

BCD-IBM - TYP-BALL - 1167927



DURA BUSINESS MACHINES
DIVISION OF DURA CORPORATION

MACH-10 B.C.D. READER AND PUNCH WITH/WITHOUT AUX. READER/INPUT AND AUX. PUNCH/OUTPUT

REV. LETTER	REVISIONS	E.C.	DRAWN	CHECKED	DATE
A	PRODUCTION RELEASE	1223	3	3	10-14-64
K	SHT. 1-UPDATE INDEX SHT. 4-ADDED K712-8,9 & 10 SHT. 7-REDRAWN SHT. 8-REDRAWN SHT. 9-PJ701-H WAS PJ701-EE PJ701-K WAS PJ701-FF SHT. 10-8006310 ASS'Y WAS 8005419 SHT. 11-ADDED PARITY CHECK CIRCUIT & S406 SHT. 12-ADDED K712 & K713 REMOVED K708 & K709	1865	2	2	7-25-66
L	SHT. 1-UPDATE INDEX SHT. 7-PJ104-C3 WAS PJ103-C3	1896	2	2	9-6-66
M	SHT. 1-UPDATED INDEX SHT. 7-PJ401-B6 WAS PJ406-B6 SHT. 9-SC4345C44 WIRING CHANGED SHT. 11-SC44 WAS SPACE/BACKSPACE SHT. 12-SC43 TIMING CHANGED SC44 WAS SPACE/BACKSPACE	1899	2	2	9-22-66

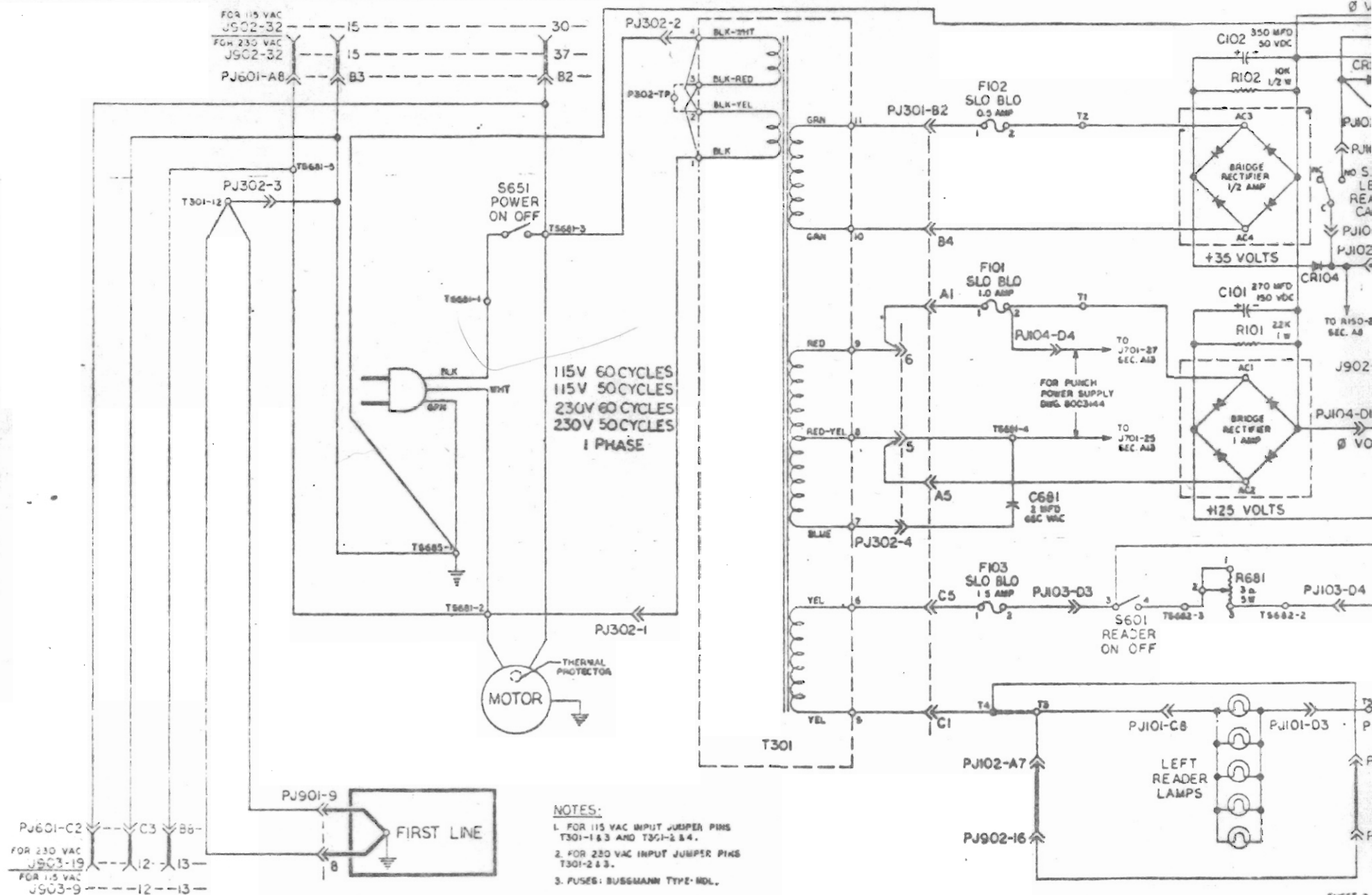
EXPORT →	13	8003213	B	1327	12-16-64
	12	8003149	G	1899	8-16-66
	11	8003148	F	1899	8-16-66
	10	8003147	D	1865	7-5-66
	9	8003146	J	1899	8-16-66
	8	8003145	C	1865	7-5-66
	7	8003144	J	1899	8-16-66
	6	8003143	C	1308	10-28-64
	5	8003142	B	1308	10-28-64
	4	8003141	F	1865	7-5-66
	3	8003140	C	1639	10-13-65
	2	8003139	C	1807	4-6-66
	1	8003138	M	1899	8-16-66

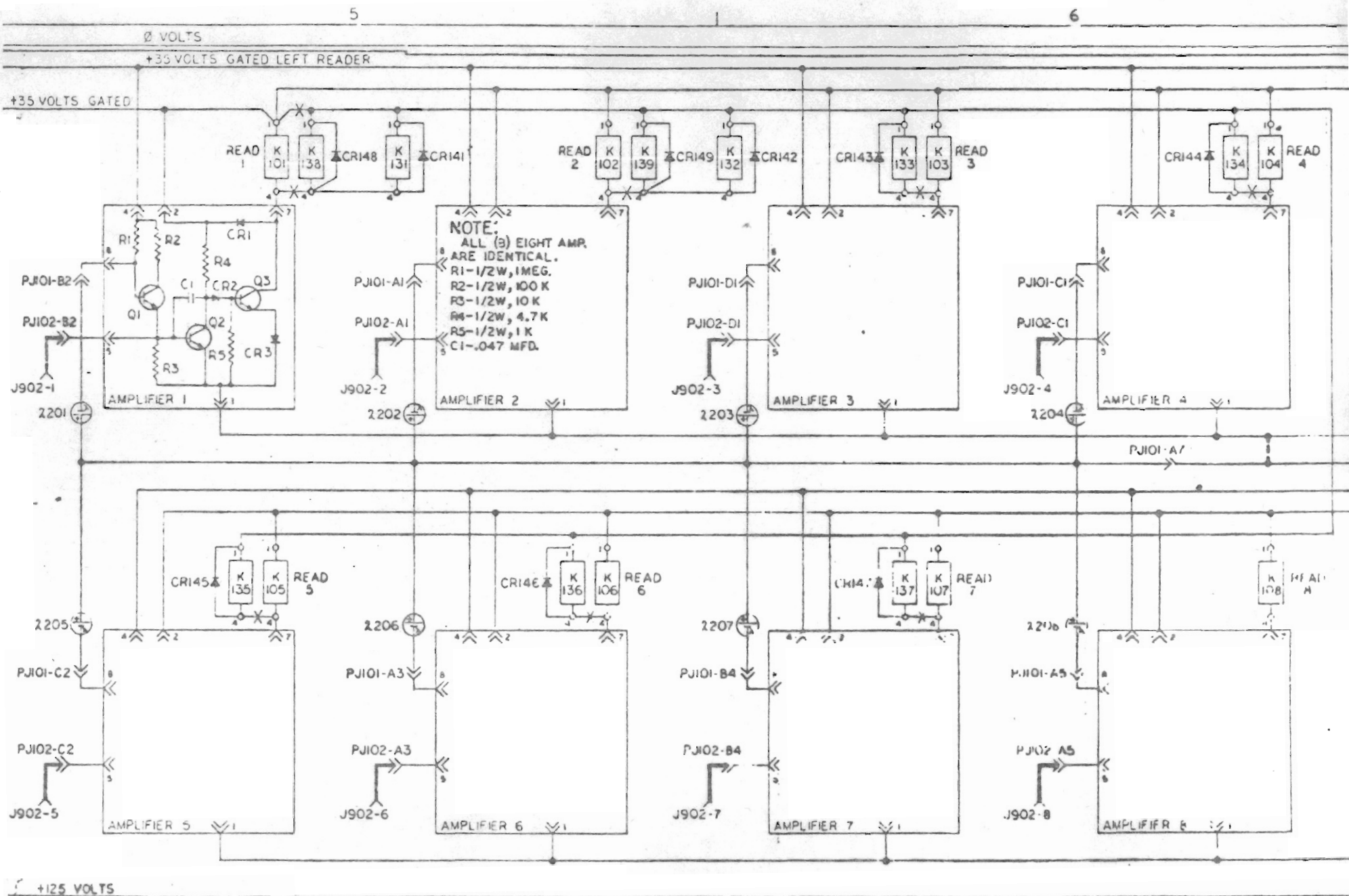
CONSTANT VOLTAGE
TRANSFORMER

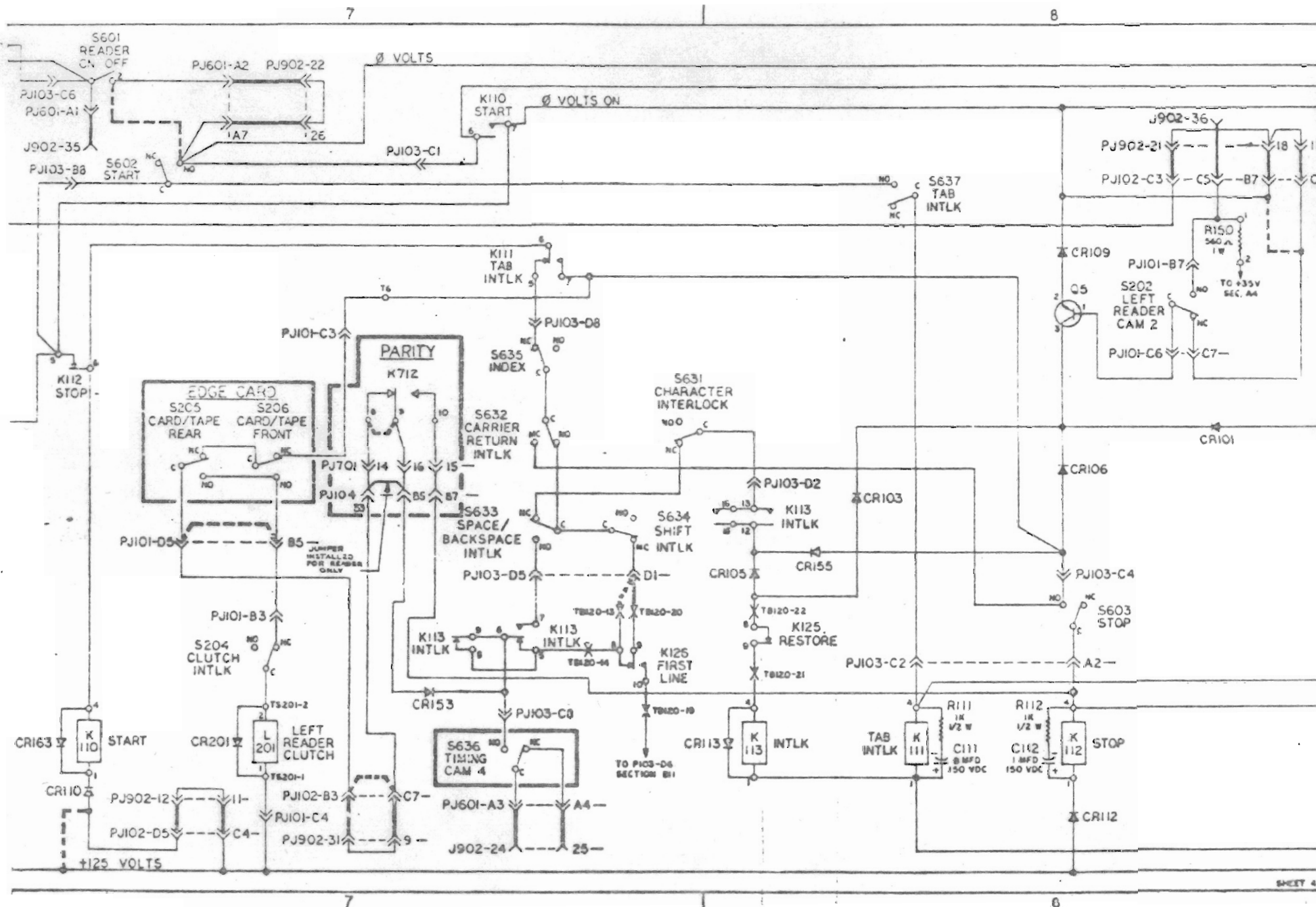
CK. Kerr 10-14-64 ENG. Davis 10-14-64

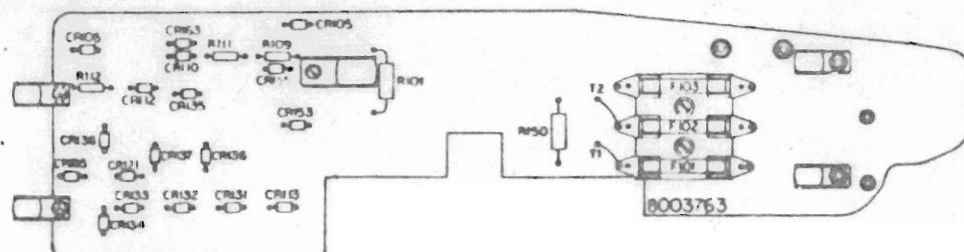
SHT. PART NO REV. E.C. DATE
SCHEMATIC INDEX SHEET 1 OF 12

DRAWING NUMBER
8003138

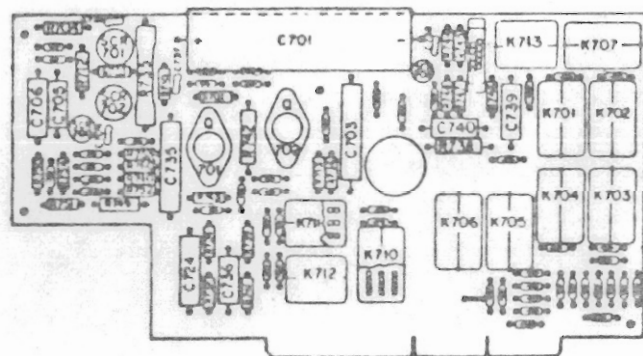




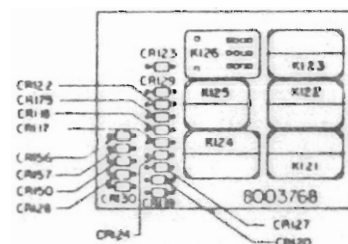




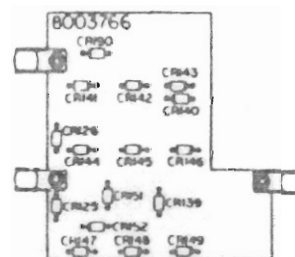
8003764 ASSY



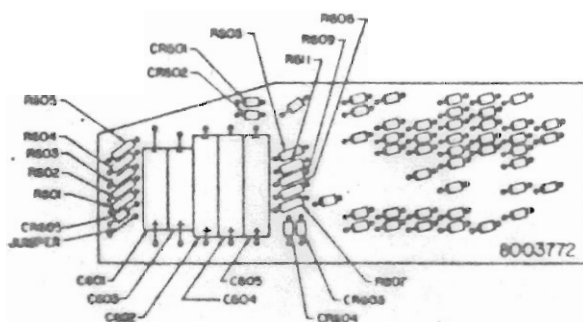
8006310 ASSY



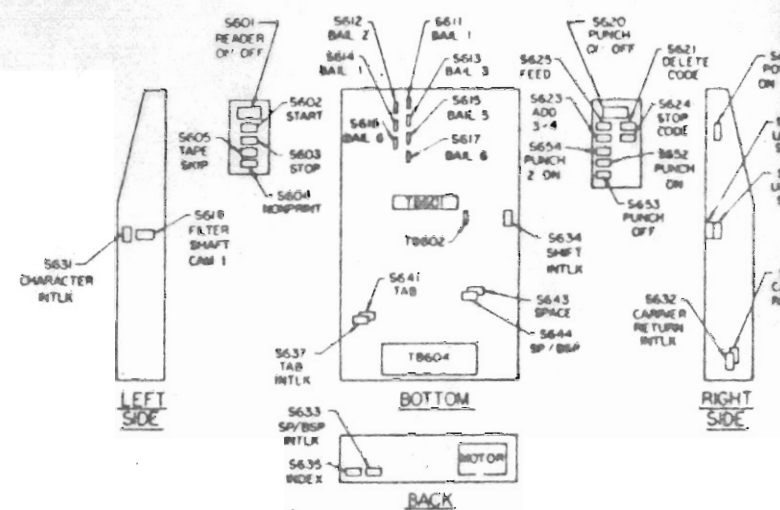
8003769 ASSY



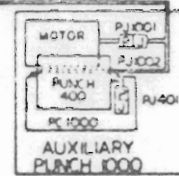
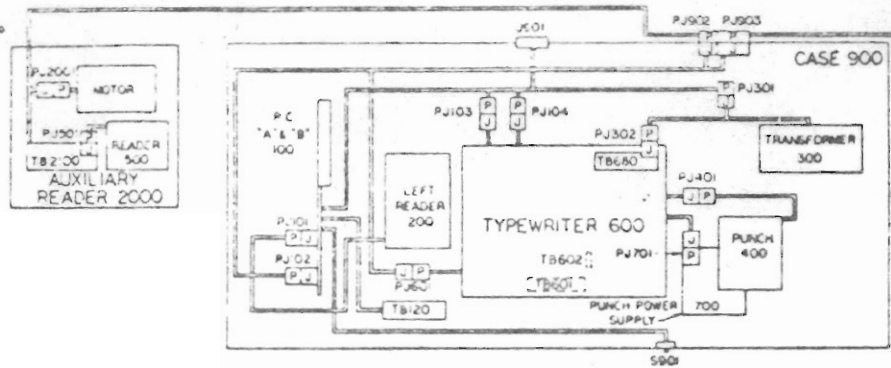
8003767 ASSY



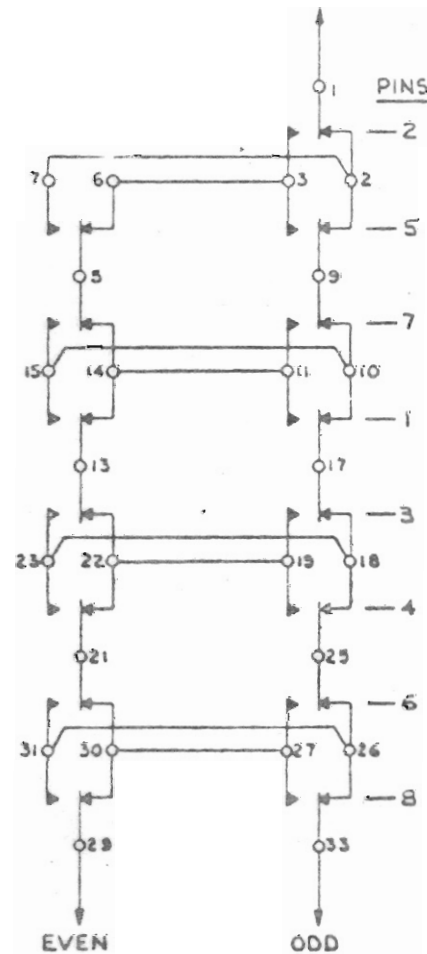
8003773 ASSY



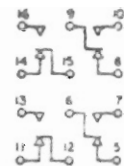
MACH 10 B.C.D. READER AND PUNCH



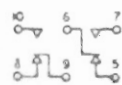
PARITY CHECK CIRCUIT



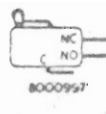
SWITCH NAME	SWITCH NO	POLES	
LEFT READER CAM 1	5201	A4	
LEFT READER CAM 2	5202	A8	
LEFT READER CAM 3	5203	A8	
LEFT READER CAM 4	5204	B7	
CARD/TAPE REAR	5205	A7	
CARD/TAPE FRONT	5206	A7	
PUNCH CAM	5401	B3	
END OF TAPE	5402	B3	
AUTO CARD FEED	5403	B3	
DIE CARD SEVER	5404	B3	
READER ON-OFF	5405	B4, B7	
READER START	5102	A7	
READER STOP	5603	B8	
MANUAL NONPRINT	5604	A9	
TAPE SKIP	5605	A9	
BAR 1	5611	A3	
BAR 2	5612	A3	
BAR 3	5613	A4	
BAR 4	5614	A4	
BAR 5	5615	A4	
BAR 6	5616	A4	
BAR 7	5617	A4	
FILTER CAM 1	5618	A4	
PUNCH ON-OFF	5620	B3	
DELETE CODE	5621	A7	
ADD 374	5622	A3	
STOP CODE	5623	A7	
FEED CAM/TAPE	5625	B3	
MANUAL INTERLOCK	5631	A7	
SHIFT AUTO/BACK	5632	A7	
SHIFT/SPACE INTER	5633	B7	
SHIFT INTERLOCK	5634	A7	
INDEX	5635	A7	
TAPE CAM 4	5636	B7	
TAPE INTERLOCK	5637	A8	
YAS	5641	A8	
PARALLEL BETWEEN	5642	A8	
SPACE	5643	A7	
BACKSPACE	5644	A7	
UPPER SHIFT	5645	A8	
LOWER SHIFT	5646	A8	
POWER ON-OFF	5651	A3	
PUNCH ON	5652	B4	
PUNCH OFF	5653	B4	
PUNCH 2 ON	5654	B4	
PUNCH SELECT/ALL	5901	B4	
FIRST LINE	5902	B4	
PARITY STROB	5406	A13	



4C RELAY
8040004-24 V
8040001-115 V



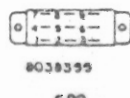
2C RELAY
8040000-115 V



SNAP ACTION SWITCH
8000957
8000552
8038050

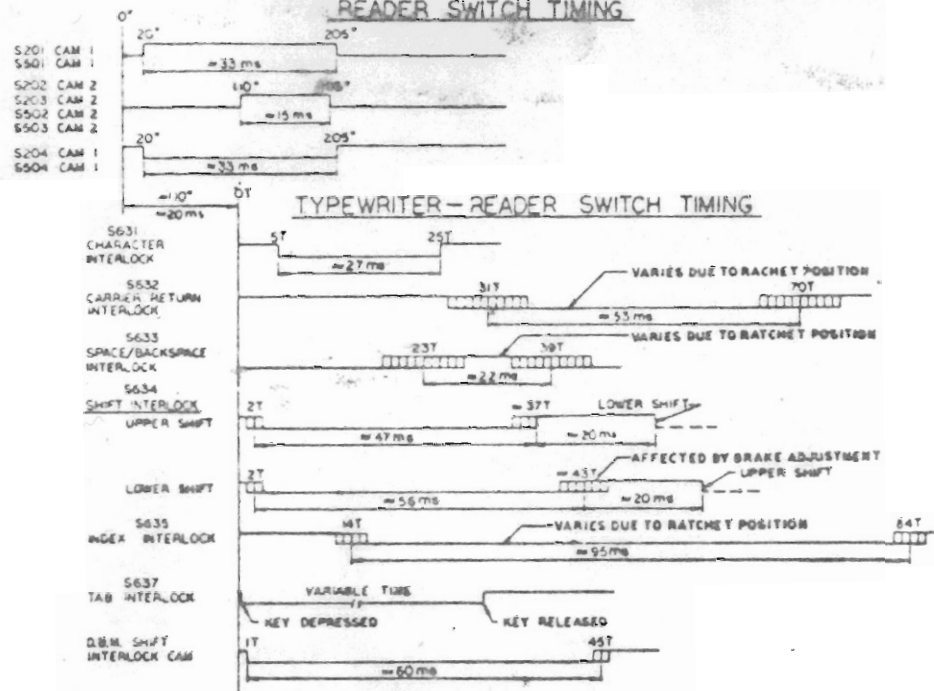


TOGGLE SWITCH
8038023
8038026
8038024

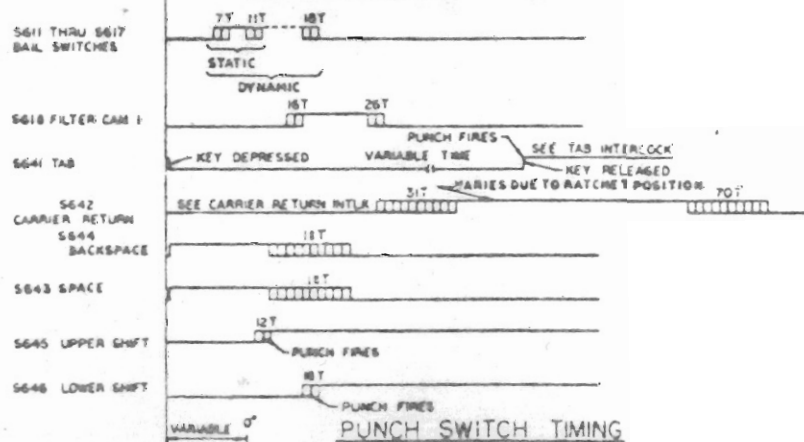


SLIDE SWITCH
8038355
8038354

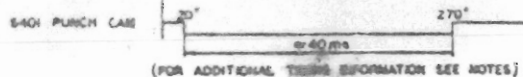
TYPEWRITER - READER SWITCH TIMING



5611 THRU 5617
BAIL SWITCHES



PUNCH SWITCH TIMING



RELAY NAME	RELAY NO	SGL		TERM 6		TERM 7		TERM 8		TERM 9		TERM 10	
		TERM 1	2	3	4	5	6	7	8	9	10	11	12
HEAD 1	K10	A5	A2	A2	A								
HEAD 2	K12	A5	A2	A2	A								
HEAD 3	K13	A6	A6	A6	A6								
HEAD 4	K14	A6	A6	A6	A6								
HEAD 5	K15	A6	A6	A6	A6								
HEAD 6	K16	A6	A6	A6	A6								
HEAD 7	K17	A6	A6	A6	A6								
HEAD 8	K18	A6	A6	A6	A6								
TAP HCD	K19	B11	B11	B11	B11								
STAY	K20	A7	A7	A7	A7								
TAP INTO BLOCK	K21	A7	A7	A7	A7								
STOP	K22	A7	A7	A7	A7								
INTERLOCK	K23	A7	A7	A7	A7								
TAP GAP	K24	A9	A9	A9	A9								
MONITOR	K25	B9	B9	B9	B9								
MONITOR	K26	B9	B9	B9	B9								
TAP GAP MONITOR	K27	A9	A9	A9	A9								
PASTURE	K28	A9	A9	A9	A9								
APPLY VCB	K29	A9	A9	A9	A9								
HEAD 1	K30	A12	A12	A12	A12								
HEAD 2	K31	A12	A12	A12	A12								
HEAD 3	K32	A12	A12	A12	A12								
HEAD 4	K33	A12	A12	A12	A12								
HEAD 5	K34	A12	A12	A12	A12								
HEAD 6	K35	A12	A12	A12	A12								
HEAD 7	K36	A12	A12	A12	A12								
HEAD 8	K37	A12	A12	A12	A12								
SENSE 1	K38	A13	A13	A13	A13								
SENSE 2	K39	A13	A13	A13	A13								
SENSE 3	K40	A13	A13	A13	A13								
SENSE 4	K41	A13	A13	A13	A13								
SENSE 5	K42	A13	A13	A13	A13								
SENSE 6	K43	A13	A13	A13	A13								
SENSE 7	K44	A13	A13	A13	A13								
CNO. FLD	K45	A15	A15	A15	A15								
CNO. FLD STOP	K46	A15	A15	A15	A15								
MUNCH ON	K47	A15	A15	A15	A15								
MUNCH OFF	K48	A15	A15	A15	A15								
PARTY	K49	A15	A15	A15	A15								
PARTY	K50	B13	B13	B13	B13								

NOTES:

1. INDICATED TEETH ARE ON DRIVE SHAFT GEAR.
2. INDICATED DEGREES ARE ON LEFT READER GEAR.
3.  INDICATES ALLOWABLE TOOTH VARIATION.
4. 1 CHAIR/SEC; 65 MM/CMR; 1.353 MM/TOOTH; 48 TEETH = 360°.
5. 25° TOLERANCE ON TIMING SPECIFIED IN DEGREES.
6. --- INDICATES ADD FOR OPTIONS.
7. --- INDICATES REMOVE FOR OPTIONS.
8. 0 INDICATES INSTALL FOR OPTIONAL FEATURE.
9. 000 4 SECS; TIMING EQUALS 13.2 TEETH.