

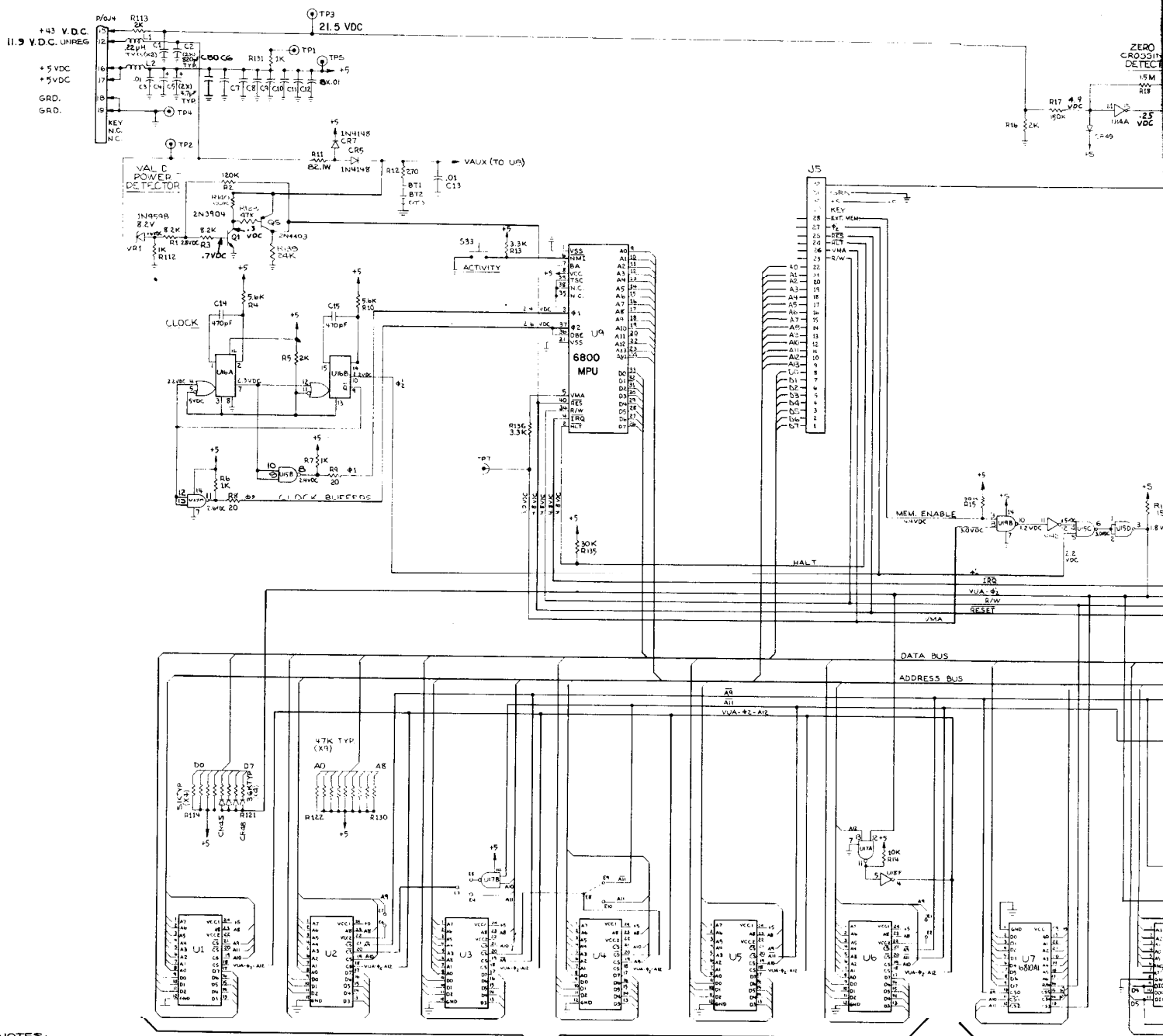
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- NOTES:
- 1* INDICATES "AID" TEST POINT.
 - 2 REMOVE A3J4 BEFORE USING AS AID TEST POINT
 - 3 PREFIX ALL REFERENCE DESIGNATIONS WITH "A4".

READ ONLY MEMORY

READ / WRITE MEMORY



REMOVE ALL BURRS

**TOLERANCES ON
DIMENSIONS UNLESS
OTHERWISE SPECIFIED**

FRACTIONS $\pm 1/64$

DECIMALS $\pm .005$

ANGLES $\pm 1^\circ$

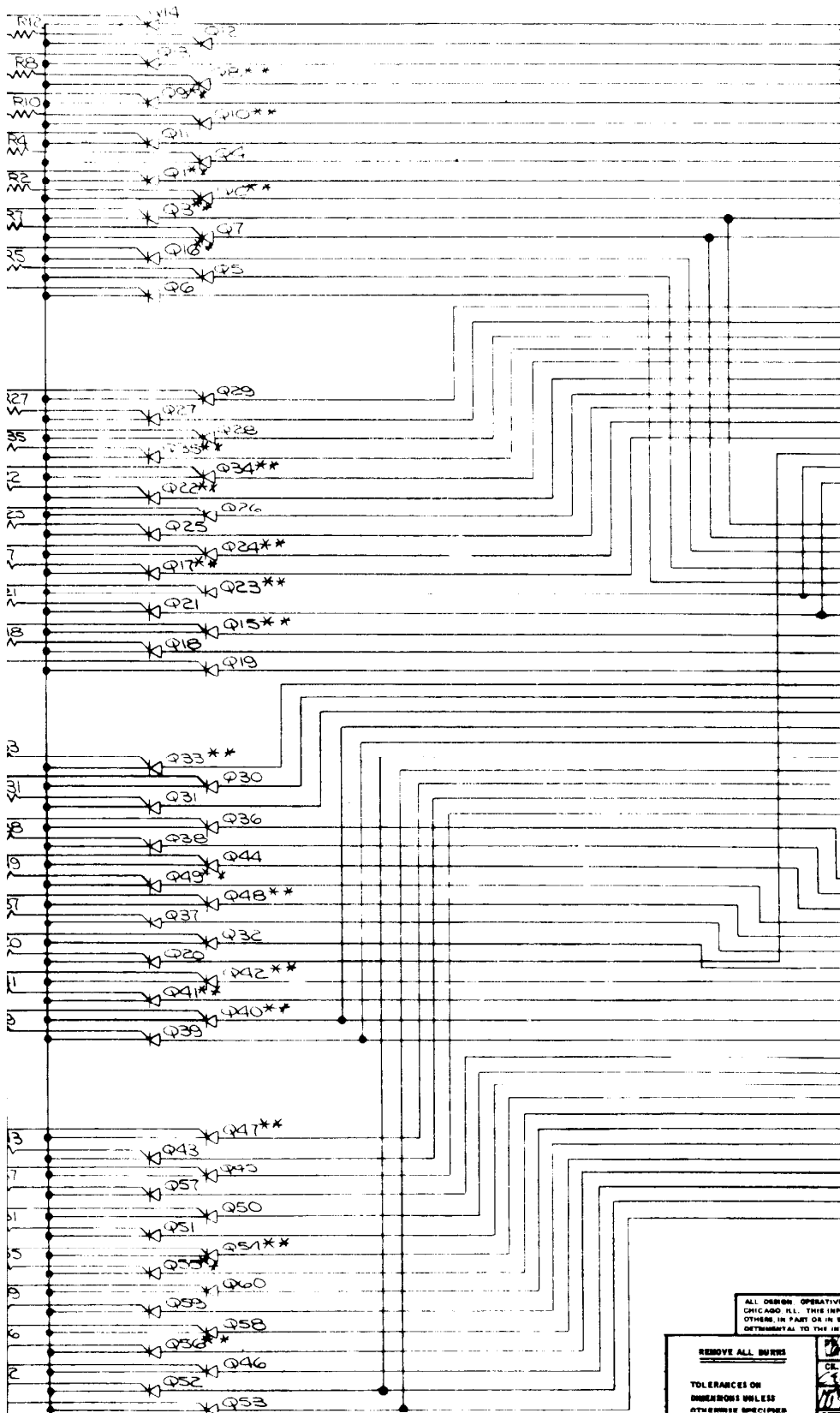
DO NOT SCALE DRAWING

ORDER NO. 1094-E ORDERED BY DATE 2-27 CR. BY DATE 2-27 APD BY DATE PRINT CONTROL 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 2930 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050 3051 3052 3053 3054 3055 3056 3057 3058 3059 3060 3061 3062 3063 3064 3065 3066 3067 3068 3069 3070 3071 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084 3085 3086 3087 3088 3089 3090 3091 3092 3093 3094 3095 3096 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120 3121 3122 3123 3124 3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138 3139 3140 3141 3142 3143 3144 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157 3158 3159 3160 3161 3162 3163 3164 3165 3166 3167 3168 3169 3170 3171 3172 3173 3174 3175 3176 3177 3178 3179 3180 3181 3182 3183 3184 3185 3186 3187 3188 3189 3190 3191 3192 3193 3194 3195 3196 3197 3198 3199 3200 3201 3202 3203 3204 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216 3217 3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238 3239 3240 3241 3242 3243 3244 3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348 3349 3350 3351 3352 3353 3354 3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465 3466 3467 3468 3469 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3491 3492 3493 3494 3495 3496 3497 3498 3499 3500 3501 3502 3503 3504 3505 3506 3507 3508 3509 3510 3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528 3529 3530 3531 3532 3533 3534 3535 3536 3537 3538 3539 3540 3541 3542 3543 3544 3545 3546 3547 3548 3549 3550 3551 3552 3553 3554 3555 3556 3557 3558 3559 3560 3561 3562 3563 3564 3565 3566 3567 3568 3569 3570 3571 3572 3573 3574 3575 3576 3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587 3588 3589 3590 3591 3592 3593 3594 3595 3596 3597 3598 3599 3600 3601 3602 3603 3604 3605													
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1. *SCRs ARE MCR 10G-1 ALL OTHERS ARE 2N 5060 OR EQUIVALENTS.
2. U5, U6, U7 & U8 ARE CD 4050AE OR EQUIVALENT.
3. ALL RESISTORS ARE $\frac{1}{4}W$, $\pm 5\%$.
4. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".
5. VOLTAGES SHOWN ARE FOR A GAME UP CONDITION.
6. "U5", "U6", "U7" AND "U8" PINS 1 ARE CONNECTED TO +5V PINS 8 TO GROUND.
7. * INDICATES 'AID' TEST POINT

FER
PLIFIERS SCR'S



J1
22 N/U
21 N/U
20 KEY
18 1 BALL
13 5 BALL
17 9 BALL
23 13 BALL
14 ALLEY 1
15 ALLEY 5
16 Δ 1
28 Δ 5
24 Δ 9
25 Δ 13
26 NOTE 1
27 SUPER BONUS

2 BALL
6 BALL
10 BALL
14 BALL
ALLEY 2
ALLEY 6
Δ 2
Δ 6
Δ 10
Δ 14
Δ 7
N/U
5X

J2
21 S.P.S.A.
13 BALL IN PLAY
22 1 PLAYER
16 10 PLAYER UP
14 MATCH
10 N/U
12 HIGH SCORE
23 2 PLAYER
20 2ND PLAYER UP
15 GAME OVER
11 3 PLAYER
6 3RD PLAYER UP
2 N/U
4 N/U
9 N/U
3 N/U
10 TILT
7 4 PLAYER
1 4TH PLAYER UP
17 N/U
18 KEY
19 N/U

J3
26 3 BALL
25 7 BALL
19 11 BALL
17 15 BALL
16 ALLEY 3
23 OUTLANE SPECIAL
27 Δ 3
21 Δ 11
20 Δ 14
22 SPINNER & RETURN ARROW
24 5X
1 4 BALL
12 8 BALL
13 12 BALL
11 LEFT ARROW
9 ALLEY 4
3 CREDIT IND.
4 Δ 4
7 Δ 8
10 Δ 12
100 RIGHT ARROW
13 S.P.S.A.
14 2X
5 N/U
6 N/U
8 N/U
28 N/U

TO PLAYFIELD

TO BACK BOX

TO PLAYFIELD

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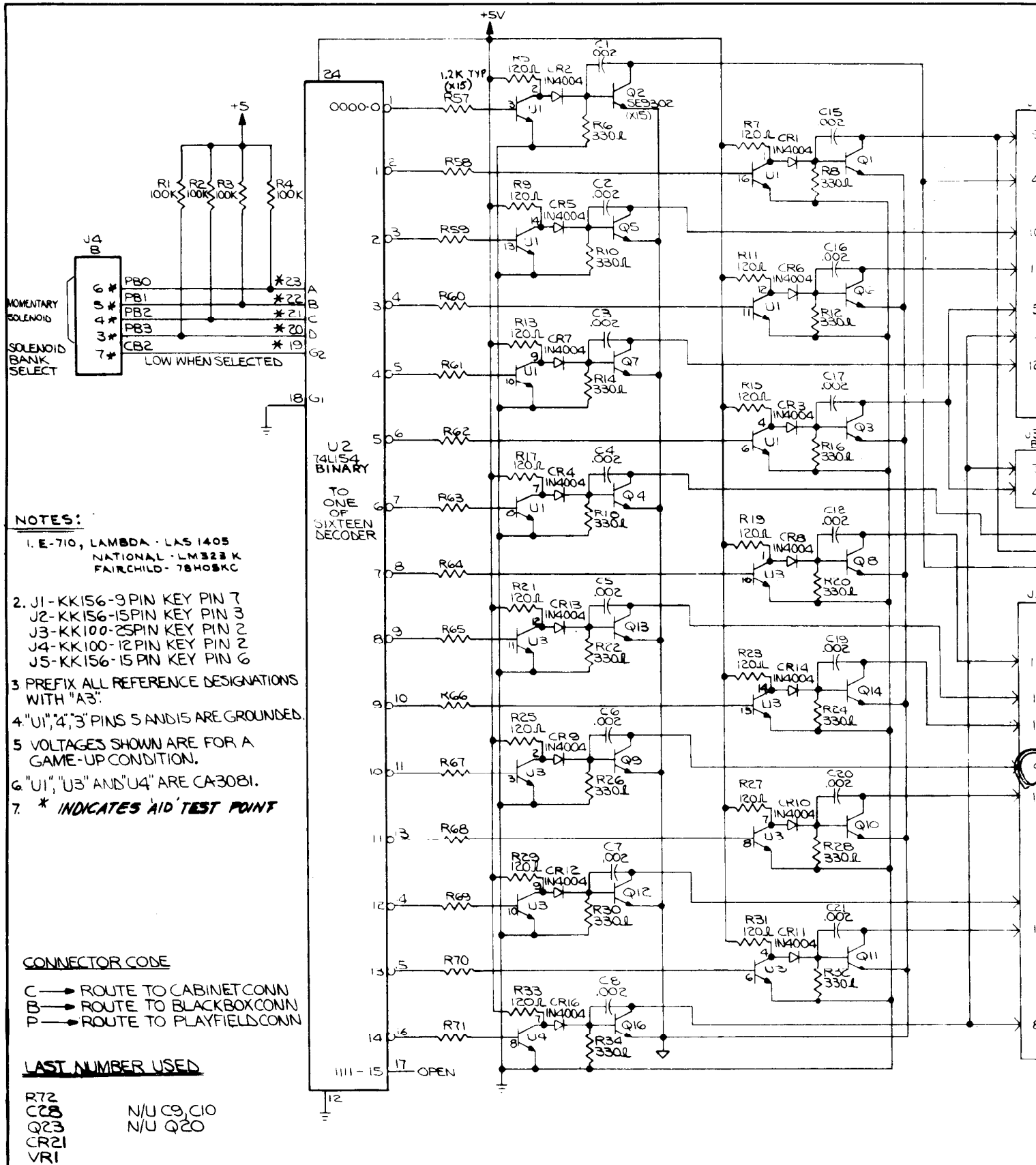
REMOVE ALL BURRS

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
FRACTIONS:
DECIMALS:
ANGLES:

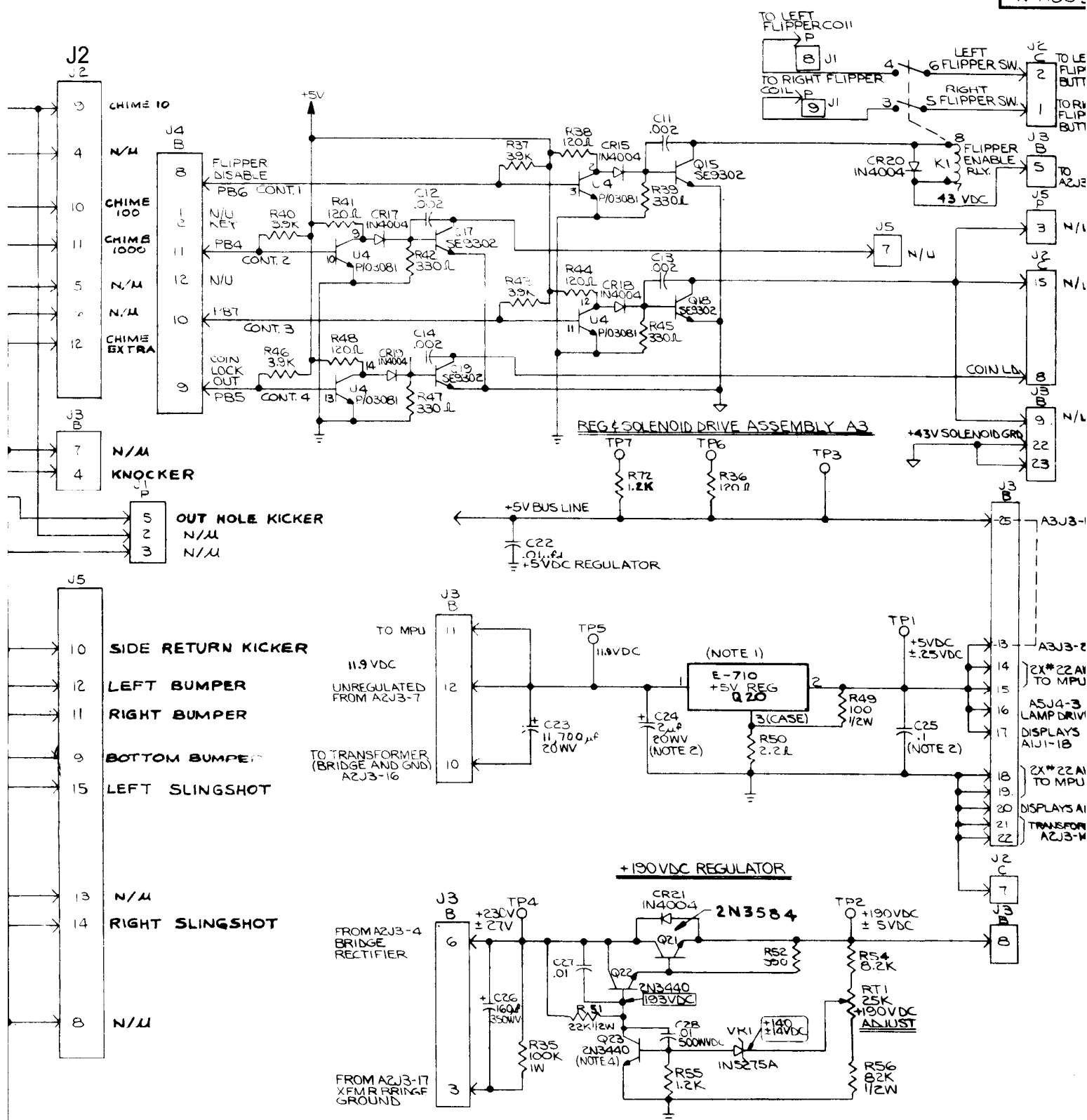
DO NOT SCALE DRAWING

DATE 2-7-72		BALLY MANUFACTURING CORP.	
DR. BY 2-7-72	SALE 2-7-72	2640 BELMONT AVENUE CHICAGO, ILLINOIS 60618-1118-E	
CHKD BY 11-2-72	DATE 11-2-72	TOTAL SCALE	
FINISH: 2X	DATE 11-2-72	AS 8-BALL LAMP DRIVER SCHEMATIC	
HARDENING: 2X	DATE 11-2-72	PART NO. W-1182-3c	

NO.	LET.	CHANGE	DATE	BY	CK.

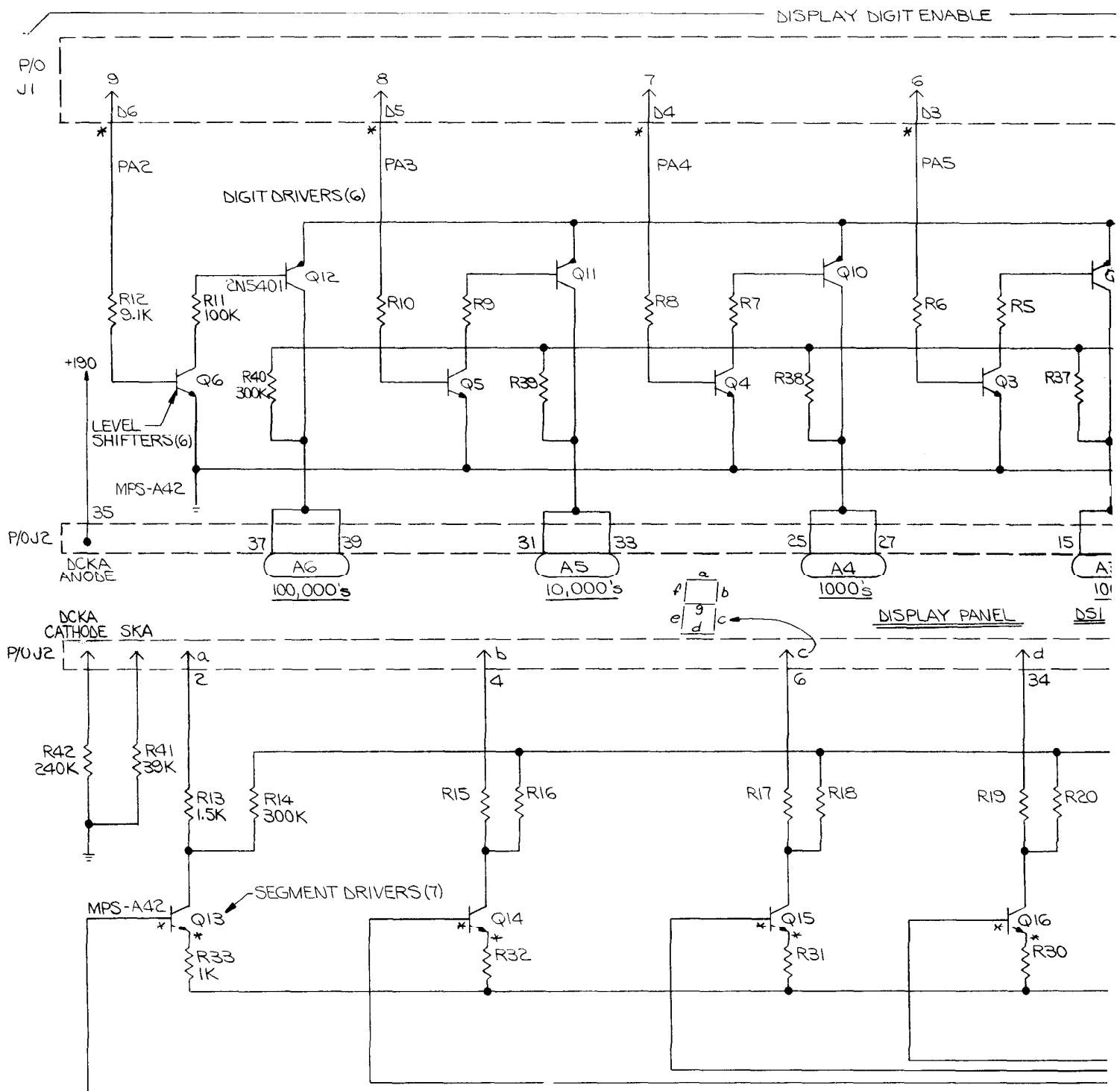


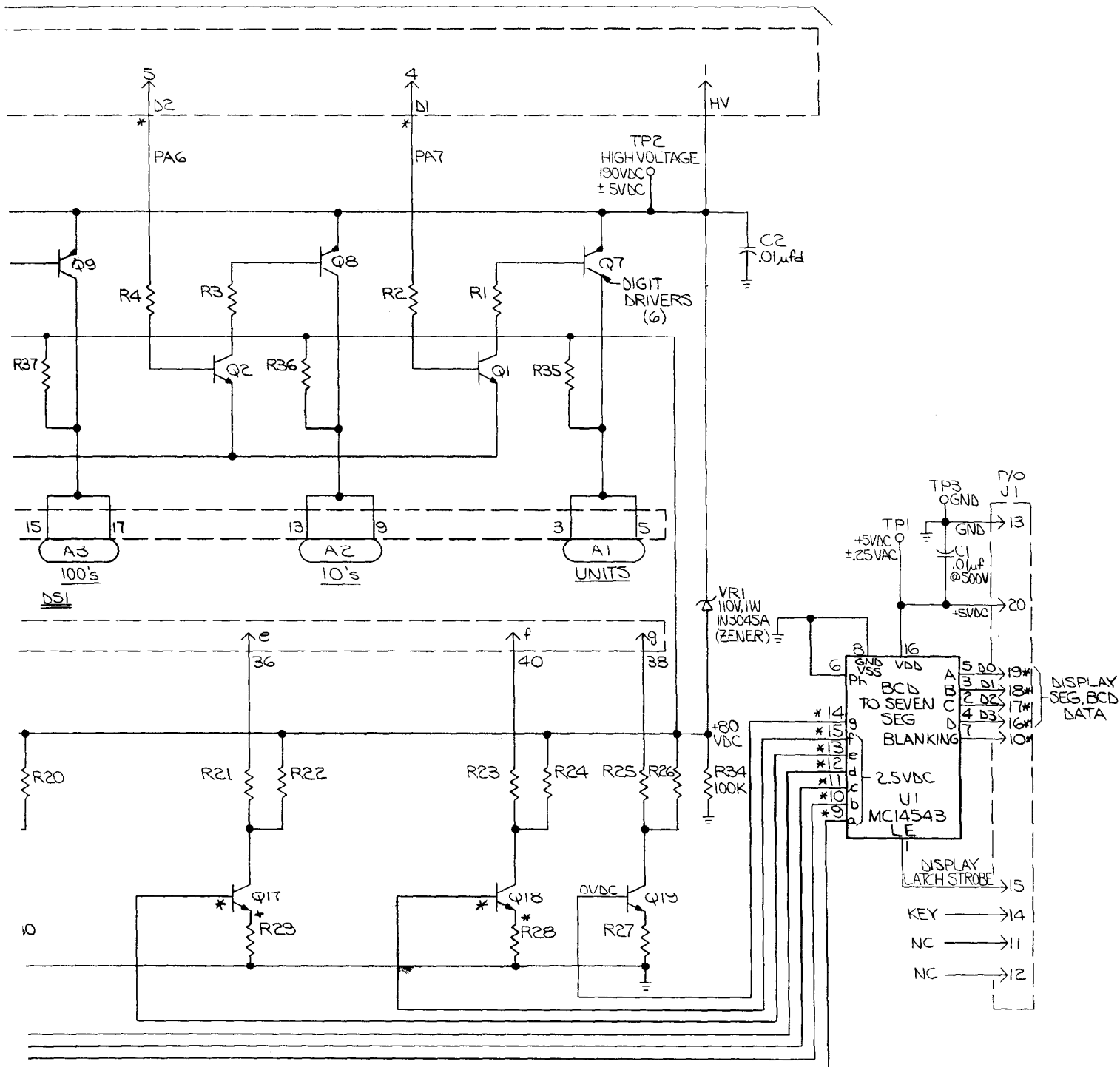
- NOTES:**
1. E-710, LAMBDA · LAS 1405
 NATIONAL · LM323 K
 FAIRCHILD · 78H08KC
 2. J1-KK156-9 PIN KEY PIN 7
 J2-KK156-15 PIN KEY PIN 3
 J3-KK100-25 PIN KEY PIN 2
 J4-KK100-12 PIN KEY PIN 2
 J5-KK156-15 PIN KEY PIN 6
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3".
 4. "U1", "U4", "U3" PINS 5 AND 15 ARE GROUND.
 5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION.
 6. "U1", "U3" AND "U4" ARE CA3081.
 7. * INDICATES AID TEST POINT



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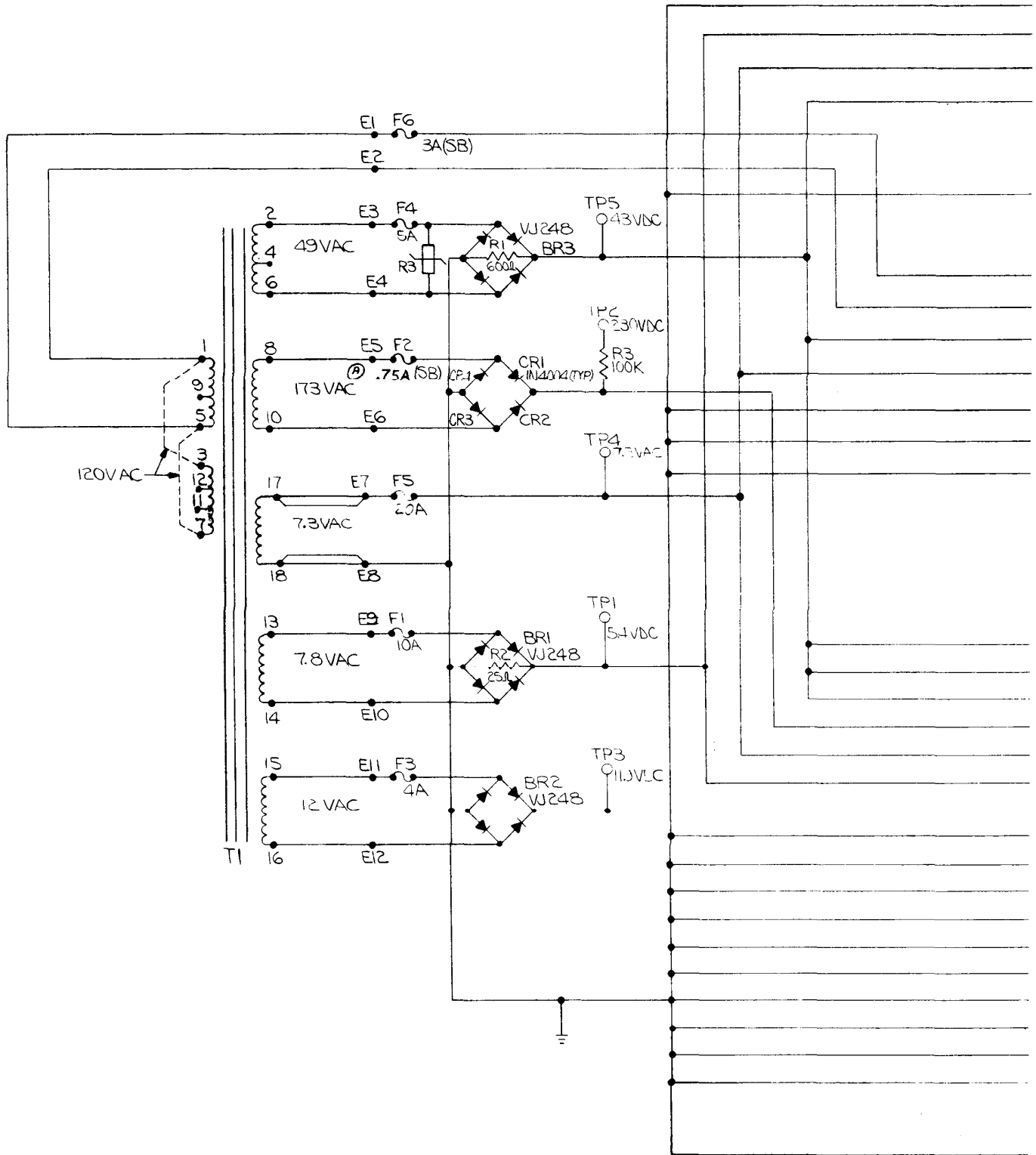
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REMOVE ALL BURRS		DATE 9-76		Bally MANUFACTURING CORP #1094-E	
CHK BY	DATE	CHK BY	DATE	OCT 6 1976	2640 BELMONT AVENUE CHICAGO, ILLINOIS #1074-E
APR BY	DATE	PRINT	CONTROL	FILE	NO. USED ON/W
APR BY	DATE	NAME	DISPLAY BOARD SCHEMATIC	1118-E	1118-E
FINISH	DATE	MATERIAL			PART NO.
HARDENING	DATE				W-1184C

NO.	LET.	CHANGE	DATE	BY	CR.
1	-	ADDED NOTE 3 #ASTROSKIS	11-8-76	5.7	W8

DO NOT SCALE DRAWING

TRANSFORMER ASSEMBLY A2



J1
PLAYFIELD

- 1 GEN. ILL. RET.
- 7 SW. ILL. BUS.
- 8 GEN. ILL. BUS.
- 6 SOLENOID BUS.
- 4 KEY
- 3 SPARE
- 5 GENERAL ILL. BUS (B)
- 2 GEN. ILL. RET. (D)

J2
CABINET

- 6 A.C. POWER
- 7 A.C. RET
- 2 SOLENOID BUS
- 1 GEN. ILL. BUS.
- 5 GEN. ILL. RET.
- 9 FLIP SW. RET.
- 10 POWER LINE GRD
- 3 SPARE
- 4 SPARE
- 8 KEY

J3
BACKBOX

- 9 RELAY
- 12 Z.C. INPUT, A4J4-15 (C)
- 13 SOLENOID BUS.
- 5 TO REG (190) INPUT
- 11 GEN. ILL BUS
- 6 SW. ILL BUS
- 3 TO REG (+5) INPUT
- 2 GEN. ILL. RET.
- 3 SW. LAMP RET.
- 4 SW. LAMP RET
- 14 SW. LAMP RET.
- 15 TO REG (+5) RFT.
- 16 TO REG 190 RET.
- 17 TO REG +5 FILT RET.
- 18 TO REG (190) FILT RET.
- 19 SOLENOID RET. BUS.
- 20 SOLENOID RET. BUS.
- 10 GEN. ILL. BUS.
- 7 KEY
- 1 GEN. ILL. RET.

NOTES:

1. WIRE A.C. POWER AND TERMINALS PER TABLE 1.
2. VOLTAGES SHOWN ARE FOR GAME IN POWER-UP CONDITION.
3. PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

TABLE 1
POWER LINE CONNECTIONS

LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1 TO 3 AND 9 TO 11	1 AND 9
120	1 TO 3 AND 5 TO 7	1 AND 5
220	3 TO 5	1 AND 12
240	3 TO 5	1 AND 7

1118-F
LBS. PER M -

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NO.	LET.	CHANGE	DATE	BY	CHK.
2	U	J1-2 READ "GND"	5-20-77	CH	76
2	C	J3-12 READ "Z.C. INPUT"	5-20-77	CH	76
1	B	Added JUMPER J1-5 To J3-11	5-2-77	SCG	WS
1	A	F2 WAS 5.0A	5-2-77	SCG	WS

REMOVE ALL BURRS

TOLERANCES ON
DIMENSIONS UNLESS
OTHERWISE SPECIFIED
FRACTIONS ±
DECIMALS ±
ANGLES ±

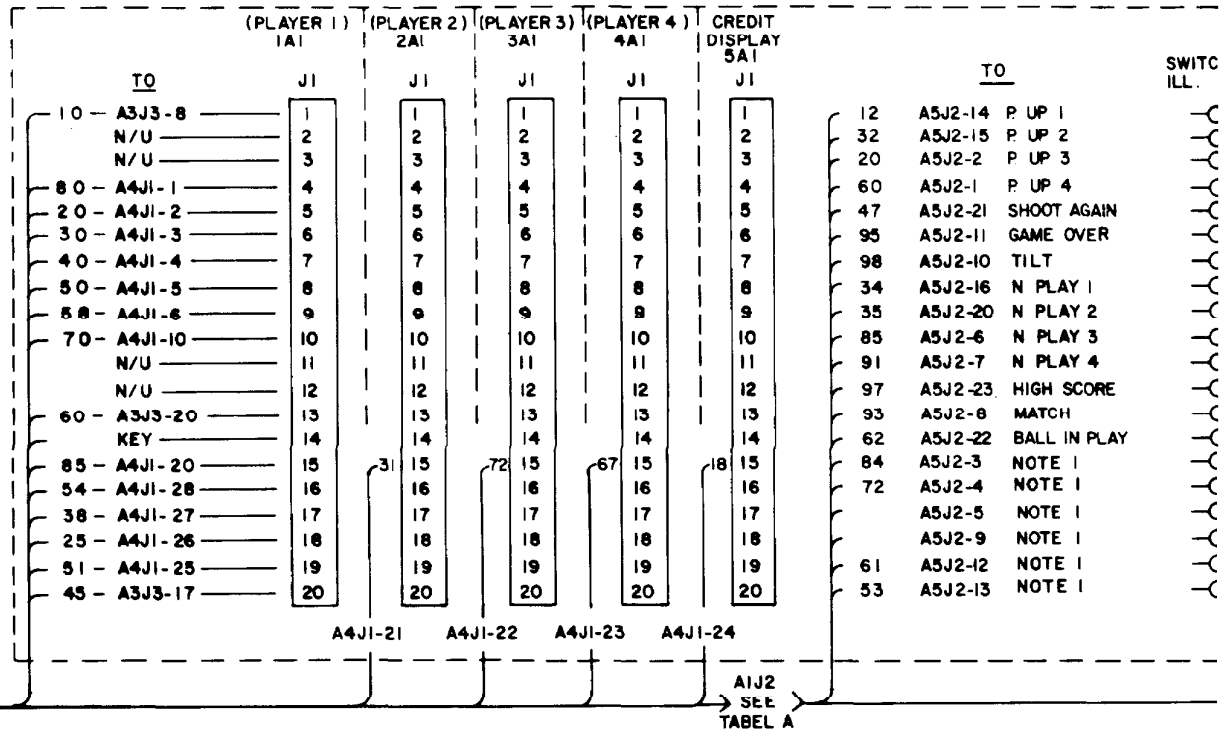
DO NOT SCALE DRAWING

DATE 2-21-77	DATE 2-11-77	Bally MANUFACTURING CORP. #1094	
CHK. BY CSC	DATE 2-11-77	FEB 21 1977 2640 BELMONT AVENUE CHICAGO, ILLINOIS 1074-E	
APD BY DATE	DATE	PRINT CONTROL	TOTAL
FINISH	DATE	RANGE	ASSEMB. NO. USED ON/7
HARDENING	DATE	POWER TRANSFORMER MODULE SCHEMATIC	
MATERIAL		PART NO. W-1185-	

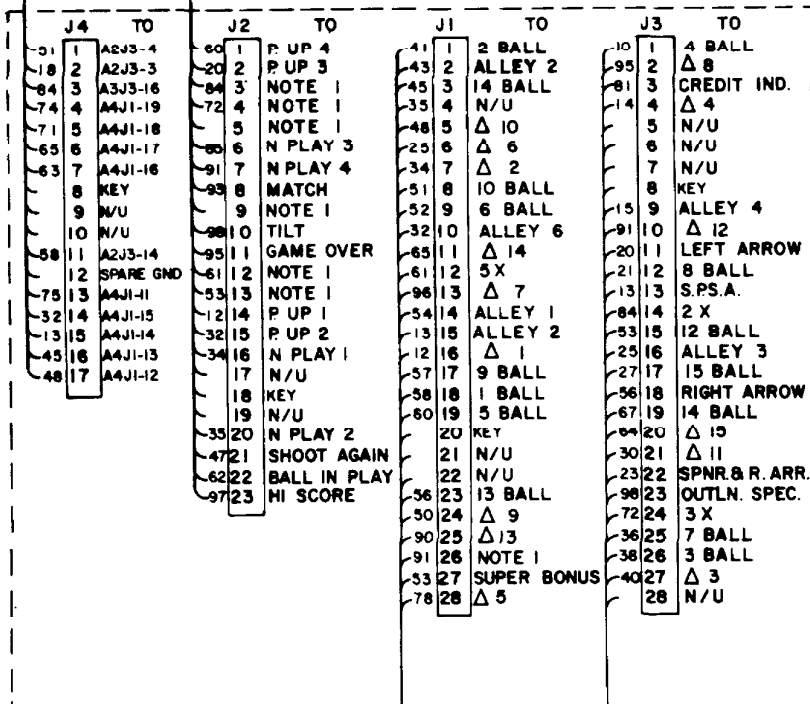
TABLE A AIJ2

FROM	PIN	WIRE
A5J3-8	1	20
A5J2-14	2	12
A2J3-2	3	50
A2J3-11	4	10
A5J2-23	5	97
A5J2-15	6	32
A5J2-22	7	62
A5J2-8	8	93
A5J2-1	9	60
A5J2-2	10	20
A5J2-11	11	95
A5J2-21	12	47
A5J2-10	13	98
A5J2-7	14	91
A5J2-6	15	85
A5J2-20	16	35
A5J2-16	17	34
A2J3-10	18	40
A2J3-1	19	70
A5J2-13	20	53
A5J2-12	21	61
A5J2-4	22	72
A5J2-13	23	84
	24	

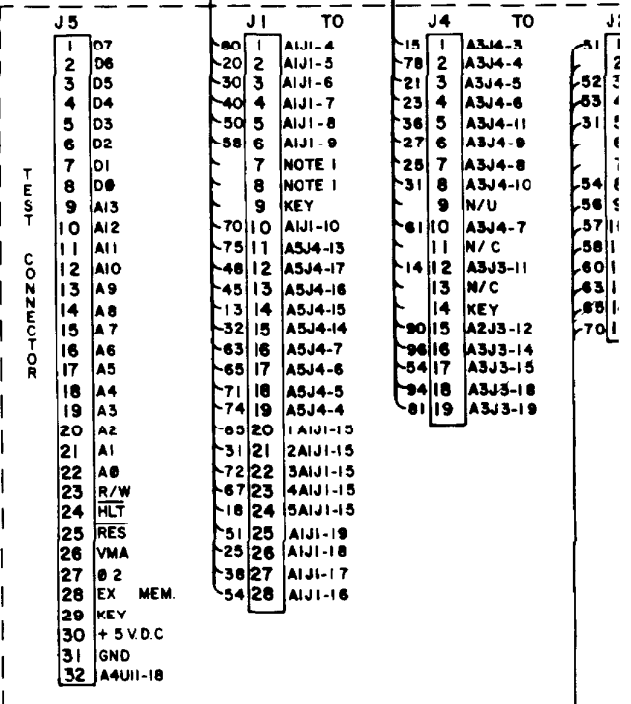
AI INSERT



LAMP DRIVER A5



MPU A4

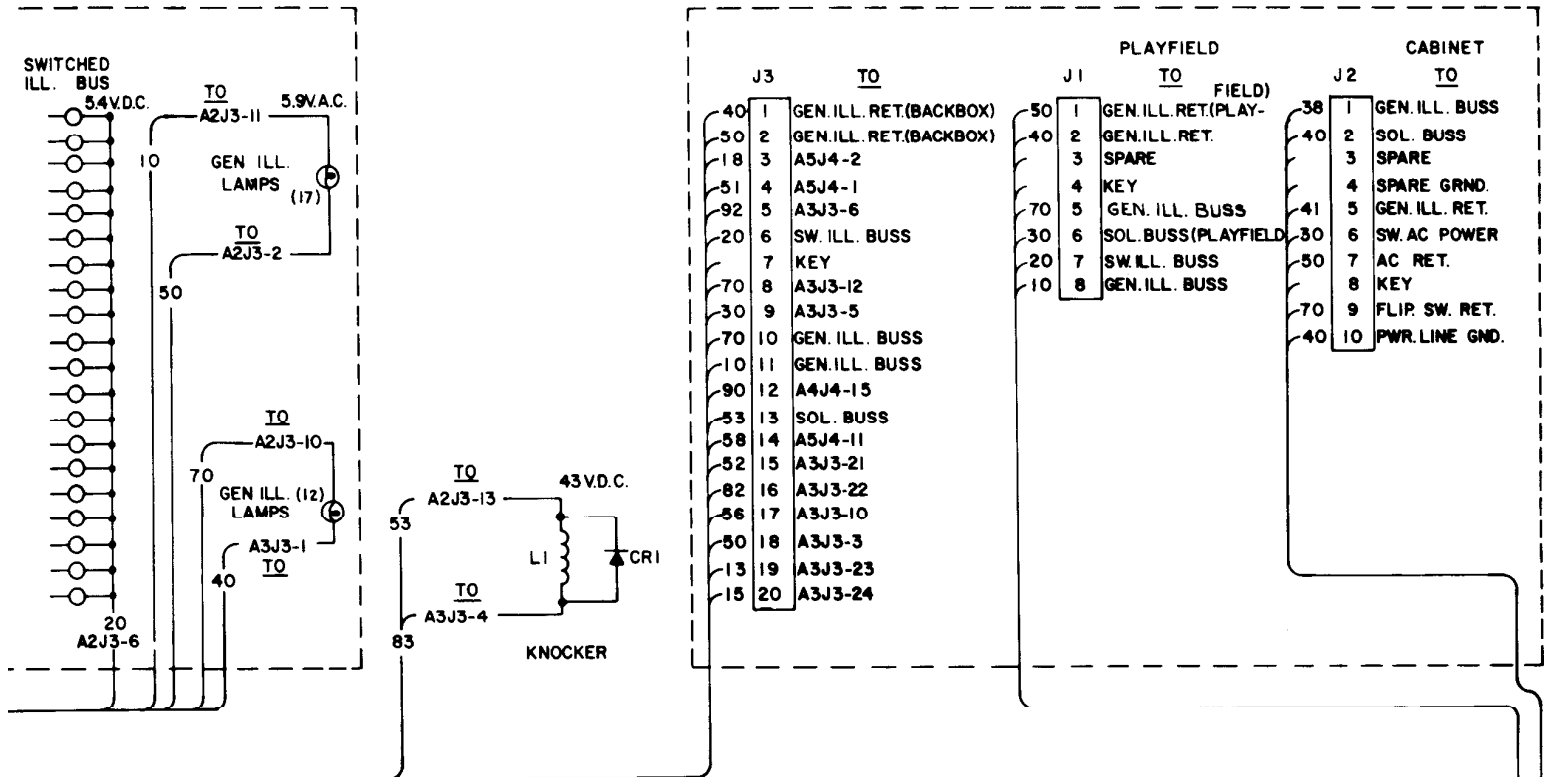


TO CABINET

TO PLAYFIELD

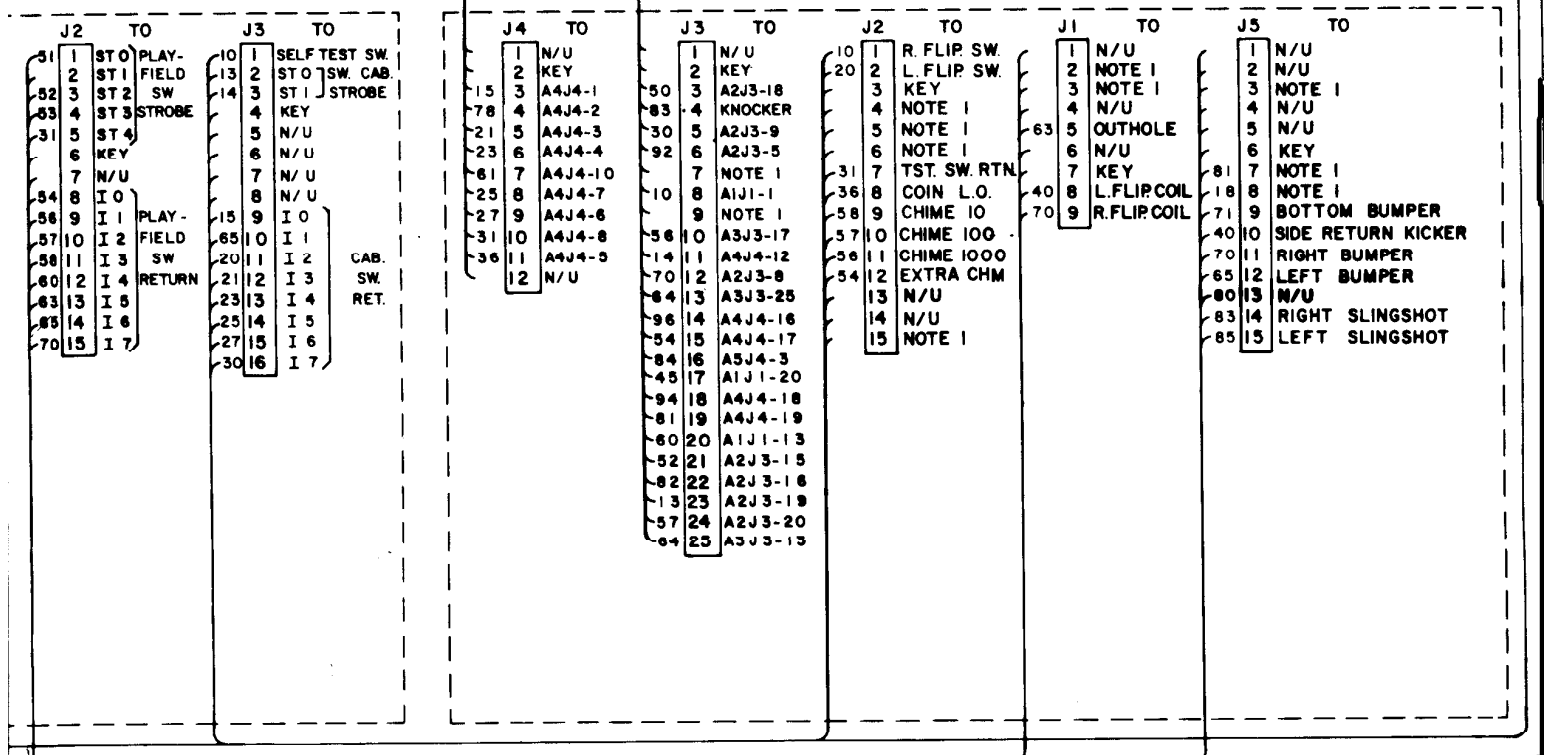
NOTES

- 1 THESE PINS ARE RESERVED FOR FUTURE USE
- 2 WIRE COLORS ARE SHOWN FOR ALL CONNECTOR PINS. SOME WIRES MAY NOT BE USED IN ALL GAMES
- 3 * INDICATES AID TEST POINT



14

VOLTAGE REGULATOR / SOLENOID DRIVER A3



SHEET 1 OF 3

WIRE COLOR CODE

1-RED	6-BROWN
2-BLUE	7-ORANGE
3-YELLOW	8-BLACK
4-GREEN	9-GRAY
5-WHITE	0-NO TRACE

REMOVE ALL BURRS

TOLERANCES ON
DIMENSIONS UNLESS
OTHERWISE SPECIFIED

FRACTIONS 1/64

DECIMALS .001

ANGLES 1

DO NOT SCALE DRAWING

OR BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

AP BY DATE

Bally MANUFACTURING CORP. 8-BA
2640 BELMONT AVENUE
CHICAGO ILLINOIS 1118-E

BACKBOX DIAGRAM

TOTAL

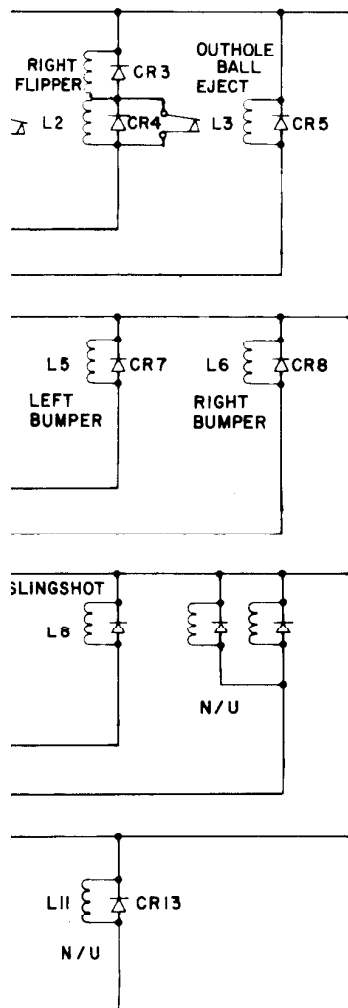
SCALE

ASSEMBLY USED ON

PART NO

W-1186-3c

/DC

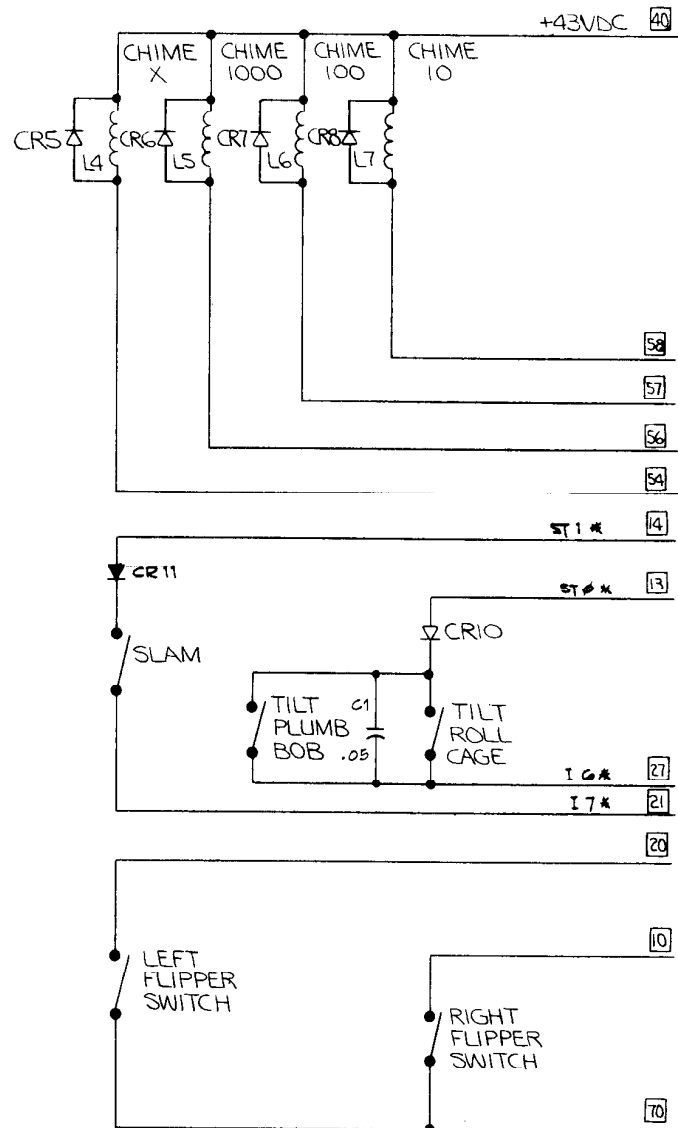


58	A5J1-18	1 BALL	
60	A5J1-19	5 BALL	
57	A5J1-17	9 BALL	
56	A5J1-23	13 BALL	
54	A5J1-14	ALLEY 1	
13	A5J1-15	ALLEY 5	
12	A5J1-16	Δ 1	
78	A5J1-28	Δ 5	
50	A5J1-24	Δ 9	
90	A5J1-25	Δ 13	
91	A5J1-26	NOTE 1	
53	A5J1-27	SUPER BONUS	
41	A5J1-1	2 BALL	
52	A5J1-9	6 BALL	
51	A5J1-8	10 BALL	
45	A5J1-3	14 BALL	
43	A5J1-2	ALLEY 2	
32	A5J1-10	ALLEY 6	
34	A5J1-7	Δ 2	
25	A5J1-6	Δ 6	
48	A5J1-5	Δ 10	
65	A5J1-11	Δ 14	
35	A5J1-4	NOTE 1	
61	A5J1-12	5x	
96	A5J1-13	Δ 7	
	A5J1-20	KEY	
38	A5J3-26	3 BALL	
36	A5J3-25	7 BALL	
67	A5J3-19	11 BALL	
27	A5J3-17	15 BALL	
25	A5J3-16	ALLEY 3	
98	A5J3-23	OUTLANE SPECIAL	
40	A5J3-27	Δ 3	
30	A5J3-21	Δ 11	
64	A5J3-20	Δ 15	
23	A5J3-22	SPNR 8 RETRN. ARRW	
72	A5J3-24	3x	
10	A5J3-1	4 BALL	
21	A5J3-12	8 BALL	
53	A5J3-15	12 BALL	
20	A5J3-11	LEFT ARROW	
15	A5J3-9	ALLEY 4	
13	A5J3-13	CREDIT IND	
14	A5J3-4	Δ 4	
95	A5J3-2	Δ 8	
91	A5J3-10	Δ 12	
56	A5J3-18	RIGHT ARROW	
81	A5J3-3	SPSA	
84	A5J3-14	2x	
20	A2J1-7	FEATURE LAMP BUS	

SHEET 2 OF 3

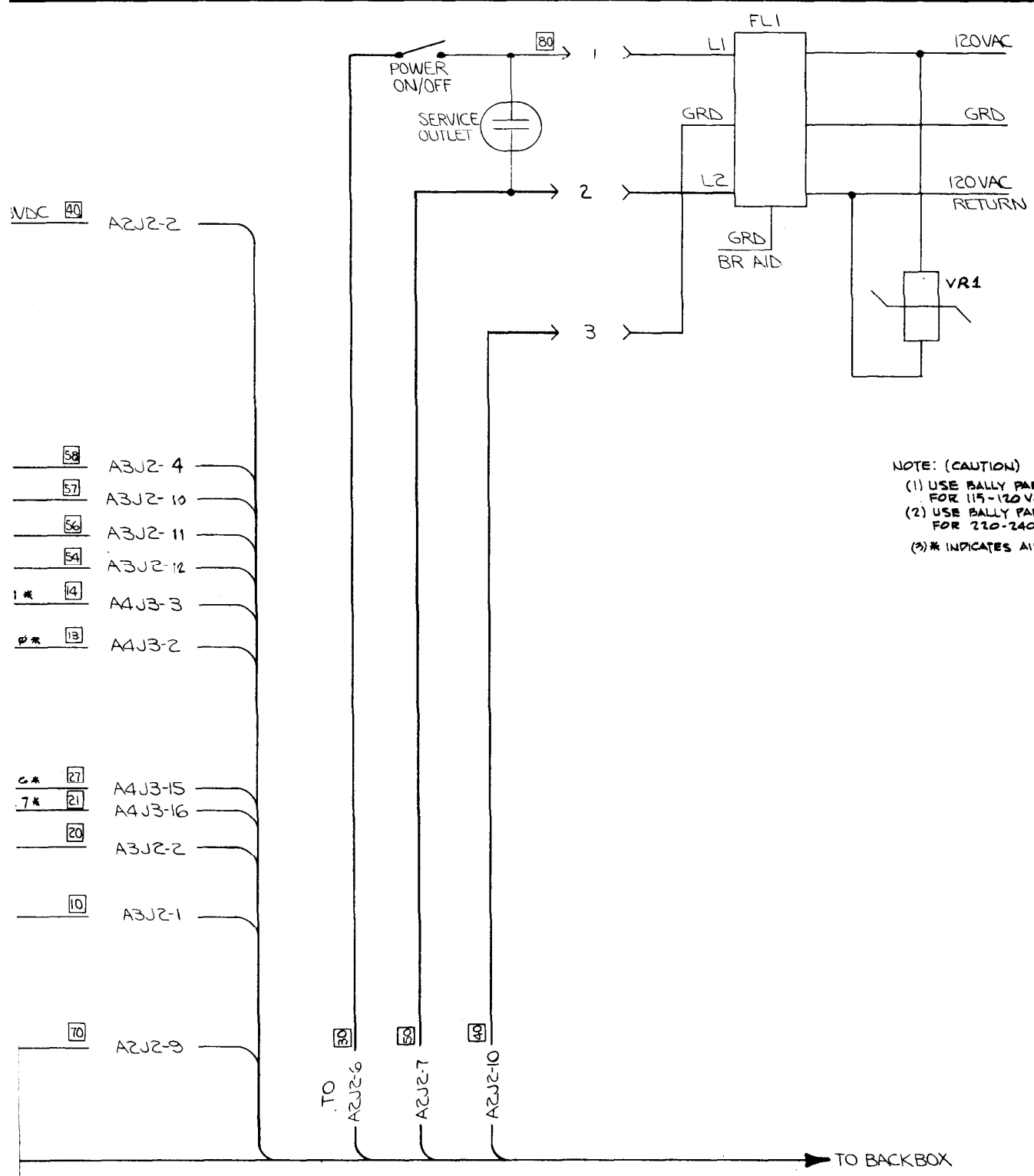
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REMOVE ALL BURRS		DR BY DATE		Bally MANUFACTURING CORP		8-BALL	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CR BY DATE		2640 BELMONT AVENUE		1118-E	
FRACTIONS 1/64		DATE		CHICAGO, ILLINOIS			
DECIMALS .001		DATE					
ANGLES 1		DATE					
DO NOT SCALE DRAWING		FINISH		NAME		ASSEMBLY USED OR N	
		HARDENING		MATERIAL		PART NO	
				PLAYFIELD DIAGRAM		W-1186-3c	



TO	J1 PIN	TO	J1 PIN
A4J3-9	1	A4J3-3	11
A4J3-10	2	A2J2-2	15
A4J3-11	3	A3J2-8	16
A4J3-12	4	A2J2-1	17
A4J3-13	5	A2J2-5	18
A4J3-14	6	A4J3-1	19
A4J3-15	7	A3J2-7	20
A4J3-16	8		
A4J3-2	10		

A7 CABINET



NOTE: (CAUTION)
 (1) USE BALLY PART NO E-713 FOR 115-120 VAC.
 (2) USE BALLY PART NO E-713-1 FOR 220-240 VAC.
 (3) * INDICATES AID TEST POINT

CABINET ASSY. WIRING

SHEET 3 OF 3 SHEETS

DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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REMOVE ALL BURRS		DATE 3-18		Bally MANUFACTURING CORP. E.C.	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE 3-18		2640 BELMONT AVENUE CHICAGO, ILLINOIS	
FRACTIONS ±		DATE 3-18		TOTAL 3	
DECIMALS ±		DATE 3-18		SCALE 1/2	
ANGLES ±		DATE 3-18		ASSEMB. NO. USED ON/1	
DO NOT SCALE DRAWING		DATE 3-18		1118-E	
NO. LET. CHANGE DATE BY CK.		DATE 3-18		PART NO. W-1186-1	