMPER LIGHT

Same as LEFT GREEN THUMPER BUMPER, except

Switch,

- 1st ..... ASW-R3-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5

Switch Plate (4) ..... P-137-14

### 15 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### EXTRA BALL

- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer ..... P-7491

Switch,

- 1st, 2nd ..... ASW-R2-1
- 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-5

#### NO. 3 ROLLOVER LIGHT

Same as EXTRA BALL, except

Switch,

- 1st ..... ASW-R3-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5

#### NO. 2 ROLLOVER LIGHT

Same as NO. 3 ROLLOVER LIGHT

#### NO. 1 ROLLOVER LIGHT

Same as NO. 3 ROLLOVER LIGHT

#### NO. 3 MUSHROOM BUMPER

Same as EXTRA BALL, except

Switch,

- 1st, 2nd ..... ASW-R1-4
- 3rd ..... ASW-R1-1

#### NO. 2 MUSHROOM BUMPER

Same as NO. 3 MUSHROOM BUMPER

#### NO. 1 MUSHROOM BUMPER

Same as NO. 3 MUSHROOM BUMPER

#### BALL INDEX

Same as EXTRA BALL, except

Switch,

- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5

#### OUTHOLE

Same as EXTRA BALL, except

Switch,

- 1st, 2nd ..... ASW-R2-1
- 3rd, 4th, 5th ..... ASW-R1-3
- 6th ..... ASW-R1-1

## EL TORO

### 15 Bank (CONTINUED)

#### RESET

Same as EXTRA BALL, except

Switch,

- 1st, 2nd ..... ASW-R2-1
- 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-1

#### CREDIT

Same as EXTRA BALL, except

Switch,

- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1

#### 3RD COIN CHUTE

- Armature ..... P-7469
- Eyelet (2) ..... M-122-19
- Frame ..... P-7472-2
- Grommet (2) ..... R-111-29
- Spring Retainer ..... P-7491

Switch,

Same as CREDIT

#### 2ND COIN CHUTE

Same as 3RD COIN CHUTE

#### COIN

Same as 3RD COIN CHUTE, except

Switch,

#### Stack A

- 1st, 2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

- 1st ..... ASW-R1-3
- 2nd ..... ASW-R1-1

#### LOCK

Same as EXTRA BALL, except

Switch,

- 1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-3-7
- 4th ..... ASW-R1-5

Switch Plate (16) ..... P-137-14

## LITTLE JOE

### Single Relays (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

- DELAY ..... AS-2716
- Lamp ..... E-125-44
- Lamp Socket ..... E-120-43
- Lockwasher ..... M-1700-5
- Relay ..... AS-2659-110
- Armature ..... P-7469
- Frame ..... P-7472-1
- Spring Retainer ..... P-7491

Switch,

- 1st ..... ASW-R2-1-7
- 2nd ..... ASW-R1-1

Switch Plate ..... P-137-14

GAME OVER ..... AS-2651-18

Interlock Relay: see page 88

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## LITTLE JOE

### Single Relays (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

DOWN POST	AS-2659-81
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st	ASW-R1-4
2nd	ASW-R1-1
Switch Plate	P-137-14
GATE RELAY ASSY.	AS-2308-14
Bracket	P-6015-1
Relay	
Same as DOWN POST, except	
Switch,	
1st	ASW-R1-3
2nd	ASW-R1-4

### 3 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

EXTRA BALL TARGET	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st	ASW-R2-1
2nd, 3rd	ASW-R1-4
4th	ASW-R1-5
OPEN GATE TARGET	
Same as EXTRA BALL TARGET	
MUSHROOM BUMPER	
Same as EXTRA BALL TARGET, except	
Switch,	
1st	ASW-R2-1
2nd	ASW-R1-4
3rd	ASW-R1X-1
4th	ASW-R1-5
Switch Plate (3)	P-137-14

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

10 POINT	
Armature	P-7469
Eyelet (2)	M-122-19
Frame	P-7472-2
Grommet (2)	R-111-29
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3
<b>Stack B</b>	
1st	ASW-R1-4
2nd	ASW-R1-1
100 POINT	
Same as 10 POINT, except	
Switch,	
<b>Stack A</b>	
1st	ASW-R1-4
2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3
<b>Stack B</b>	
1st	ASW-R1-1
1000 POINT	
Same as 10 POINT, except	
Switch,	
<b>Stack B</b>	
1st	ASW-R2-1
2nd	ASW-R1X-1
3rd	ASW-R1-1

## LITTLE JOE

### 5 Bank (CONTINUED)

NO. 1 SCORE RESET	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd, 4th	ASW-R1X-1
<b>Stack B</b>	
Same as <b>Stack A</b>	
NO. 2 SCORE RESET	
Same as NO. 1 SCORE RESET	
Switch Plate (10)	P-137-14

### 7 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

LEFT YELLOW THUMPER BUMPER	
RIGHT YELLOW THUMPER BUMPER	
RIGHT RED THUMPER BUMPER	
LEFT RED THUMPER BUMPER	
<b>Above 4 Relays are identical</b>	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st	ASW-R1-4
2nd	ASW-R1X-1
3rd	ASW-R1-1
RED THUMPER BUMPER LIGHT	
YELLOW THUMPER BUMPER LIGHT	
<b>Above 2 Relays are identical</b>	
Same as	
LEFT YELLOW THUMPER BUMPER,	
except	
Switch	
1st	ASW-R3-1
2nd	ASW-R1-5
LOWER GATE	
Same as	
LEFT YELLOW THUMPER BUMPER,	
except	
Switch,	
1st	ASW-R2-1
2nd	ASW-R1X-1
3rd	ASW-R1-5
Switch Plate (7)	P-137-14

### 8 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

1ST DICE NO. 1	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st, 2nd, 3rd, 4th, 5th	ASW-R1-3
6th	ASW-R1-5
1ST DICE NO. 2	
Same as 1ST DICE NO. 1, except	
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd, 4th	ASW-R1-3
<b>Stack B</b>	
1st, 2nd	ASW-R1-3
3rd	ASW-R1-5

## LITTLE JOE

### 8 Bank (CONTINUED)

1ST DICE NO. 3	
Same as 1ST DICE NO. 2, except	
Switch,	
<b>Stack B</b>	
1st, 2nd, 3rd	ASW-R1-3
4th	ASW-R1-5
1ST DICE NO. 4	
Same as 1ST DICE NO. 2	
1ST DICE NO. 5	
Same as 1ST DICE NO. 2	
1ST DICE NO. 6	
Same as 1ST DICE NO. 1	
500 POINT	
Same as 1ST DICE NO. 1, except	
Switch,	
1st	ASW-R2-1
2nd, 3rd	ASW-R1-3
4th	ASW-R1-1
3000 POINT	
Same as 500 POINT	
Switch Plate (12)	P-137-14

### 16 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

COIN	
Armature	P-7469
Eyelet (2)	M-122-19
Frame	P-7472-2
Grommet (2)	R-111-29
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd, 4th	ASW-R1-3
<b>Stack B</b>	
1st, 2nd	ASW-R1-3
3rd	ASW-R1-1
2ND COIN CHUTE	
Same as <b>Stack B</b> , COIN	
3RD COIN CHUTE	
Same as COIN, except	
Switch,	
<b>Stack B</b>	
ASW-R1-1	
CREDIT	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st	ASW-R2-1
2nd, 3rd	ASW-R1-4
4th	ASW-R1-1
LOCK	
Same as CREDIT, except	
Switch,	
1st	ASW-R2-1
2nd, 3rd	ASW-R1-3-7
4th	ASW-R1-5

CONTINUED
ON
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## LITTLE JOE

### 16 Bank (CONTINUED)

RESET  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1X-1  
4th ..... ASW-R-3  
**Stack B**  
1st ..... ASW-R2-1-7  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1  
PLAYER RESET  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-1  
OUTHOLE  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st ..... ASW-R2-1  
2nd ..... ASW-R1X-1  
3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1  
BALL INDEX  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R1-3  
2nd ..... ASW-R1-5  
TILT  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-1-7  
2nd ..... ASW-R1X-1  
3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-5  
EXTRA BALL  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R2-1  
4th ..... ASW-R1-3  
5th ..... ASW-R1-5  
TOTAL 4  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R1-3  
TOTAL 8  
Same as TOTAL 4  
TOTAL 7 OR 11  
Same as CREDIT, except  
Switch,  
1st, 2nd ..... ASW-R3-1  
3rd ..... ASW-R1-3  
TOP AREA EXIT  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-1  
EJECT HOLE  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1  
Switch Plate (20) ..... P-137-14

## SPACE TIME

### Single Relays

(Mounting Board)  
GAME OVER ..... AS-2651-8  
**Interlock Relay: see page 88**  
(Playfield Panel)  
GATE RELAY ASSY ..... AS-2308-14  
Same as GATE RELAY ASSY.  
**Single Relay** (Playfield Panel),  
LITTLE JOE, page 58

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,  
with variable components listed below  
10 POINT  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R1-4  
2nd ..... ASW-R1-1  
100 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1  
1000 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

### NO. 1 SCORE RESET

Same as 10 POINT, except  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-1

### NO. 2 SCORE RESET

Same as NO. 1 SCORE RESET  
Switch Plate (10) ..... P-137-14

### 6 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below  
PLAYER RESET  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-1  
DELAY ..... AS-2716  
Same as DELAY,  
**Single Relay** (Mounting Board),  
LITTLE JOE, page 57

## SPACE TIME

### 6 Bank (Mounting Board)

(CONTINUED)  
TUNNEL  
Same as PLAYER RESET, except  
Switch,  
1st ..... ASW-R2-1  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-5  
START TARGETS  
Same as PLAYER RESET, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-4  
4th ..... ASW-R1-5  
EXTRA BALL TARGET  
Same as START TARGETS  
COLLECT  
Same as PLAYER RESET, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1  
Switch Plate (6) ..... P-137-14

### 6 Bank (Playfield Panel)

Relays as illustrated, page 49,  
with variable components listed below  
RIGHT RED THUMPER BUMPER  
RIGHT BLUE THUMPER BUMPER  
LEFT RED THUMPER BUMPER  
LEFT BLUE THUMPER BUMPER  
Above 4 Relays are identical  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1  
ALTERNATOR  
Same as  
RIGHT RED THUMPER BUMPER,  
except  
Switch,  
1st, 2nd, 3rd ..... ASW-R-3  
DOWN POST  
Same as  
RIGHT RED THUMPER BUMPER,  
except  
Switch,  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1  
Switch Plate (6) ..... P-137-14

### 13 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below  
COIN  
Armature ..... AS-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## SPACE TIME

**13 Bank (CONTINUED)**  
**2ND COIN CHUTE**  
 Same as **Stack B**, COIN  
**3RD COIN CHUTE**  
 Same as COIN, except  
 Switch,  
**Stack B** ..... ASW-R1-1

**CREDIT**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-1

**LOCK**  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3-7  
 4th ..... ASW-R1-5

**RESET**  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

**OUTHOLE**  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

**BALL INDEX**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5

**TILT**  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1-7  
 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-5

**EXTRA BALL**  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5

**LEFT HOLE**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd, 3rd, 4th, 5th ..... ASW-R1-3  
 6th ..... ASW-R1-1

**RIGHT HOLE**  
 Same as LEFT HOLE

**LEFT ALLEY**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

Switch Plate (17) ..... P-137-14

## MONTE CARLO

**Single Relays**  
 (Mounting Board)  
**GAME OVER** ..... AS-2651-31  
**Interlock Relay: see page 88**  
 (Playfield Panel)  
**GATE RELAY ASSY** ..... AS-2308-15  
 Bracket ..... P-6015-1  
 Relay ..... AS-2656-4  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... A-3509  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
 Switch Plate ..... P-137-14

**3 Bank (Back Cabinet Insert)**  
**Interlock Relays: see page 88**

**5 Bank (Back Cabinet Insert)**  
 Same as 5 Bank (Back Cabinet Insert),  
**SPACE TIME**, page 59

**6 Bank (Playfield Panel)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**LEFT THUMPER BUMPER**  
**CENTER THUMPER BUMPER**  
**RIGHT THUMPER BUMPER**  
**Above 3 Relays are identical**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1

**LOWER GATE MUSHROOM BUMPER**  
**TOP GATE MUSHROOM BUMPER**  
**Above 2 Relays are identical**  
 Same as LEFT THUMPER BUMPER,  
 except  
 Switch,  
 1st, 2nd ..... ASW-R1-4  
 3rd ..... ASW-R1-1

**DOWN POST**  
 Same as LEFT THUMPER BUMPER  
 except  
 Switch,  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-1

Switch Plate (6) ..... P-137-14

**16 Bank (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
**COIN**  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

## MONTE CARLO

**16 Bank (CONTINUED)**  
**2ND COIN CHUTE**  
 Same as COIN, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

**3RD COIN CHUTE**  
 Same as COIN, except  
 Switch,  
**Stack B** ..... ASW-R1-1

**CREDIT**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-1

**LOCK**  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3-7  
 4th ..... ASW-R1-5

**RESET**  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
 1st ..... ASW-R2-1-7  
 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-1

**DELAY** ..... AS-2716  
 Same as DELAY  
**Single Relay (Mounting Board),**  
**LITTLE JOE**, page 57

**OUTHOLE**  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

**BALL INDEX**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5

**EXTRA BALL**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd ..... ASW-R2-1  
 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-5

**BONUS SCORE**  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1

<p style="text-align: center;"><b>CONTINUED ON NEXT PAGE</b></p>
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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## MONTE CARLO

### 16 Bank (CONTINUED)

#### BONUS CONTROL

Same as CREDIT, except  
Switch,

- 1st ..... ASW-R3-1
- 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5

#### PLAYER RESET

Same as CREDIT, except  
Switch,

- 1st ..... ASW-R3-1
- 2nd ..... ASW-R1-3

#### ODDS HOLE

Same as CREDIT, except  
Switch,

- Stack A**
- 1st, 2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

- 1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-1

#### EVENS HOLE

Same as ODDS HOLE

#### END SUPER BONUS

Same as CREDIT, except  
Switch,

- 1st ..... ASW-R2-1
- 2nd ..... ASW-R1-1

Switch Plate (22) ..... P-137-14

## ODDS & EVENS

### Single Relays

(Mounting Board)

DELAY ..... AS-2716

Same as DELAY,

### Single Relay (Mounting Board)

LITTLE JOE, page 57

GAME ..... AS-2651-17

### Interlock Relay: see page 89

(Playfield Panel)

GATE RELAY ASSY. .... AS-2308-14

Same as GATE RELAY ASSY.,

### Single Relay (Playfield Panel)

LITTLE JOE, page 58

### 4 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

#### 10 POINT

- Armature ..... P-7469
- Eyelet (2) ..... M-122-19
- Frame ..... P-7472-2
- Grommet (2) ..... R-111-29
- Spring Retainer ..... P-7491

Switch,

#### Stack A

- 1st, 2nd, 3rd ..... ASW-R1X-1
- 4th ..... ASW-R1-3

#### Stack B

- 1st ..... ASW-R1-4
- 2nd ..... ASW-R1-1

#### 100 POINT

Same as 10 POINT, except

Switch,

#### Stack A

- 1st ..... ASW-R1-4
- 2nd, 3rd ..... ASW-R1X-1
- 4th ..... ASW-R1-3

**Stack B** ..... ASW-R1-1

## ODDS & EVENS

### 4 Bank (CONTINUED)

#### 1000 POINT

Same as 10 POINT, except  
Switch,

#### Stack B

- 1st ..... ASW-R1X-1
- 2nd ..... ASW-R1-1

#### SCORE RESET

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

Switch,

- 1st, 2nd, 3rd, 4th ..... ASW-R1X-1
- Switch Plate (7) ..... P-137-14

### 7 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

LEFT BLUE THUMPER BUMPER  
RED THUMPER BUMPER  
RIGHT BLUE THUMPER BUMPER

#### Above 3 Relays are identical

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

Switch,

- 1st ..... ASW-R1-4
- 2nd ..... ASW-R1X-1
- 3rd ..... ASW-R1-1

#### OPEN LOWER GATE MUSHROOM BUMPER

Same as LEFT BLUE THUMPER BUMPER,  
except

Switch,

- 1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-4
- 4th ..... ASW-R1-5

#### CLOSE LOWER GATE MUSHROOM BUMPER

Same as LEFT BLUE THUMPER BUMPER,  
except

Switch,

- 1st, 2nd ..... ASW-R2-1
- 3rd ..... ASW-R1-4
- 4th ..... ASW-R1-5

#### DOWN POST

Same as LEFT BLUE THUMPER BUMPER,  
except

Switch,

- 1st ..... ASW-R1X-1
- 2nd ..... ASW-R1-1

Switch Plate (7) ..... P-137-14

### 11 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### COIN

Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491

Switch,

#### Stack A

- 1st, 2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-1

#### 2ND COIN CHUTE

Same as COIN, except

Switch

Same as **Stack B**, COIN

## ODDS & EVENS

### 11 Bank (CONTINUED)

#### 3RD COIN CHUTE

Same as 2ND COIN CHUTE  
CREDIT

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

Switch,

Same as **Stack B**, COIN

#### LOCK

Same as CREDIT, except

Switch,

- 1st ..... ASW-R2-1
- 2nd, 3rd ..... ASW-R1-3-7
- 4th ..... ASW-R1-5

#### RESET

Same as CREDIT, except

Switch,

- 1st ..... ASW-R2-1-7
- 2nd, 3rd, 4th ..... ASW-R2-1
- 5th ..... ASW-R1-3
- 6th ..... ASW-R1-1

#### OUTHOLE

Same as CREDIT, except

Switch,

- 1st ..... ASW-R2-1
- 2nd ..... ASW-R1X-1
- 3rd, 4th, 5th ..... ASW-R1-3
- 6th ..... ASW-R1-1

#### BALL INDEX

Same as CREDIT, except

Switch,

- 1st, 2nd ..... ASW-R1-3
- 3rd ..... ASW-R1-5

#### 5000 POINT

Same as CREDIT

#### ODDS HOLE

#### EVENS HOLE

#### Above 2 Relays are identical

Same as Credit, except

Switch,

#### Stack A

- 1st ..... ASW-R2-1
- 2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

- 1st ..... ASW-R1X-1
- 2nd, 3rd ..... ASW-R1-3
- 4th ..... ASW-R1-1

Switch Plate (14) ..... P-137-14

## TIME ZONE

### Single Relays

(Back Cabinet Insert)

2ND COIN ..... AS-2651-2

### Interlock Relay: see page 89

(Mounting Board)

#### DELAY

Same as DELAY,

### Single Relay (Mounting Board),

LITTLE JOE, page 57

GAME OVER ..... AS-2651-8

### Interlock Relay: see page 89

(Playfield Panel)

GATE RELAY ASSY. .... AS-2308-14

Same as GATE RELAY ASSY.,

### Single Relay (Playfield Panel),

LITTLE JOE, page 58

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## TIME ZONE

### 4 Bank (Mounting Board)

Relays as illustrated, page 49  
with variable components listed below  
TUNNEL

- Armature . . . . . P-7469
- Frame . . . . . P-7472-1
- Spring Retainer . . . . . P-7491
- Switch,
- 1st . . . . . ASW-R1X-1
- 2nd . . . . . ASW-R1-5

### START TARGETS

Same as TUNNEL, except

- Switch,
- 1st, 2nd . . . . . ASW-R1-4
- 3rd . . . . . ASW-R1-1

### EXTRA BALL TARGET

Same as START TARGETS

### COLLECT

Same as TUNNEL, except

- Switch,
- 1st . . . . . ASW-R2-1
- 2nd, 3rd . . . . . ASW-R1-3
- 4th . . . . . ASW-R1-1
- Switch Plate (4) . . . . . P-137-14

### 6 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,  
with variable components listed below  
10 POINT

- Armature . . . . . P-7469
- Eyelet (2) . . . . . M-122-19
- Frame . . . . . P-7472-2
- Grommet (2) . . . . . R-111-29
- Spring Retainer . . . . . R-7491
- Switch,
- Stack A**
- 1st, 2nd, 3rd . . . . . ASW-R1X-1
- 4th . . . . . ASW-R1-3

### Stack B

- 1st . . . . . ASW-R1-4
- 2nd . . . . . ASW-R1-1

### 100 POINT

Same as 10 POINT, except

- Switch,
- Stack A**
- 1st . . . . . ASW-R1-4
- 2nd, 3rd . . . . . ASW-R1X-1
- 4th . . . . . ASW-R1-3

### Stack B . . . . . ASW-R1-1

### 1000 POINT

Same as 10 POINT, except

- Switch,
- Stack B**
- 1st . . . . . ASW-R1X-1
- 2nd . . . . . ASW-R1-1

### SCORES RESET

- Armature . . . . . P-7469
- Frame . . . . . P-7472-1
- Spring Retainer . . . . . P-7491
- Switch,
- Stack A**
- 1st, 2nd, 3rd, 4th . . . . . ASW-R1X-1
- Stack B**
- Same as **Stack A**

## TIME ZONE

### 6 Bank (Back Cabinet Insert)

(CONTINUED FROM COLUMN ONE)

- PLAYER NO. 1
- Same as SCORES RESET, except
- Switch,
- 1st, 2nd, 3rd . . . . . ASW-R3
- 4th . . . . . ASW-R1-3
- PLAYER NO. 2
- Same as SCORES RESET, except
- Switch,
- 1st, 2nd, 3rd, 4th . . . . . ASW-R3
- Switch Plate (10) . . . . . P-137-14

### 6 Bank (Playfield Panel)

Same as 6 Bank (Playfield Panel),  
**SPACE TIME**, page 59

### 13 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below  
COIN

- Armature . . . . . P-7469
- Eyelet (2) . . . . . M-122-19
- Frame . . . . . P-7472-2
- Grommet (2) . . . . . R-111-29
- Spring Retainer . . . . . P-7491
- Switch,
- Stack A**
- 1st, 2nd, 3rd, 4th . . . . . ASW-R1-3
- Stack B**
- 1st . . . . . ASW-R1-3
- 2nd . . . . . ASW-R1-1

### 2ND COIN CHUTE

Same as COIN, except

- Switch,
- 1st, 2nd . . . . . ASW-R1-3
- 3rd . . . . . ASW-R1-1

### 3RD COIN CHUTE

Same as 2ND COIN CHUTE

- CREDIT
- Armature . . . . . P-7469
- Frame . . . . . P-7472-1
- Spring Retainer . . . . . P-7491
- Switch,
- Same as 2ND COIN CHUTE

### LOCK

Same as CREDIT, except

- Switch,
- 1st . . . . . ASW-R2-1
- 2nd, 3rd . . . . . ASW-R1-3-7
- 4th . . . . . ASW-R1-5

### RESET

Same as CREDIT, except

- Switch,
- 1st . . . . . ASW-R3-1
- 2nd . . . . . ASW-R2-1-7
- 3rd . . . . . ASW-R2-1
- 4th, 5th . . . . . ASW-R1-3
- 6th . . . . . ASW-R1-1

## TIME ZONE

### 13 Bank (CONTINUED)

- RESET
- Same as CREDIT, except
- Switch,
- Stack A**
- 1st . . . . . ASW-R2-1
- 2nd, 3rd, 4th . . . . . ASW-R1-3
- Stack B**
- 1st, 2nd . . . . . ASW-R1-3
- 3rd . . . . . ASW-R1-1

### BALL INDEX

Same as CREDIT, except

- Switch,
- 1st, 2nd . . . . . ASW-R1-3
- 3rd . . . . . ASW-R1-5

### TILT

Same as CREDIT, except

- Switch,
- 1st . . . . . ASW-R3-1
- 2nd . . . . . ASW-R2-1-7
- 3rd, 4th . . . . . ASW-R1-3
- 5th . . . . . ASW-R1-5

### EXTRA BALL

Same as CREDIT, except

- Switch,
- 1st . . . . . ASW-R2-1
- 2nd . . . . . ASW-R1-3
- 3rd . . . . . ASW-R1-5

### LEFT HOLE

Same as CREDIT, except

- Switch,
- 1st, 2nd, 3rd, 4th, 5th . . . . . ASW-R1-3
- 6th . . . . . ASW-R1-1

### RIGHT HOLE

Same as LEFT HOLE

### LEFT ALLEY

Same as CREDIT, except

- Switch,
- 1st, 2nd, 3rd . . . . . ASW-R1-3
- 4th . . . . . ASW-R1-1
- Switch Plate (15) . . . . . P-137-14

## NIP-IT

### Single Relays (Mounting Board)

- DELAY . . . . . AS-2716

Same as DELAY

### Single Relay (Mounting Board)

- LITTLE JOE, page 57
- GAME OVER . . . . . AS-2651-24

### Interlock Relays: see page 89

- OPEN FLIPPERS . . . . . AS-2659-115

As illustrated, page 49,

with variable components listed below

- Armature . . . . . P-7469
- Frame . . . . . P-7472-1
- Spring Retainer . . . . . P-7491
- Switch,
- 1st . . . . . ASW-R1-4
- 2nd . . . . . ASW-R1-1
- Switch Plate . . . . . P-137-14

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## NIP-IT

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49

with variable components listed below

#### 10 POINT

Armature	P-7469
Eyelet (2)	M-122-19
Frame	P-7472-2
Grommet (2)	R-111-29
Spring Retainer	P-7491

Switch,

#### Stack A

1st, 2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3

#### Stack B

1st	ASW-R1-4
2nd	ASW-R1-1

#### 100 POINT

Same as 10 POINT, except

Switch,

#### Stack A

1st	ASW-R1-4
2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3

#### Stack B

1st	ASW-R2-1
2nd	ASW-R1-1

#### 1000 POINT

Same as 10 POINT, except

Switch,

#### Stack B

1st	ASW-R1X-1
2nd	ASW-R1-1

#### NO. 1 SCORE RESET

Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th	ASW-R1X-1
--------------------	-----------

#### Stack B

Same as Stack A

#### NO. 2 SCORE RESET

Same as NO. 1 SCORE RESET

Switch Plate (10) P-137-14

### 7 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

LEFT YELLOW THUMPER BUMPER  
RIGHT YELLOW THUMPER BUMPER  
BOTTOM RED THUMPER BUMPER  
TOP RED THUMPER BUMPER

Above 4 Relays are identical

Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491

Switch,

1st	ASW-R1-4
2nd	ASW-R1X-1
3rd	ASW-R1-1

LIGHT RED THUMPER BUMPERS

LIGHT YELLOW THUMPER BUMPERS

Above 2 Relays are identical

Same as

LEFT YELLOW THUMPER BUMPER

except

Switch,

1st	ASW-R3-1
2nd	ASW-R1-3
3rd	ASW-R1-5

## NIP-IT

### 7 Bank (CONTINUED)

BALL GRABBER

Same as

LEFT YELLOW THUMPER BUMPER

except

Switch,

1st, 2nd	ASW-R1-3-7
3rd	ASW-R1-5

Switch Plate (7) P-137-14

### 8 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### OPEN GATE

Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491

Switch,

1st	ASW-R1X-1
2nd	ASW-R1-5

#### 500 POINT

Same as OPEN GATE, except

Switch,

1st	ASW-R2-1
2nd, 3rd	ASW-R1-3
4th	ASW-R1-1

#### BONUS SCORE

Same as OPEN GATE, except

Switch,

#### Stack A

1st, 2nd	ASW-R2-1
3rd, 4th	ASW-R1-3

#### Stack B

Same as 500 POINT

#### GATE TARGET

Same as OPEN GATE, except

Switch,

1st, 2nd	ASW-R1-4
3rd	ASW-R1-1

#### MUSHROOM BUMPER

Same as OPEN GATE, except

Switch,

1st	ASW-R1X-1
2nd	ASW-R1-4
3rd	ASW-R1-1

#### ADVANCE BONUS

Same as MUSHROOM BUMPER

#### BONUS TARGET

Same as OPEN GATE, except

Switch,

1st	ASW-R1-4
2nd	ASW-R1-1

#### BONUS HOLE

Same as OPEN GATE, except

Switch,

1st, 2nd	ASW-R3
3rd, 4th, 5th	ASW-R1-3
6th	ASW-R1-5

Switch Plate (9) P-137-14

## NIP-IT

### 15 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### COIN

Armature	P-7469
Eyelet (2)	M-122-19
Frame	P-7472-2
Grommet (2)	R-111-29
Spring Retainer	P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th	ASW-R1-3
--------------------	----------

#### Stack B

1st, 2nd	ASW-R1-3
3rd	ASW-R1-1

#### 2ND COIN CHUTE

Same as Stack B, COIN

#### 3RD COIN CHUTE

Same as COIN, except

Switch,

Stack B	ASW-R1-1
---------	----------

#### CREDIT

Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491

Switch,

1st	ASW-R2-1
2nd, 3rd	ASW-R1-4
4th	ASW-R1-1

#### LOCK

Same as CREDIT, except

Switch,

1st	ASW-R2-1
2nd, 3rd	ASW-R1-3-7
4th	ASW-R1-5

#### RESET

Same as CREDIT, except

Switch,

#### Stack A

1st	ASW-R3-1
2nd, 3rd, 4th	ASW-R1-3

#### Stack B

1st	ASW-R2-1
2nd	ASW-R2-1-7
3rd	ASW-R1-3
4th	ASW-R1-1

#### OUT HOLE

Same as CREDIT, except

Switch,

1st	ASW-R3-1
2nd, 3rd	ASW-R1-3
4th	ASW-R1-1

#### BALL INDEX

Same as CREDIT, except

Switch,

1st, 2nd	ASW-R2-1
3rd, 4th	ASW-R1-3
5th	ASW-R1-5

#### TILT

Same as CREDIT, except

Switch,

1st	ASW-R2-1-7
2nd, 3rd, 4th, 5th	ASW-R1-3
6th	ASW-R1-5

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## NIP-IT

### 15 Bank (CONTINUED)

2ND BALL  
Same as CREDIT, except  
Switch,  
1st, 2nd ..... ASW-R3  
3rd ..... ASW-R2-1  
4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-1

BALL RELEASE  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

PLAYER RESET  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R2-1  
4th ..... ASW-R1-3  
5th ..... ASW-R1-1

TOP HOLE  
Same as BALL RELEASE

LEFT ALLEY  
Same as BALL RELEASE

5000 SCORE  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-1

Switch Plate (18) ..... P-137-14

## HI-LO ACE

### Single Relays

(Mounting Board)  
GAME ..... AS-2651-33  
TILT ..... AS-2651-25

**Above 2 Relays are Interlock Relays:  
see page 89**

(Playfield Panel)  
DOWN POST ..... AS-2659-81  
Same as DOWN POST,  
**Single Relay** (Playfield Panel),  
LITTLE JOE, page 58

GATE RELAY ASSY ..... AS-2308-14  
Same as GATE RELAY ASSY.,  
**Single Relay** (Playfield Panel),  
LITTLE JOE, page 58

**4 Bank** (Back Cabinet Insert),  
Same as **4 Bank** (Back Cabinet Insert),  
ODDS & EVENS, page 61

**7 Bank** (Playfield Panel)  
Same as **7 Bank** (Playfield Panel),  
LITTLE JOE, page 58

## HI-LO ACE

### 14 Bank (Mounting Board)

Relays as illustrated, page 49,  
with variable components listed below

COIN  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491

Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

2ND COIN CHUTE  
Same as **Stack B**, COIN

3RD COIN CHUTE  
Same as **Stack B**, COIN

CREDIT  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

Switch  
Same as **Stack B**, COIN

LOCK  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-37  
4th ..... ASW-R1-5

RESET  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-17  
2nd, 3rd ..... ASW-R2-1  
4th ..... ASW-R1-3  
5th ..... ASW-R1-1

OUTHOLE  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-1

BALL INDEX  
Same as CREDIT, except  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

DELAY ..... AS-2716  
Same as DELAY,  
**Single Relay** (Mounting Board)  
LITTLE JOE, page 57

5000 POINT  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R2-1  
4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-1

500 POINT  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

## HI-LO ACE

### 14 Bank (CONTINUED)

ALTERNATOR  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd, 4th, 5th ... ASW-R3

SPECIAL  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

TRIPLE TARGET  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1-1

Switch Plate (15) ..... P-137-14

## CIRCUS

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-31  
**Interlock Relay: see page 89**

**4 Bank** (Back Cabinet Insert)  
**Interlock Relays: see page 89**

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,  
with variable components listed below

Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491

Switch,  
**Stack A**  
1st, 2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3

**Stack B**  
1st ..... ASW-R1-4  
2nd ..... ASW-R1-1

100 POINT  
Same as 10 POINT, except  
Switch,  
**Stack A**  
1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3

**Stack B**  
1st ..... ASW-R2-1  
2nd ..... ASW-R1-1

1000 POINT  
Same as 10 POINT, except  
Switch,  
**Stack B**  
1st ..... ASW-R2-1  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1

CONTINUED  
ON  
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## CIRCUS

**5 Bank** (Back Cabinet Insert)  
(CONTINUED FROM PAGE 64)  
NO. 1 SCORE RESET  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
**Stack B**  
Same as **Stack A**  
NO. 2 SCORE RESET  
Same as NO. 1 SCORE RESET  
Switch Plate (10) ..... P-137-14

**5 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below

**DOUBLE BONUS**  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd ..... ASW-R1-4  
3rd, 4th ..... ASW-R1-3

**500 POINT**  
Same as **DOUBLE BONUS**, except  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

**EXTRA BALL**  
Same as **DOUBLE BONUS**, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3

**LEFT EXTRA BALL TARGET**  
**RIGHT EXTRA BALL TARGET**

**Above 2 Relays are identical**  
Same as **DOUBLE BONUS**, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-4  
4th ..... ASW-R1-1  
Switch Plate (5) ..... P-137-14

**8 Bank** (Playfield Panel)  
Relays as illustrated, page 49,  
with variable components listed below

**BONUS ADVANCE**  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1

**THUMPER BUMPER**  
Same as **BONUS ADVANCE**, except  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1

**ALTERNATOR**  
Same as **BONUS ADVANCE**, except  
Switch,  
1st, 2nd ..... ASW-R3-1

**TOP CENTER LANE**  
Same as **BONUS ADVANCE**, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3

## CIRCUS

**8 Bank** (CONTINUED)  
**LEFT LANE**  
Same as **BONUS ADVANCE**, except  
Switch,  
1st, 2nd ..... ASW-R1-4  
3rd ..... ASW-R1-1  
**RIGHT LANE**  
Same as **LEFT LANE**  
**LIGHT LEFT LANE**  
Same as **BONUS ADVANCE**, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-5  
**LIGHT RIGHT LANE**  
Same as **LIGHT LEFT LANE**  
Switch Plate (8) ..... P-137-14

**14 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below

**COIN**  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,

**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

**2ND COIN CHUTE**  
Same as **Stack B**, **COIN**

**3RD COIN CHUTE**  
Same as **COIN**, except

Switch,  
**Stack B** ..... ASW-R1-1

**CREDIT**  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-4  
4th ..... ASW-R1-1

**LOCK**  
Same as **CREDIT**, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3-7  
4th ..... ASW-R1-5

**RESET**  
Same as **CREDIT**, except  
Switch,

**Stack A**  
1st ..... ASW-R3-1  
2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**  
1st, 2nd ..... ASW-R2-1-7  
3rd ..... ASW-R2-1  
4th ..... ASW-R1-1

**DELAY** ..... AS-2716  
Same as **DELAY**,  
**Single Relay** (Mounting Board)

**LITTLE JOE**, page 57

## CIRCUS

**14 Bank** (CONTINUED)  
**OUTHOLE**  
Same as **CREDIT**, except  
Switch,  
**Stack A**  
1st, 2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1  
**BALL INDEX**  
Same as **CREDIT**, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

**TILT**  
Same as **CREDIT**, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1-7  
3rd ..... ASW-R2-1  
4th ..... ASW-R1-3  
5th ..... ASW-R1-5

**EXTRA BALL**  
Same as **CREDIT**, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R2-1  
4th ..... ASW-R1-3  
5th ..... ASW-R1-5

**BONUS SCORE**  
Same as **Credit**, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

**BONUS ZERO**  
Same as **CREDIT**, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd, 4th, 5th ..... ASW-R1-3

**PLAYER RESET**  
Same as **CREDIT**, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-1  
Switch Plate (18) ..... P-137-14

## BIG SHOW

**Single Relay** (Mounting Board)  
**GAME OVER** ..... AS-2651-31  
**Interlock Relay**: see page 89

**3 Bank** (Back Cabinet Insert)  
**Interlock Relays**: see page 89

**5 Bank** (Mounting Board)  
Same as **5 Bank** (Mounting Board),  
**CIRCUS**, column 1, this page

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## BIG SHOW

### 6 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,  
with variable components listed below

**10 POINT**  
 Armature . . . . . P-7469  
 Eyelet (2) . . . . . M-122-19  
 Frame . . . . . P-7472-2  
 Grommet (2) . . . . . R-111-29  
 Spring Retainer . . . . . P-7491  
 Switch,

#### Stack A

1st, 2nd, 3rd . . . . . ASW-R1X-1  
 4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R1-4  
 2nd . . . . . ASW-R1-1

**100 POINT**  
 Same as 10 POINT, except

Switch,

#### Stack A

1st . . . . . ASW-R1-4  
 2nd, 3rd . . . . . ASW-R1X-1  
 4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R2-1  
 2nd . . . . . ASW-R1-1

**1000 POINT**  
 Same as 10 POINT, except

Switch,

#### Stack B

1st . . . . . ASW-R2-1  
 2nd . . . . . ASW-R1X-1  
 3rd . . . . . ASW-R1-1

### SCORES RESET

Armature . . . . . P-7469  
 Frame . . . . . P-7472-1  
 Spring Retainer . . . . . P-7491  
 Switch,

#### Stack A

1st, 2nd, 3rd, 4th . . . . . ASW-R1X-1

#### Stack B

Same as **Stack A**

**2ND PLAYER (A)**  
 Same as SCORES RESET, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R3  
 4th . . . . . ASW-R1-3

**2ND PLAYER (B)**  
 Same as SCORES RESET, except

Switch,

1st, 2nd, 3rd, 4th . . . . . ASW-R3

Switch Plate (10) . . . . . P-137-14

### 8 Bank (Playfield Panel)

Same as **8 Bank (Playfield Panel)**,  
CIRCUS, page 65

## BIG SHOW

### 13 Bank (Mounting Board)

**COIN**  
 Armature . . . . . P-7469  
 Eyelet (2) . . . . . M-122-19  
 Frame . . . . . P-7472-2  
 Grommet (2) . . . . . R-111-29  
 Spring Retainer . . . . . P-7491  
 Switch,

#### Stack A

1st, 2nd, 3rd, 4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R1-3  
 2nd . . . . . ASW-R1-4

**2ND COIN CHUTE**  
 Same as COIN, except

Switch,

1st, 2nd . . . . . ASW-R1-3  
 3rd . . . . . ASW-R1-1

**3RD COIN CHUTE**  
 Same as 2ND COIN CHUTE

### CREDIT

Armature . . . . . P-7469  
 Frame . . . . . P-7472-1  
 Spring Retainer . . . . . P-7491  
 Switch,

1st, 2nd . . . . . ASW-R1-4  
 3rd . . . . . ASW-R1-1

### LOCK

Same as CREDIT, except

Switch,

1st . . . . . ASW-R2-1  
 2nd, 3rd . . . . . ASW-R1-37  
 4th . . . . . ASW-R1-5

### RESET

Same as CREDIT, except

Switch,

#### Stack A

1st . . . . . ASW-R3-1  
 2nd . . . . . ASW-R2-1  
 3rd, 4th . . . . . ASW-R1-3

#### Stack B

1st, 2nd . . . . . ASW-R2-17  
 3rd . . . . . ASW-R1-1

**DELAY**  
 Same as DELAY,

### Single Relay (Mounting Board)

LITTLE JOE, page 57

### OUTHOLE

Same as CREDIT, except

Switch,

#### Stack A

1st, 2nd . . . . . ASW-R2-1  
 3rd, 4th . . . . . ASW-R1-3

#### Stack B

1st, 2nd . . . . . ASW-R1-3  
 3rd . . . . . ASW-R1-1

### BALL INDEX

Same as CREDIT, except

Switch,

1st . . . . . ASW-R3-1  
 2nd . . . . . ASW-R1-3  
 3rd . . . . . ASW-R1-5

## BIG SHOW

### 13 Bank (CONTINUED)

**TILT**  
 Same as CREDIT, except  
 Switch,  
 1st . . . . . ASW-R3-1  
 2nd . . . . . ASW-R2-17  
 3rd . . . . . ASW-R2-1  
 4th . . . . . ASW-R3-1  
 5th . . . . . ASW-R1-5

### EXTRA BALL

Same as CREDIT, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R2-1  
 4th . . . . . ASW-R1-3  
 5th . . . . . ASW-R1-5

### BONUS SCORE

Same as CREDIT, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R1-3  
 4th . . . . . ASW-R1-1

### BONUS ZERO

Same as CREDIT, except

Switch,

1st . . . . . ASW-R3-1  
 2nd . . . . . ASW-R2-1  
 3rd, 4th, 5th . . . . . ASW-R1-3

Switch Plate (16) . . . . . P-137-14

## CHAMP

### Single Relay (Mounting Board)

GAME OVER . . . . . AS-2651-24  
**Interlock Relay: see page 89**

### 4 Bank (Back Cabinet Insert)

**Interlock Relays: see page 89**

### 5 Bank (Back Cabinet Insert)

Same as **5 Bank (Back Cabinet Insert)**,  
NIP-IT, page 63

### 5 Bank (Playfield Panel)

Relays as illustrated, page 49,  
with variable components listed below

### BONUS ADVANCE

Armature . . . . . P-7469  
 Frame . . . . . P-7472-1  
 Spring Retainer . . . . . P-7491  
 Switch,

1st . . . . . ASW-R1X-1  
 2nd . . . . . ASW-R1-1

### YELLOW THUMPER BUMPER

### GREEN THUMPER BUMPER

### Above 2 Relays are identical

Same as BONUS ADVANCE, except

Switch,

1st . . . . . ASW-R1-4  
 2nd . . . . . ASW-R1X-1  
 3rd . . . . . ASW-R1-1

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## CHAMP

### 5 Bank (Playfield Panel)

(CONTINUED FROM PAGE 66)

#### 15,000 BONUS

Same as BONUS ADVANCE, except

Switch,

1st, 2nd, 3rd, 4th, 5th . . . ASW-R1-3

#### SPINNER

Same as BONUS ADVANCE, except

Switch,

1st . . . . . ASW-R1-4

2nd . . . . . ASW-R1X-1

3rd . . . . . ASW-R1-3

4th . . . . . ASW-R1-1

Switch Plate (5) . . . . . P-137-14

### 7 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### DOUBLE BONUS

Armature . . . . . P-7469

Frame . . . . . P-7472-1

Spring Retainer . . . . . P-7491

Switch,

1st, 2nd . . . . . ASW-R1-3

#### SPECIAL

Same as DOUBLE BONUS, except

Switch,

1st . . . . . ASW-R1X-1

2nd . . . . . ASW-R1-1

#### YELLOW LANE 500

#### GREEN LANE 500

**Above 2 Relays are identical**

Same as DOUBLE BONUS, except

Switch,

1st . . . . . ASW-R1-4

2nd, 3rd . . . . . ASW-R1-3

4th . . . . . ASW-R1-1

#### LIGHT YELLOW LANE

#### LIGHT GREEN LANE

**Above 2 Relays are identical**

Same as DOUBLE BONUS, except

Switch,

1st . . . . . ASW-R3-1

2nd, 3rd . . . . . ASW-R1-3

4th . . . . . ASW-R1-5

#### TOP HOLE

Same as DOUBLE BONUS, except

Switch,

1st, 2nd, 3rd, 4th, 5th . . . ASW-R1-3

6th . . . . . ASW-R1-5

Switch Plate (7) . . . . . P-137-14

### 14 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### COIN

Armature . . . . . P-7469

Eyelet (2) . . . . . M-122-19

Frame . . . . . P-7472-2

Grommet (2) . . . . . R-111-29

Spring Retainer . . . . . P-7491

Switch,

**Stack A**

1st, 2nd, 3rd, 4th . . . . . ASW-R1-3

**Stack B**

1st, 2nd . . . . . ASW-R1-3

3rd . . . . . ASW-R1-1

## CHAMP

### 14 Bank (CONTINUED)

#### 2ND COIN CHUTE

Same as **Stack B, COIN**

#### 3RD COIN CHUTE

Same as COIN, except

Switch,

**Stack B** . . . . . ASW-R1-1

#### CREDIT

Armature . . . . . P-7469

Frame . . . . . P-7472-1

Spring Retainer . . . . . P-7491

Switch,

1st . . . . . ASW-R2-1

2nd, 3rd . . . . . ASW-R1-4

4th . . . . . ASW-R1-1

#### LOCK

Same as CREDIT, except

Switch,

1st . . . . . ASW-R2-1

2nd, 3rd . . . . . ASW-R1-37

4th . . . . . ASW-R1-5

#### RESET

Same as CREDIT, except

Switch,

**Stack A**

1st . . . . . ASW-R3-1

2nd, 3rd, 4th . . . . . ASW-R1-3

**Stack B**

1st, 2nd . . . . . ASW-R2-17

3rd . . . . . ASW-R2-1

4th . . . . . ASW-R1-1

#### DELAY . . . . . AS-2716

Same as DELAY,

**Single Relay (Mounting Board),**

**LITTLE JOE, page 57**

#### OUTHOLE

Same as CREDIT, except

Switch,

**Stack A**

1st, 2nd . . . . . ASW-R2-1

3rd, 4th . . . . . ASW-R1-3

**Stack B**

1st, 2nd . . . . . ASW-R1-3

3rd . . . . . ASW-R1-1

#### BALL INDEX

Same as CREDIT, except

Switch,

1st . . . . . ASW-R3-1

2nd . . . . . ASW-R1-3

3rd . . . . . ASW-R1-5

#### TILT

Same as CREDIT, except

Switch,

1st . . . . . ASW-R2-17

2nd . . . . . ASW-R2-1

3rd, 4th, 5th . . . . . ASW-R1-3

6th . . . . . ASW-R1-5

#### EXTRA BALL

Same as CREDIT, except

Switch,

1st, 2nd . . . . . ASW-R2-1

3rd . . . . . ASW-R1-3

4th . . . . . ASW-R1-5

#### BONUS SCORE

Same as CREDIT, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R1-3

4th . . . . . ASW-R1-1

## CHAMP

### 14 Bank (CONTINUED)

#### BONUS ZERO

Same as CREDIT, except

Switch,

1st . . . . . ASW-R3-1

2nd . . . . . ASW-R2-1

3rd, 4th, 5th . . . . . ASW-R1-3

#### PLAYER RESET

Same as CREDIT, except

Switch,

1st . . . . . ASW-R3-1

2nd . . . . . ASW-R1-1

Switch Plate (18) . . . . . P-137-14

## TWIN WIN

### Single Relays (Mounting Board)

GAME OVER . . . . . AS-2651-24

**Interlock Relays: see page 89**

GREEN SPECIAL LIGHT . . AS-2659-126

As illustrated, page 49,

with variable components listed below

Armature . . . . . P-7469

Frame . . . . . P-7472-1

Spring Retainer . . . . . P-7491

Switch,

1st, 2nd . . . . . ASW-R1-3

3rd . . . . . ASW-R1-5

Switch Plate . . . . . P-137-14

#### SPECIAL CONTROL

Same as GREEN SPECIAL LIGHT

except

Switch,

1st, 2nd . . . . . ASW-R2-1

3rd . . . . . ASW-R1-5

### 4 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

2ND COIN . . . . . AS-2651-35

**Interlock Relays: see page 89**

#### 2ND PLAYER (A)

Armature . . . . . P-7469

Frame . . . . . P-7472-1

Spring Retainer . . . . . P-7491

Switch,

1st, 2nd, 3rd, 4th . . . . . ASW-R3

5th, 6th . . . . . ASW-R1-3

#### 2ND PLAYER (B)

Same as 2ND PLAYER (A), except

Switch,

1st, 2nd, 3rd, 4th, 5th, 6th . ASW-R3

#### 2ND PLAYER (C)

Same as 2ND PLAYER (B)

Switch Plate (4) . . . . . P-137-14

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## TWIN WIN

### 7 Bank (Playfield Insert)

Relays as illustrated, page 49,  
with variable components listed below

#### 10 POINT

Armature . . . . . P-7469  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-2  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . P-7491

Switch,

#### Stack A

1st, 2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R1-4  
2nd . . . . . ASW-R1-1

#### 100 POINT

Same as 10 POINT, except

Switch,

#### Stack A

1st . . . . . ASW-R1-4  
2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R2-1  
2nd . . . . . ASW-R1-1

#### 1000 POINT

Same as 10 POINT, except

Switch,

#### Stack B

1st, 2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-1

#### NO. 1 SCORE RESET

Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th . . . . . ASW-R1X-1

#### Stack B

Same as Stack A

#### NO. 2 SCORE RESET

Same as NO. 1 SCORE RESET, except

Switch,

#### Stack B

1st, 2nd . . . . . ASW-R1X-1

#### YELLOW LAPS ADVANCE

#### GREEN LAPS ADVANCE

#### Above 2 Relays are identical

Same as NO. 1 SCORE RESET, except

Switch,

1st, 2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-1

Switch Plate (12) . . . . . P-137-14

### 8 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### SPECIAL

Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491

Switch,

1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-1

## TWIN WIN

### 8 Bank (Mounting Board)

(CONTINUED FROM COLUMN 1)

#### EXTRA BALL

Same as SPECIAL, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R2-1  
4th, 5th . . . . . ASW-R1-3  
6th . . . . . ASW-R1-5

#### EXTRA BALL LIGHT

Same as SPECIAL, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R1-3

#### YELLOW SPECIAL LIGHT

Same as SPECIAL, except

Switch,

1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-5

#### YELLOW BONUS ZERO

#### GREEN BONUS ZERO

#### Above 2 Relays are identical

Same as SPECIAL, except

Switch,

1st, 2nd . . . . . ASW-R2-1  
3rd, 4th . . . . . ASW-R1-3

#### LEFT EXTRA BALL MUSHROOM BUMPER

#### RIGHT EXTRA BALL MUSHROOM BUMPER

#### Above 2 Relays are identical

Same as SPECIAL, except

Switch,

1st, 2nd, 3rd . . . . . ASW-R1-4  
4th . . . . . ASW-R1-1

Switch Plate (8) . . . . . P-137-14

### 8 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

#### YELLOW THUMPER BUMPER

#### GREEN THUMPER BUMPER

#### YELLOW CAR ADVANCE

#### GREEN CAR ADVANCE

#### Above 4 Relays are identical

Armature . . . . . ASW-R-7469

Frame . . . . . ASW-P-7472-1

Spring Retainer . . . . . ASW-P-7491

Switch,

1st . . . . . ASW-R1-4  
2nd . . . . . ASW-R1X-1  
3rd . . . . . ASW-R1-1

#### CAR ADVANCE

Same as YELLOW THUMPER BUMPER,

except

Switch,

1st . . . . . ASW-R1-4  
2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-1

#### 3 CAR ADVANCE

Same as YELLOW THUMPER BUMPER,

except

Switch,

1st, 2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1

#### 5 CAR ADVANCE

Same as YELLOW THUMPER BUMPER,

except

Switch,

Stack A  
1st, 2nd, 3rd, 4th . . . . . ASW-R1-3

Stack B . . . . . ASW-R1-1

## TWIN WIN

### 8 Bank (Playfield Panel)

(CONTINUED FROM COLUMN 2)

#### ALTERNATOR

Same as YELLOW THUMPER BUMPER,

except

Switch,

1st, 2nd, 3rd, 4th . . . . . ASW-R-3  
Switch Plate (9) . . . . . P-137-14

### 15 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

#### COIN

Armature . . . . . P-7469

Eyelet (2) . . . . . M-122-19

Frame . . . . . P-7472-2

Grommet (2) . . . . . R-111-29

Spring Retainer . . . . . P-7491

Switch,

#### Stack A

1st, 2nd, 3rd, 4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-1

#### 2ND COIN CHUTE

Same as COIN, except

Switch,

1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-1

#### 3RD COIN CHUTE

Same as 2ND COIN CHUTE

#### CREDIT

Armature . . . . . P-7469

Frame . . . . . P-7472-1

Spring Retainer . . . . . P-7491

Switch,

1st, 2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1

#### LOCK

Same as CREDIT, except

Switch,

1st . . . . . ASW-R2-1  
2nd, 3rd . . . . . ASW-R1-37  
4th . . . . . ASW-R1-5

#### RESET

Same as CREDIT, except

Switch,

Stack A  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1  
3rd, 4th . . . . . ASW-R1-3

#### Stack B

1st . . . . . ASW-R2-17  
2nd, 3rd . . . . . ASW-R2-1  
4th . . . . . ASW-R1-1

DELAY . . . . . AS-2716

Same as DELAY

### Single Relay (Mounting Board)

LITTLE JOE, page 57

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## TWIN WIN

**15 Bank** (Mounting Board)  
(CONTINUED FROM PAGE 68)  
OUTHOLE

Same as CREDIT, except  
Switch,

### Stack A

1st ..... ASW-R2-1  
2nd, 3rd, 4th ..... ASW-R1-3

### Stack B

1st, 2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1

## BALL INDEX

Same as CREDIT, except  
Switch,

1st ..... ASW-R3-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

## TILT

Same as CREDIT, except  
Switch,

1st ..... ASW-R3-1  
2nd ..... ASW-R2-17  
3rd, 4th ..... ASW-R1-3  
5th ..... ASW-R1-5

## BALL SHOOTER

Same as CREDIT, except  
Switch,

1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

## YELLOW HOLE

Same as CREDIT, except  
Switch,

1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

## GREEN HOLE

Same as YELLOW HOLE  
YELLOW BONUS

Same as CREDIT, except  
Switch,

1st ..... ASW-R2-1  
2nd, 3rd, 4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-1

## GREEN BONUS

Same as YELLOW BONUS

Switch Plate (18) ..... P-137-14

## SKY KINGS

### Single Relays

(Back Cabinet Insert)

100,000 POINT ..... AS-2651-28

**Interlock Relays: see page 89**

(Mounting Board)

GAME ..... AS-2651-17

GAME OVER ..... AS-2651-39

TILT ..... AS-2651-40

**Above 3 Relays are Interlock Relays  
see page 89**

## SKY KINGS

### 4 Bank

(Back Cabinet Insert)  
Relays as illustrated, page 49,  
with variable components listed below

#### 10 POINT

Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491

#### Switch,

##### Stack A

1st, 2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R1-3

##### Stack B

1st ..... ASW-R1-4  
2nd ..... ASW-R1-1

#### 100 POINT

Same as 10 POINT, except

#### Switch,

##### Stack A

1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1X-1  
4th ..... ASW-R13

##### Stack B

1st ..... ASW-R2-1  
2nd ..... ASW-R1-1

#### 1000 POINT

Same as 10 POINT, except

#### Switch,

##### Stack B

1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1

#### SCORE RESET

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1X-1

### 5 Bank

(Playfield Panel)  
Same as 5 Bank (Playfield Panel),  
CHAMP, page 66

### 7 Bank

(Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below

#### DOUBLE BONUS ..... AS-2659-151

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

#### Switch,

1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

#### SPECIAL

Same as DOUBLE BONUS, except

#### Switch,

1st ..... ASW-R1X-1  
2nd ..... ASW-R1-1

#### YELLOW LANE 500 ..... AS-2659-152

Same as DOUBLE BONUS, except

#### Switch,

1st ..... ASW-R1-4  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

#### GREEN LANE 500 ..... AS-2659-152

Same as YELLOW LANE 500

## SKY KINGS

### 7 Bank

(CONTINUED)

#### LIGHT YELLOW LANE ... AS-2659-153

Same as DOUBLE BONUS, except

Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-5

#### LIGHT GREEN LANE ..... ASW-2659-153

Same as LIGHT YELLOW LANE

#### TOP HOLE ..... AS-2661-6

Same as DOUBLE BONUS, except

Switch,  
1st, 2nd, 3rd, 4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-5

#### Switch Plate (7) ..... P-137-14

### 14 Bank

(Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below

#### COIN ..... AS-2662-135

Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491

#### Switch,

##### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R1-3

##### Stack B

1st ..... ASW-R1-3  
2nd ..... ASW-R1-1

#### 2ND COIN CHUTE ..... AS-2659-142

Same as COIN, except

#### Switch,

1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

#### 3RD COIN CHUTE ..... AS-2659-142

Same as 2ND COIN CHUTE

#### CREDIT ..... AS-2659-150

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491

#### Switch,

Same as 2ND COIN CHUTE

#### LOCK ..... AS-2659-140

Same as CREDIT, except

#### Switch,

1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-37  
4th ..... ASW-R1-5

#### RESET ..... AS-2662-137

Same as CREDIT, except

#### Switch,

##### Stack A

1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3

##### Stack B

1st ..... ASW-R2-17  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1

#### DELAY ..... AS-2716

Same as DELAY,

Single Relay (Mounting Board)

LITTLE JOE, page 57

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## SKY KINGS

**14 Bank (CONTINUED)**  
 OUTHOLE ..... AS-2662-136  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st, 2nd ..... ASW-R2-1  
 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1  
 BALL INDEX ..... AS-2659-153  
 Same as LIGHT YELLOW LANE,  
**7 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 SINGLE EXTRA BALL ..... AS-2659-149  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd ..... ASW-R2-1  
 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1  
 BONUS SCORE ..... AS-2660-12  
 Same as CREDIT, except  
 Switch,  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
 BONUS ZERO ..... AS-2660-15  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1  
 3rd, 4th, 5th ..... ASW-R1-3  
 MULTIPLE EXTRA BALL ..... AS-2659-148  
 Same as CREDIT, except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1  
 5000 ..... AS-2659-150  
 Same as CREDIT,  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 Switch Plate (17) ..... P-137-14

## AMIGO

**Single Relay (Mounting Board)**  
 GAME OVER ..... AS-2651-24  
**Interlock Relay: see page 89**  
**4 Bank (Back Cabinet Insert)**  
**Interlock Relays: see page 89**  
**5 Bank (Back Cabinet Insert)**  
 Same as 5 Bank (Back Cabinet Insert)  
 NIP-IT, page 63  
**7 Bank (Playfield Panel)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
 ADVANCE BONUS  
 LEFT THUMPER BUMPER  
 CENTER THUMPER BUMPER  
 RIGHT THUMPER BUMPER  
**Above 4 Relays are identical**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1X-1  
 3rd ..... ASW-R1-1

## AMIGO

**7 Bank (CONTINUED)**  
 EXTRA BALL LIGHT  
 Same as ADVANCE BONUS, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 SPECIAL LIGHT  
 Same as ADVANCE BONUS, except  
 Switch,  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-3  
 FREE BALL GATE  
 Same as ADVANCE BONUS, except  
 Switch,  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-5  
 Switch Plate (7) ..... P-137-14

**8 Bank (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
 LIGHT LEFT  
 THUMPER BUMPER LANE  
 LIGHT RIGHT  
 THUMPER BUMPER LANE  
**Above 2 Relays are identical**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
 DOUBLE BONUS  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE,  
 except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 SPINNER LIGHT  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE  
 SPINNER  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE,  
 except  
 Switch,  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1-1  
 500 POINT  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE,  
 except  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1  
 EXTRA BALL TARGET  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE,  
 except  
 Switch,  
 1st, 2nd ..... ASW-R1-4  
 3rd ..... ASW-R1-1

## AMIGO

**8 Bank (CONTINUED)**  
 HOLE  
 Same as LIGHT LEFT  
 THUMPER BUMPER LANE,  
 except  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1-3  
 2nd ..... ASW-R1-1  
 Switch Plate (9) ..... P-137-14  
**14 Bank (Mounting Board)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
 COIN ..... AS-2662-128  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
 2ND COIN CHUTE ..... AS-2659-142  
 Same as 2ND COIN,  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 CREDIT ..... AS-2659-141  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-1  
 LOCK ..... AS-2659-140  
 Same as LOCK,  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 RESET ..... AS-2662-127  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R2-17  
 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-1  
 DELAY ..... AS-2716  
 Same as DELAY,  
**Single Relay (Mounting Board)**  
 LITTLE JOE, page 57  
 OUTHOLE ..... AS-2662-153  
 Same as CREDIT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## AMIGO

**14 Bank (CONTINUED)**

BALL INDEX ..... AS-2661-7  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd, 4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-5

TILT ..... AS-2661-8  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R2-17  
2nd, 3rd, 4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-5

EXTRA BALL ..... AS-2659-49  
Same as EXTRA BALL,  
**Single Relay (Mounting Board),**  
EXPRESSWAY, page 52

BONUS SCORE ..... AS-2659-135  
Same as CREDIT, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

BONUS ZERO ..... AS-2659-168  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3

DOWN POST ..... AS-2659-167  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R1X-1  
2nd ..... ASW-R1-4

PLAYER RESET ..... AS-2659-136  
Same as CREDIT, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-1

Switch Plate (16) ..... P-137-14

## DELTA QUEEN

**Single Relays**  
(Back Cabinet Insert)

100,000 POINT ..... AS-2651-28  
**Interlock Relay: see page 89**

(Mounting Board)

GAME OVER ..... AS-2651-6  
**Interlock Relay: see page 89**

**4 Bank (Back Cabinet Insert)**  
Same as **4 Bank (Back Cabinet Insert)**,  
ODDS & EVENS, page 61

**5 Bank (Mounting Board)**  
Relays as illustrated, page 49,  
with variable components listed below

GAME ..... AS-2651-17  
TILT ..... AS-2651-38  
**Above 2 Relays are Interlock Relays:**  
**see page 89**

2X  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd ..... ASW-R2-1  
3rd ..... ASW-R1-5

## DELTA QUEEN

**5 Bank (CONTINUED)**

4X  
Same as 2X, except  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

SPECIAL  
Same as 2X, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1

Switch Plate (5) ..... ASW-137-14

**6 Bank (Mounting Board)**  
Relays as illustrated, page 49,  
with variable components listed below

LIGHT LEFT THUMPER BUMPER  
LIGHT RIGHT THUMPER BUMPER  
**Above 2 Relays are identical**

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R1-3  
3rd ..... ASW-R1-5

CREDIT  
Same as  
LIGHT LEFT THUMPER BUMPER,  
except  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

3RD COIN SWITCH  
Armature ..... P-7469  
Eyelet (2) ..... M-122-19  
Frame ..... P-7472-2  
Grommet (2) ..... R-111-29  
Spring Retainer ..... P-7491  
Switch,  
Same as CREDIT

2ND COIN CHUTE  
Same as 3RD COIN CHUTE

COIN  
Same as 3RD COIN CHUTE, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R1-3  
2nd ..... ASW-R1-1

Switch Plate (7) ..... P-137-14

**8 Bank (Playfield Panel)**  
Relays as illustrated, page 49,  
with variable components listed below

ADVANCE BONUS  
LEFT THUMPER BUMPER  
CENTER THUMPER BUMPER  
RIGHT THUMPER BUMPER  
ROLLOVER BUTTON  
**Above 5 Relays are identical**

Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-1

## DELTA QUEEN

**8 Bank (CONTINUED)**

"A"  
Same as ADVANCE BONUS, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-5

"B"  
Same as "A"

TOP CENTER LANE  
Same as ADVANCE BONUS, except  
Switch,  
**Stack A**  
1st, 2nd ..... ASW-R1-4  
3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R1-4  
2nd ..... ASW-R1-1

Switch Plate (9) ..... P-137-14

**14 Bank (Mounting Board)**  
Relays as illustrated, page 49,  
with variable components listed below

500 POINT  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

5,000 POINT  
Same as 500 POINT, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R2-1  
4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-1

BONUS SCORE  
Same as 500 POINT, except  
Switch,  
**Stack A**  
1st, 2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st, 2nd ..... ASW-R1-3  
3rd ..... ASW-R1-1

ALTERNATOR  
Same as 500 POINT, except  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R3  
5th ..... ASW-R1-3

LOCK  
Same as 500 POINT, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-37  
4th ..... ASW-R1-5

RESET  
Same as 500 POINT, except  
Switch,  
**Stack A**  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd, 4th ..... ASW-R1-3  
**Stack B**  
1st ..... ASW-R2-17  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## DELTA QUEEN

**14 Bank** (CONTINUED)  
 DELAY ..... AS-2716  
 Same as DELAY,  
**Single Relay** (Mounting Board),  
 LITTLE JOE, page 57  
 OUTHOLE  
 Same as 500 POINT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R2-1  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
 BALL INDEX  
 Same as 500 POINT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
 EXTRA BALL  
 Same as 500 POINT, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R2-1  
 4th ..... ASW-R1-3  
 5th ..... ASW-R1-5  
 CONTROL  
 Same as 500 POINT, except  
 Switch,  
 1st ..... ASW-R3-1  
 2nd, 3rd, 4th ..... ASW-R2-1  
 5th ..... ASW-R1-3  
 6th ..... ASW-R1-1  
 OUT BONUS  
 Same as 500 POINT, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-1  
 BONUS HOLE  
 Same as 500 POINT, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-1  
 CENTER HOLE  
 Same as 500 POINT, except  
 Switch,  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
 Switch Plate (17) ..... P-137-14

## ROGO

### Single Relays

(Mounting Board)

GAME OVER ..... AS-2651-1

**Interlock Relay:** see page 90

(Playfield Panel)

GATE RELAY ASSY ..... AS-2308-14

Same as GATE RELAY ASSY.

**Single Relay** (Mounting Board),

LITTLE JOE, page 58

**4 Bank** (Back Cabinet Insert)

**Interlock Relays:** see page 90

## ROGO

**5 Bank** (Back Cabinet Insert)

Same as **5 Bank** (Back Cabinet Insert),  
 NIP-IT, page 63

**6 Bank** (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

LIGHT RIGHT THUMPER BUMPER . AS-2659-139

LIGHT LEFT THUMPER BUMPER . . AS-2659-139

**Above 2 Relays are identical**

Armature ..... P-7469

Frame ..... P-7472-1

Spring Retainer ..... P-7491

Switch,

1st ..... ASW-R3-1

2nd ..... ASW-R1-3

3rd ..... ASW-R1-5

EXTRA BALL TARGET . . . AS-2659-137

Same as

LIGHT RIGHT THUMPER BUMPER

except

Switch,

1st, 2nd ..... ASW-R1-4

3rd ..... ASW-R1-1

PLAYER RESET ..... AS-2659-136

Same as PLAYER RESET,

**14 Bank** (Mounting Board),

AMIGO, page 71

BONUS SCORE ..... AS-2659-135

Same as BONUS SCORE,

**14 Bank** (Mounting Board),

AMIGO, page 71

BONUS ZERO ..... AS-2662-123

Same as

LIGHT RIGHT THUMPER BUMPER,

except

Switch,

**Stack A**

1st ..... ASW-R3-1

2nd ..... ASW-R2-1

3rd, 4th ..... ASW-R1-3

**Stack B**

1st ..... ASW-R2-1

2nd, 3rd ..... ASW-R1-3

Switch Plate (7) ..... P-137-14

**6 Bank** (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

RIGHT THUMPER BUMPER. AS-2659-134

LEFT THUMPER BUMPER . . AS-2659-134

**Above 2 Relays are identical**

Armature ..... P-7469

Frame ..... P-7472-1

Spring Retainer..... P-7491

Switch,

1st ..... ASW-R1-4

2nd ..... ASW-R1X-1

3rd ..... ASW-R1-1

5000 POINT ..... AS-2660-12

Same as BONUS SCORE,

**14 Bank** (Mounting Board),

SKY KINGS, page 70

ADVANCE ..... AS-2659-133

Same as

RIGHT THUMPER BUMPER,

except

Switch,

1st, 2nd ..... ASW-R1-4

3rd ..... ASW-R1X-1

4th ..... ASW-R1-1

## ROGO

**6 Bank** (Playfield Panel)

(CONTINUED FROM COLUMN 2)

TOP HORSE SHOE ..... AS-2659-132

Same as

RIGHT THUMPER BUMPER,

except

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R1-3

4th ..... ASW-R1-1

TOP LANE ..... AS-2660-11

Same as

RIGHT THUMPER BUMPER,

except

Switch,

1st, 2nd, 3rd ..... ASW-R1-4

4th ..... ASW-R1X-1

5th ..... ASW-R1-1

Switch Plate (6) ..... P-137-14

**14 Bank** (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

COIN ..... AS-2662-128

Same as COIN,

**14 Bank** (Mounting Board),

AMIGO, page 70

2ND COIN CHUTE ..... AS-2659-142

Same as 2ND COIN CHUTE,

**14 Bank** (Mounting Board),

SKY KINGS, page 69

3RD COIN CHUTE ..... AS-2662-129

Armature ..... P-7469

Eyelet (2) ..... M-122-19

Frame ..... P-7472-2

Grommet (2) ..... R-111-29

Spring Retainer..... P-7491

Switch,

**Stack A**

1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B** ..... ASW-R1-1

CREDIT ..... AS-2659-141

Same as CREDIT

**14 Bank** (Mounting Board),

AMIGO, page 70

LOCK ..... AS-2659-140

Same as LOCK,

**14 Bank** (Mounting Board),

SKY KINGS, page 67

RESET ..... AS-2662-127

Same as RESET,

**14 Bank** (Mounting Board),

AMIGO, page 70

DELAY ..... AS-2716

Same as DELAY,

**Single Relay** (Mounting Board),

LITTLE JOE, page 57

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## ROGO

### 14 Bank (CONTINUED)

OUTHOLE	AS-2662-126
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st, 2nd	ASW-R2-1
3rd, 4th	ASW-R1-3
<b>Stack B</b>	
1st, 2nd	ASW-R1-3
3rd	ASW-R1-1
BALL INDEX	AS-2659-139
Same as	
LIGHT RIGHT THUMPER BUMPER,	
6 Bank (Mounting Board),	
ROGO, page 72	
TILT	AS-2661-4
Same as OUTHOLE, except	
Switch,	
1st	ASW-R2-17
2nd	ASW-R2-1
3rd, 4th, 5th	ASW-R1-3
6th	ASW-R1-5
EXTRA BALL	AS-2659-146
Same as OUTHOLE, except	
Switch,	
1st, 2nd	ASW-R2-1
3rd	ASW-R1-3
4th	ASW-R1-5
LEFT HOLE	AS-2662-124
Same as OUTHOLE, except	
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd, 4th	ASW-R1-3
<b>Stack B</b>	
1st, 2nd	ASW-R1-3
3rd	ASW-R1-1
RIGHT HOLE	AS-2662-124
Same as LEFT HOLE	
LEFT ALLEY	AS-2661-5
Same as OUTHOLE, except	
Switch,	
1st, 2nd, 3rd, 4th, 5th	ASW-R1-3
6th	ASW-R1-1
Switch Plate (20)	P-137-5

## BON VOYAGE

### Single Relays

(Back Cabinet Insert)	
100,000	AS-2651-41
<b>Interlock Relay: see page 90</b>	
(Mounting Board)	
GAME	AS-2651-17
<b>Interlock Relay: see page 90</b>	

## BON VOYAGE

### 4 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,	
with variable components listed below	
10 POINT	AS-2662-122
Armature	P-7469
Eyelet (2)	M-122-19
Frame	P-7472-2
Grommet (2)	R-111-29
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3
<b>Stack B</b>	
1st	ASW-R1-4
2nd	ASW-R1-1
100 POINT	AS-2662-168
Same as 10 POINT, except	
Switch,	
<b>Stack A</b>	
1st	ASW-R1-4
2nd, 3rd	ASW-R1X-1
4th	ASW-R1-3
<b>Stack B</b>	
1st	ASW-R1-1
1000 POINT	AS-2662-120
Same as 10 POINT, except	
Switch,	
<b>Stack B</b>	
1st	ASW-R1X-1
2nd	ASW-R1-1
SCORE RESET	AS-2659-154
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st, 2nd, 3rd, 4th	ASW-R1X-1
Switch Plate (7)	P-137-14

### 4 Bank (Mounting Board)

Relays as illustrated, page 49,	
with variable components listed below	
TILT	AS-2651
<b>Interlock Relay: see page 90</b>	
BON	AS-2659-184
VOY	AS-2659-184
AGE	AS-2659-184
<b>Above 3 Relays are identical</b>	
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
1st, 2nd, 3rd, 4th	ASW-R1-3
Switch Plate (4)	P-137-14

### 5 Bank (Playfield Panel)

SPINNER	AS-2659-167
Same as DOWN POST,	
14 Bank (Mounting Board),	
AMIGO, page 71	
LEFT THUMPER BUMPER	AS-2659-134
RIGHT THUMPER BUMPER	AS-2659-134
<b>Above 2 Relays are identical</b>	
Same as RIGHT THUMPER BUMPER,	
6 Bank (Playfield Panel),	
ROGO, page 72	
500 POINT	AS-2659-150
Same as CREDIT,	
14 Bank (Mounting Board),	
SKY KINGS, page 69	

## BON VOYAGE

### 5 Bank (CONTINUED)

HOLE	AS-2659-135
Same as BONUS SCORE,	
14 Bank (Mounting Board)	
AMIGO, page 71	
Switch Plate (5)	P-137-14
<b>14 Bank (Mounting Board)</b>	
Relays as illustrated, page 49,	
with variable components listed below	
COIN	AS-2662-128
Same as COIN,	
14 Bank (Mounting Board),	
AMIGO, page 70	
2ND COIN CHUTE	AS-2659-142
Same as 2ND COIN CHUTE,	
14 Bank (Mounting Board)	
SKY KINGS, page 69	
3RD COIN CHUTE	AS-2659-142
Same as 2ND COIN CHUTE	
CREDIT	AS-2659-150
Same as CREDIT,	
14 Bank (Mounting Board)	
SKY KINGS, page 69	
LOCK	AS-2659-140
Same as LOCK,	
14 Bank (Mounting Board)	
SKY KINGS, page 69	
RESET	AS-2662-170
Armature	P-7469
Frame	P-7472-1
Spring Retainer	P-7491
Switch,	
<b>Stack A</b>	
1st	ASW-R3-1
2nd	ASW-R2-1
3rd	ASW-R1-3
<b>Stack B</b>	
1st	ASW-R2-17
2nd	ASW-R2-1
3rd	ASW-R1-1
OUTHOLE	AS-2662-169
Same as RESET, except	
Switch,	
<b>Stack A</b>	
1st, 2nd, 3rd	ASW-R2-1
3rd	ASW-R1-3
<b>Stack B</b>	
1st, 2nd	ASW-R1-3
3rd	ASW-R1-1
BALL INDEX	AS-2660-16
Same as RESET, except	
Switch,	
1st	ASW-R3-1
2nd, 3rd, 4th	ASW-R1-3
5th	ASW-R1-5
DELAY	AS-2716
Same as DELAY	
Single Relay (Mounting Board),	
LITTLE JOE, page 57	
NO. 1 BONUS	AS-265-135
Same as BONUS SCORE,	
14 Bank (Mounting Board),	
AMIGO, page 71	
NO. 2 BONUS	AS-2659-132
Same as TOP HORSE SHOE,	
6 Bank (Playfield Panel),	
ROGO, page 72	

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## BON VOYAGE

**14 Bank (CONTINUED)**  
SPOT ..... AS-2660-12  
Same as BONUS SCORE,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 70  
3000 POINT ..... AS-2659-195  
Same as RESET, except  
Switch,  
1st ..... ASW-R2-1  
2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-1  
SPECIAL ..... AS-2660-12  
Same as SPOT  
Switch Plate (17) ..... P-137-14

## BOOMERANG

**Single Relay (Mounting Board)**  
GAME OVER ..... AS-2651-24  
**Interlock Relay: see page 90**

**4 Bank (Back Cabinet Insert)**  
**Interlock Relays: see page 90**

**5 Bank (Back Cabinet Insert)**  
Same as **5 Bank (Back Cabinet Insert),**  
NIP-IT, page 63

**5 Bank (Mounting Board)**  
Relays as illustrated, page 49,  
with variable components listed below  
SPECIAL ..... AS-2659-117  
Same as SPECIAL,  
**7 Bank (Mounting Board),**  
SKY KINGS, page 69  
DOUBLE BONUS ..... AS-2659-179  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st, 2nd ..... ASW-R1-3  
CREDIT ..... AS-2659-150  
Same as CREDIT,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 69  
PLAYER RESET ..... AS-2659-136  
Same as RESET,  
**14 Bank (Mounting Board),**  
AMIGO, page 71  
TOP HOLE ..... AS-2659-178  
Same as DOUBLE BONUS, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R1-3  
4th ..... ASW-R1-5  
Switch Plate (5) ..... P-137-14

**8 Bank (Playfield Panel)**  
Relays as illustrated, page 49,  
with variable components listed below  
SPINNER ..... AS-2659-147  
Armature ..... P-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R1-4  
2nd ..... ASW-R1X-1  
3rd ..... ASW-R1-3  
4th ..... ASW-R1-1

## BOOMERANG

**8 Bank (CONTINUED)**  
15,000 BONUS ..... AS-2659-175  
Same as SPINNER, except  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R1-3  
"A" ..... AS-2659-174  
"B" ..... AS-2659-174  
"C" ..... AS-2659-174  
"D" ..... AS-2659-174

**Above 4 Relays are identical**  
Same as SPINNER, except  
Switch,  
1st, 2nd ..... ASW-R3-1  
3rd ..... ASW-R1-3  
4th ..... ASW-R1-5  
THUMPER BUMPER  
Same as RIGHT THUMPER BUMPER,  
**6 Bank (Playfield Panel),**  
ROGO, page 72  
Switch Plate (8) ..... P-137-14

**13 Bank (Mounting Board)**  
COIN ..... AS-2662-128  
Same as COIN,  
**14 Bank (Mounting Board),**  
AMIGO, page 70  
2ND COIN CHUTE ..... AS-2659-142  
Same as 2ND COIN CHUTE,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 69  
3RD COIN CHUTE ..... AS-2662-129  
Same as 3RD COIN CHUTE,  
**14 Bank (Mounting Board),**  
ROGO, page 72  
CREDIT ..... AS-2659-141  
Same as CREDIT,  
**14 Bank (Mounting Board),**  
AMIGO, page 70  
LOCK ..... AS-2659-140  
Same as LOCK,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 69  
RESET ..... AS-2662-127  
Same as RESET,  
**14 Bank (Mounting Board),**  
AMIGO, page 70  
DELAY ..... AS-2716  
Same as DELAY,  
**Single Relay (Mounting Board),**  
LITTLE JOE, page 57  
OUTHOLE ..... AS-2662-126  
Same as OUTHOLE,  
**14 Bank (Mounting Board),**  
ROGO, page 72  
BALL INDEX ..... AS-2659-139  
Same as  
LIGHT RIGHT THUMPER BUMPER  
**6 Bank (Mounting Board),**  
ROGO, page 72  
TILT ..... AS-2661-9  
As illustrated, page 49,  
with variable components listed below  
Armature ..... A-7469  
Frame ..... P-7472-1  
Spring Retainer ..... P-7491  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-17  
3rd ..... ASW-R2-1  
4th, 5th ..... ASW-R1-3  
6th ..... ASW-R1-5

## BOOMERANG

**13 Bank (CONTINUED)**  
EXTRA BALL ..... AS-2659-146  
Same as EXTRA BALL,  
**14 Bank (Mounting Board),**  
ROGO, page 73  
BONUS SCORE ..... AS-2659-135  
Same as BONUS SCORE,  
**14 Bank (Mounting Board),**  
AMIGO, page 71  
BONUS ZERO ..... AS-2660-15  
Same as BONUS ZERO,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 70  
Switch Plate (17) ..... P-137-14

## FLICKER

**Single Relay (Mounting Board)**  
GAME OVER ..... AS-2651-24  
**Interlock Relay: see page 90**

**3 Bank (Back Cabinet Insert)**  
**Interlock Relays: see page 90**

**4 Bank (Mounting Board)**  
SPECIAL ..... AS-2659-117  
Same as SPECIAL,  
**7 Bank (Mounting Board),**  
SKY KINGS, page 69  
DOUBLE BONUS ..... AS-2659-179  
Same as DOUBLE BONUS,  
**5 Bank (Mounting Board),**  
BOOMERANG, column 1, this page  
500 POINT ..... AS-2659-150  
Same as CREDIT,  
**14 Bank (Mounting Board)**  
SKY KINGS, page 69  
TOP HOLE ..... AS-2659-178  
Same as TOP HOLE,  
**5 Bank (Mounting Board),**  
BOOMERANG, column 1, this page  
Switch Plate (4) ..... P-137-14

**6 Bank (Back Cabinet Insert)**  
Relays as illustrated, page 49,  
with variable components listed below  
10 POINT ..... AS-2662-122  
Same as 10 POINT,  
**4 Bank (Back Cabinet Insert),**  
BON VOYAGE, page 73

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## FLICKER

**6 Bank (CONTINUED)**  
 100 POINT ..... AS-2662-162  
 Armature ..... P-7469  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-2  
 Grommet (2) ..... R-111-19  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-1  
 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1-4  
 2nd ..... ASW-R1-1  
 1000 POINT ..... AS-2662-120  
 Same as 1000 POINT  
**4 Bank (Back Cabinet Insert),**  
 BON VOYAGE, page 73  
 SCORES RESET ..... AS-2662-119  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
**Stack B**  
 Same as **Stack A**  
 2ND PLAYER (A) ..... AS-2659-176  
 Same as SCORES RESET, except  
 Switch,  
 1st, 2nd, 3rd ..... ASW-R3  
 4th ..... ASW-R1-3  
 2ND PLAYER (B) ..... AS-2659-177  
 Same as 2ND PLAYER (A), except  
 Switch,  
 1st, 2nd, 3rd, 4th ..... ASW-R3  
 Switch Plate (10) ..... P-137-14

**8 Bank (Playfield Panel)**  
 Same as **8 Bank (Playfield Panel)**  
 BOOMERANG, page 74

**13 Bank (Mounting Board) . . .**  
 COIN ..... AS-2662-135  
 2ND COIN CHUTE ..... AS-2659-142  
 3RD COIN CHUTE ..... AS-2659-142  
 CREDIT ..... AS-2659-150  
 LOCK ..... AS-2659-140  
**Above 5 Relays**  
 same as first 5 Relays,  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 RESET ..... AS-2662-163  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
**Stack A**  
 1st ..... ASW-R3-1  
 2nd ..... ASW-R2-1  
 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R2-17  
 3rd ..... ASW-R1-1

## FLICKER

**13 Bank (CONTINUED)**  
 DELAY ..... AS-2716  
 Same as DELAY,  
**Single Relay (Mounting Board),**  
 LITTLE JOE, page 57  
 OUTHOLE ..... AS-2662-72  
 Same as OUTHOLE,  
**14 Bank (Mounting Board),**  
 ROGO, page 72  
 TILT ..... AS-2661-9  
 Same as TILT,  
**13 Bank (Mounting Board),**  
 BOOMERANG, page 74  
 BALL INDEX ..... AS-2659-139  
 Same as  
 LIGHT RIGHT THUMPER BUMPER,  
**6 Bank (Mounting Board)**  
 ROGO, page 72  
 EXTRA BALL ..... AS-2659-146  
 Same as EXTRA BALL,  
**14 Bank (Mounting Board),**  
 ROGO, page 73  
 BONUS SCORE ..... AS-2659-135  
 Same as BONUS SCORE,  
**14 Bank (Mounting Board),**  
 AMIGO, page 71  
 BONUS ZERO ..... AS-2660-15  
 Same as BONUS ZERO,  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 70  
 Switch Plate (16) ..... P-137-14

## AIR ACES

**Single Relay (Mounting Board)**  
 GAME OVER ..... AS-2651  
**Interlock Relay: see page 90**  
**5 Bank (Back Cabinet Insert)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
 10 POINT ..... AS-2662-253  
 Armature ..... P-7469-6  
 Eyelet (2) ..... M-122-19  
 Frame ..... P-7472-10  
 Grommet (2) ..... R-111-29  
 Spring Retainer ..... P-1552  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R1-3  
 2nd ..... ASW-R1-6  
 100 POINT ..... AS-2662-445  
 Same as 10 POINT, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R1-3  
 2nd, 3rd ..... ASW-R1X-1  
 4th ..... ASW-R1-3  
**Stack B** ..... ASW-R1-6  
 1000 POINT ..... AS-2662-251  
 Same as 10 POINT, except  
 Switch,  
**Stack B**  
 1st ..... ASW-R1X-1  
 2nd ..... ASW-R1-6

## AIR ACES

**5 Bank (CONTINUED)**  
 No. 1 SCORE RESET ..... AS-2662-250  
 Armature ..... P-7469-6  
 Frame ..... P-7472-7  
 Spring Retainer ..... P-1552  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1X-1  
**Stack B**  
 Same as **Stack A**  
 NO. 2 SCORE RESET ..... AS-2662-250  
 Same as NO. 1 SCORE RESET  
 Switch Plate (8) ..... P-137-14  
**6 Bank (Mounting Board)**  
 SPECIAL ..... AS-2659-148  
 Same as MULTIPLE EXTRA BALLS  
**14 Bank (Mounting Board),**  
 SKY KINGS, page 70  
 500 ..... AS-2660-19  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st, 2nd ..... ASW-R2-1  
 3rd ..... ASW-R1-4  
 4th ..... ASW-R1-3  
 5th ..... ASW-R1-1  
 ADVANCE BONUS ..... AS-2659-134  
 Same as RIGHT THUMPER BUMPER,  
**6 Bank (Playfield Panel),**  
 ROGO, page 72  
 TARGETS DOWN ..... AS-2662-153  
 Same as OUTHOLE,  
**14 Bank (Mounting Board),**  
 AMIGO, page 70  
 DOUBLE BONUS ..... AS-2659-139  
 Same as  
 LIGHT RIGHT THUMPER BUMPER,  
**6 Bank (Mounting Board),**  
 ROGO, page 72  
 SPECIAL LIGHT ..... AS-2659-151  
 Same as DOUBLE BONUS  
**7 Bank (Mounting Board),**  
 SKY KINGS, page 69  
 Switch Plate (7) ..... P-137-14  
**7 Bank (Playfield Panel)**  
 Relays as illustrated, page 49,  
 with variable components listed below  
 LIGHT TOP LEFT HOLE .. AS-2659-203  
 LIGHT TOP RIGHT HOLE .. AS-2659-203  
**Above 2 Relays are identical**  
 Armature ..... P-7469  
 Frame ..... P-7472-1  
 Spring Retainer ..... P-7491  
 Switch,  
 1st ..... ASW-R1-3  
 2nd ..... ASW-R1-5  
 LEFT TOP HOLE ..... AS-2660-12  
 Same as BONUS SCORE  
**14 Bank (Mounting Board)**  
 SKY KINGS, page 70  
 RIGHT TOP HOLE  
 Same as LEFT TOP HOLE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## AIR ACES

**7 Bank (CONTINUED)**  
LEFT THUMPER BUMPER . . . AS-2659-202  
RIGHT THUMPER BUMPER . . . AS-2659-202  
**Above 2 Relays are identical**  
Same as LIGHT TOP LEFT HOLE,  
except  
Switch,  
1st . . . . . ASW-R1-4  
2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-1  
ALTERNATOR . . . . . AS-2659-177  
Same as 2ND PLAYER (A),  
**6 Bank (Back Cabinet Insert),**  
FLICKER, page 75  
Switch Plate (7) . . . . . P-137-14

**14 Bank (Mounting Board)**  
COIN . . . . . AS-2662-128  
Same as COIN,  
**14 Bank (Mounting Board),**  
AMIGO, page 70  
2ND COIN CHUTE . . . . . AS-2659-142  
Same as 2ND COIN CHUTE,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 69  
3RD COIN CHUTE . . . . . AS-2662-129  
Same as 3RD COIN CHUTE,  
**14 Bank (Mounting Board),**  
ROGO, page 72  
CREDIT . . . . . AS-2659-141  
Same as CREDIT,  
**14 Bank (Mounting Board),**  
AMIGO, page 70  
LOCK . . . . . AS-2659-140  
Same as LOCK,  
**14 Bank (Mounting Board)**  
SKY KINGS, page 69  
RESET . . . . . AS-2662-191  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-1  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R2-17  
2nd . . . . . ASW-R2-1  
3rd . . . . . ASW-R1-1

OUTHOLE . . . . . AS-2662-136  
Same as OUTHOLE,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 70  
BALL INDEX . . . . . AS-2659-153  
Same as BALL INDEX,  
**7 Bank (Mounting Board),**  
SKY KINGS, page 69  
TILT . . . . . AS-2661-4  
Same as TILT,  
**14 Bank (Mounting Board),**  
ROGO, page 73

## AIR ACES

**14 Bank (CONTINUED)**  
EXTRA BALL . . . . . AS-2660-21  
Same as RESET, except  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R2-1  
4th . . . . . ASW-R1-3  
5th . . . . . ASW-R1-5  
BONUS SCORE . . . . . AS-2659-135  
Same as BONUS SCORE,  
**14 Bank (Mounting Board),**  
AMIGO, page 71  
BONUS ZERO . . . . . AS-2660-15  
Same as BONUS ZERO,  
**14 Bank (Mounting Board),**  
SKY KINGS, page 70  
PLAYER RESET . . . . . AS-2659-136  
Same as PLAYER RESET,  
**14 Bank (Mounting Board),**  
AMIGO, page 71  
Switch Plate (18) . . . . . P-137-14

## KNOCKOUT

**Single Relays**  
(Mounting Board)  
GAME OVER . . . . . AS-2651-31  
**Interlock Relay: see page 90**  
SPECIAL . . . . . AS-2659-211  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-1  
Switch Plate . . . . . P-137-14  
(Playfield Panel)  
ALTERNATOR . . . . . AS-2659-212  
Same as SPECIAL, above, except  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1  
3rd . . . . . ASW-R1-3

**3 Bank (Back Cabinet Insert)**  
**Interlock Relays: see page 90**

**6 Bank (Back Cabinet Insert)**  
10 POINT . . . . . AS-2662-199  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-2  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd . . . . . ASW-R1X-1  
4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R1X-1  
2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1

## KNOCKOUT

**6 Bank (Back Cabinet Insert)**  
(CONTINUED FROM COLUMN 2)  
100 POINT . . . . . AS-2662-168  
1000 POINT . . . . . AS-2662-128  
**Above 2 Relays**  
same as Relays with same names,  
**4 Bank (Back Cabinet Insert)**  
**BON VOYAGE, page 73**  
SCORES RESET . . . . . AS-2662-119  
2ND PLAYER (A) . . . . . AS-2659-126  
2ND PLAYER (B) . . . . . AS-2659-177  
**Above 3 Relays**  
same as Relays with same names,  
**6 Bank (Back Cabinet Insert)**  
FLICKER, page 75  
Switch Plate (10) . . . . . P-137-14

**6 Bank (Mounting Board)**  
Relays as illustrated, page 49,  
with variable components listed below  
DOUBLE BONUS . . . . . AS-2659-151  
Same as DOUBLE BONUS,  
**7 Bank (Mounting Board)**  
SKY KINGS, page 69  
500 POINT . . . . . AS-2662-200  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st . . . . . ASW-R2-1  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-1  
TOP ROLLOVER BUTTON . AS-2659-134  
Same as RIGHT THUMPER BUMPER,  
**6 Bank (Playfield Panel),**  
ROGO, page 72  
LEFT TARGET . . . . . AS-2659-213  
Same as 500 POINT, except  
Switch,  
1st, 2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-1  
RIGHT TARGET . . . . . AS-2659-213  
Same as LEFT TARGET  
HOLE . . . . . AS-2662-201  
Same as 500, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th . . . . . ASW-R1-3  
Switch Plate (8) . . . . . P-137-14

<p>CONTINUED  ON  NEXT PAGE</p>
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WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE RELAYS

## KNOCKOUT

**8 Bank** (Playfield Panel)  
BONUS ADVANCE . . . . . AS-2659-117  
Same as SPECIAL,  
**7 Bank** (Mounting Board),  
SKY KINGS, page 69  
RIGHT THUMPER BUMPER . AS-2659-134  
LEFT THUMPER BUMPER . . AS-2659-134  
**Above 2 Relays are identical**  
Same as RIGHT THUMPER BUMPER,  
**6 Bank** (Playfield Panel),  
ROGO, page 72  
TOP CENTER LANE . . . . . AS-2662-197  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-3  
LEFT LANE . . . . . AS-2659-134  
RIGHT LANE . . . . . AS-2659-134  
**Above 2 Relays are identical**  
Same as RIGHT THUMPER BUMPER,  
**6 Bank** (Playfield Panel),  
ROGO, page 72  
LIGHT LEFT LANE . . . . . AS-2662-198  
Same as TOP CENTER LANE, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd . . . . . ASW-R3-1  
4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-5  
LIGHT RIGHT LANE  
Same as LIGHT LEFT LANE  
Switch Plate (11) . . . . . P-137-14

**14 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below  
2ND COIN SET UP . . . . . AS-2659-231  
Armature . . . . . P-7469  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-2  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . R-7491  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R1-5  
COIN . . . . . AS-2662-135  
Same as COIN,  
**14 Bank** (Mounting Board)  
SKY KINGS, page 69  
2ND COIN CHUTE . . . . . AS-2659-131  
Same as 2ND COIN SET UP, except  
Switch,  
1st . . . . . ASW-R2-1  
2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1

## KNOCKOUT

**14 Bank** (CONTINUED)  
3RD COIN CHUTE . . . . . AS-2659-232  
Same as 2ND COIN SET UP, except  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1  
CREDIT . . . . . AS-2659-150  
LOCK . . . . . AS-2659-140  
**Above 2 Relays**  
Same as 2 Relays with same names,  
**14 Bank** (Mounting Board),  
SKY KINGS, page 69  
RESET . . . . . AS-2662-127  
Same as RESET,  
**14 Bank** (Mounting Board),  
AMIGO, page 70  
DELAY . . . . . AS-2716  
Same as DELAY,  
**Single Relay** (Mounting Board),  
LITTLE JOE, page 57  
OUTHOLE . . . . . AS-2662-204  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-1  
BALL INDEX . . . . . AS-2659-228  
Same as OUTHOLE, except  
Switch,  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-1  
3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-5  
TILT . . . . . AS-2662-203  
Same as OUTHOLE, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-1  
2nd . . . . . ASW-R2-17  
3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-5  
EXTRA BALL . . . . . AS-2659-148  
Same as EXTRA BALL,  
**14 Bank** (Mounting Board),  
ROGO, page 73  
BONUS SCORE . . . . . AS-2659-135  
Same as BONUS SCORE,  
**14 Bank** (Mounting Board),  
AMIGO, page 71  
BONUS ZERO . . . . . AS-2662-202  
Same as OUTHOLE, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-1  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R2-1  
2nd . . . . . ASW-R1-3  
Switch Plate (19) . . . . . P-137-14

## WIZARD

**Single Relays**  
(Mounting Board)  
GAME OVER . . . . . AS-2651-50  
**Interlock Relay: see page 90**  
(Playfield Panel)  
RIGHT AND LEFT  
THUMPER BUMPERS . . . . AS-2659-134  
Same as RIGHT THUMPER BUMPER,  
6 Bank (Playfield Panel),  
ROGO, page 72

**4 Bank** (Back Cabinet Insert)  
**Interlock Relays: see page 90**

**5 Bank** (Back Cabinet Insert)  
Same as 5 Bank (Back Cabinet Insert)  
AIR ACES, page 75

**6 Bank** (Playfield Panel)  
**WITH INTERLOCK RELAYS**  
BONUS ADVANCE . . . . . AS-2659-117  
Same as SPECIAL,  
**7 Bank** (Mounting Board),  
SKY KINGS, page 69  
FLIP RESET . . . . . AS-2662-197  
Same as TOP CENTER LANE,  
**8 Bank** (Playfield Panel),  
KNOCKOUT, column 1, this page  
NO. 1 FLIP . . . . . AS-2651-45  
NO. 2 FLIP . . . . . AS-2651-45  
NO. 3 FLIP . . . . . AS-2651-45  
NO. 4 FLIP . . . . . AS-2651-45  
**Above 4 Relays are Interlock Relays**  
see page 90  
Switch Plate (7) . . . . . P-137-14

**6 Bank** (Playfield Panel)  
**WITHOUT INTERLOCK RELAYS**  
NO. 1 . . . . . AS-2659-219  
NO. 2 . . . . . AS-2659-219  
NO. 3 . . . . . AS-2659-219  
NO. 4 . . . . . AS-2659-219  
**Above 4 Relays are identical**  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469  
Frame . . . . . P-7472-1  
Spring Retainer . . . . . P-7491  
Switch,  
1st, 2nd . . . . . ASW-R1-4  
3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-1  
TOP THUMPER BUMPER . . AS-2659-134  
Same as RIGHT THUMPER BUMPER,  
**6 Bank** (Playfield Panel),  
ROGO, page 72  
LIGHT SPINNER . . . . . AS-2659-139  
Same as  
LIGHT RIGHT THUMPER BUMPER,  
**6 Bank** (Mounting Board),  
ROGO, page 72  
Switch Plate (6) . . . . . P-137-14

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## WIZARD

**7 Bank** (Mounting Board)  
 LIGHT THUMPER BUMPER . AS-2659-139  
 Same as LIGHT RIGHT THUMPER BUMPER,  
**6 Bank** (Mounting Board),  
 ROGO, page 72  
 DOUBLE BONUS . . . . . AS-2659-126  
 Same as GREEN SPECIAL LIGHT,  
**Single Relay** (Mounting Board),  
 TWIN WIN, page 67  
 500 . . . . . AS-2659-135  
 5000 . . . . . AS-2659-135  
 CENTER TARGET . . . . . AS-2659-135  
**Above 3 Relays are identical**  
 Same as BONUS SCORE,  
**14 Bank** (Mounting Board),  
 AMIGO, page 71  
 LIGHT CENTER TARGET . AS-2659-139  
 Same as LIGHT RIGHT THUMPER BUMPER,  
**6 Bank** (Mounting Board),  
 ROGO, page 72  
 RIGHT LANE . . . . . AS-2662-217  
 As illustrated, page 49,  
 with variable components listed below  
 Armature . . . . . P-7469  
 Frame . . . . . P-7472-1  
 Spring Retainer . . . . . P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
 1st, 2nd, 3rd . . . . . ASW-R1-3  
 4th . . . . . ASW-R1-1  
 Switch Plate (8) . . . . . P-137-14

**15 Bank** (Mounting Board)  
 2ND COIN SET UP . . . . . AS-2659-231  
 Same as 2ND COIN SET UP,  
**14 Bank** (Mounting Board),  
 KNOCKOUT, page 77  
 COIN . . . . . AS-2662-218  
 As illustrated, page 49,  
 with variable components listed below  
 Armature . . . . . P-7469  
 Eyelet (2) . . . . . M-122-19  
 Frame . . . . . P-7472-2  
 Grommet (2) . . . . . R-111-29  
 Spring Retainer . . . . . P-7491  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
 1st, 2nd, 3rd . . . . . ASW-R1-3  
 4th . . . . . ASW-R1-1

2ND COIN CHUTE . . . . . AS-2659-131  
 Same as 2ND COIN,  
**14 Bank** (Mounting Board),  
 KNOCKOUT, page 77  
 3RD COIN CHUTE . . . . . AS-2662-135  
 Same as COIN,  
**14 Bank** (Mounting Board),  
 SKY KINGS, page 69  
 CREDIT . . . . . AS-2659-141  
 Same as CREDIT,  
**14 Bank** (Mounting Board),  
 AMIGO, page 70  
 LOCK . . . . . AS-2659-140  
 Same as LOCK,  
**14 Bank** (Mounting Board),  
 SKY KINGS, page 69

## WIZARD

**15 Bank** (CONTINUED)  
 RESET . . . . . AS-2662-127  
 Same as RESET,  
**14 Bank** (Mounting Board),  
 AMIGO, page 70  
 DELAY . . . . . AS-2716  
 Same as DELAY,  
**Single Relay** (Mounting Board),  
 LITTLE JOE, page 57  
 OUTHOLE . . . . . AS-2662-219  
 Same as COIN, column 1, except  
 Armature . . . . . P-7469  
 Frame . . . . . P-7472-1  
 Spring Retainer . . . . . P-7491  
 Switch,  
**Stack A**  
 1st, 2nd . . . . . ASW-R2-1  
 3rd, 4th . . . . . ASW-R1-3  
**BALL INDEX** . . . . . AS-2659-229  
 Same as BALL INDEX,  
**14 Bank** (Mounting Board),  
 KNOCKOUT, page 77  
 TILT . . . . . AS-2662-220  
 Same as OUTHOLE, above, except  
 Switch,  
**Stack A**  
 1st . . . . . ASW-R2-17  
 2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-5  
**EXTRA BALL** . . . . . AS-2659-207  
 Same as OUTHOLE, above, except  
 Switch,  
 1st . . . . . ASW-R2-1  
 2nd . . . . . ASW-R1-3  
 3rd . . . . . ASW-R1-5  
**BONUS SCORE** . . . . . AS-2659-135  
 Same as BONUS SCORE,  
**14 Bank** (Mounting Board),  
 AMIGO, page 71  
 BONUS ZERO . . . . . AS-2662-202  
 Same as BONUS ZERO,  
**14 Bank** (Mounting Board),  
 KNOCKOUT, page 77  
 PLAYER RESET . . . . . AS-2659-136  
 Same as PLAYER RESET,  
**14 Bank** (Mounting Board)  
 AMIGO, page 71  
 HOLE . . . . . AS-2662-201  
 Same as HOLE,  
**6 Bank** (Mounting Board),  
 KNOCKOUT, page 76  
 Switch Plate (23) . . . . . P-137-14

## HI-DEAL

**Single Relays** (Mounting Board)  
 GAME . . . . . AS-2651-53  
 GAME OVER . . . . . AS-2651-54  
**Above 2 Relays are Interlock Relays:**  
 see page 90

## HI-DEAL

**4 Bank** (Mounting Board)  
 Relays as illustrated, page 49  
 with variable components listed below  
**SPECIAL** . . . . . AS-2659-291  
 Armature . . . . . P-7469-6  
 Frame . . . . . P-7472-9  
 Spring Retainer . . . . . P-1552  
 Switch,  
 1st, 2nd . . . . . ASW-R1-3  
 3rd . . . . . ASW-R1-5  
**DOUBLE BONUS** . . . . . AS-2659-292  
 Same as SPECIAL, except  
 Switch,  
 1st, 2nd . . . . . ASW-R3-6  
 3rd . . . . . ASW-R1-3  
 4th . . . . . ASW-R1-5  
**500 AND ADVANCE BONUS** . AS-2659-293  
 Same as SPECIAL, except  
 Switch,  
 1st . . . . . ASW-R3-6  
 2nd, 3rd . . . . . ASW-R1-3  
 4th . . . . . ASW-R1-6  
**SERIES** . . . . . AS-2662-295  
 Same as SPECIAL, except  
 Switch,  
**Stack A**  
 1st . . . . . ASW-R3-6  
 2nd . . . . . ASW-R2-5  
 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-3  
 Switch Plate (5) . . . . . P-137-14

**5 Bank** (Back Cabinet Insert)  
 Relays as illustrated, page 49,  
 with variable components listed below  
 10 POINT . . . . . AS-2662-253  
 Same as 10 POINT,  
**5 Bank** (Back Cabinet Insert),  
 AIR ACES, page 75  
 100 POINT . . . . . AS-2662-252  
 Armature . . . . . P-7469-6  
 Eyelet (2) . . . . . M-122-19  
 Frame . . . . . P-7472-10  
 Grommet (2) . . . . . R-111-29  
 Spring Retainer . . . . . P-1552  
 Switch,  
**Stack A**  
 1st, 2nd . . . . . ASW-R1X-1  
 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-6  
 1000 POINT . . . . . AS-2662-251  
 Same as 1000 POINT,  
**5 Bank** (Back Cabinet Insert),  
 AIR ACES, page 75  
 SCORE RESET . . . . . AS-2659-300  
 Armature . . . . . P-7469-6  
 Frame . . . . . P-7472-9  
 Spring Retainer . . . . . P-1552  
 Switch,  
 1st, 2nd, 3rd, 4th . . . . . ASW-R1X-1

<p style="text-align: center;">CONTINUED                  ON                  NEXT PAGE</p>
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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## HI-DEAL

**5 Bank** (Back Cabinet Insert)  
(CONTINUED FROM PAGE 78)  
100,000 POINT . . . . . AS-2659-290  
Same as SCORE RESET, except  
Switch,  
1st . . . . . ASW-R3-6  
2nd . . . . . ASW-R2-5  
3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-5  
Switch Plate (as required) . . . . P-137-14

**5 Bank** (Playfield Panel)  
Relays as illustrated, page 49,  
with variable components, listed below  
ACE . . . . . AS-2662-293  
KING . . . . . AS-2662-293  
QUEEN . . . . . AS-2662-293  
JACK . . . . . AS-2662-293  
TEN . . . . . AS-2662-293

**Above 5 Relays are identical**  
Armature . . . . . P-7469-6  
Frame . . . . . P-7472-9  
Spring Retainer . . . . . P-1552  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-6  
2nd . . . . . ASW-R2-5  
3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-5  
Switch Plate (as required) . . . . P-137-14

**13 Bank** (Mounting Board)  
Relays as illustrated, page 49,  
with variable components listed below  
2ND COIN SET UP . . . . . AS-2659-251  
Armature . . . . . P-7469-6  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-10  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . P-1552  
Switch,  
1st . . . . . ASW-R3-6  
2nd . . . . . ASW-R1-5  
COIN . . . . . AS-2662-258  
Same as 2ND COIN SET UP, except  
Switch,  
**Stack A**  
1st, 2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-6  
2ND COIN CHUTE . . . . . AS-2659-253  
Same as 2ND COIN SET UP, except  
Switch,  
1st . . . . . ASW-R2-5  
2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-6  
3RD COIN CHUTE . . . . . AS-2659-261  
Same as 2ND COIN SET UP, except  
Switch,  
1st, 2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-6  
CREDIT . . . . . AS-2659-285  
Armature . . . . . P-7469-6  
Frame . . . . . P-7472-9  
Spring Retainer . . . . . P-1552  
Switch,  
1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-6

## HI-DEAL

**13 Bank** (CONTINUED)  
LOCK . . . . . AS-2659-258  
Same as CREDIT, except  
Switch,  
1st . . . . . ASW-R2-5  
2nd, 3rd . . . . . ASW-R1-37  
RESET . . . . . AS-2662-286  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st, 2nd . . . . . ASW-R2-5  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R2-17  
2nd . . . . . ASW-R2-5  
3rd . . . . . ASW-R1-6  
DELAY . . . . . AS-2716-2  
Lamp . . . . . E-125-44  
Lamp Socket . . . . . E-120-43  
Relay . . . . . AS-2659-259  
Same as CREDIT, except  
Switch,  
1st . . . . . ASW-R2-17  
2nd . . . . . ASW-R1-6  
OUTHOLE . . . . . AS-2662-296  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st, 2nd . . . . . ASW-R2-5  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st, 2nd . . . . . ASW-R1-3  
3rd . . . . . ASW-R1-6  
BALL INDEX . . . . . AS-2662-300  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R2-5  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-5  
TILT . . . . . AS-2662-301  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R2-17  
2nd . . . . . ASW-R2-5  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-5  
CENTER HOLE . . . . . AS-2662-302  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R3-6  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R2-5  
2nd, 3rd . . . . . ASW-R1-3  
4th . . . . . ASW-R1-6  
BONUS SCORE . . . . . AS-2662-285  
Same as CREDIT, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R2-5  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B** . . . . . ASW-R1-6  
Switch Plate (as required) . . . . P-137-14

## BOW AND ARROW

**Single Relay** (Mounting Board)  
GAME OVER . . . . . AS-2651-55  
**Interlock Relay: see page 90**  
**4 Bank** (Back Cabinet Insert)  
**Interlock Relays: see page 90**  
**5 Bank** (Back Cabinet Insert)  
10 POINT . . . . . AS-2662-292  
As illustrated, page 49,  
with variable components, listed below  
Armature . . . . . P-7469-6  
Eyelet (2) . . . . . M-122-19  
Frame . . . . . P-7472-10  
Grommet (2) . . . . . R-111-29  
Spring Retainer . . . . . P-1552  
Switch,  
**Stack A**  
1st, 2nd . . . . . ASW-R1X-1  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R2-5  
2nd . . . . . ASW-R1-6  
100 POINT . . . . . AS-2662-253  
Same as 10 POINT,  
**5 Bank** (Back Cabinet Insert),  
AIR ACES, page 75  
1000 POINT . . . . . AS-2662-251  
Same as NO. 1 SCORE RESET,  
**5 Bank** (Back Cabinet Insert),  
AIR ACES, page 75  
NO. 1 SCORE RESET . . . . . AS-2662-250  
Same as NO. 1 SCORE RESET,  
**5 Bank** (Back Cabinet Insert),  
AIR ACES, page 75  
NO. 2 SCORE RESET . . . . . AS-2662-250  
Same as NO. 1 SCORE RESET  
Switch Plate (as required) . . . . P-137-14  
  
**5 Bank** (Mounting Board)  
500 POINT . . . . . AS-2659-285  
Same as CREDIT,  
**13 Bank** (Mounting Board),  
HI-DEAL, column 1, this page  
BONUS HOLE SCORE . . . . . AS-2662-285  
Same as BONUS SCORE,  
**13 Bank** (Mounting Board),  
HI-DEAL, column 2, this page  
5000 BONUS HOLE . . . . . AS-2662-289  
As illustrated, page 49,  
with variable components listed below  
Armature . . . . . P-7469-6  
Frame . . . . . P-7472-9  
Spring Retainer . . . . . P-1552  
Switch,  
**Stack A**  
1st, 2nd . . . . . ASW-R2-5  
3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-6  
PLAYER RESET . . . . . AS-2659-286  
Same as 5000 BONUS HOLE, except  
Switch,  
1st . . . . . ASW-R3-6  
2nd . . . . . ASW-R1-6  
TOP HOLE  
AND CENTER TARGET . . . . . AS-2662-259  
Same as 5000 BONUS HOLE, except  
Switch,  
**Stack A**  
1st . . . . . ASW-R2-5  
2nd, 3rd, 4th . . . . . ASW-R1-3  
**Stack B**  
1st . . . . . ASW-R1-3  
2nd . . . . . ASW-R1-6  
Switch Plate (as required) . . . . P-137-14

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## BOW AND ARROW

### 5 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

DOUBLE BONUS	AS-2659-287
Armature	P-7469-6
Frame	P-7472-9
Spring Retainer	P-1552
Switch,	
1st, 2nd	ASW-R3-6
3rd	ASW-R1-3
A.	AS-2662-288
B.	AS-2662-288
C.	AS-2662-288
D.	AS-2662-288

### Above 4 Relays are identical

Same as DOUBLE BONUS, except

Switch,

#### Stack A

1st, 2nd, 3rd	ASW-R3-6
4th	ASW-R1-3

#### Stack B

ASW-R1-5
----------

Switch Plate (as required) . . . P-137-14

### 14 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

2ND COIN SET UP	AS-2659-251
Same as 2ND COIN SET UP,	

### 13 Bank (Mounting Board),

HI-DEAL, page 79

COIN	AS-2662-257
Armature	P-7469-6
Eyelet (2)	M-122-19
Frame	P-7472-10
Grommet (2)	R-111-29
Spring Retainer	P-1552
Switch,	

#### Stack A

1st, 2nd, 3rd, 4th	ASW-R1-3
--------------------	----------

#### Stack B

1st	ASW-R1-3
2nd	ASW-R1-6

2ND COIN CHUTE . . . AS-2659-253

Same as 2ND COIN CHUTE,

### 13 Bank (Mounting Board),

HI-DEAL, page 79

3RD COIN CHUTE	AS-2662-257
Same as COIN, above	

CREDIT . . . AS-2659-256

Armature	P-7469-6
Frame	P-7472-9
Spring Retainer	P-1552

Switch,

1st	ASW-R2-5
2nd, 3rd	ASW-R1-3
4th	ASW-R1-6

LOCK . . . AS-2659-258

Same as LOCK,

### 13 Bank (Mounting Board),

HI-DEAL, page 79

RESET	AS-2662-283
Same as CREDIT, except	

Switch,

#### Stack A

1st	ASW-R3-6
2nd, 3rd, 4th	ASW-R1-3

#### Stack B

1st, 2nd	ASW-R2-17
3rd	ASW-R2-5
4th	ASW-R1-6

## BOW AND ARROW

### 14 Bank (CONTINUED)

DELAY . . . AS-2716-2

Same as DELAY,

### 13 Bank (Mounting Board),

HI-DEAL, page 79

OUTHOLE . . . AS-2662-290

Same as CREDIT, except

Switch,

#### Stack A

1st, 2nd	ASW-R2-5
3rd, 4th	ASW-R1-3

#### Stack B

1st	ASW-R2-5
2nd, 3rd	ASW-R1-3
4th	ASW-R1-6

BALL INDEX . . . AS-2659-257

Same as CREDIT, except

Switch,

#### Stack A

1st	ASW-R2-5
2nd, 3rd	ASW-R1-3

#### Stack B

1st	ASW-R1-5
2nd, 3rd	ASW-R1-3

TILT . . . AS-2662-291

Same as CREDIT, except

Switch,

#### Stack A

1st	ASW-R2-17
2nd	ASW-R2-5
3rd, 4th	ASW-R1-3

#### Stack B

1st	ASW-R2-5
2nd	ASW-R1-5

EXTRA BALL . . . AS-2659-255

Same as CREDIT, except

Switch,

#### Stack A

1st	ASW-R2-5
2nd	ASW-R1-3
3rd	ASW-R1-5

OUT BONUS SCORE . . . AS-2662-285

Same as BONUS SCORE,

### 13 Bank (Mounting Board),

HI-DEAL, page 79

3000 . . . AS-2662-254

Same as CREDIT, except

Switch,

#### Stack A

1st, 2nd	ASW-R2-5
3rd, 4th	ASW-R1-3

#### Stack B

1st	ASW-R1-6
-----	----------

Switch Plate (as required) . . . P-137-14

## FLIP-FLOP

### Single Relay (Mounting Board)

GAME OVER . . . AS-2651-63

Interlock Relay: see page 91

### 4 Bank (Back Cabinet Insert)

Interlock Relays: see page 91

### 5 Bank (Back Cabinet Insert)

Same as 5 Bank (Back Cabinet Insert),

AIR ACES, page 75

## FLIP-FLOP

### 6 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

LEFT AND RIGHT HOLES	AS-2659-260
FLIP RESET	AS-2659-260

### Above 2 Relays are identical

Armature	P-7469-6
Frame	P-7472-9
Spring Retainer	P-1552

Switch,

1st, 2nd, 3rd	ASW-R1-3
4th	ASW-R1-6

PLAYER RESET . . . AS-2659-286

Same as PLAYER RESET

### 5 Bank (Mounting Board),

BOW AND ARROW, page 79

500 POINT . . . AS-2659-256

Same as CREDIT,

### 14 Bank (Mounting Board),

BOW AND ARROW,  
column 1, this page

MUSHROOM BUMPER . . . AS-2662-433

Same as LEFT AND RIGHT HOLES,

except

Switch,

#### Stack A

1st, 2nd, 3rd, 4th	ASW-R1-3
--------------------	----------

#### Stack B

ASW-R1-6
----------

CAM . . . AS-2662-503

Same as LEFT AND RIGHT HOLES,

except

Switch,

#### Stack A

1st, 2nd, 3rd, 4th	ASW-R3-6
--------------------	----------

#### Stack B

ASW-R3-6
----------

Switch Plate (as required) . . . P-137-14

### 8 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

NO. 1 TARGET	AS-2659-438
NO. 2 TARGET	AS-2659-438
NO. 3 TARGET	AS-2659-438
NO. 4 TARGET	AS-2659-438

### Above 4 Relays are identical

Armature	P-7469-6
Frame	P-7472-9
Spring Retainer	P-1552

Switch,

1st	ASW-R1-3
2nd, 3rd	ASW-R1X-1
4th	ASW-R1-6

NO. 1 FLIP . . . AS-2662-277

NO. 2 FLIP . . . AS-2662-277

NO. 3 FLIP . . . AS-2662-277

NO. 4 FLIP . . . AS-2662-277

### Above 4 Relays are identical

Same as NO. 1 TARGET, except

Switch,

#### Stack A

1st, 2nd, 3rd	ASW-R3-6
4th	ASW-R1-3

#### Stack B

ASW-R1-3
----------

Switch Plate (as required) . . . P-137-14

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## FLIP-FLOP

**14 Bank** (Mounting Board)  
 COIN ..... AS-2662-257  
 Same as COIN,  
**14 Bank** (Mounting Board),  
 BOW AND ARROW, page 80  
 2ND COIN CHUTE ..... AS-2659-253  
 Same as 2ND COIN CHUTE,  
**13 Bank** (Mounting Board),  
 HI-DEAL, page 79  
 CREDIT ..... AS-2659-256  
 Same as CREDIT,  
**14 Bank** (Mounting Board)  
 BOW AND ARROW, page 80  
 LOCK ..... AS-2659-258  
 Same as LOCK,  
**13 Bank** (Mounting Board),  
 HI-DEAL, page 79  
 RESET ..... AS-2662-283  
 Same as RESET,  
**14 Bank** (Mounting Board),  
 BOW AND ARROW, page 80  
 DELAY ..... AS-2716-2  
 Same as DELAY,  
**13 Bank** (Mounting Board),  
 HI-DEAL, page 79  
 OUTHOLE ..... AS-2662-255  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469-6  
 Frame ..... P-7472-9  
 Spring Retainer ..... P-1552  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-5  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-6  
**BALL INDEX** ..... AS-2659-452  
 Same as OUTHOLE, except  
 Switch,  
 1st ..... ASW-R3-6  
 2nd ..... ASW-R2-5  
 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-5  
**TILT** ..... AS-2662-492  
 Same as OUTHOLE, except  
 Switch,  
**Stack A**  
 1st ..... ASW-R2-17  
 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R2-5  
 2nd ..... ASW-R1-5  
**EXTRA BALL** ..... AS-2659-255  
 Same as EXTRA BALL,  
**14 Bank** (Mounting Board),  
 BOW AND ARROW, page 80  
**BONUS SCORE** ..... AS-2659-260  
 Same as LEFT AND RIGHT HOLES,  
**6 Bank** (Mounting Board),  
 FLIP FLOP, page 80  
**BONUS ZERO** ..... AS-2662-295  
 Same as SERIES,  
**4 Bank** (Mounting Board),  
 HI-DEAL, page 78  
**5000** ..... AS-2659-256  
 Same as CREDIT,  
**14 Bank** (Mounting Board),  
 BOW AND ARROW, page 80

## FLIP-FLOP

**14 Bank** (CONTINUED)  
 SPECIAL ..... AS-2659-285  
 Same as CREDIT,  
**13 Bank** (Mounting Board),  
 HI-DEAL, page 79  
 Switch Plate (as required) . . . P-137-14

## HOKUS POKUS

### HOKUS POKUS

**Single Relays**  
 (Back Cabinet Insert)  
 2ND COIN ..... AS-2651-56  
**Interlock Relay: see page 97**  
 (Mounting Board)  
**GAME OVER** ..... AS-2651-55  
**Interlock Relay: see page 97**  
 (Playfield Panel)  
**FREE GATE, RELAY ASSY.** AS-2308-18  
 Base Plate-Bearing Assy. . . . A-3789  
 Hub-Roll Pin Assy. . . . . A-3788  
 Relay ..... AS-2656-6  
 As illustrated, page 49,  
 with variable components listed below  
 Armature Assy. . . . . A-3509-2  
 Frame ..... P-7472-9  
 Spring Retainer ..... P-1552  
 Switch,  
 1st ..... ASW-R3-6  
 2nd ..... ASW-R1-6  
 Switch Plate ..... P-137-14  
 Retaining Ring ..... P-6316-6  
 Set Screw ..... M-1369  
 Shaft ..... S-737-58

**4 Bank** (Playfield Panel)  
 A ..... AS-2659-288  
 B ..... AS-2659-288  
 C ..... AS-2659-288  
 D ..... AS-2659-288

**Above 4 Relays are identical**  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469-6  
 Frame ..... P-7472-9  
 Spring Retainer ..... P-1552  
 Switch,  
 1st ..... ASW-R3-6  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
 Switch Plate (4) ..... P-137-14

**5 Bank** (Back Cabinet Insert)  
 10 POINT ..... AS-2662-253  
 Same as 10 POINT,  
**5 Bank** (Back Cabinet Insert)  
 AIR ACES, page 75  
 100 POINT ..... AS-2662-252  
 Same as 100 POINT,  
**5 Bank** (Back Cabinet Insert),  
 HI-DEAL, page 79  
 1000 POINT ..... AS-2662-251  
 Same as 1000 POINT,  
**5 Bank** (Back Cabinet Insert),  
 AIR ACES, page 75  
**SCORES RESET** ..... AS-2662-250  
 Same as NO. 1 SCORE RESET,  
**5 Bank** (Back Cabinet Insert),  
 AIR ACES, page 75

## HOKUS POKUS

**5 Bank** (Back Cabinet Insert)  
 (CONTINUED FROM COLUMN 2)  
 2ND PLAYER ..... AS-2662-311  
 As illustrated, page 49,  
 with variable components listed below  
 Armature ..... P-7469-6  
 Frame ..... P-7472-9  
 Spring Retainer ..... P-1552  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R3-6  
**Stack B**  
 1st, 2nd ..... ASW-R3-6  
 Switch Plate (as required) . . . P-137-14

**5 Bank** (Mounting Board)  
 Relays as illustrated, page 49,  
 with variable components listed below  
 500 AND BONUS ADVANCE . AS-2659-293  
 Same as 500 AND ADVANCE BONUS,  
**4 Bank** (Mounting Board),  
 HI-DEAL, page 78  
**ABCD SERIES** ..... AS-2662-313  
 Armature ..... P-7469-6  
 Frame ..... P-7472-9  
 Spring Retainer ..... P-1552  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R2-5  
 2nd ..... ASW-R1-6  
**DOUBLE BONUS** ..... AS-2662-314  
 Same as ABCD SERIES, except  
 Switch,

**Stack A**  
 1st, 2nd ..... ASW-R3-6  
 3rd, 4th ..... ASW-R1-3  
**Stack B**  
 1st ..... ASW-R3-6  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-5  
**OVER THE TOP DELAY** . . . AS-2716-1  
 Lamp ..... E-125-44  
 Lamp Socket ..... E-120-48  
 Relay ..... AS-2659-299  
 Same as ABCD SERIES, except  
 Switch,  
 1st, 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-6  
**ALTERNATOR** ..... AS-2662-315  
 Same as ABCD SERIES, except  
 Switch,  
**Stack A**  
 1st, 2nd, 3rd, 4th ..... ASW-R3-6  
**Stack B**  
 1st ..... ASW-R3-6  
 2nd ..... ASW-R1-3  
 Switch Plate (as required) . . . P-137-14

**11 Bank** (Mounting Board)  
 COIN ..... AS-2659-261  
 Same as 3RD COIN CHUTE,  
**13 Bank** (Mounting Board),  
 HI-DEAL, page 79  
 2ND COIN CHUTE ..... AS-2659-253  
 CREDIT ..... AS-2659-285  
 LOCK ..... AS-2659-258  
 Above 3 Relays  
 same as 3 Relays with same names,  
**13 Bank** (Mounting Board)  
 HI-DEAL, page 79

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

**CONTINUED  
 ON  
 NEXT PAGE**

# "G" TYPE RELAYS

## HOKUS POKUS

### 11 Bank (Mounting Board)

RESET ..... AS-2662-287

As illustrated, page 49,

with variable components listed below

Armature ..... P-7469-6

Frame ..... P-7472-9

Spring Retainer ..... P-1552

Switch,

#### Stack A

1st ..... ASW-R3-6

2nd ..... ASW-R2-3

3rd, 4th ..... ASW-R1-3

#### Stack B

1st ..... ASW-R2-17

2nd ..... ASW-R1-6

DELAY ..... AS-2716-2

Same as DELAY,

### 13 Bank (Mounting Board),

HI-DEAL, page 79

OUTHOLE ..... AS-2662-290

BALL INDEX ..... AS-2659-257

### Above 2 Relays

same as 2 Relays with same names,

### 14 Bank (Mounting Board),

BOW AND ARROW, page 80

TILT ..... AS-2659-456

Same as RESET, except

Switch,

1st ..... ASW-R3-6

2nd ..... ASW-R2-17

3rd ..... ASW-R1-3

4th ..... ASW-R1-5

EXTRA BALL ..... AS-2662-312

Same as RESET, except

Switch,

#### Stack A

1st ..... ASW-R2-5

2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

1st ..... ASW-R2-5

2nd ..... ASW-R1-5

BONUS SCORE ..... AS-2662-313

Same as ABCD SERIES,

### 5 Bank (Mounting Board),

HOKUS POKUS, page 81

## OLD CHICAGO

### 4 Bank (Back Cabinet Insert)

1ST PLAYER 1000,000 ... AS-2662-543

2ND PLAYER 100,000 ... AS-2662-543

3RD PLAYER 100,000 ... AS-2662-543

4TH PLAYER 100,000 ... AS-2662-543

### Above 4 Relays are identical

As illustrated, page 49,

with variable components listed below

Armature ..... P-7469-6

Frame ..... P-7472-7

Spring Retainer ..... P-1552

Switch,

#### Stack A

1st ..... ASW-R2-5

2nd, 3rd, 4th ..... ASW-R1-3

#### Stack B

Switch Plate (4) ..... P-137-14

## OLD CHICAGO

### 4 Bank (Playfield Panel)

Relays as illustrated, page 49,

with variable components listed below

SPINNER ..... AS-2659-252

Armature ..... P-7469-6

Frame ..... P-7472-9

Spring Retainer ..... P-1552

Switch,

1st, 2nd ..... ASW-R1X-1

3rd ..... ASW-R1-3

DROP TARGET SPECIAL. AS-2659-260

Same as LEFT AND RIGHT HOLES,

### 6 Bank (Mounting Board),

FLIP FLOP, page 80

ALTERNATOR ..... AS-2662-256

Same as SPINNER, except

Switch,

#### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R3-6

#### Stack B

1st, 2nd, 3rd ..... ASW-R3-6

TOP HOLE ..... AS-2662-259

Same as

TOP HOLE AND CENTER TARGET,

### 5 Bank, (Mounting Board)

BOW AND ARROW, page 79

Switch Plate (as required) ... P-137-14

### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,

with variable components listed below

10 POINT ..... AS-2662-294

Armature ..... P-7469-6

Eyelet (2) ..... M-122-19

Frame ..... P-7472-8

Grommet (2) ..... R-111-29

Spring Retainer ..... P-1552

Switch,

#### Stack A

1st, 2nd, 3rd ..... ASW-R1X-1

4th ..... ASW-R1-3

#### Stack B

1st ..... ASW-R1-3

2nd ..... ASW-R1-6

100 POINT ..... AS-2662-524

Same as 10 POINT, except

Switch,

#### Stack A

1st, 2nd ..... ASW-R1X-1

3rd 4th ..... ASW-R1-3

Stack B ..... ASW-R1-6

1000 POINT ..... AS-2662-525

Same as 10 POINT, except

Switch,

#### Stack B

1st ..... ASW-R1X-1

2nd ..... ASW-R1-6

NO. 1 SCORE RESET ... AS-2662-250

NO. 2 SCORE RESET ... AS-2662-250

### Above 2 Relays are identical

Same as NO. 1 SCORE RESET,

5 Bank (Back Cabinet Insert),

AIR ACES, page 75

Switch Plate (as required) ... P-137-14

## OLD CHICAGO

### 7 Bank (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

BONUS HOLE SCORE ... AS-2662-501

Armature ..... P-7469-6

Frame ..... P-7472-9

Spring Retainer ..... P-1552

Switch,

#### Stack A

1st ..... ASW-R2-5

2nd, 3rd, 4th ..... ASW-R1-3

Stack B ..... ASW-R1-6

5000 BONUS HOLE ... AS-2662-263

Same as BONUS HOLE SCORE,

except

Switch,

#### Stack B

1st ..... ASW-R2-5

2nd ..... ASW-R1-6

PLAYER RESET ..... AS-2659-262

Same as BONUS HOLE SCORE,

except

Switch,

1st ..... ASW-R3-6

2nd ..... ASW-R1-3

3rd ..... ASW-R1-6

OVER THE TOP DELAY .. AS-2716-3

Lamp ..... E-125-44

Lamp Socket ..... E-120-43

Relay ..... AS-2659-469

Same as BONUS HOLE SCORE,

except

Spacer

(Between Frame, Socket) M-1700-5

Switch,

1st ..... ASW-R1-3

2nd ..... ASW-R1-6

500 POINT ..... AS-2662-254

Same as 3000

### 14 Bank (Mounting Board),

BOW AND ARROW, page 80

TARGETS DOWN ..... AS-2662-255

Same as OUTHOLE,

### 14 Bank (Mounting Board),

FLIP FLOP, page 81

GAME OVER ..... AS-2651-81

Interlock Relay: see page 91

Switch Plate (as required) ... P-137-14

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE RELAYS

## CAPT. FANTASTIC

Single Relay (Playfield Panel)

As illustrated, page 49,

with variable components listed below

ALTERNATOR ..... AS-2662-533  
 Armature ..... P-7469-6  
 Frame ..... P-7472-7  
 Spring Retainer ..... P-1552

Switch,

**Stack A**

1st, 2nd, 3rd ..... ASW-R3-6  
 4th ..... ASW-R1-3

**Stack B**

1st, 2nd ..... ASW-R3-6  
 3rd ..... ASW-R2-5  
 4th ..... ASW-R1-3

Switch Plate (2) ..... P-137-14

TARGETS DOWN ..... AS-2662-532

Same as ALTERNATOR, except

Frame ..... P-7472-9

Switch,

**Stack A**

1st ..... ASW-R2-5  
 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**

1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-6

TARGET NO. 1 SEQUENCE . AS-2659-427

Same as ALTERNATOR, except

Switch,

1st, 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-5

Switch Plate (1) ..... P-137-14

TARGET NO. 2 SEQUENCE . AS-2662-531

Same as ALTERNATOR, except

Eyelet (2) ..... M-122-19

Grommet (2) ..... R-111-29

Frame ..... P-7472-8

Switch,

**Stack A**

1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**

..... ASW-R1-5

**4 Bank** (Back Cabinet Insert)

Same as **4 Bank** (Back Cabinet Insert)

OLD CHICAGO, page 82

**5 Bank** (Back Cabinet Insert),

Same as **5 Bank** (Back Cabinet Insert),

OLD CHICAGO, page 82

**7 Bank** (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

300 & 3 ADVANCE ..... AS-2659-293

Same as 500 AND ADVANCE BONUS,

**4 Bank** (Mounting Board),

HI-DEAL, page 78

BOTTOM LINE GATE 300 . AS-2662-526

Same as ALTERNATOR, above, except

Frame ..... P-7472-9

Switch,

**Stack A**

1st ..... ASW-R3-6  
 2nd ..... ASW-R2-5  
 3rd, 4th ..... ASW-R1-3

**Stack B**

..... ASW-R1-6

## CAPT. FANTASTIC

**7 Bank** (CONTINUED)

A ..... AS-2662-527

Same as ALTERNATOR, column one,  
 except

Switch,

**Stack A**

1st, 2nd ..... ASW-R3-6  
 3rd, 4th ..... ASW-R1-3

**Stack B**

1st ..... ASW-R2-5  
 2nd ..... ASW-R1-5

B ..... AS-2662-528

Same as ALTERNATOR, column one,

except

Switch,

**Stack A**

1st, 2nd ..... ASW-R3-6  
 3rd ..... ASW-R2-5  
 4th ..... ASW-R1-3

**Stack B**

500 ..... AS-2662-529

Same as ALTERNATOR, column one,

except

Frame ..... P-7472-9

Switch,

**Stack A**

1st ..... ASW-R3-6  
 2nd, 3rd ..... ASW-R2-5

**Stack B**

1st ..... ASW-R2-5  
 2nd ..... ASW-R1-6

OVER THE TOP DELAY . AS-2716-3

Same as OVER THE TOP DELAY,

**7 Bank** (Mounting Board),

OLD CHICAGO, page 82

GAME OVER ..... AS-2651-61

**Interlock Relay: see page 91**

**14 Bank** (Mounting Board)

Relays as illustrated, page 49,

with variable components listed below

**ASSYS. USED AS REQUIRED**

2ND COIN CHUTE ASSY... AS-2865-2

Molex Connectors

Plug ..... E-660-1200

Terminal ..... E-661-0001

Relay ..... AS-2659-253

Same as 2ND COIN CHUTE

**13 Bank** (Mounting Board),

HI-DEAL, page 79

3RD COIN CHUTE ASSY.. AS-2865-3

Same as 2ND COIN CHUTE ASSY., above

except

Relay ..... AS-2662-258

Same as COIN,

**13 Bank** (Mounting Board),

HI-DEAL, page 79

2 COIN-3 PLAY ASSY.... AS-2865

Same as 2ND COIN CHUTE, above,

except

Relay ..... AS-2659-251

Same as 2ND COIN SET UP

**13 Bank** (Mounting Board),

HI-DEAL, page 79

## CAPT. FANTASTIC

**14 Bank** (CONTINUED)

COIN ..... AS-2662-511

Armature ..... P-7469-6

Eyelet (2) ..... M-122-19

Frame ..... P-7472-10

Grommet (2) ..... R-111-29

Spring Retainer ..... P-1552

Switch,

**Stack A**

1st, 2nd, 3rd, 4th ..... ASW-R1-3

**Stack B**

1st ..... ASW-R2-5  
 2nd ..... ASW-R1-6

CREDIT ..... AS-2662-285

Same as BONUS SCORE,

**13 Bank** (Mounting Board),

HI-DEAL, page 79

LOCK ..... AS-2659-411

Armature ..... P-7469-6

Frame ..... P-7472-9

Spring Retainer ..... P-1552

Switch ..... ASW-R2-5

RESET ..... AS-2662-260

Same as LOCK, above, except

Switch,

**Stack A**

1st, 2nd ..... ASW-R3-6  
 3rd, 4th ..... ASW-R1-3

**Stack B**

1st ..... ASW-R2-17  
 2nd ..... ASW-R2-5  
 3rd ..... ASW-R1-6

DELAY ..... AS-2716-2

Same as DELAY,

**13 Bank** (Mounting Board),

HI-DEAL, page 79

OUTHOLE ..... AS-2662-530

Same as LOCK, above, except

Switch,

**Stack A**

1st, 2nd ..... ASW-R3-6  
 3rd, 4th ..... ASW-R1-3

**Stack B**

1st, 2nd ..... ASW-R2-5  
 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-5

BALL INDEX ..... AS-2659-257

Same as BALL INDEX,

**14 Bank** (Mounting Board)

BOW AND ARROW, page 80

TILT ..... AS-2659-410

Same as LOCK, above, except

Switch,

1st ..... ASW-R2-17  
 2nd, 3rd ..... ASW-R1-3  
 4th ..... ASW-R1-5

EXTRA BALL ..... AS-2659-255

Same as EXTRA BALL,

**14 Bank** (Mounting Board),

BOW AND ARROW, page 80

BONUS SCORE ..... AS-2662-259

Same as

TOP HOLE AND CENTER TARGET,

**5 Bank** (Mounting Board),

BOW AND ARROW, page 79

PLAYER RESET ..... AS-2659-250

Same as LOCK, above, except,

Frame ..... P-7472-7

Switch,

1st ..... ASW-R3-6  
 2nd ..... ASW-R1-3  
 3rd ..... ASW-R1-6

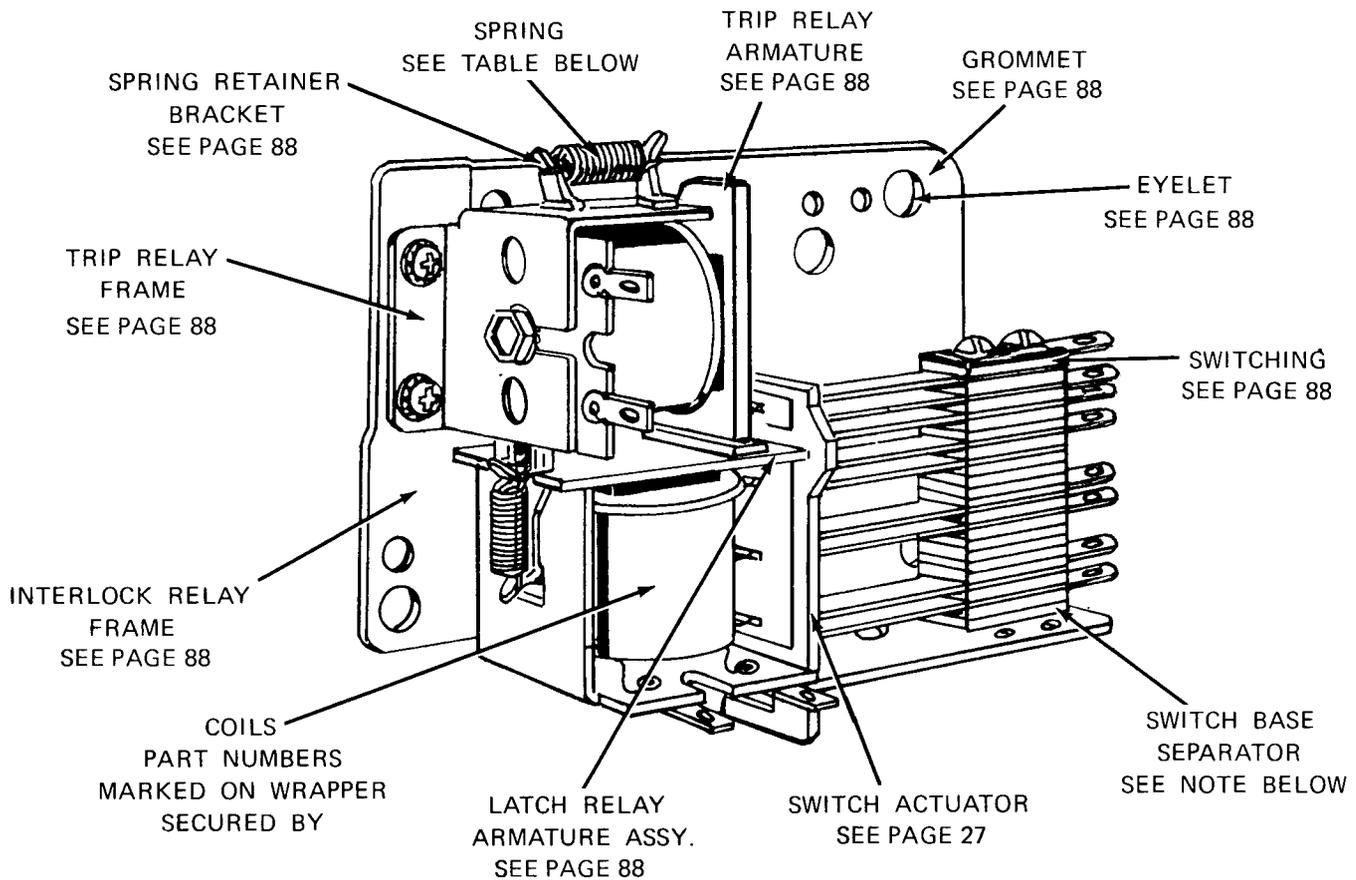
Switch Plate (as required) . . . P-137-14

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# "G" TYPE INTERLOCK RELAYS

## Other "G" Type Relays shown on page 49



### SWITCH BASE SEPARATORS

Switch Base Separators, used only as required, are 9/16 in. by 5/16 in. with 2 holes for switch screw.

- 1/32 in. thick (approximately) . . . SMB-1
- 1/16 in. thick (approximately) . . . SMB-2

### SPRING TABLE

COLOR	PART NO.
Natural (not dyed)	SP-199-28
Red	SP-199-29
Green	SP-199-30

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE INTERLOCK RELAYS

## KEY TO SWITCH LISTING

Switches are listed below in numerical order, commencing with Switch Plate end of each switch-stack.

When 2 switch-stacks are used, stack nearest to Relay Mounting Board is Stack A. Second stack is Stack B.

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Relay, (c) part fastener secures.

## SKYROCKET

### Single Relays

(Back Cabinet Insert)

2ND COIN ..... AS-2651-2

As illustrated, page 87,

with variable components listed below

Armature

Latch Relay ..... A-3518

Trip Relay ..... P-7469-1

Frame

Relay (basic) ..... P-7471

Trip Relay ..... P-7473

Spring Retainer (2) ..... P-7491

Switch,

1st, 2nd ..... ASW-R3-1

3rd ..... ASW-R2-1

4th ..... ASW-R1-3

Switch Plate ..... P-137-12

(Mounting Board)

GAME OVER ..... AS-2651-1

Same as 2ND COIN, except

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R2-1

4th ..... ASW-R1-3-7

## FOUR MILLION B.C.

### Single Relay

(Mounting Board)

GAME OVER ..... AS-2651-1

Same as GAME OVER,

Single Relay (Mounting Board),

SKYROCKET, above

Used in 5 bank (Mounting Board),

FOUR MILLION B.C., page 51

TAR PIT ..... AS-2651-3

Same as 2ND COIN,

Single Relay (Back Cabinet Insert)

SKYROCKET, above, except

Switch,

Stack A

1st, 2nd ..... ASW-R3-1

3rd, 4th ..... ASW-R2-1

Stack B

1st ..... ASW-R3-1

2nd ..... ASW-R2-1

3rd, 4th ..... ASW-R1-3

## EXPRESSWAY

Used in 14 Bank (Mounting Board),

EXPRESSWAY, page 53

GAME OVER ..... AS-2651-5

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1, except

Switch,

1st ..... ASW-R3-1

2nd ..... ASW-R2-1

3rd ..... ASW-R1-3-7

4th ..... ASW-R1-3

Switch Plate ..... P-137-14

TILT ..... AS-2651-4

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1, except

Switch,

1st, 2nd, 3rd ..... ASW-R2-1

4th, 5th ..... ASW-R1-3

Switch Plate ..... P-137-14

## SEA RAY

### Single Relays

(Back Cabinet Insert)

2ND COIN ..... AS-2651-2

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1

(Mounting Board)

GAME OVER ..... AS-2651

Same as 2ND COIN,

Single Relay (Mounting Board)

SKYROCKET, column 1, except

Switch,

1st ..... ASW-R3-1

2nd, 3rd, 4th ..... ASW-R2-1

5th ..... ASW-R3-7

## MARINER

## FIREBALL

### Single Relay

(Mounting Board)

GAME OVER ..... AS-2651

Same as GAME OVER,

SEA RAY, above

## LITTLE JOE

Single Relay (Mounting Board)

GAME OVER ..... AS-2651-18

Same as 2ND COIN,

Single Relay (Back Cabinet Insert)

SKYROCKET, column 1, except

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R2-1

4th ..... ASW-R1-3

5th ..... ASW-R1-3-7

Switch Plate ..... P-137-14

## SPACE TIME

Single Relay (Mounting Board)

GAME OVER ..... AS-2651-8

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1, except

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R2-1

4th ..... ASW-R1-3

5th ..... ASW-R3-7

Switch Plate ..... P-137-14

## MONTE CARLO

Single Relay (Mounting Board)

GAME OVER ..... AS-2651-31

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1, except

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R2-1

4th, 5th ..... ASW-R1-3-7

Switch Plate ..... P-137-14

3 Bank (Back Cabinet Insert)

4TH PLAYER 100,000 ..... AS-2651-28

3RD PLAYER 100,000 ..... AS-2651-28

2ND PLAYER 100,000 ..... AS-2651-28

Above 3 Relays are identical

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, column 1, except

Switch,

1st, 2nd, 3rd ..... ASW-R2-1

4th ..... ASW-R1-3

Switch Plate ..... P-137-14

## ODDS & EVENS

Single Relay (Mounting Board)

GAME ..... AS-2651-17

Same as 2ND COIN,

Single Relay (Back Cabinet Insert),

SKYROCKET, Column 1, this page

Switch,

1st ..... ASW-R3-1

2nd, 3rd ..... ASW-R2-1

4th, 5th ..... ASW-R1-3

Switch Plate ..... P-137-14

CONTINUED  
ON  
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# "G" TYPE INTERLOCK RELAYS

## TIME ZONE

### Single Relays

(Back Cabinet Insert)  
2ND COIN ..... AS-2651-2  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88  
(Mounting Board)  
GAME OVER ..... AS-2651-8  
Same as GAME OVER,  
**Single Relay** (Mounting Board),  
SPACE TIME, page 88

## NIP-IT

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-24  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert)  
SKYROCKET, page 88, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R2-1  
4th, 5th ..... ASW-R1-3-7

## HI-LO ACE

### Single Relays (Mounting Board)

GAME ..... AS-2651-33  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st ..... ASW-R3-1  
2nd, 3rd ..... ASW-R2-1  
4th, 5th, 6th ..... ASW-R1-3  
Switch Plate ..... P-137-14  
TILT ..... AS-2651-25  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st, 2nd, 3rd ..... ASW-R2-1  
4th ..... ASW-R1-3-7  
5th, 6th ..... ASW-R1-3  
Switch Plate ..... P-137-14

## CIRCUS

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-31  
Same as GAME OVER,  
**Single Relay** (Mounting Board)  
MONTE CARLO, page 88

### 4 Bank (Back Cabinet Insert)

4TH PLAYER 100,000 ..... AS-2651-28  
3RD PLAYER 100,000 ..... AS-2651-28  
2ND PLAYER 100,000 ..... AS-2651-28  
1ST PLAYER 100,000 ..... AS-2651-28  
**Above 4 Relays are identical**  
Same as 4TH PLAYER 100,000 POINT,  
**3 Bank** (Back Cabinet Insert),  
MONTE CARLO, page 88

## BIG SHOW

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-31  
Same as GAME OVER,  
**Single Relay** (Mounting Board),  
MONTE CARLO, page 88

## BIG SHOW

### 3 Bank (Back Cabinet Insert)

2ND COIN ..... AS-2651-2  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert)  
SKYROCKET, page 88  
1ST PLAYER 100,000 ..... AS-2651-28  
2ND PLAYER 100,000 ..... AS-2651-28  
**Above 2 Relays are identical**  
Same as 4TH PLAYER 100,000,  
**3 BANK** (Back Cabinet Insert),  
MONTE CARLO, page 88

## CHAMP

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-24  
Same as GAME OVER,  
**Single Relay** (Mounting Board),  
NIP-IT, column 1, this page  
  
**4 Bank** (Back Cabinet Insert)  
Same as 4 Bank (Back Cabinet Insert),  
CIRCUS, column 1, this page

## TWIN WIN

### Single Relay (Mounting Board)

GAME OVER ..... AS-2651-24  
Same as GAME OVER,  
**Single Relay** (Mounting Board)  
NIP-IT, column 1, this page  
  
**Used in 4 Bank (Back Cabinet Insert),**  
**TWIN WIN, page 67**  
2ND COIN ..... AS-2651-35  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st, 2nd ..... ASW-R3-1  
3rd ..... ASW-R2-1  
4th, 5th, 6th ..... ASW-R1-3

## SKY KINGS

### Single Relay (Back Cabinet Insert)

100,000 POINT ..... AS-2651-28  
Same as 4TH PLAYER 100,000,  
**3 Bank** (Back Cabinet Insert),  
MONTE CARLO, page 88  
**Single Relays** (Mounting Board)  
GAME ..... AS-2651-17  
Same as GAME,  
**Single Relay** (Mounting Board),  
ODDS & EVENS, page 88  
GAME OVER ..... AS-2651-39  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-3  
4th, 5th ..... ASW-R1-37  
Switch Plate ..... P-137-14

## SKY KINGS

TILT ..... AS-2651-40  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st, 2nd, 3rd, 4th ..... ASW-R2-1  
5th ..... ASW-R1-37  
6th ..... ASW-R1-3  
Switch Plate ..... P-137-14

## AMIGO

Same as in CHAMP,  
column 2, this page

## DELTA QUEEN

### Single Relays

(Back Cabinet Insert)  
100,000 POINT ..... AS-2651-28  
Same as 4TH PLAYER 100,000,  
**3 Bank** (Back Cabinet Insert),  
MONTE CARLO, page 88  
(Mounting Board)  
GAME OVER ..... AS-2651-6  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st ..... ASW-R3-1  
2nd ..... ASW-R2-1  
3rd ..... ASW-R1-3  
4th ..... ASW-R1-3-7  
Switch Plate ..... P-137-14

### Used in 5 Bank (Mounting Board), DELTA QUEEN, page 71

Game ..... AS-2651-17  
Same as GAME,  
**Single Relay** (Mounting Board),  
ODDS & EVENS, page 88  
TILT ..... AS-2651-38  
Same as 2ND COIN,  
**Single Relay** (Back Cabinet Insert),  
SKYROCKET, page 88, except  
Switch,  
1st, 2nd ..... ASW-R3-1  
3rd, 4th ..... ASW-R2-1  
5th ..... ASW-R1-3-7  
6th ..... ASW-R1-3  
Switch Plate ..... P-137-14

## ROGO

### Single Relay (Mounting Board),

GAME OVER ..... AS-2651-1  
Same as GAME OVER,  
**Single Relay** (Mounting Board),  
SKYROCKET, page 88

### 4 Bank (Back Cabinet Insert)

Same as 4 Bank (Back Cabinet Insert),  
CIRCUS, column 1, this page

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# "G" TYPE INTERLOCK RELAYS

## BON VOYAGE

### Single Relays

(Back Cabinet Insert)

100,000 ..... AS-2651-41

Same as 2ND COIN,

**Single Relay** (Back Cabinet Insert),

SKYROCKET, page 88, except  
Switch,

#### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R2-1

#### Stack B

1st ..... ASW-R2-1

2nd ..... ASW-R1-3

Switch Plate (2) ..... P-137-14

(Mounting Board)

GAME ..... AS-2651-17

Same as GAME,

**Single Relay** (Mounting Board),

ODDS & EVENS, page 88

Used in 4 Bank (Mounting Board),

**BON VOYAGE**, page 73

TILT ..... AS-2651-25

Same as TILT,

**Single Relay** (Mounting Board),

HI-LO ACE, page 89

## BOOMERANG

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-24

Same as GAME OVER,

**Single Relay** (Mounting Board),

NIP-IT, page 89

**4 Bank** (Back Cabinet Insert)

Same as **4 Bank** (Back Cabinet Insert),

CIRCUS, page 89

## FLICKER

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-24

Same as GAME OVER,

**Single Relay** (Mounting Board),

NIP-IT, page 89

**3 Bank** (Back Cabinet Insert),

Same as **3 Bank** (Back Cabinet Insert),

BIG SHOW, page 89

## AIR ACES

**Single Relay** (Mounting Board),

GAME OVER ..... AS-2651

Same as GAME OVER

**Single Relay** (Mounting Board),

SEA RAY, page 88

## KNOCKOUT

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-31

Same as GAME OVER,

**Single Relay** (Mounting Board),

MONTE CARLO, page 88

## KNOCKOUT

**3 Bank** (Back Cabinet Insert)

2ND COIN ..... AS-2651-2

Same as 2ND COIN,

**Single Relay** (Back Cabinet Insert),

SKYROCKET, page 88

1ST PLAYER 100,000 ..... AS-2651-44

2ND PLAYER 100,000 ..... AS-2651-44

**Above 2 Relays are identical**

Same as 2ND COIN,

**Single Relay** (Mounting Board),

SKYROCKET, page 88, except

Switch,

#### Stack A

1st, 2nd, 3rd, 4th ..... ASW-R2-1

#### Stack B

1st, 2nd ..... ASW-R2-1

3rd ..... ASW-R1-3

Switch Plate (2) ..... P-137-14

## WIZARD

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-50

As illustrated, page 87,

with variable components listed below

Armature,

Latch ..... A-3518-1

Trip ..... P-7469-7

Frame

Relay (basic) ..... P-7471-1

Trip ..... P-7473-1

Spring Retainer (2) ..... P-1552

Switch,

1st ..... ASW-R3-6

2nd, 3rd ..... ASW-R2-5

4th, 5th ..... ASW-R3-7

Switch Plate ..... P-137-14

**4 Bank** (Back Cabinet Insert)

4TH PLAYER 100,000 ..... AS-2651-52

3RD PLAYER 100,000 ..... AS-2651-52

2ND PLAYER 100,000 ..... AS-2651-52

1ST PLAYER 100,000 ..... AS-2651-52

**Above 4 Relays are identical**

Same as GAME OVER, above, except

Switch,

1st, 2nd, 3rd, 4th, 5th ..... ASW-R2-5

6th ..... ASW-R1-3

Switch Plate ..... P-137-14

Used in 6 Bank (Back Cabinet Insert)

WITH INTERLOCK RELAYS,

WIZARD, page 77

NO. 1 FLIP ..... AS-2651-45

NO. 2 FLIP ..... AS-2651-45

NO. 3 FLIP ..... AS-2651-45

NO. 4 FLIP ..... AS-2651-45

Same as 2ND COIN,

**Single Relay** (Back Cabinet Insert)

SKYROCKET page 88, except

Switch,

#### Stack A

1st ..... ASW-R3-1

2nd, 3rd, 4th ..... ASW-R2-1

#### Stack B

1st, 2nd, 3rd, 4th ..... ASW-R1-3

Switch Plate (2) ..... P-137-14

## HI-DEAL

**Single Relays** (Mounting Board)

GAME ..... AS-2651-53

Same as GAME OVER,

**Single Relay** (Mounting Board),

WIZARD, column 2, except

Switch,

1st ..... ASW-R3-6

2nd, 3rd ..... ASW-R2-5

4th, 5th ..... ASW-R1-3

GAME OVER ..... AS-2651-54

Same as GAME, above, except

Switch,

1st ..... ASW-R3-6

2nd ..... ASW-R2-5

3rd ..... ASW-R1-3

4th, 5th ..... ASW-R1-37

## BOW AND ARROW

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-55

Same as GAME OVER,

**Single Relay** (Mounting Board),

WIZARD, column 2, except

Switch,

1st ..... ASW-R3-6

2nd, 3rd ..... ASW-R2-5

4th, 5th ..... ASW-R1-37

**4 Bank** (Back Cabinet Insert),

Same as **4 Bank** (Back Cabinet Insert),

WIZARD, column 2

## FLIP FLOP

**Single Relay** (Mounting Board)

GAME OVER ..... AS-2651-63

Same as GAME OVER,

**Single Relay** (Mounting Board),

WIZARD, Column 2, except

Switch,

1st ..... ASW-R3-6

2nd, 3rd ..... ASW-R2-5

4th ..... ASW-R1-37

**4 Bank** Back Cabinet Insert)

Same as **4 Bank** (Back Cabinet Insert),

WIZARD, Column 2

## HOKUS POKUS

**Single Relays**

(Back Cabinet Insert)

2ND COIN ..... AS-2651-56

Same as GAME OVER,

**Single Relay** (Mounting Board),

WIZARD, page 90, except

Switch, Column 2, except

1st, 2nd ..... ASW-R3-6

3rd, 4th ..... ASW-R2-5

5th ..... ASW-R1-3

(Mounting Board)

GAME OVER ..... AS-2651-55

Same as GAME OVER,

**Single Relay** (Mounting Board),

BOW AND ARROW, above

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

CONTINUED  
ON  
NEXT PAGE

# "G" TYPE INTERLOCK RELAYS

## OLD CHICAGO

Included in

7 Bank (Mounting Board)

OLD CHICAGO, page 82

GAME OVER . . . . . AS-2651-61

Same as GAME OVER,

Single Relay (Mounting Board),

WIZARD, page 90, except

Frame,

Latch (basic relay) . . . . . P-7471-2

Switch,

### Stack A

1st, 2nd . . . . . ASW-R3-6

3rd, 4th . . . . . ASW-R2-5

### Stack B

1st . . . . . ASW-R2-5

2nd, 3rd . . . . . ASW-R1-37

Switch Plate (2) . . . . . P-137-14

## CAPT. FANTASTIC

Included in

7 Bank (Mounting Board),

CAPT. FANTASTIC, page 83

GAME OVER . . . . . AS-2651-61

Same as GAME OVER,

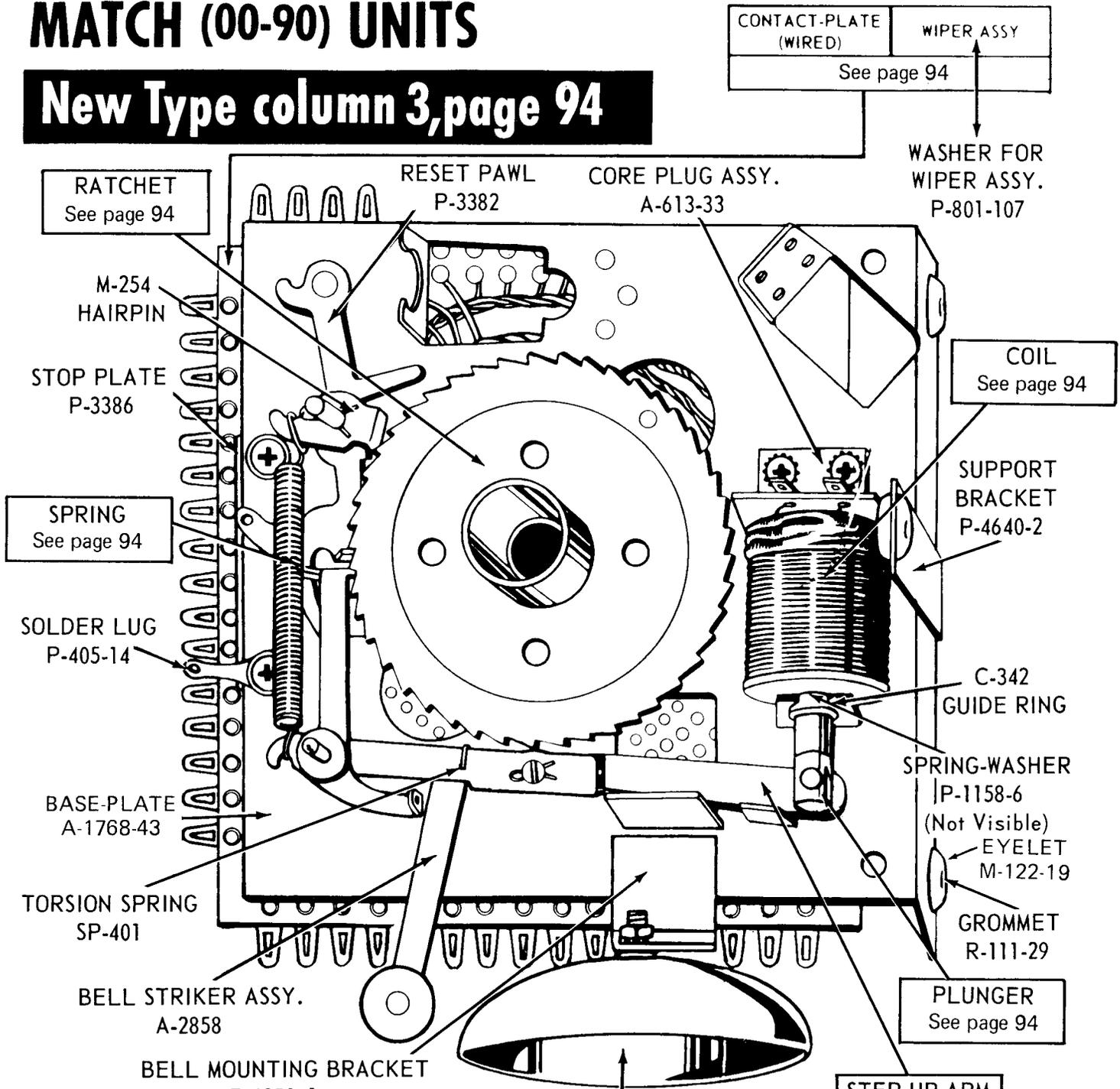
OLD CHICAGO, above

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# MATCH (00-90) UNITS

## New Type column 3, page 94



### TO SILENCE BELL

Loosen Bell by turning in counter-clockwise direction.  
 Lower Bell to bottom of slot in mounting-bracket.  
 Tighten Bell by turning in clockwise direction.

### ADJUSTMENTS

See adjustment instructions, page 97.

BELL ASSY. A-2859  
 SECURED BY NUT N-1032-1110  
 WASHER PW-10-10  
 WASHER P-801-15

SECURED BY PIVOT PIN S-737-48 AND ELASTIC STOP NUT M-319-3

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# MATCH (00-90) UNITS

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

## SKYROCKET

**Match Unit** . . . . . AS-827-438  
As illustrated, page 93, with  
Bracket, Mounting . . . . . P-5052-31  
Coil . . . . . C-26-1100  
Contact Plate (wired) . . . . . W-1034-11  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Spring, Extension (red) . . . . . SP-100-125  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-627

## FOUR MILLION B.C.

**Match Unit** . . . . . AS-827-404  
Same as in SKYROCKET, except  
Contact Plate (wired) . . . . . W-1034-9  
Wiper Assy. . . . . AS-1046-501

## EXPRESSWAY

**Match Unit** . . . . . AS-827-445  
Same as in SKYROCKET, except  
Contact Plate (wired) . . . . . W-1123-10

## SEA RAY

## MARINER

**Match Unit** . . . . . AS-827-456  
Same as in SKYROCKET, except  
Contact Plate (wired) . . . . . W-1123-12  
Plunger . . . . . S-496-162  
Ratchet & Shaft . . . . . C-1060  
Step-up Arm Assy. . . . . A-1765-19  
Wiper Assy. . . . . AS-1046-654

## FIREBALL

Same as in FOUR MILLION B.C.

## EL TORO

**Match Unit** . . . . . AS-827-464  
Same as in SKYROCKET, except  
Bell Components . . . . . NOT USED  
Contact Plate (wired) . . . . . W-1034-14

## LITTLE JOE

**Match Unit** . . . . . AS-827-490  
Same as in EL TORO, except  
Contact Plate (wired) . . . . . W-1034-9  
Wiper Assy. . . . . AS-1046-501

## SPACE TIME

**Match Unit** . . . . . AS-827-499  
Same as in EL TORO, except  
Contact Plate (wired) . . . . . W-1034-16  
Wiper Assy. . . . . AS-1046-501

## MONTE CARLO

**Match Unit** . . . . . AS-827-516  
Same as in EL TORO, except  
Coil . . . . . B-27-1300  
Contact Plate (wired) . . . . . W-1123-17  
Plunger . . . . . S-496-162  
Ratchet & Shaft . . . . . C-1060  
Spring, Extension (black) . . . . . SP-100-120  
Step-up Arm Assy. . . . . A-1765-19  
Wiper Assy. . . . . AS-1046-614

## ODDS & EVENS

**Match Unit** . . . . . AS-827-487  
Same as in MONTE CARLO, except  
Coil . . . . . B-26-1100  
Contact Plate (wired) . . . . . W-1123-14  
Spring, Extension (red) . . . . . SP-100-125  
Wiper Assy. . . . . AS-1046-682

## TIME ZONE

**Match Unit** . . . . . AS-827-498  
Same as in MONTE CARLO, except  
Contact Plate (wired) . . . . . W-1123-16  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Step-up Arm Assy. . . . . A-1765-28  
Wiper Assy. . . . . AS-1046-627

## NIP-IT

**Match Unit** . . . . . AS-827-512  
Same as in MONTE CARLO, except  
Contact Plate (wired) . . . . . W-1034-17  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-501

## HI-LO ACE

**Match Unit** . . . . . AS-827-518  
Same as in MONTE CARLO, except  
Contact Plate (wired) . . . . . W-1034-12  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-627

## CIRCUS

**Match Unit** . . . . . AS-827-530  
Same as in MONTE CARLO, except  
Contact Plate (wired) . . . . . W-1034-18  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-501

## BIG SHOW

Same as in HI-LO ACE

## CHAMP

Same as in MONTE CARLO, except  
**Match Unit** . . . . . AS-827-549  
Contact Plate (wired) . . . . . W-1034-9  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Spring, Extension  
Black . . . . . SP-100-120  
Red . . . . . SP-100-125  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-501

## TWIN WIN

**Match Unit** . . . . . AS-827-551  
Same as in MONTE CARLO, except  
Contact Plate (wired) . . . . . W-1034-19  
Plunger . . . . . S-496-100  
Ratchet & Shaft . . . . . C-1050  
Spring, Extension  
Black . . . . . SP-100-120  
Red . . . . . SP-100-125  
Step-up Arm Assy. . . . . A-1765-18  
Wiper Assy. . . . . AS-1046-627

## SKY KINGS

**Match Unit** . . . . . AS-1900-165  
Same as Score Counter Unit,  
Illustrated, page 111, except  
Base Plate Assy. . . . . A-2214-30  
Bracket Mounting . . . . . P-6512-1  
Bushing  
(Used with Shoulder Stud) . . . . . S-231-730  
Contact Plate (wired)  
Attached to Base Plate . . . . . W-999-28  
Opposite W-999-28 . . . . . W-999-29  
Elastic Stop Nut  
(Used with Shoulder Stud) . . . . . M-319-28  
Eyelet (3) . . . . . M-122-22  
Grommet (3) . . . . . R-111-29  
Reel Lock . . . . . NOT USED  
Shoulder Stud . . . . . S-2028  
Spacer (black)  
(Between 2 Contact Plates) . . . . . M-1514-32  
Stop Plate . . . . . P-5222-1  
Switch . . . . . NOT USED  
Wiper Assy.  
Used with W-999-28 . . . . . A-1618-3  
Used with W-999-29 . . . . . A-1618-4

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# MATCH (00-90) UNITS

## AMIGO

Same as in CHAMP, page 94

## DELTA QUEEN

Match Unit . . . . . AS-1900-159

Same as in SKY KINGS,  
page 94, except

Ratchet . . . . . C-704-2  
Switch . . . . . ASW-M100-2  
Switch Plate . . . . . P-137-13

## ROGO

Match Unit . . . . . AS-1900-168

Same as in SKY KINGS,  
page 94, except

Ratchet . . . . . C-704-2  
Switch . . . . . ASW-M200-2  
Switch Plate . . . . . P-137-13

## BON VOYAGE

## BOOMERANG

Match Unit . . . . . AS-1900-171

Same as in SKY KINGS,  
page 94, except

Base Plate Assy. . . . . A-2214-24  
Rocker Arm . . . . . NOT USED  
Several Minor components . NOT USED

## FLICKER

Match Unit . . . . . AS-1900-170

Same as in SKY KINGS,  
page 94, except

Base Plate Assy. . . . . A-2214-24  
Rocker Arm . . . . . NOT USED  
Several minor components . NOT USED

## AIR ACES

Match Unit . . . . . AS-1900-175

Same as in SKY KINGS,  
page 94, except

Base Plate Assy. . . . . A-2214-24  
Rocker Arm . . . . . C-703-1  
Several minor components . NOT USED  
Switch . . . . . ASW-M100-2  
Switch Plate . . . . . P-137-13

## KNOCKOUT

## WIZARD

WIZARD

Same as in BON VOYAGE

## HI-DEAL

Match Unit . . . . . AS-827-611

Same as in EL TORO,  
page 94, except

Coil . . . . . B-27-1300  
Contact Plate (wired) . . . . W-1034-20  
Spring, Extension (black) . . SP-100-120

## BOW AND ARROW

## FLIP-FLOP

Same as in BON VOYAGE

## HOKUS POKUS through\* CAPT. FANTASTIC

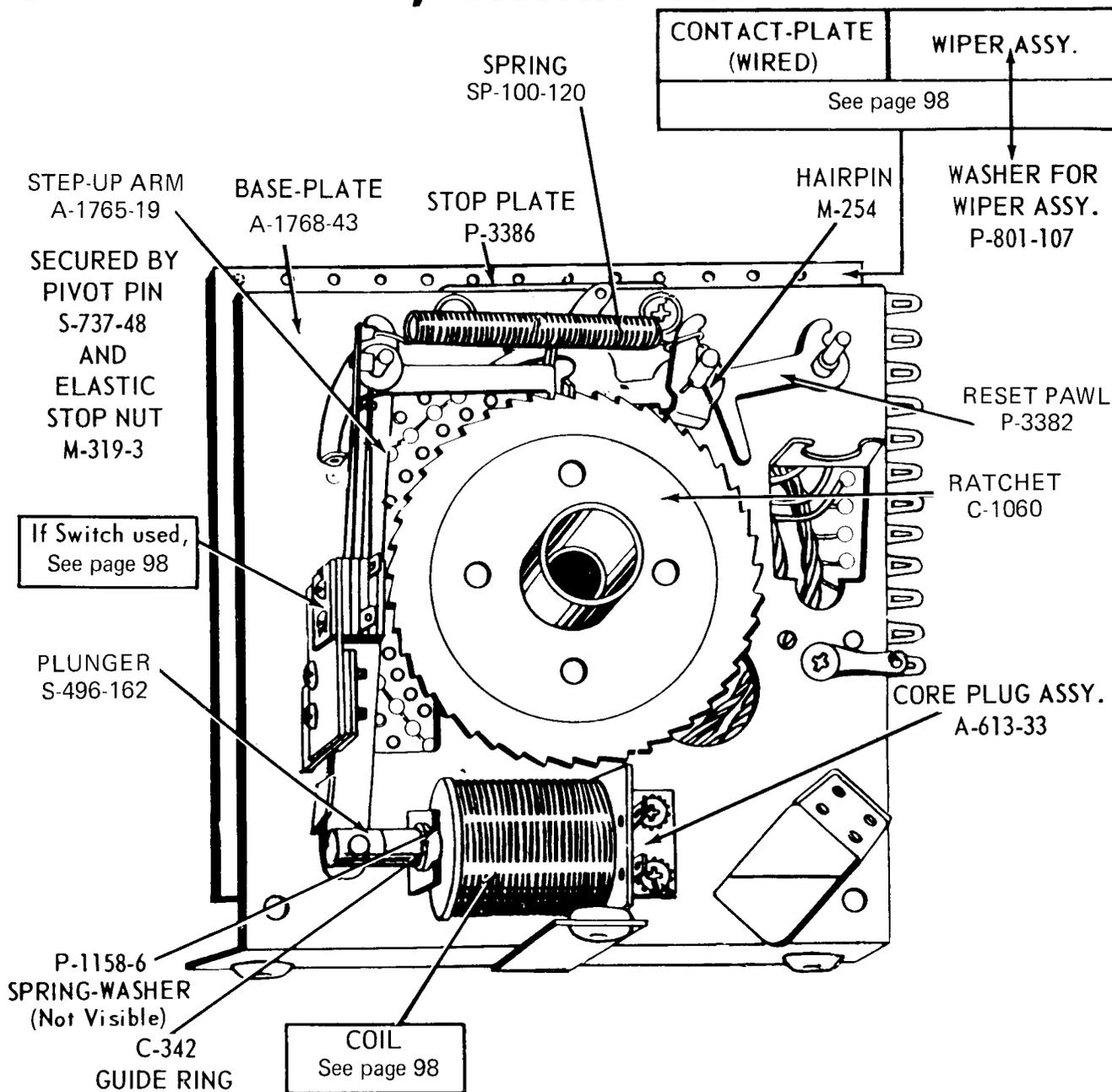
Same as in AIR ACES

\*See chronological list of games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# STEPPING UNITS, CONTINUOUS



Check unit manually by operating Plunger. After Index Pawl drops into position at base of ratchet-tooth (point at which straight and angular edges of tooth meet), Step-up Arm should over-ride approximately 1/64 in. before being stopped by Step-up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Index Pawl should then properly drop into base of tooth, without binding, when Plunger is lightly operated (without pushing Plunger all the way in). Adjust Stop-Plate against top of Step-up Arm so that unit will step when Step-up Arm is operated manually.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, CONTINUOUS

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

## LITTLE JOE

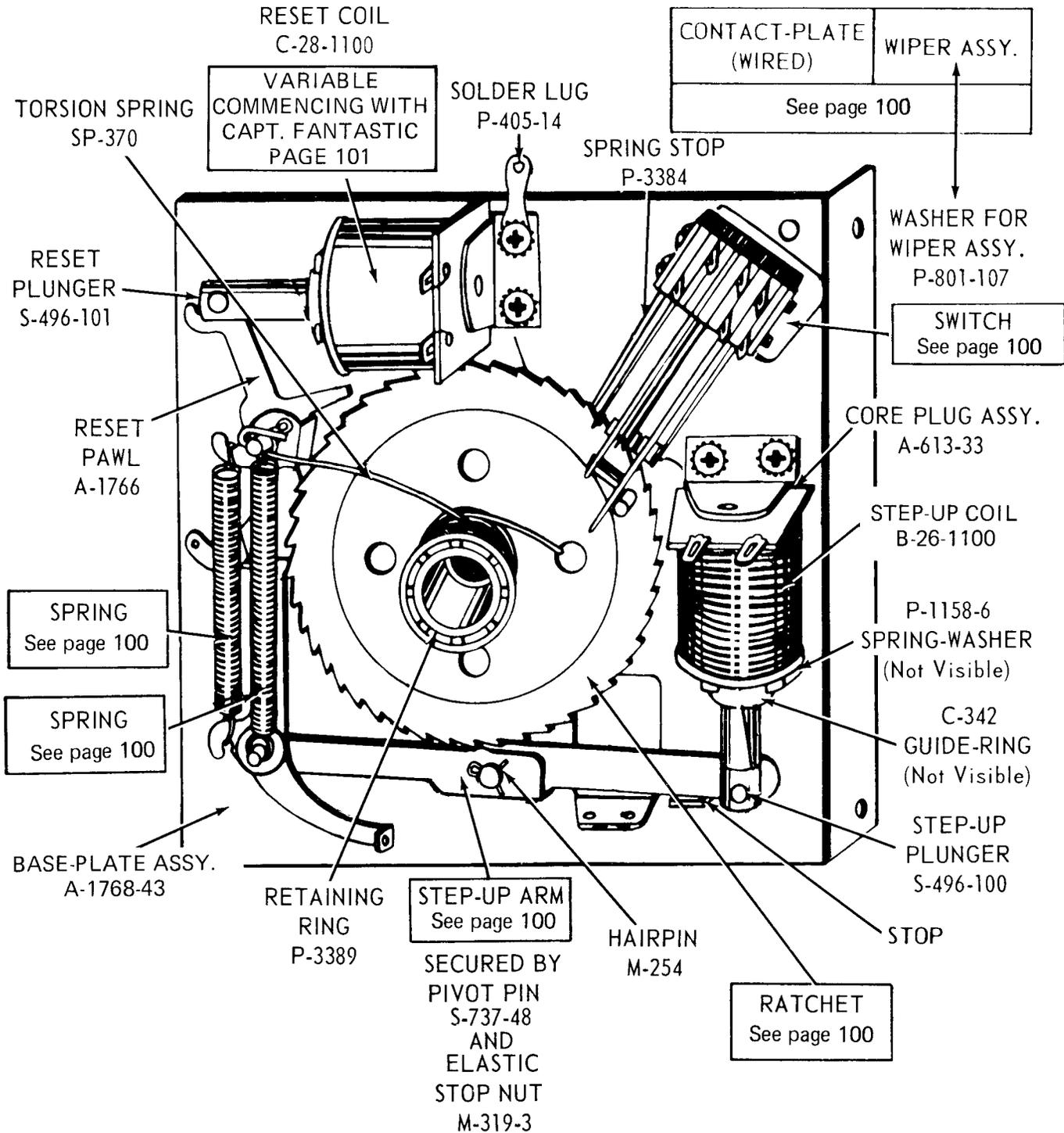
**2nd Dice Unit** ..... AS-827-489  
As illustrated, page 97, with  
Coil ..... B-26-1100  
Contact Plate (wired) ..... W-1123-15  
Switch ..... ASW-U20  
Wiper Assy. .... AS-1046-689

## KNOCKOUT

**Center Lane Unit** ..... AS-827-592  
As illustrated, page 97, with  
Coil ..... B-27-1300  
Contact Plate (wired) ..... W-1123-18  
Wiper Assy. .... AS-1046-781

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, FULL RESET



Operate Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger, and while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit

manually by operating Step-Up Plunger. After Reset Pawl drops into position described above. Step-Up Arm should over-ride approximately 1/64 in. before being stopped by Step-Up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, FULL RESET

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

## SKYROCKET

**Ball Count Unit** . . . . . AS-827-437  
 As illustrated, page 99, with  
 Contact Plate (wired) . . . . . W-1043-13  
 Ratchet & Shaft . . . . . C-1050-10  
 Spring, Extension,  
 Black . . . . . SP-100-120  
 Green . . . . . SP-100-113  
 Step-up Arm Assy. . . . . A-1765-8  
 Switch,  
 End of stroke (Make) . . . . . ASW-U10  
 Zero,  
 Break . . . . . ASW-U20-2  
 Transfer . . . . . ASW-U30  
 Switch Mounting Bracket . . . . . P-126-247  
 Switch Plate,  
 Flat . . . . . P-126-154  
 Spring . . . . . P-137-5  
 Wiper Assy. . . . . AS-1046-618

## FOUR MILLION B.C.

**Ball Count Unit** . . . . . AS-827-439  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (Wired) . . . . . W-1043-17  
 Ratchet & Shaft . . . . . C-1050-6  
 Wiper Assy. . . . . AS-1046-648  
**Coin Unit** . . . . . AS-827-417  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-923-208  
 Ratchet & Shaft . . . . . C-1050-3-34  
 Ratchet Pin. . . . . M-740  
 Spring, Extension (2) . . . . . SP-100-120  
 Step-up Arm Assy. . . . . A-1765-4  
 Switch, Limit (Break) . . . . . ASW-U2-5  
 Wiper Assy. . . . . AS-1024-108  
**Player-up Unit** . . . . . AS-827-403  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Bushing (with Contact Strip). S-231-332  
 Contact Plate (wired) . . . . . W-923-207  
 Contact Strip Assy. . . . . A-1119-77  
 Ratchet & Shaft . . . . . C-1050-3  
 Spring, Retaining . . . . . SP-433  
 Switch,  
 Build-up (no blade) . . . . . ASW-U0  
 End of Stroke (Break) . . . . . ASW-U20  
 Zero (Break) . . . . . ASW-U2  
 Wiper Assy. . . . . AS-1046-620

## EXPRESSWAY

**Ball Count Unit** . . . . . AS-827-427  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-1043-15  
 Ratchet & Shaft . . . . . C-1050-5  
 Switch, Zero,  
 Break . . . . . ASW-U2  
 Make. . . . . ASW-U1-1  
 Wiper Assy. . . . . AS-1046-626  
**Name Unit** . . . . . AS-827-446  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-1077-7  
 Switch, End of stroke . . . . . ASW-U20  
 Wiper Assy. . . . . AS-1046-650

## SEA RAY

**Ball Count Unit**  
 Same as **Ball Count Unit**, SKYROCKET

## MARINER

**Ball Count Unit** . . . . . AS-827-463  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-1043-17  
 Ratchet & Shaft . . . . . C-1050-600  
 Switch,  
 Break-Break . . . . . ASW-U22  
 End of stroke . . . . . ASW-U10  
 Wiper Assy. . . . . AS-1046-648  
**Coin Unit** . . . . . AS-827-460  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-923-260  
 Ratchet & Shaft . . . . . C-1050-334  
 Ratchet Pin. . . . . M-740  
 Spring Extension (2) . . . . . SP-100-120  
 Step-up Arm Assy. . . . . A-1765-4  
 Switch, Limit (Break) . . . . . ASW-U2-5  
 Wiper Assy. . . . . AS-1024-108  
**Player-up Unit** . . . . . AS-827-461  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Bushing (with Contact Strip). S-231-332  
 Contact Plate (wired) . . . . . W-923-207  
 Contact Strip Assy. . . . . A-1119-77  
 Ratchet & Shaft . . . . . C-1050-300  
 Spring, Retaining . . . . . SP-433  
 Switch, Break-Break . . . . . ASW-U22  
 Wiper Assy. . . . . AS-1046-620

## FIREBALL

**Ball Count Unit**  
**Coin Unit**  
 Above 2 Units same as in MARINER  
**Player-up Unit** . . . . . AS-827-467  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Bushing (with Contact Strip). S-231-332  
 Contact Plate (wired) . . . . . W-923-207  
 Contact Strip Assy. . . . . A-1119-77  
 Ratchet & Shaft . . . . . C-1050-300  
 Spring, Retaining . . . . . SP-433  
 Switch,  
 Break-Break . . . . . ASW-U22  
 End of stroke . . . . . ASW-U20  
 Wiper Assy. . . . . AS-1046-620

## EL TORO

**Ball Count Unit** . . . . . AS-827-407  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Contact Plate (wired) . . . . . W-1043-15  
 Ratchet & Shaft . . . . . C-1050-5  
 Switch,  
 Build-up (no blade) . . . . . ASW-U0  
 Zero (Break) . . . . . ASW-U2  
 Wiper Assy. . . . . AS-1046-626

## LITTLE JOE

## SPACE TIME

## MONTE CARLO

Units same as in MARINER

## TIME ZONE

**Ball Count Unit** . . . . . AS-827-469  
 Same as **Ball Count Unit**, SKYROCKET,  
 except  
 Ratchet & Shaft . . . . . C-1050-1000  
 Switch,  
 Break-Break . . . . . ASW-U22  
 End of stroke . . . . . ASW-U10

CONTINUED  
 ON  
 NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# STEPPING UNITS, FULL RESET

## NIP-IT

**Ball Count Unit**

Same as in **MARINER**

**Bonus Unit** . . . . . AS-827-513

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1072-26

Ratchet & Shaft . . . . . C-1050-1000

Spring, Extension (2) . . . . . SP-100-120

Switch,

End of Stroke . . . . . ASW-U20

Zero,

Break . . . . . ASW-U2

Make . . . . . ASW-U1-2

Wiper Assy. . . . . AS-1046-698

**Coin Unit**

Same as in **MARINER**, page 100

**Player-up Unit**

Same as in **FIREBALL**, page 100

## CIRCUS

**Ball Count Unit** . . . . . AS-827-531

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1043-21

Ratchet & Shaft . . . . . C-1050-600

Switch,

Break-Break . . . . . ASW-U22

End of Stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-727

**Coin Unit**

**Player-up Unit**

Above 2 Units same as in **MARINER**,

page 100

## BIG SHOW

**Ball Count Unit** . . . . . AS-827-546

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1043-22

Ratchet & Shaft . . . . . C-1050-100

Switch,

Break-Break . . . . . ASW-U22

End of stroke . . . . . ASW-W10

Wiper Assy. . . . . AS-1046-738

## CHAMP

**Ball Count Unit** . . . . . AS-827-547

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-827-547

Ratchet & Shaft . . . . . C-1050-600

Switch,

Break-Break . . . . . ASW-U22

End of stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-727

**Coin Unit**

**Player-up Unit**

Above 2 Units same as in **MARINER**,

page 100

## TWIN WIN

**Ball Count Unit**

Same as **TIME ZONE**

## AMIGO

**Ball Count Unit**

Same as in **CIRCUS**

**Coin Unit**

**Player-Up Unit**

Above 2 Units same as in **MARINER**,

page 100

## DELTA QUEEN

**Bonus Unit** . . . . . AS-827-562

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Bracket . . . . . P-5052-30

Contact Plate (wired) . . . . . W-1072-37

Eyelet (3 used) . . . . . M-122-19

Grommet (3 used) . . . . . R-111-29

Plate, Shock Mounting . . . . . P-4640-2

Ratchet & Shaft . . . . . C-1050-941

Spring, Extension (2) . . . . . SP-100-120

Switch,

End of stroke . . . . . ASW-U20

Limit (Break) . . . . . ASW-U1-11

Wiper Assy. . . . . AS-1046-750

## ROGO

## BOOMERANG

Units same as in **MARINER**,

page 100

## FLICKER

**Ball Count Unit**

Same as in **TIME ZONE**,

page 100

## AIR ACES

Units same as in **MARINER**,

page 100

## KNOCKOUT

**Ball Count Unit**

Same as in **TIME ZONE**,

page 100

**Hole Unit** . . . . . AS-827-594

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1072-43

Ratchet & Switch . . . . . C-1050-200

Switch . . . . . NOT USED

Wiper Assy. . . . . AS-1046-782

## WIZARD

## BOW AND ARROW

Units same as in **MARINER**,

page 100

## FLIP FLOP

**Ball Count Unit** . . . . . AS-827-604

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1043-27

Ratchet & Shaft . . . . . C-1050-600

Switch,

Break-Break . . . . . ASW-U22

End of stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-791

**Coin Unit**

**Player-Up Unit**

Above 2 Units same as in **MARINER**,

page 100

## HOKUS POKUS

**Ball Count Unit** . . . . . AS-827-616

Same as **Ball Count Unit**, **SKYROCKET**,

Page 100, except

Contact Plate (wired) . . . . . W-1043-28

Switch,

Break-Break . . . . . ASW-U22

End of stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-801

## OLD CHICAGO

**Ball Count Unit** . . . . . AS-827-622

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Contact Plate (wired) . . . . . W-1043-29

Ratchet & Shaft . . . . . C-1050-600

Soldering Terminal . . . . . P-405-14

Switch,

Break-Break . . . . . ASW-U22

End of stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-802

**Coin Unit**

**Player-up Unit**

Above 2 Units same as in **MARINER**,

page 100

## CAPT. FANTASTIC

**Ball Count Unit** . . . . . AS-827-629

Same as **Ball Count Unit**, **SKYROCKET**,

page 100, except

Coil, Reset . . . . . CD-29-1600

Contact Plate (wired) . . . . . W-1043-31

Ratchet & Shaft . . . . . C-1050-0600

Switch,

Break-Break . . . . . ASW-22

End of Stroke . . . . . ASW-U10

Wiper Assy. . . . . AS-1046-809

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, FULL RESET

## CAPT. FANTASTIC

Coin Unit . . . . . AS-827-626

Same as **Ball Count Unit**, SKYROCKET,  
page 100, except

Coil, Reset . . . . . CD-29-1600

Contact Plate (wired) . . . . . W-923-260

Ratchet & Shaft . . . . . C-1050-334

Ratchet Pin . . . . . M-740

Spring, Extension (2) . . . . . SP-100-120

Step-up Arm Assy. . . . . A-1765-4

Switch . . . . . ASW-U2-5

Wiper Assy. . . . . AS-1024-108

**Player-up Unit** . . . . . AS-827-624

Same as **Ball Count Unit**, SKYROCKET,  
page 100, except

Bushing . . . . . S-231-332

Coil, Reset . . . . . CD-29-1600

Contact Plate (wired) . . . . . W-923-440

Contact Strip Assy. . . . . A-1119-84

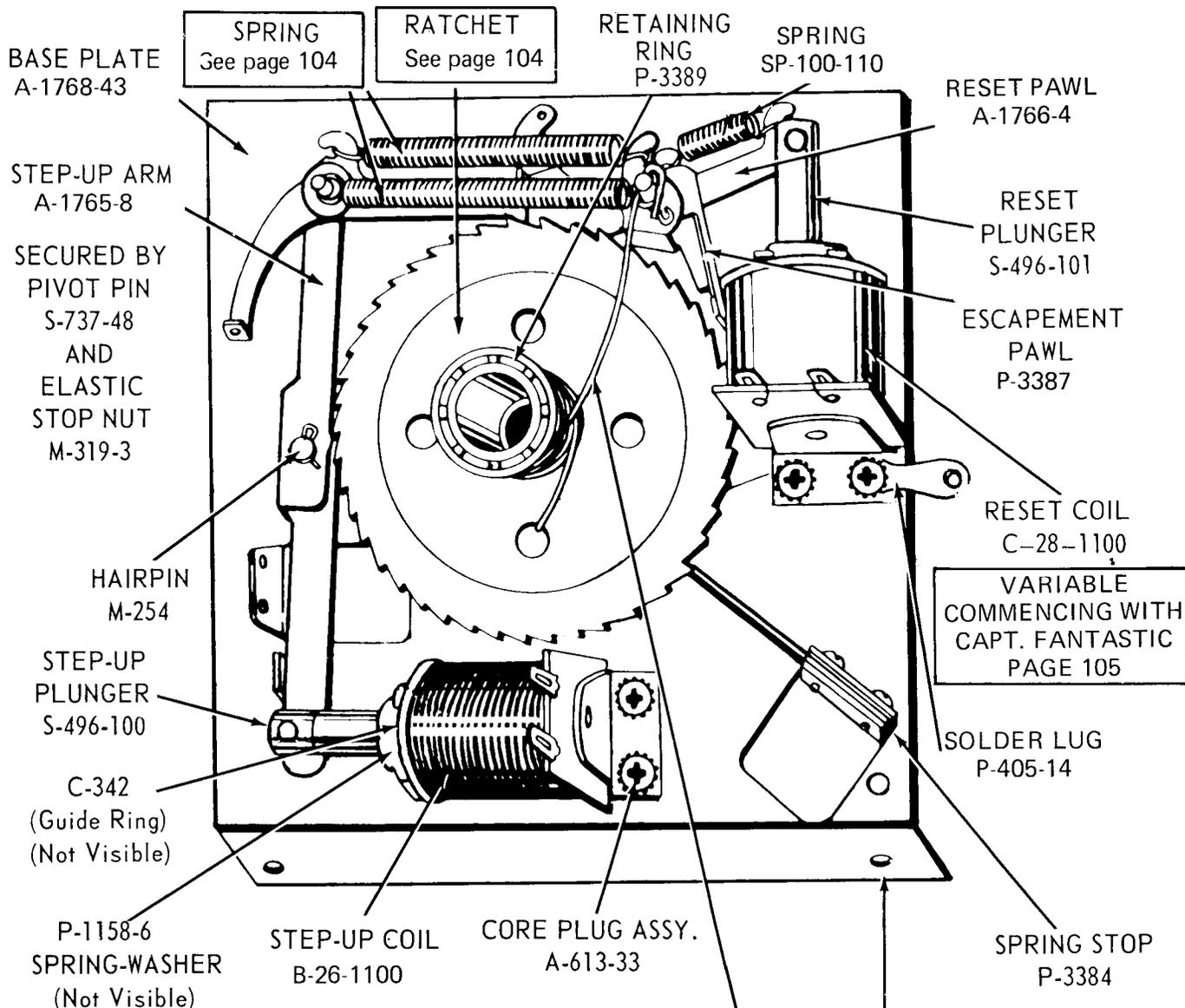
Spring, Retaining . . . . . SP-433

Switch . . . . . ASW-U22

Wiper Assy . . . . . AS-1046-805

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, SINGLE-STEP RESET



Operate Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger and, while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit manually by operating Step-Up Plunger. After Reset Pawl drops into position described above, Step-up Arm should over-ride approximately 1/64 in. before being stopped by Step-Up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# STEPPING UNITS, SINGLE STEP RESET

## FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

## EXPRESSWAY

**Bonus Unit** . . . . . AS-827-444  
 As illustrated, page 103, with  
 Bracket,  
     Support . . . . . P-4640-2  
     Unit Mounting . . . . . P-5052-30  
 Contact Plate (wired) . . . . . W-1072-20  
 Eyelet (3 used) . . . . . M-129-19  
 Grommet (3 used) . . . . . R-111-29  
 Ratchet & Shaft . . . . . C-1050-10  
 Spring, Extension  
     Black . . . . . SP-100-120  
     Green . . . . . SP-100-113  
 Switch,  
     End of Stroke . . . . . ASW-U20  
     Zero,  
         Break . . . . . ASW-U2-24  
         Transfer . . . . . ASW-U3-9  
 Switch Mounting Bracket . . . . . P-126-247  
 Switch Plate,  
     Flat . . . . . P-126-154  
     Spring . . . . . P-137-5  
 Wiper Assy. . . . . AS-1046-629

## SEA RAY

## MARINER

**Bonus Unit** . . . . . AS-827-455  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1072-16  
     Switch,  
         End of Stroke . . . . . ASW-U20  
         Zero . . . . . ASW-U11  
     Wiper Assy. . . . . AS-1046-630

## ODDS & EVENS

**Ball Count Unit** . . . . . AS-827-486  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1043-19  
     Ratchet & Shaft . . . . . C-1050-800  
     Switch,  
         Break . . . . . ASW-U2-12  
         Make . . . . . ASW-U1-9  
         Zero,  
             Make . . . . . ASW-U1  
             Transfer . . . . . ASW-U3-2  
     Wiper Assy. . . . . AS-1046-681

## HI-LO ACE

**Ball Count Unit** . . . . . AS-827-517  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1043-19  
     Ratchet & Shaft . . . . . C-1050-800  
     Switch, Zero,  
         Make . . . . . ASW-U1  
         Transfer . . . . . ASW-U3-2

## CIRCUS

## BIG SHOW

**Bonus Unit** . . . . . AS-827-529  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1072-27  
     Ratchet & Shaft . . . . . C-1050-1901  
     Switch,  
         End of stroke . . . . . ASW-U20  
         Limit . . . . . ASW-U1-11  
         Zero,  
             Break . . . . . ASW-U2-19  
             Build-up (no blade) . . . . . ASW-U0  
     Wiper Assy. . . . . AS-1046-728

## CHAMP

**Bonus Unit** . . . . . AS-827-548  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1072-28  
     Ratchet & Shaft . . . . . C-1050-1547  
     Switch,  
         End of stroke . . . . . ASW-U20  
         Limit . . . . . ASW-U1-11  
         Zero,  
             Break . . . . . ASW-U2-19  
             Build-up (no blade) . . . . . ASW-U0  
     Wiper Assy. . . . . AS-1046-739

## TWIN WIN

**Bonus Unit** . . . . . AS-827-552  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1072-32  
     Ratchet & Shaft . . . . . C-1050-1000  
     Switch, Zero  
         Break . . . . . ASW-U2-19  
         Build-up (no blade) . . . . . ASW-U0  
     Wiper Assy. . . . . AS-1046-704

## SKY KINGS

**Ball Count Unit** . . . . . AS-827-568  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1043-24  
     Ratchet & Shaft . . . . . C-1050-800  
     Spring, Extension (2 used) . . . . . SP-100-120  
     Switch,  
         End of stroke . . . . . ASW-U20  
         Zero,  
             Make . . . . . ASW-U1  
             Transfer . . . . . ASW-U3-2  
     Wiper Assy. . . . . AS-1046-756  
**Bonus Unit** . . . . . AS-827-569  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1079-39  
     Ratchet & Shaft . . . . . C-1050-1547  
     Switch,  
         End of stroke . . . . . ASW-U20  
         Limit . . . . . ASW-U1-11  
         Zero,  
             Break . . . . . ASW-U2-19  
             Build-up (no blade) . . . . . ASW-U0  
     Wiper Assy. . . . . AS-1046-739

## AMIGO

**Bonus Unit** . . . . . AS-827-559  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1072-33  
     Ratchet & Shaft . . . . . C-1050-19  
     Switch,  
         End of stroke . . . . . ASW-U20  
         Zero,  
             Break . . . . . ASW-U2-19  
             Build-up (no blade) . . . . . ASW-U0  
     Wiper Assy. . . . . AS-1046-728

## DELTA QUEEN

**Ball Count Unit** . . . . . AS-827-561  
 Same as **Bonus Unit**, EXPRESSWAY,  
 except  
     Contact Plate (wired) . . . . . W-1043-19  
     Ratchet & Shaft . . . . . C-1050-800  
     Switch,  
         Make . . . . . ASW-U1-27  
         Zero,  
             Make . . . . . ASW-U1  
             Transfer . . . . . ASW-U3-2  
     Wiper Assy. . . . . AS-1046-681

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 ON  
 NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# STEPPING UNITS, SINGLE STEP RESET

## ROGO

**Bonus Unit** ..... AS-827-570  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-38  
Ratchet & Shaft ..... C-1050-2002  
Switch,  
End of Stroke ..... ASW-U20  
Limit ..... ASW-U1-11  
Zero,  
Break ..... ASW-U2-19  
Build-up (no blade) ..... ASW-U0  
Wiper Assy. .... AS-1046-753

## BON VOYAGE

**Ball Count Unit**  
Same as in DELTA QUEEN,  
page 104

## BOOMERANG

## FLICKER

**Bonus Unit** ..... AS-827-578  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-40  
Ratchet & Shaft ..... C-1050-1547  
Switch  
Same as in ROGO, above  
Wiper Assy. .... AS-1046-739

## AIR ACES

**Bonus Unit** ..... AS-827-583  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-41  
Ratchet & Shaft ..... C-1050-2000  
Switch,  
End of Stroke ..... ASW-U20  
Zero,  
Break ..... ASW-U2-19  
Build-up (no blade) ..... ASW-U0

## KNOCKOUT

**Bonus Unit** ..... AS-827-593  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-44  
Ratchet & Shaft ..... C-1050-1549  
Switch,  
End of stroke ..... ASW-U20  
Limit (Make),  
With Lifter ..... ASW-U1-10  
Without Lifter ..... ASW-U1-11  
Zero,  
Break ..... ASW-U2-19  
Build-up (no blade) ..... ASW-U0  
Wiper Assy. .... AS-1046-780

## WIZARD

**Bonus Unit** ..... AS-827-598  
Same as **Bonus Unit**, EXPRESSWAY,  
Page 104, except  
Contact Plate (wired) ..... W-1072-45  
Ratchet & Shaft ..... C-1050-1903  
Switch,  
Same as in KNOCKOUT, column 1  
Wiper Assy. .... AS-1046-784

## HI-DEAL

**Ball Count Unit**  
Same as in DELTA QUEEN,  
page 104  
**Bonus Unit** ..... AS-827-612  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-49  
Ratchet & Shaft ..... C-1050-1549  
Switch,  
End of stroke ..... ASW-U1-14  
Limit (Make),  
With Lifter ..... ASW-U1-10  
Without Lifter ..... ASW-U1-11  
Zero,  
Break ..... ASW-U2-19  
Transfer ..... ASW-U3-2  
Wiper Assy. .... AS-1046-799

## BOW AND ARROW

**Bonus Unit** ..... AS-827-610  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-47  
Ratchet & Shaft ..... C-1059-1046  
Switch,  
Limit (Make),  
With 1/4 in. Lifter ..... ASW-U1-10  
With 5/16 in. Lifter ..... ASW-U1-4  
Without Lifter ..... ASW-U1-11  
Zero,  
Break ..... ASW-U2-19  
Transfer ..... ASW-U3-2  
Wiper Assy. .... AS-1046-794

## FLIP FLOP

**Bonus Unit** ..... AS-827-603  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-46  
Ratchet & Shaft ..... C-1050-1903  
Switch,  
End of Stroke ..... ASW-U20  
Limit,  
Make ..... ASW-U1-4  
Transfer ..... ASW-U3-4  
Zero,  
Break ..... ASW-U2-19  
Build-up (no blade) ..... ASW-U0  
Wiper Assy. .... AS-1046-790

## HOKUS POKUS

**Bonus Unit** ..... AS-827-615  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-50  
Ratchet & Shaft ..... C-1050-1500  
Switch, Zero,  
Break ..... ASW-U2-19  
Transfer ..... ASW-U3-2  
Wiper Assy. .... AS-1046-800

## OLD CHICAGO

**Bonus Unit** ..... AS-827-621  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Contact Plate (wired) ..... W-1072-47  
Ratchet & Shaft ..... C-1050-1044  
Switch,  
Limit,  
Make ..... ASW-U1-4  
Transfer ..... ASW-U3-4  
Zero,  
Break ..... ASW-U2-19  
Transfer ..... ASW-U3-2  
Wiper Assy. .... AS-1046-794

## CAPT. FANTASTIC

**Bonus Unit** ..... AS-827-628  
Same as **Bonus Unit**, EXPRESSWAY,  
page 104, except  
Coil, Reset ..... CD-29-1600  
Contact Plate (wired) ..... W-1072-50  
Ratchet & Shaft ..... C-1050-1500  
Switch,  
Make ..... ASW-U1-14  
Zero,  
Break ..... ASW-U2-19  
Transfer ..... ASW-U3-2  
Wiper Assy. .... AS-1046-800

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME



# FLASHER UNITS

Assys. listed at right are identical, except for differences noted in listing on page 108

- ① Lockscrew . . . . . LS-1032-6-511
- ② Washer, Steel . . . . . P-800-6
- ③ Spring, Compression . . . . . SP-230
- ④ Cup Washer . . . . . P-2293
- ⑤ Washer, Nylon . . . . . P-801-357
- ⑥ Washer, Bakelite . . . . . P-801-167
- ⑦ Wiper Assy. . . . . AS-1046-642
- ⑧ Washer, Leather . . . . . P-801-379
- ⑨ Key Washer . . . . . P-163-30
- ⑩ Same as item 5

## SKYROCKET

Skyrocket Unit . . . . . AS-1889-5

## FOUR MILLION B.C.

Volcano Unit . . . . . AS-1889-6

## FIREBALL

Odin Bonus Unit . . . . . AS-1889-6

## SPACE TIME

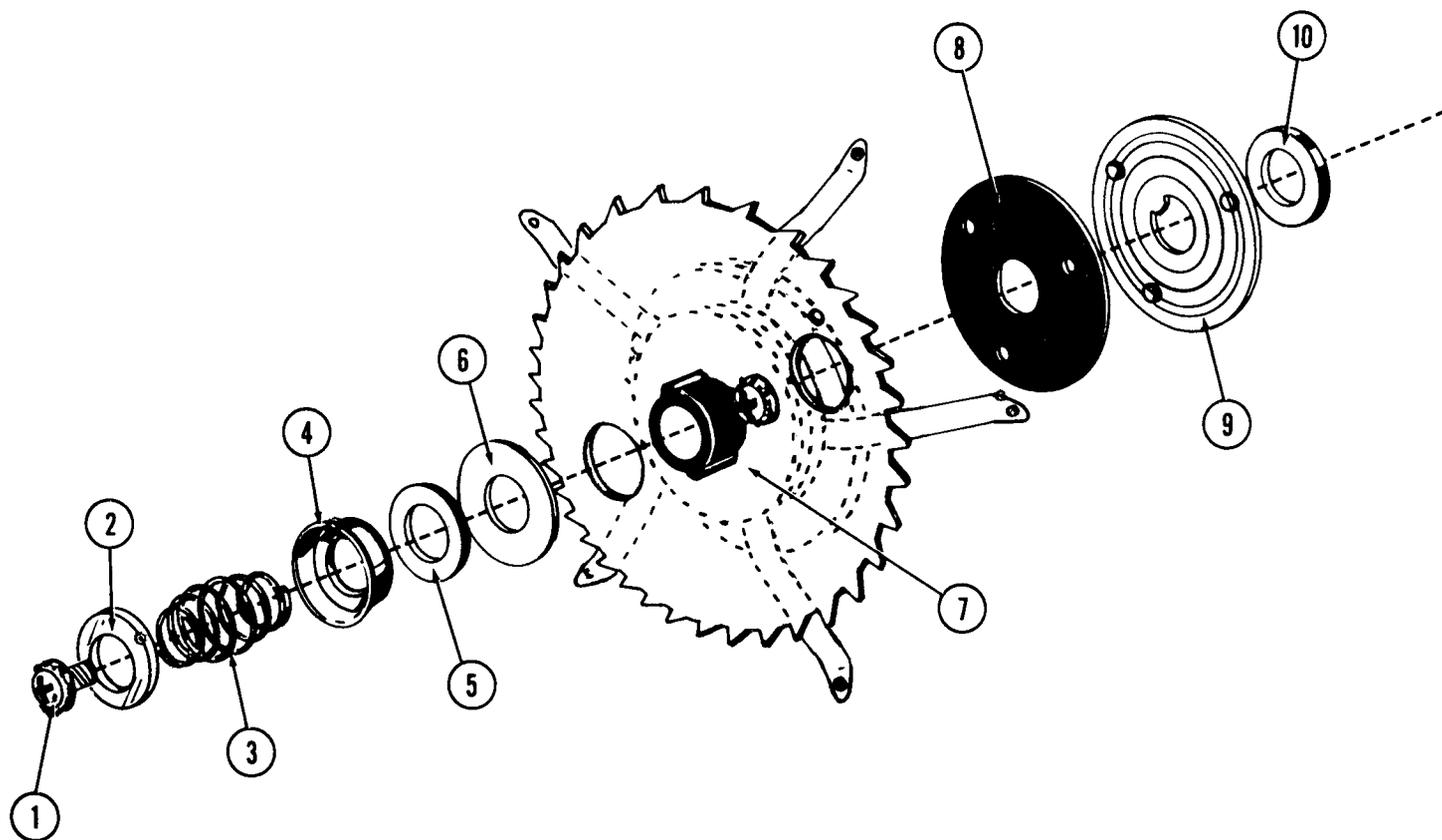
Flasher Target Unit . . . . . AS-1889-6

## TIME ZONE

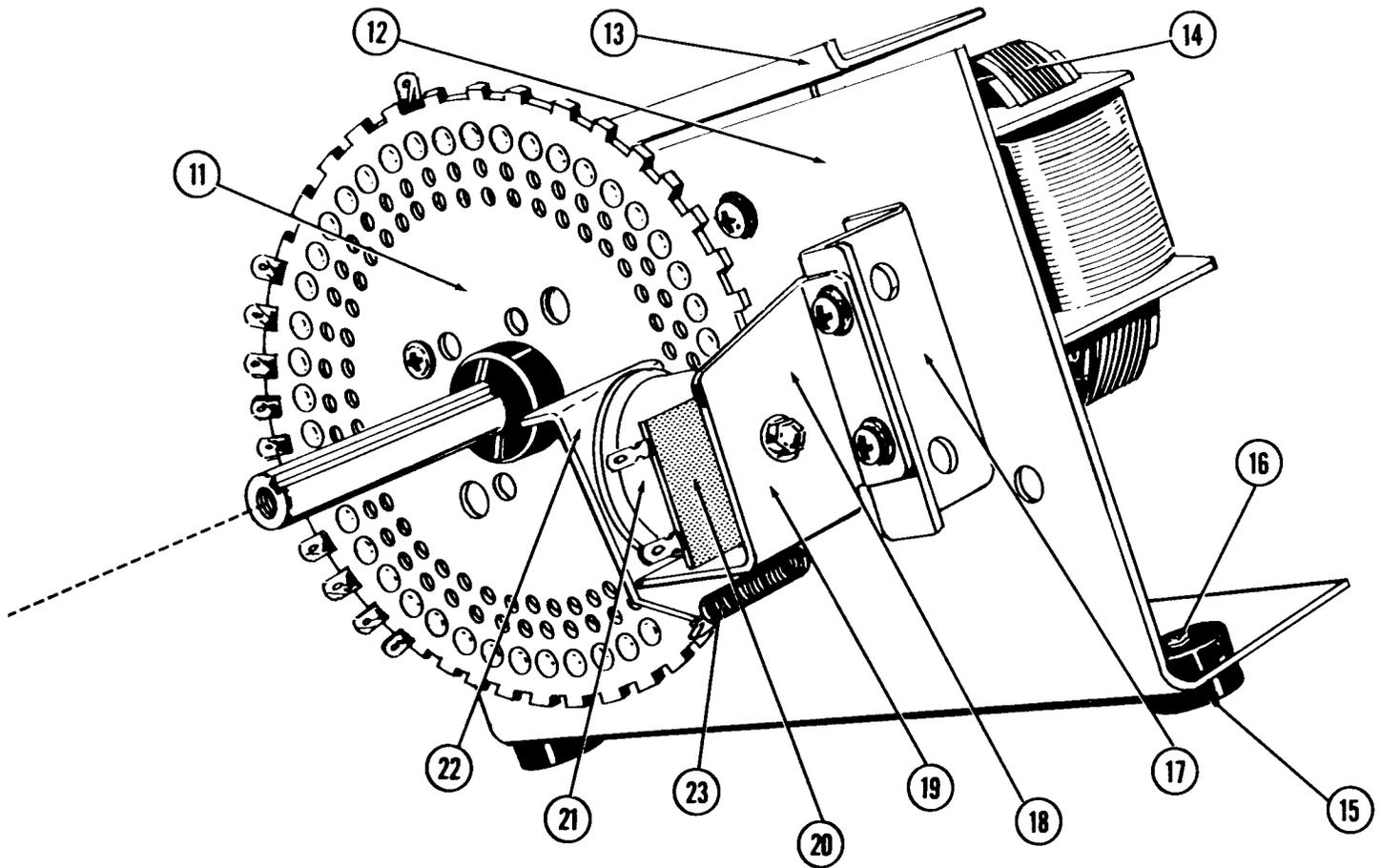
Flasher Target Unit . . . . . AS-1889-6

## BOW AND ARROW

Flash Motor Unit . . . . . AS-1889-9



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



- RESISTOR** (not shown)  
 IN AS-1889-5 . . . . . NOT USED  
 IN AS-1889-6 . . . . . NOT USED  
 IN-AS-1889-9 . . . . . E-115-147
- 11 Contact Plate (wired)  
 IN AS-1889-5 . . . . . W-1072-18  
 IN AS-1889-6 . . . . . W-1072-19  
 IN AS-1889-9 . . . . . W-1072-48
- 12 Mounting Bracket Assy. . . . . A-3465
- 13 Motor Shield  
 IN AS-1889-5 . . . . . NOT USED  
 IN AS-1889-6 . . . . . P-7681-1  
 IN AS-1889-9 . . . . . NOT USED
- 14 Motor  
 IN AS-1889-5 . . . . . E-119-410  
 IN AS-1889-6 . . . . . E-119-410  
 IN AS-1889-9 . . . . . E-119-463
- 15 Grommet (3 used) . . . . . R-111-7
- 16 Shoulder Bushing (3 used) . . . . . S-156-486
- 17 Magnet Frame Support . . . . . P-7637-3

- 18 Latch Magnet Assy. . . . . AS-2517-3
- 19 Magnet Frame Assy. . . . . A-3324
- 20 Insulator . . . . . P-150-95
- 21 Coil . . . . . FC-32-2100
- 22 Armature Latch . . . . . P-7207-4
- 23 Spring, Extension . . . . . SP-100-294

**FASTENERS**

Order screws, washers  
 by name or description  
 with reference to

- (a) Name of game,
- (b) Assy. No.,
- (c) Part which fastener secures

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SPINNER UNIT

SPINNER GATE ASSY.  
See Playfield Charts

# RACE UNIT

RACE LAP COUNTERS  
See page 112

## CHAMP

### SKY KINGS

Spinner Unit . . . . . AS-1900-157

Same as Score Counter Unit,  
page 111, excepting

Base Plate Assy. . . . . A-2214-24

#### FASTENERS

Order by name or description,  
specifying AS-1900-157  
and part fastener screws

#### Hair Pin

(1 used) . . . . . M-254

(2 used) . . . . . M-254-1

Reel Lock . . . . . NOT USED

Retaining Ring . . . . . NOT USED

Spring, Torsion . . . . . NOT USED

Stop Plate . . . . . P-5222-1

#### ONLY SWITCH USED IS

Switch . . . . . ASW-M-100-2

## BON VOYAGE

Spinner Unit . . . . . AS-1900-172

Same as Spinner Unit, CHAMP,  
excepting

#### Contact Plate (wired)

Attached to Base Plate . . . W-999-33

Opposite W-999-33 . . . . W-999-34

FASTENERS: refer to AS-1900-172

Switch . . . . . NOT USED

Switch Plate . . . . . NOT USED

#### Wiper Assy.

Used with W-999-33 . . . . A-1618-3

Used with W-999-34 . . . . A-1618-4

## BOOMERANG

## FLICKER

## BOW AND ARROW

Spinner Unit . . . . . AS-1900-157

Same as Spinner Unit, CHAMP

## OLD CHICAGO

Spinner Unit . . . . . AS-1900-180

Same as Spinner Unit, BON VOYAGE,  
excepting

#### Contact Plate (wired)

Attached to Base Plate . . . W-999-37

Opposite W-999-37 . . . . W-999-38

#### Wiper Assy.,

Used with W-999-37 . . . . AS-1618-3

Used with W-999-38 . . . . AS-1618-4

## TWIN WIN

#### Car Race Unit

YELLOW CAR . . . . . AS-1900-158

Same as Score Counter Unit, page 111

excepting

#### FASTENERS

Order by name or description,  
specifying AS-1900-158  
and part fastener secures

#### Hair Pin

(1 used) . . . . . M-254

(2 used) . . . . . M-254-1

Stop Plate . . . . . P-5222-1

#### ONLY SWITCHES USED ARE

#### Switch,

Upper . . . . . ASW-M300-2

Lower . . . . . ASW-A20-7

#### Switch Plate

With ASW-A20-7 . . . . . P-137-5

With ASW-M-300-2 . . . . P-137-13

#### GREEN CAR

Same as YELLOW CAR

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# COUNTING COMPONENTS

**Car-Race Laps Counter** ..... 112

**Replay Counters** ..... 113-115

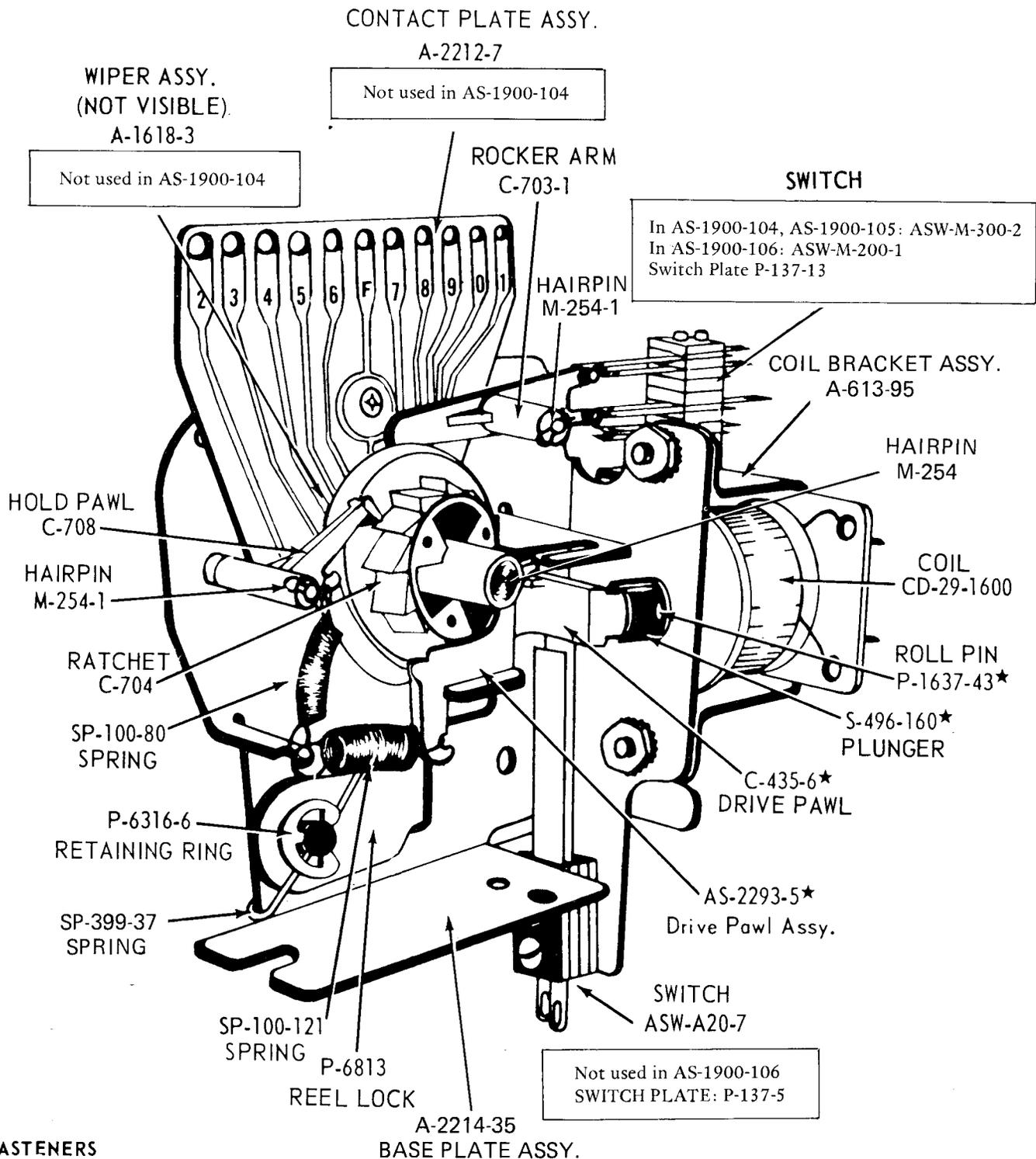
**Score Counters** ..... 111-112

**TOTAL PLAY COUNTER (“METER”): E-130-10**

COUNTING

# SNAP-OUT SCORE COUNTER UNITS

SEE NOTE A, B



Order fasteners (nuts, screws, washers, etc.) by name or description with reference to (a) name of part which fastener secures, (b) Score Counter, (c) name of game.

★Starred components of AS-2293-5  
May be purchased separately.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SCORE COUNTER NOTES

## NOTE A

Score Counter Units are illustrated, page 165, without Number Wheel. However, Number Wheel listed below is included in each complete

Score Counter Unit.

Black numerals on white,  
3 in. dia. . . . . C-720-508

## NOTE B

5TH DIGIT COUNTER  
Dummy Wheel P-7331

## NOTE B

(CONTINUED FROM COLUMN 1)

### OLD CHICAGO and CAPT. FANTASTIC

Same as in MONTE CARLO,  
column 1, except  
10000-90000 . . . . . AS-1900-184  
Same as AS-1900-149, MONTE CARLO,  
except  
Switch, End of stroke . . . . ASW-A11-8

# CAR-RACE LAPS COUNTER

**YELLOW PLAYER**  
First Digit. . . . . AS-1900-105  
Second Digit . . . . AS-1900-106  
As illustrated, page 111

**GREEN PLAYER**  
Same as YELLOW PLAYER

### SKYROCKET through\* SPACE TIME

00-90 . . . . . AS-1900-105  
100-900 . . . . . AS-1900-104  
1000-9000 . . . . . AS-1900-105  
10000-90000 . . . . . AS-1900-106  
As illustrated, page 111

### MONTE CARLO and ODDS & EVENS

Same as in SKYROCKET, above,  
except  
10000-90000 . . . . . AS-1900-149  
Same as AS-1900-106, SKYROCKET  
except  
Switch . . . . . ASW-M300-2

### TIME ZONE and\* NIP-IT

Same as in SKYROCKET, above

### HI-LO ACET through\* CHAMP

Same as in MONTE CARLO, above

### TWIN WIN

Same as in SKYROCKET, above

### SKY KINGS through\* FLICKER

Same as in MONTE CARLO, above

### AIR ACES

Same as in SKYROCKET, above

### KNOCKOUT and WIZARD

Same as in MONTE CARLO, above

### HI-DEAL

Same as in MONTE CARLO, above,  
except  
10000-90000 . . . . . AS-1900-179  
Same as AS-1900-149, MONTE CARLO,  
except  
Switch (ADDED)  
End of stroke (Make) . . . . ASW-A10-43

### BOW AND ARROW through\* HOKUS POKUS

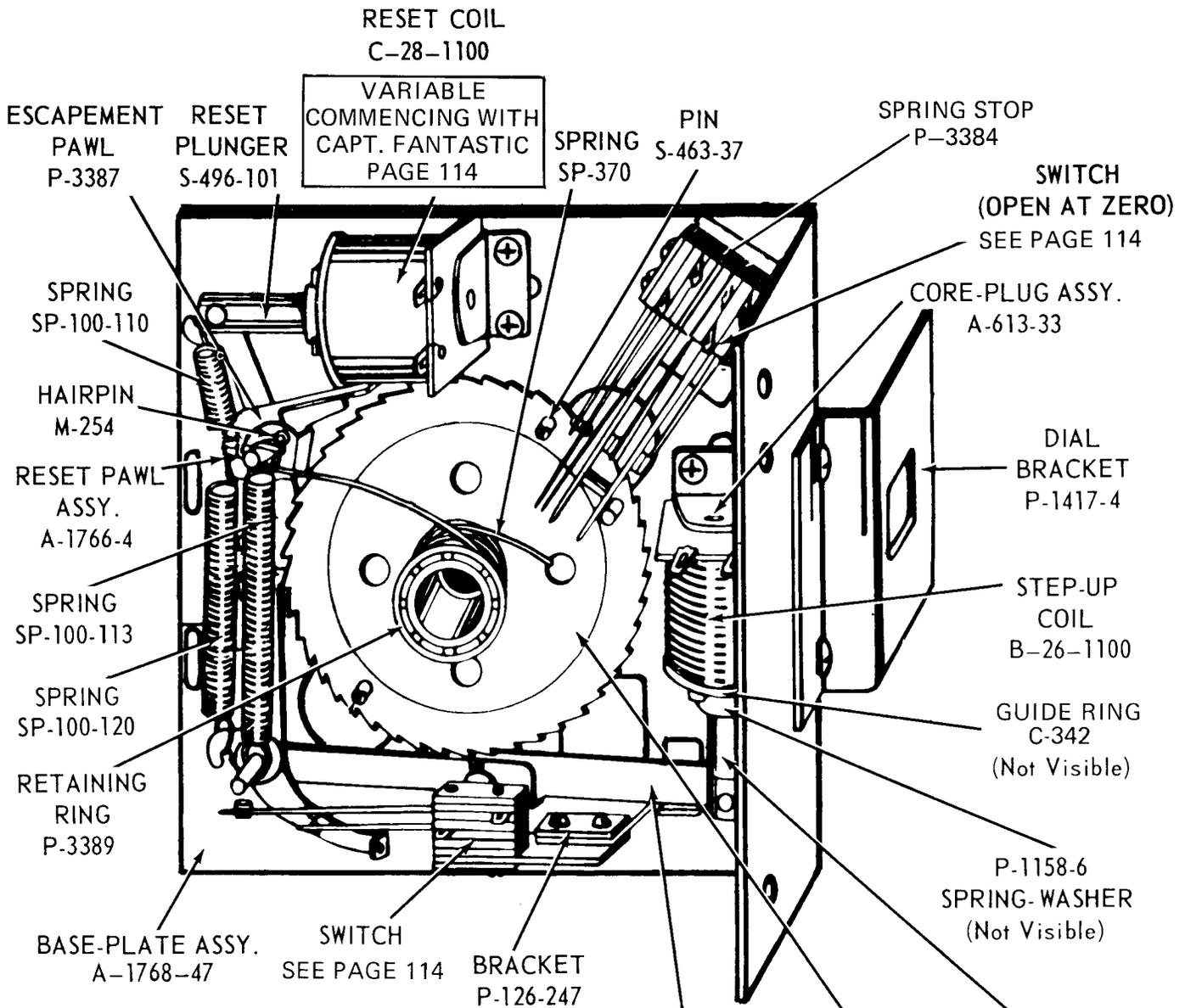
Same as in MONTE CARLO, above

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# REPLAY COUNTER

SEE NOTES A, B



Operate Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger and, while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit manually by operating Step-Up Plunger. After Reset Pawl drops into position described above, Step-Up Arm should override approximately 1/64 in. before being stopped by Step-up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase override to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

Washer, Large . . . . . P-801-107

### SCREWS

Order screws by name or description with reference to (a) name of game, (b) Replay Counter, (c) part screw secures.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# REPLAY COUNTER NOTES

## NOTE A

Replay Counter Assy. is illustrated without Number Wheel. Complete Replay Counter includes Number Wheel & Hub Assy. AS-1565, illustrated page 115.

## NOTE B

### SKYROCKET through\*

**MONTE CARLO** . . . . . AS-797-183  
As illustrated, page 113, with  
Plunger, Step-up . . . . . S-496-100  
Switch,  
Limit (Break) . . . . . ASW-U2-5  
Step-up Arm (Make) . . . . . ASW-U1-14  
Zero,  
Break . . . . . ASW-U2  
Spacer (no blade) . . . . . ASW-U0  
Switch Mounting Plate . . . . . P-126-247  
Switch Plate,  
Flat . . . . . P-126-154  
Spring . . . . . P-137-5

### ODDS & EVENS . . . . . AS-797-231

Same as in SKYROCKET, above,  
except  
Switch,  
Step-up Arm (Make) . . . . . ASW-U1-9  
Zero,  
Break . . . . . ASW-U2-12  
Break-Break . . . . . ASW-U22

### TIME ZONE, NIP-IT

Same as in SKYROCKET, above

### HI-LO ACE . . . . . AS-797-265

Same as in SKYROCKET, above,  
except  
Switch, Zero  
(Break-Break) . . . . . ASW-U22

### CIRCUS, BIG SHOW

Same as in SKYROCKET, above

### CHAMP . . . . . AS-707-282

Same as in SKYROCKET, above,  
except  
Switch, Step-up Arm  
(Make-Break) . . . . . ASW-U-12

### TWIN WIN . . . . . AS-797-285

Same as in SKYROCKET, above,  
except  
Switch,  
End of Stroke (Break) . . . . . ASW-U2-12  
Step-up Arm (Make) . . . . . ASW-U1-9

### SKY KINGS . . . . . AS-797-295

Same as in SKYROCKET, above,  
except only Switches used are  
Switch,  
Break . . . . . ASW-U2-5  
Break-Break . . . . . ASW-U22  
Make-Break . . . . . ASW-U12

## REPLAY BUTTON

Button Assy. . . . . A-1729-17  
Button Guide . . . . . P-2768-26  
Retaining Ring . . . . . P-2891-7  
Switch  
SKYROCKET through\*  
MARINER . . . . . ASW-A10-4  
FIREBALL, later games\* . . . . . ASW-A10-19  
Switch Plate,  
Flat . . . . . P-126-155  
Spring . . . . . P-137-5  
Switch Protector Bracket  
SKYROCKET through\*  
MARINER . . . . . P-6366-1  
FIREBALL, later games\* . . . . . P-7716  
Spacer  
SKYROCKET through\*  
MARINER . . . . . NOT USED  
FIREBALL, later games\* . . . . . S-231-791  
Washer  
SKYROCKET through\*  
MARINER . . . . . P-800-2  
FIREBALL, later games\* . . . . . NOT USED

## NOTE B

(CONTINUED FROM COLUMN 1)

### AMIGO

Same as in SKYROCKET, column 1

### DELTA QUEEN through\* BON VOYAGE

Same as in HI-LO ACE, column 1

### BOOMERANG through\* AIR ACES

Same as in SKY KINGS, column 1

### KNOCKOUT, WIZARD

Same as in HI-LO ACE, column 1

### HI-DEAL through\*

### HOKUS POKUS\* . . . . . AS-797-353

Same as in SKYROCKET, column 1,  
except  
Plunger Assy., Step-up . . . . . AS-1366-4  
Plunger . . . . . S-496-141  
Washer,  
Large (10 used) . . . . . P-801-172  
Snap . . . . . P-448-6

Only switches used are

Switch,  
Break . . . . . ASW-U2-5  
Break-Break . . . . . ASW-U22  
Make . . . . . ASW-U1-14

## NOTE B

(CONTINUED FROM COLUMN 2)

### OLD CHICAGO . . . . . AS-797-384

Same as in SKYROCKET, column 1,  
except  
Plunger Assy., Step-up . . . . . AS-1366-4  
Same as in HI-DEAL, column 2  
Spring, Extension . . . . . SP-100-120  
(SP-200-113 NOT USED)  
Switch  
Same as in HI-DEAL, column 2

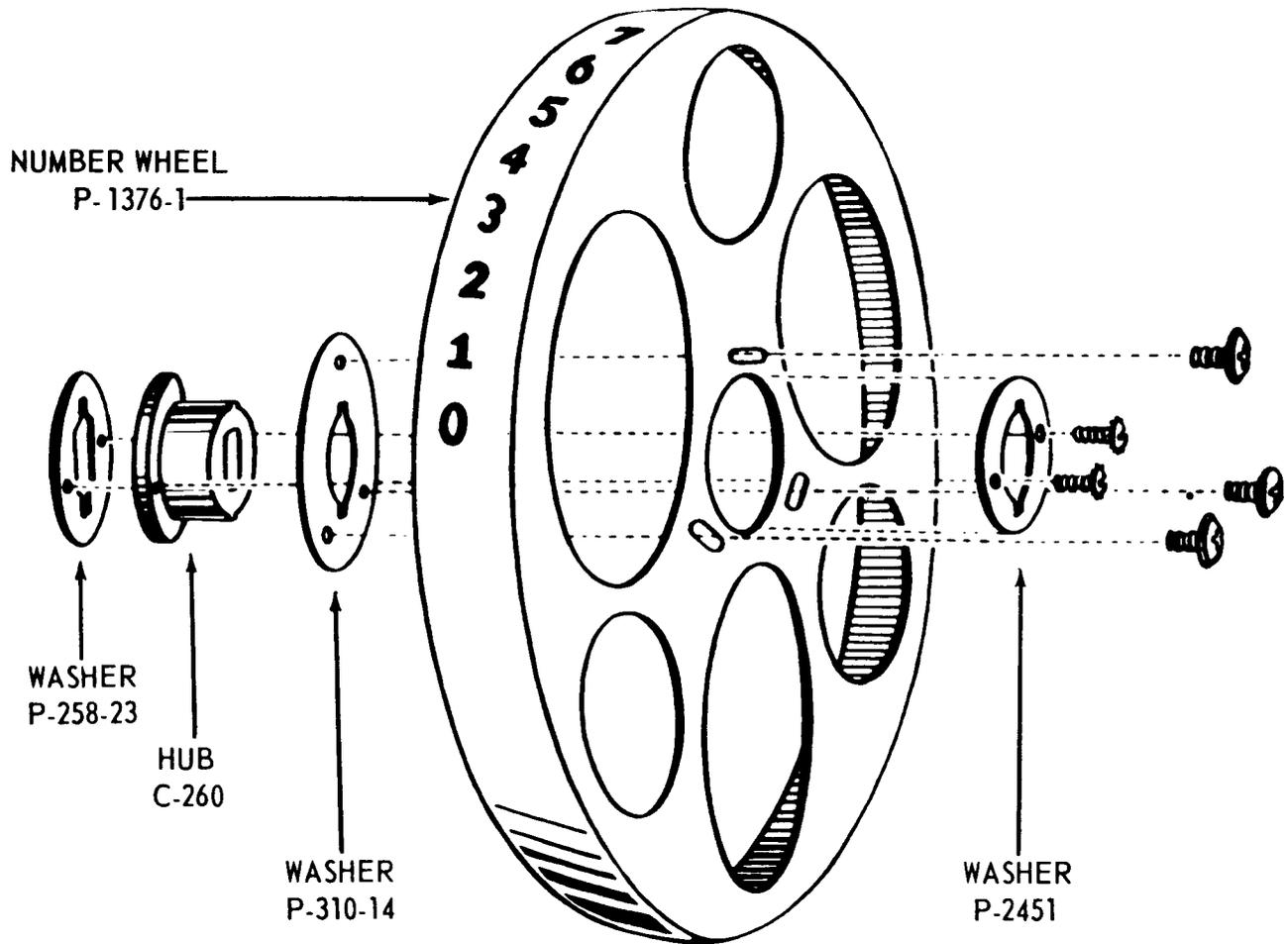
### CAPT. FANTASTIC . . . . . AS-797-383

Same as in SKYROCKET, column 1,  
except  
Coil, Reset . . . . . CD-29-1500  
Plunger Assy., Step-up . . . . . AS-1366-4  
Same as in HI-DEAL, column 2  
Switch  
Same as in HI-DEAL, column 2

\*See Chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# NUMBER-WHEEL & HUB ASSY. AS-1565



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

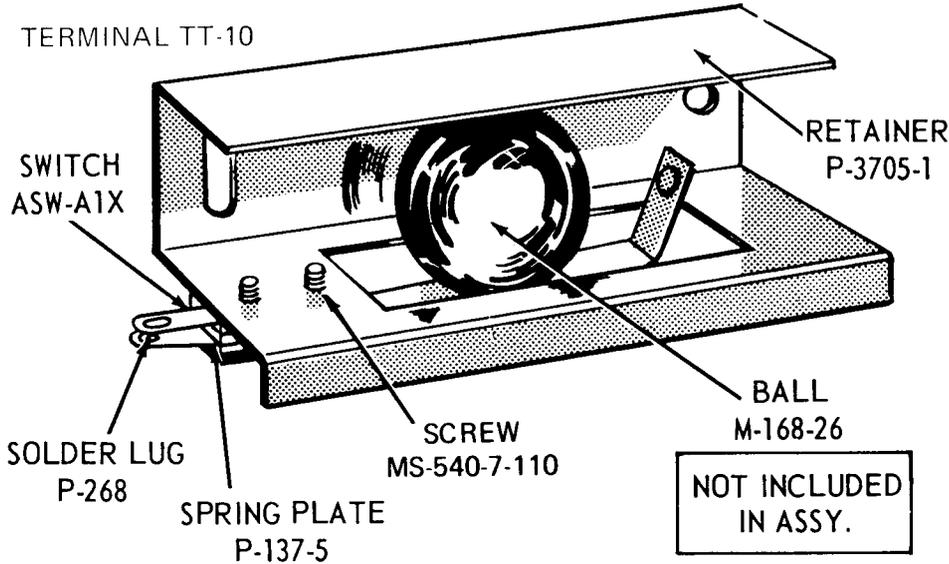
# ANTI-TILT COMPONENTS

ANTI-TILT



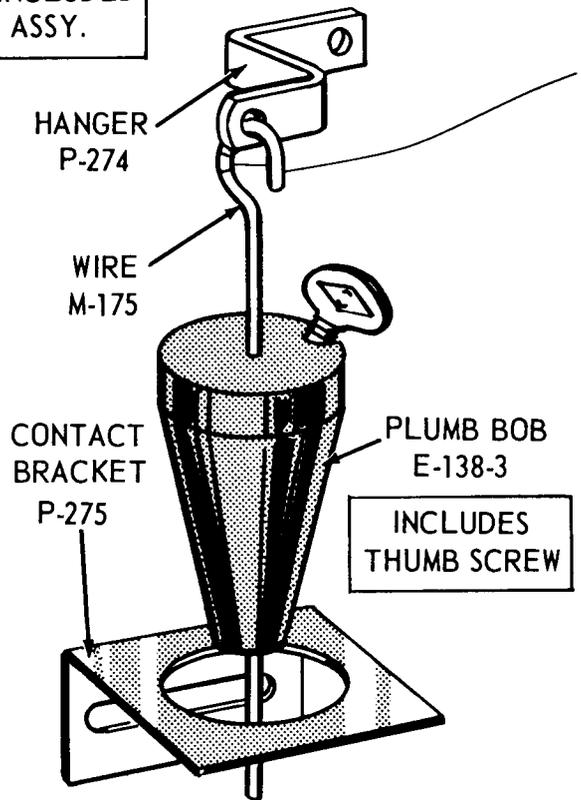
# ANTI-TILT COMPONENTS **Front Cabinet**

TERMINAL TT-10



## BALL TILT ASSYS.

SKYROCKET through* SEA RAY	AS-1588-1
AS illustrated above	
MARINER through* HOKUS POKUS	AS-1588-4
Same as AS-1588-1, above, except	
Ball (not included in Assy.)	M-168-50
Plate, Flat (Added)	P-126-154
Retainer (7-7/8 in. long)	P-7791
Switch	ASW-AO-5
Switch Screw (2)	MSSR-00540-1106
Terminal	P-8000-910
OLD CHICAGO, later games*	AS-1588-5
Same as AS-1588-4, above, except	
Terminal	NOT USED



## PLUMB BOB

SKYROCKET through\* SEA RAY

As illustrated above

MARINER, later games\*

Similar to illustration above, excepting

Contact Bracket	P-7750
Hanger	P-7783

## SLAM SWITCH ASSY.

HI-DEAL, later games\*

Slam Switch & Bracket Assy.	AS-982-1053
Bracket	P-126-408
Switch	ASW-A20-26
Switch Plate	P-137-5
Switch Screw (2)	MSSR-00540-1107

CONTINUED  
ON  
NEXT PAGE

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ANTI-TILT COMPONENTS

## Front Door

### SKYROCKET through\* MARINER

Tilt Switch & Bracket Assy. ....	AS-982-762
Bracket .....	P-126-185
Insulator .....	P-150-77
Plate .....	P-126-154
Switch .....	ASW-A20
Switch Plate,	
Flat .....	P-126-473
Spring .....	P-137-5
Switch Screw (2) .....	MSSR-00540-1114

### FIREBALL through\* WIZARD

#### MOUNTED DIRECTLY ON DOOR

Switch,	
Divider .....	ASW-A0-10
Tilt (Make) .....	ASW-A1-99
Switch Guard .....	P-126-678
Switch Plate,	
Flat .....	P-126-153
Spring .....	P-137-5
Switch Screw (2) .....	SFPR-00832-1110

### HI-DEAL, later games\*

Tilt Switch & Bracket Assy. ....	AS-982-1065
Bracket .....	P-126-29
Plate .....	P-126-154
Switch .....	ASW-A20-26
Switch Plate, Spring .....	P-137-5
Switch Screw (2) .....	MSSR-00540-1107

# Mounting Board

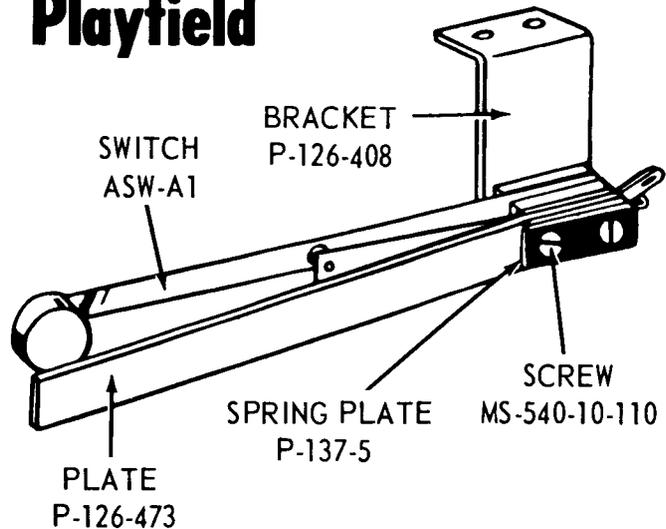
### SKYROCKET through\* EL TORO

Tilt Switch & Bracket Assy. ....	AS-982-258
Back-up Plate .....	P-126-473
Bracket .....	P-126-29
Insulator .....	P-150-77
Screw, Parker Kalon, Round Head,	
Sheet Metal, Type Z (2) .....	No. 4 x 7/8 in.
Switch .....	ASW-A20
Switch Plate .....	P-137-5

### LITTLE JOE, later games\*

Tilt Switch & Bracket Assy. ....	AS-982-941
Bracket .....	P-126-29
Switch .....	ASW-A1-25
Switch Plate,	
Flat .....	P-126-154
Spring .....	P-137-5
Switch Screw (2) .....	MSSR-00540-1108

# Playfield



TILT-SWITCH & BRACKET ASSY.  
AS-982-460

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# **SOUND COMPONENTS**

**Bell: see page 93**

**Chime Assy. ....122**

**Gong Assys. ....123**

**Horn Assy .....123**

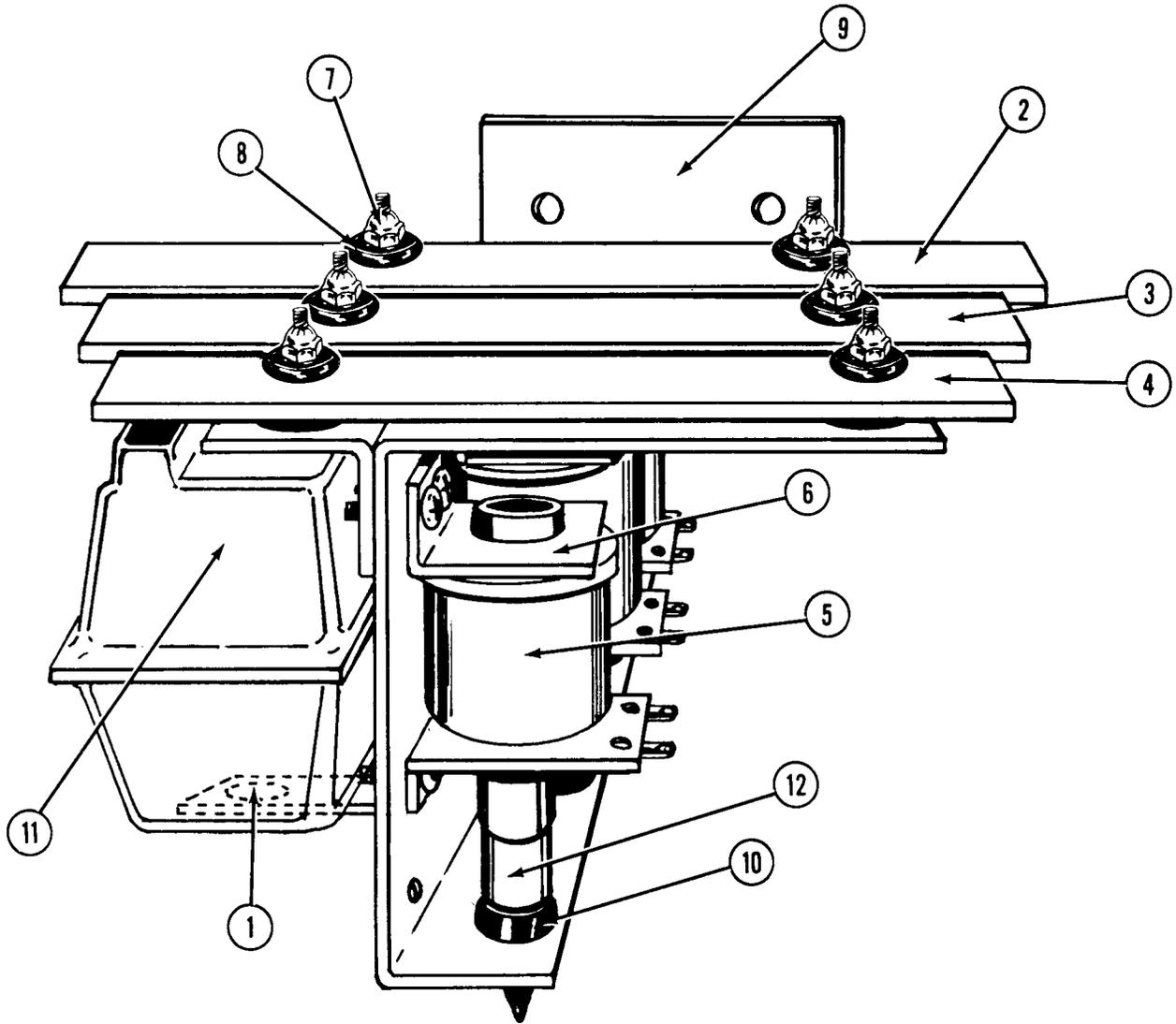
**Knocker Assy. .... 123**

**Sounder Assys. .... 123**



# SOUND COMPONENTS

## CHIME ASSY. AS-2564



- |  |   |
|--|---|
| ① Canoe Clip (2 used) . . . . . M-1538     | ⑦ Elastic Stop Nut (6 used) . . M-319-6   |
| ② Chime Bar, Large . . . . . P-7341        | ⑧ Grommet (6 used) . . . . . R-111-39     |
| ③ Medium . . . . . P-7340                  | ⑨ Mounting Bracket Assy . . . . A-3293    |
| ④ Small . . . . . P-7339                   | ⑩ Plug Bumper (3 used) . . . . . R-231-14 |
| ⑤ Coil (3 used) . . . . . CC-31-2000       | ⑪ Sound Box . . . . . C-881               |
| ⑥ Coil Bracket (6 used) . . . . . P-108-53 | ⑫ Striker & Bushing Assy . . . . A-550-6  |
- EACH BRACKET SECURED TO MOUNTING BRACKET BY 2 SCREW, PARKER KALON, SWAGE FORM . . . . . No. 8-32 x 3/8 in.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SOUND COMPONENTS GONG ASSYS.

GONG ASSY. AS-385-8

BELL P-748-5  
SECURED BY  
NUT N-1032-1110  
NO. 10 LOCKWASHER  
PLAIN WASHER PW-10  
LARGE WASHER P-801-15

BRACKET ASSY.  
A-166-6

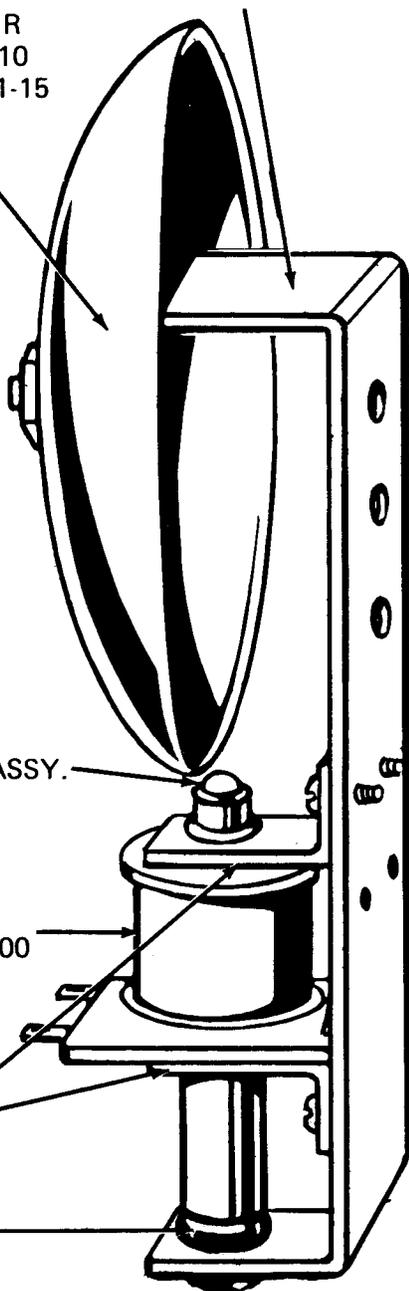
COIL BRACKET  
SECURED BY  
LOCKSCREW  
LS-632-4-510

PLUNGER & RIVET ASSY.  
A-316-22

COIL  
CB-31-2000

COIL BRACKET  
P-108-42

GROMMET R-111-31



# HORN ASSY.

HORN ASSY. AS-2854-1

Bracket ..... P-126-726  
Connector, Male ..... E-140-2  
Horn, 6V., A.C. .... M-1795  
Screw ..... LSPR-832-1103

# KNOCKER ASSY.

KNOCKER ASSY. AS-2404-7

Similar to Kickback Assy.  
page 183 with

Coil ..... A-27-1300  
Coil Bracket ..... P-108-53  
SECURED TO KICKER FRAME  
BY 2 SCREW ..... SFPR-00832-110-  
Kicker Frame ..... P-7378-1  
Plug Bumper ..... R-231-11  
Plunger & Striker Assy. .... A-550-5

# SOUNDER ASSY.

SOUNDER ASSY. AS-731-9

NUT N-832-1110  
NO. 8 SPLIT LOCKWASHER

SCREW  
MS-832-10-120

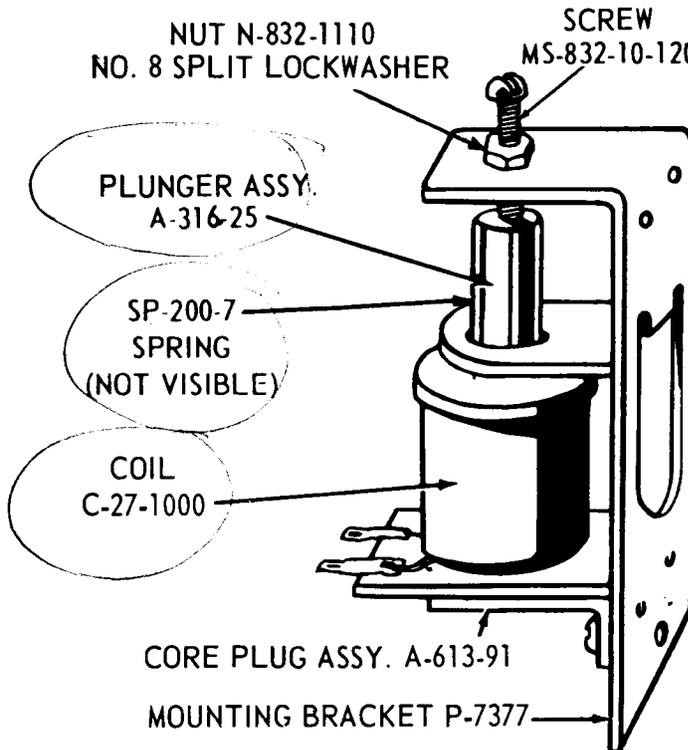
PLUNGER ASSY.  
A-316-25

SP-200-7  
SPRING  
(NOT VISIBLE)

COIL  
C-27-1000

CORE PLUG ASSY. A-613-91

MOUNTING BRACKET P-7377



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# PLAYFIELD PANEL CHARTS

Miscellaneous Playfield Components are shown on Playfield Charts in the following pages.

As new games are introduced, additional Charts will be supplied by means of Supplements.

Playfield components are detailed in Playfield section, commencing on page 156.

## IMPORTANT

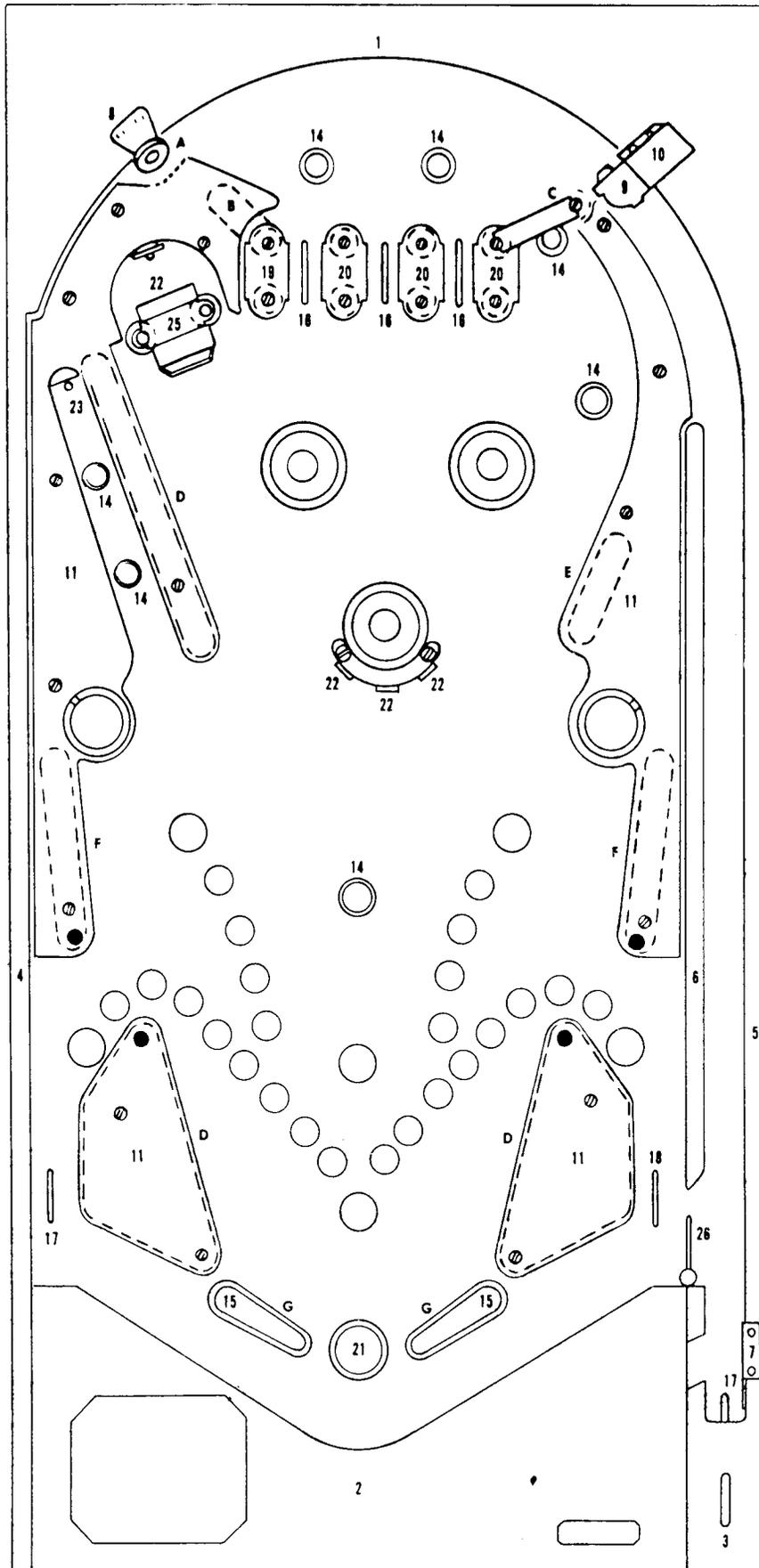
Note that in addition to showing Playfield components, most Charts also serve as a convenient index to important internal parts. For example, the following is quoted from SPACE TIME Chart, page 132.

15 Bumper Cap ..... C-719-16  
Details of Bumper Assys.,  
page 167

\*See chronological list of games, page 6.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SKYROCKET Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-2, 1½ in.
- C R-243, 5/16 in. (11)
- D R-521-6, 3½ in. (3)
- E R-521-3, 2 in.
- F R-521-4, 2½ in. (2)
- G R-406-3 (Flipper) (2)

## OTHER PARTS

- 1 Top Arch ..... P-5839-58
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, Left ..... CA-1208-2
- 5 Side Rail, Right ..... CA-1208-1
- 6 Inner Rail ..... CA-1208-9
- 7 Protective Angle ..... P-7839
- 8 Ball Rebound ..... AS-493-3
  - Bracket ..... P-318-3
  - Bushing ..... S-231-99
  - Nut ..... N-1024-1111
  - Rubber Ring ..... R-115-4
  - Screw, Hexagon Head... No. 10-24 x 3/4 in.
  - Washer ..... P-1901
- 9 Ball Gate ..... A-1475-1
- 10 Ball Gate Cover ..... P-2996-5
- 11 Light Shields ..... A-2890-69
- 12 Bumper Cap, Red ..... C-719-12
- 13 Bumper Cap, Blue ..... C-719-16
  - Thumper Bumper Assy., page 167
- 14 Rollover Button ..... C-387-5

## PARTS RELATED TO ROLLOVER BUTTON

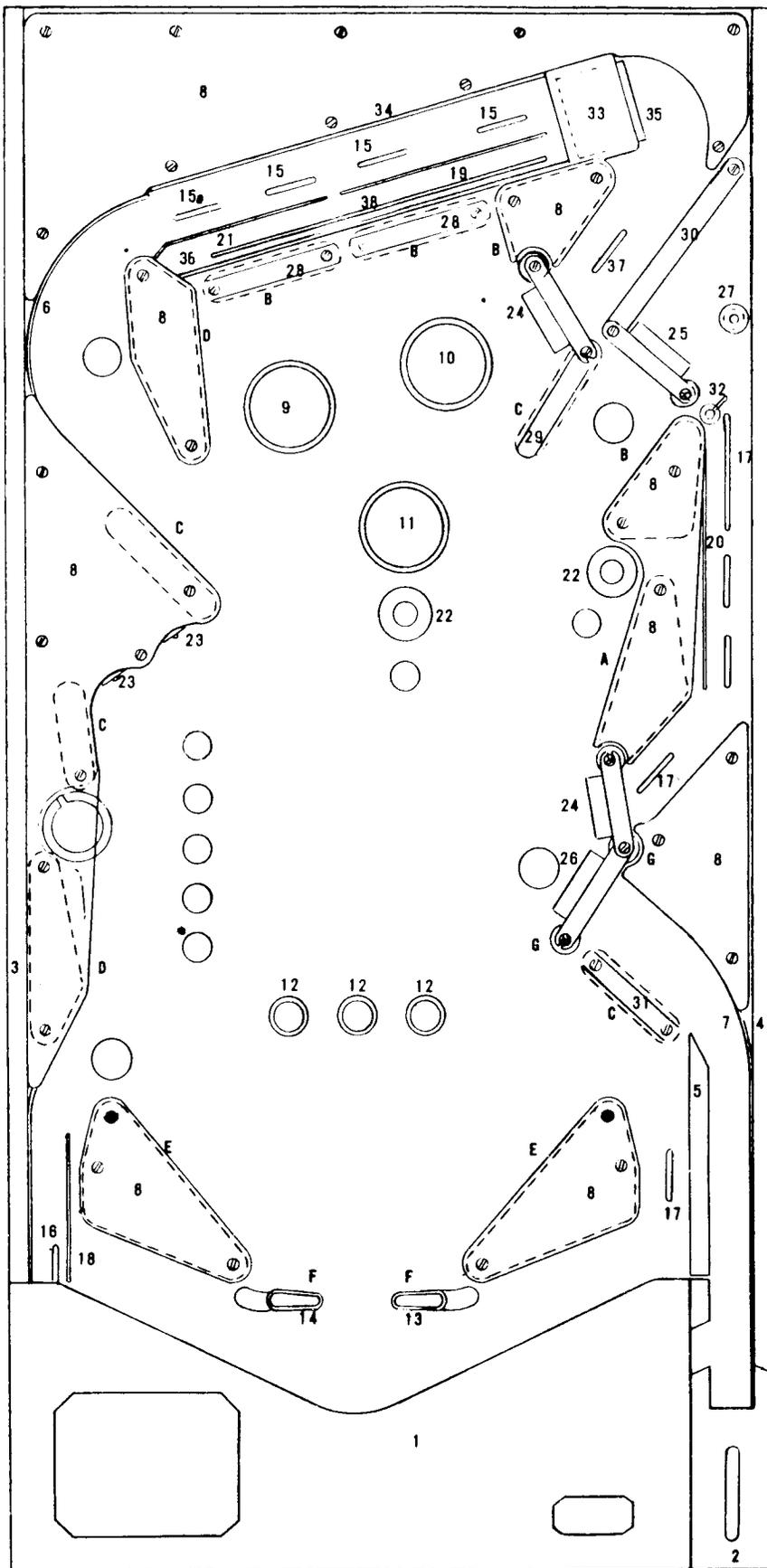
- Bushing ..... S-1559-1
- Push-on Fastener ..... M-298-9
- Switch,
  - Break ..... ASW-A2-4
  - Make ..... ASW-A1-4
- Switch Stop Bracket
  - With Break Switch... P-126-570
  - With Make Switch... P-126-562
- Washer ..... P-801-125
- 15 Flipper, White ..... C-611-5
  - Flipper Assy., page 175
- 16 Rollover Wire ..... M-1336-10
- 17 Rollover Wire ..... M-1336-3
- 18 Rollover Wire ..... M-1336-2

## ROLLOVER BRACKETS, Page 191

- 19 Plastic Guide, Red ..... C-694-1
- 20 Plastic Guide, Red ..... C-693-1
- 21 Bumper ..... C-810
  - Post Assy., page 185
- 22 Target Assy., Red ..... AS-982-732
  - Bracket ..... P-126-471
  - Plate ..... P-126-155
  - Switch Plate ..... P-137-5
  - Switch Screw (2)..... MS-540-10-110
  - Target Switch Assy. .... A-3359
- 23 Target Assy., Red ..... AS-982-752
  - Same as item 22, except
  - Switch Screw (2) ..... MS-540-11-110
  - Target Switch Assy. .... A-3359-4
- 24 Ball Gate & Wire ..... AS-2250-12
  - Bracket ..... P-5867-2
  - Wire ..... M-1272-11
- 25 Ball Gate & Wire ..... AS-2250-26
  - Bracket ..... P-600
  - Spring ..... SP-463-1
  - Wire ..... M-1272-1
- 26 Ball Gate Wire ..... M-1335-1
  - Gate Assy., page 196

• MOVEABLE POSTS

# FOUR MILLION B.C. Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-5, 3 in.
- B R-521-3, 2 in. (4)
- C R-521-2, 1½ in. (4)
- D R-521-4, 2½ in. (2)
- E R-521-6, 3¾ in. (2)
- F R-521-1, 1 in. (4)
- G R-243, 5/16 in. (3)

## OTHER PARTS

- 1 Bottom Arch ..... P-5871-38
- 2 Shooter Gauge ..... P-6359-10
- 3 Side Rail, left ..... CA-1208-11
- 4 Side Rail, right ..... CA-1208-12
- 5 Inner Rail ..... CA-1208-10
- 6 Guide Rail ..... A-2900-27
- 7 Guide Rail ..... A-2900-26
- 8 Light Shields (set) ..... A-2890-74
- 9 Bumper Cap, blue ..... C-719-16
- 10 Bumper Cap, green ..... C-719-13
- 11 Bumper Cap, red ..... C-719-12
- 12 Rollover Button ..... C-387-5

## PARTS RELATED TO ROLLOVER

See item 14, page 125

- 13 Flipper Shaft, right ..... AS-2214-6
- 14 Flipper Shaft, left ..... AS-2214-7

## FLIPPER DETAILS, page 175

- 15 Rollover Wire ..... M-1336-15
- 16 Rollover Wire ..... M-1336-16
- 17 Rollover Wire ..... M-1336-2

## BRACKETS FOR ABOVE:

See page 191

## SWITCHES FOR ABOVE:

See pages 25, 26

- 18 Ball Guide Wire ..... M-121-29
- 19 Ball Guide Wire ..... M-121-33
- 20 Ball Guide Wire ..... M-121-34
- 21 Ball Guide Wire ..... M-121-35
- 22 Mushroom Bumper ..... AS-2291
  - Cap, yellow ..... C-616-3
  - Eyelet ..... M-122-13
  - Post ..... C-617-8
  - Retaining Ring ..... P-2891-4
  - Rubber Ring ..... R-392
  - Spring ..... SP-200-162
- 23 Target Assy., red ..... AS-982-723
  - As detailed, item 22, page 125
- 24 Ball Gate & Wire ..... AS-2250-27
  - Bracket ..... P-5867-11
  - Wire ..... M-1272-25
- 25 Ball Gate & Wire ..... AS-2250-25
  - Bracket ..... P-5867-2
  - Wire ..... M-1272-6
- 26 Ball Gate & Wire ..... AS-2250-5
  - Bracket ..... P-5867-2
  - Wire,
    - Actuating\* ..... M-1272
    - Swinging ..... M-1272-1

- 27 Ball Stop ..... A-2898-31
- 28 Chrome Plate ..... P-5899-13
- 29 Chrome Plate ..... P-5899-28
- 30 Chrome Plate ..... P-5899-31
- 31 Chrome Plate ..... P-5899-11
- 32 Ball Separator ..... A-3111-1

## ACTUATING MECHANISM, 195

- 33 Ramp Hood ..... P-6629-62
- 34 Ramp Support, rear ..... P-7715
- 35 Ramp Channel ..... P-6629-61
- 36 Ramp Support, front ..... A-3523
- 37 Rollover Wire ..... M-1336-10

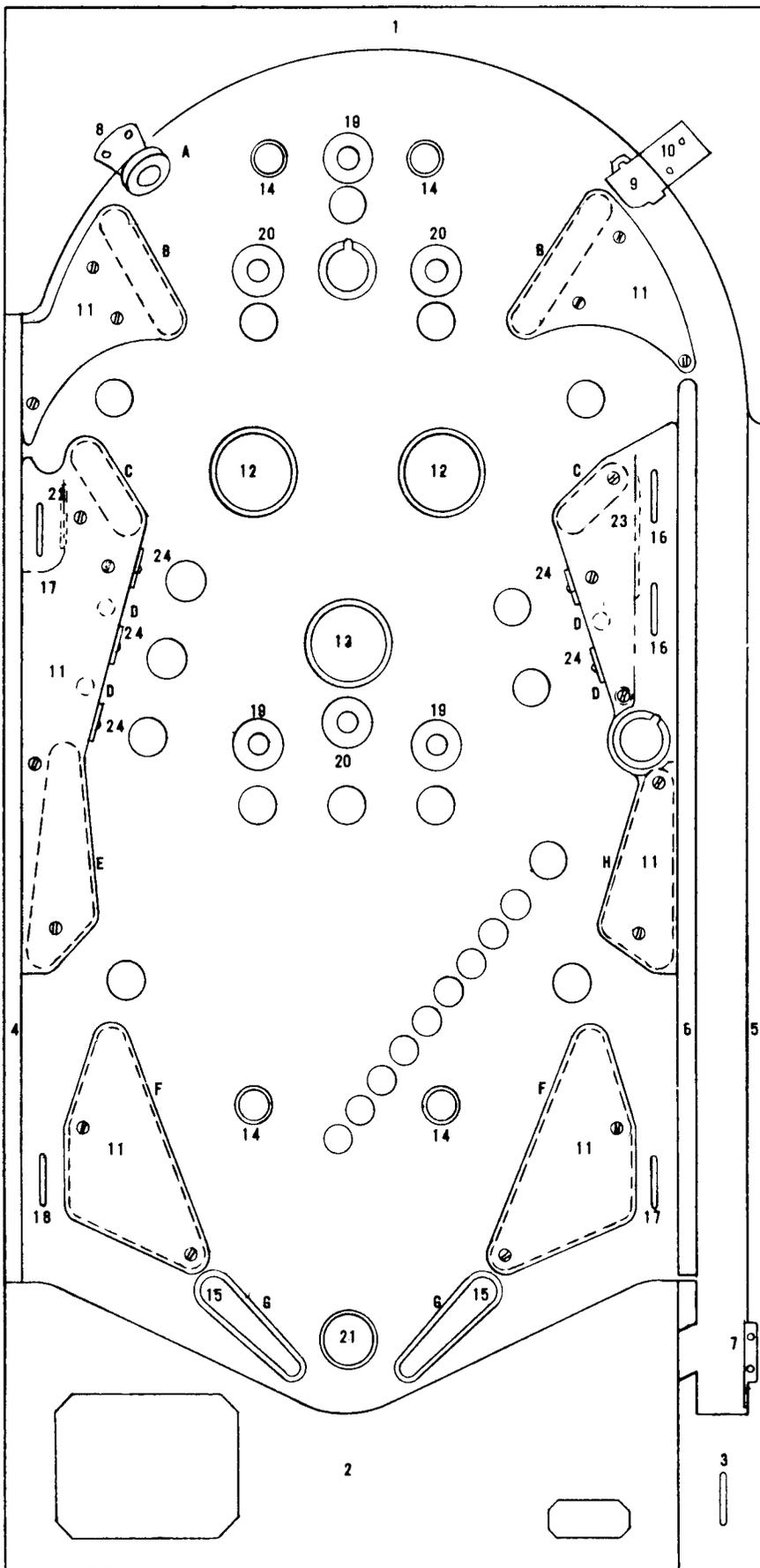
## ALSO SEE PARTS LISTED UNDER ITEM 17 ABOVE

- 38 Ball Guide Wire ..... M-121-36\*

● MOVEABLE POSTS

\*Not included in Assy.

# EXPRESSWAY Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4, Rebound
- B R-521-3, 2 in. (2)
- C R-521-1, 1 in. (2)
- D R-243, 5/16 in. (4)
- E R-521-5, 3 in.
- F R-521-6, 3 1/2 in. (2)
- G R-406-3, Flipper (2)
- H R-521-4, 2 1/2 in.

## OTHER PARTS

- 1 Top Arch ..... P-5839-59
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, left ..... CA-1208-13
- 5 Side Rail, right ..... CA-1208-1
- 6 Inner Rail ..... CA-1208-14
- 7 Protective Angle ..... P-7639
- 8 Ball Rebound ..... AS-493-3  
Detailed, item 8, page 125
- 9 Ball Gate ..... A-1475-1
- 10 Ball Gate Cover ..... P-2996-5
- 11 Light Shield (set) ..... A-2890-71
- 12 Bumper Cap, green ..... C-719-13
- 13 Bumper Cap, yellow ..... C-719-17
- 14 Rollover Button ..... C-387-5

## PARTS RELATED TO ROLLOVER BUTTON

- Bushing ..... S-1559-1
- Push-on Fastener ..... M-298-9
- Switch ..... ASW-A1-4
- Switch Stop Bracket ..... P-126-562
- Washer ..... P-801-125
- 15 Flipper, white ..... C-611-5

FLIPPER UNIT: Page 175

- 16 Rollover Wire ..... M-1336-10
- 17 Rollover Wire ..... M-1336-2
- 18 Rollover Wire ..... M-1336-3

## BRACKETS FOR 16, 17, 18:

See page 191

## SWITCHES FOR 16, 17, 18:

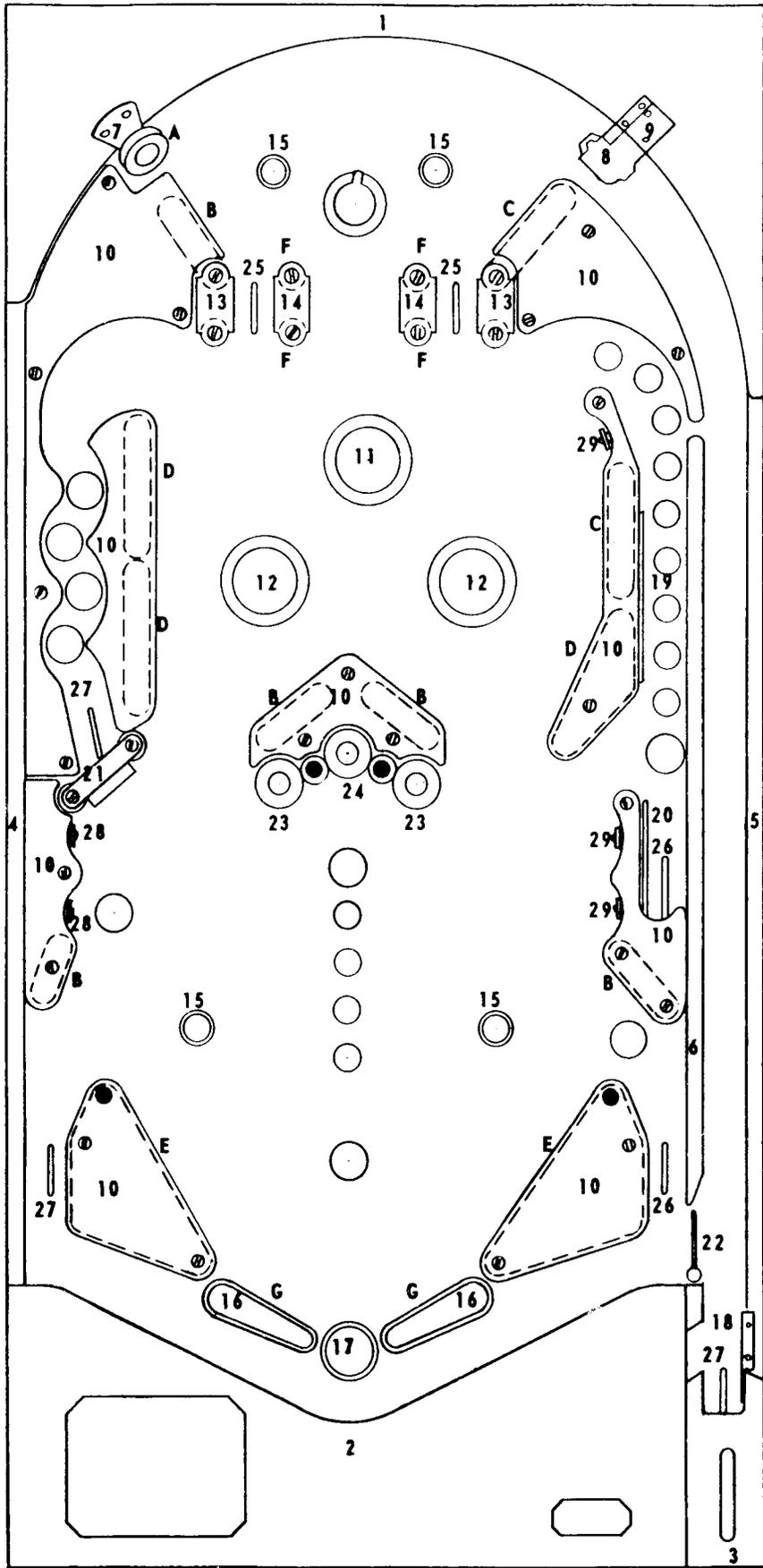
See pages 25, 26

- 19 Mushroom Bumper, .... AS-2291  
yellow  
Detailed, item 22, page 126
- 20 Mushroom Bumper, .... AS-2291-5  
orange  
Same as AS-2291, above, excepting  
Cap, orange ..... C-616-7
- 21 Bumper (Play-More Post) C-810

PLAY-MORE POST: page 185

- 22 Ball Guide Wire ..... M-121-30
- 23 Ball Guide Wire ..... M-121-33
- 24 Target Assy. .... AS-982-723  
Detailed, item 22, page 125

# SEA RAY and MARINER Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters.  
Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 Rebound
- B R-521-1, 1 in. (5)
- C R-521-2, 1 1/2 in. (2)
- D R-521-3, 2 in. (3)
- E R-521-6, 3 1/2 in. (2)
- F R-243, 5/16 in. (15)
- G R-406-3, Yellow (2)

## OTHER PARTS

- 1 Top Arch ..... P-5839-61
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, Left ..... CA-1208-2
- 5 Side Rail, Right ..... CA-1208-1
- 6 Inner Rail ..... CA-1208-9
- 7 Rebound Assy ..... AS-493-3  
As detailed, item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Light Shields (set) ..... A-2890-76
- 11 Bumper Cap, Red ..... C-719-12
- 12 Bumper Cap, Blue ..... C-719-16  
BUMPER DETAIL: PAGE 167
- 13 Guide Rail ..... C-693-1
- 14 Guide Rail ..... C-694-1
- 15 Rollover Button ..... C-387-5

## PARTS RELATED TO ROLLOVER BUTTON

- Bushing ..... S-1559-1
- Push-on Fastener ..... M-298-9
- Switch ..... ASW-A1-4
- Switch Stop Bracket ..... P-126-562
- Washer ..... P-801-125

- 16 Flipper White ..... C-611-5  
FLIPPER DETAIL: PAGE 175

- 17 Bumper ..... C-810  
POST DETAIL: PAGE 184

- 18 Protective Angle ..... P-7639
- 19 Ball Guide Wire ..... M-121-33
- 20 Ball Guide Wire ..... M-121-18
- 21 Gate Assy. .... AS-2250-11  
Bracket ..... P-5867-7  
Wire ..... M-1272-8
- 22 Gate Wire ..... M-1335-1  
GATE DETAIL: PAGE 195

- 23 Mushroom Bumper ..... AS-2291-4  
Cap, Green ..... C-616-4  
Eyelet ..... M-122-13  
Post ..... C-617-8  
Retaining Ring ..... P-2891-4  
Rubber Ring ..... R-392  
Spring, Compression ..... SP-200-162

- 24 Mushroom Bumper ..... AS-2291  
As detailed, item 22, page 126
- 25 Rollover Wire ..... M-1336-10
- 26 Rollover Wire ..... M-1336-2
- 27 Rollover Wire ..... M-1336-3

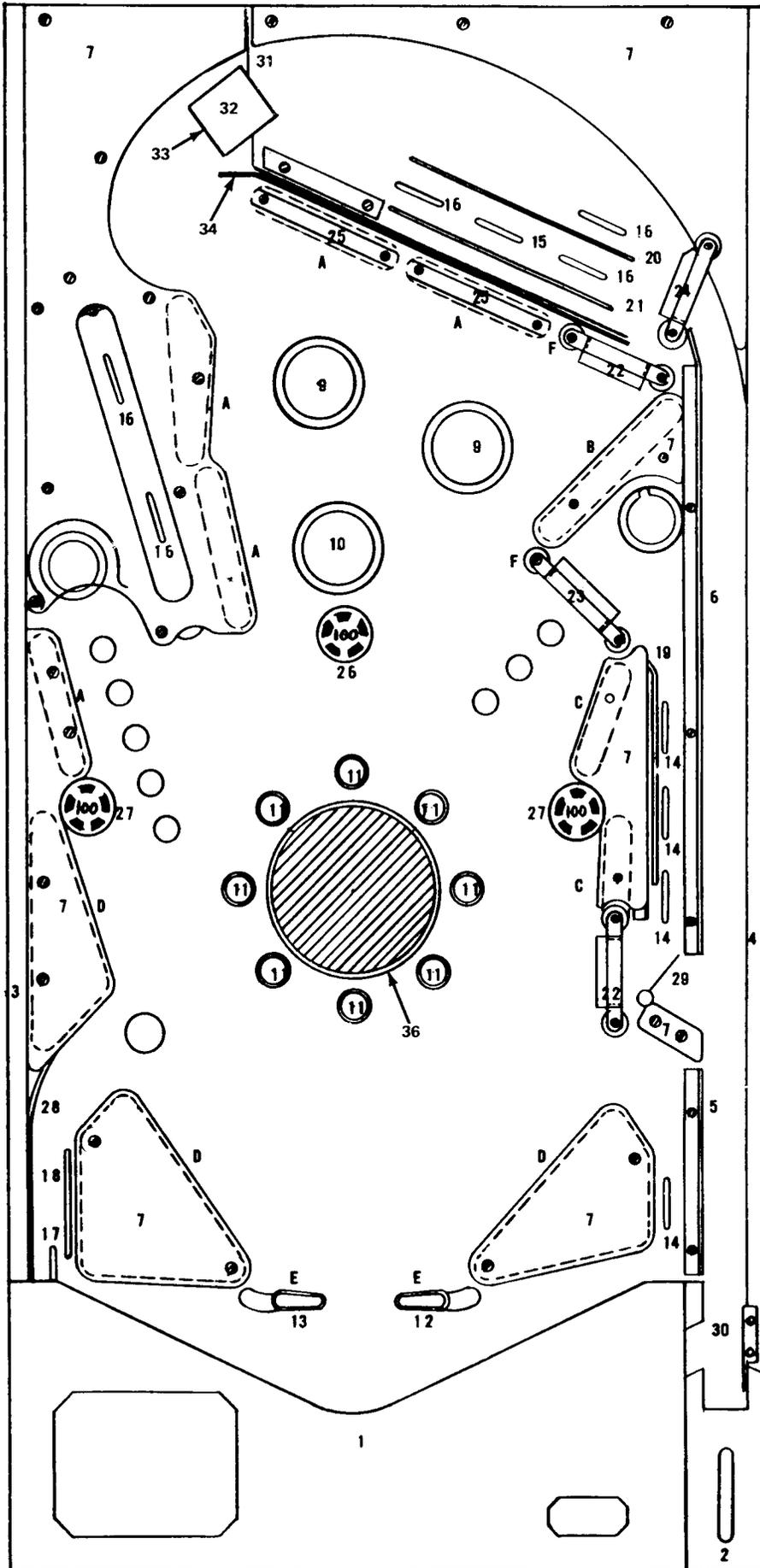
## BRACKETS FOR ABOVE: PAGE 191

## SWITCHES FOR ABOVE: PAGES 25, 26

- 28 Target Assy. .... AS-982-699  
Bracket ..... P-126-471  
Plate ..... P-126-155  
Switch Plate ..... P-137-5  
Switch Screw (2) ..... MS-540-10-110  
Target Switch Assy. .... A-3359
- 29 Target Assy. .... AS-982-723  
As detailed, item 22, page 125

● INDICATES MOVEABLE POST  
FOR SCORING ADJUSTMENT

# FIREBALL Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-3, 2 in. (5)
- B R-521-4, 2½ in.
- C R-521-2, 1½ in. (2)
- D R-521-5, 3 in. (3)
- E R-521-1, 1 in. (4)
- F R-243, 5/16 in. (6)

## OTHER PARTS

- 1 Bottom Arch ..... P-5831-38
- 2 Shooter Gauge ..... P-6359-10
- 3 Side Rail, left ..... CA-1208-16
- 4 Side Rail, right ..... CA-1208-17
- 5 Guide Rail ..... P-6495-72
- 6 Guide Rail ..... P-6495-71
- 7 Light Shields & Bushing, Screened (set) ..... A-2890-81
- 8 Light Shields & Bushing, Clear (set) ..... A-2890-82
- 9 Bumper Cap, yellow ..... C-719-17
- 10 Bumper Cap, blue ..... C-719-16
- 11 Rollover Button ..... C-387-5

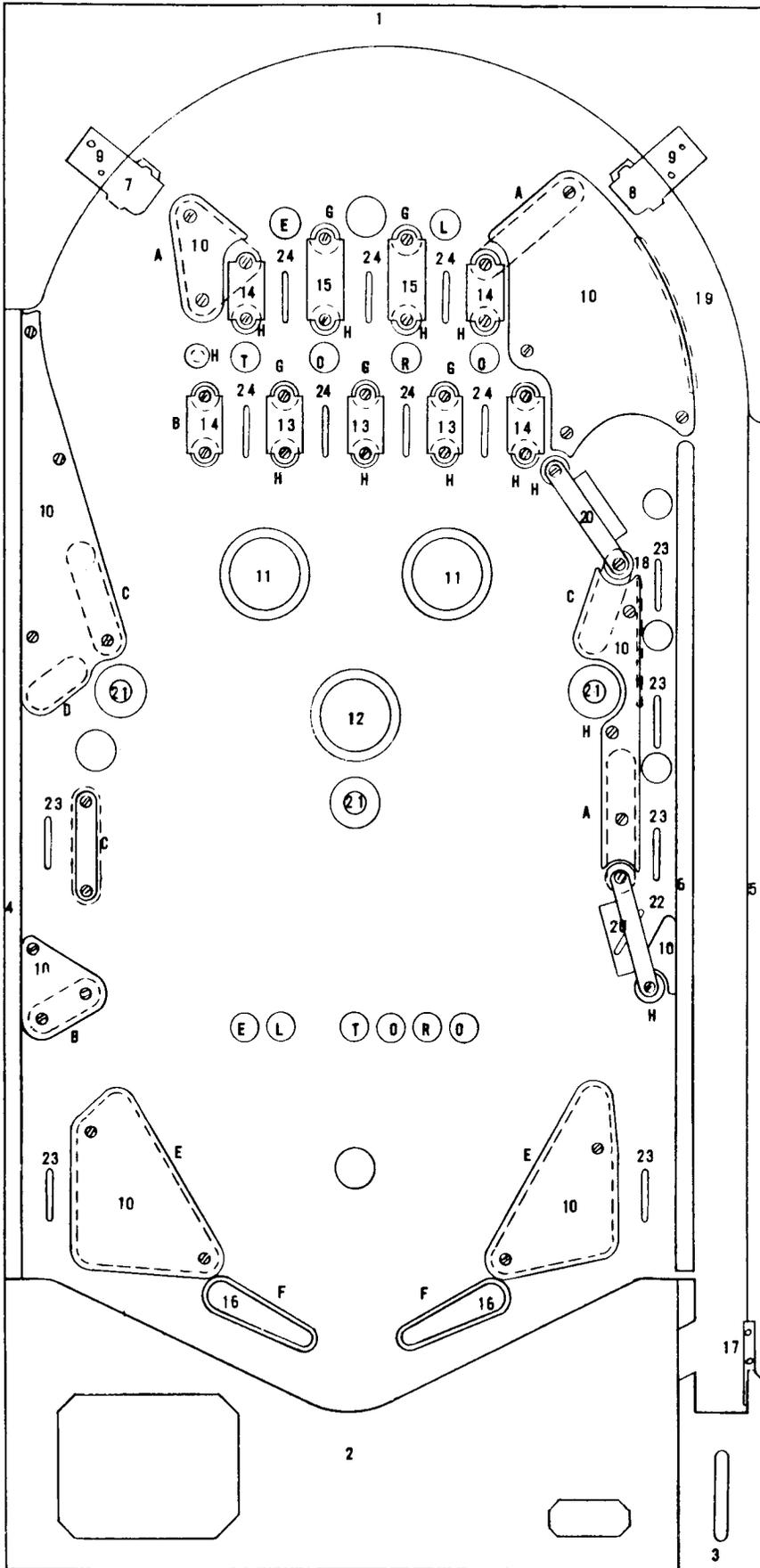
## PARTS RELATED TO ROLLOVER BUTTON

- Bushing ..... S-1559-1
  - Push-on Fastener ..... M-298-9
  - Switch,
    - Break (2 used) ..... ASW-A2-4
    - Make (6 used) ..... ASW-A1-4
  - Switch Stop Bracket
    - With Break Switch ... P-126-570
    - With Make Switch ... P-126-562
  - Washer ..... P-801-125
  - 12 Flipper and Shaft, right ... AS-2214-6
  - 13 Flipper & Shaft, left ... AS-2214-7
- items 12, 13 DETAILED ON PAGE 175
- 14 Rollover Wire ..... M-1336-2
  - 15 Rollover Wire ..... M-1336-9
  - 16 Rollover Wire ..... M-1336-10
  - 17 Rollover Wire ..... M-1336-13
- BRACKETS FOR ITEMS 14, 15, 16, 17:  
See page 191

## SWITCHES FOR ITEMS 14, 15, 16, 17: See pages 25, 26

- 18 Ball Guide Wire ..... M-121-18
  - 19 Ball Guide Wire ..... M-121-34
  - 20 Ball Guide Wire ..... M-121-37
  - 21 Ball Guide Wire ..... M-121-38
  - 22 Ball Gate & Wire Assy. ... AS-2250-12  
Detailed, Item 24, page 125
  - 23 Ball Gate & Wire Assy. ... AS-2250-24
    - Bracket ..... P-5867-12
    - Wire ..... M-1272-17
  - 24 Ball Gate & Wire Assy ... AS-2250-29
    - Bracket ..... P-5867-12
    - Wire ..... M-1272-29
  - 25 Chrome Plate ..... P-5899-7
  - 26 Mushroom Bumper ..... AS-2291-10
    - Cap, blue ..... C-616-10
    - Eyelet ..... M-122-13
    - Post ..... C-617-8
    - Retaining Ring ..... P-2891-4
    - Rubber Ring ..... R-392
    - Spring ..... SP-200-162
  - 27 Mushroom Bumper ..... AS-2291-11  
Same as item 26, above, excepting  
Cap, yellow ..... C-616-17
  - 28 Guide Rail ..... P-6244-52
  - 29 Gate Wire ..... M-1335-1
  - 30 Protective Wire ..... P-7639
  - 31 Stiffener Bracket ..... P-1973-295  
(NOT SHOWN IN CHART)
  - 32 Ramp Hood ..... P-7803
  - 33 Ramp End ..... P-7800  
(UNDER HOOD)
  - 34 Ramp Support (Front) .. P-7806
  - 35 Ramp Support (Rear) ... A-3569  
(NOT VISIBLE IN CHART)  
(LOCATED ON BOTTOM OF PANEL)
  - 36 Spinner Assy. .... AS-2699
- ILLUSTRATED, PAGE 193

# EL TORO Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-3, 2 in. (3)
- B R-521-1, 1 in. (2)
- C R-521-2, 1½ in. (3)
- D R-521, ¾ in.
- E R-521-5, 3 in. (2)
- F R-406-3, yellow (2)
- G R-243-2, 5/16 in. (5)
- H R-243, 5/16 in. (14)

## OTHER PARTS

- 1 Top Arch ..... P-5839-62
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, left ..... CA-1208-2
- 5 Side Rail, right ..... CA-1208-1
- 6 Inside Rail ..... CA-1208-14
- 7 Ball Gate, right ..... A-1475-4
- 8 Ball Gate, left ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Light Shield (set) ..... A-2890-79
- 11 Bumper Cap, green ..... C-719-13
- 12 Bumper Cap, yellow ..... C-719-17
- 13 Guide Rail (3 used) ..... C-693-5
- 14 Guide Rail (4 used) ..... C-694-5
- 15 Guide Rail (2 used) ..... C-695-5
- 16 Flipper, white ..... C-611-5  
Flipper Unit, page 175
- 17 Protective Angle ..... P-7639
- 18 Ball Guide Wire ..... M-121-30
- 19 Ball Guide Wire ..... M-121-33
- 20 Ball & Wire Assy ..... AS-2250-24  
As detailed, item 23, page 129
- 21 Mushroom Bumper Assy. . . AS-2291  
As detailed, item 22, page 129
- 22 Rollover Wire ..... M-1336-2
- 23 Rollover Wire (6 used) .. M-1336-3
- 24 Rollover Wire (7 used) .. M-1336-10

## BRACKETS FOR 22, 23, 24:

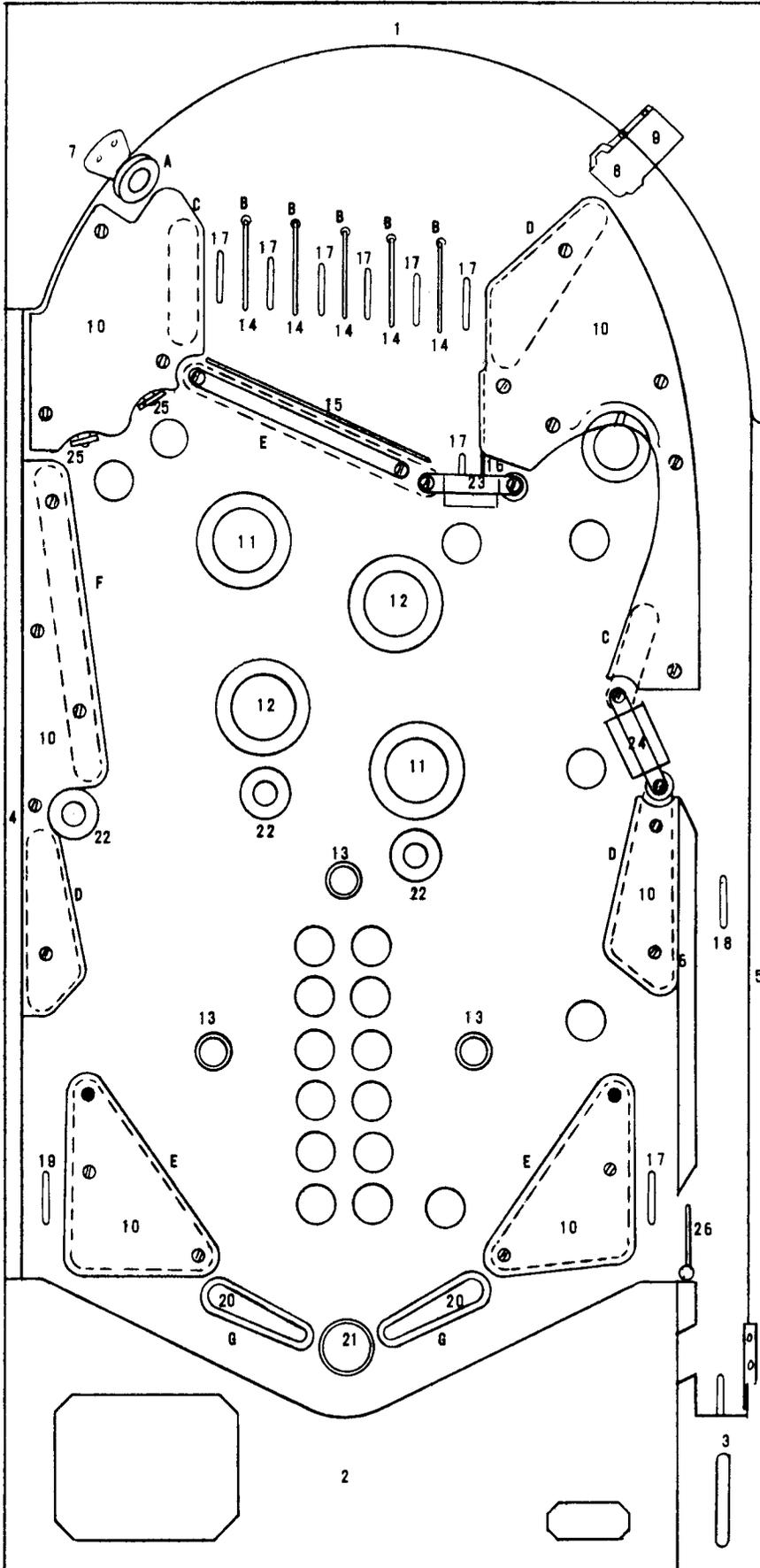
See page 191

## SWITCHES FOR 22, 23, 24:

See pages 25, 26

● INDICATES MOVABLE POST  
FOR SCORING ADJUSTMENT

# LITTLE JOE Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound Rubber)
- B R-115-29 (Insulating Sleeve) (5)
- C R-521-2, 1½ in. (2)
- D R-521-4, 2½ in. (3)
- E R-521-5, 3 in. (3)
- F R-521-7, 4 in.
- G R-406-3 (Flipper) (2)

## OTHER PARTS

- 1 Top Arch ..... P-5839-59
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, left ..... CA-1208-2
- 5 Side Rail, right ..... CA-1208-1
- 6 Inner Rail ..... CA-1208-18
- 7 Rebound Assy. .... AS-493-3  
Detailed, Item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Light Shields (set) ..... A-2890-85
- 11 Bumper Cap, red ..... C-719-12
- 12 Bumper Cap, yellow .... C-719-17

## BUMPER DETAIL: PAGE 167

- 13 Rollover Button ..... C-387-5

## PARTS RELATED TO ITEM 13

- Bushing ..... S-1559-1
- Push-on Fastener ..... M-298-9
- Switch ..... ASW-A1-4
- Switch Stop Bracket ..... P-126-562
- Switch Plate (spring) .... P-137-5
- Washer,

- Black Oxided ..... P-801-258
- Cadmium Plated ..... P-801-125

- 14 Ball Guide Wire ..... M-121-24
- 15 Ball Guide Wire ..... M-121-34
- 16 Ball Guide Wire ..... M-121-29
- 17 Rollover Wire ..... M-1336-2
- 18 Rollover Wire ..... M-1336-10
- 19 Rollover Wire ..... M-1336-3

## PARTS RELATED TO ITEMS 17, 18, 19

- Brackets: see page 191
- Switch ..... ASW-A1-5
- 20 Flipper ..... C-611-5

## FLIPPER UNIT: PAGE 175

- 21 Bumper Post ..... C-810

## POST ASSYS: PAGE 184

- 22 Mushroom Bumper Assy.,  
Yellow ..... AS-2291-11  
Detailed, Item 27, page 129

- 23 Gate & Wire Assy. .... AS-2250-4

- Bracket ..... P-6000
- Spring, Torsion ..... SP-463-1

- Wire .....  
Actuating\* ..... M-1272\*

- Gate .....  
Barrier ..... M-1272-6  
Relay Operated .. M-1272-1

- 24 Gate & Wire Assy. .... AS-2250-11  
Detailed, Item 21, page 128

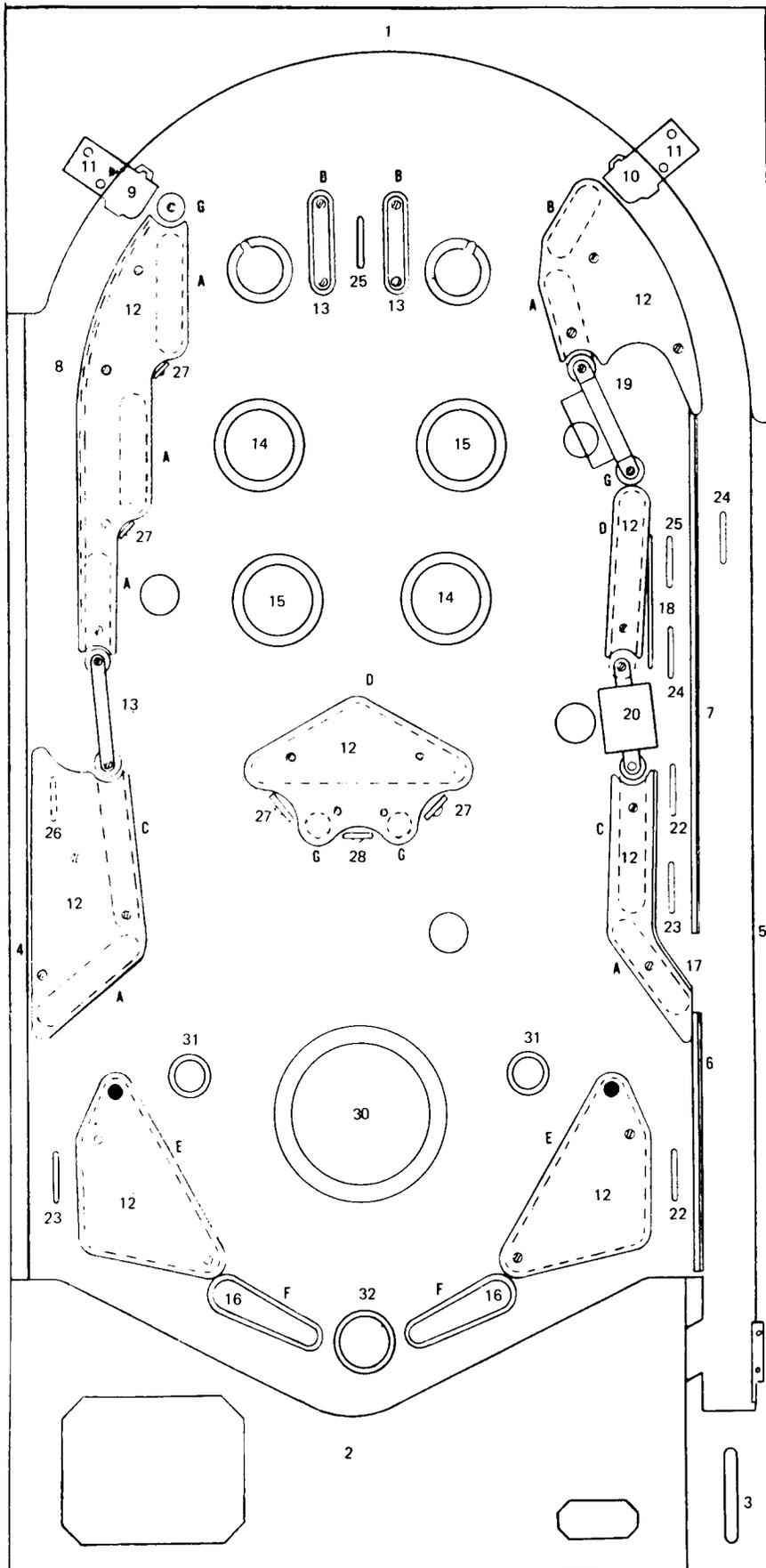
- 25 Target Assy., red ..... AS-982-699  
Detailed, Item 28, page 128

- 26 Free Gate Wire ..... M-1336-1  
GATE ASSY.: PAGE 195

- 27 Protective Angle ..... P-7639

\*Not part of Assy.

# SPACE TIME Playfield Chart



## RUBBER PARTS

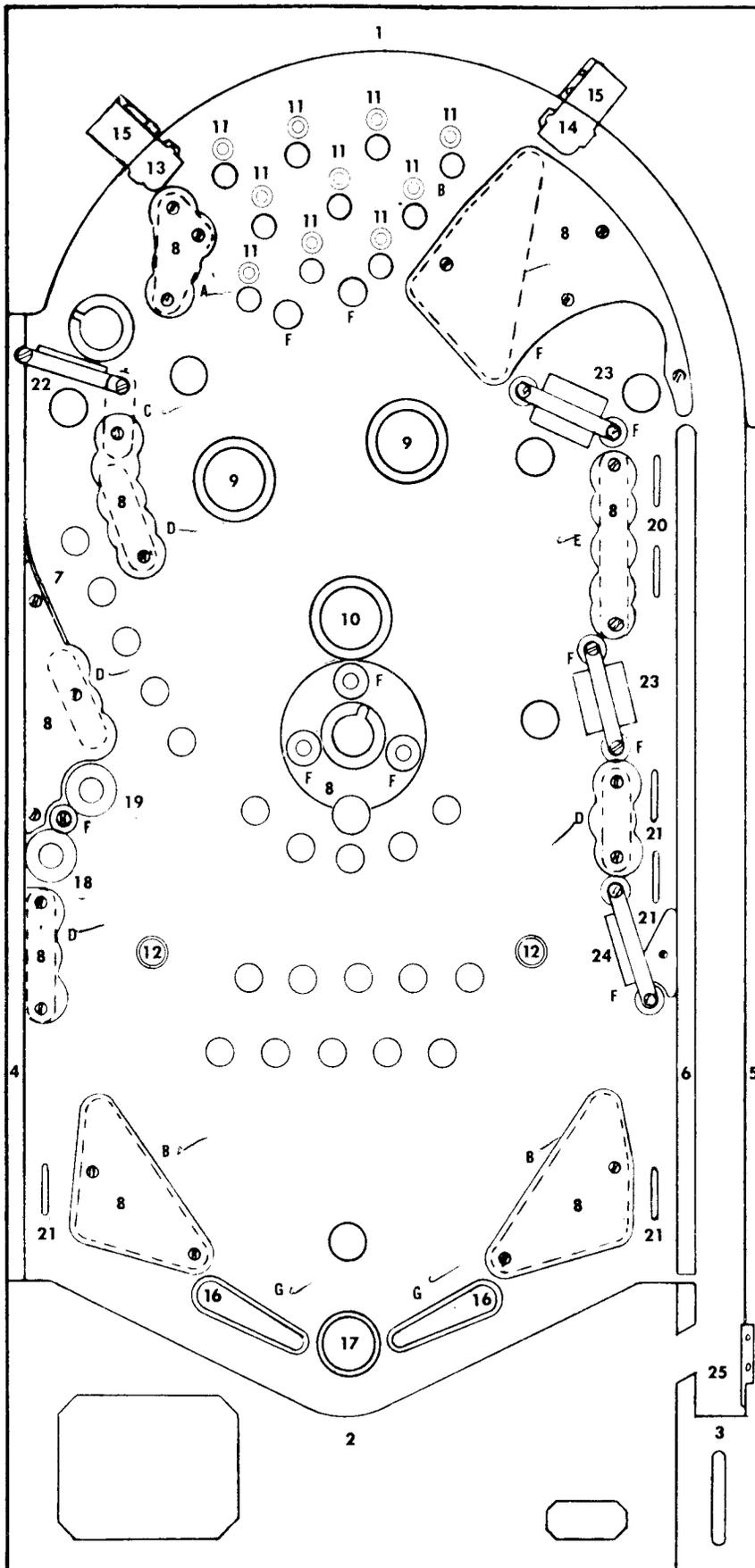
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-2, 1 1/2 in. (6)
- B R-521-1, 1 in. (3)
- C R-521-3, 2 in. (2)
- D R-521-4, 2 1/2 in. (2)
- E R-521-5, 3 in. (2)
- F R-406-3 (Yellow) (2)
- G R-243, 5/16 in. (4)

## OTHER PARTS

- 1 Top Arch ..... P-5839-54
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, left ..... CA-1208-15
- 5 Side Rail, right ..... CA-1208-1
- 6 Ball Guide, bottom right. P-6495-66
- 7 Ball Guide, top right. .... P-6495-64
- 8 Ball Guide, top left. .... P-6495-65
- 9 Ball Gate, left ..... A-1475-4
- 10 Ball Gate, right ..... A-1475-1
- 11 Ball Gate Cover (2 used) . P-2996-5
- 12 Light Shields (set) ..... A-2890-87
- 13 Plate ..... P-5899-29
- 14 Bumper Cap ..... C-719-12
- 15 Bumper Cap ..... C-719-16
- Details of Bumper Assys.,  
    page 167
- 16 Flipper, white ..... C-611-5
- Details of Flipper Assys.,  
    page 175
- 17 Guide Wire ..... M-121-28
- 18 Guide Wire ..... M-121-18
- 19 Gate & Wire Assy. .... AS-2250-28
- Bracket ..... P-5867-14
- Spring, Torsion ..... SP-463-1
- Wire,  
    Actuating\* ..... M-1272\*
- Gate,  
    Barrier ..... M-1272-27
- Relay Operated M-1272-28
- \*Not included in Assy.
- 20 Gate & Wire Assy. .... AS-2250-4
- As detailed, item 23, page 131
- 21 Gate Bracket ..... P-5867-2
- 22 Rollover Wire (2 used) . . . M-1336-2
- 23 Rollover Wire (2 used) . . . M-1336-3
- 24 Rollover Wire (2 used) . . . M-1336-9
- 25 Rollover Wire (2 used) . . . M-1336-10
- 26 Rollover Wire. .... M-1336-13
- Brackets for Items 22-26:  
page 191
- Switches for Items 22-26:  
pages 25, 26
- 27 Target Assy. (4 used). . . . AS-982-699
- As detailed, item 28, page 128
- 28 Target Assy. .... AS-982-723
- As detailed item 22, page 125
- 29 Window Gasket. .... M-1398
- 30 Playfield Window ..... M-1499
- Details of units with items 29, 30,  
    pages 107, 108
- 31 Rollover Button (2 used). . C-387-5
- Parts related to item 31:  
see parts listed under item 13,  
page 131
- 32 Bumper ..... C-810
- Details of Playmore Post,  
    page 185
- INDICATES MOVABLE POSTS  
FOR SCORING ADJUSTMENTS

# MONTE CARLO, ODDS & EVENS Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-3, 2 in. — 1
- B R-521-5, 3 in. (3) — 3
- C R-521-1, 1 in. — 1
- D R-521-2, 1½ in. (4) — 4
- E R-521-4, 2½ in. — 1
- F R-243 — 12
- G R-406-3 (Flipper) (2) — 2

## OTHER PARTS

- 1 Top Arch ..... P-5839-63
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, left ..... CA-1208-15
- 5 Side Rail, right ..... CA-1208-1
- 6 Inner Rail ..... CA-1208-141
- 7 Guide Rail Assy. .... A-3032-17
- 8 Light Shield (set) ..... A-2890-90
- 9 Bumper Cap, blue ..... C-719-16
- 10 Bumper Cap, yellow .... C-719-17

Details of Thumper Bumper Assys. appear on page 167, plus

Elastic Stop Nut ..... M-319-6

11 Rollover Button, small ... C-387-6

12 Rollover Button, large ... C-387-5

PARTS RELATED TO ITEMS 11, 12:

See parts listed under item 13, page 131

13 Ball Gate, left ..... A-1475-4

14 Ball Gate, right ..... A-1475-1

15 Ball Gate Cover ..... P-2996-5

16 Flipper ..... C-611-5

Details of Flipper Assys. appear on page 175

17 Post, Playmore ..... C-810

Details of Post Assys. appear on page 185

18 Mushroom Bumper, blue . AS-2291-17 <sup>1</sup>

Cap & Plunger ..... C-616-17 — 1

Eyelet ..... M-122-13

Post ..... C-617-8

Ring,

Retaining ..... P-2891-4

Rubber ..... R-392 — 2

Spring, Compression SP-200-162

19 Mushroom Bumper, red. . AS-2291-18 <sup>1</sup>

Same as item 18, excepting

Cap ..... C-616-18 — 1

PARTS RELATED TO ITEMS 18, 19:

Pal Nut ..... M-1314-2

Switch ..... ASW-A-20-9

20 Rollover Wire ..... M-1336-10

21 Rollover Wire ..... M-1336-2

Brackets for item 20, 21: page 191

Switches for items 20, 21: pages 25, 26

22 Gate & Wire Assy. .... AS-2250-30

Bracket ..... P-5867-12

Wire ..... M-1272-27

23 Gate & Wire Assy. .... AS-2250-4

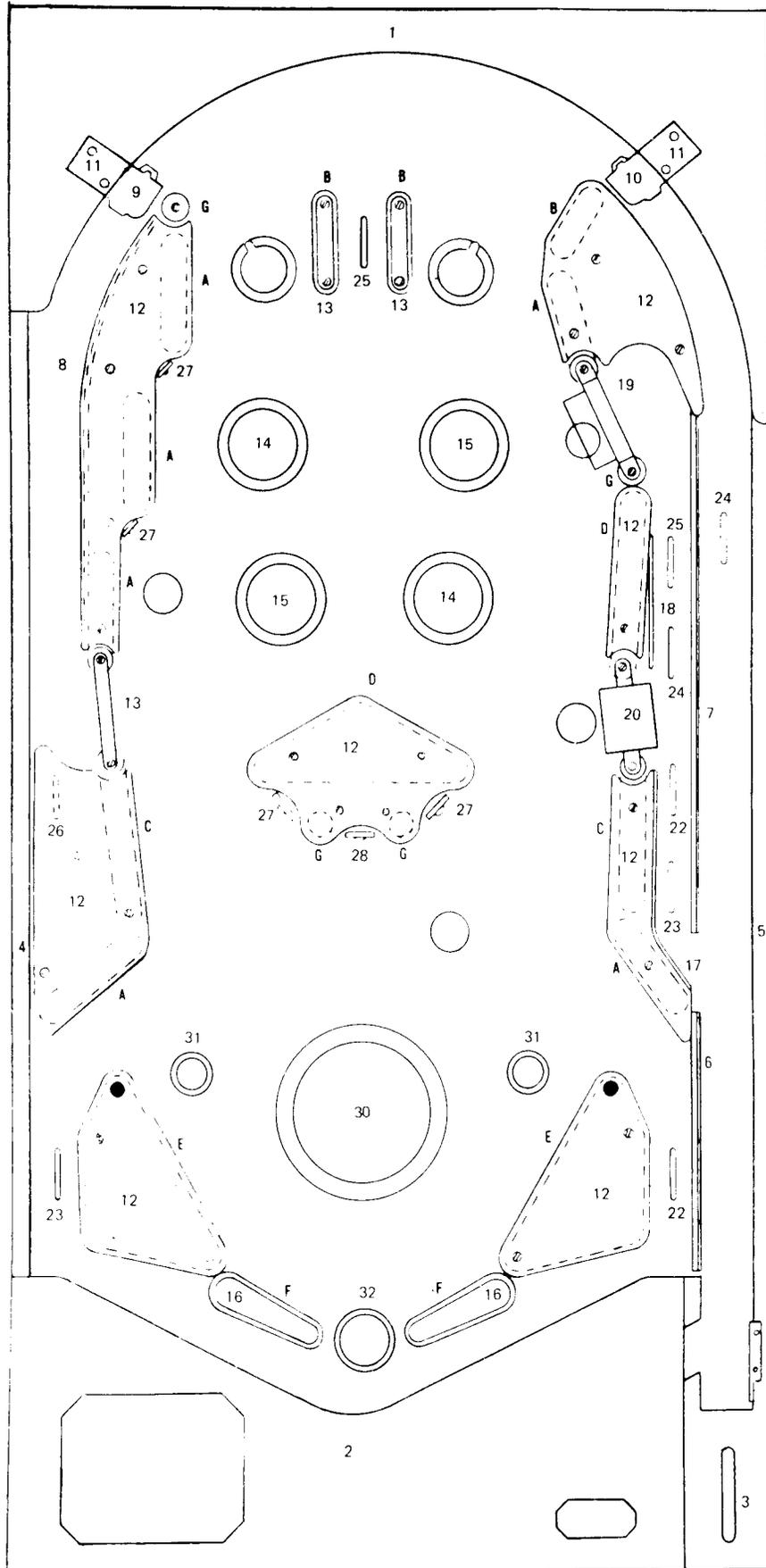
Detailed, item 23, page 131

24 Gate & Wire Assy. .... AS-2250-24

Detailed, item 23, page 129

25 Protective Angle ..... P-7639

# TIME ZONE Playfield Chart



## RUBBER PARTS

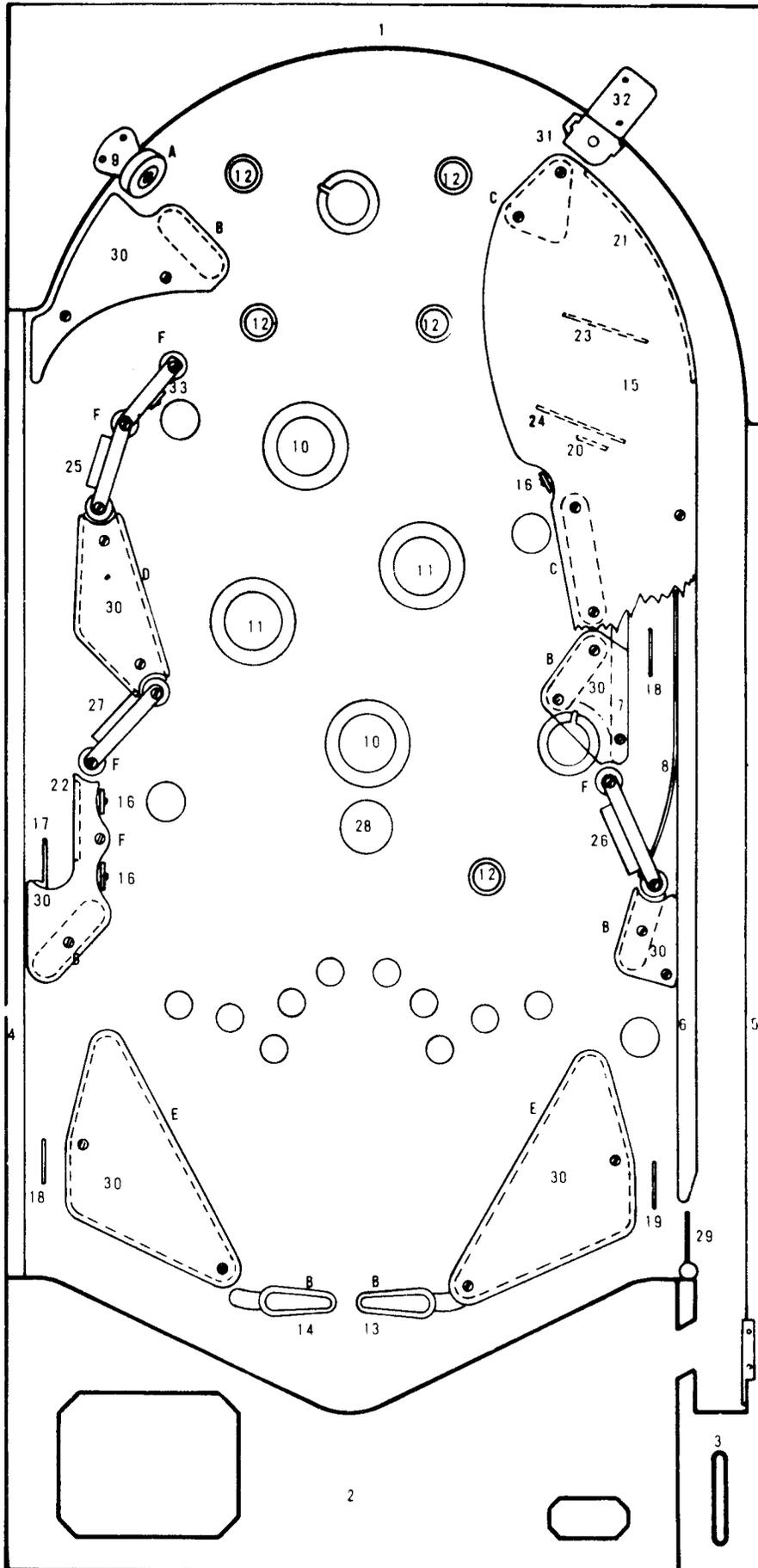
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-2, 1½ in. (6)
- B R-521-1, 1 in. (3)
- C R-521-3, 2 in. (2)
- D R-521-4, 2½ in. (2)
- E R-521-5, 3 in. (2)
- F R-406-3 (Yellow) (2)
- G R-243, 5/16 in. (4)

## OTHER PARTS

- 1 Top Arch . . . . . P-5839-54
- 2 Bottom Arch . . . . . P-5871-38
- 3 Shooter Gauge . . . . . P-6359-10
- 4 Side Rail, left . . . . . CA-1208-15
- 5 Side Rail, right . . . . . CA-1208-1
- 6 Ball Guide, bottom right. . . . . P-6495-66
- 7 Ball Guide, top right. . . . . P-6495-64
- 8 Ball Guide, top left. . . . . P-6495-65
- 9 Ball Gate, left . . . . . A-1475-4
- 10 Ball Gate, right . . . . . A-1475-1
- 11 Ball Gate Cover (2 used). . . . . P-2996-5
- 12 Light Shields (set) . . . . . A-2890-87
- 13 Plate . . . . . P-5899-29
- 14 Bumper Cap . . . . . C-719-12
- 15 Bumper Cap . . . . . C-719-16
- Details of Bumper Assys.,  
    page 167
- 16 Flipper, white . . . . . C-611-5
- Details of Flipper Assys.,  
    page 175
- 17 Guide Wire . . . . . M-121-28
- 18 Guide Wire . . . . . M-121-18
- 19 Gate & Wire Assy. . . . . AS-2250-28
- As detailed, item 19, page 132
- 20 Gate & Wire Assy. . . . . AS-2250-4
- As detailed, item 23, page 131
- 21 Gate Bracket. . . . . P-5867-2
- 22 Rollover Wire (2 used) . . . . . M-1336-2
- 23 Rollover Wire (2 used) . . . . . M-1336-3
- 24 Rollover Wire (2 used) . . . . . M-1336-9
- 25 Rollover Wire (2 used) . . . . . M-1336-10
- 26 Rollover Wire . . . . . M-1336-13
- Brackets for Items 22-26:  
page 191
- Switches for Items 22-26:  
pages 25, 26
- 27 Target Assy. (4 used) . . . . . AS-982-699
- As detailed, item 28, page 128
- 28 Target Assy. . . . . AS-982-723
- As detailed, item 22, page 125
- 29 Window Gasket. . . . . M-1398
- 30 Playfield Window . . . . . M-1499
- Details of units with items 29, 30,  
    pages 107, 108
- 31 Rollover Button (2 used). . . . . C-387-5
- Parts related to item 31:  
see parts listed under item 14,  
page 127
- 32 Bumper. . . . . C-810
- Details of Playmore Post,  
    page 185
- INDICATES MOVABLE POSTS  
FOR SCORING ADJUSTMENTS

# NIP-IT Playfield Chart



## RUBBER PARTS

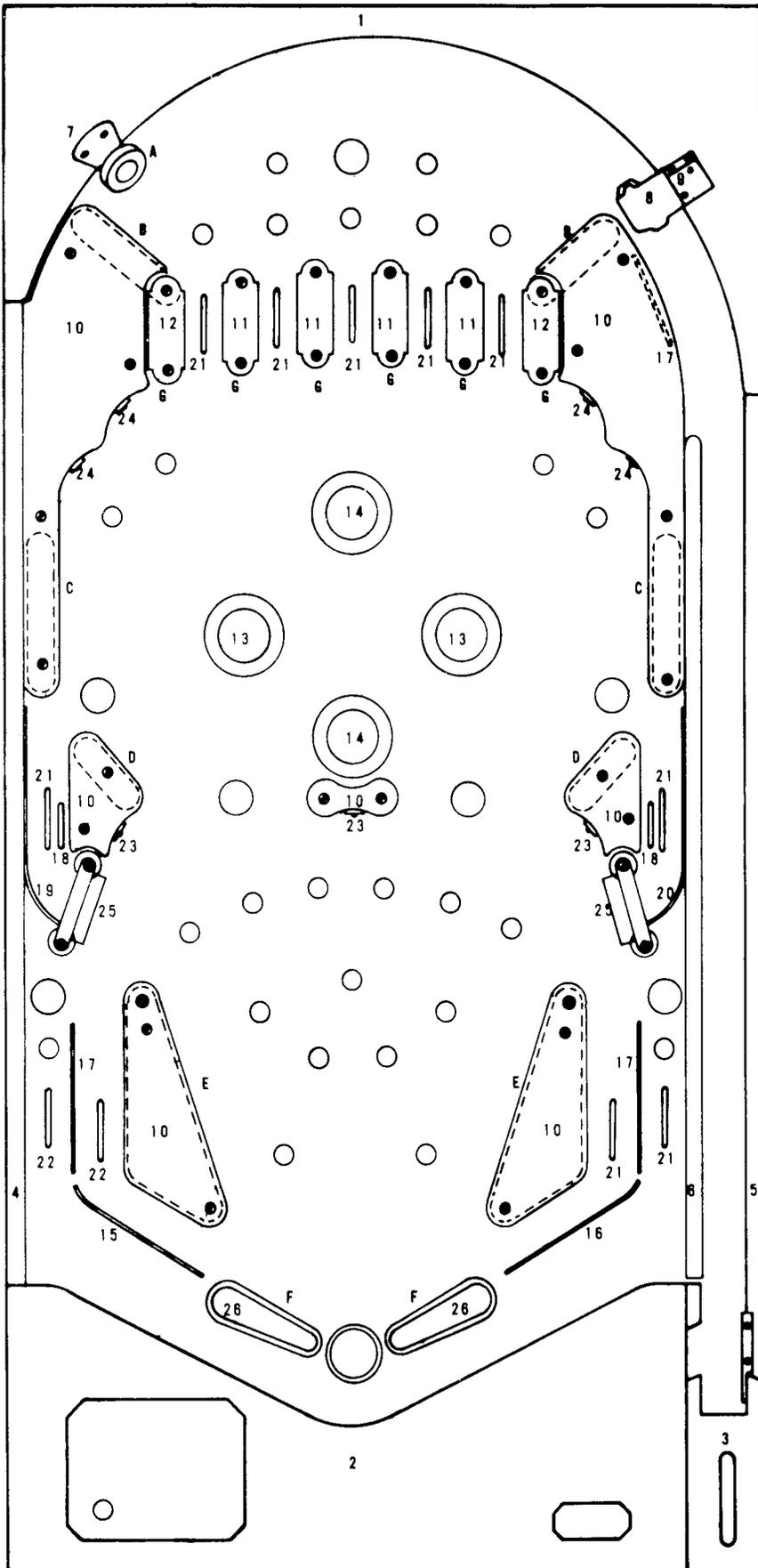
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 Rebound
- B R-521-1, 1 in. (8)
- C R-521-2, 1½ in. (2)
- D R-521-5, 3 in.
- E R-521-6, 3½ in. (2)
- F R-243, 5/16 in. (6)

## OTHER PARTS

- 1 Top Arch ..... P-5839-60
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, Left ..... CA-1208-13
- 5 Side Rail, Right ..... CA-1208-1
- 6 Inside Rail ..... CA-1208-20
- 7 Inside Rail ..... CA-1208-19
- 8 Guide Rail ..... P-6244-53
- 9 Rebound Assy ..... AS-493-3  
As detailed, item 8, page 125
- 10 Bumper Cap, Red ..... C-719-12
- 11 Bumper Cap, Yellow ..... C-719-17  
Details of Bumper Assys., page 167
- 12 Rollover Button ..... C-387-5  
PARTS RELATED TO ITEM 12:  
See parts listed under item 14, page 127
- 13 Flipper & Shaft, Right ... AS-2214-6
- 14 Flipper & Shaft, Left ... AS-2214-7  
Details of Flipper Assys., page 175
- 15 Alligator Cover ..... M-1639-1  
Details of Alligator mechanism  
(Ball Grabber Assy.)  
page 167
- 16 Target Assy. .... AS-982-723  
As detailed, item 22, page 125
- 17 Rollover Wire ..... M-1336-18
- 18 Rollover Wire ..... M-1336-3
- 19 Rollover Wire ..... M-1336-2  
PARTS RELATED TO ITEMS  
17, 18, 19  
Brackets: See page 191  
Switch ASW-A1-5
- 20 Ball Guide Wire ..... M-121-11
- 21 Ball Guide Wire ..... M-121-16
- 22 Ball Guide Wire ..... M-121-18
- 23 Ball Guide Wire ..... M-121-41
- 24 Ball Guide Wire ..... M-121-42
- 25 Ball Gate Assy. .... AS-2250-18  
Bracket ..... P-5867-11  
Wire ..... M-1272-18
- 26 Ball Gate & Wire Assy. ... AS-2250-24  
As detailed, item 23, page 129
- 27 Ball Gate & Wire Assy. .... AS-2250-31  
Bracket ..... P-5867-2  
Wire ..... M-1272-30
- 28 Mushroom Bumper Assy. .... AS-2291-13  
Bumper Rubber ..... R-392  
Cap & Plunger Assy. .... A-3712-2  
Eyelet ..... M-122-13  
Post ..... C-617-8  
Push-on Fastener ..... M-298-9  
Spring, Compression .... SP-200-162
- PARTS RELATED TO ITEM 28:  
Pal Nut ..... M-1314-2  
Switch ..... ASW-A20-9
- 29 Gate Wire ..... M-1335
- 30 Light Shields (set) ..... A-2890-88
- 31 Ball Gate ..... A-1475-1
- 32 Ball Gate Cover ..... P-2996-5
- 33 Target Assy. .... AS-932-699  
As detailed, item 28, page 128

# HI-LO ACE Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-2, 1-1/2 in. (2)
- C R-521-3, 2 in. (2)
- D R-521-1, 1 in. (2)
- E R-521, 1/2 in. (2)
- F R-243, 5/16 in. (20)

## OTHER PARTS

- 1 Top Arch ..... P-5839-66
- 2 Bottom Arch ..... P-5871-43
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, right ..... CA-1208-1
- 5 Side Rail, left ..... CA-1208-2
- 6 Inside Rail ..... CA-1208-14
- 7 Ball Rebound ..... AS-493-3  
Detailed, item 8, page 125

- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Light Shields (set) ..... A-2890-92
- 11 Plastic Guide ..... C-695-1
- 12 Plastic Guide ..... C-696-1
- 13 Bumper Cap, blue ..... A-3713-11
- 14 Bumper Cap, yellow ..... A-3713-12

Details of Bumper Assys.  
page 167

- 15 Ball Guide Wire ..... M-121-43
- 16 Ball Guide Wire ..... M-121-44
- 17 Ball Guide Wire (3) ..... M-121-45
- 18 Ball Guide Wire (2) ..... M-121-46
- 19 Guide Rail, left ..... P-6244-57
- 20 Guide Rail, right ..... P-6244-58
- 21 Rollover Wire (9) ..... M-1336
- 22 Rollover Wire (2) ..... M-1336-1

Brackets for items 21, 22:  
page 191

Switches for items 21, 22:

- Make (2) ..... ASW-A1-5
- Make-Make (9) ..... ASW-A11-2

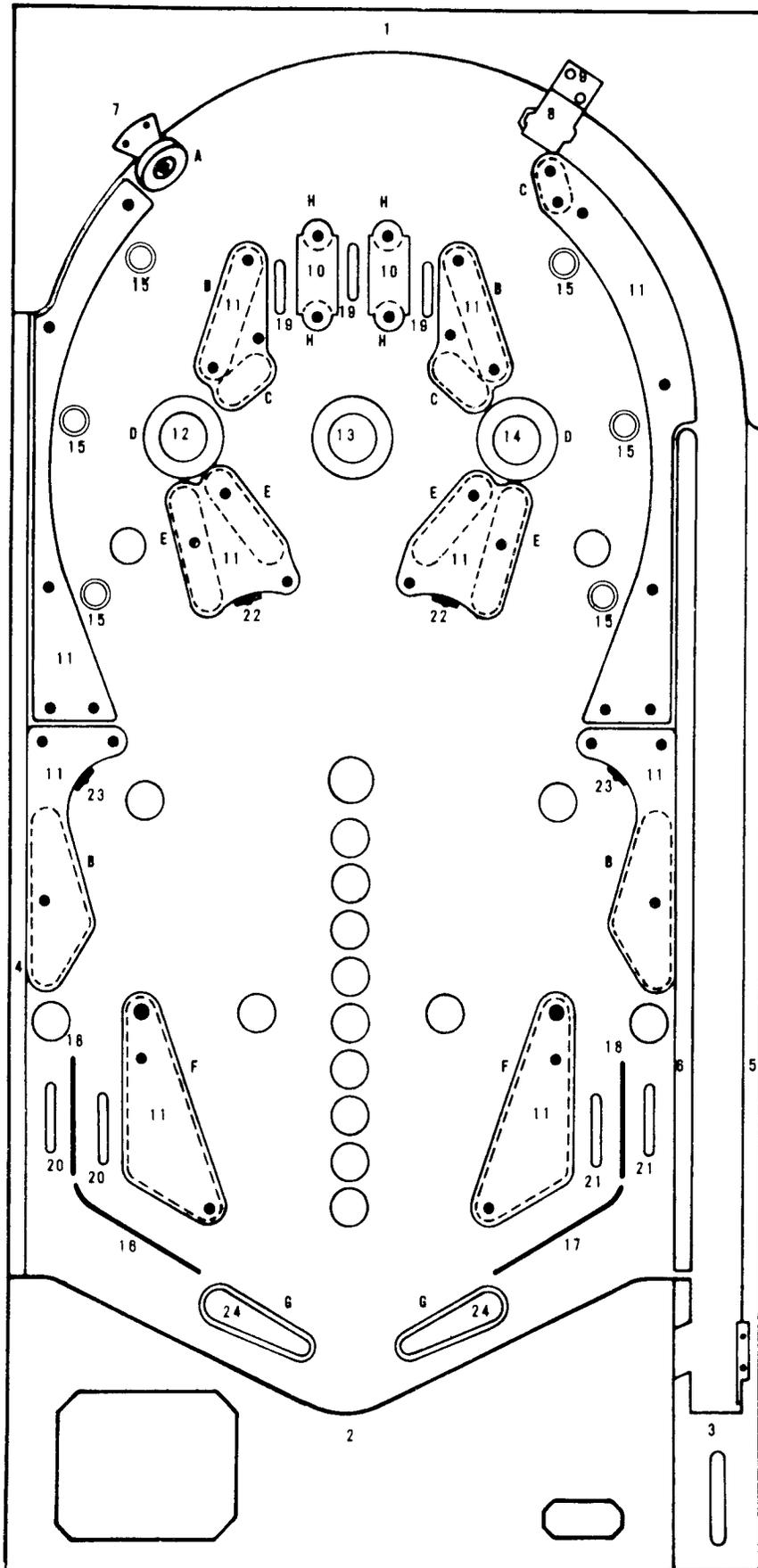
- 23 Target Assy. .... AS-982-723  
As detailed, item 22, page 125
- 24 Target Assy. .... AS-982-752  
As detailed, item 23, page 125
- 25 Ball Gate Assy. .... AS-2250-11  
As detailed, item 21, page 128
- 26 Flipper & Pin ..... AS-2214-19

Details of Flipper Units:

Page 175

- INDICATES MOVEABLE POST  
FOR SCORING ADJUSTMENT

# CIRCUS, BIG SHOW Playfield Chart



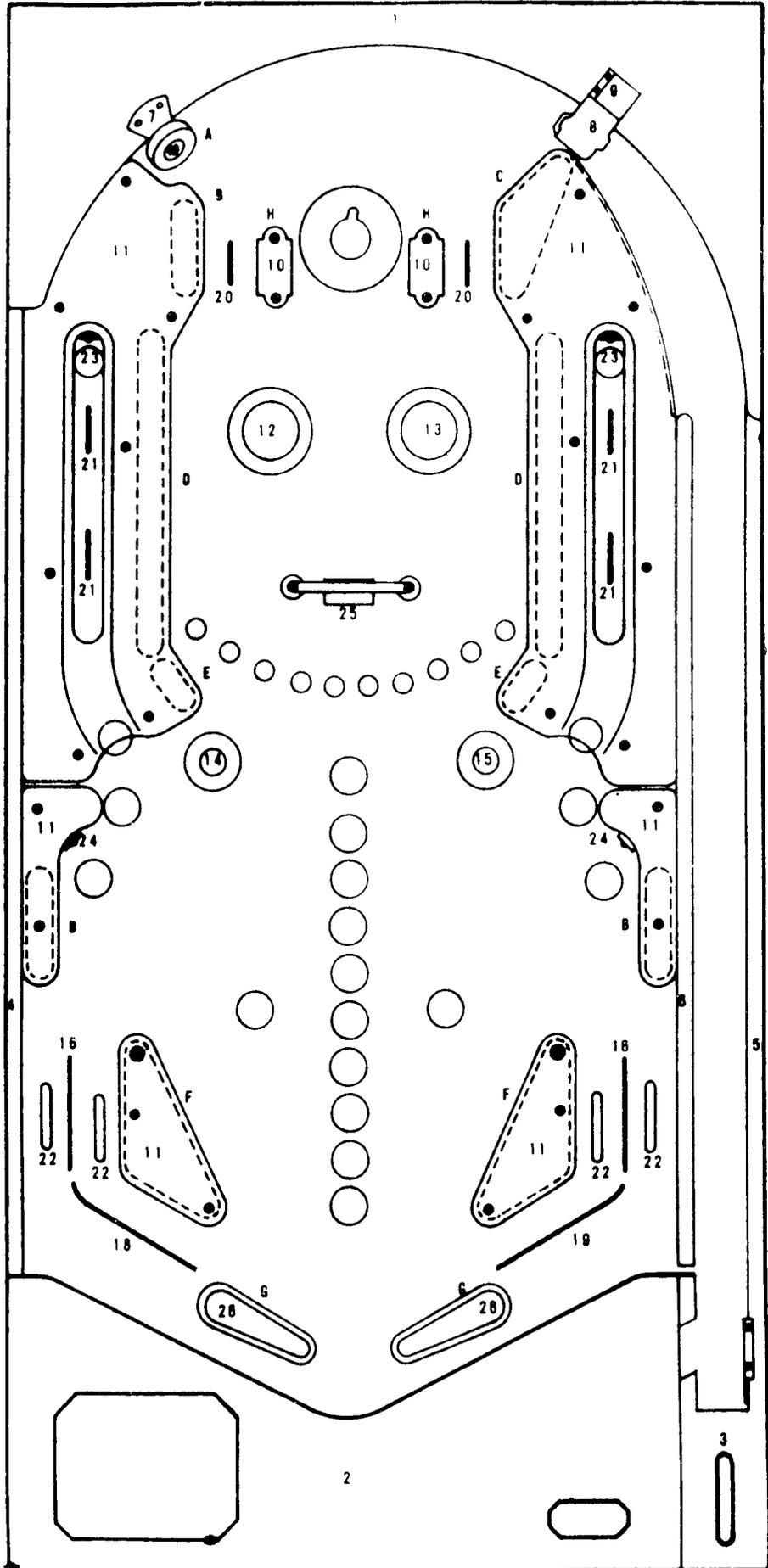
## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4, Rebound
  - B R-521-3, 2 in. (4)
  - C R-521, 3/4 in. (3)
  - D R-521-1, 1 in. (2)
  - E R-521-2, 1-1/2 in. (4)
  - F R-521-5, 3 in. (2)
  - G R-406-3, Flipper (2)
  - H R-243, 5/16 in. (10)
- 1 Top Arch ..... P-5839-53
  - 2 Bottom Arch ..... P-5871-38
  - 3 Shooter Gauge ..... P-6359-10
  - 4 Side Rail, left ..... CA-1208-2
  - 5 Side Rail, right ..... CA-1208-1
  - 6 Inside Rail ..... CA-1208-14
  - 7 Rebound Assy ..... AS-493-3  
Detailed, item 8, page 125
  - 8 Ball Gate ..... A-1475-1
  - 9 Ball Gate Cover ..... P-2896-5
  - 10 Plastic Ball Guide (2) ..... C-695-1
  - 11 Light Shields, set ..... A-2890-91
  - 12 Bumper Cap, red ..... A-3738-1  
For components related to item 12,  
see item 14 below
  - 13 Thumper Bumper Cap, green. A-3713-15  
Details of Thumper Bumper Assys.,  
page 167
  - 14 Bumper Cap, orange ..... A-3738-2  
Bumper Assy.,  
on which items 12, 14  
are used ..... AS-2222-5  
Base ..... C-115-1  
Body ..... C-114  
Rubber Ring ..... R-521-1  
Skirt ..... C-116-3  
Spring ..... SP-200-177  
Components used with above Assy.,  
but not included in the Assy.  
Lamp ..... E-125-22  
Lamp Socket ..... E-120-25  
Switch & Bracket Assy AS-982-902  
Bracket ..... P-126-29  
Switch ..... ASW-A1-89  
Switch Plate,  
Flat ..... P-126-154  
Spring ..... P-137-5  
Switch Screw (2) ..... MSSR-00540-1108
  - 15 Rollover Button (6) ..... C-387-5  
For components used with item 15  
see item 14, page 127
  - 16 Ball Guide Wire ..... M-121-43
  - 17 Ball Guide Wire ..... M-121-44
  - 18 Ball Guide Wire (2) ..... M-121-45
  - 19 Rollover Wire (3) ..... M-1336-10
  - 20 Rollover Wire (2) ..... M-1336
  - 21 Rollover Wire (2) ..... M-1336-1
  - 22 Target Assy. (2) ..... AS-982-807  
Bracket ..... P-126-471  
Switch Assy ..... A-3359-8  
Switch Plate,  
Flat ..... P-126-155  
Spring ..... P-137-5  
Switch Screw ..... MSSR-00540-1111
  - 23 Target Assy. (2) ..... AS-982-818  
Same as Item 22, above, excepting  
Switch Assy ..... A-3359-7  
Switch Screw (2) ..... MSSR-00540-1110
  - 24 Flipper (2) ..... C-611-5  
Details of Flipper Units,  
page 175

● INDICATES MOVEABLE POSTS  
FOR SCORING ADJUSTMENTS

# CHAMP Playfield Chart



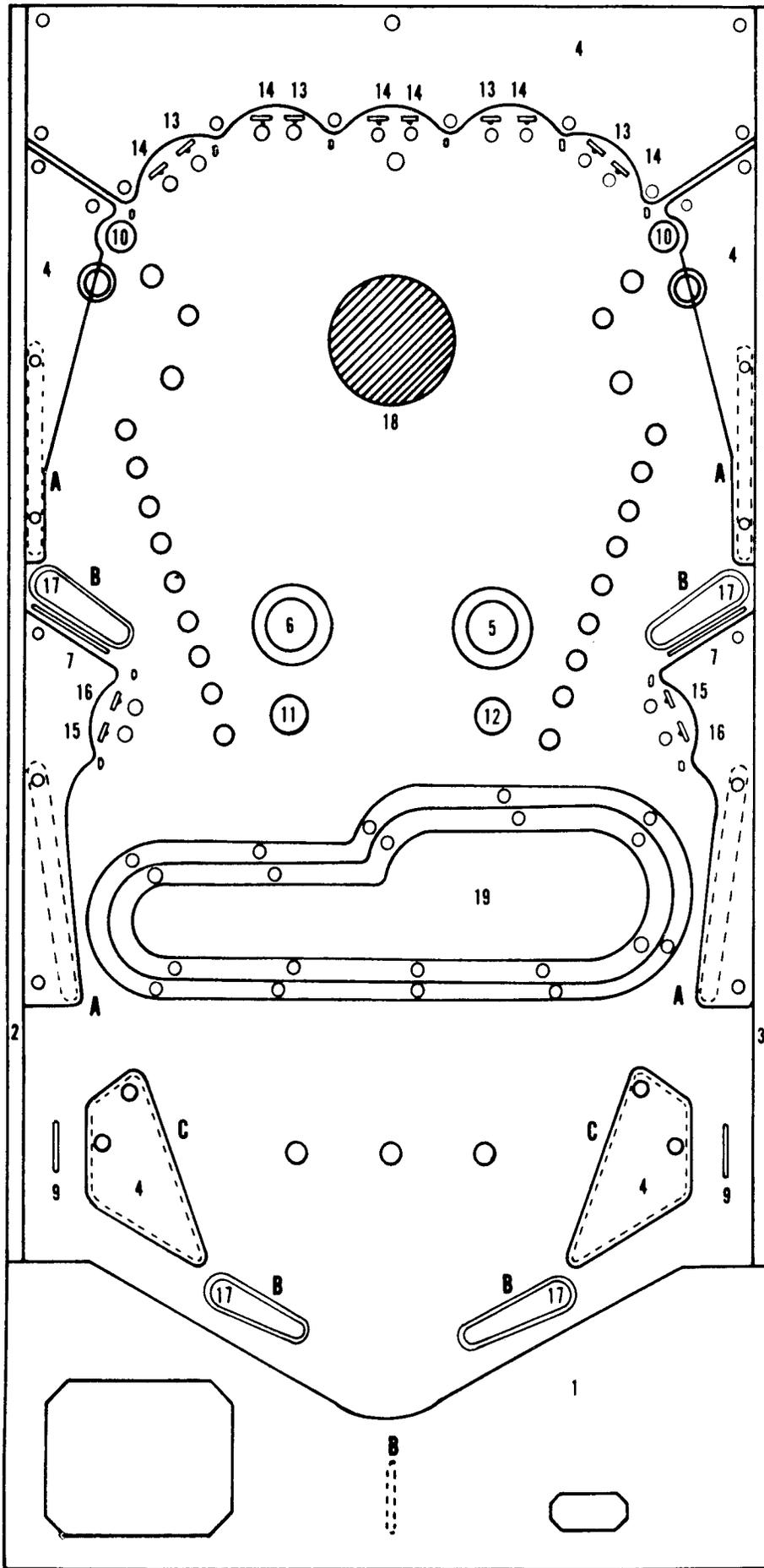
- A R-115-4 (Rebound)
- B R-521-1, 1 in. (3)
- C R-521-2, 1 1/2 in.
- D R-521-8, 4 1/2 in. (2)
- E R-521, 1/4 in. (2)
- F R-521-4, 2 1/2 in. (2)
- G R-408-3 (Flipper) (2)
- H R-243, 5/16 in. (10)

## OTHER PARTS

- 1 Top Arch ..... P-5839-65
- 2 Bottom Arch ..... P-5871-38
- 3 Shooter Gauge ..... P-6359-10
- 4 Side Rail, Left ..... CA-1208-2
- 5 Side Rail, Right ..... CA-1208-1
- 6 Inside Rail ..... CA-1208-14
- 7 Rebound Assy. .... AS-493-3  
Detailed, Item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Plastic Guide Rail ..... C-694-1
- 11 Light Shields (set) ..... A-2890-94
- 12 Bumper Cap, Yellow ..... A-3713-12
- 13 Bumper Cap, Green ..... A-3713-8  
Details of Bumper Assys., page 167
- 14 Mushroom Bumper  
Yellow ..... AS-2291-22  
Bumper Rubber ..... R-392  
Cap & Plunger Assy. ... A-3712-12  
Eyelet ..... M-122-13  
Post ..... C-617-8  
Push-on Fastener ..... M-298-9  
Spring, Compression ... SP-200-162
- 15 Mushroom Bumper, Green AS-2291-21  
Same as AS-2291-22, above, excepting  
Cap & Plunger Assy. ... A-3712-11
- PARTS RELATED TO ITEMS 14, 15
- Pal Nut ..... M-1314-2
- Switch ..... ASW-A20-9
- 16 Ball Guide Wire (2) ..... M-121-18
- 17 Ball Guide Wire ..... M-121-26
- 18 Ball Guide Wire ..... M-121-43
- 19 Ball Guide Wire ..... M-121-44
- 20 Rollover Wire (2) ..... M-1336-9
- 21 Rollover Wire (4) ..... M-1336-16
- 22 Rollover Wire (4) ..... M-1336-1
- PARTS RELATED TO  
ITEMS 20, 21, 22
- Brackets: see page 191
- Switch,  
Make ..... ASW-A1-5  
Make-Make ..... ASW-A11-2
- 23 Target Assy., Red ..... AS-989-699  
Detailed, item 28, page 126
- 24 Target Assy., White ..... AS-982-995  
Bracket ..... P-126-471  
Plate ..... P-126-155  
Switch Plate ..... P-137-5  
Switch Screw (2) ... MSSR-00540-1110  
Target Switch Assy. ... A-3359-12
- 25 Spinner Gate Assy ..... AS-2250-32  
Bracket ..... P-5867-10  
Spinner Assy ..... A-3460-1  
Washer, Nylon (2) ... P-801-583  
Wire ..... M-1272-31  
Switch used with Spinner  
Gate ..... ASW-A1-118
- Spinner Unit (Light Flash):  
see page 109
- 26 Flipper & Pin Assy. .... AS-2214-19  
Details of Flipper Assys.  
appear on page 175

● INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# TWIN WIN Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

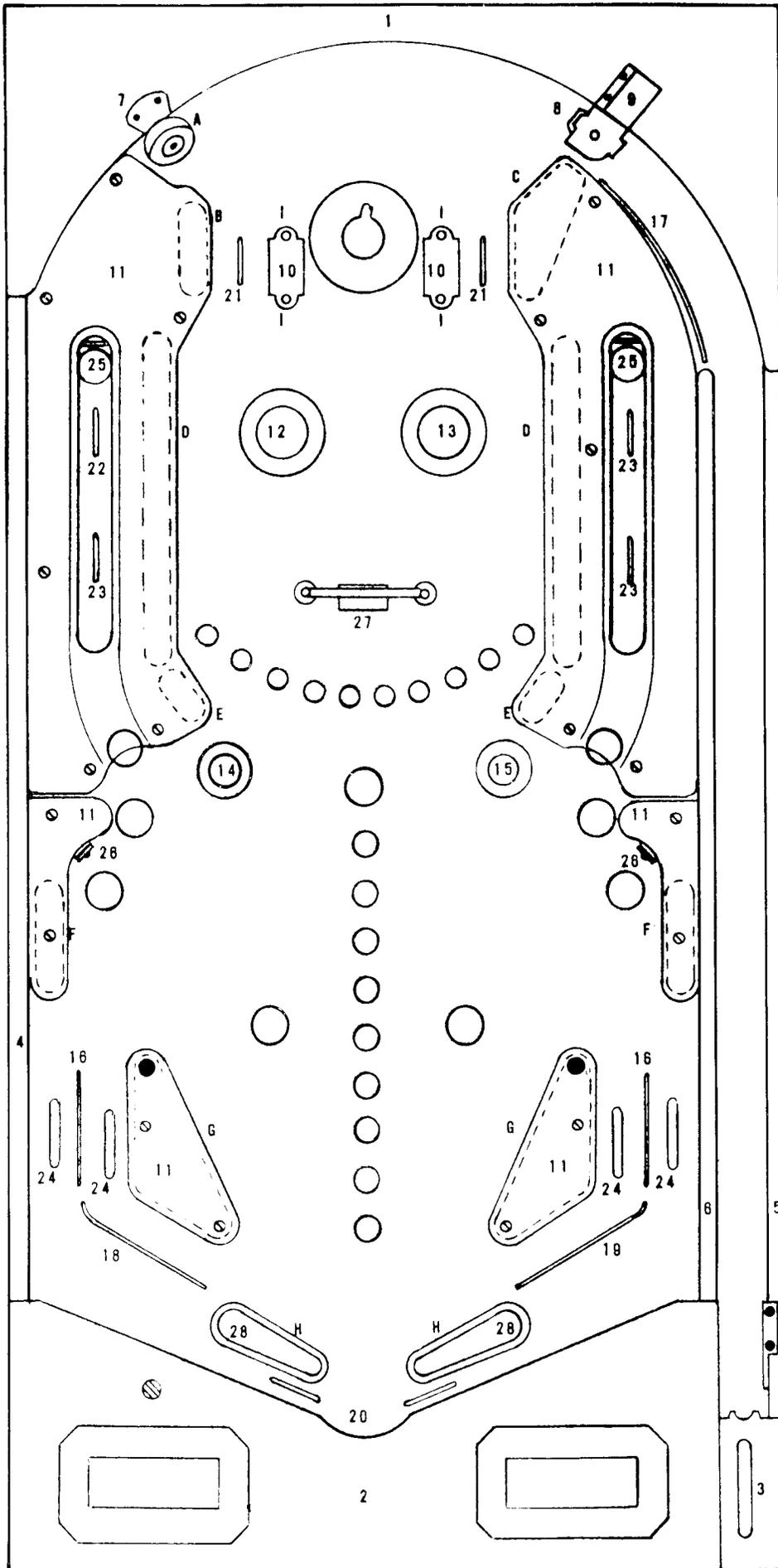
- A R-521-4, 2½ in. (4)
- B R-406-3 (Flipper) (4)
- C R-521-6, 3½ in. (2)
- D R-243, 5/16 in. (12)

## OTHER PARTS

- 1 Bottom Arch . . . . . P-5871-46
- 2 Side Rail, left . . . . . CA-1208-11
- 3 Side Rail, right . . . . . CA-1208-11
- 4 Light Shields (set) . . . . . A-2690-96
- 5 Bumper Cap, green . . . . . A-3713-8
- 6 Bumper Cap, yellow . . . . . A-3713-12
- Details of Thumper Bumper Assys.  
appear on page 167
- 7 Ball Guide Wire . . . . . M-121-29
- 8 Rollover Wire . . . . . M-1336-18
- 9 Rollover Wire . . . . . M-1336-3
- 10 Mushroom Bumper Assy.,  
red . . . . . AS-2291-1  
Cap & Plunger, red . . . . . C-616-1  
Eyelet . . . . . M-122-13  
Post . . . . . C-617-7  
Retaining Ring . . . . . P-2881-4  
Rubber Ring . . . . . R-392  
Spring, Compression . . . . . SP-100-162
- 11 Mushroom Bumper Assy.,  
green . . . . . AS-2291-4  
Detailed, item 23, page 128
- 12 Mushroom Bumper Assy.,  
yellow . . . . . AS-2291  
Detailed, item 22, page 126
- 13 Target Assy., red . . . . . AS-982-699  
Detailed, Item 28, page 128
- 14 Target Assy., white . . . . . AS-982-792  
Bracket . . . . . P-126-471  
Plate . . . . . P-126-155  
Switch Plate . . . . . P-137-5  
Switch Screw . . . . . MSSR-00540-1110  
Target Switch . . . . . A-3359-7
- 15 Target Assy., yellow . . . . . AS-982-812  
Bracket . . . . . P-126-471  
Plate . . . . . P-126-155  
Switch Plate . . . . . P-137-5  
Switch Screw . . . . . MS-540-10-110  
Target Switch Assy. . . . . A-3359-3
- 16 Target Assy. . . . . AS-982-1004  
Same as item 14, above, excepting  
Target Switch . . . . . A-3359-10
- 17 Flipper, white (4) . . . . . AS-2214-19  
Details of Flipper Units,  
page 175
- 18 Rubber Disc Assy . . . . . AS-2898-1  
Details of Spinner Unit,  
page 193
- 19 REFERENCE ONLY  
Details of Car-Race Unit,  
page 109

○ INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# SKY KINGS Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-1, 1 in.
- C R-521-2, 1½ in.
- D R-521-6, ¾ in. (2)
- E R-521, ¾ in. (2)
- F R-521-3, 2 in. (2)
- G R-521-4, 2½ in. (2)
- H R-406-3 (Flipper) (2)
- I R-243, 5/16 in. (1)

## OTHER PARTS

- 1 Top Arch ..... P-5839-65
- 2 Bottom Arch ..... P-5871-45
- 3 Shooter Gauge ..... P-6359-12
- 4 Side Rail, left ..... CA-1208-23
- 5 Side Rail, right ..... CA-1208-22
- 6 Inside Rail ..... CA-1208-26
- 7 Rebound Assy. .... AS-493-3  
Detailed, item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2896-5
- 10 Plastic Guide ..... C-694-1
- 11 Light Shields (set) ..... A-2890-89
- 12 Bumper Cap, yellow ..... A-3713-12
- 13 Bumper Cap, green ..... A-3713-8

Details of Bumper Assys, page 167

- 14 Mushroom Bumper, yellow AS-2291-22  
Detailed, item 14, page 138
- 15 Mushroom Bumper, green AS-2291-21  
Detailed, item 15, page 138

### PARTS RELATED TO ITEMS 14, 15

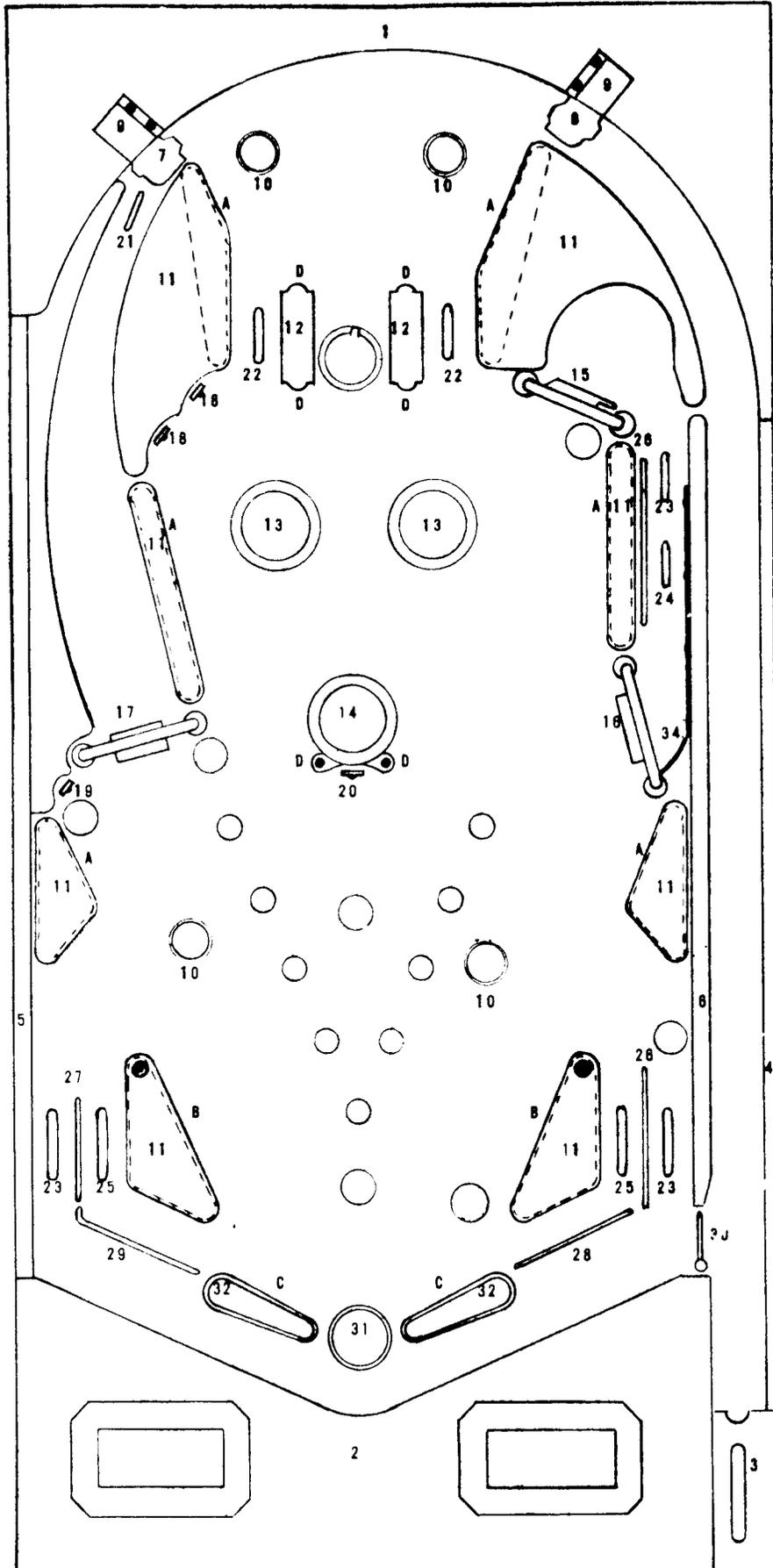
- Pal Nut ..... M-1314-1
- Switch ..... ASW-A20-9
- 16 Ball Guide Wire (2) ..... M-121-18
- 17 Ball Guide Wire ..... M-121-28
- 18 Ball Guide Wire ..... M-121-43
- 19 Ball Guide Wire ..... M-121-44
- 20 Ball Guide Wire (2) ..... M-121-53
- 21 Rollover Wire (2) ..... M-1336-9
- 22 Rollover Wire ..... M-1336-15
- 23 Rollover Wire (3) ..... M-1336-16
- 24 Rollover Wire (4) ..... M-1336-1

### PARTS RELATED TO ITEMS 21, 22, 23, 24

- Bracket: see page 191
- Switch,
  - Make ..... ASW-A1-5
  - Make-Make ..... ASW-A11-2
- 25 Target Assy. .... AS-982-699  
Detailed, item 28, page 128
- 26 Target Assy. .... AS-982-995  
Detailed, item 24, page 138
- 27 Spinner Gate Assy. .... AS-2250-32  
Detailed, item 25, page 138
- Switch
  - Used with item 27 ... ASW-A1-118
- Spinner Unit (Light Flash):  
See page 109
- 28 Flipper & Pin Assy. (2) ... AS-2214-19  
Details of Flipper Assys.  
appear on page 175

• INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# AMIGO Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parantheses indicate quantity used, if in excess of one.

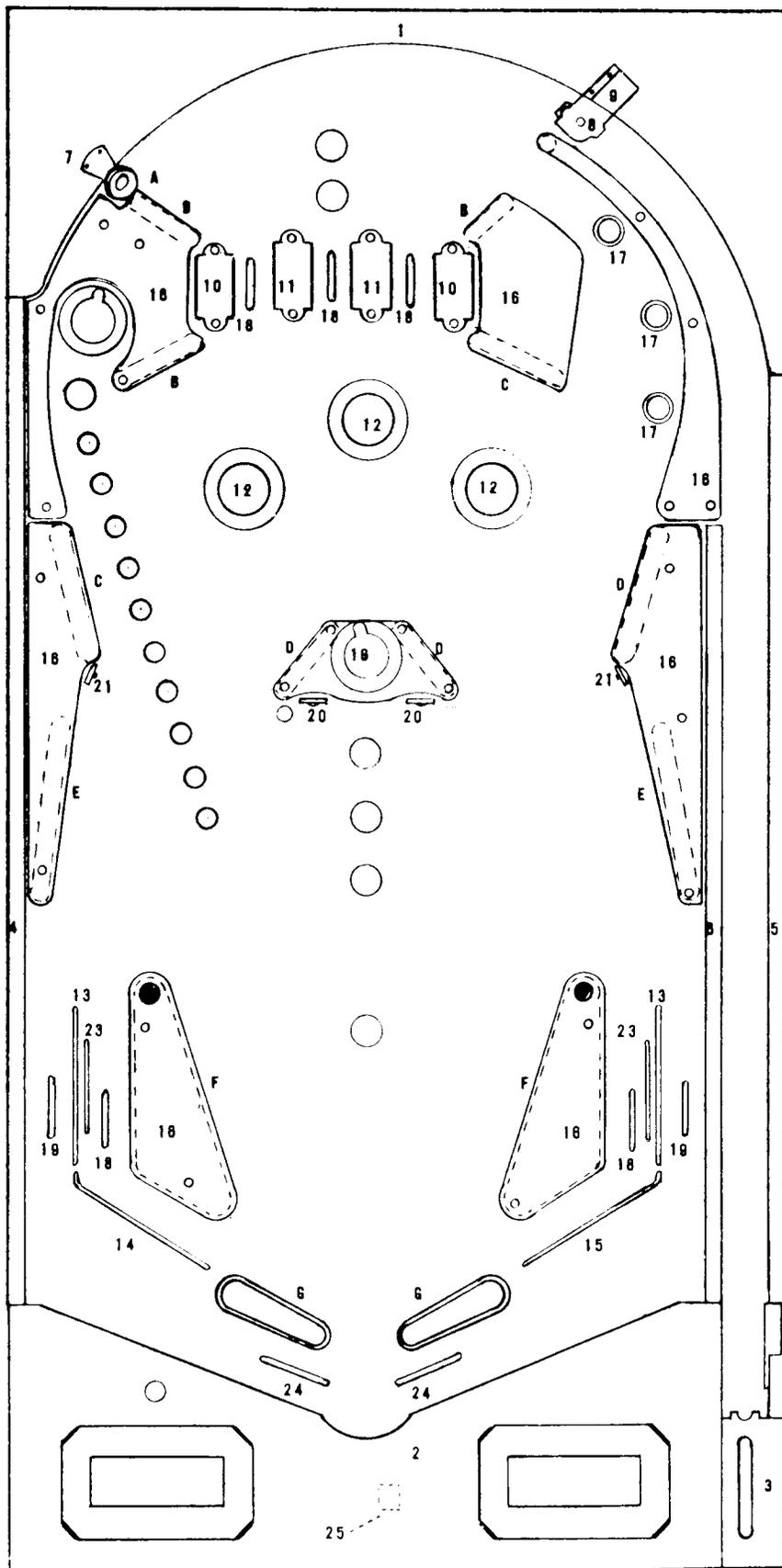
- A R-521-4, 2½ in. (8)
- B R-521-6, 3½ in. (2)
- C R-406-3 (Flipper) (2)
- D R-243, 15/16 in. (15)

## OTHER PARTS

- 1 Top Arch ..... P-5839-67
- 2 Bottom Arch ..... P-5871-45
- 3 Shooter Gauge ..... P-6359-12
- 4 Side Rail, right ..... CA-1208-22
- 5 Side Rail, left ..... CA-1208-23
- 6 Inner Rail ..... CA-1208-21
- 7 Ball Gate, left ..... A-1475-4
- 8 Ball Gate, right ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Rollover Button (4) ..... C-387-5
- For components used with item 10 see item 14, page 127
- 11 Light Shields (set) ..... A-2890-93
- 12 Guide Rail, red ..... C-702-1
- 13 Bumper Cap, blue ..... A-3713-11
- 14 Bumper Cap, yellow ..... A-3713-12
- Details of Bumper Assys., page 167
- 15 Gate & Wire Assy. .... AS-2250-25
- As detailed, item 25, page 126
- 16 Gate & Wire Assy. .... AS-2250-24
- As detailed, item 23, page 129
- 17 Spinner Gate Assy. .... AS-2250-33
- Same as item 25, page 138
- excepting
- Spinner Assy. .... A-3460-2
- Switch used with
- Spinner Gate ..... ASW-A1-118
- 18 Target Assy. (2) ..... AS-982-723
- Detailed, item 22, page 125
- 19 Target Assy. .... AS-982-740
- Same as item 18 above, except
- Target Switch Assy. .... A-3395-3
- Detailed, item 13, page 185
- 20 Target Assy. .... AS-982-752
- Detailed, item 13, page 187
- 21 Rollover Wire ..... M-1336-18
- 22 Rollover Wire ..... M-1336-1
- 23 Rollover Wire ..... M-1336-2
- 24 Rollover Wire ..... M-1336-3
- 25 Rollover Wire ..... M-1336
- PARTS RELATED TO ITEMS 21-25:
- Brackets: see page 191
- Switch,
- Make ..... ASW-A1-5
- Make-Make ..... ASW-A11-2
- 26 Ball Guide Wire ..... M-121-23
- 27 Ball Guide Wire ..... M-121-47
- 28 Ball Guide Wire ..... M-121-18
- 29 Ball Guide Wire ..... M-121-43
- 30 Gate Wire ..... M-1335-1
- Details of Free Ball Gate appear on page 195
- 31 Bumper Post ..... C-810
- Details of Play-More Post appear on page 185
- 32 Flipper & Pin (2) ..... AS-2214-19
- Details of Flipper Units appear on page 175
- 33 Ball Return Wire (NOT SHOWN) ..... M-1336-19
- Guide Rail ..... P-6244-53

● INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# DELTA QUEEN Playfield Chart



## RUBBER PARTS

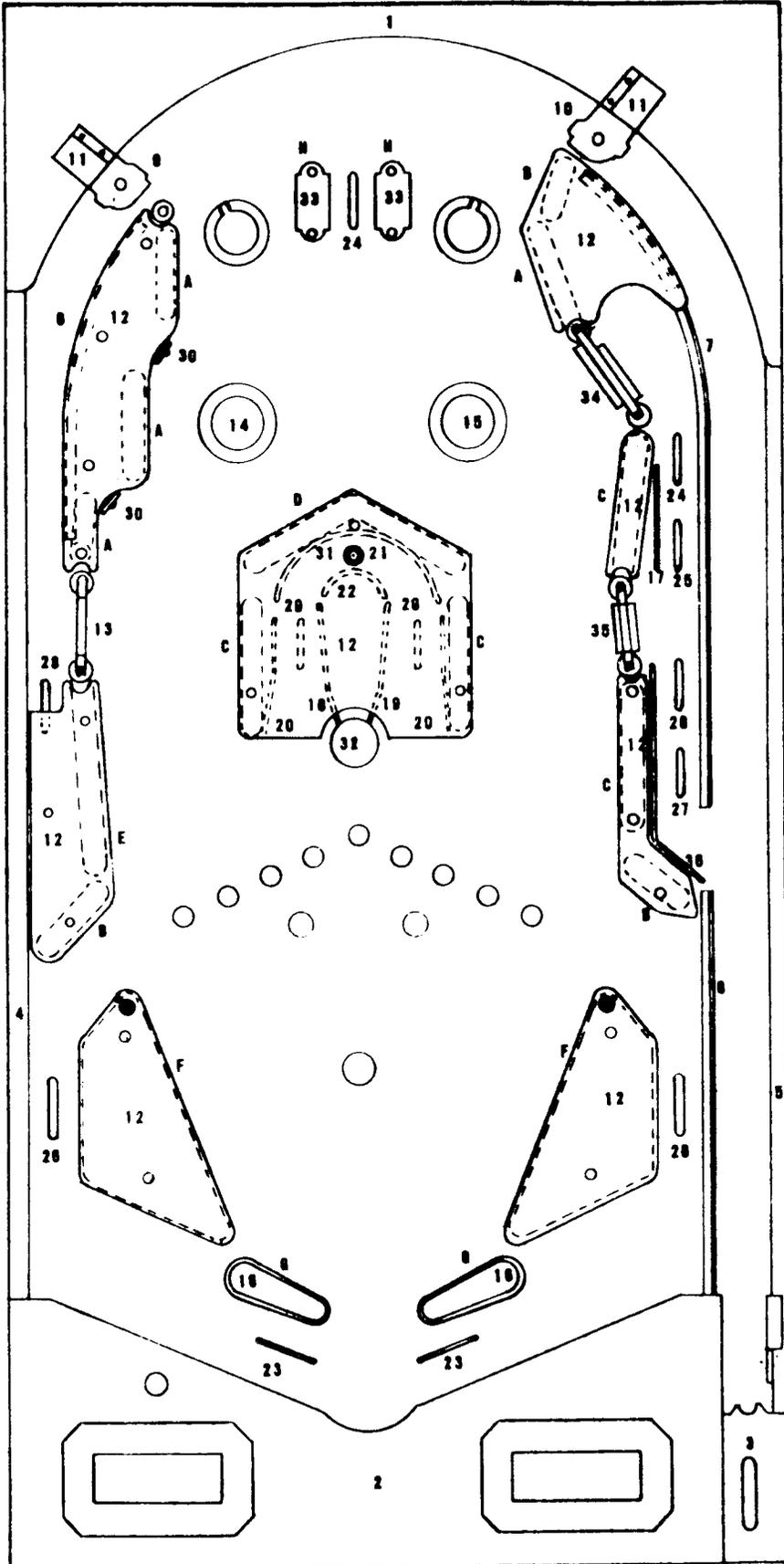
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-1, 1 in. (3)
- C R-521-3, 2 in. (2)
- D R-521-2, 1½ in. (3)
- E R-521-4, 2½ in. (2)
- F R-521-5, 3 in. (2)
- G R-406-3 (Flipper) (2)
- H R-243, 5/16 in. (9)

## OTHER PARTS

- 1 Top Arch ..... P-5839-57
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail, left ..... CA-1208-24
- 5 Side Rail, right ..... CA-1208-22
- 6 Inside Rail ..... CA-1208-25
- 7 Rebound Assy. .... AS-493-3  
Detailed, item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Ball Gate Cover ..... P-2996-5
- 10 Plastic Ball Guide ..... C-694-1
- 11 Plastic Ball Guide ..... C-693-1
- 12 Bumper Cap, Blue. .... A-3713-11  
Details of Thumper Bumper,  
page 167
- 13 Ball Guide Wire ..... M-121-18
- 14 Ball Guide Wire ..... M-121-43
- 15 Ball Guide Wire ..... M-121-44
- 16 Light Shields (set) ..... A-2890-97
- 17 Rollover Button ..... C-387-5
- Parts related to item 17:  
see item 14, page 127
- 18 Rollover Wire ..... M-1336-10
- 19 Rollover Wire ..... M-1336-2
- Parts related to items 18, 19:  
Bracket: page 191  
Switch,  
Make (5) ASW-A-1-5  
Make-Make (2) ASW-A-11-2
- 20 Target Assy. .... AS-982-752  
Detailed, item 23, page 125
- 21 Target Assy. .... AS-982-723  
Detailed, item 22, page 125
- 22 Flipper & Pin Assy. .... AS-2214-19  
Flipper units detailed  
on page 175
- 23 Ball Guide Wire (2) ..... M-121-24
- 24 Ball Guide Wire (2) ..... M-121-53
- 25 Ball Return Wire ..... M-1338-21
- INDICATES MOVABLE POST  
FOR SCORING ADJUSTMENT

# ROGO Playfield Chart



## RUBBER PARTS

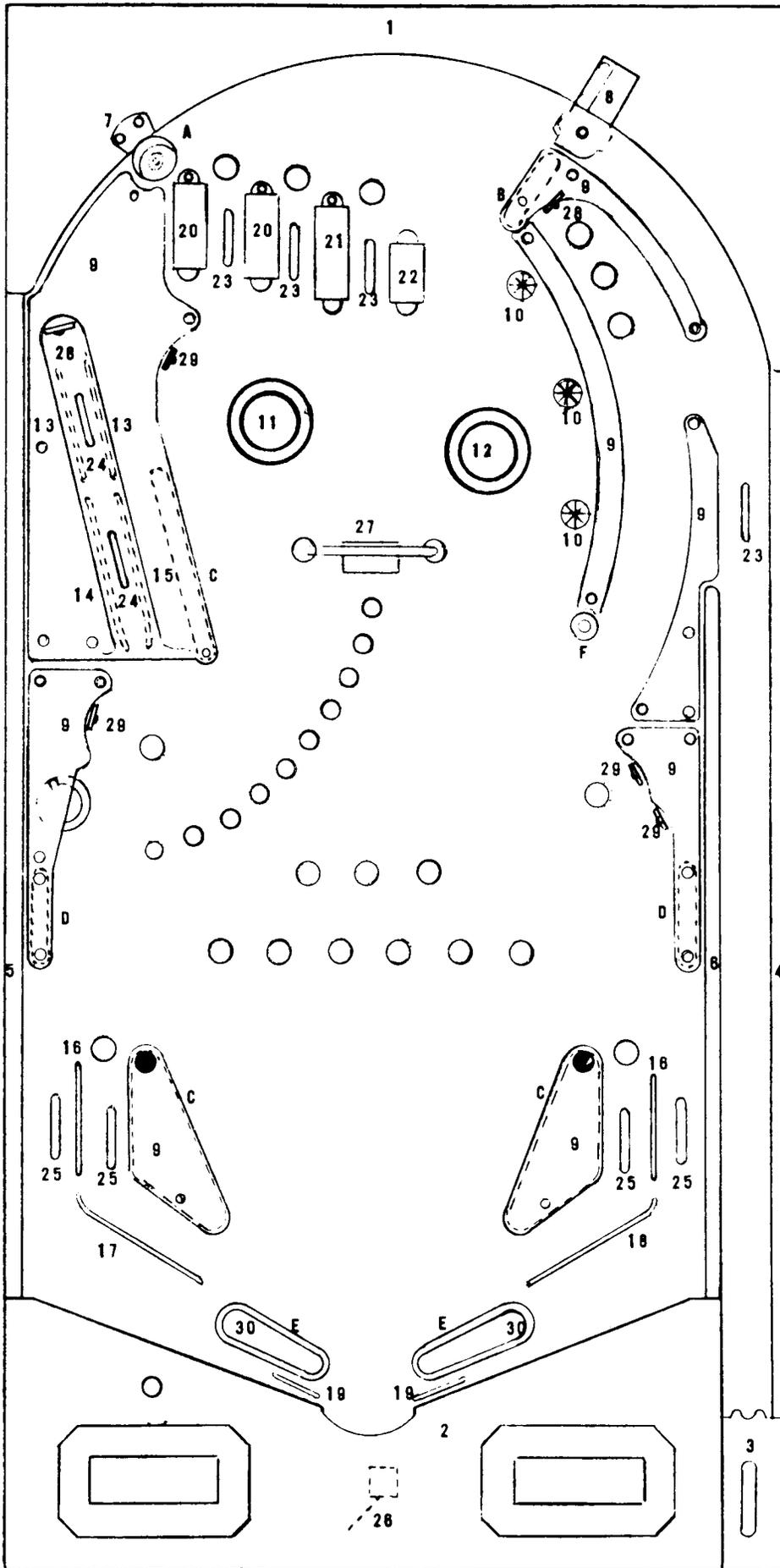
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-2, 1½ in. (4)
- B R-521-1, 1 in. (3)
- C R-521-3, 2 in. (4)
- D R-521-5, 3 in.
- E R-521-4, 2½ in.
- F R-521-6, 3½ in. (2)
- G R-406-3 (Flipper) (2)
- H R-243 (6)

## OTHER PARTS

- 1 Top Arch ..... P-5834-54
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail, left ..... CA-1208-23
- 5 Side Rail, right ..... CA-1208-22
- 6 Ball Guide ..... P-6495-85
- 7 Ball Guide ..... P-6495-64
- 8 Ball Guide ..... P-6495-75
- 9 Ball Gate, left ..... A-1475-5
- 10 Ball Gate, right ..... A-1475-1
- 11 Ball Gate Cover ..... P-2996-5
- 12 Light Shields (set) ..... A-2890-98
- 13 Gate ..... P-5887-2
- 14 Bumper Cap, blue ..... A-3713-11
- 15 Bumper Cap, red ..... A-3713-7
- Bumper detailed, page 167
- 16 Flipper & Pin Assy. .... AS-2214-19
- Flipper detailed, page 175
- 17 Ball Guide Wire ..... M-121-18
- 18 Ball Guide Wire ..... M-121-48
- 19 Ball Guide Wire ..... M-121-49
- 20 Ball Guide Wire (2) ..... M-121-50
- 21 Ball Guide Wire ..... M-121-51
- 22 Ball Guide Wire ..... M-121-52
- 23 Ball Guide Wire (2) ..... M-121-53
- 24 Rollover Wire (2) ..... M-1336-9
- 25 Rollover Wire ..... M-1336-10
- 26 Rollover Wire (3) ..... M-1336-2
- 28 Rollover Wire ..... M-1336-18
- 29 Rollover Wire ..... M-1336-19
- Parts related to items 24-29:
- Bracket: page 191
- Switch
- Make ..... ASW-A1-5
- Make Before Break ASW-A12-3
- Switch Plate ..... P-137-5
- 30 Target Assy. .... AS-982-723
- Detailed, item 22, page 125
- 31 Rollover Button ..... C-387-6
- Parts related to item 31:
- see item 14, page 127
- 32 Mushroom Bumper ..... AS-2291-1
- Detailed, item 10, page 139
- 33 Plastic Guide (2) ..... C-895-1
- 34 Gate & Wire Assy. .... AS-2250-28
- Detailed, item 19, page 132
- 35 Gate & Wire Assy. .... AS-2250-4
- Detailed, item 23, page 131
- 36 Ball Guide Wire ..... M-121-28
- INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# BON VOYAGE Playfield Chart



## RUBBER PARTS

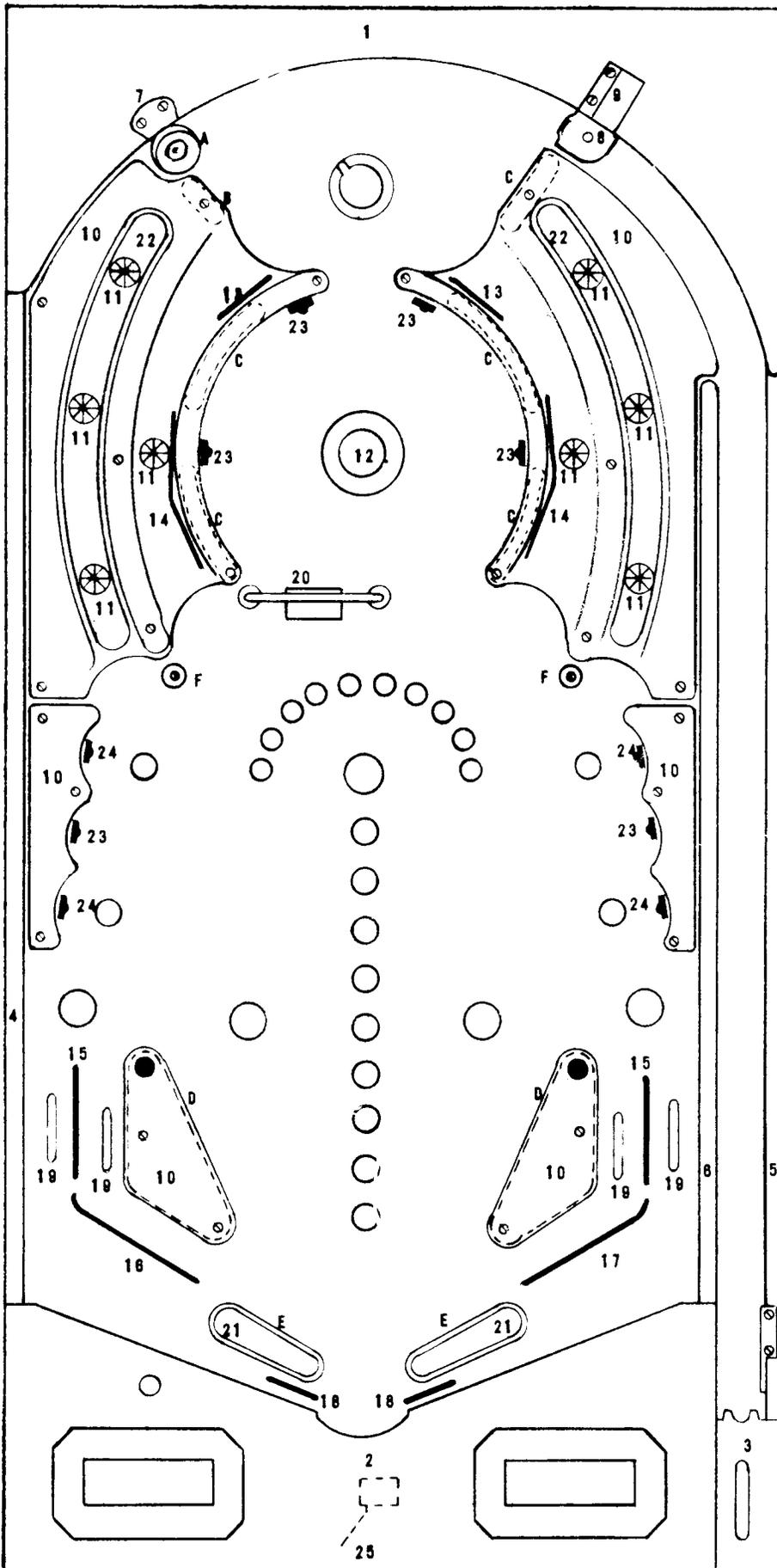
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-1, 1 in.
- C R-521-4, 2½ in. (3)
- D R-521-2, 1½ in. (2)
- E R-406-3 (Flipper) (2)
- F R-243, 5/16 in. (19)

## OTHER PARTS

- 1 Top Arch ..... P-5839-89
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail ..... P-6359-22
- 5 Side Rail ..... P-6359-24
- 6 Inside Rail ..... CA-1208-27
- 7 Rebound Assy. .... AS-493-3
- Detailed item 8, page 125**
- 8 Ball Gate ..... A-1475-1
- 9 Light Shields (set) ..... A-2890-106
- 10 Rollover Button ..... C-900
- Switch used with item 10. ASW-A1-122**
- 11 Bumper Cap, yellow ..... A-3713-12
- 12 Bumper Cap, green ..... A-3713-8
- Details of Thumper Bumper Assys.,**  
     **page 167**
- 13 Guide Wire (2) ..... M-121-30
- 14 Guide Wire ..... M-121-48
- 15 Guide Wire ..... M-121-49
- 16 Guide Wire (2) ..... M-121-45
- 17 Guide Wire ..... M-121-43
- 18 Guide Wire ..... M-121-44
- 19 Guide Wire (2) ..... M-121-53
- 20 Guide Rail (2) ..... C-695-1
- 21 Guide Rail (1) ..... C-702-1
- 22 Guide Rail (1) ..... C-893-1
- 23 Rollover Wire (4) ..... M-1336-10
- 24 Rollover Wire (2) ..... M-1336-15
- 25 Rollover Wire (4) ..... M-1336
- Parts related to items 23-25:**  
     Bracket ..... P-6254
- Switch,**  
     (10 used) ..... ASW-A1-5  
     (5 used) ..... ASW-A1-29
- 26 Ball Return Wire ..... M-1336-21
- Parts related to item 26:**  
     Bracket ..... P-6254-1
- Switch** ..... ASW-A1-113
- 27 Spinner Gate Assy. .... AS-2250-32
- Detailed, with related parts,**  
     **item 25, page 138**
- 28 Target & Switch Assy. .... AS-982-699
- Detailed, item 28, page 128**
- 29 Target & Switch Assy. .... AS-982-752
- Detailed, item 23, page 125**
- 30 Flipper & Pin Assy. .... AS-2214-19
- Flipper Assys.  
     **detailed, page 175**
- INDICATES MOVABLE POST  
   FOR SCORING ADJUSTMENT

# BOOMERANG, FLICKER Playfield Chart



## RUBBER PARTS

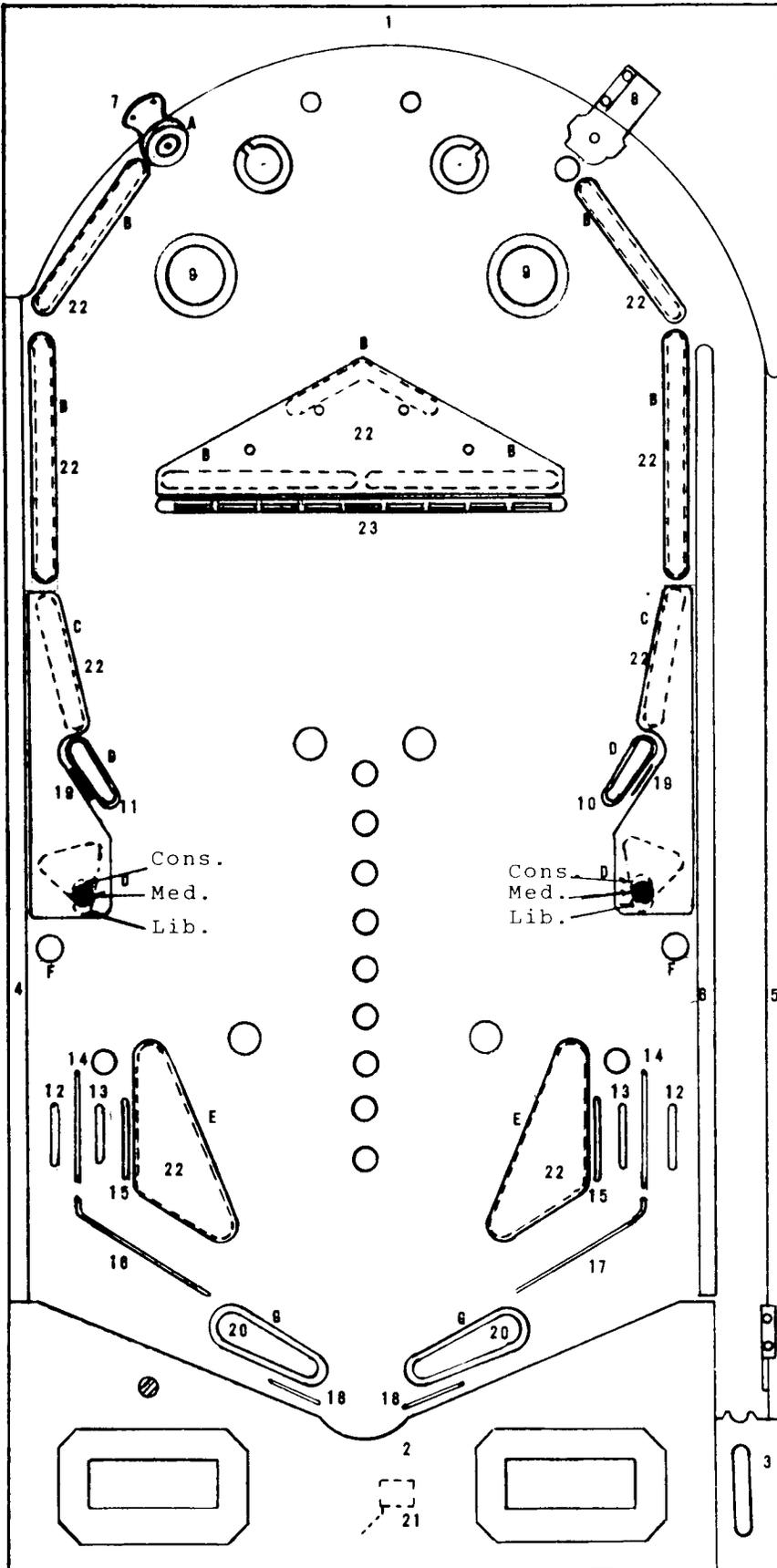
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-1, 1 in.
- C R-521-2, 1½ in. (5)
- D R-521-5, 3 in. (2)
- E R-406-3 (Flipper) (2)
- F R-243, 5/16 in. (15)

## OTHER PARTS

- 1 Top Arch ..... P-5839-88
  - 2 Bottom Arch ..... P-5871-47
  - 3 Shooter Gauge ..... P-6359-13
  - 4 Side Rail ..... CA-1208-13
  - 5 Side Rail ..... CA-1208-22
  - 6 Inner Rail ..... CA-1208-14
  - 7 Rebound Assy. .... AS-493-3  
Detailed, item 8, page 125
  - 8 Ball Gate ..... A-1475-1
  - 9 Ball Gate Cover ..... P-2996-5
  - 10 Light Shield (sets),  
**BOOMERANG,**  
Clear ..... A-2890-105  
Printed ..... A-2890-104  
**FLICKER**  
Clear ..... A-2890-101  
Printed ..... A-2890-102
  - 11 Rollover Button (8) .... C-900  
Parts used with item 11  
Lamp (No. 44) ..... E-125-22  
Lamp Socket ..... E-120-8  
Switch ..... ASW-A1-122
  - 12 Bumper Cap  
**BOOMERANG (Red) . . . . . A-3713-7**  
**FLICKER (Blue) . . . . . A-3713-11**  
**Thumper Bumper detail: page 167**
  - 13 Guide Wire (2) ..... M-121-24
  - 14 Guide Wire (2) ..... M-121-54
  - 15 Guide Wire (2) ..... M-121-18
  - 16 Guide Wire ..... M-121-43
  - 17 Guide Wire ..... M-121-44
  - 18 Guide Wire (2) ..... M-121-53
  - 19 Rollover Wire (4) ..... M-1336
  - 20 Spinner Gate Assy. .... AS-2250-32  
Detailed, item 25, page 138  
Switch used with item 20 . ASW-A1-118  
**Spinner Unit: page 109**
  - 21 Flipper & Pin Assy. .... AS-2214-19  
**Flipper Units, detailed: page 175**
  - 22 Target Assy., red ..... AS-982-699  
Detailed, item 28, page 128
  - 23 Target Assy., yellow .... AS-982-740  
Detailed, item 19, page 141
  - 24 Target Assy., white .... AS-982-806  
Bracket ..... P-126-471  
Plate ..... P-126-155  
Switch Plate ..... P-137-5  
Switch Screw. . . . . MSSR-00540-1111  
Target Switch Assy. . . . . A-3359-12
  - 25 Ball Return Wire ..... M-1336-1  
Switch used with item 25 . ASW-A1-113
- INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# AIR ACES Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

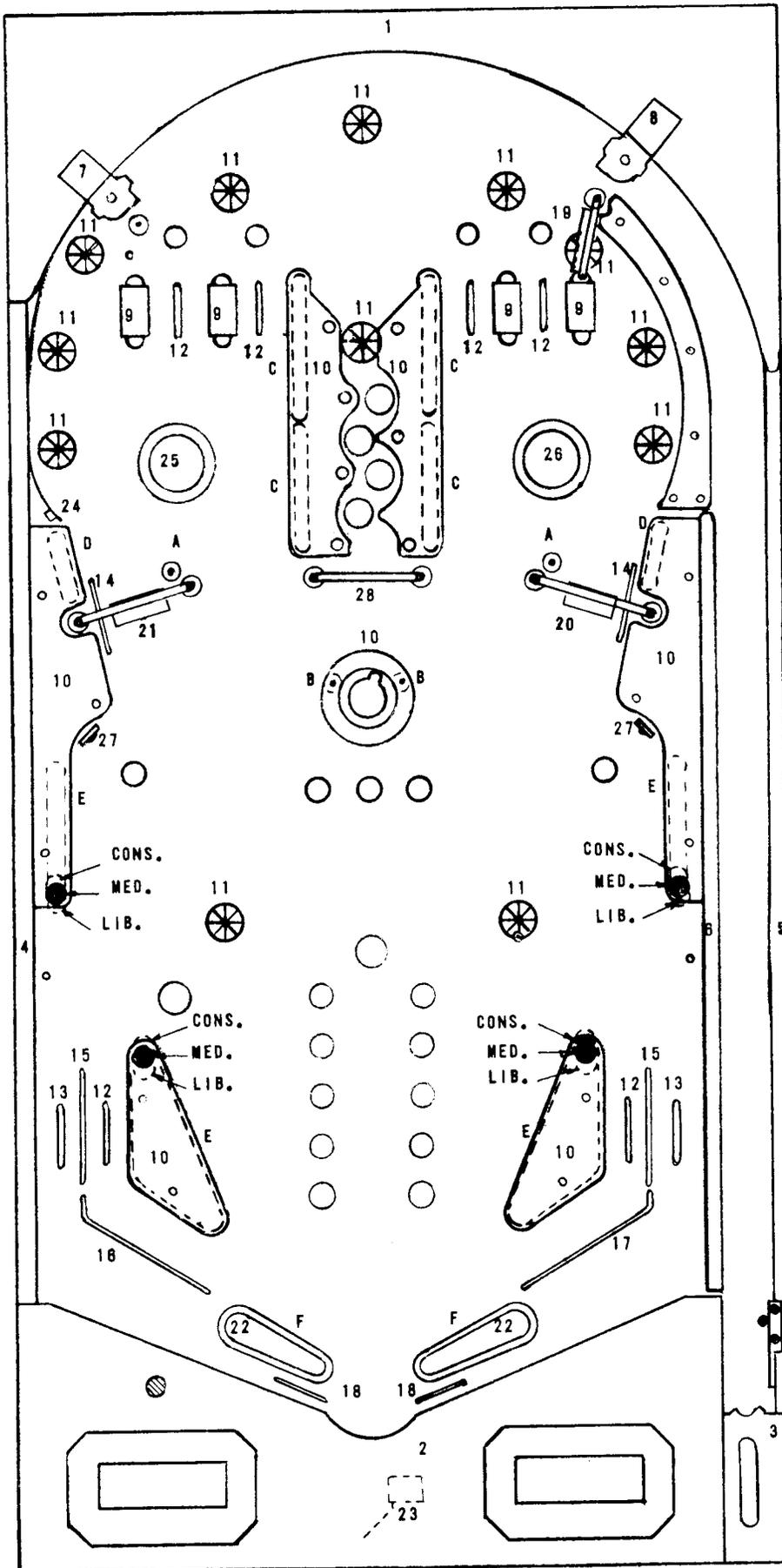
- A R 115-4 (Rebound)
- B R 521-4, 2 1/2 in. (7)
- C R 521-2, 1 1/2 in. (2)
- D R 521-1, 1 in. (6)
- E R-521-5, 3 in. (2)
- F R-243, 5/16 in. (3)
- G R 406-3 (Flipper) (2)

## OTHER PARTS

- 1 Top Arch ..... P-5839-70
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail, Left ..... CA-1208-24
- 5 Side Rail, Right ..... CA-1208-22
- 6 Inside Rail ..... CA-1208-26
- 7 Rebound Assy. .... AS-493-3  
Detailed, item 8, page 125
- 8 Ball Gate ..... A-1475-1
- 9 Bumper Cap ..... A-3713-16  
Details of Thumper Bumper, page 167
- 10 Flipper-Pin Assy., Right .. AS-2214-22
- 11 Flipper Pin Assy., Left ... AS-2214-23  
Flipper Units detailed, page 244
- 12 Rollover Wire Assy. (2) ... AS-2806-2  
Bracket ..... P-6254  
Wire ..... M-1336-2
- 13 Rollover Wire Assy. (2) ... AS-2806  
Bracket ..... P-6254  
Wire ..... M-1336
- 14 Guide Wire (2) ..... M-121-18
- 15 Guide Wire (2) ..... M-121-24
- 16 Guide Wire ..... M-121-43
- 17 Guide Wire ..... M-121-44
- 18 Guide Wire (2) ..... M-121-53
- 19 Guide Wire (2) ..... M-121-46
- 20 Flipper-Pin Assy. (2) .... AS-2714-21  
Flipper Units detailed, page 175
- 21 Return Wire Assy. .... AS-2806-21  
Bracket ..... P-6254-1  
Wire ..... M-1336-21
- 22 Plastic Shields (Set) .... A-2890-103
- 23 Drop Target Assy. .... AS-2795-9  
Detailed, page 171

● INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

# KNOCKOUT Playfield Chart



## RUBBER RINGS

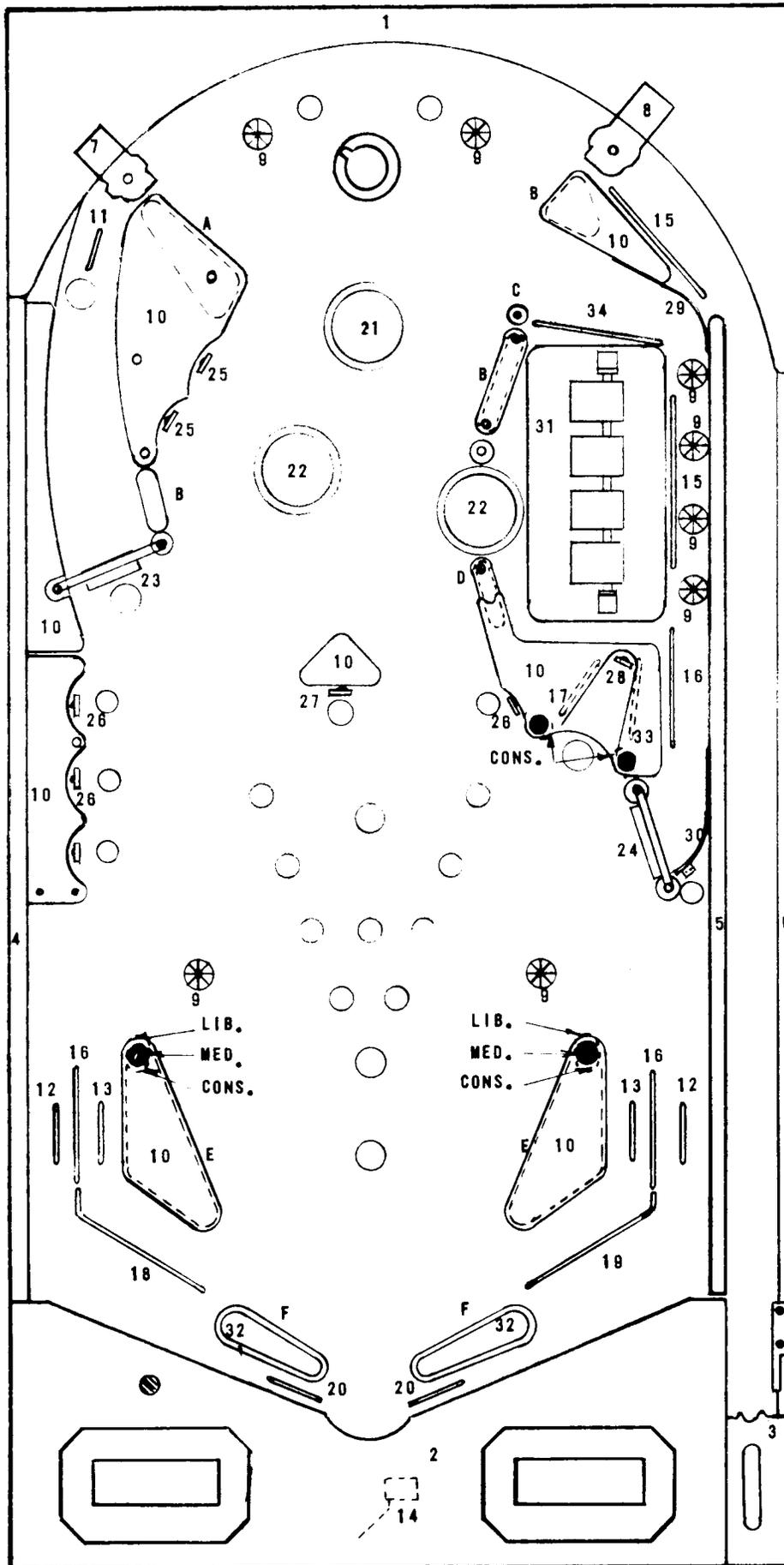
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R 243, 5/16 in. (20)
- B R-243-2, 5/16 in. (dead rubber) (2)
- C R-521-3, 2 in. (4)
- D R-521-1, 1 in. (2)
- E R-521-4, 2 1/2 in. (4)
- R R-406-3 (Flipper) (2)

## OTHER PARTS

- 1 Top Arch ..... P-5839-72
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail, left ..... CA-1208-15
- 5 Side Rail, right ..... CA-1208-22
- 6 Inner Rail ..... CA-1208-28
- 7 Ball Gate, left ..... A-1475-4
- 8 Ball Gate, right ..... A-1475-1
- 9 Plastic Guide (4) ..... C-893-1
- 10 Plastic Shields (set) ..... A-2800-108
- 11 Rollover Button (12) ..... C-900
- Parts used with item 11:
  - Lamp, No. 44 ..... E-125-22
  - Lamp Socket ..... E-120-99
  - Switch ..... ASW-A1-122
  - Switch Plate ..... P-137-5
  - Switch Stop Bracket ..... P-126-570
- 12 Rollover Wire Assy. (6) ..... AS-2806
- Detailed, item 13, page 146
- 13 Rollover Wire Assy. (2) ..... AS-2806-2
- Detailed, item 12, page 146
- 14 Guide Wire (2) ..... M-121-59
- 15 Guide Wire (2) ..... M-121-45
- 16 Guide Wire ..... M-121-43
- 17 Guide Wire ..... M-121-44
- 18 Guide Wire (2) ..... M-121-53
- 19 Gate & Wire Assy. ..... AS-2250-24
- Detailed, item 23, page 129
- 20 Spinner Gate Assy., right ..... AS-2250-34
- Bracket ..... P-5867-10
- Spinner Assy. ..... A-3460-1
- Washer, Nylon (2) ..... P-801-583
- Wire ..... M-1272-32
- Switch used with item 20 and item 21 ..... ASW-A1-130
- 21 Spinner Gate Assy., left ..... AS-2250-35
- Same as item 20, above, with vertical wire on opposite end of horizontal wire
- 22 Flipper & Pin Assy., (2) ..... AS-2214-21
- Flipper detail, page 175
- 23 Return Wire Assy. ..... AS-2806-21
- Detailed, item 21, page 146
- Ball Return Switch ..... ASW-A1-113
- 24 Guide Rail ..... A-3032-18
- 25 Bumper Cap, green ..... A-3713-8
- 26 Bumper Cap, red ..... A-3713-7
- Thumper Bumpers detailed, page 167
- 27 Target & Switch Assy. (2) ..... AS-982-723
- Detailed, item 22, page 125
- 28 Gate Bracket ..... P-5887-12
- INDICATES MOVABLE POST FOR PLAYFIELD ADJUSTMENT

# WIZARD Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-4, 2 1/2 in.
- B R-521-2, 1 1/2 in. (3)
- C R-243-2, 5/16 in. (dead rubber)
- D R-521-1, 1 in.
- E R-521-5, 3 in. (2)
- F R-406-3 (Flipper) (2)
- G R-243, 5/16 in.

## OTHER PARTS

- 1 Top Arch ..... P-5839-73
- 2 Bottom Arch ..... P-5871-47
- 3 Shooter Gauge ..... P-6359-13
- 4 Side Rail, left ..... CA-1208-24
- 5 Inside Rail ..... CA-1208-29
- 6 Side Rail, right ..... CA-1208-22
- 7 Ball Gate, left ..... A-1475-4
- 8 Ball Gate, right ..... A-1475-1
- 9 Rollover Button (8) ..... C-900

### Parts used with item 9:

see item 11, page 217

- 10 Plastic Shields (set) ..... A-2890-111
- 11 Rollover Wire Assy. (2) ..... AS-2806-16
- Bracket ..... P-6254-1
- Wire ..... M-1336-16

### Switch used with

items 11, 12, 13 ..... ASW-A-1-5

- 12 Rollover Wire Assy. (2) ..... AS-2806-2
- Detailed, item 12, page 146
- 13 Rollover Wire Assy. (2) ..... AS-2806
- Detailed, item 13, page 146
- 14 Return Wire Assy. ..... AS-2806-21
- Detailed, item 21, page 146

- 15 Ball Guide Wire (2) ..... M-121-33
- 16 Ball Guide Wire (3) ..... M-121-18
- 17 Ball Guide Wire ..... M-121-56
- 18 Ball Guide Wire ..... M-121-43
- 19 Ball Guide Wire ..... M-121-44
- 20 Ball Guide Wire (2) ..... M-121-53
- 21 Bumper Cap, red ..... A-3713-7
- 22 Bumper Cap, yellow ..... A-3713-12

### Thumper Bumpers detailed, page 167

- 23 Spinner Gate Assy. ..... AS-2250-35
- Same as item 21, page 147
- 24 Ball Gate Assy. ..... AS-2250-24
- Detailed, item 23, page 129
- 25 Target Switch Assy., white (2) AS-982-806
- Detailed, item 24, page 145
- 26 Target Switch Assy., red (4) .. AS-982-723
- Detailed, item 22, page 125
- 27 Target Switch Assy., yellow .. AS-982-740
- Detailed, item 19, page 141
- 28 Target Switch Assy., white AS-982-818
- Detailed, item 23, page 137

- 29 Guide Rail Assy. .... A-3032-19
- 30 Guide Rail Assy. .... A-3032-20
- 31 Flip Unit Assy. .... AS-2807-2

### Detailed, page 181

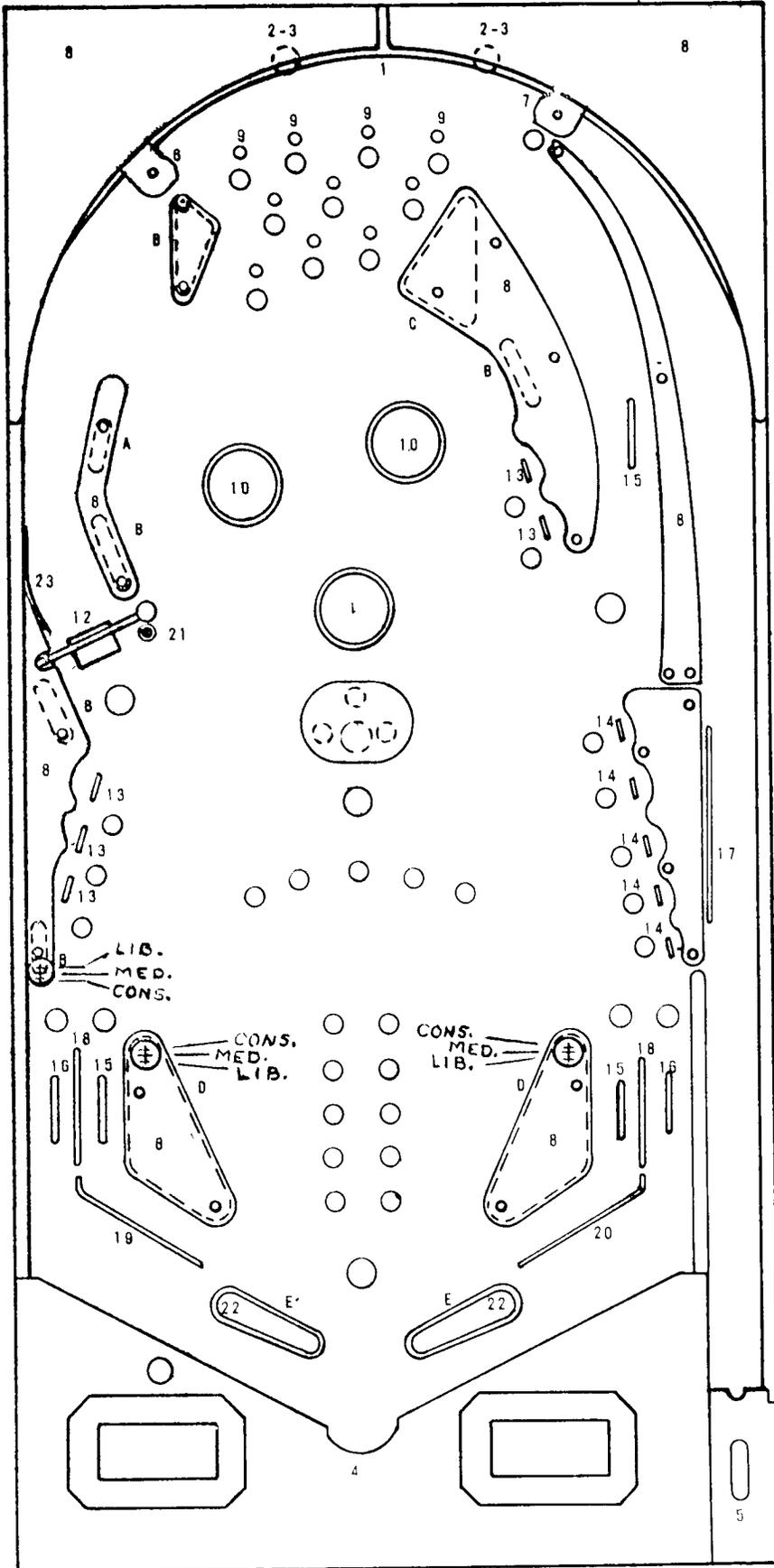
- 32 Flipper & Pin Assy. .... AS-2214-21

### Flipper Units detailed, page 175

- 33 Ball Guide Wire ..... M-121-24
- 34 Ball Guide Wire ..... M-121-60

● INDICATES MOVABLE POST FOR PLAYFIELD ADJUSTMENT

# HI-DEAL Playfield Chart



## RUBBER RINGS

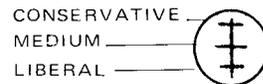
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-1, 1 in.
- B R-521-2, 1½ in. (5)
- C R-521-4, 2½ in.
- D R-521-5, 3 in. (2)
- E R-406-3 (Flipper) (2)

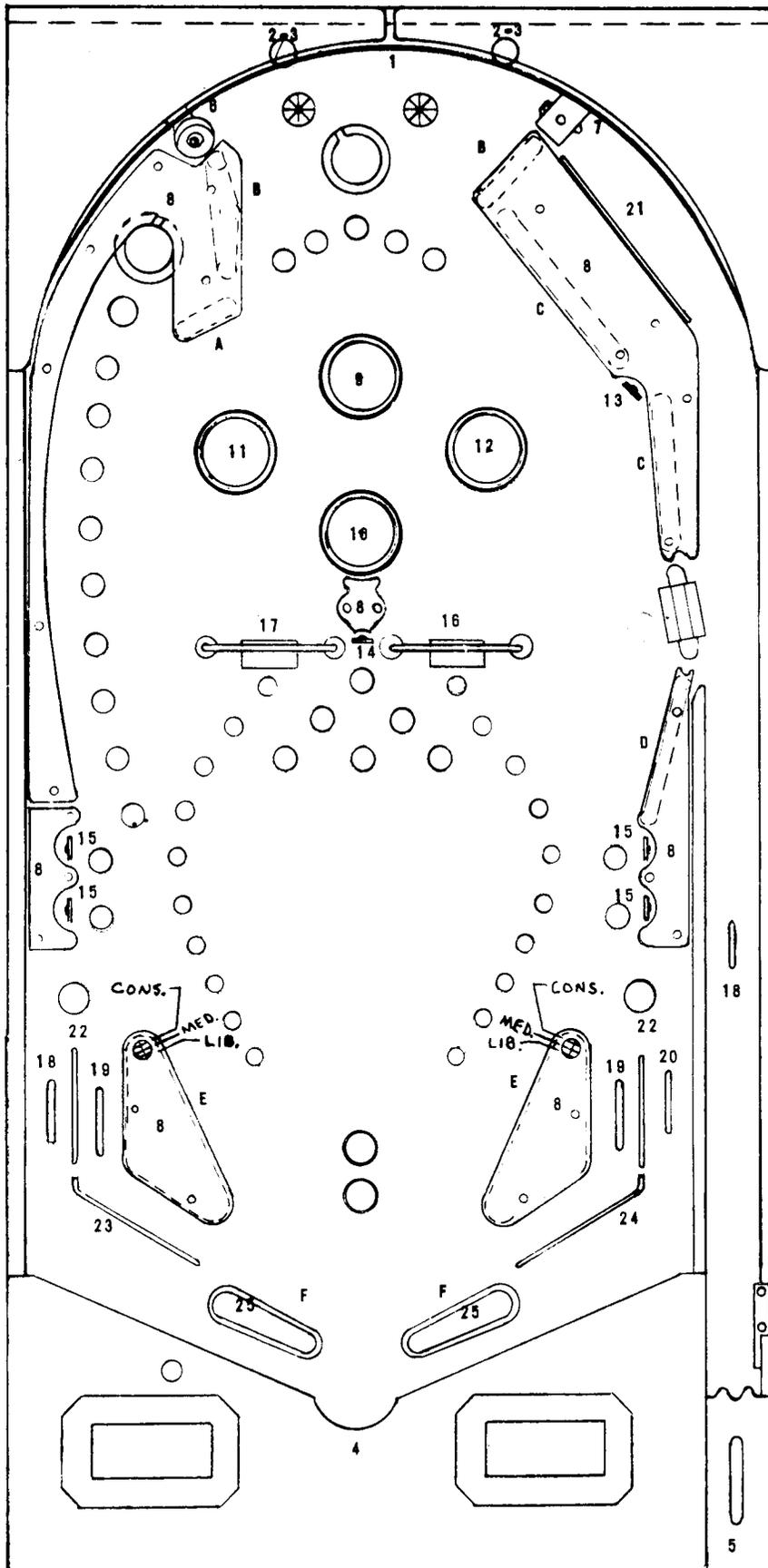
## OTHER PARTS

- 1 Arch Rail . . . . . M-1774
- 2 Rail Post . . . . . C-907
- 3 Rail Post Cap . . . . . C-908
- 4 Bottom Arch . . . . . P-5871-49
- 5 Shooter Guide . . . . . P-6359-15
- 6 Ball Gate, left . . . . . A-1475-10
- 7 Ball Gate, right . . . . . A-1475-9
- 8 Screened Plastics (set) . . . . . A-2890-112
- 9 Rollover Button (10) . . . . . C-387-6
- Parts related to Rollover Button:  
see item 14, page 127
- 10 Thumper Cap (2) . . . . . A-3713-17
- 11 Thumper Cap . . . . . A-3713-22
- Thumper Bumper details, page 167
- 12 Spinner Gate . . . . . AS-2250-35
- Same as item 21, page 147
- Spinner Switch . . . . . ASW-A1-130
- 13 Target Assy., red (5) . . . . . AS-982-723
- Detailed, item 22, page 125
- 14 Target Assy., white (5) . . . . . AS-982-806
- Detailed, item 24, page 145
- 15 Rollover Wire Assy. (3) . . . . . AS-2806
- Detailed, item 13, page 146
- 16 Rollover Wire Assy. (2) . . . . . AS-2806-2
- Detailed, item 12, page 146
- 17 Ball Guide . . . . . M-121-34
- 18 Ball Guide (2) . . . . . M-121-18
- 19 Ball Guide . . . . . M-121-43
- 20 Ball Guide . . . . . M-121-44
- 21 Mini-Post Assy. . . . . AS-2836
- See page 200
- 22 Flipper & Shaft (2) . . . . . AS-2214-24
- Flipper detailed, page 175
- 23 Guide Rail Assy. . . . . A-3032-21

⊕ INDICATES MOVABLE POSTS FOR ADJUSTMENT:



# BOW AND ARROW Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

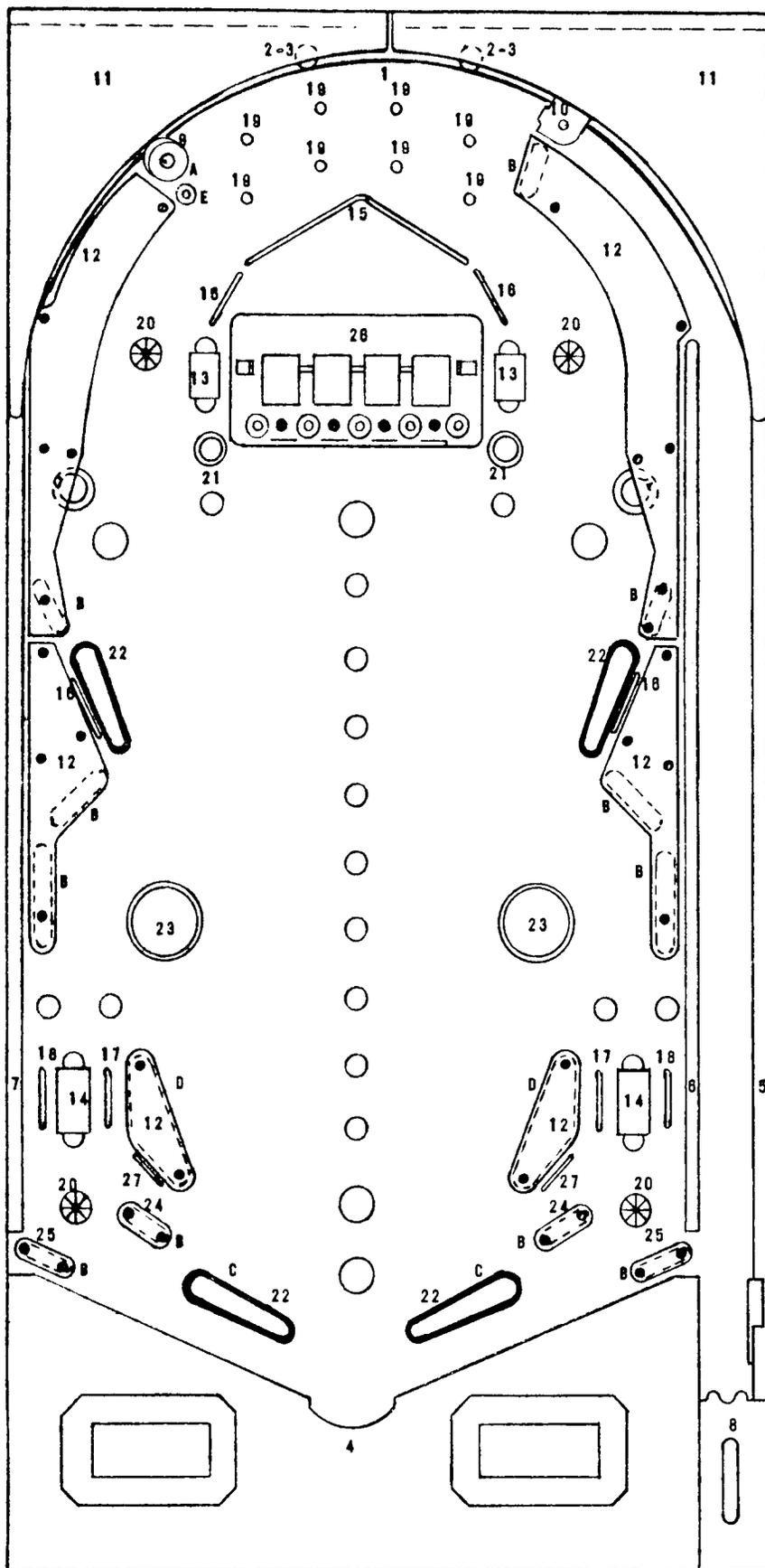
- A R-521-1, 1 in.
- B R-521-2, 1-1/2 in. (2)
- C R-521-3, 2 in. (2)
- D R-521-4, 2-1/2 in.
- E R-521-5, 3 in. (2)
- F R-406-3 (Flipper) (2)

## PARTS

- 1 Arch Rail ..... M-1774
- 2 Rail Post ..... C-907
- 3 Rail Post Cap ..... C-908
- 4 Bottom Arch ..... P-5871-48
- 5 Shooter Gauge ..... P-6359-14
- 6 Rebound Assy. .... AS-493-6  
Detailed item 8, page 125
- 7 Ball Gate ..... A-1475-9
- 8 Screened Plastics (set) ... A-2890-110
- 9 Bumper Cap A ..... A-3713-1
- 10 Bumper Cap B ..... A-3713-2
- 11 Bumper Cap C ..... A-3713-3
- 12 Bumper Cap D ..... A-3713-4  
Bumpers detailed, page 167
- 13 Target Assy., red ..... AS-982-752  
Detailed item 23, page 125
- 14 Target Assy., yellow ..... AS-982-807  
Detailed item 22, page 137
- 15 Target Assy., green (4) ... AS-982-813  
Bracket ..... P-126-427  
Switch Plate  
Flat ..... P-126-155  
Spring ..... P-137-5  
Target Switch Assy. .... A-3359-6
- 16 Spinner Gate, right ..... AS-2250-34  
Detailed, item 20, page 147
- 17 Spinner Gate, left ..... AS-2250-35  
Detailed, item 21, page 147  
SPINNER Relay,  
Single Relay, Playfield Panel,  
BOW AND ARROW, page 79  
Spinner Switch (2) ..... ASW-A1-130  
Spinner Unit, page 109
- 18 Rollover Wire Assy. .... AS-2806-2  
Detailed, item 12, page 146
- 19 Rollover Wire Assy. (2) ... AS-2806  
Detailed, item 13, page 146
- 20 Rollover Wire Assy. .... AS-2806-1  
Bracket ..... P-6254-1  
Wire ..... M-1336-1
- 21 Guide Wire ..... M-121-34
- 22 Guide Wire (2) ..... M-121-18
- 23 Guide Wire ..... M-121-43
- 24 Guide Wire ..... M-121-44
- 25 Flipper & Shaft ..... AS-2214-24  
Flippers detailed, page 175

⊕ INDICATES MOVABLE POSTS FOR ADJUSTMENT;  
CONSERVATIVE — ⊕  
MEDIUM — ⊕  
LIBERAL — ⊕

# FLIP FLOP Playfield Chart



## RUBBER PARTS

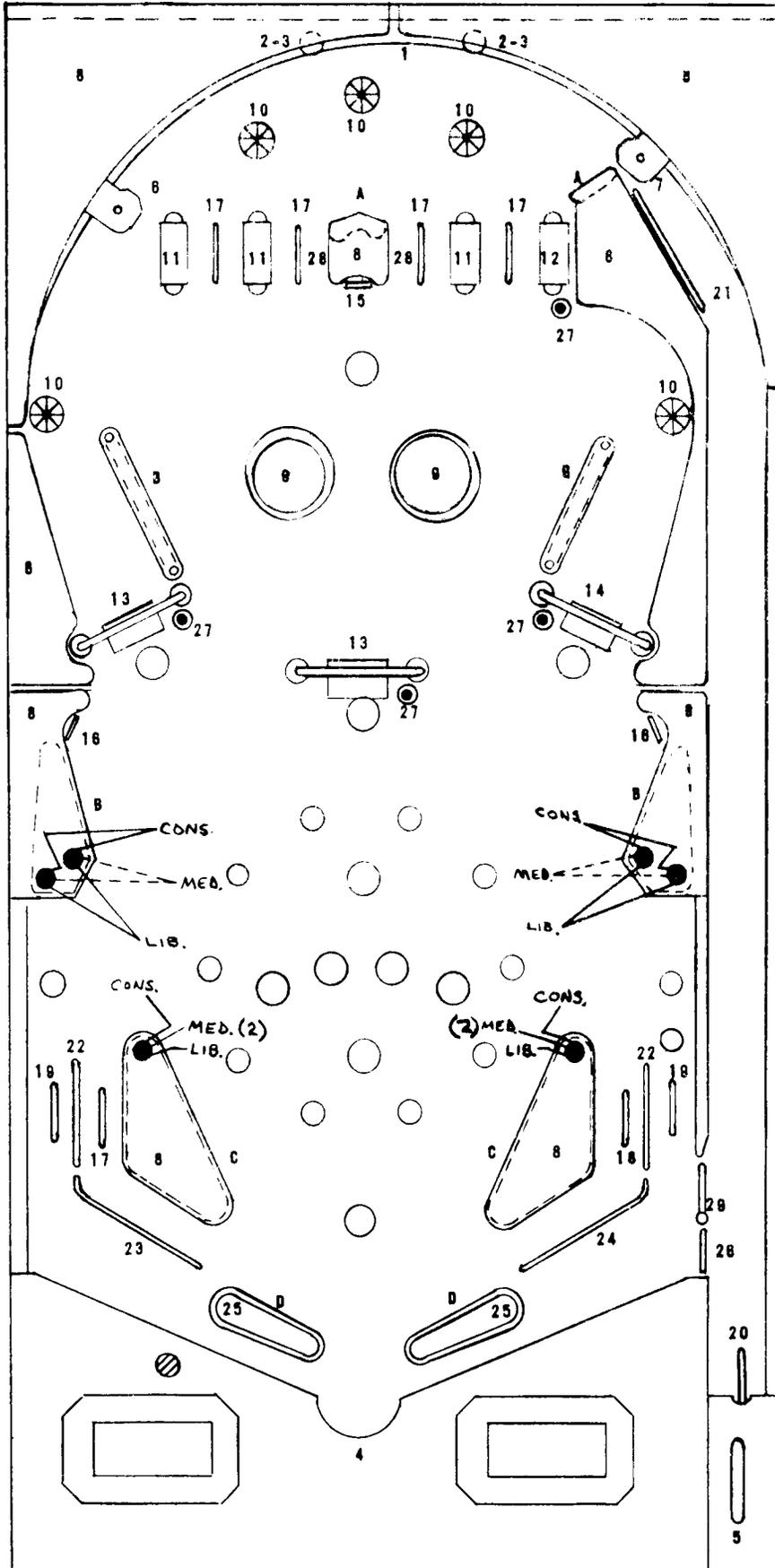
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4 (Rebound)
- B R-521-1, 1 in. (11)
- C R-408-3 (Flipper) (4)
- D R-521-4, 2½ in. (2)
- E R-243, 5/16 in. (11)

## OTHER PARTS

- 1 Arch Rail . . . . . M-1774
- 2 Rail Post . . . . . C-907
- 3 Rail Post Cap . . . . . C-908
- Item 2, 3 illustrated, page 200
- 4 Bottom Arch . . . . . P-5871-52
- 5 Side Rail, right . . . . . CA-1208-33
- 6 Inside Rail . . . . . CA-1208-26
- 7 Side Rail, left . . . . . CA-1208-37
- 8 Ball Shooter Guide . . . . . P-6369-18
- 9 Rebound Assy. . . . . AS-493-6
- Detailed, item 8, page 125
- 10 Ball Gate Assy., right . . . . . A-1475-9
- 11 Top Plastics . . . . . M-1330-124
- 12 Light Shields (set) . . . . . A-2890-109
- 13 Plastic Guide (2) . . . . . C-694-5
- 14 Plastic Guide (2) . . . . . C-702-1
- 15 Guide Wire . . . . . M-121-61
- 16 Guide Wire (4) . . . . . M-121-24
- 17 Rollover Wire Assy. (2) . . . . . AS-2806
- Detailed, item 13, page 146
- 18 Rollover Wire Assy. (2) . . . . . AS-2806-1
- Detailed, item 20, page 146
- Switch, items 17, 18 . . . . . ASW-A1-5
- 19 Rollover Button (8) . . . . . C-387-6
- Parts used with item 19:
- Switch . . . . . ASW-A1-4
- Switch Plate . . . . . P-137-5
- Switch Stop Bracket . . . . . P-126-562
- 20 Rollover Button (4) . . . . . C-900
- Parts used with item 20:
- See item 11, page 147
- 21 Mushroom Bumper (2) . . . . . AS-2291-2
- Cap & Plunger, white . . . . . C-693-1
- Eyelet . . . . . M-122-13
- Post . . . . . C-617-8
- Retaining Ring . . . . . P-2891-4
- Rubber Ring . . . . . P-392
- Spring, Compression . . . . . SP-200-162
- Pal Nut for above . . . . . M-1314-2
- Switch for above:
- see pages 25, 26
- 22 Flipper & Shaft Assy. . . . . AS-2214-24
- Detailed with other Flipper detail, page 175
- 23 Bumper Cap (2) . . . . . A-3713-17
- Thumper Bumper detailed, page 167
- 24 Plate (2) . . . . . P-5899-35
- 25 Plate (2) . . . . . P-5899-37
- 26 Flip Unit Assy. . . . . AS-2807-1
- Detailed, page 181
- 27 Guide Wire (2) . . . . . M-121-32

# HOKUS POKUS Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters.

- A R-521-2, 1½ in.
- B R-521-4, 2½ in.
- C R-521-5, 3 in.
- D R-406-3 (Flipper rubber)

## OTHER PARTS

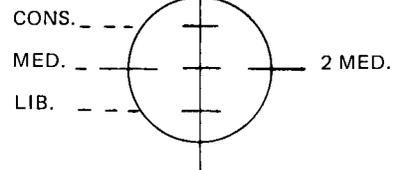
- 1 Arch Rail ..... M-1774
- 2 Rail Post ..... C-907
- 3 Rail Post Cap ..... C-908
- 4 Bottom Arch ..... P-5871-50
- 5 Ball Shooter Guide ..... P-6359-18
- 6 Ball Gate, left ..... A-1475-10
- 7 Ball Gate, right ..... A-1475-9
- 8 Light Shield (set) ..... A-2890-114
- 9 Thumper Cap ..... A-3713-22
- Thumper Bumper detail page 167
- 10 Rollover Button ..... C-900

Parts used with item 10:  
see item 14, page 127

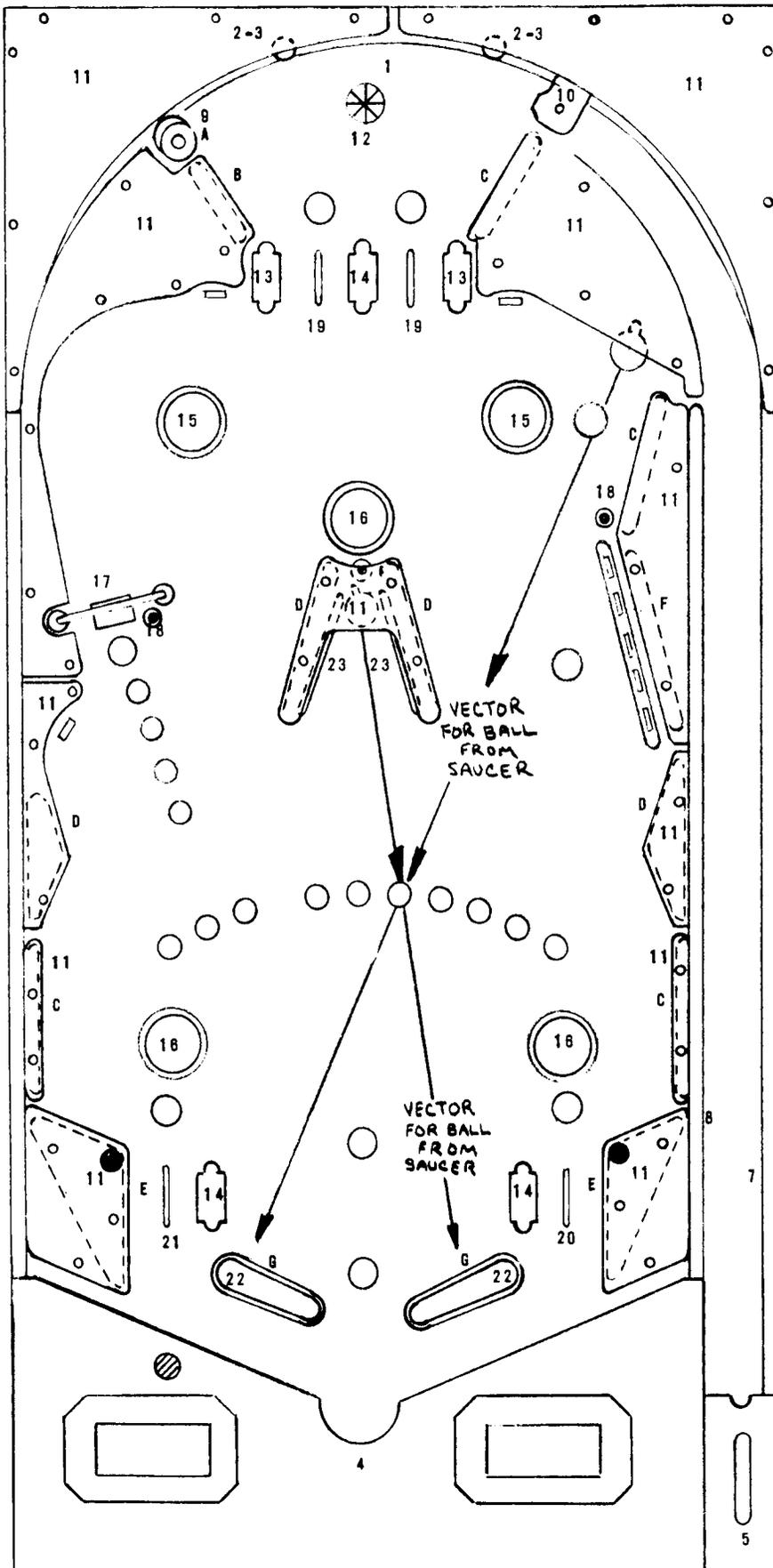
- 11 Plastic Guide ..... C-693-1
- 12 Plastic Guide ..... C-694-1
- 13 Spinner Gate ..... AS-2250-38
- Spinner Assy. .... A-3460-5
- Target Holder ..... P-5867-10
- Washer ..... P-801-583
- Wire ..... M-1272-32
- 14 Spinner Gate Assy. .... AS-2250-39
- Same as item 13, above,  
reverse position
- 15 Target Assy. .... AS-982-807
- Same as item 22, page 137
- 16 Target Assy. .... AS-982-752
- Same as item 23, page 125
- 17 Rollover Assy. .... AS-2806-1
- Same as item 20, page 150
- 18 Rollover Assy. .... AS-2806
- Same as item 13, page 146
- 19 Rollover Assy. .... AS-2806-2
- Same as item 12, page 146
- 20 Rollover Assy. .... AS-2806-23
- Bracket ..... P-6254-1
- Wire ..... M-1336-23
- 21 Ball Guide ..... M-121-30
- 22 Ball Guide ..... M-121-18
- 23 Ball Guide ..... M-121-43
- 24 Ball Guide ..... M-121-44
- 25 Flipper & Shaft ..... AS-2214-24
- Detailed with Flippers,  
page 175
- 26 Ball Guide ..... M-121-46
- 27 Mini-Post ..... AS-2836
- See page 199
- 28 Plastic Guide ..... C-894-5
- 29 Gate Wire ..... M-1335-1
- Free Gate Relay Assy. . . AS-2308-18
- Single Relay (Playfield Panel),  
HOKUS POKUS, page 81

● INDICATES MOVABLE POSTS FOR

ADJUSTMENTS:



# OLD CHICAGO Playfield Chart



## RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-115-4, Rebound
- B R-521-2, 1½ in.
- C R-521-3, 2 in. (4)
- D R-521-4, 2½ in. (4)
- E R-521-5, 3 in. (2)
- F R-521-6, 3½ in. (2)
- G R-406-3, Flipper (2)

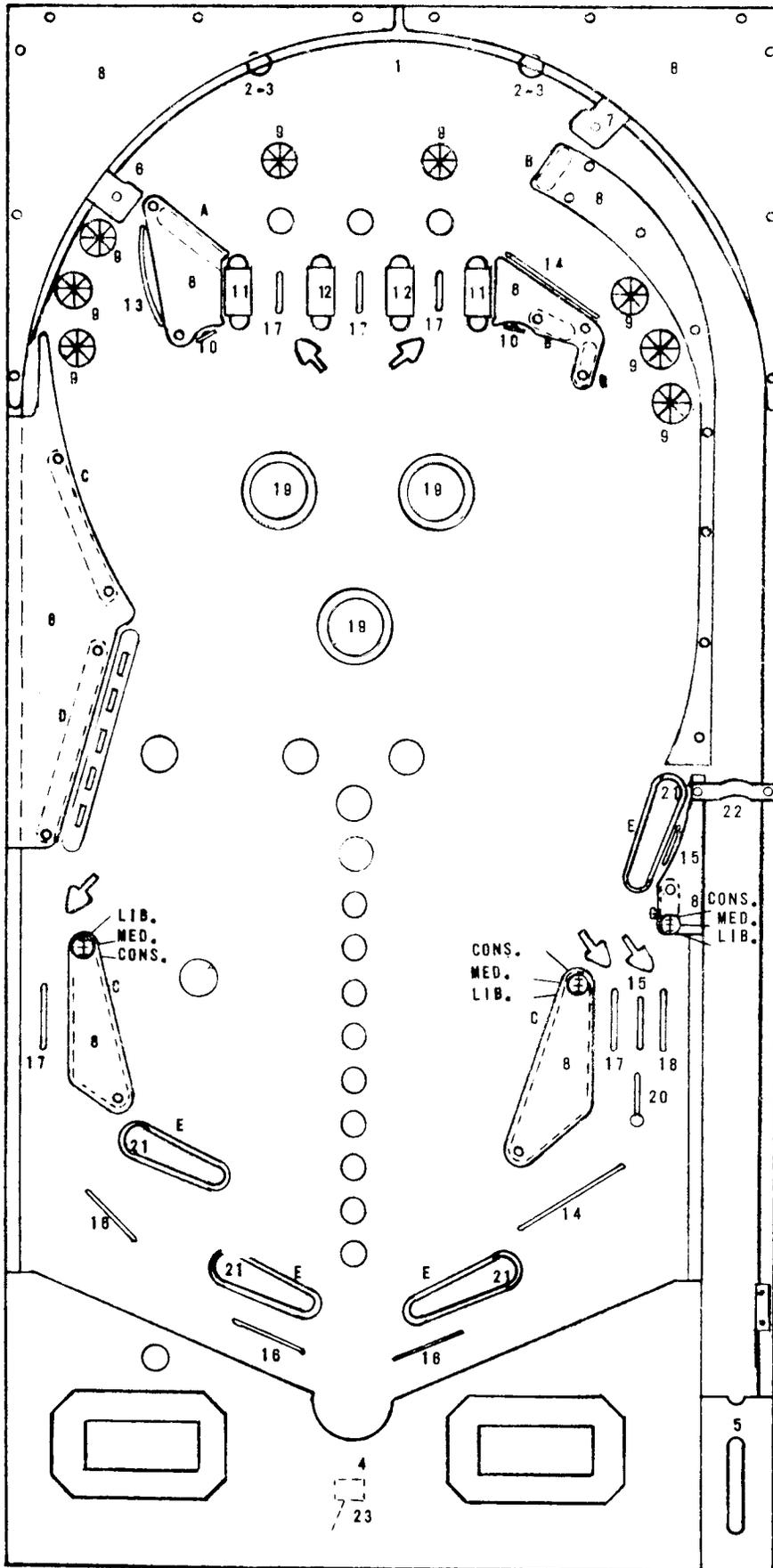
## OTHER PARTS

- 1 Arch Rail ..... M-1774
- 2 Rail Post ..... C-907
- 3 Rail Post Cap ..... C-908
- 4 Bottom Arch ..... P-5871-51
- 5 Shooter Guide ..... P-6359-17
- 6 Rail, left ..... CA-1208-32
- 7 Rail, right ..... CA-1208-33
- 8 Rail, inside ..... CA-1208-26
- 9 Rebound Assy. .... AS-493-6  
Same as item 8, page 125
- 10 Ball Gate ..... A-1475-9
- 11 Light Shields, set ..... A-2890-115
- 12 Rollover Button ..... C-900  
Rollover Switch ..... ASW-A1-122
- 13 Plastic Guide (2) ..... C-694-5
- 14 Plastic Guide (3) ..... C-693-5
- 15 Thumper Bumper Cap (2) A-3713-23
- 16 Thumper Bumper Cap (3) A-3713-22  
Thumper Bumper detail, page 167
- 17 Spinner Gate ..... AS-2250-35  
Same as item 21, page 147  
Spinner Units page 109  
Spinner Switch ..... ASW-A1-130
- 18 Mini-Post ..... AS-2836  
See page 200
- 19 Rollover Assy. (2) ..... AS-2806  
Same as item 13, page 146
- 20 Rollover Assy. .... AS-2806-3  
Bracket ..... P-6254-1  
Wire ..... M-1336-3
- 21 Rollover Assy. .... AS-2806-2  
Same as item 12, page 153
- 22 Flipper & Shaft (2) .... AS-2214-24  
Detailed with Flippers, page 175
- 23 Guide Wire (2) ..... M-121-30

• INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

LIB. - LIBERAL ———— ⊕  
 MED. - MEDIUM ———— ⊕  
 CONS. - CONSERVATIVE ———— ⊕

# CAPT. FANTASTIC Playfield Chart



## RUBBER PARTS

Dimensions are inside diameter. Numbers in parentheses indicate quantity used, if in excess of one.

- A R-521-3, 2 in.
- B R-521-1, 1 in. (2)
- C R-521-4, 2½ in. (3)
- D R-521-5, 3 in. (2)
- E R-403-3, Flippers (4)
- F R-243, 5/16 in. (9)
- G R-521, 3/4 in. (2)

## OTHER PARTS

- 1 Arch Rail..... M-1774
- 2 Rail Post (2)..... C-907
- 3 Rail Post Cap (2)..... C-908
- 4 Bottom Arch..... P-5871-53
- 5 Shooter Gauge..... P6359-19
- 6 Ball Gate, left..... A1475-10
- 7 Ball Gate, right..... A-1475-9
- 8 Light Shields (set)..... A-2890-117
- 9 Rollover Button (8)..... C-900
- Part used with item 9:  
see item 11, page 147
- 10 Target Assy. (2)..... AS-982-732
- Same as item 22, page 125
- 11 Plastic Guide (2)..... C-936-5
- 12 Plastic Guide (2)..... C-935-5
- 13 Guide Wire..... M-121-62
- 14 Guide Wire (2)..... M-121-30
- 15 Guide Wire (2)..... M-121-48
- 16 Guide Wire (3)..... M-121-53
- 17 Rollover Assy., (5)..... AS-2806-1
- Same as item 20, page 150
- 18 Rollover Assy..... AS-2806-3
- Same as item 20, page 153
- 19 Thumper Bumper Cap (3) A-3713-26
- Thumper Bumper detail, page 167
- 20 Gate Wire..... M-1335
- 21 Flipper & Shaft (4)..... AS-2214-24
- Detailed with Flippers, page 175
- 22 Hood..... P-1732
- 23 Rollover Assy., Outhole . AS-2806-21
- Same as item 21, page 146
- Switch used with item 23 . ASW-A1-113



# PLAYFIELD COMPONENTS

PANEL PARTS

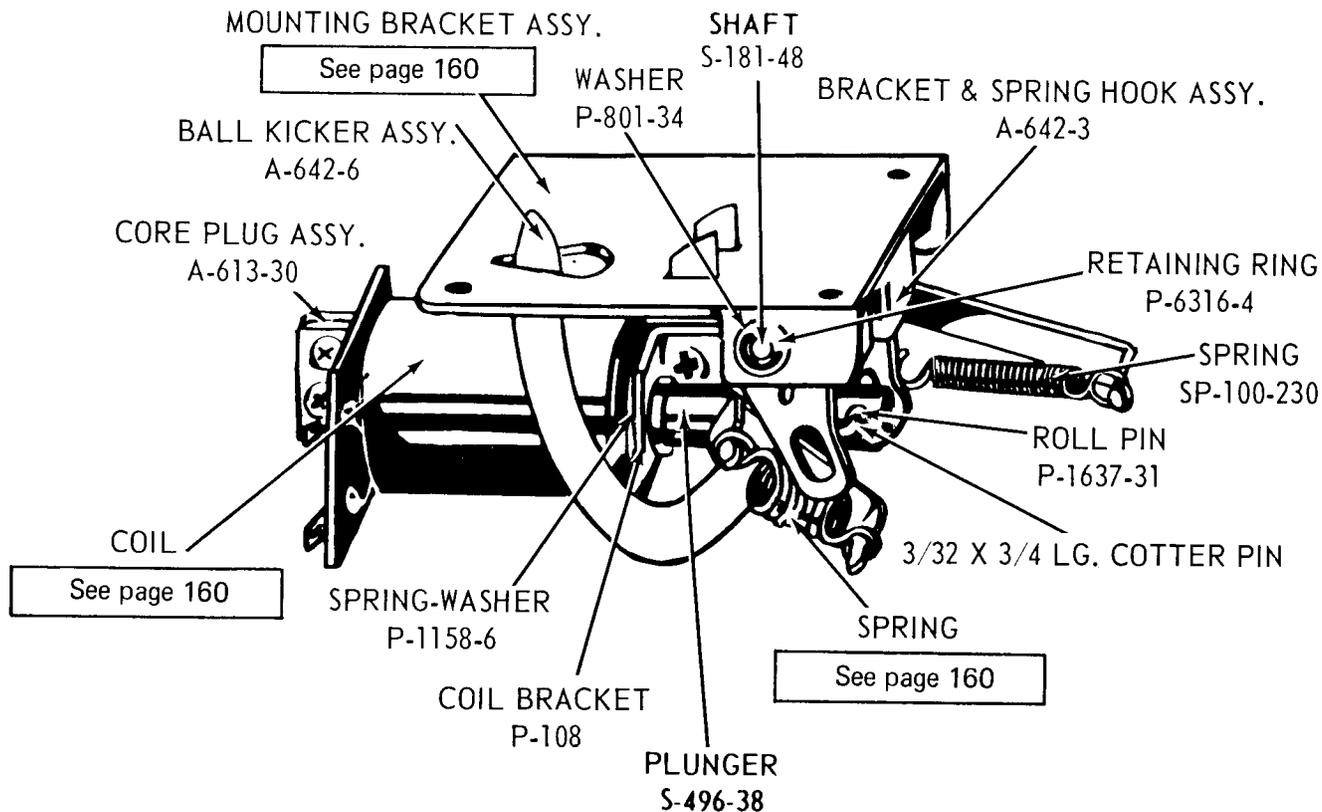


# PLAYFIELD COMPONENTS

Alligator Unit	
See Ball Grabber Assy.	
Automatic Ball Shooter	
See Ball Shooter, Automatic	
Ball Ejector Assys. ....	159, 160
ALSO SEE	
Ball Return Kicker	
Ball Grabber Assy. ....	161, 162
Ball Return Kicker Assy.	
See Ball Ejector Assys.	
Ball Shooter, Automatic .....	164
ALSO SEE PAGE 208	
Ball Trough Assys. ....	165, 166
Bumper Assys., Mushroom.....	170
Bumper Assys., Standard .....	170
Bumper Assys., Thumper.....	167-169
Disappearing Post Assys.	
See Post Assys., Disappearing	
Drop Target Assys. ....	171, 172
ALSO SEE	
Target Assys.	
Ejector Assys.	
See Ball Ejector Assys.	
Electronic Parts	
See Page 204	
Flasher Target Assy. ....	173
Flipper Units, related parts .....	175-180
Flip Unit Assys. ....	161, 162
Free Ball Gates	
See Swivel Type Free Ball Gates	
ALSO SEE PLAYFIELD CHARTS, PAGE 124	
Grabber Assy.	
See Ball Grabber Assy.	
Kickback Assy. ....	183
ALSO SEE	
Ball Ejector Assys.	
Ball Shooter, Automatic	
Slingshot Kicker & Coil Assys.	
Miscellaneous Parts .....	199-201
Mushroom Bumper Assys.	
See Bumper Assys., Mushroom	
Post Assys., Disappearing.....	184-186
ALSO SEE PAGE 201	
Rebound Switch Assys. ....	187-190
Rollover Button .....	191, 192
Rollovers .....	191, 192
Shooter Assy., Automatic	
See Ball Shooter, Automatic	
ALSO SEE PAGE	
Slingshot Kicker & Coil Assys. ....	187-190
ALSO SEE	
Kickback Assys.	
Spinner Assys. ....	193, 194
Standard Bumper Assy.	
See Bumper Assy., Standard	
Swivel Type Free Ball Gates.....	195, 196
ALSO SEE	
3-Step Ball Escape Assy.	
Target Assys. ....	170
ALSO SEE	
Drop Target Assys.	
Flasher Target Assys.	
3-Step Ball Escape Assy. ....	197, 198
Thumper Bumper Assys.	
See Bumper Assys., Thumper	
Trough Assys., Ball	
See Ball Trough Assys.	

# BALL-EJECTOR ASSYS.

ALSO SEE BALL RETURN KICKER EJECTOR ASSYS., PAGE 163



## SCREWS

Order screws by name or description with reference to (a) name of game, (b) location of Ball Ejector Assy. on playfield, (c) part screw secures.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# BALL-EJECTOR ASSYS.

## SKYROCKET

### through\* MARINER

- Ball Return** . . . . . AS-428-30
- As illustrated, page 159, excepting
  - Coil . . . . . A-26-1100
  - Mounting Bracket Assy. . . . . A-643-9
  - Spring (Ball Kicker Assy.) . . SP-199-27
- Skill Kickout** . . . . . AS-428-31
- As illustrated, page 159, excepting
  - Coil . . . . . A-26-1100
  - Mounting Bracket Assy. . . . . A-643-7
  - Spring (Ball Kicker Assy.) . . SP-199-11

## FIREBALL

- Ball Return** . . . . .
- Ball Return Kicker . . . . . AS-2694
- As illustrated, page 163
- Skill Kickout** . . . . . AS-428-28
- As illustrated, page 159, excepting
  - Coil . . . . . A-27-1300
  - Mounting Bracket Assy. . . . . A-643-7
  - Spring (Ball Return Kicker) . SP-199-11

## EL TORO

- Ball Return**
- Ball Return Kicker . . . . . AS-2694
- As illustrated, page 163

## LITTLE JOE

Same as in FIREBALL

## SPACE TIME

### through\* TIME ZONE

- Ball Return**
- Ball Return Kicker . . . . . AS-2694
- As illustrated, page 163
- Skill Kickout** . . . . . AS-428-31
- As illustrated, page 159, excepting
  - Coil . . . . . A-26-1100
  - Mounting Bracket Assy. . . . . A-643-7
  - Spring (Ball Kicker Assy.) . . SP-199-11

## NIP-IT

Same as in FIREBALL

## HI-LO ACE

### through\* BIG SHOW

Same as in EL TORO

## CHAMP

Same as in FIREBALL

## TWIN WIN

- Ball Return**
- Automatic Ball Shooter . . . . AS-1566-25
- As described, page 164
- Skill Kickout**
- Yellow Player . . . . . AS-428-28
- Same as Skill Kickout, FIREBALL
- Green Player** . . . . . AS-428-33
- As illustrated, page 159, excepting
  - Ball Kicker Assy. . . . . A-642-8
  - Bracket & Spring Hook . . . . A-642-7
  - Coil . . . . . A-27-1100
  - Mounting Bracket . . . . . A-643-11
  - Spring (Ball Kicker) . . . . . SP-199-11

## SKY KINGS

### through\* FLICKER

- Same as in FIREBALL
- Ball Return Switch** . . . . . ASW-A1-113

## AIR ACES

- Ball Return**
- Ball Return Kicker . . . . . AS-2694
- As illustrated, page 163
- Ball Return Switch . . . . . ASW-A1-113
- Skill Kickout**
- Double Bonus . . . . . AS-428-28
- Same as Skill Kickout, FIREBALL
- Extra Ball
- Same as Double Bonus

## KNOCKOUT, WIZARD

Same as in FIREBALL

## HI-DEAL

- Ball Return**
- Ball Return Kicker . . . . . AS-2694-1
- As described, page 163
- Ball Return Switch . . . . . ASW-A1-113
- Skill Kickout** . . . . . AS-428-35
- As illustrated, page 159, with
  - Coil . . . . . A-27-1300
  - Mounting Bracket Assy. . . . . A-643-7
  - Spring (Ball Kicker Assy.) . . SP-199-11

## BOW AND ARROW

- Same as in HI-DEAL, except
- Skill Kickout (2 USED)** . . . . AS-428-35
- As described under HI-DEAL

## FLIP FLOP

- Same as in HI-DEAL, except
- Skill Kickout**
- LEFT . . . . . AS-428-35
- As described under HI-DEAL
- RIGHT . . . . . AS-428-36
- Same as AS-428-35, above, except
  - Ball Kicker Assy. . . . . A-642-8
  - Bracket & Spring Hook Assy. A-642-7
  - Mounting Bracket Assy. . . . . A-643-11

## HOKUS POKUS

- Ball Return**
- Ball Return Kicker . . . . . AS-2694-1
- As described, page 163

## OLD CHICAGO

- Ball Return**
- Same as in HOKUS POKUS
- Skill Kickout** . . . . . AS-428-36
- Same as Skill Kickout, RIGHT, FLIP FLOP

## CAPT. FANTASTIC

Same as in OLD CHICAGO

CONTINUED  
ON  
NEXT PAGE

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# BALL GRABBER ASSY. AS-2743

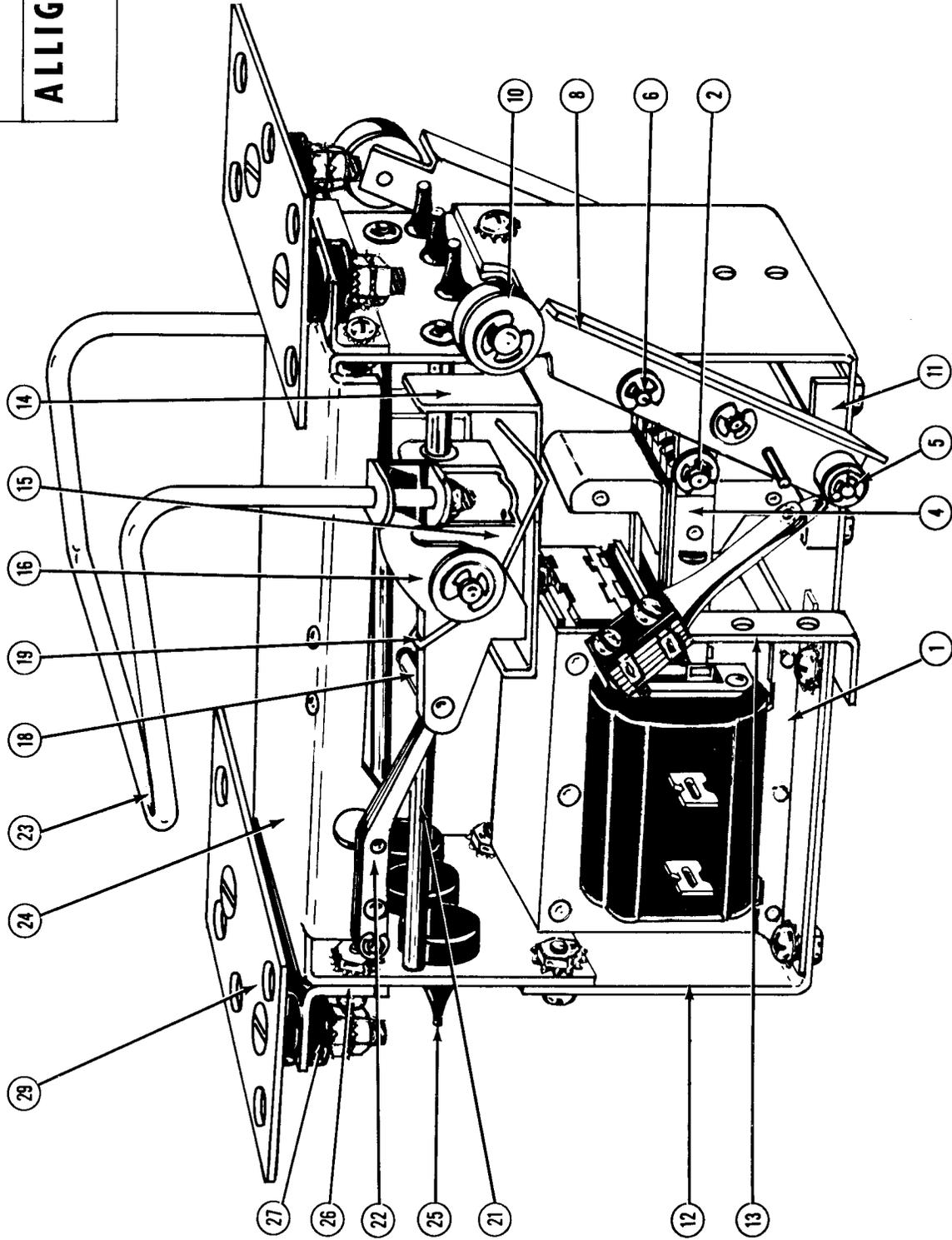
**ALLIGATOR BUTTON**

SAME AS FLIPPER BUTTON

PAGE 175

**ALLIGATOR COVER**

M-1639-1



WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

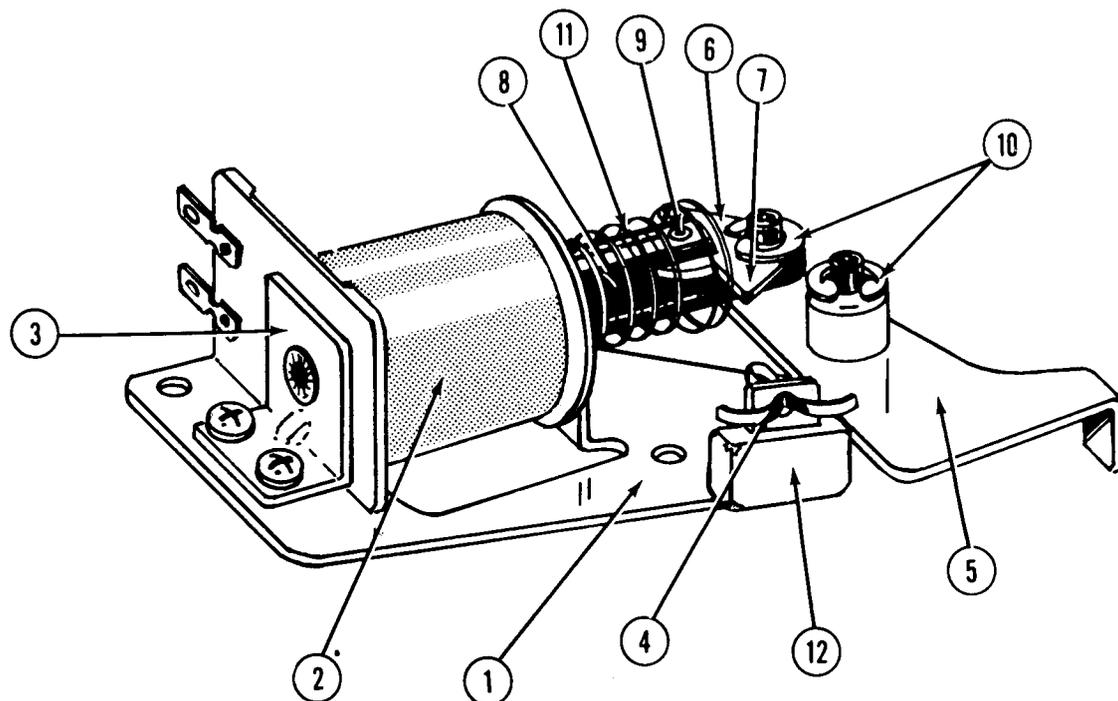
# BALL GRABBER ASSY. AS-2743

- ① Solenoid ..... E-184-276  
 SECURED TO  
 SOLENOID BRACKET  
 BY  
 4 Lockwasher, External ... M-1700  
 4 Nut ..... N-01032-2112  
 4 Screw ..... LSPR-01032-1106
- ② Pin, Link ..... S-739-208
- ③ Split Spacer  
 NOT VISIBLE IN SKETCH  
 ENCASES ITEM 2, ABOVE ... M-1481-42
- ④ Link (4 used) ..... P-1973-299
- ⑤ Pin, Pivot ..... S-739-207
- ⑥ Pin, Connector Link (2 used) ... S-181-70
- ⑦ Grommet (4 used)  
 NOT VISIBLE IN SKETCH  
 ENCASE ITEM 6, ABOVE ... R-111-40
- ⑧ Pivot Arm & Stud Assy.  
 VISIBLE IN SKETCH ..... A-3576-3
- ⑨ Pivot Arm & Stud Assy.  
 ON OPPOSITE SIDE OF ASSY.  
 FROM ITEM 8, ABOVE ..... A-3576-2
- ⑩ Roller (2 used) ..... S-2087
- ⑪ Bracket, Pivot ..... P-7812  
 SECURED TO  
 SOLENOID BRACKET  
 BY  
 4 Lockwasher, External ... M-1700-8  
 4 Nut ..... N-00832-2112  
 4 Screw ..... LSPR-00832-1106
- ⑫ Bracket, Solenoid ..... P-7810
- ⑬ Switch & Bracket Assy ..... AS-982-892  
 Bracket ..... P-126-672  
 Screw (2 used) ..... MSSR-00540-1108  
 Switch ..... ASW-A20-24  
 Switch Plate ..... P-137-5  
 SECURED BY SAME FASTENERS  
 WHICH SECURE SOLENOID
- ⑭ Carriage ..... P-7811
- ⑮ Bearing Bracket & Stud Assy.  
 (2 used) ..... A-3571  
 EACH SECURED TO CARRIAGE  
 BY 3 OF EACH FASTENER  
 WHICH SECURES ITEM 11, ABOVE
- ⑯ Grab Arm Bracket & Hub Assy.  
 VISIBLE IN SKETCH ..... A-3572
- ⑰ Grab Arm Bracket & Hub Assy.  
 ON OPPOSITE SIDE OF ASSY.  
 FROM ITEM 16, ABOVE ..... A-3572-1
- ⑱ Bushing, Nylon ..... S-231-787
- ⑲ Spring, Torsion ..... SP-256
- ⑳ Spring, Extension  
 NOT VISIBLE IN SKETCH  
 ATTACHED TO UNDER SIDE  
 OF ITEM 14, ABOVE ..... SP-100-306
- ㉑ Pin, Guide (2 used) ..... S-739-196
- ㉒ Cam & Stud Assy. .... A-3573
- ㉓ Ball Grab Arm ..... M-1597  
 SECURED TO ITEMS 16, 17 ABOVE,  
 BY  
 2 Lockwasher, Split ..... M-1705-6  
 2 Screw, Torq Patch,  
 Hexagon Head, Slotted,  
 No. 6-32 x 3/8
- ㉔ Mounting Bracket &  
 Stud Assy. .... A-3570  
 SECURED TO SOLENOID BRACKET  
 BY MEANS USED  
 TO SECURE ITEM 11, ABOVE
- ㉕ Plug Bumper (6 used) ..... R-231-14
- ㉖ Bracket, Mounting (2 used) ... P-6665-326  
 SECURED TO ITEM 24, ABOVE,  
 BY MEANS USED  
 TO SECURE ITEM 11, ABOVE
- ㉗ Grommet (4 used) ..... R-111-7
- ㉘ Bushing (4 used)  
 NOT VISIBLE IN SKETCH  
 INSIDE OF ITEM 27, ABOVE S-231-658
- ⑳ Bolster Plate (2 used) ..... P-6668-3  
 SECURED TO ITEM 26, ABOVE,  
 BY  
 4 Lockwasher, Internal ... M-1701-8  
 4 Nut ..... N-00832-2112  
 2 Screw ..... MSPF-00832-1112
- MISCELLANEOUS COMPONENTS**  
 Not all visible in sketch  
 Nyliner (6 used) ..... C-537-3  
 Retaining Ring  
 IDENTIFIED BY DIAMETER OF SHAFT  
 FOR WHICH EACH RING IS DESIGNED  
 3/32 in. (1 used) ..... P-6316-1  
 1/8 in. (1 used) ..... P-2891-2  
 3/16 in. (18 used) ..... P-6316-4  
 1/4 in. (2 used) ..... P-6316-6  
 Washer  
 5/8 in. dia. (2 used) ..... P-801-514  
 1 1/16 in. dia. (2 used) ..... P-801-581  
 Plain (4 used) ..... PW-008-12

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# BALL-RETURN KICKER ASSYS.

ALSO SEE BALL-EJECTOR ASSYS., PAGE 159



## FIREBALL to \* WIZARD .... AS-2694

As illustrated above

- 1. Base Plate Assy. .... A-3546
- 2. Coil ..... A-25-1050
- 3. Core Plug Assy. .... A-613-67  
SECURED TO BASE PLATE  
BY 2 SCREWS, SWAGE FORM,  
PAN HEAD,  
No. 8 x 3/8 in. .... SFS-832-06-P12
- 4. Cotter Pin ..... M-1536
- 5. Kicker Arm Assy. .... A-3545
- 6. Plunger & Link Assy. .... AS-2586
- 7. Link ..... P-7373
- 8. Plunger ..... S-496-190
- 9. Roll Pin ..... P-1637-59
- 10. Retaining Ring ..... P-6316-5
- 11. Spring, Compression ..... SP-200-185
- 12. Striker Ring ..... C-838

## HI-DEAL, later games\* ..... AS-2694-1

Same as AS-2694, above, except

- 2. Coil ..... AP-25-850
- 3. Core Plug Assy. .... A-613-89
- 4. Cotter Pin ..... M-1536-1
- 4A. Fishpaper (added) ..... P-150
- 11. Spring, Compression ..... SP-200-189

\*See list of games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# AUTOMATIC BALL-SHOOTER AS-1566-25

Similar to Ball Return Kicker  
on page 163 with

Bracket,

- Mounting . . . . . P-3662-6
- Coil . . . . . P-108-35
- SECURED TO P-3662-6
- BY 2 SCREW, PARKER KALON,
- SWAGE FORM . . . . . SFPR-00832-1106
- Coil . . . . . A-25-950
- Core Plug Assy . . . . . A-613-67
- SECURED TO P-3662-6
- IN SAME MANNER AS P-108-35
- Guide Ring . . . . . C-342
- Spring Washer . . . . . P-1158-6
- Plunger . . . . . S-496-119
- Spring, Compression . . . . . SP-200-19
- Kicker Arm Assy . . . . . A-1875-6
- SECURED TO S-496-119
- BY ROLL PIN . . . . . P-1637-30
- SECURED TO P-3662-6
- BY
- ELASTIC STOP NUT . . . . . M-319-2
- STUD . . . . . S-1784-2

## SHOOTER BUTTON

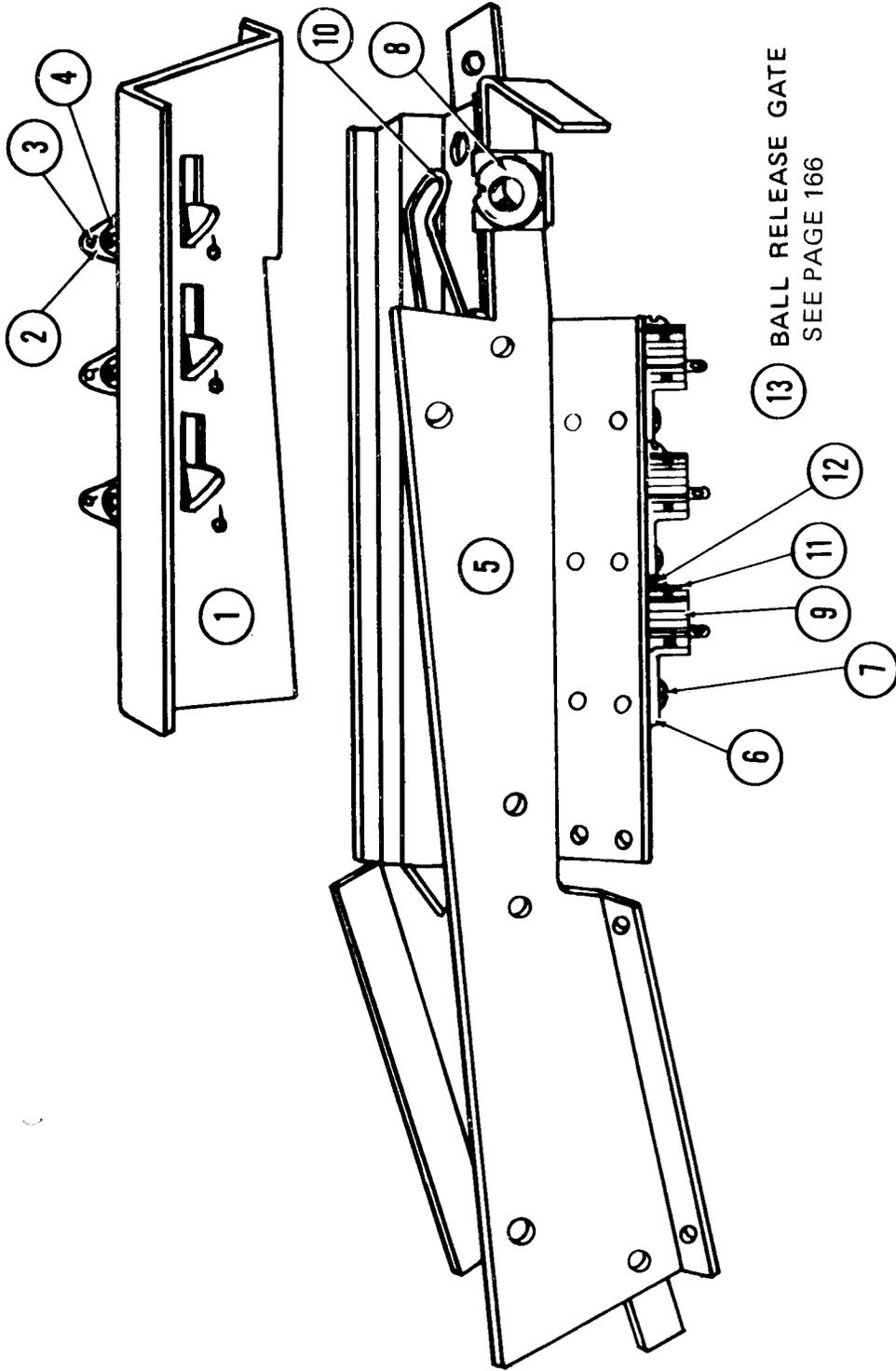
Same as Flipper Button,  
page 175, excepting

Switch . . . . . ASW-A10-22

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# BALL TROUGH & RETAINER ASSYS.

ILLUSTRATIONS SLIGHTLY LESS THAN ACTUAL SIZE



## SINGLE BALL TROUGH

Ball Trough Assy. illustrated above is used in games requiring more than one ball. Order ball Return Trough components for other games by name or description, specifying name of game.

# INDEX TO ABOVE ASSYS.

## Items 1 through 4 constitute BALL RETAINER ASSY.

FOUR MILLION B.C., FIREBALL . . . . . AS-2585  
 NIP-IT . . . . . AS-2585-1  
 ① Ball Trough Cover Assy.  
   IN AS-2585 . . . . . A-3454  
   IN AS-2585-1 . . . . . A-3454-1  
 ② Pawl  
   IN both Assys. . . . . P-7410  
 ③ Spring, Torsion  
   IN both Assys. . . . . SP-399-32  
 ④ Retaining Ring  
   IN both Assys. . . . . P-2891-4

## Items 5 through 12 constitute BALL TROUGH ASSY.

FOUR MILLION B.C. . . . . AS-2412-2  
 FIREBALL . . . . . AS-2412-3  
 NIP-IT . . . . . AS-2412-4  
 ⑤ Ball Trough Assy.  
   IN AS-2412-2 . . . . . AS-2896-6  
   IN AS-2412-3 . . . . . AS-2896-9  
   IN AS-2412-4 . . . . . AS-2896-9  
 ⑥ Bracket, Switch  
   IN all 3 Assys. . . . . P-126-555  
 ⑦ Bracket Screw . . . . . LS-632-3-511  
 ⑧ NYliner  
   IN all 3 Assys. . . . . C-537-5  
 ⑨ Switch  
   IN all 3 Assys. . . . . ASW-A1-35  
 ⑩ Switch Actuator  
   IN all 3 Assys. . . . . M-497-13  
 ⑪ Switch Plate  
   IN all 3 Assys. . . . . P-137-5  
 ⑫ Switch Screw  
   IN all 3 Assys. . . . . MS-540-10-510  
 ⑬ SEE LISTING AT RIGHT

# BALL RELEASE GATE USED WITH ABOVE ASSYS.

## FOUR MILLION B.C. FIREBALL NIP-IT

Ball Gate . . . . . A-3110  
 Ball Gate Coil Bracket Assy. . . . . AS-1587-73  
 As illustrated, page 195, except  
 Base Plate . . . . . P-3691-21  
 Coil . . . . . A-27-1300  
 Lever Arm Assy. . . . . A-1889-7  
 Spring . . . . . SP-240-3

## FOUR MILLION B.C. FIRE BALL

Switch & Bracket Assy. . . . . AS-982-863  
 Bracket . . . . . P-126-632  
 Switch . . . . . ASW-A2X-7  
 Switch Plate . . . . . P-137-5  
 Switch Screw . . . . . MS-540-6-110

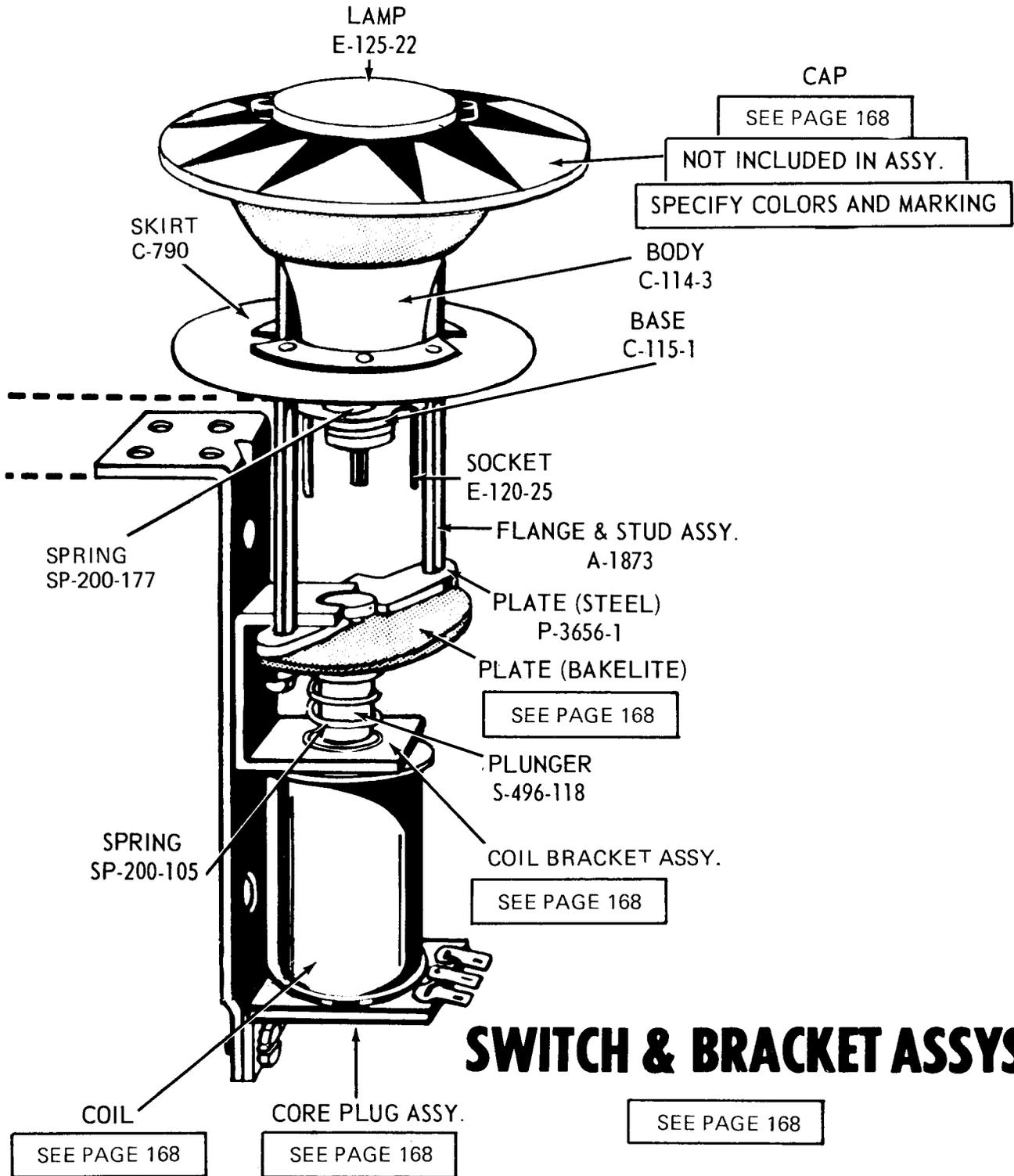
## NIP-IT

Switch & Bracket Assy. . . . . AS-982-971  
 Same as AS-982-863, above,  
 with position of Switch reversed

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# THUMPER BUMPER ASSYS. (Above Playfield)

## COIL & BRACKET ASSYS. (Below Playfield)



### SWITCH & BRACKET ASSYS.

SEE PAGE 168

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# THUMPER BUMPER VARIATIONS

## HOW TO REMOVE OR INSTALL THUMPER BUMPER

To remove Thumper Bumper, first elevate Playfield Panel and unsolder and straighten terminals of Lamp Socket E-120-25 to permit passage through Playfield.

Then remove Nuts at end of Studs on Flange & Stud Assy. A-1873.

Remove Cap for access to Wood Screws which secure Thumper Bumper to top of Panel. When Screws are removed, entire Thumper Bumper may be lifted from Panel.

(Be careful that parts assembled to Flange & Stud Assy. do not become disassembled.)

To install new Thumper Bumper, follow above instructions in reverse order.

After installation, check and adjust Bumper Scoring Switch. Blade which contacts Pin in Base C-115-1 should be just touching Pin without excessive pressure. Gap between switchpoints should be approximately 1/32 in.

### FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name or part number of Assy., (c) part fastener secures.

## SKYROCKET

As illustrated, page 167, with

Cap,	
Blue .....	C-719-16
Red .....	C-719-12
Coil & Bracket Assy. ....	AS-1567-11

As illustrated, page 167, except

Coil .....	A-25-1000
Coil Bracket .....	P-3657-1
Core Plug Assy. ....	A-613-88
Plate, Bakelite .....	P-3656
Switch & Bracket Assy. (3)	AS-982-780
Bracket .....	P-126-29
Plate .....	P-126-154
Switch .....	ASW-A110-1
Switch Plate .....	P-137-5

## FOUR MILLION B.C.

Same as SKYROCKET, excepting

Cap,	
Blue .....	C-719-16
Green .....	C-719-13
Red .....	C-719-12

## EXPRESSWAY

Same as SKYROCKET, excepting

Cap,	
Green .....	C-719-13
Yellow .....	C-719-17

## SEA RAY

## MARINER

Same as SKYROCKET, excepting

Cap,	
Blue .....	C-719-16
Red .....	C-719-12

## FIREBALL

Same as SKYROCKET, excepting

Cap,	
Blue .....	C-719-16
Yellow .....	C-719-17

## EL TORO

Same as EXPRESSWAY

## LITTLE JOE

Same as SKYROCKET, except

Cap,	
Red .....	C-719-12
Yellow .....	C-719-17
Switch & Bracket Assy. (4)	AS-982-780

As detailed under SKYROCKET

## SPACE TIME

Same as LITTLE JOE, excepting

Cap,	
Blue .....	C-719-16
Red .....	C-719-12

## MONTE CARLO

Same as FIREBALL

## ODDS & EVENS

Same as SEA RAY

## TIME ZONE

Same as SPACE TIME

## NIP-IT

Same as LITTLE JOE

## HI-LO ACE

Same as LITTLE JOE, excepting

Cap Assy.,	
Blue .....	A-3713-11
Yellow .....	A-3713-12

## CIRCUS

## BIG SHOW

Same as SKYROCKET, excepting

Cap Assy., Green .....

Also see Bumper Cap Assys., items 12, 14, page 137

## CHAMP

## through\* SKY KINGS

Same as SKYROCKET, except

CAP,	
Green .....	A-3713-8
Yellow .....	A-3713-12
Switch & Bracket Assy. (2)	AS-782-780

As detailed under SKYROCKET

## AMIGO

Same as SKYROCKET, excepting

Cap Assy.	
Blue .....	A-3713-11
Yellow .....	A-3713-12

## DELTA QUEEN

Same as SKYROCKET, excepting

Cap Assy., Blue .....	A-3713-11
-----------------------	-----------

## ROGO

Same as CHAMP, excepting

Cap Assy.,	
Blue .....	A-3713-7
Red .....	A-3713-11

CONTINUED  
ON  
NEXT PAGE

\*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# THUMPER BUMPER VARIATIONS

## BON VOYAGE

Same as in CHAMP

## BOOMERANG

Same as in SKYROCKET, except

Cap Assy. . . . . A-3713-7  
Switch & Bracket Assy. (1) AS-982-780  
As detailed under SKYROCKET

## FLICKER

Same as in BOOMERANG, excepting

Cap Assy. . . . . A-3713-11

## AIR ACES

Same as CHAMP except

Cap Assy. (2 used) . . . . . A-3713-16

## KNOCKOUT

Same as CHAMP, except

Cap Assy.  
Green . . . . . A-3713-8  
Red . . . . . A-3713-7

## WIZARD

Same as in SKYROCKET, except

Cap Assy.,  
Green . . . . . A-3713-8  
Yellow . . . . . A-3713-12  
Switch & Bracket Assy. (2) AS-982-780  
As detailed under SKYROCKET

## HI-DEAL

Cap Assy.

100 (2 used) . . . . . A-3713-17  
10 (1 used) . . . . . A-3713-22  
Coil Bracket Assy. . . . . AS-1567-12  
As illustrated, page 167, with  
Coil . . . . . AP-27-1300  
Coil Bracket . . . . . P-3657-1  
Core Plug Assy. . . . . A-613-101  
Plate, Bakelite . . . . . P-3656  
Spring, Compression . . . . . SP-200-196

### D.C. COMPONENTS

Attached to underside of Playfield,  
directly adjacent to Flippers,  
purpose of D.C. components  
is to convert power to operate  
Thumper Bumpers and Slingshot Kickers,  
from Alternating Current  
to Direct Current,  
greatly adding to force of action.

D.C. components are:

Bridge Rectifier  
(small black box) . . . . . E-602-1  
Capacitor  
(small yellow tube) . . . . . E-586-58  
Fuse . . . . . E-133-5  
Fuse Block . . . . . E-148  
Switch & Bracket Assy. (3) AS-982-1088  
Bracket . . . . . P-126-727  
Switch . . . . . ASW-A110-4  
Switch Plate,  
Flat . . . . . P-126-154  
Spring . . . . . P-137-5  
Switch Screw (2) . . . . . MSSR-00540-1120  
Thumper Bumper Assy. . . . . AS-2222-4  
As illustrated, page 167

## BOW AND ARROW

Same as in HI-DEAL, except

Cap Assy.  
A . . . . . A-3713-1  
B . . . . . A-3713-2  
C . . . . . A-3713-3  
D . . . . . A-3713-4  
Diode (4) . . . . . E-587-16  
Switch & Bracket Assy. (4) AS-982-1088  
As detailed under HI-DEAL

## FLIP-FLOP

Same as in HI-DEAL, except

Cap Assy. (2) . . . . . A-3713-17  
Diode (2) . . . . . E-587-16  
Switch & Bracket Assy. (2) AS-982-1088  
As detailed under HI-DEAL

## HOKUS POKUS

Same as in HI-DEAL, except

Cap Assy. (2) . . . . . A-3713-22  
Diode (2) . . . . . E-587-16  
Switch & Bracket Assy. (2) AS-982-1088  
As detailed under HI-DEAL

## OLD CHICAGO

Same as in HI-DEAL, except

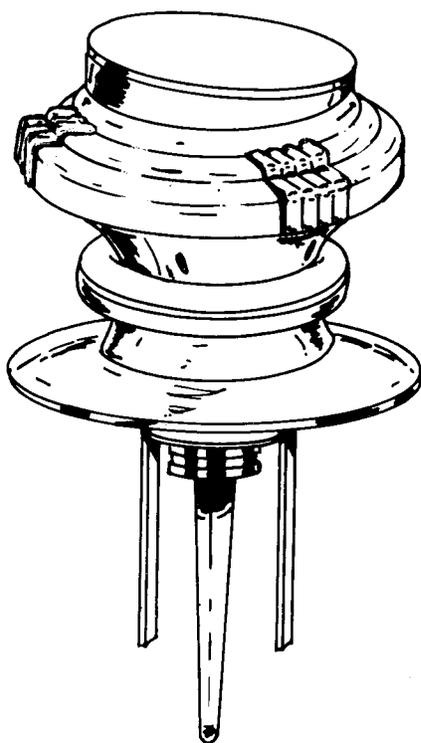
Cap Assy.,  
10 (3) . . . . . A-3713-22  
100 (2) . . . . . A-3713-23  
Diode (5) . . . . . E-587-16  
Switch & Bracket Assy. (5) AS-982-1088  
As detailed under HI-DEAL

## CAPT. FANTASTIC

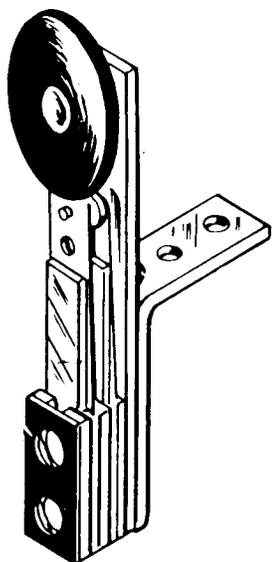
Same as in HI-DEAL, except

Cap Assy. (3) . . . . . A-3713-26  
Diode (3) . . . . . E-587-16  
Switch & Bracket Assy. (3) AS-982-1088  
As detailed under HI-DEAL

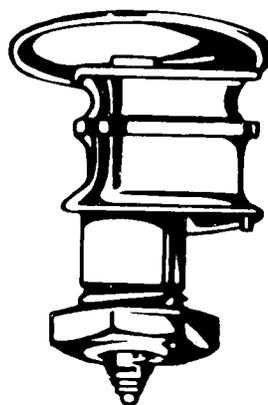
# **BUMPER ASSY. AS-2222-5**



## **TARGET ASSYS.**



## **MUSHROOM BUMPER ASSYS.**

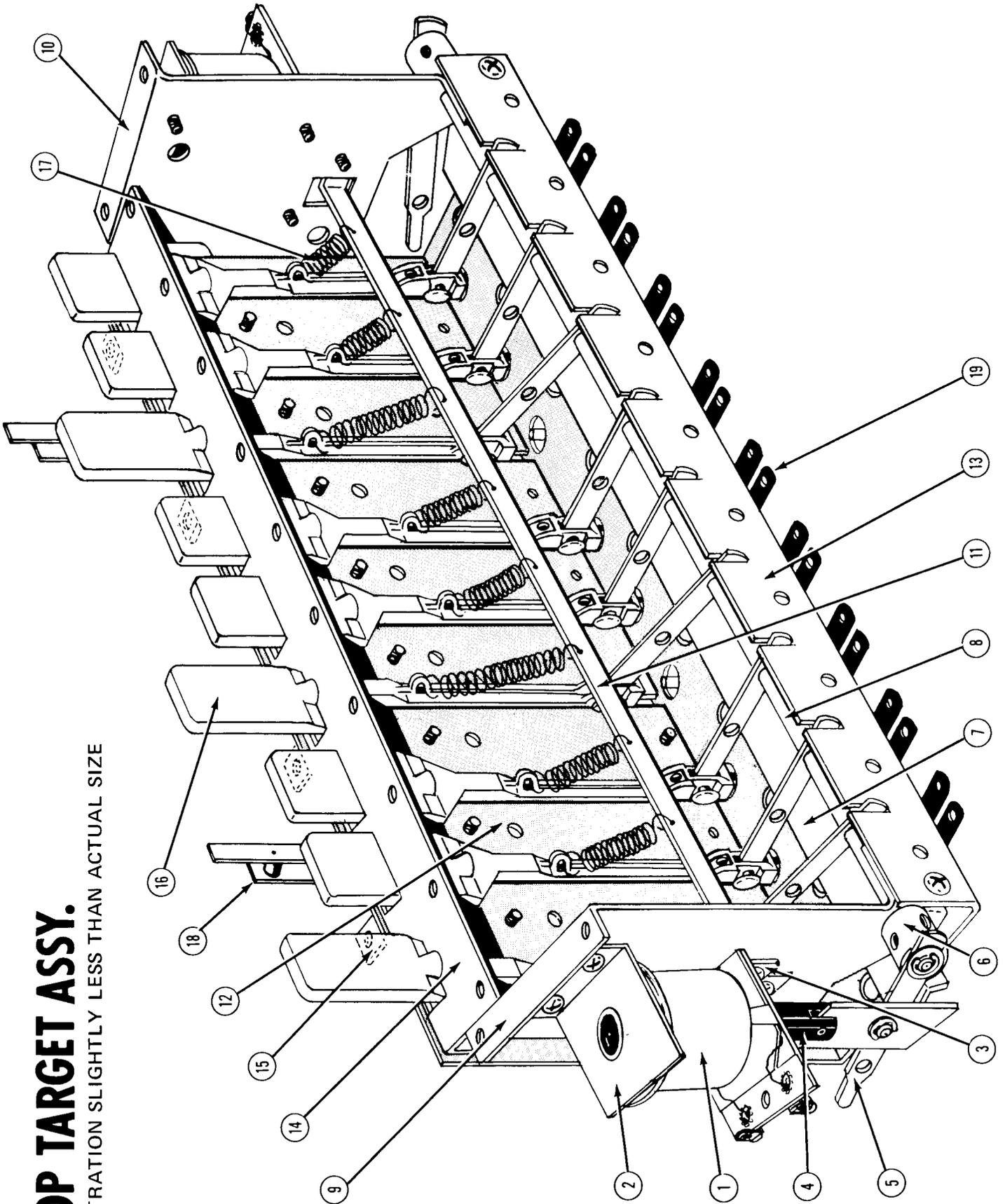


**For details of above 3 Assys.  
see Playfield Charts commencing page 124**

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# DROP TARGET ASSY.

ILLUSTRATION SLIGHTLY LESS THAN ACTUAL SIZE



# INDEX TO ILLUSTRATION, PAGE 271

## AIR ACES

- DROP TARGET ASSY. . . . . AS-2795-9  
AS ILLUSTRATED ABOVE
- ① Coil, Reset . . . . . N-24-800
  - ② Core Plug Assy. . . . . A-613-99  
SECURED TO END PLATE
  - ③ BY 2 SCREW . . SFPP-00832-1104  
Coil Bracket . . . . . P-2236-20  
SECURED TO END PLATE
  - ④ BY 2 SCREW . . SFPP-00832-1104  
Solenoid-Link Assy. . . . . A-3392  
SECURED TO LINK  
AND RESET ARM
  - BY RETAINING RING . P-6316-5
  - AND SHOULDER STUD S-458-26
  - ⑤ Link . . . . . P-1973-337  
SECURED TO SHAFT
  - BY PLAIN WASHER . . PW-250-12
  - AND RETAINING RING P-6316-6
  - ⑥ Bushing . . . . . S-1969  
SECURED TO SHAFT
  - BY 2 SET SCREW . . . . . M-1369-6

### Items 1 through 6

are duplicated at opposite end

- ⑦ Reset Arm . . . . . P-1440-9
- ⑧ Shaft . . . . . S-739-209
- ⑨ End Plate, Left . . . . . P-1369-1
- ⑩ End Plate, Right . . . . . P-1369
- ⑪ Spring Bracket . . . . . P-1350-9  
SECURED TO END PLATES
- BY 2 SCREW . . SFPP-00832-1104
- ⑫ Side Plate . . . . . P-1445-9  
SECURED TO END PLATES
- BY 2 SCREW . . SFPP-00832-1104
- ⑬ Bottom Plate . . . . . P-1501-9  
SECURED TO END PLATES
- AND SIDE PLATE
- BY 6 SCREW . . SFPP-00832-1104
- ⑭ Latch Plate . . . . . P-1370-9  
SECURED TO SIDE PLATE
- BY 4 SCREW . SFPP-00832-1104
- ⑮ Mounting Bracket (4) . . P-126-709  
EACH SECURED TO SIDE PLATE
- BY 2 SCREW . . TTPP-00540-1104
- ⑯ Target Assy. (9) . . . . . A-3773  
EACH SECURED TO LINK
- BY RETAINING RING . P-6316-6
- AND SHOULDER STUD S-458-27

## AIR ACES

DROP TARGET ASSY. . . . . AS-2795-9  
CONTINUED

- ⑰ Spring . . . . . SP-100-314
- ⑱ Switch (2) . . . . . ASW-A10-1  
EACH SECURED TO SIDE PLATE
- BY SPRING PLATE . . P-137-5
- AND 2 SCREW . TTPP-00540-1112
- ⑲ Switch (9) . . . . . ASW-A1-115  
EACH SECURED TO BOTTOM PLATE
- BY SPRING PLATE . . P-137-5
- AND 2 SCREW . TTPP-00540-1108
- ⑳ Switch (9) . . . . . ASW-A1-123  
Not visible
- Mounted on back of Side Plate
- EACH SECURED TO SIDE PLATE
- BY SPRING PLATE . . P-137-5
- AND 2 SCREW . TTPP-00540-1112

### IMPORTANT NOTE

3/32 in. air gap required  
between each of 20 Switches  
and adjacent Plates

## OLD CHICAGO

DROP TARGET ASSY. . . . . AS-2795-5  
Same as AS-2795-9, AIR ACES, except  
quantity of some parts reduced  
by reduction in quantity of Target Assys.  
and following parts changed

- ① Coil, Reset . . . . . N-21-650
- ⑦ Reset Arm . . . . . P-1440-5
- ⑧ Shaft . . . . . S-739-220
- ⑨ End Plate, Left . . . . . P-1369-2
- ⑩ Spring Bracket . . . . . P-1350-5
- ⑪ Side Plate . . . . . P-1445-5
- ⑫ Bottom Plate . . . . . P-1501-5
- ⑬ Latch Plate . . . . . P-1370-5

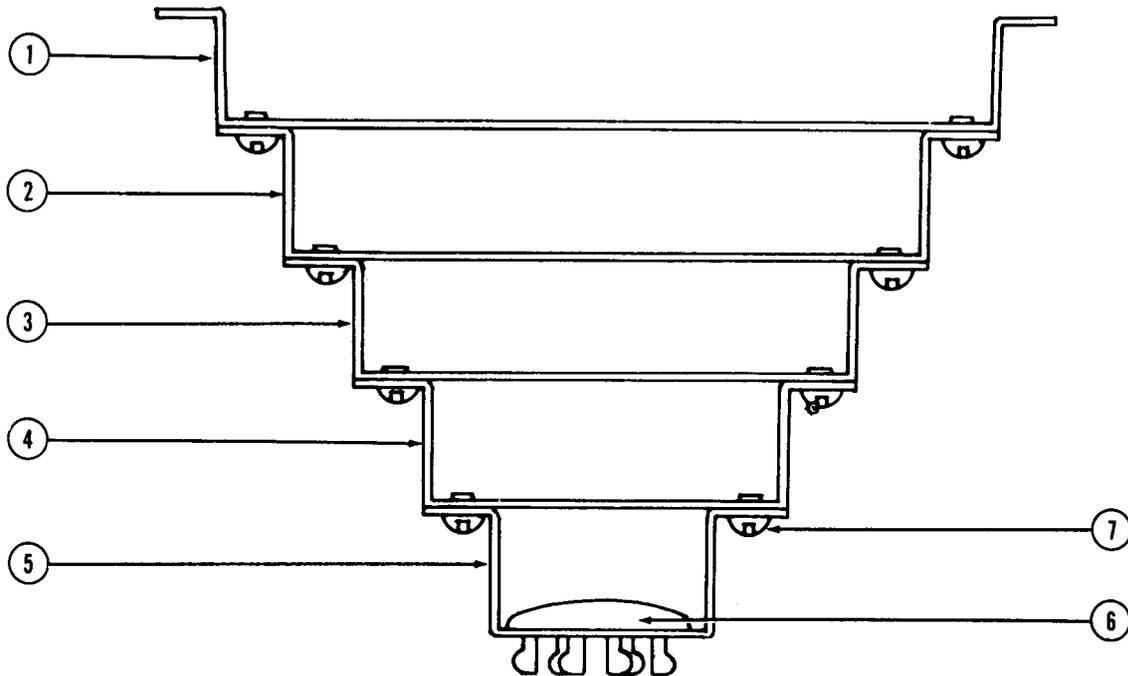
## CAPT. FANTASTIC

DROP TARGET ASSY. . . . . AS-2795-51  
Same as AS-2795-5, OLD CHICAGO, with

- ⑨ End Plate, Left . . . . . P-1369-1
- ⑯ Target Assy. . . . . A-3773-1

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLASHER TARGET ASSY. AS-2693-1



**Target Bracket,**

- ① Yellow (1000) ..... P-7641-13
- ② Red (2000) ..... P-7641-12
- ③ Blue (3000) ..... P-7641-10
- ④ Green (4000) ..... P-7641-11
- ⑤ Red ..... P-7641-14
- ⑥ Hole Plug, White (5000) ..... C-776-2
- ⑦ Screw, Sheet Metal,  
Type Z, Zinc Plated,  
No. 6 x 3/16 in. long  
(20 used) ..... SMZ-6-3-511

**NOT ILLUSTRATED**

- Lamp Socket,**
- ⑧ 1 used ..... E-120-155
  - ⑨ 16 used ..... E-120-158
  - ⑩ Lamp, No. 44 ..... E-125-22
- USED WITH, NOT INCLUDED IN ASSY.**
- ⑪ Playfield Window ..... M-1499
  - ⑫ Window Gasket ..... M-1398

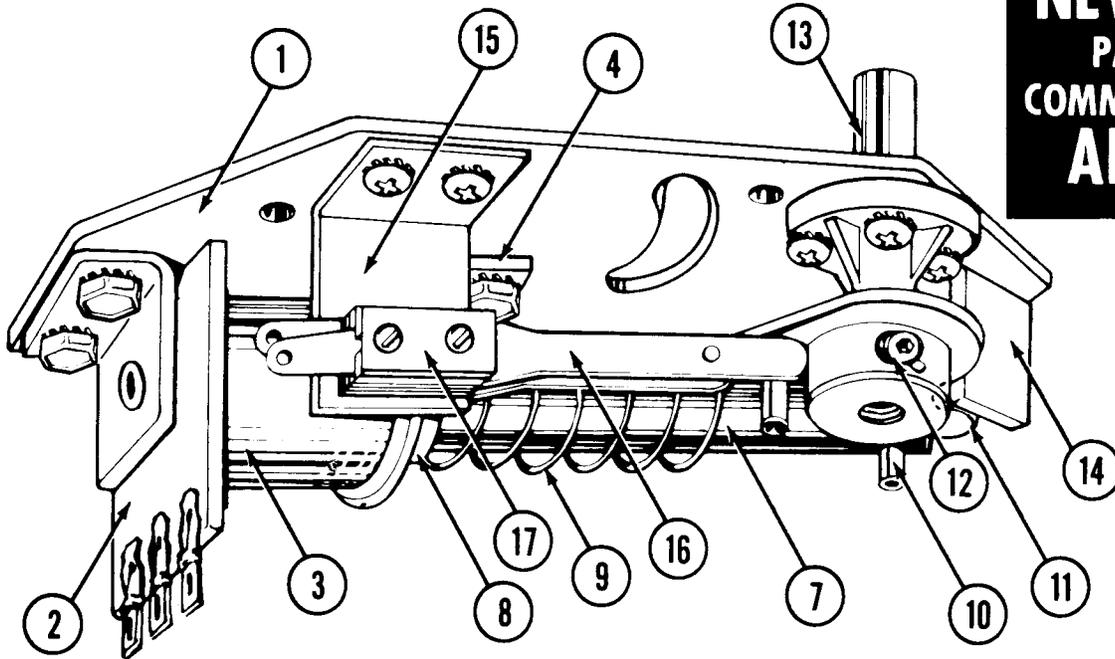
**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# FLIPPER UNITS

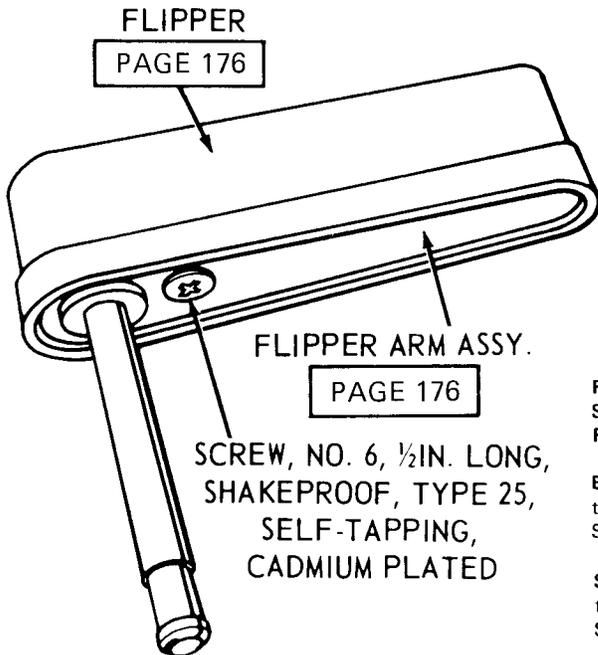
SEE PAGE 176 FOR VARIATIONS

**NEW STYLE**  
**PAGE 177**  
**COMMENCING WITH**  
**AIR ACES**



## FLIPPER & PIN ASSYS.

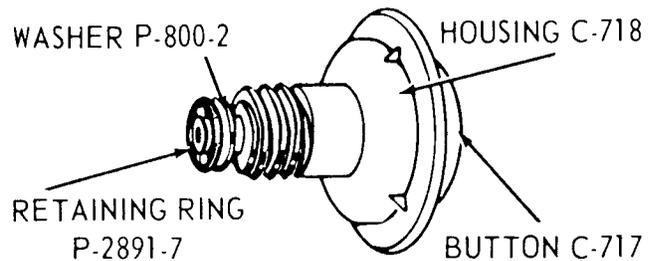
SEE PAGE 176 FOR VARIATIONS



FLIPPER ARM ASSY.  
 PAGE 176

SCREW, NO. 6, 1/2 IN. LONG,  
 SHAKEPROOF, TYPE 25,  
 SELF-TAPPING,  
 CADMIUM PLATED

## FLIPPER BUTTON



### FLIPPER BUTTON ASSY.

**SKYROCKET,**  
**FOUR MILLION B.C.** . . . . . AS-2443  
 As illustrated above  
**EXPRESSWAY,** later games\*  
 through **TWIN WIN** . . . . . AS-2443-1  
 Same as AS-2443, above, with  
 Spring (ADDED) (not visible) SP-459-1  
**SKY KINGS,** later games\*  
 through **WIZARD** . . . . . AS-2443-2  
 Same as AS-2443-1, above, with  
 Housing . . . . . C-877  
 Washer . . . . . P-801-258  
**HI-DEAL,** later games  
 See listings, page 176,  
 commencing with HI-DEAL

### FLIPPER BUTTON, PARTS RELATED TO

Pal Nut . . . . . M-1314-2  
 Switch  
**SKYROCKET, FOUR MILLION B.C.**  
 Left Button . . . . . ASW-A-1010  
 Right Button . . . . . ASW-A-10-3  
**EXPRESSWAY,** later games\*  
 through **CHAMP**  
 Left Button . . . . . ASW-A-1010-1  
 Right Button . . . . . ASW-A-10-22  
**TWIN WIN**  
 Left Button . . . . . ASW-1110  
 Right Button . . . . . ASW-1010-1  
**SKY KINGS,** later games\*  
 through **WIZARD**  
 left Button . . . . . ASW-A-1010-2  
 Right Button . . . . . ASW-A-10-27  
 Switch Plate,  
 Flat, (2) . . . . . P-126-155  
 Spring (2) . . . . . P-137-5  
**HI-DEAL,** later games\*  
 See listings, page 176  
 commencing with HI-DEAL

## RUBBER RINGS

SEE PLAYFIELD CHARTS  
 COMMENCING PAGE 185

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

\*See chronological list of games, pages 1, 2.

# ← INDEX TO ILLUSTRATION, PAGE 175

- ① Base Plate  
Left . . . . . P-3691-18  
Right . . . . . P-3691-19
- ② Core Plug Assy. . . . . A-613-67  
SECURED BY  
Lockscrew (2) . . .LS-832-5-810
- ③ Coil  
See Game Listings below
- ④ Coil Bracket. . . . . P-108-53  
SECURED BY  
Lockscrew (2) . . .LS-832-5-810

- ⑦ Plunger . . . . . S-496-167
- ⑧ Guide Ring (not visible) . C-342
- ⑨ Spring, Compression . . . SP-240
- ⑩ Roll Pin . . . . . P-1637-1
- ⑪ Lever Arm Assy.  
Left . . . . . A-1889-8  
Right . . . . . A-1889-7
- ⑫ Set Screw (2)  
See Games Listings below
- ⑬ Bearing, Nylon. . . . . C-649  
SECURED BY  
Screw (3) . . . . . MS-632-5-510

- ⑭ Stop Bracket . . . . . P-6256  
SECURED BY  
Lockscrew (2) . . .LS-832-5-810
- ⑮ Switch Bracket . . . . . P-126-559  
SECURED BY  
Lockscrew (2) . . .LS-632-3-511
- ⑯ Switch . . . . . ASW-A20-1  
SECURED BY  
Screw (2) . . . . . MS-540-7-110
- ⑰ Switch Plate (Spring) . . . P-137-5

## FLIPPER UNITS

### SKYROCKET

Flipper & Pin Assy. (2) . . . . AS-2214-19  
As illustrated, page 175, with  
Flipper . . . . . C-611-5  
Flipper Arm Assy. . . . . A-2747-6  
Flipper Unit,  
Left . . . . . AS-1587-72  
Right . . . . . AS-1587-71  
As illustrated, page 175, with  
Coil . . . . . AF-26-750/31-900  
Set Screw . . . . . M-1369

### FOUR MILLION B.C.

Flipper & Pin Assy.  
Left . . . . . AS-2214-7  
As illustrated, page 175, with  
Flipper . . . . . C-609-5  
Flipper Arm Assy. . . . . A-2747-4  
Right . . . . . AS-2214-6  
Same as AS-2214-7, above, with  
Flipper . . . . . C-610-5  
Flipper Unit (Flipper Zipper)  
See page 179  
Switch & Bracket Assy. . . . . AS-982-588  
Bracket . . . . . P-126-548  
Switch,  
LISTED FROM  
SWITCH PLATE END  
OF STACK  
Top . . . . . ASW-A2-39  
Bottom. . . . . ASW-A11-3  
Switch Plate (Spring) . . . . . P-137-5  
Switch Screw (2) . . . . . MS-540-20-510

### EXPRESSWAY

Same as in SKYROCKET

### SEA RAY

Same as in SKYROCKET, excepting  
Flipper Unit,  
Left . . . . . AS-1587-78  
Right . . . . . AS-1587-79  
As illustrated, page 175, with  
Coil . . . . . AF-26-650/30-1200  
Set Screw (2) . . . . . M-1590

### MARINER

Same as in SEA RAY, with  
Coil . . . . . AF-26-600/31-1000

### FIREBALL

Same as FOUR MILLION B.C., with  
Switch & Bracket Assy. . . . . AS-982-894  
Same as AS-982-588,  
FOUR MILLION B.C. excepting  
Switch,  
Top . . . . . ASW-A2-50  
Middle . . . . . ASW-A2-39  
Bottom . . . . . ASW-A11-3  
Switch Screw (2) . . . . . MS-540-24-510

### EL TORO

Same as in SKYROCKET

### LITTLE JOE

### SPACE TIME

Same as in SEA RAY

### MONTE CARLO

Same as SKYROCKET, excepting  
Flipper Units  
Left . . . . . AS-1587-81  
Right . . . . . AS-1587-82  
As illustrated, page 175, with  
Coil . . . . . AF-25-600/28-800  
Set Screw . . . . . M-1369

### ODDS & EVENS

### TIME ZONE

Same as in SEA RAY

### NIP-IT

Same as FOUR MILLION B.C., with  
Switch & Bracket Assy. . . . . AS-982-972  
Same as AS-982-588,  
FOUR MILLION B.C., with  
Switch,  
Top . . . . . ASW-A2-50  
Middle . . . . . ASW-A1-109  
Bottom . . . . . ASW-A2-39  
Switch Screw (2) . . . . . MS-540-18-110

### HI-LO ACE

Same as SEA RAY

### CIRCUS

through\* **CHAMP**  
Same as in MONTE CARLO

### TWIN WIN

Lower Flippers  
Same as in MONTE CARLO  
Upper Flippers  
Same as in SEA RAY

### SKY KINGS

through\* **FLICKER**  
Same as in MONTE CARLO

CONTINUED  
ON  
NEXT PAGE

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLIPPER UNITS

## AIR ACES

### Bottom Flippers

#### LEFT

- Base Plate Assy. . . . . AS-1587-87
- Bracket . . . . . P-6264-117
- Coil . . . . . AF-25600-800
- Core Plug Assy. . . . . A-613-67
- Screw (4) . . . . . SFPP-00832-1106
- Solenoid bracket . . . . . P-108-3
- Bearing . . . . . C-649-5
- Flipper Pin Assy. . . . . AS-2214-21
- Arm Assy. . . . . A-2747-8
- Flipper . . . . . C-611-5
- Screw . . . . . SYPB-00600-1108
- Lever Arm Assy. . . . . A-3711-1
- Plunger-Link Assy. . . . . A-3714
- Set Screw (2) . . . . . M-1369
- Spring, Compression . . . . . SP-200-185
- Stop Bracket . . . . . P-6665-409
- Switch Bracket Assy. . . . . AS-982-1041
- Bracket . . . . . P-126-408
- Screw (2) . . . . . MSSR-00540-1107
- Switch . . . . . ASW-A20-23
- Switch Plate . . . . . P-137-5

#### RIGHT

Same as LEFT, except

- Lever Arm Assy. . . . . A-3711
- Switch-Bracket Assy. . . . . AS-982-1040
- Same as AS-982-1041,
- LEFT, above,
- with Switch position reversed

### Top Flippers

#### LEFT

Same as **Bottom Flippers**,

LEFT, except

- Flipper-Pin Assy. . . . . AS-2214-23
- Arm Assy. . . . . A-2747-10
- Flipper Assy. . . . . A-3739
- Screw . . . . . SYPB-00600-1108

#### RIGHT

Same as **Bottom Flippers**,

RIGHT, except

- Flipper-Pin Assy. . . . . AS-2214-22
- Same as AS-2214-23,
- LEFT, above, except
- Flipper Assy. . . . . A-3739-1

## KNOCKOUT, WIZARD

Same as AIR ACES,

**Bottom Flippers**



## HI-DEAL

### BOW AND ARROW

**Flipper & Shaft Assy. (2)** . . . . AS-2214-24  
Similar to illustration, page 175, with

- Flipper . . . . . C-611-5
- Flipper Arm Assy. . . . . A-2747-11

#### Flipper Assy.

- Left Flipper . . . . . AS-1587-88
- Right Flipper . . . . . AS-1587-89
- As illustrated, page 178,
- with differences between Left, Right
- called out in listing

#### Flipper Button Components (2 sets)

NO ASSY. NUMBER

- Button . . . . . C-905
- Button Housing (plastic) . . . . C-904
- Mounting Plate . . . . . P-1556

**Switch (2)** . . . . . ASW-A10-41

**Switch Plate (2)** . . . . . P-137-5

⑨ **Switch & Bracket Assy. (4)** . . . . AS-982-1051

- Bracket . . . . . P-126-471
- Switch . . . . . ASW-A10-40
- Switch Plate . . . . . P-137-5
- Switch Screw (2) . . . . . MSSR-00540-1108

### FLIP FLOP

Same as in HI-DEAL, except

**Flipper & Shaft Assy.**

- (4 USED) . . . . . AS-2214-24

#### Flipper Assy.

##### Bottom Flippers

Same as in HI-DEAL

##### Top Flippers

- Left . . . . . AS-1587-95
- Right . . . . . AS-1587-96
- Same as Bottom Flippers, except
- Coil . . . . . AF-26650-800

**Flipper Button Assy. (2)** . . . . AS-2443-2

As described, page 175

**Switch (2)** . . . . . AS-10-27

### HOKUS POKUS

Same as HI-DEAL

### OLD CHICAGO

Same as HI-DEAL, without

**Switch & Bracket Assy.**

## CAPT. FANTASTIC

Same as HI-DEAL with added

**Flipper Units, Upper**

LEFT . . . . . AS-1586-98

RIGHT . . . . . AS-1857-97

As illustrated, page 178, with

⑨ **Switch & Bracket Assy.**

LEFT . . . . . AS-982-1115

Same as item 9, page 178, with

added

**Switch (Make)** . . . . . ASW-A10-45

RIGHT . . . . . AS-982-1116

Same as AS-982-1115, above,

with position of Bracket reversed

⑩ **Lever Arm Assy.,**

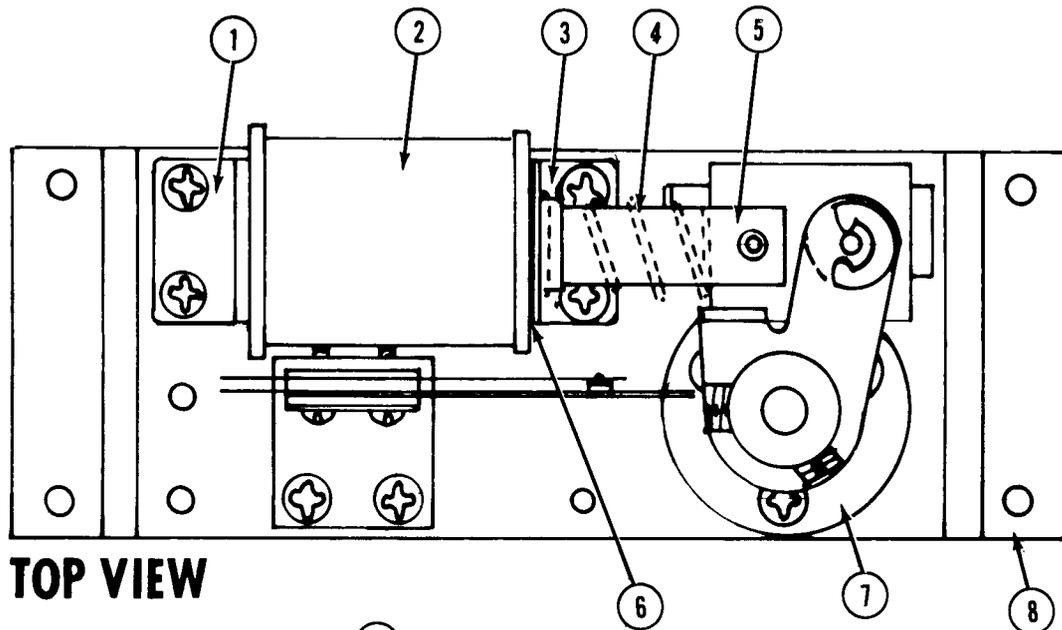
LEFT . . . . . A-3711-3

RIGHT . . . . . A-3711-2

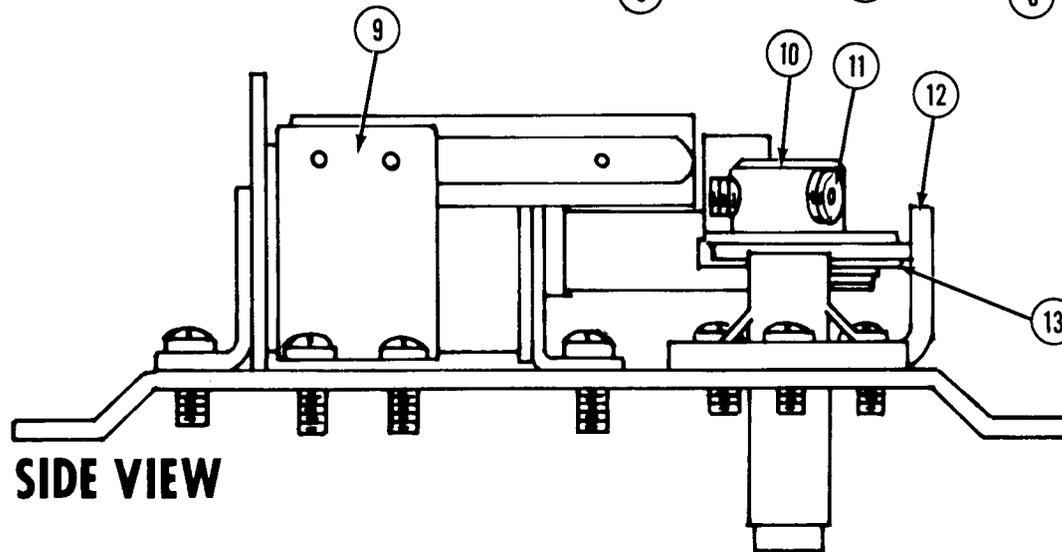
\*See chronological list of games, page 6.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLIPPER UNITS (NEW)



**TOP VIEW**



**SIDE VIEW**

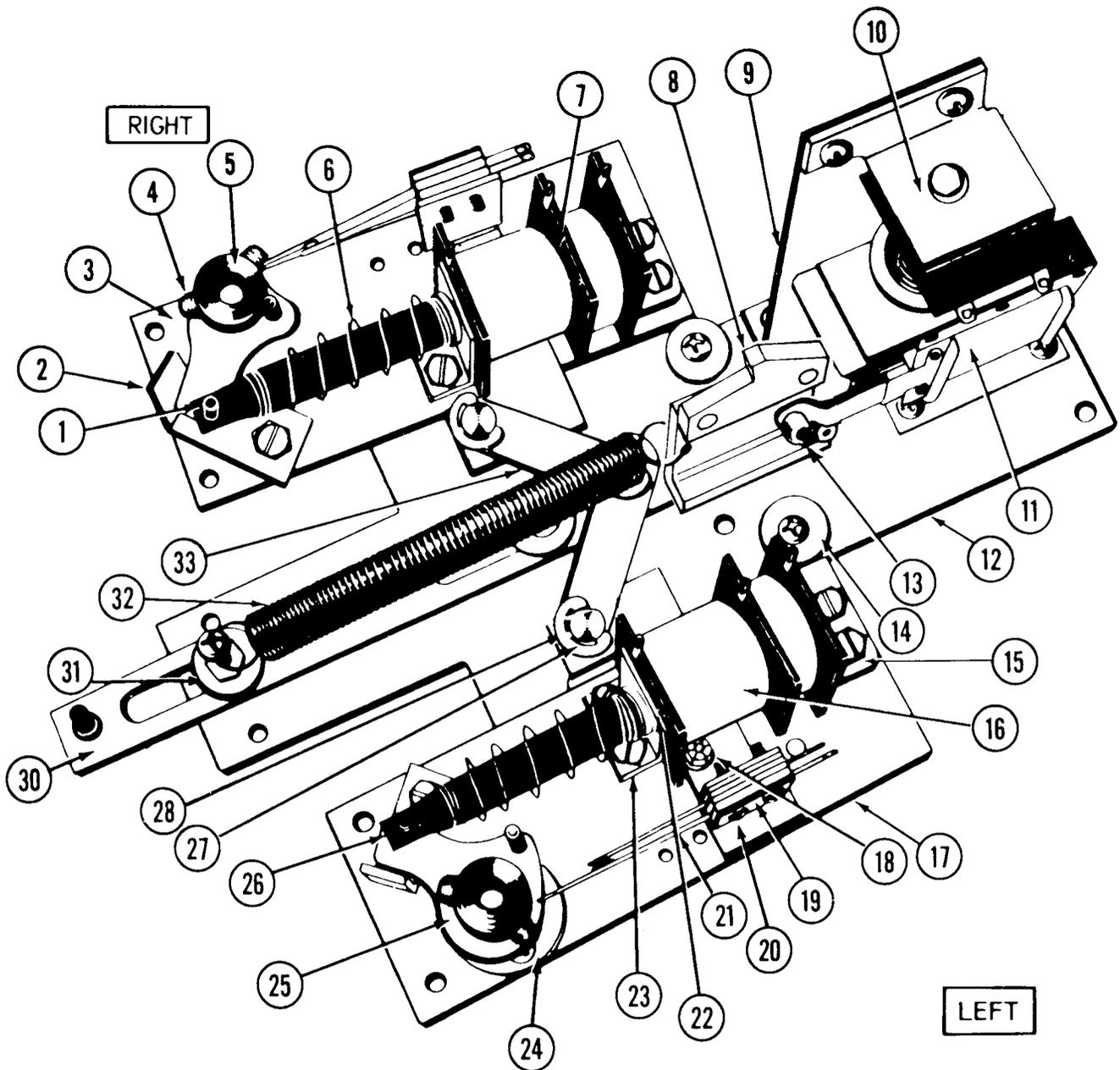
- ① Core Plug Assy. . . . . A-613-67  
SECURED TO MOUNTING BRACKET  
BY 2 SCREW . . . SFPP-00832-1106
- ② Coil . . . . . AF-25500-1000
- ③ Coil Bracket . . . . . P-108-53
- ④ Spring, Compression. . . . . SP-200-185
- ⑤ Plunger & Link Assy. . . . . A-3714-1
- ⑥ Spring Washer. . . . . P-1158-6
- ⑦ Bearing. . . . . C-649-53  
SECURED TO MOUNTING BRACKET  
BY 3 SCREW . . . SFPP-00832-1106
- ⑧ Mounting Bracket . . . . . P-6264-134

- ⑨ Switch & Bracket Assy.  
SECURED TO MOUNTING BRACKET  
BY 2 SCREW . . . SFPP-00832-1106
- Left Flipper . . . . . AS-982-1043
- Bracket . . . . . P-126-718
- Switch . . . . . ASW-A20-23
- Switch Plate . . . . . P-137-5
- Switch Screw (2) MSSR-00540-1107
- Right Flipper . . . . . AS-982-1044  
Same as AS-982-1043, above,  
except position of Bracket reversed

- ⑩ Lever Arm Assy.  
SECURED TO  
PLUNGER & LINK ASSY.  
BY RETAINING RING . P-6316-5
- Left Flipper . . . . . A-3711-2
- Right Flipper . . . . . A-3711-3
- ⑪ Set Screw  
(2 used each Flipper) . . . M-1369
- ⑫ Flipper Stop. . . . . P-6665-444
- ⑬ Washer . . . . . P-801-590

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLIPPER-ZIPPER ASSY. PATENT NO. 2,642,290



- 35 FLIPPER & PIN ASSY: See Game Listings, page 176.
- 36 FASTENERS: See page 180 at 36.
- 37 MISCELLANEOUS PARTS: See page 180 at 37.
- 38 SWITCH & BRACKET ASSY.: See Game Listings, page 176.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLIPPER-ZIPPER INDEX

Circled numbers below correspond to circled numbers which indicate parts on page 179. Numbers in parentheses indicate quantity of each part used.

- ① Roll Pin (2) ..... P-1637-1
- ② Bracket (2)..... P-6256
- ③ Base Plate Assy., Right (1) ..... A-1888-20  
Also see Item 17
- ④ Set Screw (4) ..... M-1369
- ⑤ Lever Arm Assy., Right (1)..... A-1889-7
- ⑥ Spring, Compression (2)..... SP-240
- ⑦ Guide Ring (not visible) (2) .... C-342
- ⑧ Latch Bracket Assy. (1) ..... A-3112
- ⑨ Latch Magnet Bracket (1)..... P-6665-53
- ⑩ Latch Magnet Assy. (1) ..... AS-2517  
(See detailed sketch below.)
- ⑪ Solenoid (1)..... E-184-239
- ⑫ Base Plate (1)..... P-6841
- ⑬ Following parts used at 13
  - Bushing (2)..... S-231-712
  - Cotter Pin, Steel (1) ..... 1/16" Dia.x7/8"
  - Roll Pin (1)..... P-1637-10
  - Tube, Zinc (2) ..... S-231-710
- ⑭ Washer (6)..... P-801-107
- ⑮ Core Plug Assy. (2)..... A-613-67

- ⑯ Coil (2) ..... AF-25-600/31-1000
- ⑰ Base Plate, Left (1) ..... A-1888-19  
Also see Item 3
- ⑱ Elastic Stop Nut (2)..... M-319-4
- ⑲ Switch Plate (Spring (2)..... P-137-5
- ⑳ Switch Bracket (2)..... P-126-559
- ㉑ Switch
  - Left ..... ASW-A20-13
  - Right ..... ASW-A20-12
- ㉒ Spring Washer (not visible) (2) .. P-1158-6
- ㉓ Solenoid Bracket (2) ..... P-108-53
- ㉔ Nylon Bearing (2)..... C-649
- ㉕ Lever Arm Assy., Left (1)..... A-1889-8
- ㉖ Plunger (2)..... S-496-167
- ㉗ Retaining Ring (3) ..... P-6316-6
- ㉘ Nyliner (not visible) (4) ..... C-537-5
- ㉙ Latch Assy. (1) ..... A-3088-2
- ㉚ Bushing (2) ..... S-156-441
- ㉛ Spring, Extension (1) ..... SP-100-252
- ㉜ Link (1) ..... P-1973-160
- ㉝ Fasteners

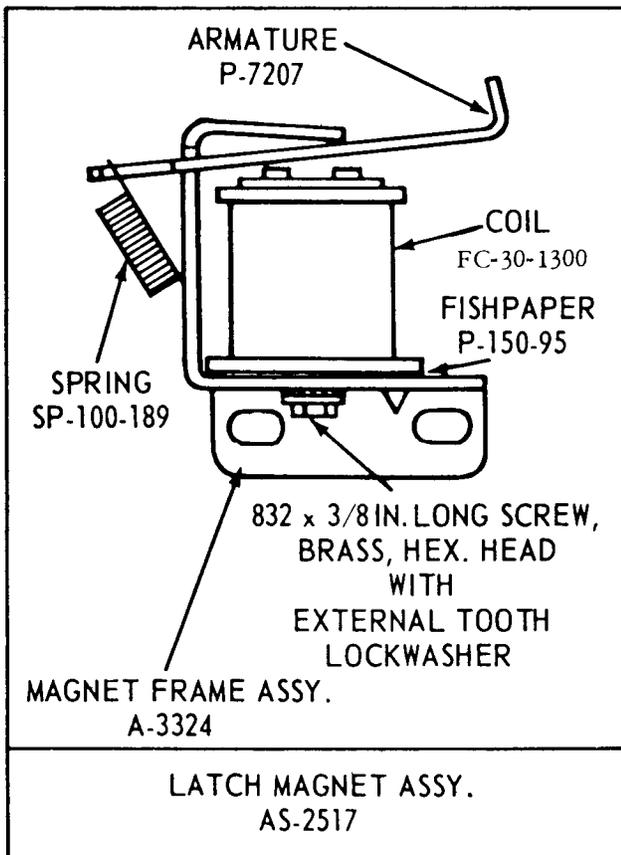
Order nuts, screws, washers by name or description with reference to

- (a) Moveable Flipper Unit,
- (b) Name of game,
- (c) Part fastener secures

## ⑳ MISCELLANEOUS PARTS

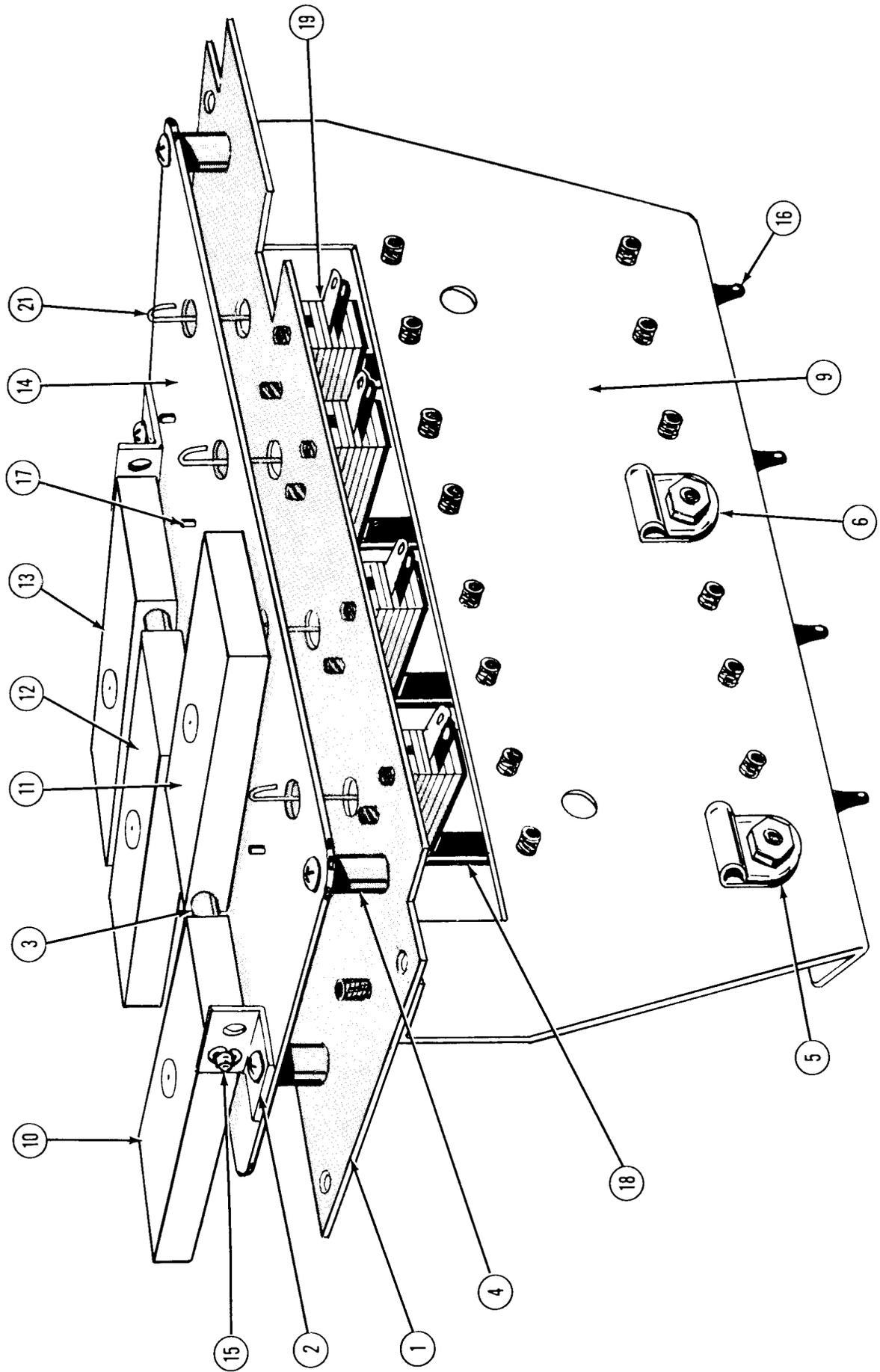
Not visible in drawing

- Fishpaper (Insulator) (2) .... P-150-85  
3-3/4 in. by 7/8 in.
- Shoulder Bushing (2) ..... S-156-446  
Length of shoulder: 1/16 in.  
Large dia.: 1 in.
- Washer (Nylon)  
5/8 in. outside dia. (2) .... P-801-527  
1 in. outside dia. (4)..... P-801-523



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FLIP UNIT ASSYS.



# INDEX TO ILLUSTRATION, PAGE 181

## WIZARD

Flip Unit Assy. AS-2707-2

## FLIP FLOP

Flip Unit Assy. AS-2707-1

Both Assys. are as illustrated with variations indicated below

## FASTENERS

Order nuts, screws, washers by name or description with reference to  
(A) Name of game,  
(B) Above Assy. No.  
(C) Part fastener secures

① Base Plate  
In AS-2707-1 . . . . . P-1537  
In AS-2707-2 . . . . . P-1537-1

② Bearing Bracket . . . . . P-1536

③ Bushing  
3 which separate  
Flapper & Plug Assys. . . . . S-231-809

④ Bushing  
4 which separate  
Panel Plate  
from Base Plate . . . . . S-231-808

⑤ Clip (larger) . . . . . C-271-5

⑥ Clip (smaller) . . . . . C-271-4

⑦ Coil (4) . . . . . CO-30-1700  
NOT VISIBLE  
ON BACK SIDE  
OF COIL MOUNTING BRACKET

⑧ Coil Bracket (8) . . . . . P-108-53

NOT VISIBLE  
ON BACK SIDE  
OF COIL MOUNTING BRACKET

⑨ Coil Mounting Bracket . . . . . P-1538

## FLAPPER & PLUG ASSYS.

Variations in part numbers refer to variations in printing, not shown in illustration. Assys. are listed from left to right of illustration.

In AS-2707-1  
⑩ . . . . . A-3771-5  
⑪ . . . . . A-3771-6  
⑫ . . . . . A-3771-7  
⑬ . . . . . A-3771-8  
In AS-2707-2  
⑩ . . . . . A-3771-9  
⑪ . . . . . A-3771-10  
⑫ . . . . . A-3771-11  
⑬ . . . . . A-3771-12

⑭ Panel Plate  
In AS-2707-1 . . . . . P-1546  
In AS-2707-2 . . . . . P-1546-1

⑮ Pin . . . . . S-739-616  
SECURED  
TO BEARING BRACKETS  
BY 2 RETAINING RING P-2891-2

⑯ Plug Bumper (4) . . . . . R-231-4

⑰ Push Wire Form (4) . . . . . M-121-55

⑱ Striker & Bushing Assy.  
(4 used) . . . . . A-550-7  
Switch (4)

In AS-2707-1 . . . . . ASW-A1-129

In AS-2707-2 . . . . . ASW-A3-29

EACH SECURED TO  
COIL MOUNTING BRACKET BY  
SWITCH PLATE,  
FLAT . . . . . P-126-155  
SPRING . . . . . P-137-5  
2 SCREW . . . . . TTPP-00540-1112

## Target Switch Assy. (4)

NOT SHOWN IN ILLUSTRATION  
ONE LOCATED IN FRONT OF  
EACH FLAPPER  
EACH SECURED AS SWITCH  
BUT WITHOUT FLAT PLATE  
In AS-2707-1 . . . . . A-3359-14  
In AS-2707-2 . . . . . NOT USED

## PARTS USED WITH TARGET SWITCH ASSYS.

In AS-2707-1  
Bumper Post . . . . . C-119-25  
Rubber Rings . . . . . R-243  
In AS-2707-2 . . . . . NOT USED

## ILLUMINATION PARTS

In AS-2707-1  
Lamp (4) . . . . . E-125-22  
Lamp Shield (4) . . . . . M-1779  
Lamp Socket (4) . . . . . E-120-33  
In AS-2707-2 . . . . . NOT USED

⑳ Washer, Plain. . . . . PW-005-12  
ONE USED AT EACH END  
OF PIN (ITEM 15)

㉑ Wire Actuator Assy. (4) . . . . . AS-2806-22  
Bracket . . . . . P-6254-1  
Wire . . . . . M-1336-1

## PARTS NOT ILLUSTRATED

Canoe Clip (4) . . . . . M-1789-6  
No. 6 Clear Tubing (4) . . . . . M-1777-52

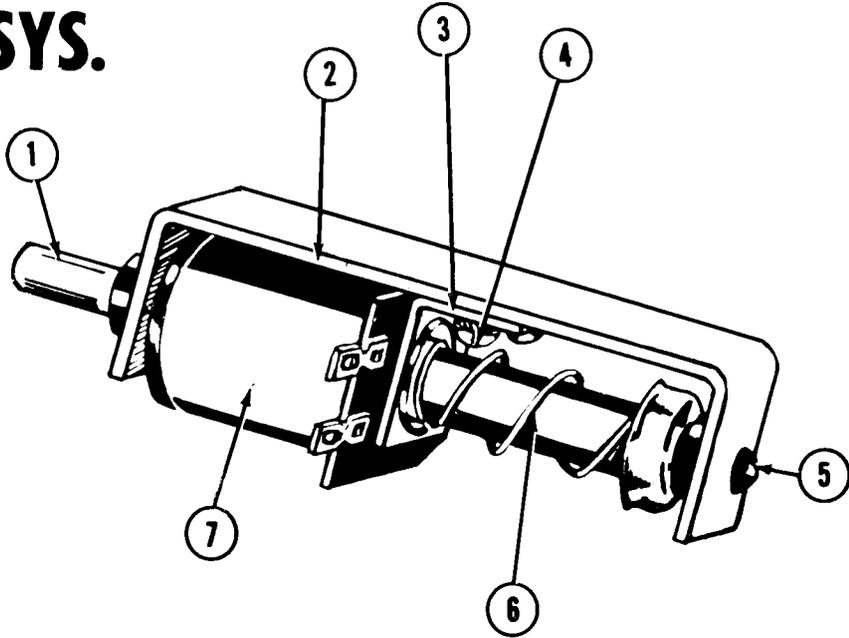
# KICKBACK ASSYS.

## KING REX

Kickback Assy. . . . . AS-2404-3

As illustrated

- ① Plunger & Striker Assy. A-550-4
- ② Kicker Frame . . . . . P-7378
- ③ Solenoid Bracket . . . . . P-108-53
- ④ Screw (2)  
(Solenoid Bracket) . LS-832-3-510
- ⑤ Plug Bumper . . . . . R-231-11
- ⑥ Spring, Compression . . . . . AP-200-171
- ⑦ Coil . . . . . AK-25-1050



## SPACE TIME

## TIME ZONE

Kickback Assy. . . . . AS-2404-4

Same as AS-2404-3, illustrated, with

Plunger & Striker Assy. . . . . A-550-5

Spring, Compression . . . . . SP-200-175

## NIP-IT

## ROGO

Sling-Shot Kicker Assy.

See page 188

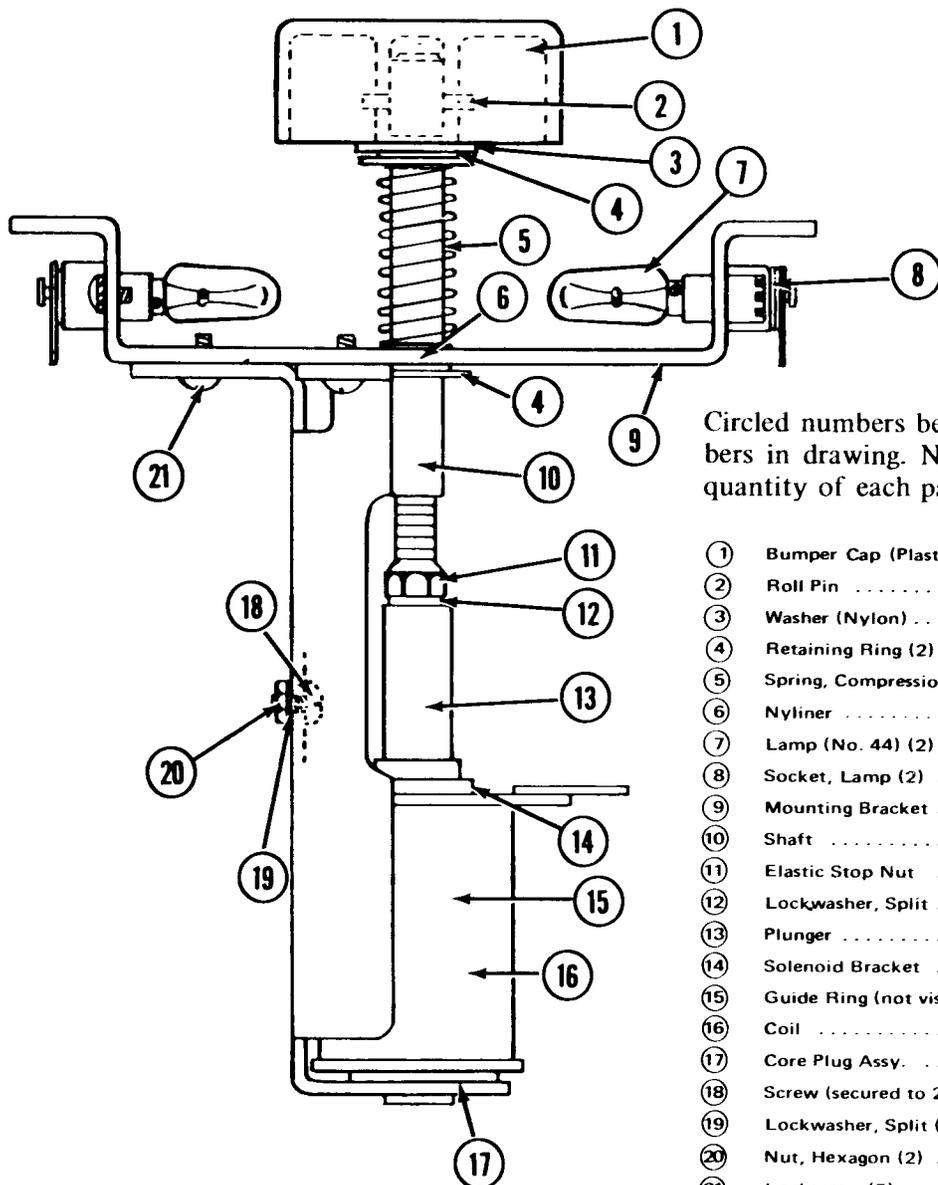
**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# POST ASSY., DISAPPEARING AS-2553 (Play-More Post)

## IMPORTANT

Assy. illustrated below was used in MARINER and earlier games\*, with Play-More Post.

For Play-More Post used in LITTLE JOE and later games\* see pages 185, 186.



Circled numbers below correspond to circled numbers in drawing. Numbers in parentheses indicate quantity of each part used, if in excess of one.

①	Bumper Cap (Plastic) .....	C-810
②	Roll Pin .....	P-1637-58
③	Washer (Nylon) .....	P-801-468
④	Retaining Ring (2) .....	P-2891-6
⑤	Spring, Compression .....	SP-200-178
⑥	Nyliner .....	C-537-5
⑦	Lamp (No. 44) (2) .....	E-125-22
⑧	Socket, Lamp (2) .....	E-120-154
⑨	Mounting Bracket .....	P-7595
⑩	Shaft .....	S-2040
⑪	Elastic Stop Nut .....	M-319-1
⑫	Lockwasher, Split .....	No. 10
⑬	Plunger .....	S-496-188
⑭	Solenoid Bracket .....	P-108
⑮	Guide Ring (not visible) .....	C-342
⑯	Coil .....	AP-31-3000
⑰	Core Plug Assy. ....	A-613-88
⑱	Screw (secured to 20) (2) .....	MS-632-5-112
⑲	Lockwasher, Split (2) .....	No. 6
⑳	Nut, Hexagon (2) .....	N-632-2112
㉑	Lockscrew (5) .....	LS-632-4-512

### TO REPLACE BUMPER CAP

Break off damaged Cap with pliers.

Press new Cap down over Roll Pin P-1637-58.

\*See chronological list of games, pages 1, 2.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

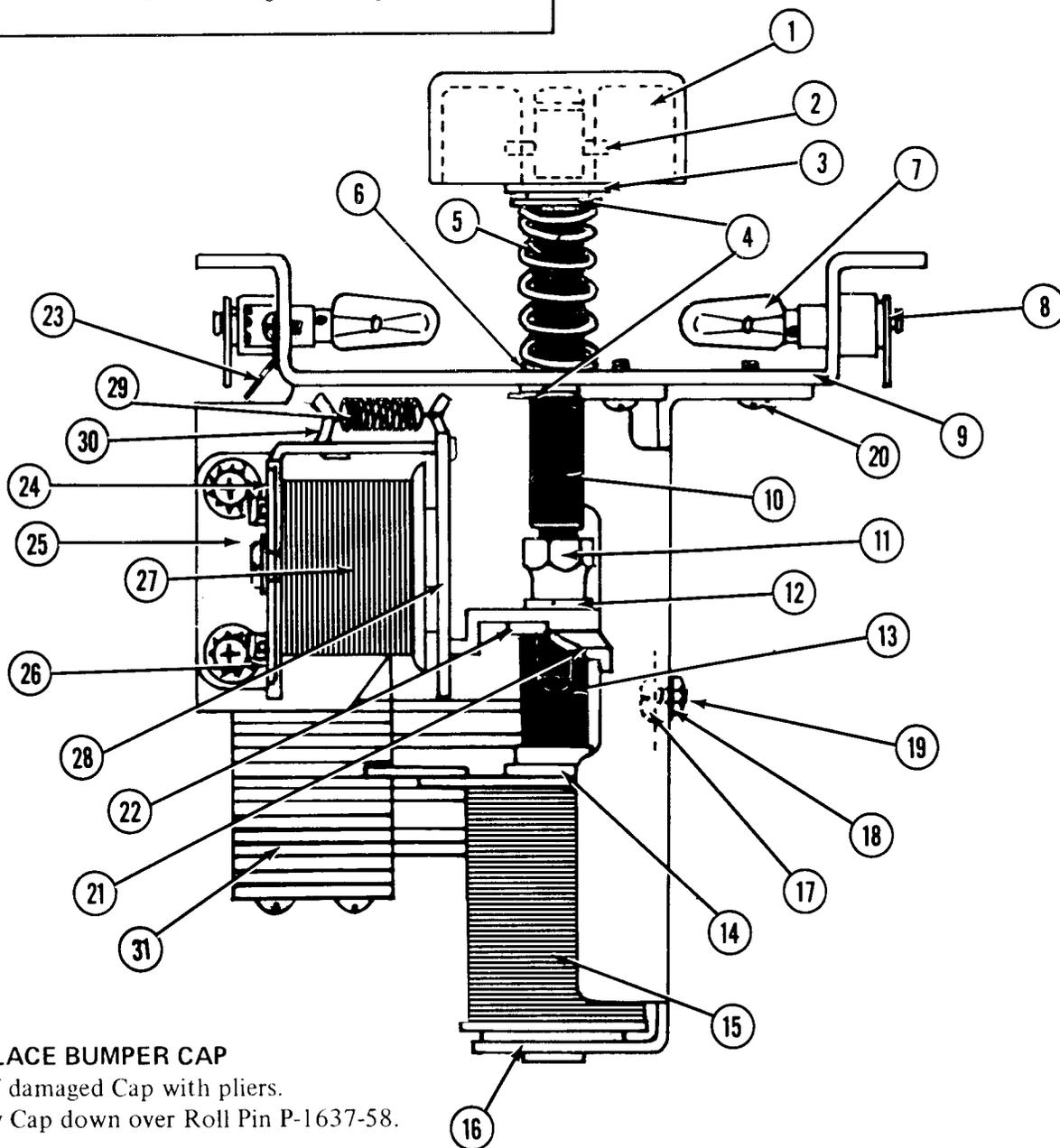
# POST ASSYS., DISAPPEARING (Play-More Post)

## IMPORTANT

Assy. illustrated below — with game to game variations described on page 186 — is used in LITTLE JOE and later games\* with Play-More Post.

For Play-More Post used in MARINER and earlier games\* see page 184

\*See chronological list of games, page 6.



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ← INDEX TO ILLUSTRATION, PAGE 185

Circled numbers below correspond to circled numbers in drawing on page 185. Numbers in parentheses indicate quantity used, if in excess of one.

## SEE VARIABLE PARTS AT RIGHT

- ① Bumper Cap (Plastic) . . . . . C-810
- ② Roll Pin . . . . . P-1637-58
- ③ Washer (Nylon) . . . . . P-801-468
- ④ Retaining Ring (2) . . . . . P-2891-6
- ⑤ Spring, Compression . . . . . SP-200-178
- ⑥ Nyliner . . . . . C-537-5
- ⑦ Lamp (No. 44) (2) . . . . . E-125-22
- ⑧ Socket, Lamp (2) . . . . . E-120-154
- ⑨ Mounting Bracket . . . . . P-7595
- ⑩ Shaft . . . . . S-2040
- ⑪ Elastic Stop Nut . . . . . M-319-1
- ⑫ Washer . . . . . PW-10-10
- ⑬ Plunger . . . . . S-496-194
- ⑭ Solenoid Bracket . . . . . P-108
- ⑮ Coil . . . . . AP-26-1200
- ⑯ Core Plug Assy. . . . . A-613-88
- ⑰ Screw (secured to 19) (2) . . . . . LS-632-5-112
- ⑱ Lockwasher, Split (2) . . . . . No. 6
- ⑲ Nut, Hexagon . . . . . N-632-2112
- ⑳ Lockscrew (7) . . . . . LS-632-4-512
- ㉑ Armature Latch . . . . . C-857
- ㉒ Washer . . . . . P-1972-290
- ㉓ Terminal . . . . . P-405-2
- ㉔ Latch Magnet Assy. . . . . AS-2517-8
- ㉕ Mounting Bracket . . . . . P-7782  
SECURED TO MOUNTING BRACKET P-7595  
BY 2 LOCKSCREW . . . . . LS-632-4-512
- ㉖ Frame . . . . . P-7473  
SECURED TO MOUNTING BRACKET P-7782  
BY 2 LOCKSCREW . . . . . LS-632-4-512  
AND 2 WASHER . . . . . P-801-561
- ㉗ Coil . . . . . G-31-1800  
SECURED TO FRAME P-7473  
BY SCREW, BRASS,  
HEXAGON HEAD . . . . . No. 8-32 x 3/8 in.  
AND 2 WASHER . . . . . P-801-149
- ㉘ Armature . . . . . P-7469-1
- ㉙ Spring, Extension . . . . . SP-199-28
- ㉚ Spring Retainer Bracket . . . . . P-7491

- DISAPPEARING POST ASSY:
- In LITTLE JOE . . . . . AS-2553-4
  - In SPACE TIME . . . . . AS-2553-5
  - In MONTE CARLO . . . . . AS-2553-5
  - In ODDS & EVENS . . . . . AS-2553-3
  - In TIME ZONE . . . . . AS-2553-5
  - In AMIGO . . . . . AS-2553-5

Above Assys. are identical, as listed at left, excepting items 31-33.

- ③① Switch & Bracket Assy.  
IN AS-2553-4  
(LITTLE JOE) . . . . . AS-982-912
- ③② Bracket . . . . . P-126-663  
L-shaped bracket not visible in illustration
- ③③ Switch (listed from top to bottom)  
1st . . . . . ASW-A2-52  
2nd . . . . . ASW-A2-53  
3rd . . . . . ASW-A1-87  
Switch Plate . . . . . P-137-5  
Switch Screw . . . . . MS-540-16-110

- ③① IN AS-2553-5  
(SPACE TIME) . . . . . AS-982-940  
Same as AS-982-912, above, excepting
- ③③ Switch (listed from top to bottom)  
1st . . . . . ASW-A2-53  
2nd . . . . . ASW-A2-52  
Switch Screw . . . . . MS-540-14-110

- ③① IN AS-2553-5  
(MONTE CARLO)  
Same as in SPACE TIME, above

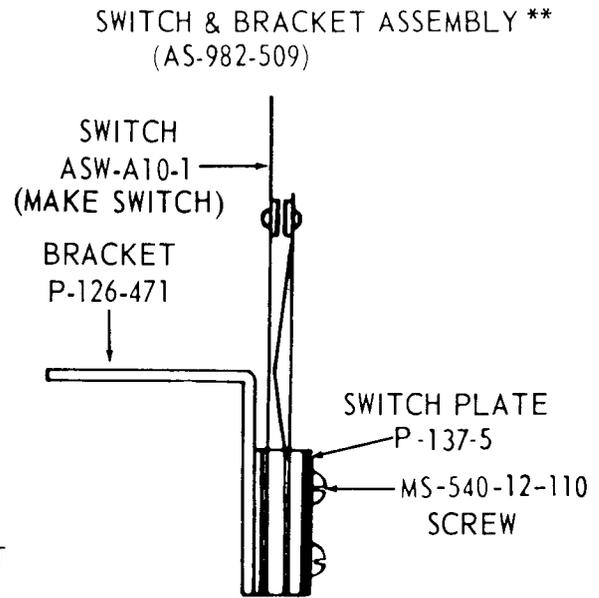
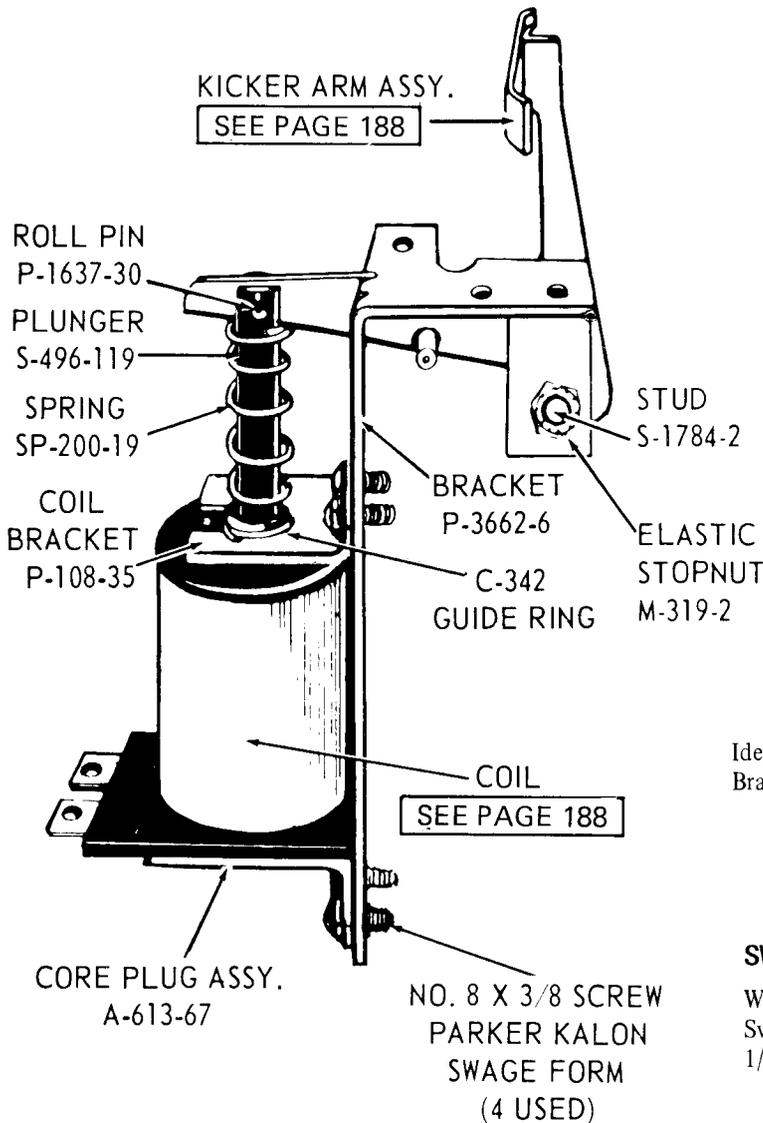
- ③① IN AS-2553-3  
(ODDS & EVENS) . . . . . AS-982-898  
Same as AS-982-912, above, excepting,
- ③③ Switch (listed from top to bottom)  
1st . . . . . ASW-A2-52  
2nd, 3rd . . . . . ASW-A2-53  
4th . . . . . ASW-A1-87  
Switch Screw . . . . . MS-540-20-110

- ③① IN AS-2553-5  
(TIME ZONE)  
Same as in SPACE TIME, above

- ③① IN AS-2553-5  
AMIGO  
Same as in SPACE TIME, above

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# REBOUND-SWITCH ASSYS.\*\* SLING-SHOT KICKER ASSYS. ALSO SEE PAGE 190



SWITCH & BRACKET ASSEMBLY \*\*  
(AS-982-561)

Identical to AS-982-509, above, with positions of Bracket and Switch Plate reversed.

ALSO SEE PAGE 188

### SWITCH ADJUSTMENT NOTE

When Sling-Shot Kicker is at rest, actuating blade of Switch should just barely touch Rubber Ring, with 1/16 in. air-gap between switch points.

\*\*Used with Rebounds and Slingshots.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# REBOUND-SWITCH ASSYS.\* \* SLING-SHOT KICKER ASSYS.

## SKYROCKET

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-2593-1  
As described, page 190

### Switch & Bracket Assy.

(7 used) . . . . . AS-982-509  
(1 used) . . . . . AS-982-561  
As shown, page 187  
(2 used) . . . . . AS-982-770  
Same as AS-982-509,  
above, excepting  
Switch . . . . . ASW-A110

## FOUR MILLION B.C.

### Rebound

See Switch & Bracket Assy., below  
Slingshot Kicker Coil Assy. . . AS-1566-24  
As illustrated, page 187, with

Coil . . . . . A-26-1200  
Kicker Arm Assy. . . . . A-1875-8  
Spring Washer . . . . . P-1158-6

### Switch & Bracket Assy.

(8 used) . . . . . AS-982-509  
As illustrated, page 260  
(3 used) . . . . . AS-982-561  
As described, page 260

## EXPRESSWAY

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-1566-22  
(1 USED) . . . . . AS-1566-22  
As illustrated, page 187, with

Coil . . . . . A-26-1200  
Kicker Arm Assy. . . . . A-1875-6  
(2 USED) . . . . . AS-2593-1  
See page 190

Switch & Bracket Assy. . . . . AS-982-509  
As illustrated, page 187

## SEA RAY

## MARINER

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-1566-22  
(1 USED) . . . . . AS-1566-22  
as detailed under EXPRESSWAY  
(2 USED) . . . . . AS-2593  
See page 190

### Switch & Bracket Assy.

(9 USED) . . . . . AS-982-509  
As illustrated, page 187  
(2 USED) . . . . . AS-982-561  
As described, page 187

## FIREBALL

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-1566-24  
Same as in FOUR MILLION B.C.

### Switch & Bracket Assy.

(8 used) . . . . . AS-982-509  
As illustrated, page 187  
(5 used) . . . . . AS-982-561  
As described, page 187

## EL TORO

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-2593  
As illustrated, page 190

### Switch & Bracket Assy.

(10 USED) . . . . . AS-982-509  
As illustrated, page 187

## LITTLE JOE

## SPACE TIME

Same as in EL TORO with  
Switch & Bracket Assy.

(12 used) . . . . . AS-982-509  
As illustrated, page 187

## MONTE CARLO

## ODDS & EVENS

Same as in EL TORO with  
Switch & Bracket Assy.

(8 used) . . . . . AS-982-509  
As illustrated, page 187  
(1 used) . . . . . AS-982-561  
As described, page 187

## TIME ZONE

Same as in LITTLE JOE

## NIP-IT

### Rebound

See Switch & Bracket Assy. below  
Slingshot Kicker Coil Assy. . . AS-1566-24

2 used,  
as Slingshot Kickers . . AS-1566-24  
See 4 MILLION B. C.  
1 used as Kickback Kicker. AS-1566-24  
See 4 MILLION B. C.

### Switch & Bracket Assy.

(6 Used) . . . . . AS-982-509  
As shown, page 187

## HI-LO ACE

## through \* CHAMP

### Rebound

See Switch & Bracket Assy., below  
Slingshot Kicker Coil Assy. . . AS-2593  
As illustrated, page 190

### Switch & Bracket Assy.

(8 used) . . . . . AS-982-509  
As illustrated, page 187

## TWIN WIN

Same as HI-LO ACE, excepting  
Switch & Bracket Assy.

(4 used) . . . . . AS-982-509  
(2 used) . . . . . AS-982-561  
As shown, page 187

## SKY KINGS

Same as HI-LO ACE, excepting  
Switch & Bracket Assy.

(10 used) . . . . . AS-982-509  
As shown, page 187

## AMIGO

Same as HI-LO ACE

## DELTA QUEEN

Same as HI-LO ACE, excepting  
Switch & Bracket Assy.

(9 used) . . . . . AS-982-509  
(2 used) . . . . . AS-982-561  
As shown, page 187

## ROGO

### Rebound

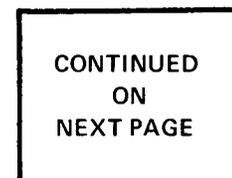
See Switch & Bracket Assy., below  
Slingshot Kicker Coil Assy. . . AS-2593

2 used,  
as Slingshot Kicker . . . AS-2593  
See page 190

1 used,  
as Kickback Kicker . . . AS-1566-22  
Detailed under EXPRESSWAY

### Switch & Bracket Assy.

(12 used) . . . . . AS-982-509  
As shown, page 187



\*\* Used with Rebounds and Slingshots.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# REBOUND-SWITCH ASSYS.\*\* SLING-SHOT KICKER ASSYS.

## BON VOYAGE

through\* **FLICKER**  
Same as in HI-LO ACE

## AIR ACES

Same as in SKY KINGS, plus  
**Switch & Bracket Assy.** (2) . AS-982-561  
As described, page 187

## KNOCKOUT

Same as HI-LO ACE, plus  
**Switch & Bracket Assy.** (2) . AS-982-561  
As described, page 187

## WIZARD

Same as HI-LO ACE, except  
**Switch & Bracket Assy.**  
(5 used) . . . . . AS-982-509  
As illustrated, page 187

## HI-DEAL

**Rebound**  
**Switch & Bracket Assy.** (4) . AS-982-509  
As illustrated, page 187

**Slingshot Kicker Coil Assy.** . . AS-2593-2  
See page 190

### D.C. COMPONENTS

Attached to underside of Playfield,  
directly adjacent to Flippers,  
purpose of D.C. components  
is to convert power to operate  
Slingshot Kickers and Thumper Bumpers  
from Alternating Current  
to Direct Current,  
greatly increasing force of action.

### D.C. Components are:

Bridge Rectifier  
(small black box) . . . . . E-602-2  
Capacitor  
(small yellow tube) . . . . . E-586-58  
Fuse . . . . . E-133-5  
Fuse Block . . . . . E-148  
**Switch Bracket Assy.**  
(2 per Kicker) . . . . . AS-982-1051  
Bracket . . . . . P-126-471  
Switch . . . . . ASW-A10-40  
Switch Plate . . . . . P-137-5  
Switch Screw (2) . . . . . MSSR-00540-1108

## BOW AND ARROW

Same as in HI-DEAL

## FLIP FLOP

Same as in HI-DEAL, except  
**Rebound**  
**Switch & Bracket Assy.**  
(2 used) . . . . . AS-982-509  
**Bridge Rectifier** . . . . . E-602-1

## HOKUS POKUS

Same as in HI-DEAL, except  
**Rebound**  
**Switch & Bracket Assy.** (5) . AS-982-509

## OLD CHICAGO

Same as in HI-DEAL, except  
**Rebound**  
**Switch & Bracket Assy.** (6) . AS-982-509  
**Slingshot Kicker** . . . . . NOT USED

## CAPT. FANTASTIC

Same as in HI-DEAL, except  
**Rebound**  
**Switch & Bracket Assy.** (3) . AS-982-509

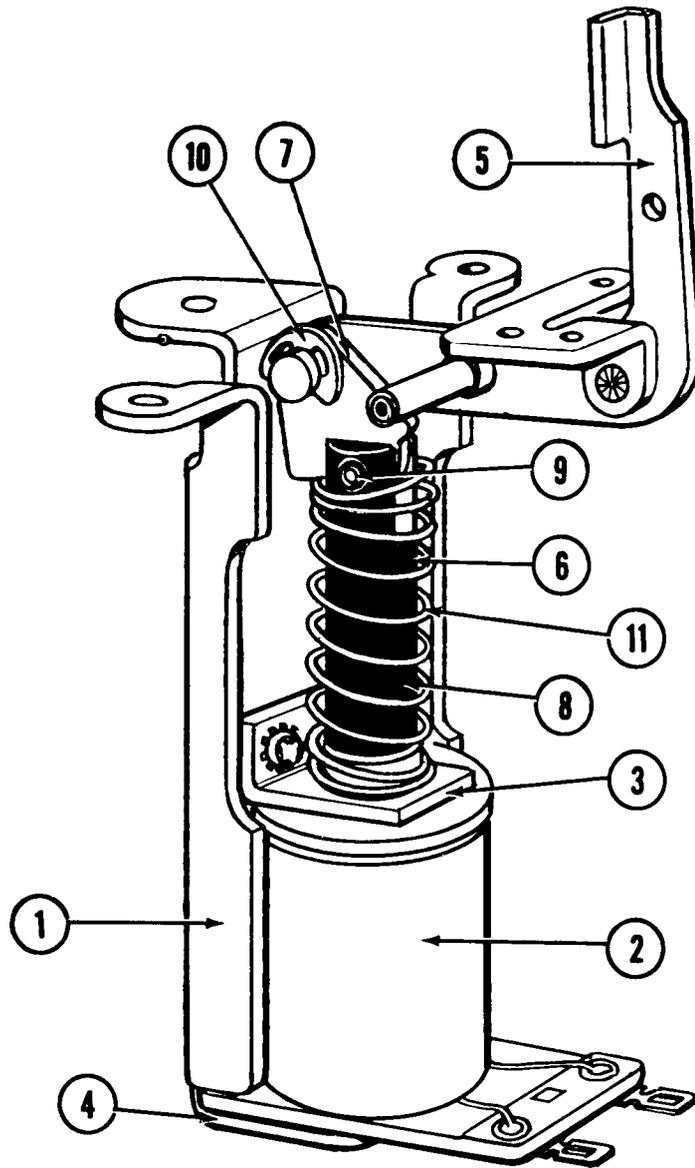
\*See chronological list of games, pages 1, 2.

\*\*Used with Rebounds and Slingshots.

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SLING-SHOT KICKER & COIL ASSYS.

ALSO SEE PAGES 187-189



## AS-2593

As illustrated at left, listed below

- ① Core Plug & Coil Assy ..... AS-2587
- ② Coil: part number marked on wrapper
- ③ Coil Bracket ..... P-108
- SECURED TO MOUNTING BRACKET
- BY MEANS OF
- Lockwasher, Split (2) ..... No. 6
- Nut (2) ..... N-632-2112
- Screw (Phillips) (2) ..... MS-632-5-112
- ④ Core Plug Assy ..... A-613-88
- (INCLUDES MOUNTING BRACKET)
- ⑤ Kicker Arm Assy ..... A-3459
- ⑥ Plunger & Link Assy ..... AS-2586
- ⑦ Link ..... P-7373
- ⑧ Plunger ..... S-496-190
- ⑨ Roll Pin ..... P-1637-59
- ⑩ Retaining Ring ..... P-6316-5
- ⑪ Spring, Compression ..... SP-200-180

## AS-2593-1

Same as AS-2593 above, excepting

- Core Plug & Coil Assy..... AS-2588
- Bracket, Coil ..... P-108-53
- SECURED TO MOUNTING BRACKET
- BY MEANS OF
- Lockscrew (2) ..... LS-832-6-510
- Lockwasher, Split (2) ..... No. 8
- Nut (2) ..... N-832-2111
- Bracket, Mounting ..... P-3658-5
- Coil: part number marked on wrapper
- Core Plug Assy..... A-613-67
- SECURED TO MOUNTING BRACKET
- BY MEANS OF
- Screw, Phillips,  
Parker Kalon,  
Swage Form (2) ..... No. 8-32 X 3/8 in.

## AS-2593-2

Same as AS-2593 above, excepting

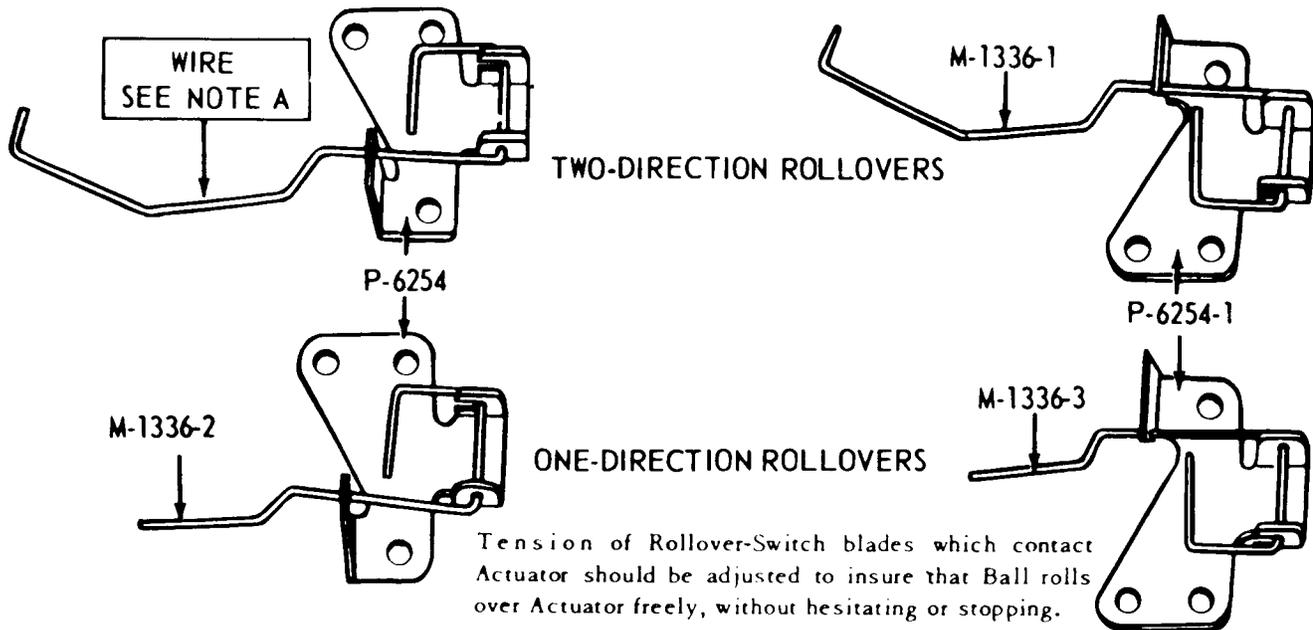
- Core Plug & Coil Assy. ....AS-2587-3
- Same as AS-2587, above,  
under AS-2593, except
- Core Plug Assy. ....AS-613-101

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# ROLLOVERS

Right

Left



## WIRES

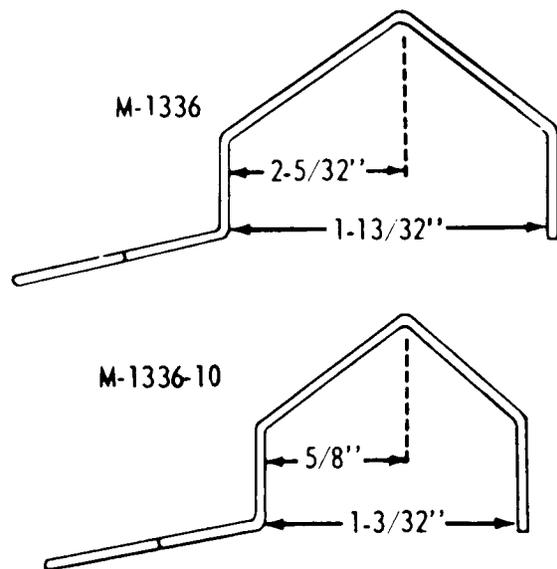
Double-check Playfield Charts, commencing page 124, for exact part numbers of Rollover Wires.

## ROLLOVER BUTTONS

See Playfield Charts, Commencing page 124.

### NOTE A

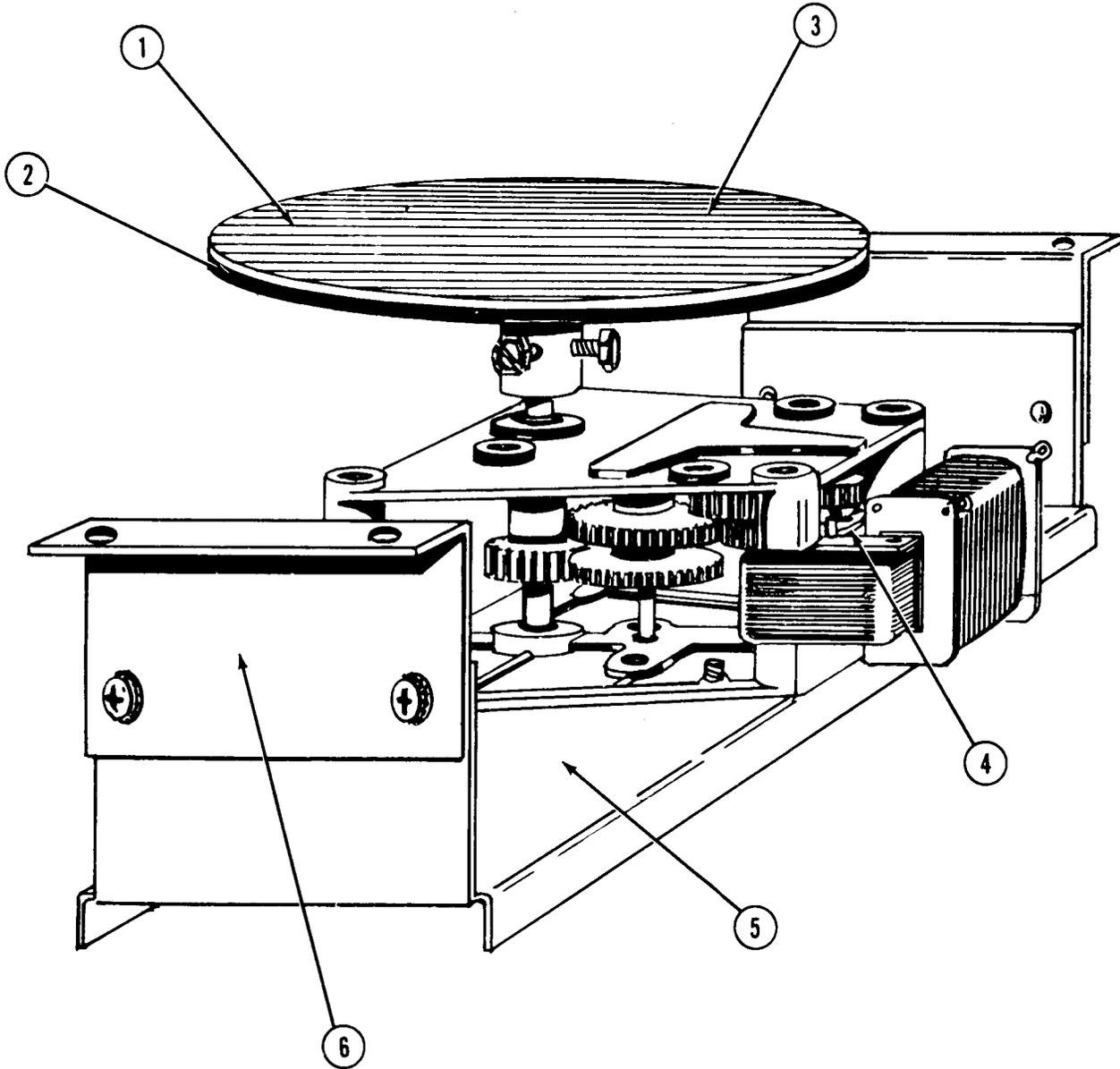
Depending on application, M-1336 or M-1336-10 may be used. Wires may be recognized by dimensional differences indicated in reduced size sketch below. M-1336 and M-1336-10 cannot be used interchangeably.



**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# SPINNER ASSY. AS-2699 (FIREBALL)



WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# INDEX TO ILLUSTRATION, PAGE 193

- ① Mat & Disc Assy ..... AS-2698  
SECURED TO Motor Shaft  
by 2 Set Screws, Slotted,  
Hexagon Head ..... M-1590
- ② Hub & Disc Assy ..... A-3568
- ③ Rubber Mat ..... R-226-16  
SECURED TO Disc  
with rubber cement
- ④ Motor ..... E-119-425  
SECURED TO Motor Mounting Bracket  
by 4 Lockscrew ..... LS-832-6-511  
and 4 Plain Washer ..... PW-8-10
- ⑤ Motor Mounting Bracket ..... P-7807
- ⑥ Mounting Bracket (2 used) ..... P-7801  
SECURED TO Motor Mounting Bracket  
by 2 Lockscrew ..... LS-832-4-511  
and 2 Plain Washer ..... PW-8-10

## SPINNER ASSY. AS-2699-1 (TWIN WIN)

Same as AS-2699 , listed above, excepting

Mat & Disc Assy..... AS-2698-1

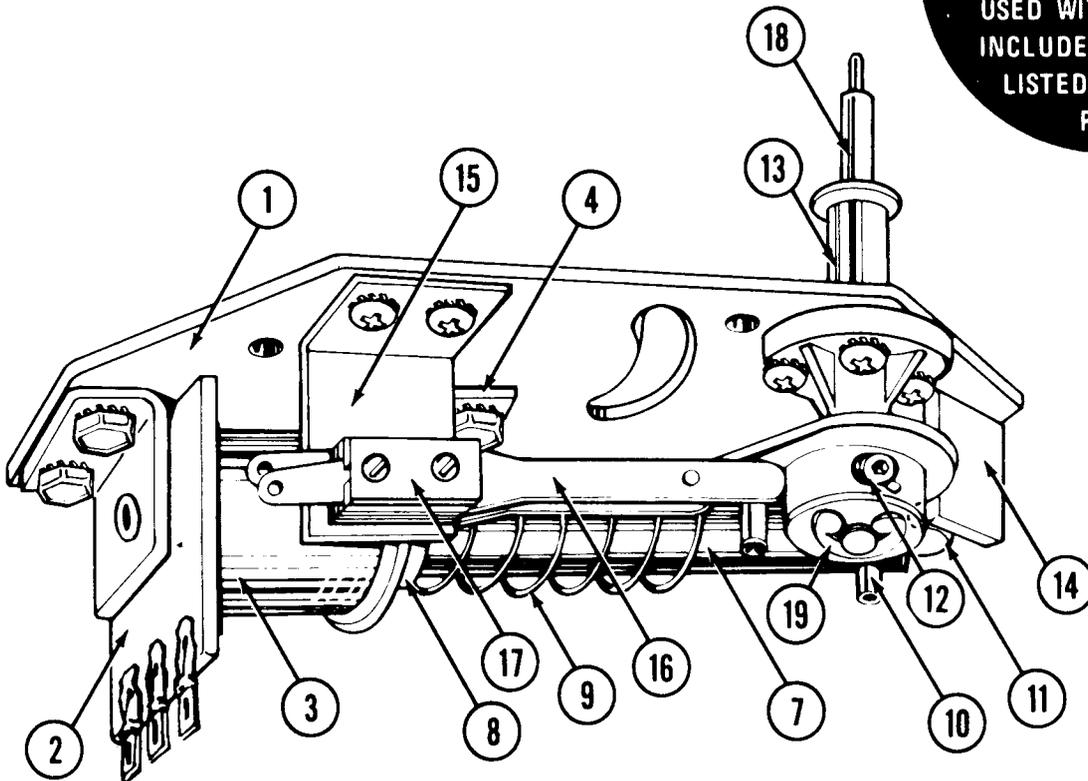
Same as AS-2698, above, excepting

Rubber Mat ..... R-226-14

Plain Washers are ..... PW-008-12

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SWIVEL-TYPE FREE-BALL GATES



- |   |                            |       |                    |
|---|----------------------------|-------|--------------------|
| ① | Base Plate                 | ..... | P-3691-18          |
| ② | Core Plug Assy             | ..... | A-613-67           |
|   | SECURED BY                 |       |                    |
|   | Lockscrew (2 used)         | ..... | LS-832-5-810       |
| ③ | Coil                       | ..... | AF-27-1000/32-1300 |
| ④ | Coil Bracket               | ..... | P-108-53           |
|   | SECURED BY                 |       |                    |
|   | Lockscrew (2 used)         | ..... | LS-832-5-810       |
| ⑦ | Plunger                    | ..... | S-496-167          |
| ⑧ | Guide Ring (not visible)   | ..... | C-342              |
| ⑨ | Spring, Compression        | ..... | SP-240-2           |
| ⑩ | Roll Pin                   | ..... | P-1637-1           |
| ⑪ | Lever Arm Assy.            | ..... | A-1889-8           |
| ⑫ | Set Screw (2 used)         | ..... | M-1369             |
| ⑬ | Bearing, Nylon             | ..... | C-649              |
|   | SECURED BY                 |       |                    |
|   | Screw (3 used)             | ..... | LS-632-5-510       |
| ⑭ | Stop Bracket               | ..... | P-6256             |
|   | SECURED BY                 |       |                    |
|   | Lockscrew (2 used)         | ..... | LS-832-5-810       |
| ⑮ | Switch Bracket             | ..... | P-126-559          |
|   | SECURED BY                 |       |                    |
|   | Screw (2 used)             | ..... | LS-632-3-511       |
| ⑯ | Switch                     | ..... | SEE PAGE 196       |
|   | ORDER SWITCH SCREW BY NAME |       |                    |
|   | With reference to          |       |                    |
|   | (a) Free Ball Gate,        |       |                    |
|   | (b) Name of game,          |       |                    |
|   | (c) Switch                 |       |                    |
| ⑰ | Switch Plate (Spring)      | ..... | P-137-5            |
| ⑱ | Shaft                      | ..... | S-907-5            |
| ⑲ | Retaining Ring (2 used)    | ..... | P-6316-5           |

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# SWIVEL-TYPE FREE-BALL GATES

## SKYROCKET

**Free Ball Gate Assy.** . . . . . AS-1587-75

As illustrated, page 195, with

Switch,

Break-Make . . . . . ASW-A21

Make Before Break . . . ASW-A12-1

## FOUR MILLION B.C.

**Ball Separator Assys.**

ABOVE PLAYFIELD . . . . A-3111-1

(Not part of Assy. listed below)

BELOW PLAYFIELD . . . . AS-1587-76

As illustrated, page 195, with

Switch . . . . . ASW-A22

## SEA RAY

**Free Ball Gate Assy** . . . . . AS-1587-77

As illustrated, page 195, with

**Set Screw** . . . . . M-1590

Switch,

Make . . . . . ASW-A1-77

Make Before Break . . . ASW-A12-2

## MARINER

## FIREBALL

**Free Ball Gate Assy.** . . . . . AS-1587-75

Same as in SKYROCKET

## LITTLE JOE

**Free Ball Gate Assy.** . . . . . AS-1587-86

As illustrated, page 195, with

Switch,

Break . . . . . ASW-A20-17

Make Before Break . . . . ASW-A12-1

## NIP-IT

## AMIGO

**Free Ball Gate Assv** . . . . . AS-1587-74

As illustrated, page 195, with

Switch,

Break . . . . . ASW-A20-8

Make . . . . . ASW-A1-49

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

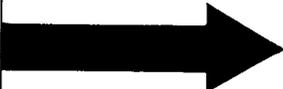
# 3-STEPS FREE-BALL ESCAPE ASSY.

## AS-2300-2 in FOUR MILLION B.C.

Similar to Assys. on opposite page

with following parts:

Arm & Stud Assy. ....	A-2870-2
Ball Escapement Plate Assy.,	
Single Prong .....	A-2871-5
Double Prong (2 used) .....	A-2871-3
Escapement Bracket Assy. ....	A-2877-2
Guide Ring .....	C-342
Link .....	P-6442-80
Nyliner (6 used) .....	C-537-3
Plunger .....	S-496-168
Retaining Ring (8 used) .....	P-6316-4
Roll Pin .....	P-1637-10
Spring, Extension .....	SP-100-233
Washer (2 used) .....	P-801-521
At connection of	
Arm & Stud Assy. with Link	

**COIL & BRACKET ASSY.**  
**AS-2299**  
USED WITH ABOVE ASSY. 

# 4-STEPS FREE-BALL ESCAPE ASSYS.

AS-2300 in MAD WORLD

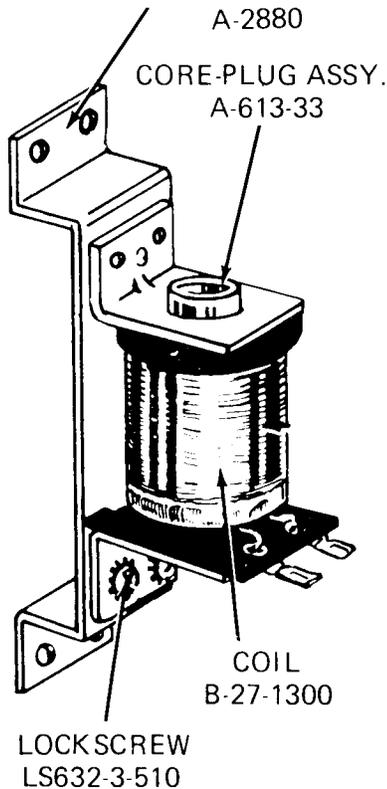
AS-2300-1 in CAPERSVILLE

NAME OF COMPONENT	IN AS-2300	IN AS-2300-1
Arm & Stud Assy.	A-2870	A-2870-1
Ball Escapement Plate Assy. (Bottom)	A-2871-2	A-2871-5
Ball Escapement Plate Assy. (Center)	A-2871	A-2871-3
Ball Escapement Plate Assy. (Top)	A-2871-1	Not Used
Escapement Bracket Assy.	A-2877	A-2877-1
Link	P-1973-144	P-6442-13

Availability of all parts for AS 2300 and AS 2300-1 is not guaranteed.

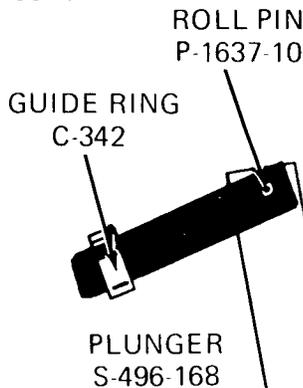
ARM & STUD ASSY.  
SEE TABLE ABOVE

COIL BRACKET & MOUNTING ASSY.



COIL & BRACKET ASSY. AS-2299

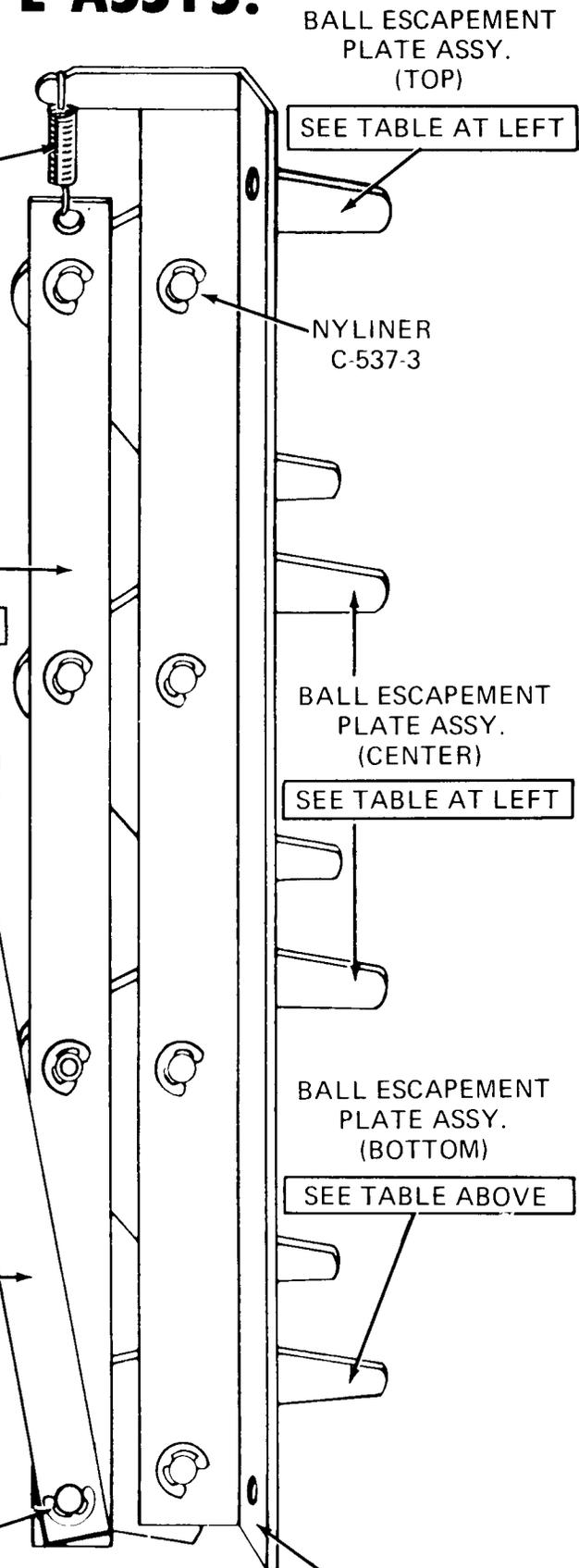
USED WITH BOTH ABOVE ASSYS.



LINK  
SEE TABLE ABOVE

RETAINING RING P-6316-4

ESCAPEMENT BRACKET ASSY.  
SEE TABLE ABOVE



WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

# PLAYFIELD MISCELLANEOUS PARTS

## Also see Playfield Charts, page 124

- Ball Control Plate ..... P-363-4
- Ball Runway ..... P-575
- Bracket
- Bushing
- Channel

See Miscellaneous Parts, below

Clip

Order by reference to

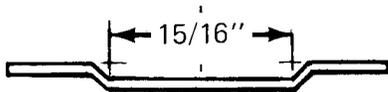
- (a) S-271-SERIES,
- (b) Inside diameter

Fasteners:

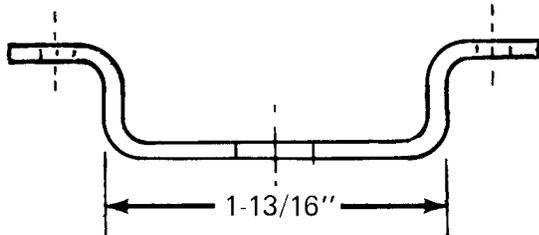
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) part fastener secures.

Guide

See Miscellaneous Parts, below



HAT BRACKET P-6264-112



LOCK MOUNTING BRACKET P-6264-1

### Miscellaneous Parts

Following types of parts may be ordered by name with reference to

- (a) Name of game,
- (b) Function of Part

- Bracket
- Bushing
- Channel
- Guide
- Pin
- Plate
- Spacer

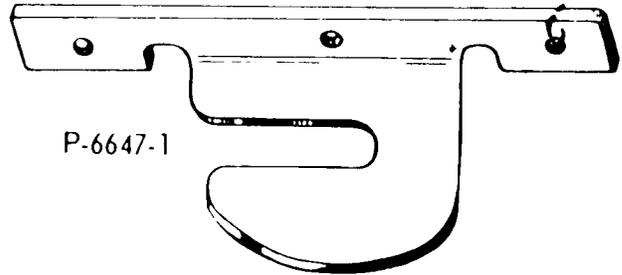
Panel Guide,

Left ..... P-6647

Right ..... P-6647-1

Illustrated below in reduced size

Posts: illustrated on next page



Panel Lock (16½ in. long) ..... P-6784-5

Pin

Plate

See Miscellaneous Parts, Column 1

Plate & Stud Assy.

TIME ZONE, earlier games\* ..... A-2901-5

NIP-IT, later games\* ..... A-2901-9

Similar to reference sketch below



Playfield Panel Support

See Support, Playfield Panel, page 200

CONTINUED  
ON  
NEXT PAGE

\*See List of Games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

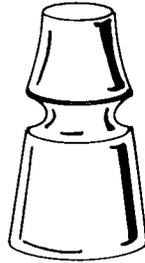
# PLAYFIELD MISCELLANEOUS PARTS

Also see Playfield Charts, page 124



C-119-21  
RED

C-119-25  
WHITE



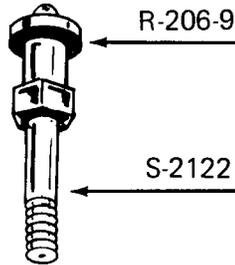
C-119-31  
RED

C-119-35  
WHITE



SPRING

- Eyelet (brass) . . . . . M-1337-13
- Nut . . . . . N-632-1111
- Screw . . . . . MS-632-30-513
- Spring . . . . . SP-112-3
- Washer . . . . . P-801-86



MINI-POST ASSY.  
AS-2836

Shields, Light, Red

1/2 in. diameter

15/16 in. high . . . . . C-615-1

1-1/16 in. high . . . . . C-858-1

1-1/2 in. high . . . . . C-858

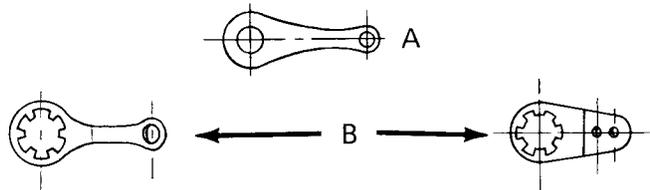
Soldering Terminal

A Below . . . . . P-405-2

B Below . . . . . P-405-31



RAIL POST CAP  
C-908



Spacer

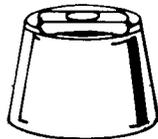
See Miscellaneous Parts, page 199

Support, Playfield Panel

2 USED, FRONT END OF PANEL

WIZARD, earlier games\* . . . . . P-1455

HI-DEAL, later games\* . . . . . P-1455-1



RAIL POST  
C-907

ABOVE 2 PARTS  
HELD TOGETHER  
AND SECURED TO PANEL  
BY SCREW  
MSSZ-00832-1128

\*See List of Games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# **FUSES, LAMPS, LAMP SOCKETS: AND ELECTRONIC PARTS**



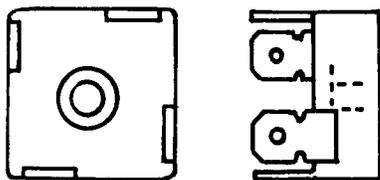
# FUSES, LAMPS, LAMP SOCKETS AND ELECTRONIC PARTS

Bridge Rectifier ..... E-602-2

200 volts, 30 amperes

Used with Capacitor,  
under side of Playfield Panel  
to convert current  
to Slingshot Kickers  
and Thumper Bumpers  
from A.C. to D.C.

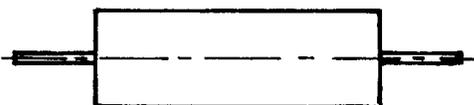
See sketch below



Capacitor ..... E-586-58

1 MFD, 200 volts

See note under Bridge Rectifier  
and sketch below



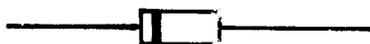
Diode ..... E-587-16

1 ampere at 1000 reverse voltage

Shown straight in sketch below,  
normally attached in loop  
to terminal of Coil,

Coil & Bracket Assy.,  
Thumper Bumper

CAUTION: if replaced,  
striped end of Diode  
must be in same position  
relative to Coil  
as original Diode.



Fuse

5 amp. .... E-133-5

8 amp. .... E-133-8

10 amp. .... E-133-10

15 amp. .... E-133-15

SLO-BLOW

1-6/10 amp. .... E-133-41

1-1/4 amp. .... E-133-42

Fuse Block

Illustrated, page 205

Lamp

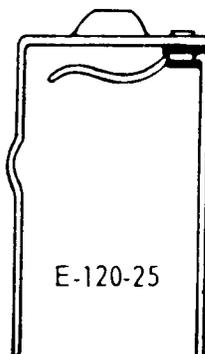
Flasher ..... E-125-44

No. 44 ..... E-125-22

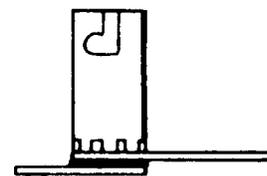
No. 55 ..... E-125-5

Lamp Socket

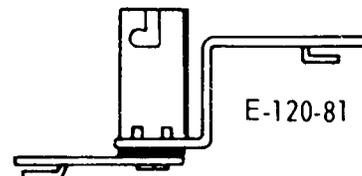
Illustrated below



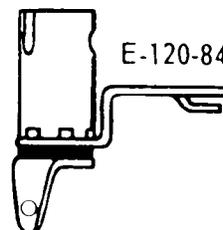
E-120-25



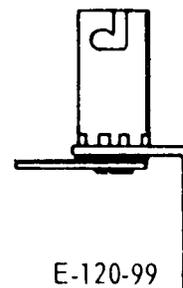
E-120-33



E-120-81



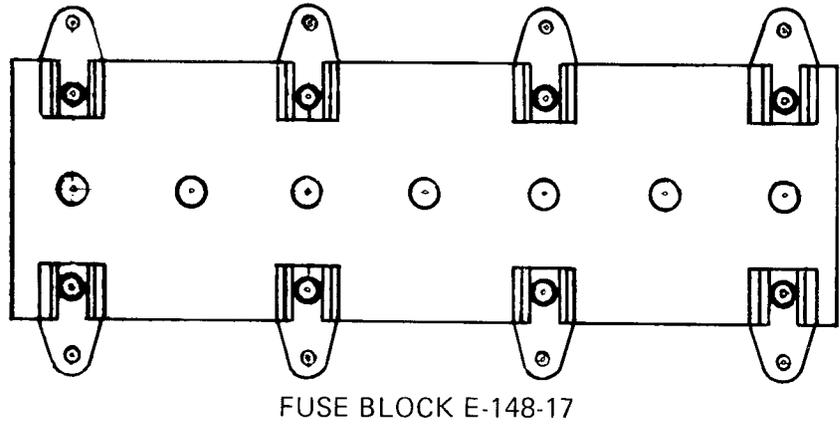
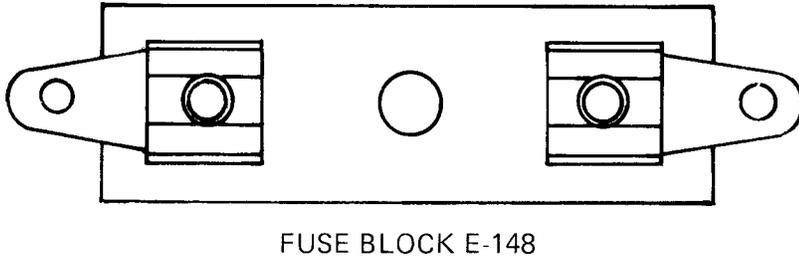
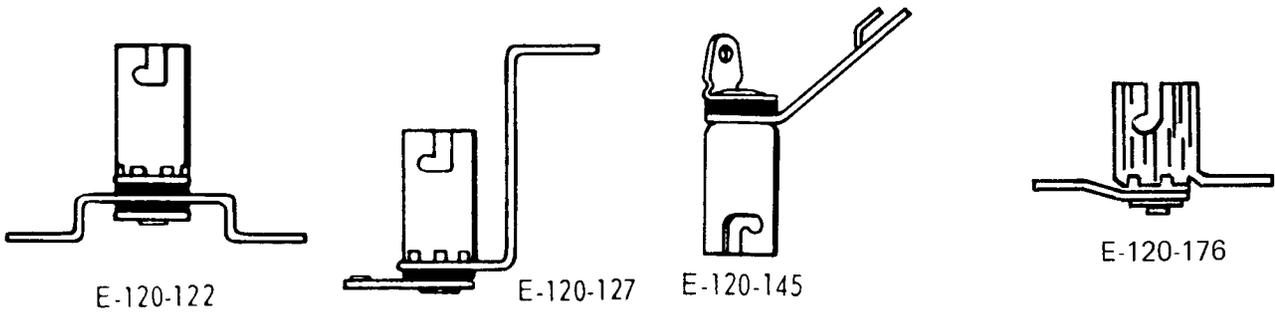
E-120-84



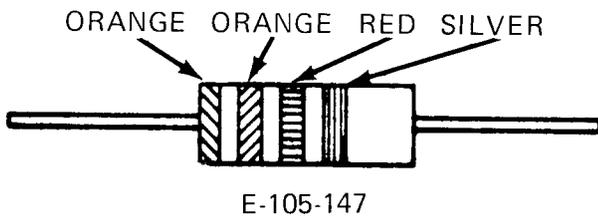
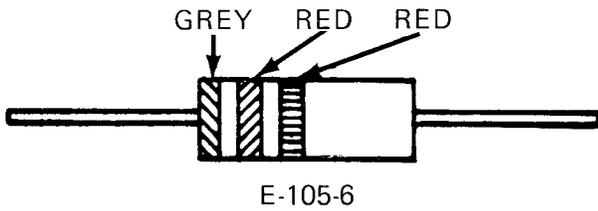
E-120-99

CONTINUED  
ON  
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME



RESISTOR: SEE OVERSIZE VIEWS BELOW



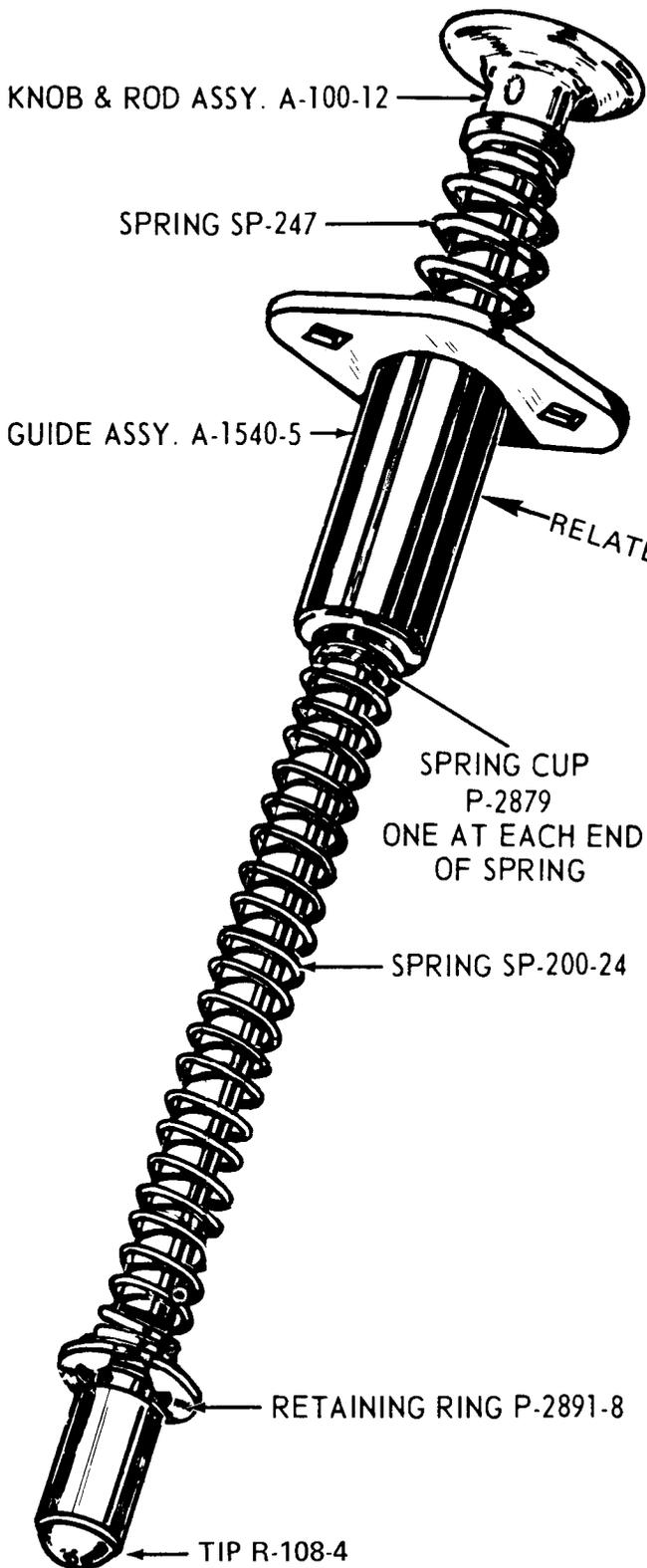
**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FRONT CABINET



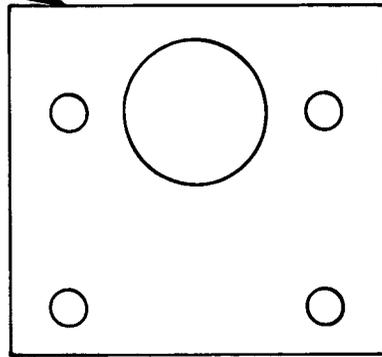
# FRONT CABINET

## Front Cabinet, Assembled



- Ball Shooter Assys.
- SKYROCKET through\*
    - CHAMP ..... AS-2378-1
    - As illustrated at left
  - TWIN WIN
  - Automatic Ball Shooter, page 164
  - SKY KINGS
  - Same as in SKYROCKET, above
  - AMIGO through\*
    - KNOCKOUT ..... AS-2378-3
    - Same as AS-2378-1, above, except
      - Guide Assy. .... A-1540-4
      - Nyliner (added) ..... C-537-22
  - WIZARD, later games\* ..... AS-2378-4
  - Same as AS-2378-3, above, except
    - Knob & Rod Assy. .... A-100-7
    - Washer (added) ..... P-801-507

RELATED PARTS →



BALL-SHOOTER PLATE P-1973-291  
(Inside of Cabinet)

Bracket  
Bushing  
Above types of parts may be ordered by name with reference to  
(A) Name of game,  
(B) Specific function of part  
Clip  
Order by reference to C-271-series, Inside diameter  
Clip, Nylon Tension ..... C-760

\*See List of Games, pages 1, 2

CONTINUED  
ON  
NEXT PAGE

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FRONT CABINET

## Front Cabinet, Assembled

### FASTENERS

Order fasteners (nuts, screws, washers, etc.) by name or description with reference to (a) part which fastener secures, (b) name of game

Front Door Trim

#### SKYROCKET through\* MARINER

Left ..... P-5940-20  
 Right ..... P-5940-19  
 Top or Bottom ..... P-5940-21

#### FIREBALL, later games\*

Left ..... P-5940-29  
 Right ..... P-5940-31  
 Top or Bottom ..... P-5940-30

### GLASS FRAME, PARTS RELATED TO

Front Rail Lock Assy.

#### SKYROCKET through\* TWIN WIN. . . . AS-2313-5

Bushing,  
 Longer (3 used) ..... S-231-672  
 Shorter (1 used) ..... S-231-695  
 Elastic Stop Nut (4 used) ..... M-319-3  
 Front Rail Bracket ..... P-6364-2  
 Front Rail Latch ..... P-6365-1  
 Spring Washer ..... P-1158-5  
 Washer,  
 Thicker (1/16 in.) (4 used) ..... P-801-107  
 Thinner (1/32 in.) (4 used) ..... P-801-514

#### SKY KINGS, later games\* . . . . . AS-2313-7

Same as AS-2313-5, above, except

Front Rail Bracket ..... P-6364-6  
 Front Rail Latch ..... P-6365-3

Glass Frame Assy.

#### SKYROCKET through\* TIME ZONE . . AS-2442

Channel  
 19-3/4 in. long (2 used) ..... M-1450  
 40-1/4 in. long (2 used) ..... M-1450-1  
 Glass ..... P-337  
 Glass Frame Bracket ..... P-7071  
 Moulding Assys.  
 Front  
 Inside ..... A-2737-8  
 Outside (Top) ..... A-3080  
 Side,  
 Left ..... A-3152-1  
 Right ..... A-3152  
 Plug Bumper (2 used) ..... R-231-12

### GLASS FRAME, PARTS RELATED TO CONTINUED FROM COLUMN 1

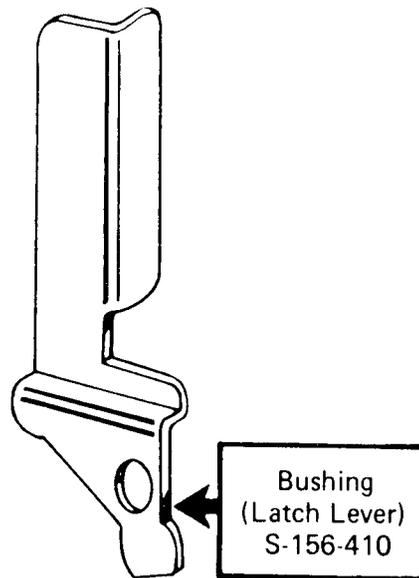
NIP-IT ..... AS-2442-2  
 Same as AS-2442, column one, except  
 Moulding Assy.,  
 Side, Right ..... A-3152-2

#### HI-LO ACE through\* TWIN WIN

Same as in SKYROCKET, column one

#### SKY KINGS, later games\* (NO ASSY. NO.)

Channel (2 used) ..... M-1624-7  
 Glass ..... G-409  
 Mouldings  
 Front Moulding ..... AS-2791  
 Front Moulding Assy. .... A-3080-14  
 Side  
 Left (through WIZARD\*) . . . P-921-73  
 Right (through WIZARD\*) . . P-921-72  
 Left (HI-DEAL, later games\*) P-921-75  
 Right (HI-DEAL, later games\*) P-921-74  
 Glass Trim, Back ..... P-565  
 Insulator ..... M-1759  
 Lock Channel, Back ..... P-566  
 Latch Lever ..... P-6363  
 See illustration below



P-6363  
 ILLUSTRATED  
 IN REDUCED SIZE

\*See List of Games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FRONT CABINET

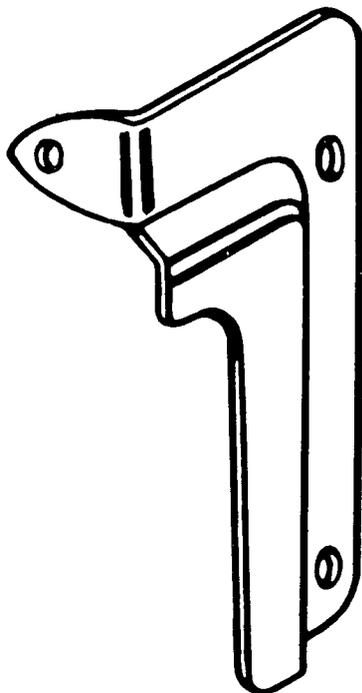
## Front Cabinet, Assembled

### GLASS FRAME, PARTS RELATED TO (CONTINUED FROM PAGE 209)

Pivot Pin (Glass Frame Support)  
**SKYROCKET through\* TWIN WIN** . . . S-468-21  
**SKY KINGS, later games\*** . . . . . NOT USED

Ratchet Stud  
**SKYROCKET through\* TWIN WIN**  
 Used with Shields . . . . . M-330-8  
**SKY KINGS, later games\***  
 Used with Side Mouldings . . . . . M-330-8

Shield, Glass Frame  
**SKYROCKET through\* TWIN WIN**  
 Left . . . . . P-7061  
 Right (illustrated below) . . . . . P-7061-1  
**SKY KINGS, later games\*** . . . . . NOT USED



P-7061-1

Stop Bracket, Glass Frame  
**SKYROCKET through\* TWIN WIN** . . . P-665-249  
**SKY KINGS, later games\*** . . . . . NOT USED

Support, Glass Frame  
**SKYROCKET through\* TWIN WIN**  
 Left . . . . . P-7062  
 Right . . . . . P-7062-1  
**SKY KINGS, later games\*** . . . . . NOT USED

### MISCELLANEOUS PARTS

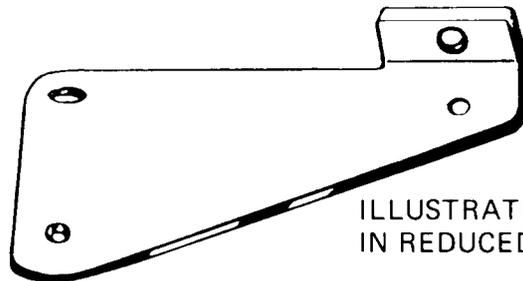
Corner Bracket  
**SKYROCKET through\* TWIN WIN** . . . P-6362-3  
**SKY KINGS, later games\*** . . . . . NOT USED

Leg Bolt Armor . . . . . P-3914

Lock Cam Bracket  
**SKYROCKET through\* EL TORO** . . . . P-4423-2  
**LITTLE JOE, later games\*** . . . . . P-4000-2

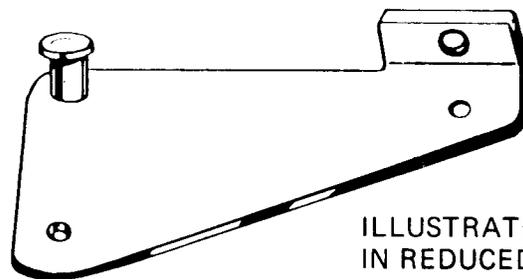
Lock Plate (Coin Box) . . . . . P-3045-2

Panel Guide Lock  
 Illustrated directly below  
**SKYROCKET through\* TWIN WIN** . . . P-6646-2  
**SKY KINGS, later games\*** . . . . . NOT USED



ILLUSTRATED  
IN REDUCED SIZE

Panel Guide Lock Assy.  
**SKYROCKET through\* TWIN WIN**  
 Left . . . . . A-3017-1  
 Right (illustrated below) . . . . . A-3017  
**SKY KINGS, later games\*** . . . . . NOT USED



ILLUSTRATED  
IN REDUCED SIZE

CONTINUED  
ON  
NEXT PAGE

\*See List of Games, pages 1, 2 .

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FRONT CABINET

## Front Cabinet, Assembled Front Door

MISCELLANEOUS PARTS  
(CONTINUED FROM PAGE 210)

- Pin
- Plate
- Rubber Parts
- Stud
- Above types of parts  
may be ordered by description  
with reference to
  - (A) Name of game,
  - (B) Exact function of part

Trim, Front Door  
See Front Door Trim,  
page 209

## Front Cabinet, Unassembled

- Ball
  - Play, 1-1/16 in. . . . . M-168-26
  - Tilt
  - SKYROCKET through\* SEA RAY**
    - 1-1/16 in. . . . . M-168-26
  - MARINER, later games\***
    - 15/16 in. . . . . M-168-50
- Coin Box Components
  - SKYROCKET through\* MARINER**
    - Coin Box . . . . . A-2790-30
    - Coin Box Cover . . . . . P-3089-38
    - Coin Box Divider . . . . . P-6074-82
  - FIREBALL, later games\***
    - Coin Box . . . . . A-2790-51
    - Coin Box Cover . . . . . P-3089-46
    - Coin Tray
      - 2-11/16 in. wide . . . . . M-1579
      - 3-7/8 in. wide . . . . . M-1579-1
      - 6-7/8 in. wide . . . . . M-1579-2
- Leg
  - SKYROCKET through\* TWIN WIN** . . . . . P-4052-5
  - SKY KINGS, later games\*** . . . . . P-4052-8
  - Leg Adjuster . . . . . M-163-4
  - Leg Bolt . . . . . M-106-1

ALSO SEE PAGES 11-14

ALSO SEE

- ANTI-TILT COMPONENTS  
PAGES 116-119
- CIRCUIT CONTROL COMPONENTS,  
PAGES 22-109
- COIN HANDLING COMPONENTS,  
PAGES 4-21
- FUSES, ETC., PAGES 202-206

Clip  
Order by reference to  
(A) C-271-series,  
(B) Inside diameter

Door

### SKYROCKET through\* MARINER

- Door (word only)
  - Single Chute . . . . . CA-567-166
  - Double Chute . . . . . CA-567-167
  - Triple Chute . . . . . CA-567-168
- Door Cover
  - Single Chute . . . . . P-5946-20
  - Double Chute . . . . . P-5946-21
  - Triple Chute . . . . . P-5946-17

### FIREBALL, later games\*

- Door Assy. . . . . A-3444
- Door Back Plate . . . . . P-7592

### FASTENERS

Order nuts, screws, washers  
by name or description  
with reference to  
(A) Name of game,  
(B) Part fastener secures

Hinge Assy. (Door)

- SKYROCKET through\* MARINER** . . . . . A-274-79
- MARINER, later games\*** . . . . . A-274-112

Lock and Keys . . . . . M-281-22

Lock Cam . . . . . P-4005-1

CONTINUED  
ON  
NEXT PAGE

\*See List of Games, pages 1, 2

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

# FRONT CABINET

## Front Door

(CONTINUED FROM PAGE 211)

Lock Mounting

**SKYROCKET through\* MARINER**

Lock Plate ..... P-3473-2

**FIREBALL, later games\***

Lock Spacer ..... P-6264-86

Plate

Spacer

**Above types of parts**

**may be ordered by name**

**with reference to**

(A) Name of game,

(B) Exact function of part

## Mounting Board

ALSO SEE

ANTI-TILT COMPONENTS,  
PAGES 116-119

CIRCUIT CONTROL COMPONENTS,  
PAGES 22-109

COIN HANDLING COMPONENTS  
PAGES 4-21

COUNTING COMPONENTS  
PAGES 110-115

FUSES, ETC., PAGES 202-206

SOUND COMPONENTS,  
PAGES 120-123

Bracket

Clamp

**See MISCELLANEOUS PARTS below**

Clip

Order by reference to

(A) C-271-series,

(B) Inside diameter

Connector

**See MISCELLANEOUS PARTS below**

### MISCELLANEOUS PARTS

Following types of parts

may be ordered by reference to

(A) Name of game

(B) Exact function of part

Bracket

Clamp

Connector

Spacer

Terminal

Spacer

Terminal

**See MISCELLANEOUS PARTS above**

Toggle Switch ..... E-108-28

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**



# BACK CABINET

THIS IS A COPY OF THE ORIGINAL DOCUMENT



# BACK CABINET

## ALSO SEE,

CIRCUIT CONTROL COMPONENTS,  
PAGES 22 - 109  
COUNTING COMPONENTS,  
PAGES 110 - 115  
SOUND COMPONENTS,  
PAGES 120 - 123

## BACK DOOR

### Multiple Player Games

SKYROCKET . . . . . P-6230-8  
FOUR MILLION B.C.  
through\* TWIN WIN . . . . P-6230-9  
AMIGO, later games\* . . . . P-6230-10  
**Single Player Games**  
EXPRESSWAY  
through\* HI-LO ACE . . . . P-6230-8  
SKY KINGS, later games\* . P-6230-11

## BACK DOOR RETAINING BRACKET

### Multiple Player Games

SKYROCKET . . . . . P-6629-27  
FOUR MILLION B.C.  
through\* TWIN WIN . . . . P-6629-26  
AMIGO, later games\* . . . . P-6229-98

### Single Player Games

EXPRESSWAY  
through\* HI-LO ACE . . . . P-6629-27  
SKY KINGS, later games\* . P-6629-101

## BACKGLASS

Order by name of game

## BACKGLASS CHANNEL

### Multiple and Single Player Games

SIDES  
SPACE TIME  
through\* TWIN WIN . . . . M-1624-3  
SKY KINGS, later games\* M-1624-5

### Multiple Player Games

TOP  
SPACE TIME  
through\* TWIN WIN . . . . M-1624-2  
AMIGO, later games\* . . . . M-1624-4

### Single Player Games

TOP  
ODDS & EVENS,  
HI-LO ACE . . . . . M-1624-1  
SKY KINGS, later games\* M-1624-6

## BACKGLASS RETAINER

### Multiple Player Games

GALAHAD  
through\* FIRECRACKER  
BOTTOM . . . . . P-6242-3  
SIDES . . . . . P-6242-19  
TOP . . . . . P-6242-4

### SKYROCKET

BOTTOM . . . . . P-6242-6  
SIDES . . . . . P-6242-19  
TOP . . . . . P-6242-7

### FOUR MILLION B.C.

through\* LITTLE JOE  
BOTTOM . . . . . P-6242-3  
SIDES . . . . . P-6242-19  
TOP . . . . . P-6242-4

### SPACE TIME

through\* TWIN WIN  
BOTTOM\*\* . . . . . P-6242-3  
AMIGO, later games\*  
BOTTOM\*\* . . . . . P-6242-71

### Single Player Games

EXPRESSWAY  
through\* EL TORO  
BOTTOM . . . . . P-6242-6  
SIDES . . . . . P-6242-19  
TOP . . . . . P-6242-7  
ODDS & EVENS,  
HI-LO ACE  
BOTTOM\*\* . . . . . P-6242-6  
SKY KINGS, later games\*  
BOTTOM\*\* . . . . . P-6242-72

\*\*See BACKGLASS CHANNEL,  
column 1, this page.

## BACKGLASS RETAINER LATCH

SKYROCKET  
through\* TWIN WIN . . . . P-6243-7  
SKY KINGS, later games\* . . P-6243-9

## BACK-UP BRACKET

SKYROCKET  
through\* SEA RAY . . . . . P-6816-1  
MARINER . . . . . P-6816-2  
FIREBALL . . . . . P-6816-1  
EL TORO, later games\* . . . . P-6816-2

## FASTENERS

Order nuts, screws, washer  
by name or description  
with reference to  
(A) Name of game,  
(B) Part fastener secures

INSERT RETAINING BRACKET. . P-6629-25  
INSERT SUPPORT BRACKET. . . . P-6665-283  
LOCK (KEYS) . . . . . M-281-22  
LOCK CAM. . . . . P-758-24  
LOCK PLATE . . . . . P-2892  
RUBBER STRIP . . . . . R-221-23

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

