

PRO-800 PARTS LIST

Ckt No.	CROWN Part No.	Description	Notes
CAPACITORS			
C1, C3	2523A	4.0 mfd 370VAC OIL	
C2	2460	2.75 mfd 330VAC OIL	
C4	2573	1000 mfd 60V ELEC.	
C5	2529	2X.5 mfd 600V OIL	
C6	1635	100 mfd 12V ELEC.	
C7	1679	225 mfd 30V ELEC.	
C8	2615	4000 mfd 6V ELEC.	
CONNECTORS			
J1M, J3M, J4M, J7M	2052	AMP 480135-1	On amp connectors J-1, J2, J3, J4, J7, plug connector is identified as F, cap connector is identified as M. Lock ring included. Mating plug (for remote control) is CPN 7811; pins are CPN 2444.
J1F, J3F, J4F, J7F	2051	AMP 480134-1	
J2M	7769	AMP 480086-1	
J2F, J14	7770	AMP 480085-1	
AMP Connector Pins	2444		
J5, J6, J8, J9, J10	2391		
J11, J12, J13	1755A		
J15	7786	AMP 480087-1	
J16	2432		
J17	1747		
J18	1545		
J19	1546		
FUSES			
F1	1748	3AG, 3AMP	
INTEGRATED CIRCUITS			
IC1	2624	MOT MC789P	
IC2, IC5, IC6	2622	MOT MC724P	
IC3, IC4	2623	MOT MC725P	
LAMPS			
I1, I2, I3, I4	2639	Incandescent No. 327	
I5, I6	2611	Incandescent No. 304	
I7	2899	Incandescent No. 1866	
I8	2900	Incandescent No. 1822	
MOTORS			
B1	2420	DRIVE MOTOR	Use 2478 on "J" Series
B2, B3	2478A	REEL MOTORS	
PHOTOCELLS			
V1	1619	CL-403AS	
V2, V3	2512	GE C425P1	
RECTIFIERS			
CR1, CR24, CR25	2801	1N914	
CR2, CR3	2863	SEM. S-35A	
CR4, CR5, CR6, CR7	2851	1N4003	

RELAYS - SOLENOIDS

K1, K2, K3	1253B	P-B KHP17D52
K4	2748	MAIN SOLENOID

RESISTORS

R1	2506	50 -0- 30W OR-30	Starts at S/N J3270
R1	2507	75 -0- 30W OR-30	
R2	2590	65 -0- 55W	
R3	2713	30 -0- 10W HLM-10	
R4	2656	33 -0- 2W	
R5	2609	390 -0- ½W 20%	
R34	2355	5.6 -0-, 1W	

SWITCHES

SW1, SW2, SW3, SW4	2614	DIALCO 513-0101-604
SW5, SW6, SW7, SW8	2612	DPDT SLIDE

TRANSFORMER

T1	2746	POWER
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TRANSISTORS

Q1	2976	2N3054
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PLUG-IN MODULES

L-1	COMPUTOR LOGIC CKT.	See Layout for parts-changes Has revised Layout
L-2	COMPUTOR LOGIC CKT.	
H T-1	HI-TORQUE CKT.	

MECHANICAL PARTS

	CROWN PART NO.	NOTES
Power Reel Motor Switch Ass'y	40044	up to S/N J3219 S/N J3220 & After includes relays and plug-in modules
Control Switch Ass'y	40045	
Power Supply Ass'y	40079	
Power Supply Ass'y	40212	
Electronic Chassis Ass'y	40070	
Capstan - Flywheel Ass'y	16136	
Capstan Housing Ass'y	40043	
Capstan Bearing	1722	
Flywheel Guard Ass'y	47335	
Speed Shift Loop	7204	
Wiring Harness Ass'y	40067	
Solenoid Ass'y	40051	
Solenoid Spring Housing Ass'y	47248	
Solenoid Adjust Screw	2385	
Reel Motor Ass'y	40054	
Reel Flange Ass'y	47288	
Reel Flange Pin	1667	
Reel Flange Cover	2571	
Reel Flange Ring	2566	
Ring Mounting Cap Screw	1904	
Reel Knob	7001	

REPLACEMENT HEADS

Model	SX811, CX811		
	Play Head	2266	Also used on SP811
	Record Head	2267	
	Erase Head	3059	
Model	SX812, CX812		
	Play Head	2418	Also used on SP812
	Record Head	2485	
	Erase Head	3167	
Model	SX822, CX822		
	Play Head	2901	Also used on SP822
	Record Head	2173	
	Erase Head	3058	
Model	SX824, CX824		
	Play Head	2171	Also used on SP824
	Record Head	2172	
	Erase Head	3166	
Model	CX844, CX844		
	Play Head	3088	Also used on SP844
	Record Head	1205	
	Erase Head	3166 (2)	
Model	SX824-P2, CX824-P2		
	Play Head	2171	Quarter-track stereo
	Play Head	2901	Half-track stereo
	Record-Erase Head	1197	
Model	SX822-P4, CX822-P4, SP822-P4		
	Play Head	2171	Quarter-track stereo
	Play Head	2901	Half-track stereo
	Record-Erase Head	2494	Not used on SP822-P4
Model	SX824-P4 chan.		
	Play Head	3088	
	Record Head	2172	
	Erase Head	3166	

HEAD LEAD ASSEMBLIES

SX822 & SX824	Stereo playhead lead	40403
SX822 & SX824	Stereo erase-record head lead	40113
SX824-P4 chan.	4-channel Stereo playhead lead	40
CX811 & CX812	Mono playhead lead	40115
CX811 & CX812	Mono—erase-record head lead	40116
SX811 & SX812, SP811 & SP812	Mono—playhead lead	40333
SX811 & SX812	Mono—erase-record head lead	40118
CX822, CX824	Stereo erase-record head lead	40120
CX822 & CX824	Stereo playhead lead	40121
CX844	4 Channel Stereo erase-record head lead	40122
CX844	4 Channel Stereo playhead lead	40123
SP844	4 Channel Stereo playhead lead	40404
SP822 & SP824	Stereo playhead lead	40334
SP822-P4	2- and 4-track Stereo playhead lead	40392

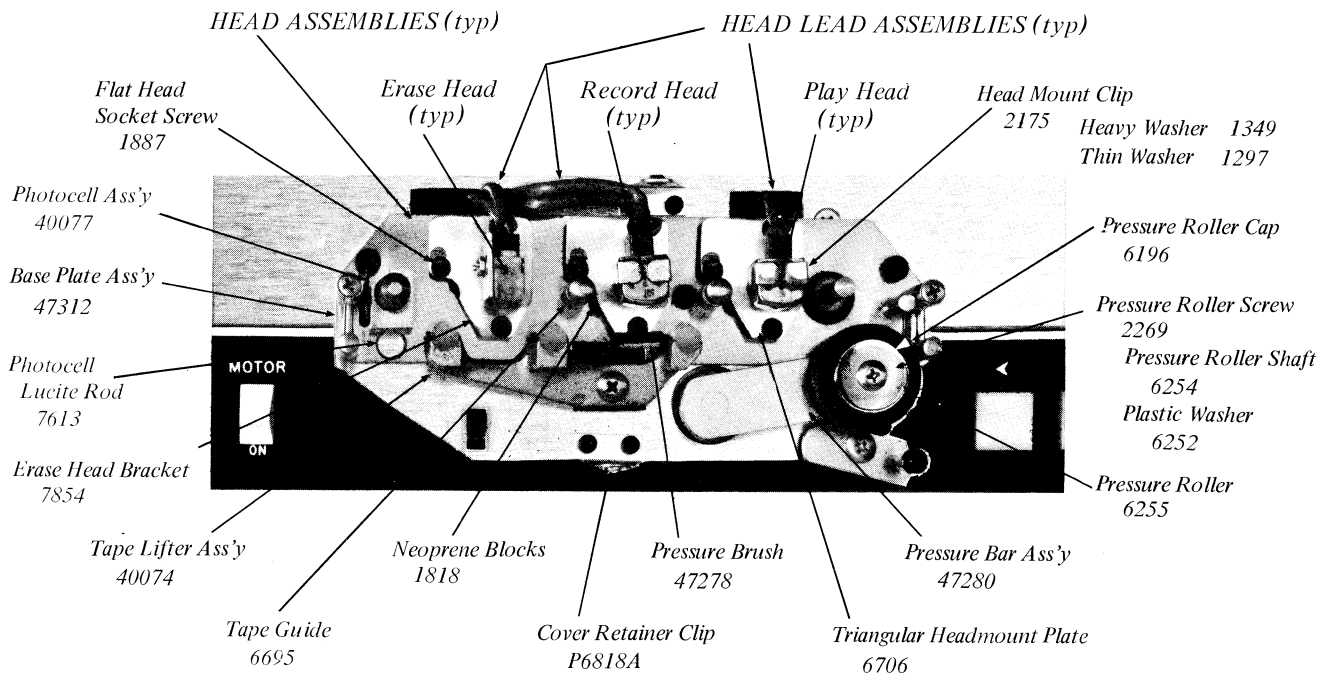
Mother Board Ass'y	40060						Includes Photocell Board
Drive Motor Ass'y	40078						7585, photocells 2512
Drive Motor Fan	2652						
Drive Motor Mount Screw	2280						
Drive Motor Depressed Washer	1295						
Drive Motor Grommet	1605						
Drive Motor Pulley (7½ - 3¼ shift, 15 IPS dia.)	7766						Oversize
Drive Motor Pulley (15 - 7½ shift)	7018						Oversize
Drive Belt	6720						
Speed Reducer Ass'y 1 7/8 IPS	40107						
Speed Reducer Pulley	6114	-	-	-	-	-	Oversize
Speed Reducer Ass'y 1 7/8 - 15/16 IPS	40108						
Speed Reducer Pulley 1 7/8 - 15/16 IPS	7059						
Speed Reducer Belt	6724						
Direction Sensor Disc Ass'y	40057						
Motion Sensor Wheel	2502						
Motion Sensor Centering Spacer	2619						
Motion Sensor Housing	7214						
Motion Sensor Lock Screw	1828						
Motion Sensor P. C. Board	7585						
Head Cover Ass'y	47377						
Lower Cover Ass'y	40076						
Cover Retainer Clip	P6818A						
Tape Lifter Ass'y	40074						
Pressure Brush Ass'y	47278						
Pressure Roller	6255						
Pressure Roller Cap	6196						
Pressure Roller Shaft	6254						
Pressure Roller Plastic Washer	6252						
Pressure Roller Screw	2269						
Speed Shift Knob	1583						
Cue Lever Handle	1728						
White Lens Cap	2636						
Red Lens Cap	2638						
Green Lens Cap	2637						
Front Panel	7509						
Front Panel Extrusion	2568						
Transport Chassis Bottom	7511						
Transport Chassis Top	7510						
Power Resistor Chassis	7512						
Power Resistor Heat Shield	7524						
Speed Reducer Rear Panel	40072						
AC 2-Wire Cord	1387						
AC 3-Wire Cord	2321						
8 X 3/8 Slotted Hex Chassis Screw	2708						
10-32 X 5/8 Oval Head Panel Screw	2120						
Nylon Panel Washer	2119						
P.C. Board for Power-Reel Switch	7583						
P.C. Board for Control Switch	7787						
P.C. Board for Mother Board	7586						
P.C. Board for Power Supply	7582						
White Toggle Cap	2613						

HEAD ASSEMBLIES (Includes all Cables, Guides, Photocell Ass'y, Etc.)

MODEL	CROWN Part No.	MODEL	CROWN Part No.
SX811	40145	CX824-P2	40156
SX812	40146	CX844 & CI844	40157
SX822	40147	SP811	40158
SX822-P4	40148	SP812	40159
SX824	40149	SP822	40160
SX824-P2	40150	SP822-P4	40161
CX811	40151	SP824	40162
CX812	40152	SP824-P2	40163
CX822	40153	SP844	40164
CX822-P4	40154	SX824-P4 chan.	
CX824	40155	CX824-P4 chan.	40401

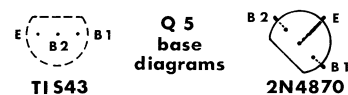
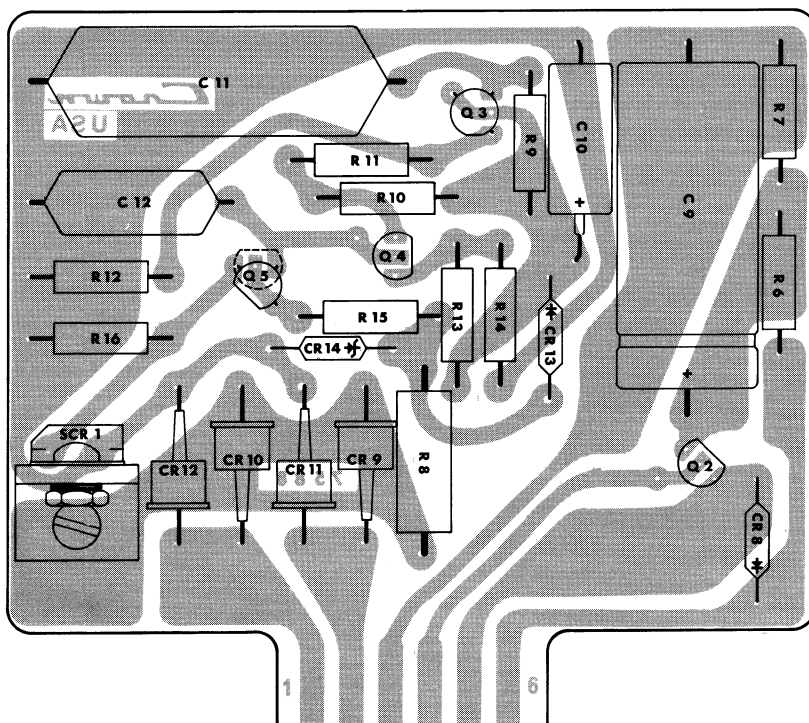
HEAD ASSEMBLY HARDWARE

	CROWN Part No.
Base Plate Ass'y (includes guides & goal posts)	47312
Tape Guide	6695
Triangular Headmount Plate	6706
NOTE: THIS PLATE IS USED FOR ALL RECORD AND PLAY HEADS, ALSO, 2T. AND FULL TRACK ERASE.	
Erase Head Bracket (¼ T. stereo and half track mono)	7854
Erase Head Bracket (4 channel)	7853
Neoprene Blocks	1818
Flat Head Socket Screw (use for 6704, 6705, 6706)	1887
Head Mount Clip	2175
Heavy Spacer Washer	1349
Thin Spacer Washer	1297
No. 6 Star Washer	1823
6-32 Hex Nut	1889
Photo Cell Ass'y	40077
Photo Cell Lucite Rod	7613



HT-1 PARTS LIST

Schematic Ref.	CROWN Part No.	Description	Notes
CAPACITORS			
C9	1679	225 mfd, 30V. Elec.	
C10	1678A	5mfd, 70V. Elec.	
C11	3008	1 mfd, 100V. Mylar	
C12	2938	.1 mfd, 200V. Mylar	
RECTIFIERS			
CR8, CR9, CR10, CR11, CR12	2851	IN4003	also use SM-220
CR13	2801	IN914	
CR14	2103	IN967	18V. Zener
SCR-1	2540	C106B32	SCR (GE)
RESISTORS			
R6	1059	3.9 K, 1/2w	
R7, R13	1036	2.2 K, 1/2w	
R8	2555	1 K, 2w	
R9	1032	820 K, 1/2w	
R10	1064	15 K, 1/2w	
R11	1035	10 K, 1/2w	
R12, R14	2082	22 K, 1/2w	
R15	2351	470 ohm, 1/2w	
R16	1007	100 ohm, 1/2w	
TRANSISTORS			
Q2, Q4	2982	TZ-581 Sprague	Selected for 60V. BVceo
Q3	2962	TZ-81 Sprague	Selected for 35V. BVceo
Q5	2784	2N4870	Formerly TI S43



(Bottom Views)

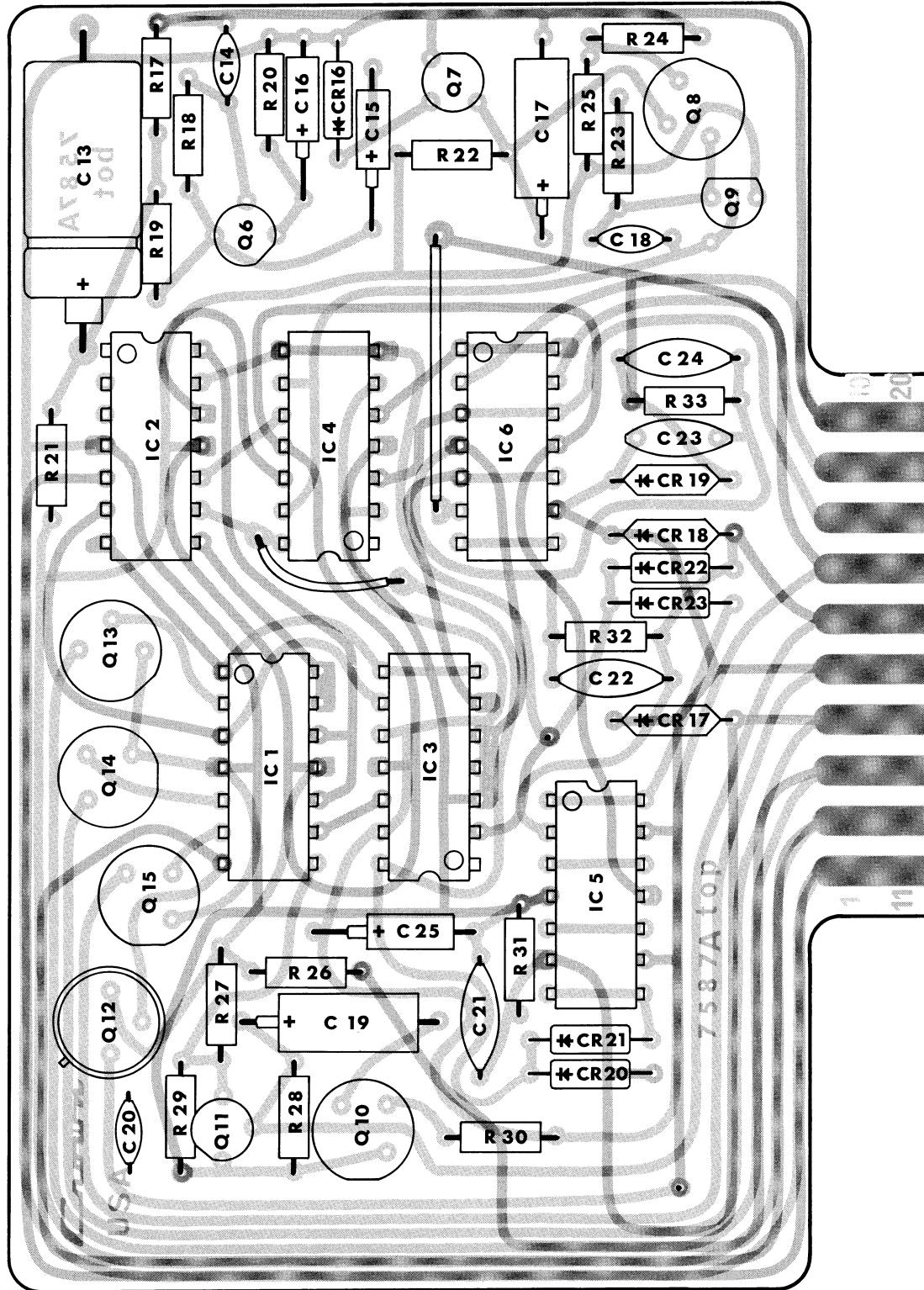
HT - 1 HI-TORQUE CKT. ASSY.

L-1 LOGIC BOARD PARTS LIST

Schematic Ref.	CROWN Part No.	Description	Notes
CAPACITORS			
C13	1635	100 mfd/12V	ELEC
C14, C18, C20	2599	.05 mfd/12V	DISC
C15, C16, C23	3020	1 mfd/60V	TANTALUM
C17, C19	1914	27 mfd/10V	TANTALUM
C21, C22, C24, C25	3021	4 mfd/25V	TANTALUM
CIRCUIT BOARD	7587A	L-1	P-C
INTEGRATED CIRCUITS			
IC1	2624	MC789 P	Motorola
IC2, IC5, IC6	2622	MC724 P	Motorola
IC3, IC4	2623	MC725 P	Motorola
RECTIFIERS			
CR16, CR20, CR21, CR22, CR23	2437A	IN270	
CR17, CR18, CR19	2801	IN914	
RESISTORS			
R17, R27, R29	2630	3.9 K, 1/4w	
R18	2634	2.7 M, 1/4w	
R19, R31, R32, R33	2633	18 K, 1/4w	
R20	2629	3.3 K, 1/4w	
R21	2626	470 ohm, 1/4w	
R22	2632	15 K, 1/4w	
R23, R28, R30, R35	2631	10 K, 1/4w	
R24, R26	2627	1 K, 1/4w	
R25	2628	2.2 K, 1/4w	
TRANSISTORS			
Q6, Q7, Q11	2962	TZ-81 Sprague	(Selected for BVceo 35V)
Q8, Q10, Q13, Q14, Q15	2961	2N3859A Sprague	
Q9	2982	TZ-581 Sprague	(Selected for BVceo 60V)
Q12	2721	2N1304 T-I	

L - 1 COMPUTER LOGIC CKT.

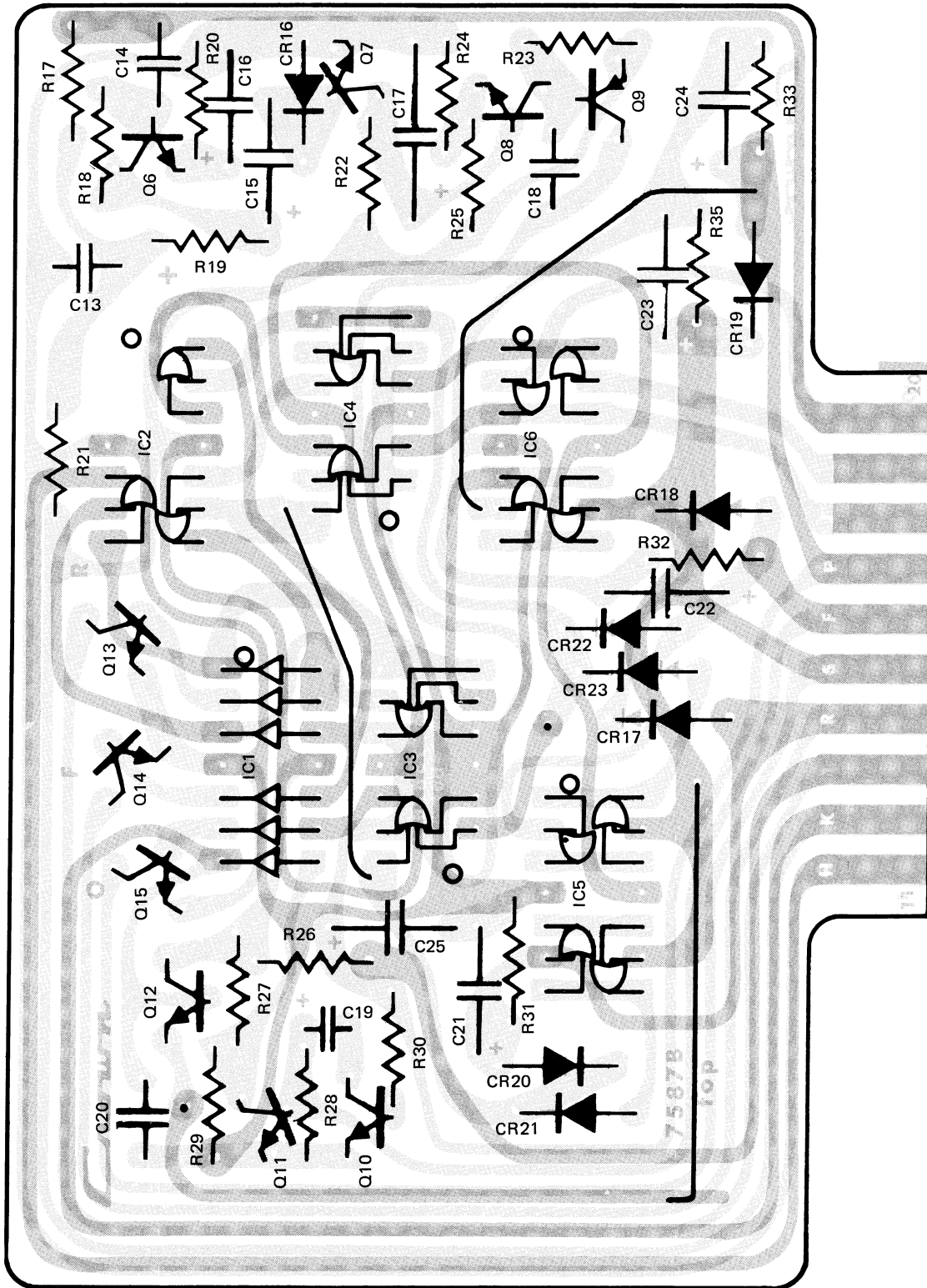
Parts and Location



L-2 LOGIC BOARD PARTS LIST

Schematic Ref.	CROWN Part No.	Description	Notes
CAPACITORS			
C13, C25	3169	100 mfd/6V	ELEC
C14, C18, C20	2599	.05 mfd/12V	DISC
C15, C16, C23	3020	1 mfd/60V	TANTALUM
C17	3023	27 mfd/15V	TANTALUM
C19	3022	22 mfd/6V	ELEC
C21, C22, C24	3021	4 mfd/25V	TANTALUM
CIRCUIT BOARD	7587B	L-2	P-C
INTEGRATED CIRCUITS			
IC1	2624	MC789 P	Motorola
IC2, IC5, IC6	2622	MC724 P	Motorola
IC3, IC4	2623	MC725 P	Motorola
RECTIFIERS			
CR16, CR20, CR21, CR22, CR23	2437A	IN270	
CR17, CR18, CR19	2801	IN914	
RESISTORS			
R17, R27, R29	2630	3.9 K, 1/4w	
R18	2634	2.7 M, 1/4w	
R19, R31, R32, R33	2633	18 K, 1/4w	
R20	2629	3.3 K, 1/4w	
R21	2626	470 ohm, 1/4w	
R22	2632	15K, 1/4w	
R23, R28, R30, R35	2631	10 K, 1/4w	
R24, R26	2627	1 K, 1/4w	
R25	2628	2.2 K, 1/4w	
TRANSISTORS			
Q6, Q7, Q11	2962	TZ-81 Sprague	(Selected for BVceo 35V)
Q8, Q10, Q13, Q14, Q15	2961	2N3859A Sprague	
Q9	2982	TZ-581 Sprague (or 2N5383)	(Selected for BVceo 60V)
Q12	2721	2N1304 T-I	

L - 2 COMPUTER LOGIC CKT.



State of Machine	T. U. Motor B2	P. O. Motor B3	Solenoid K4	+50 Supply	+24 Supply	+4 Supply
STANDBY	+6VDC	+16.5VDC	0	+55VDC	+29VDC	+4.2VDC
PLAY (LG Reel)	112VAC ^{at start} 80VAC	100VAC ^{at start} 71VAC	54VDC ^{at start} 34.5VDC	+56VDC	+28.5VDC	+4.2VDC
PLAY (SM Reel)	78VAC ^{at start} 55VAC	69VAC ^{at start} 49VAC	54VDC ^{at start} 34.5VDC	+56VDC	+28.5VDC	+4.2VDC
Hi RWD Brk	+52VDC	+13VDC	0	+52VDC	+27.5VDC	+4.2VDC
Hi FWD Brk	+13VDC	+52VDC	0	+52VDC	+27.5VDC	+4.2VDC
RWD	37VAC	117VAC	0	+59VDC	+27.5VDC	+4.2VDC
FWD	117VAC	37VAC	0	+59VDC	+27.5VDC	+4.2VDC
Jockeying	117VAC	117VAC	0	+59VDC	+27VDC	+4.2VDC

Test Conditions:

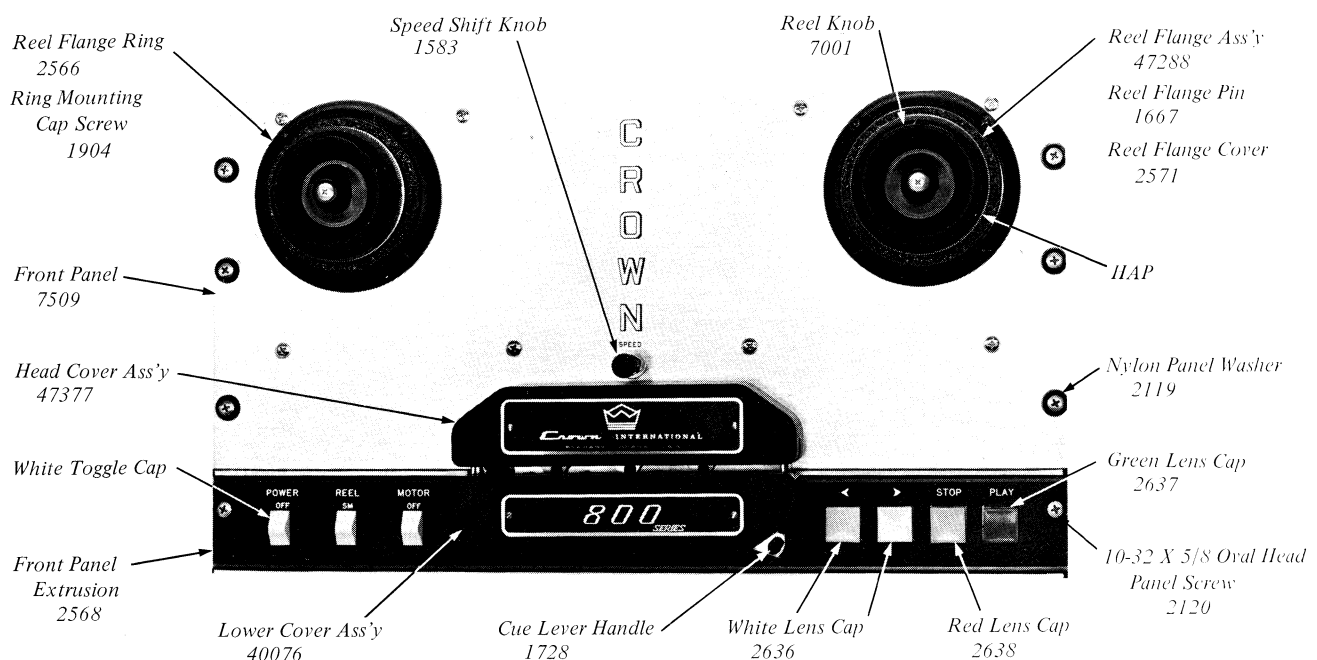
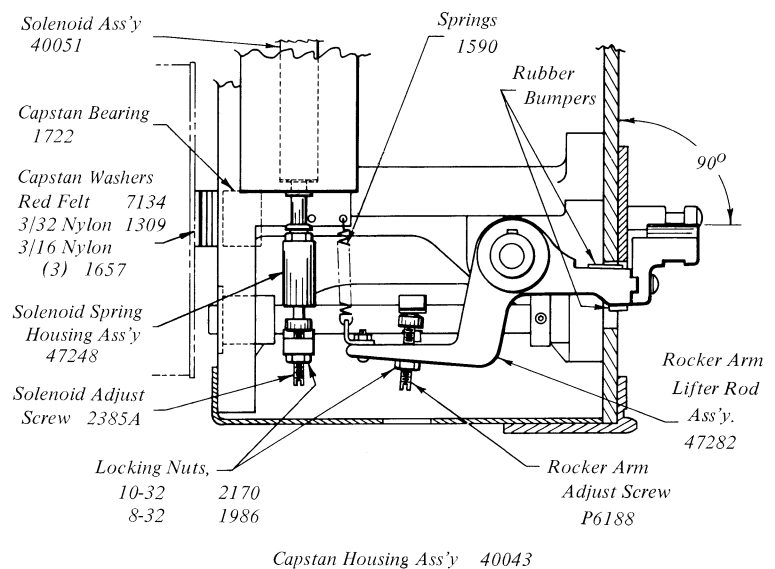
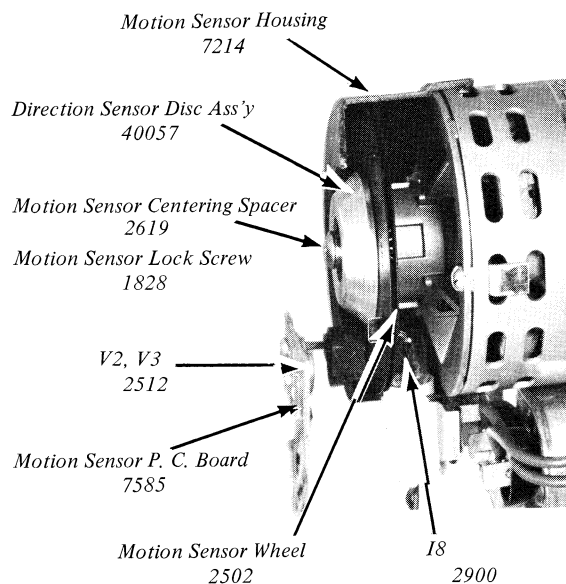
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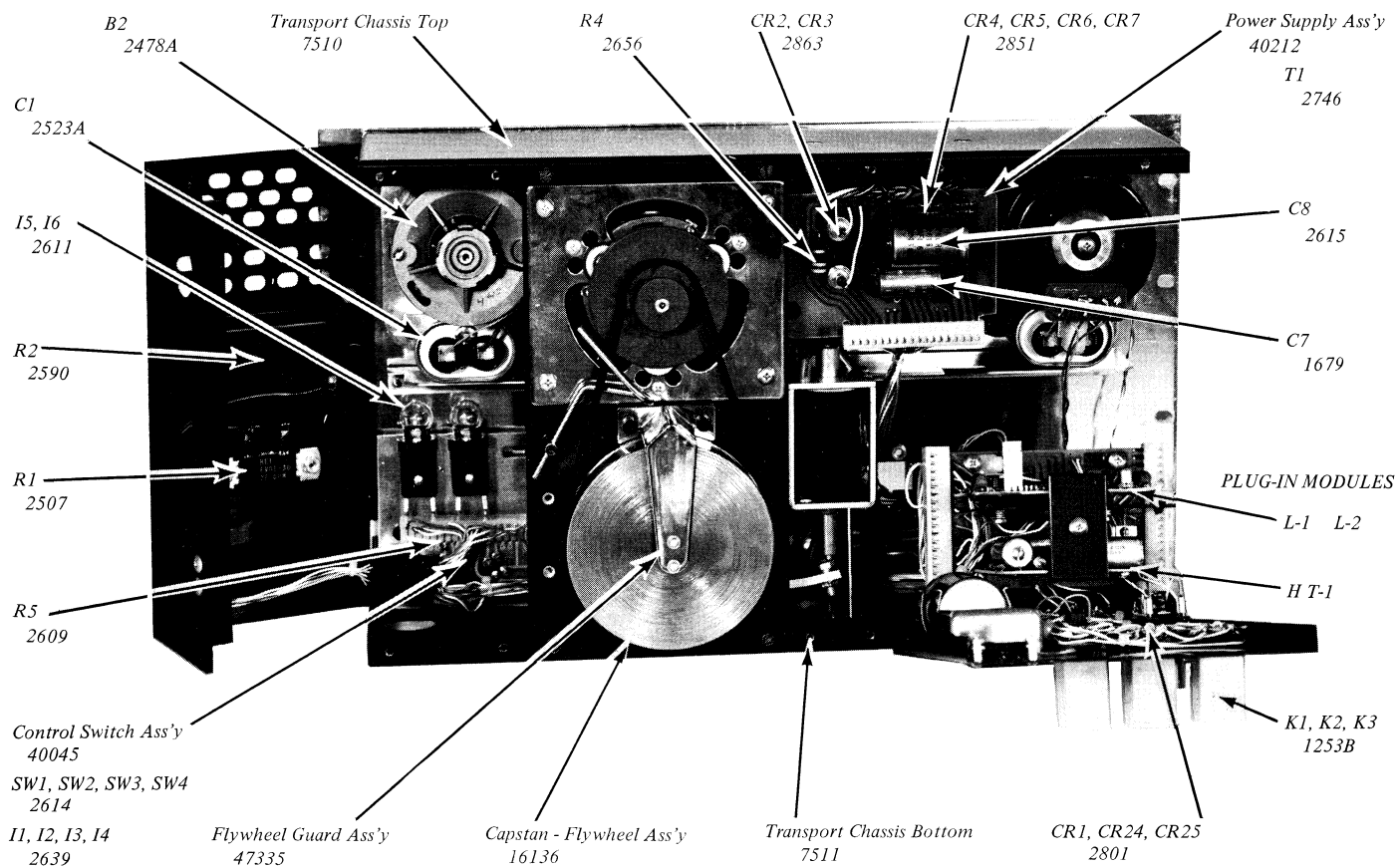
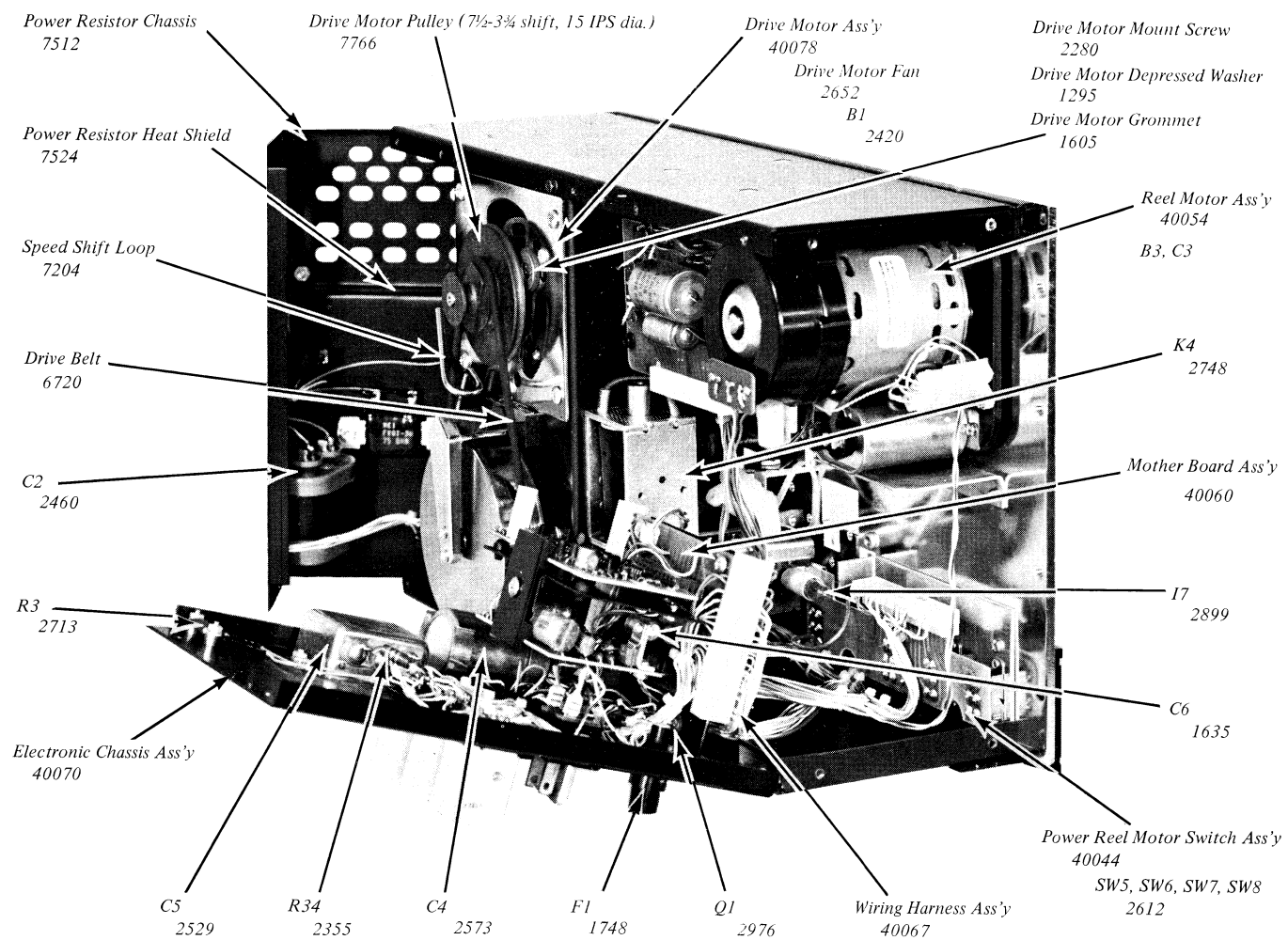
Reels unloaded and free

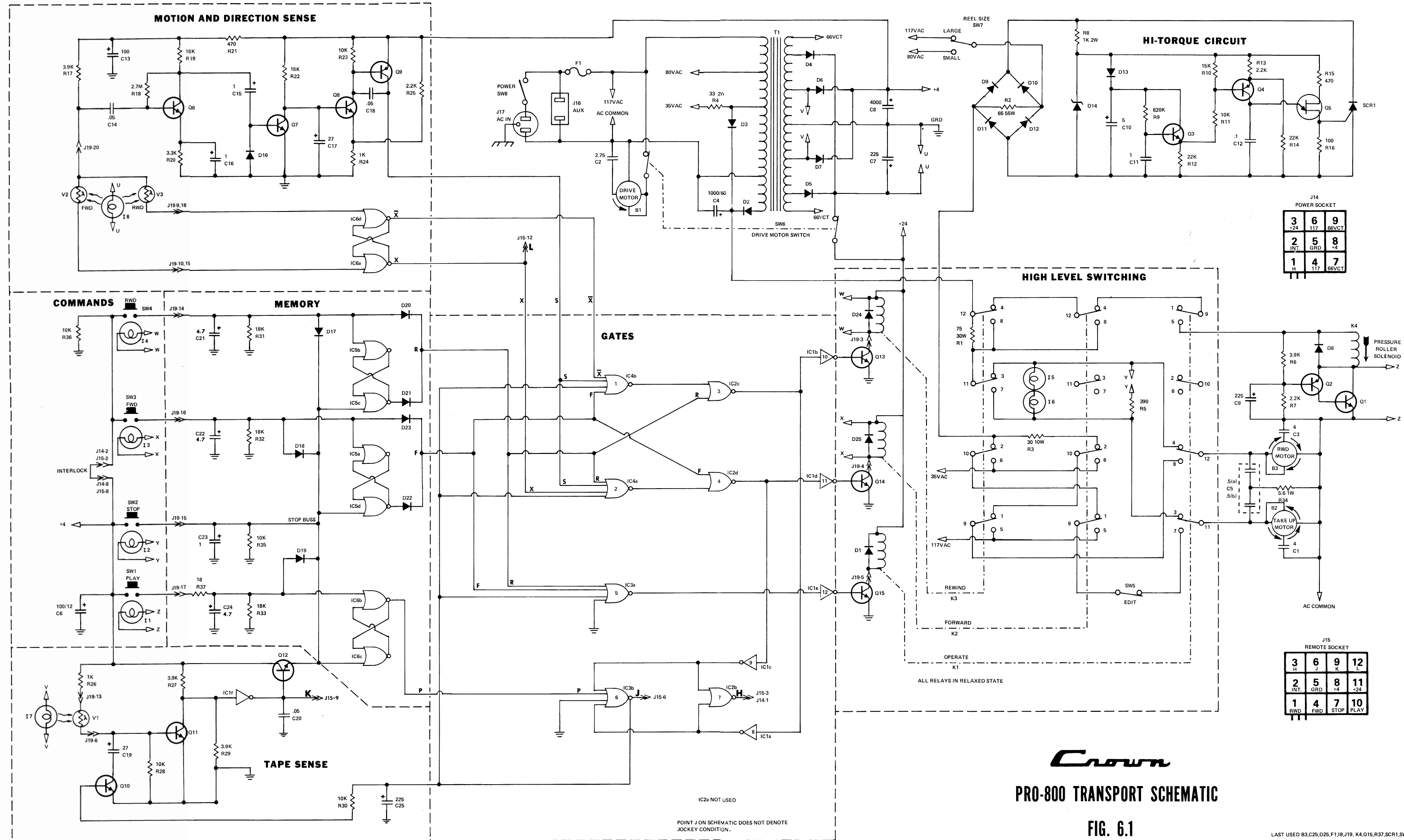
No accessories being powered

Meter - 20,000 Ω /volt VOM

VOLTAGE CHART







Crown
PRO-800 TRANSPORT SCHEMATIC
FIG. 6.1

LAST USED B3,C25,D25,F1,I8,J19, K4,Q15,R37,SW8,T1,V3.

