



SERVICE MANUAL

6240

STEREO CASSETTE DECK



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SPECIFICATION

Tape speed	4.75cm/sec
Wow and flutter (JIS Weighted)	
Playback	0.08%
Pressure roller force	300 ~ 500g
Play torque	35 ~ 75g/cm
F.F. torque	70 ~ 160g/cm
Rew torque	70 ~ 160g/cm
F.F. time (C-60)	105 sec
Rew time (C-60)	105 sec
Input sens. and impedance	
Line	40mV/8.2kΩ
Frequency response	
(Dolby level – 25dB Dolby NR off)	
Normal tape	35 ~ 17,000Hz $\pm \frac{2}{3}$ dB
CrO ₂ tape	35 ~ 18,000Hz $\pm \frac{2}{3}$ dB
Signal to noise ratio	
CCIR/ARM weighted 400Hz to Dolby level	
Dolby C Normal	69dB
CrO ₂ ·METAL	71dB
Dolby B Normal	60dB
CrO ₂ ·METAL	61dB
Dolby off Normal	50dB
CrO ₂ ·METAL	52dB

Erase effect	
with band pass filter 1kHz	
Input 0VU + 10dB	70dB
Separation	
with band pass filter 1kHz	
Input 1kHz Dolby level	40dB
Cross talk	
with band pass filter 1kHz	
Input 1kHz 0VU + 10dB	70dB
Output level at Dolby level	
(MTT-150 play)	
RCA	505mV
Distortion	
(Normal Tape 1kHz at Dolby Level)	1.0%

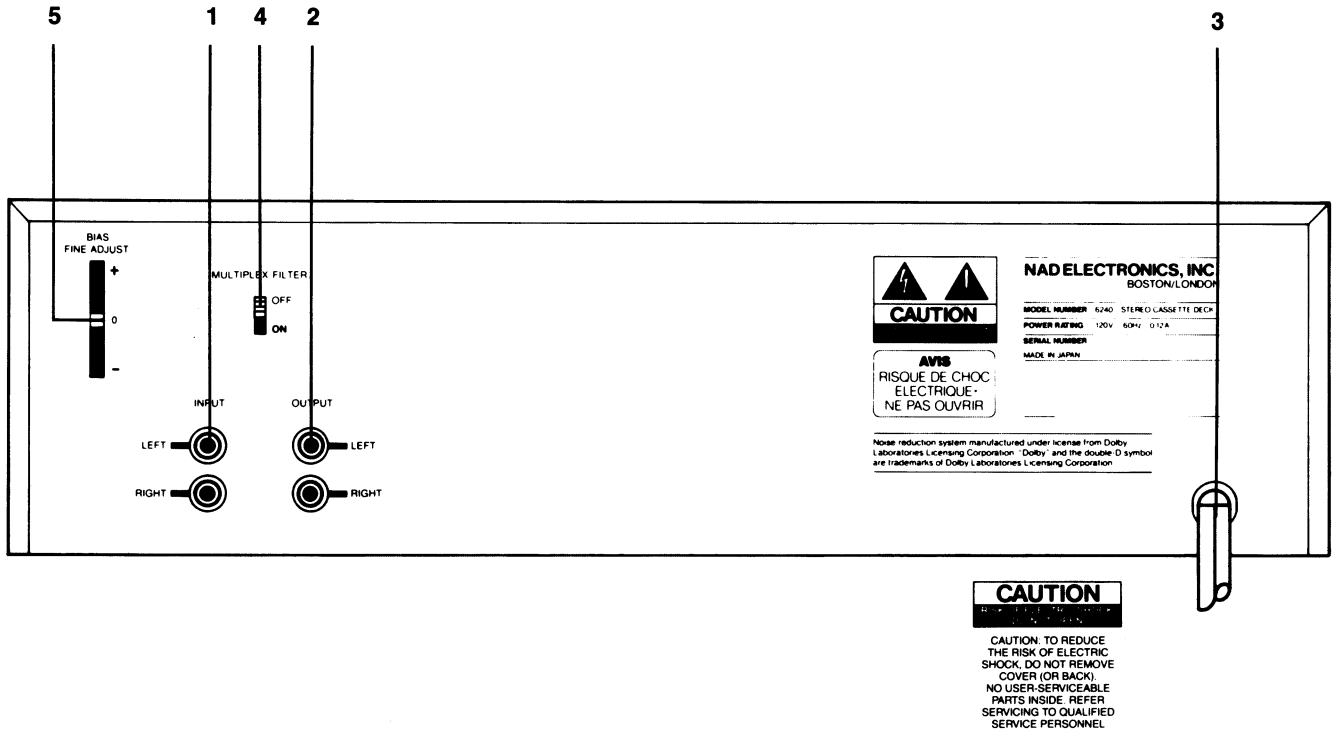
GENERAL

Maximum power consumption	15W
AC power supply	230V/50Hz
	115V/50Hz
	120V/60Hz
Weight and Dimensions (Approx.)	
Net weight	3.8kg
Dimension (W/H/D)	420/122/223mm
	(w/knobs & feet)

Specifications and design are subject to change without notice.

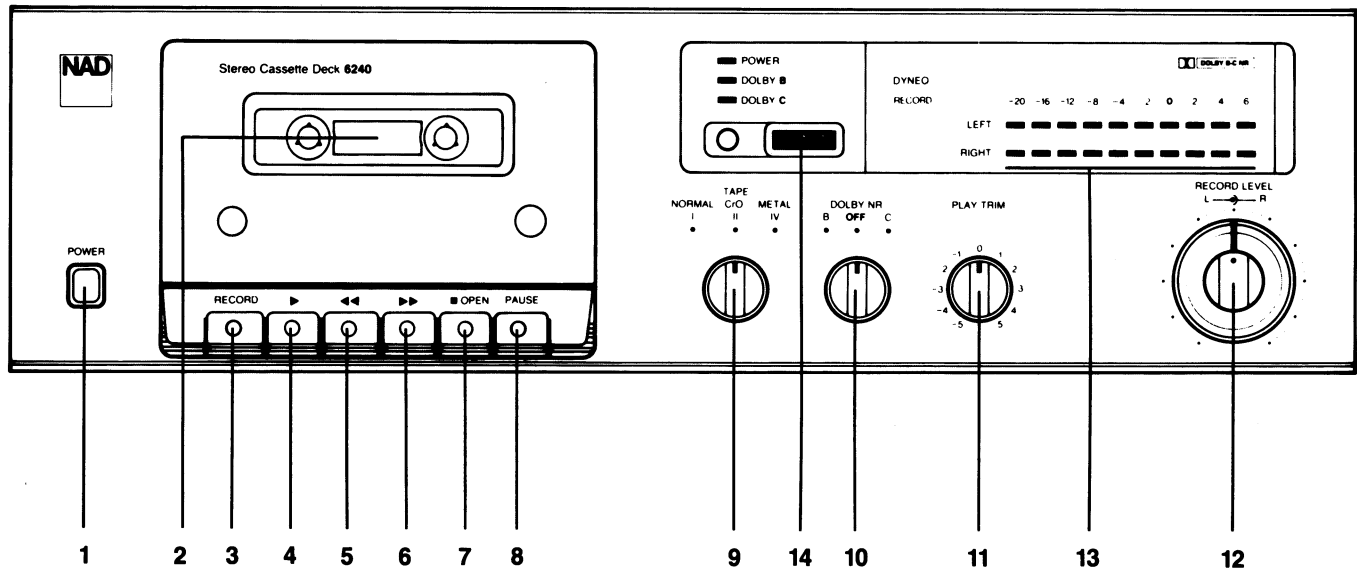
REAR PANEL

1. Input.
2. Output.
3. AC Power Cord.
4. MPX Filter.
5. Bias Fine Adjust.



FRONT PANEL

- | | |
|--------------------------|------------------------------|
| 1. Power. | 8. Pause. |
| 2. Cassette Compartment. | 9. Tape Selector. |
| 3. Record. | 10. Dolby NR. |
| 4. Play. | 11. Play Trim. |
| 5. Rewind. | 12. Recording Level. |
| 6. Fast Forward. | 13. Recording Level Display. |
| 7. Stop/Open. | 14. Tape Counter. |



ALIGNMENT METHOD

IMPORTANT

The tape path (heads, tape guides, capstan, pinch roller) should be cleaned and degaussed before alignment.

This tape recorder is designed to work well with a variety of tapes, however, maximum performance will be obtained with recommended tapes or similar tape formulations.

Recommended tapes	For North America	For Europe-DIN
Type I	Maxell UDS-I	Maxell UD-I, BASF TP18 no, R723DG
Type II	Maxell XL-II	Maxell XL-II, Teac MTT-5561
Type IV	Maxell MX	Maxell MX, Maxell MX 422

All adjustments done with Dolby NR OFF, MPX filter (on back panel) OFF and BIAS FINE ADJUST (on rear panel) in center position.

DOLBY NR level 200 nWb/m = 245 mV RMS on testpoints MC201-3 (L) and MC201-1 (R) on Dolby NR PCB; approximately 505 mV at line outputs.

1. TAPE SPEED

Connect one output to Wow and Flutter Meter or Frequency Counter, Play speed test tape TEAC MTT-111 = 3000 Hz or TEAC MTT-211 = 3150 Hz and adjust semifixed resistor accessible through hole in motorcasing, for correct reading on Wow and Flutter Meter or Frequency Counter.

Tolerance: $\pm 1\%$

2. AZIMUTH

Connect VTVM's and/or Oscilloscope to outputs. Set tape selector to normal and start playing Azimuth tape TEAC MTT-113 or MTT-114. Rotate azimuth screw for maximum output and/or maximum and in phase on Oscilloscope. Reseal adjustment screw with nail polish or similar (do not use glue).

3. PLAYBACK EQ

THIS ADJUSTMENT IS NOT NEEDED UNLESS THE HEAD HAS BEEN REPLACED OR REPAIR HAS BEEN DONE IN HEADAMP CIRCUIT.

Play level/azimuth tape TEAC MTT-256 and adjust SVR 101 (L) and SVR 102 (R) for identical output at 315/6300 Hz (MTT-255) or 250/6300 Hz (MTT-256).

Tolerance: ± 0.5 dB

4. PLAYBACK HIGH FREQUENCY EQ

THIS ADJUSTMENT SHOULD BE DONE ONLY WHEN HEAD HAS BEEN REPLACED.

Play frequency response tape TEAC MTT-256 or MTT-256U and check playback level at 14 kHz. Adjust by disconnecting C 103 and/or C 105 (L) and C 104 and/or C 106 (R) if 14 kHz is too high and connecting C 103 and/or C 105 (L) and C 104 and/or C 106 (R) if 14 kHz is too low. Leave same component values in both channels.

Tolerance: +1 dB -0.5 dB

5. PLAYBACK LEVEL

Connect VTVM to testpoints. Play Dolby NR level tape TEAC MTT-150 and adjust SVR 103 (L) and SVR 104 (R) for 245 mV RMS at testpoint MC 201-3 (L) and MC 201-1 (R) on Dolby PCB.

Tolerance: ± 2.5 mV RMS

Output should be approximately 505 mV RMS.

6. METER LEVEL

Play Dolby NR level tape MTT-150 and adjust SVR 601 (L) and SVR 602 (R) so that 0 dB LED's just turn on.

7. BIAS TRAP

Insert a blank type I tape and engage record and pause mode. Turn record level all the way down and set tape selector to type IV position. Connect VTVM's and/or oscilloscope probe to testpoint MC 303-2 (L) and adjust F 301 for minimum. Connect probe to MC 303-1 and adjust F 302 for minimum.

Tolerance: Less than 300mV RMS

8. RECORD LEVEL

Set tape selector to type I tape. Connect audio oscillator to line inputs, turn record levels to maximum (clockwise). Adjust audio oscillator frequency to 400 Hz and output so that VTVM's read 30 - 40 mV. (Use a convenient reference point on the VTVM's).

Reset tape counter to 0 and release pause to start recording. Record for approximately 5 seconds, rewind to 0 on tape counter and play back while observing the VTVM's. The VTVM's should indicate the same level as when the tape was recorded. Adjust SVR 201 (L) and SVR 202 (R) if necessary and repeat the record/play procedure until the readings are the same.

Tolerance: ± 0.5 dB from record level. Less than 0.5 dB difference between channels.

9. BIAS ADJUST TYPE I TAPE (NORMAL)

Set audio generator to 1200 Hz without changing output level. Reset tape counter to 0 and start recording. After 5 seconds change audio generator frequency to 12000 Hz (do not stop the machine or change levels) and continue recording for another 5 seconds. Stop and rewind to 0 on tape counter. Play back while observing VTVM's. There should be no level difference between the 1200 Hz and the 12000 Hz tone when played back. If 12000 Hz is different in level for 1200 Hz, adjust SVR 401 (L) and SVR 402 (R) and repeat the record/play procedure until both frequencies play back at same level.

Tolerance: ± 0.5 dB

WARNING: Greater tolerance will grossly affect the Dolby NR tracking and especially the Dolby C tracking.

Record level (step 8) should be checked and if necessary adjusted.

10. PEAKING CIRCUIT TYPE I TAPE (NORMAL)

Adjust audio generator to 17 kHz while maintaining the same output level. Record and play back the 17 kHz tone and adjust SVR 301 (L) and SVR 302 (R) to the same level as the 1200 Hz signal.

Tolerance: ± 1 dB

WARNING: If the R/P head is worn, the tape may not have adequate contact with the head, resulting in severe drop outs. A worn head will make this adjustment very difficult or impossible. DO NOT try to adjust the worn R/P head. Leave SVR 301 and SVR 302 in the factory preset condition, or if they have already been adjusted, readjust them to their approximate midposition.

11. FREQUENCY RESPONSE TYPE II TAPE (CrO₂)

Insert a type II tape and set selector to type II position. Adjust audio generator to 1200 Hz and 12000 Hz and repeat process described in step 9 using SVR 403 (L+R) to adjust both channel simultaneously. After 1200 Hz and 12000 Hz are adjusted properly, set audio generator to 18000 Hz and repeat same process as described in step 10 while adjusting SVR 303 (L) and SVR 304 (R) to obtain correct reading.

12. FREQUENCY RESPONSE TYPE IV TAPE (METAL)

Insert a type IV tape and set selector to type IV position. Repeat procedure as in step 9 while adjusting SVR 404 (L+R) for correct 12000 Hz level in both channels. Set audio generator to 18 kHz and repeat process as in step 10 while adjusting SVR 305 (L) and SVR 306 (R) for correct 18 kHz record level.

13. DYNEQ

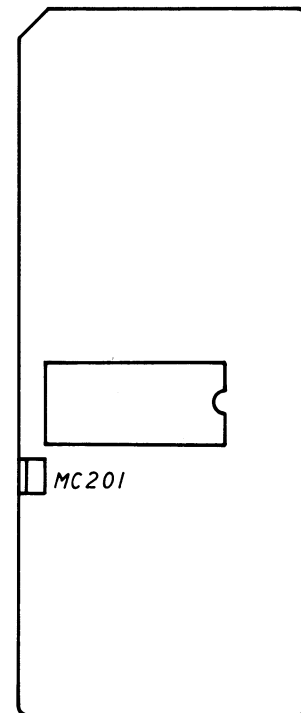
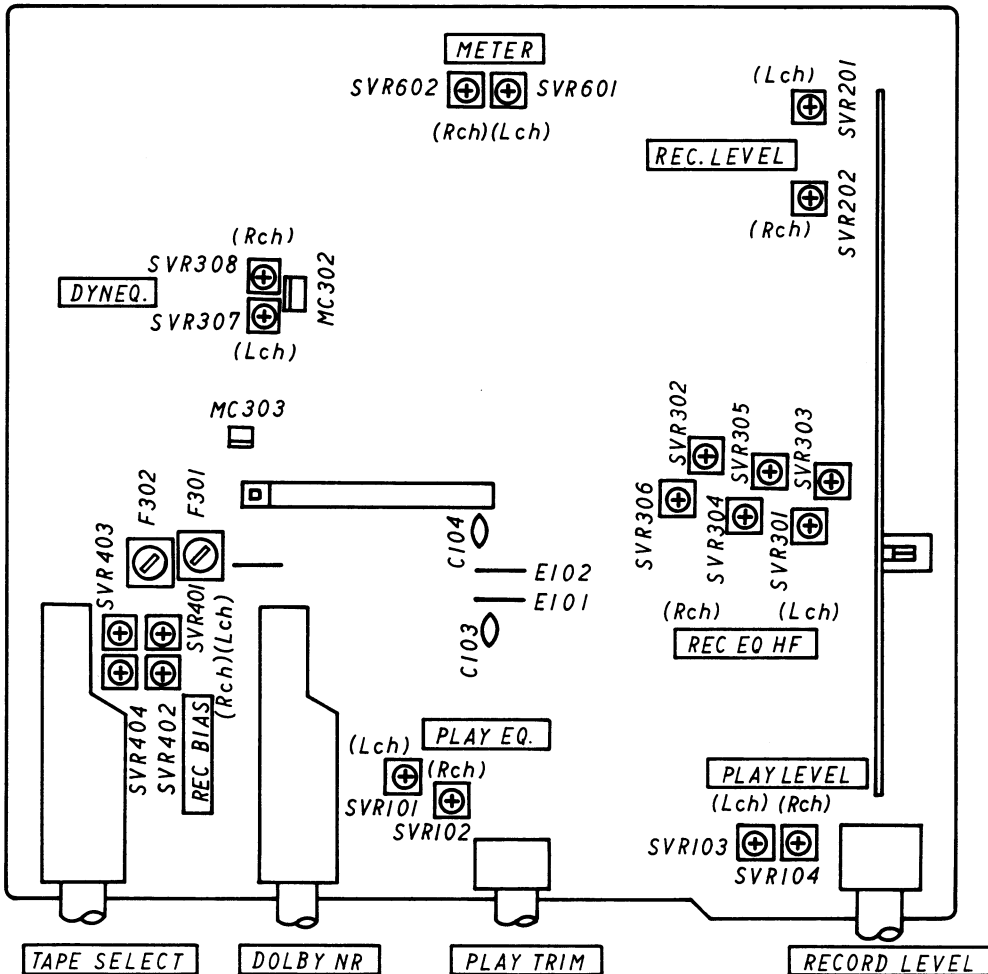
Engage record and pause mode. Adjust audio generator to 10000 Hz and output so that tape recorder output is -5 dB from Dolby NR level (approximately 280 mV RMS). Set tape selector to type I position and connect VTVM probe to test point MC 302-3 (L) (nearest rear panel) and adjust SVR 307 from fully clockwise position until the output on the probe decreases 1 dB.

Connect VTVM probe to test point MC 302-1 (R) (nearest front panel) and adjust SVR 308 from fully clockwise position until the output probe decreases 1 dB.

ALIGNMENT COMPONENTS LAYOUT

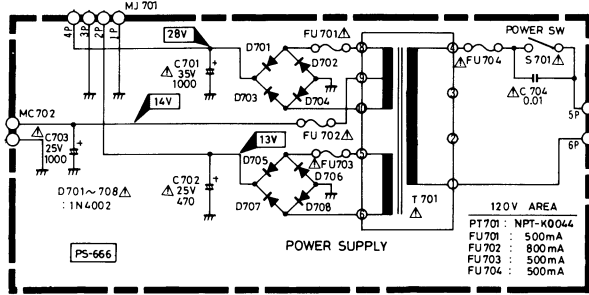
Main PC Board

Dolby NR Amp PC Board



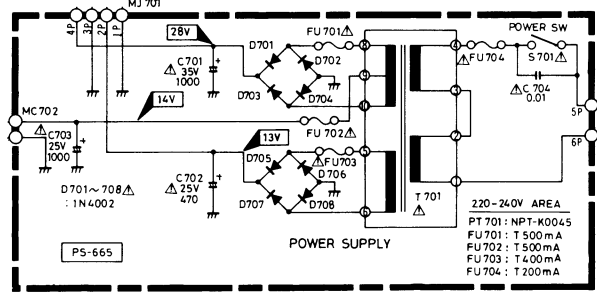
Power Supply Circuit (PS-666)

120V AREA
for CANADA, USA

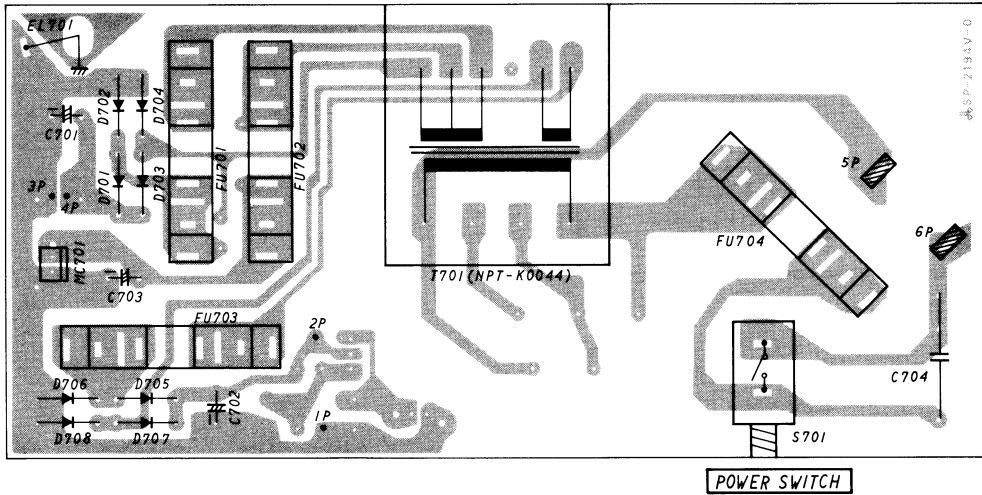


Power Supply Circuit (PS-665)

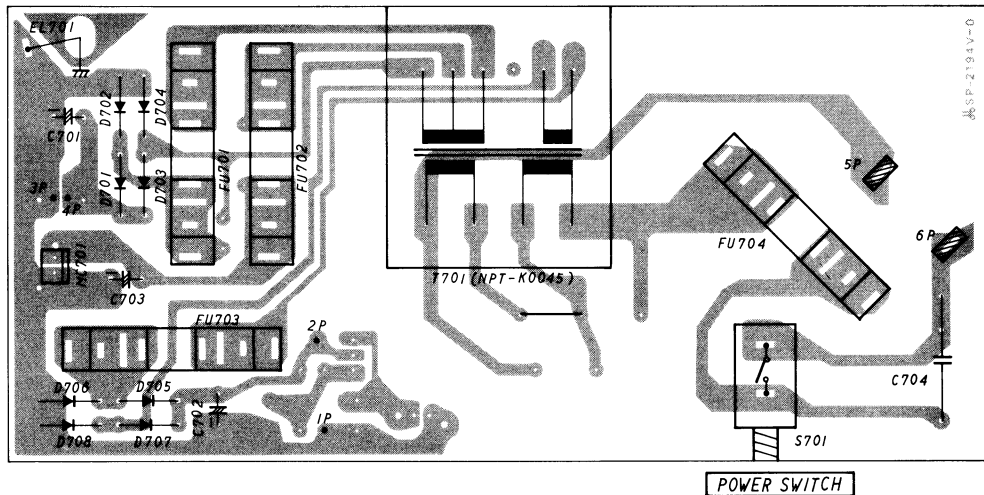
220~240V AREA
for EUROPE, AUSTRALIA



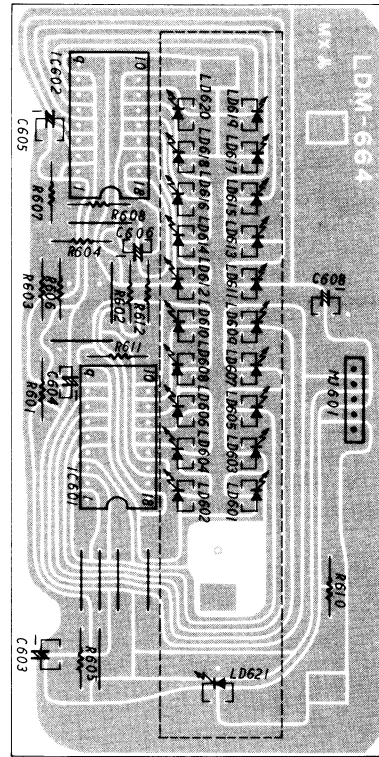
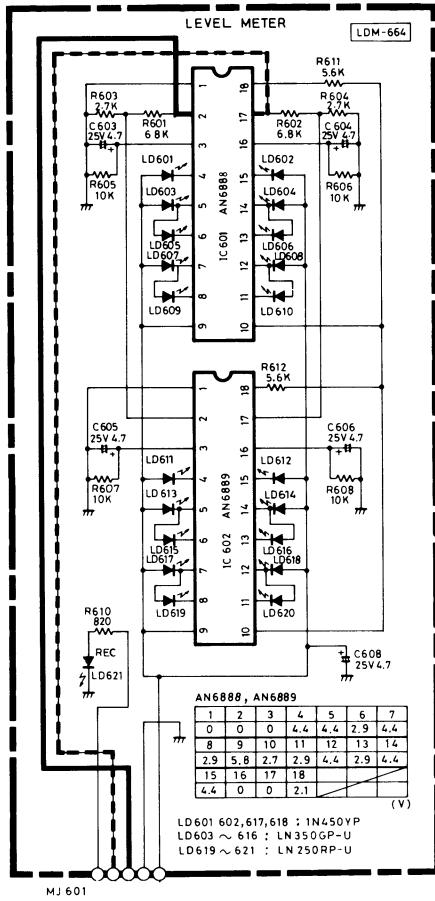
120V AREA
for CANADA, USA



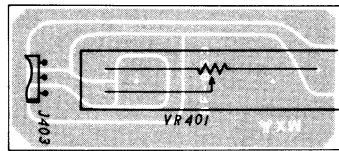
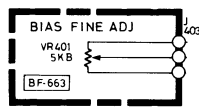
220~240V AREA
for EUROPE, AUSTRALIA



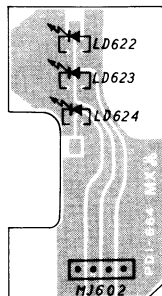
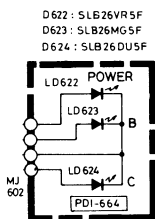
Level Meter Circuit (LDM-664)



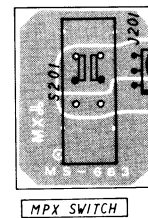
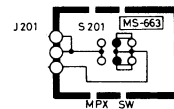
Bias Fine ADJ Circuit (BF-663)



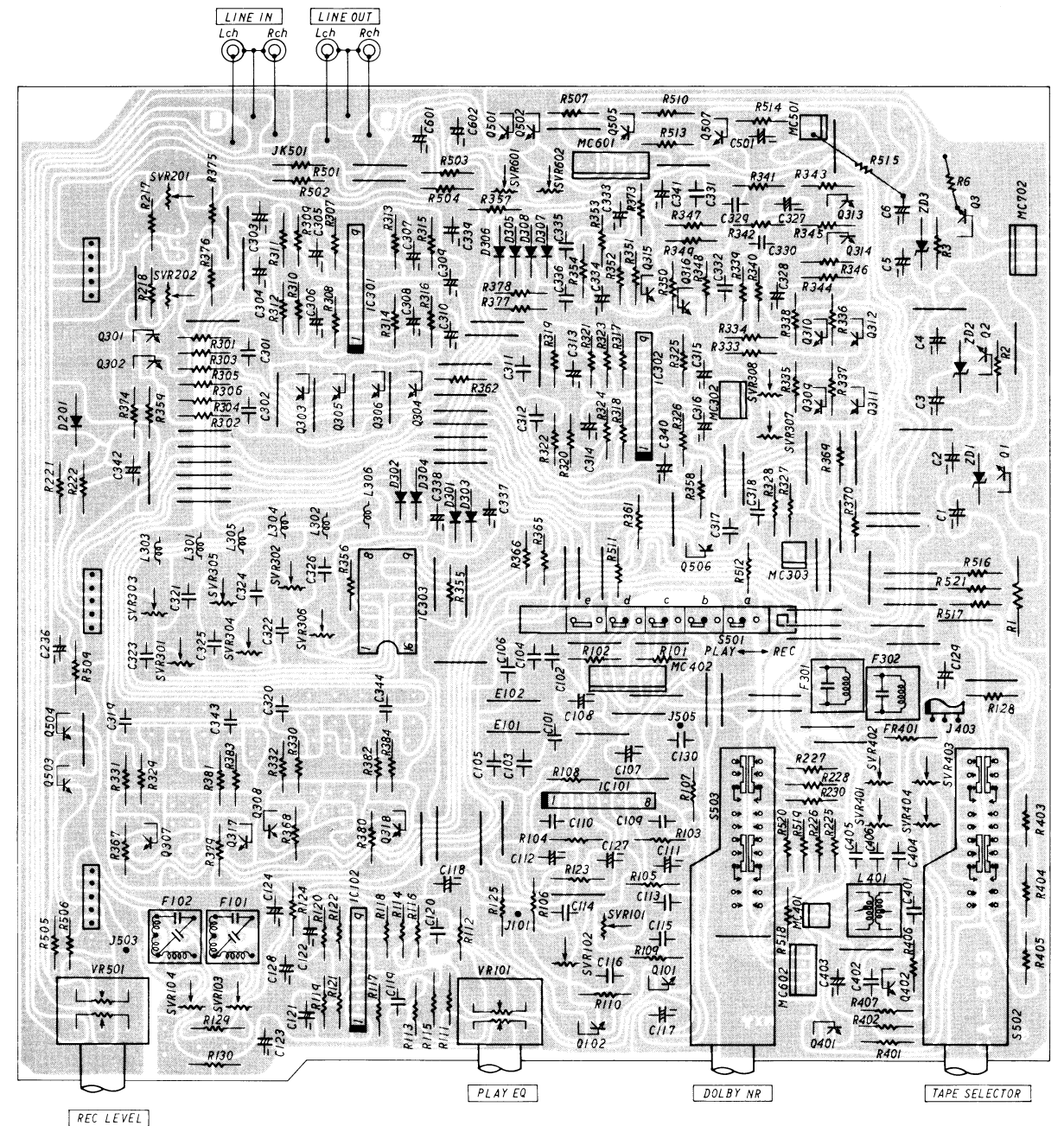
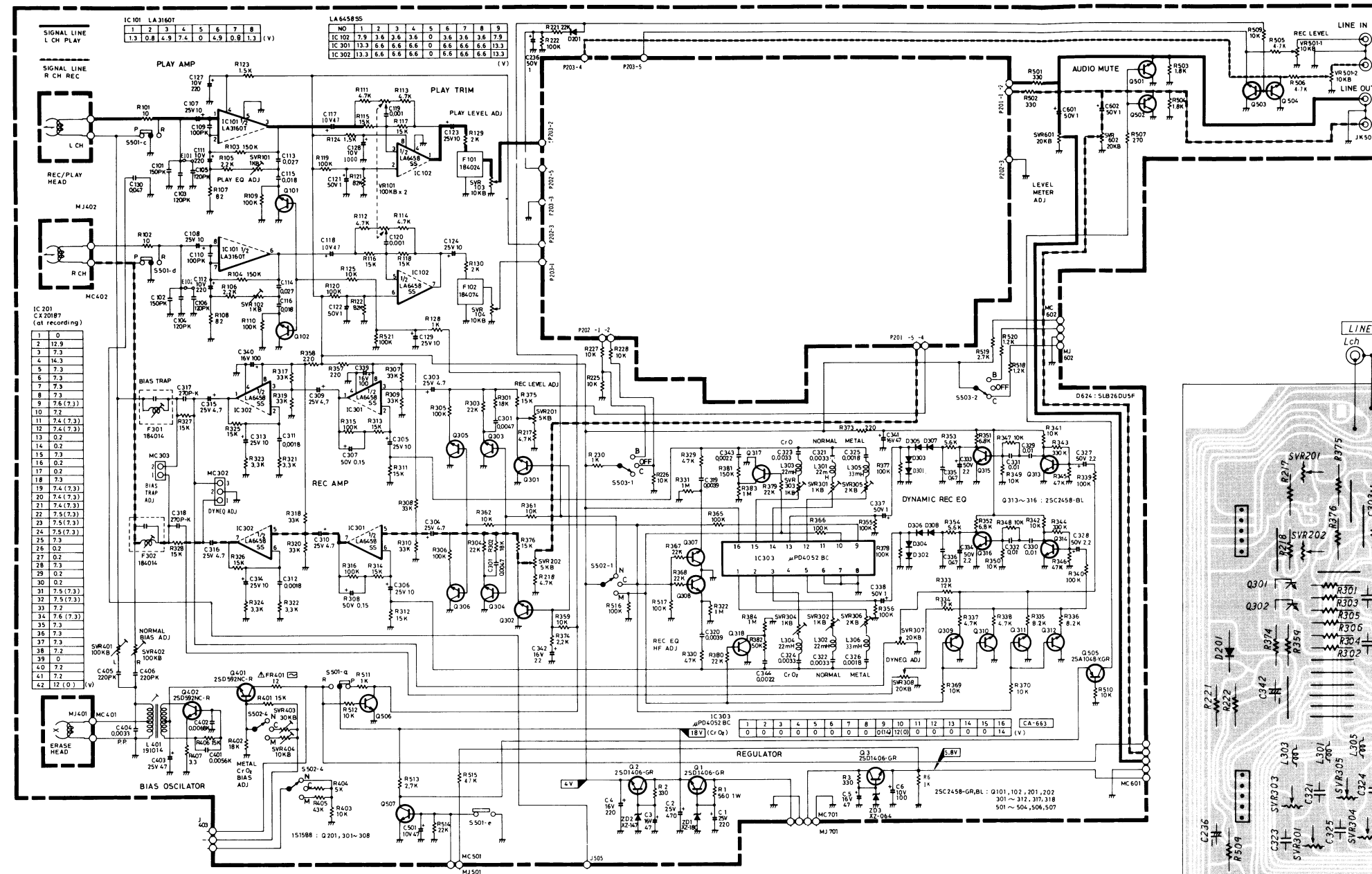
Dolby B, C and Power IND Circuit (PDI-664)



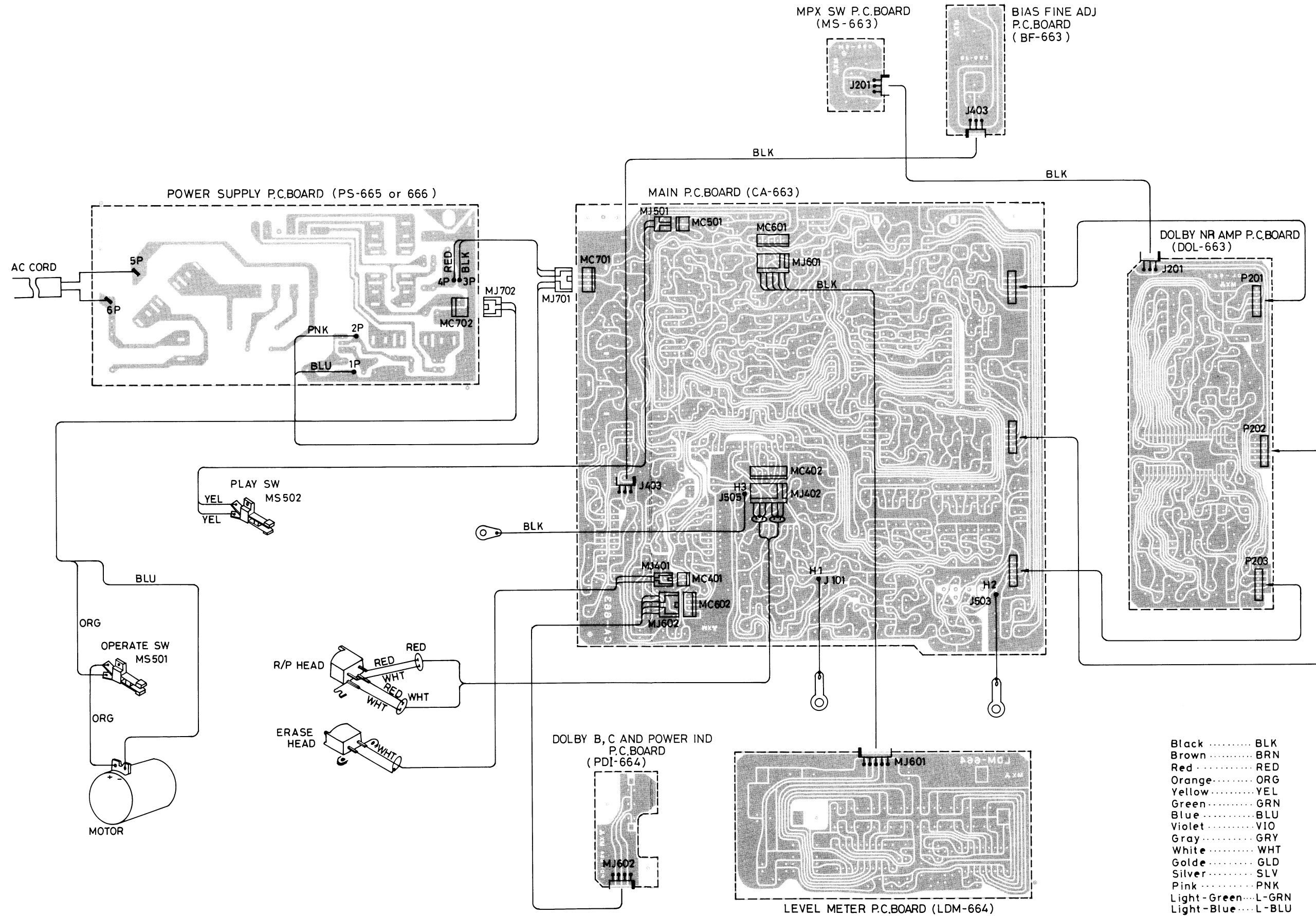
MPX SW Circuit (MS-663)



Main Circuit (CA-663)

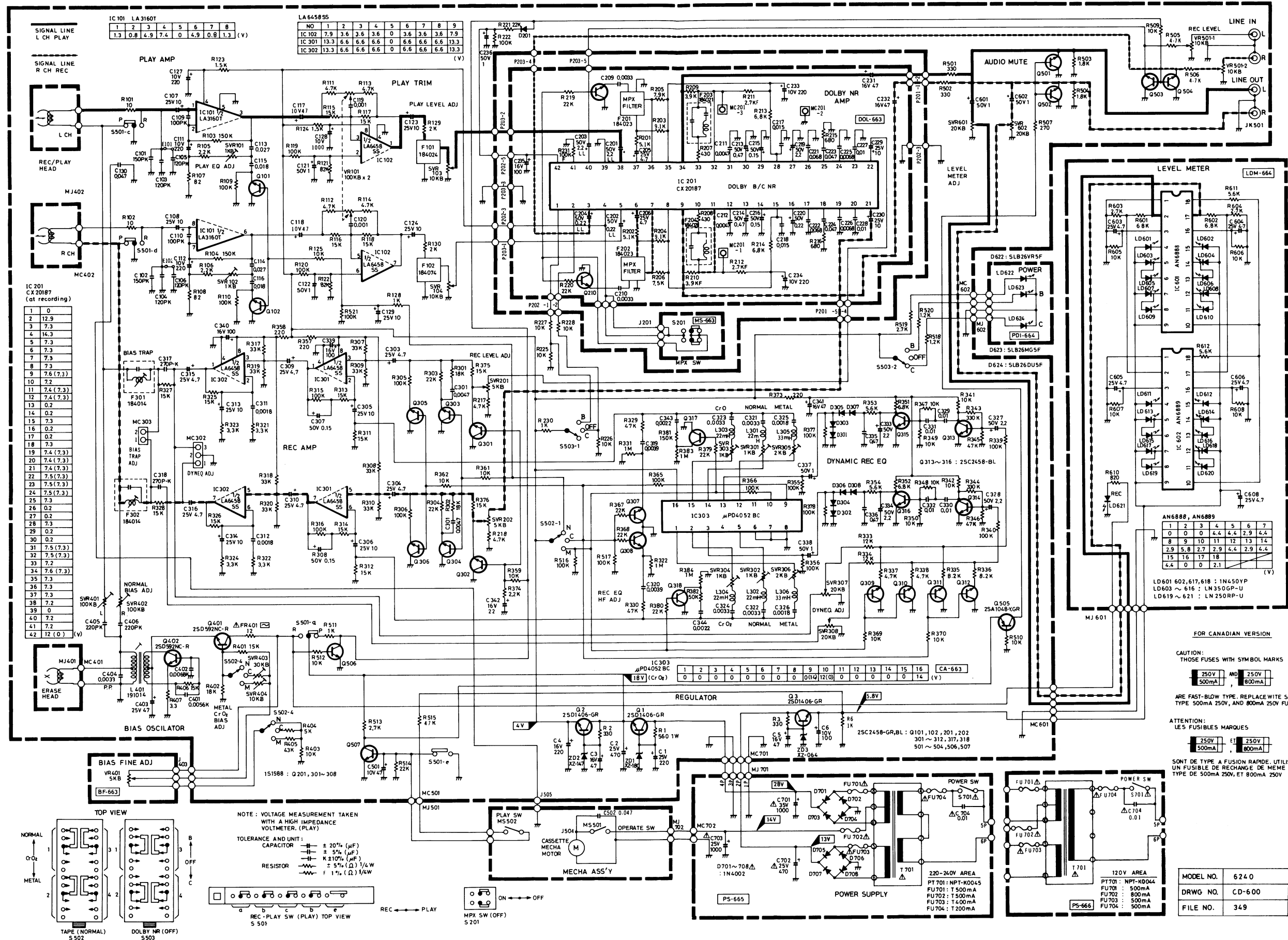


WIRING DIAGRAM (Component side)

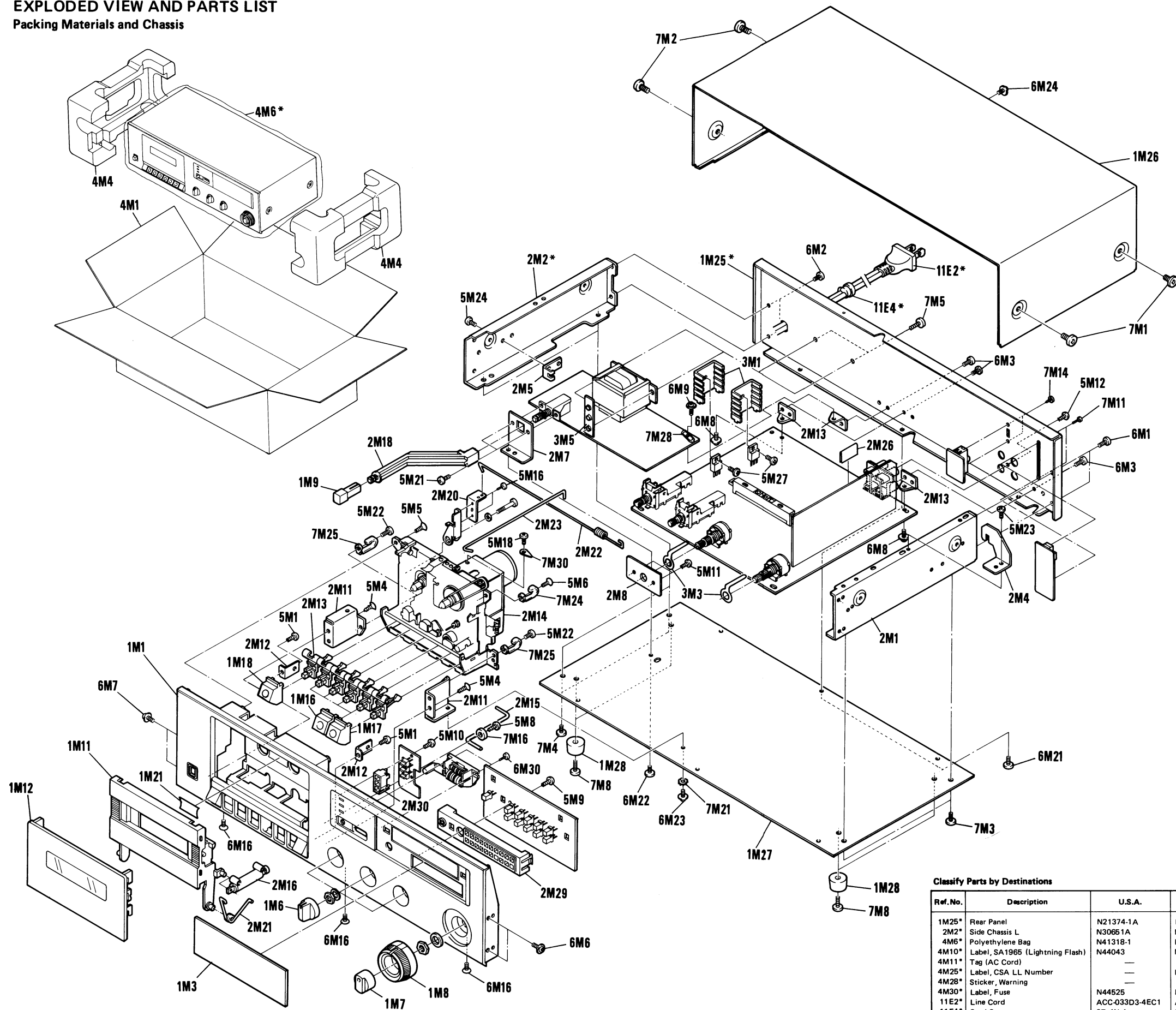


- Black BLK
- Brown BRN
- Red RED
- Orange ORG
- Yellow YEL
- Green GRN
- Blue BLU
- Violet VIO
- Gray GRY
- White WHT
- Gold GLD
- Silver SLV
- Pink PNK
- Light-Green L-GRN
- Light-Blue L-BLU

SCHEMATIC DIAGRAM



EXPLODED VIEW AND PARTS LIST
Packing Materials and Chassis

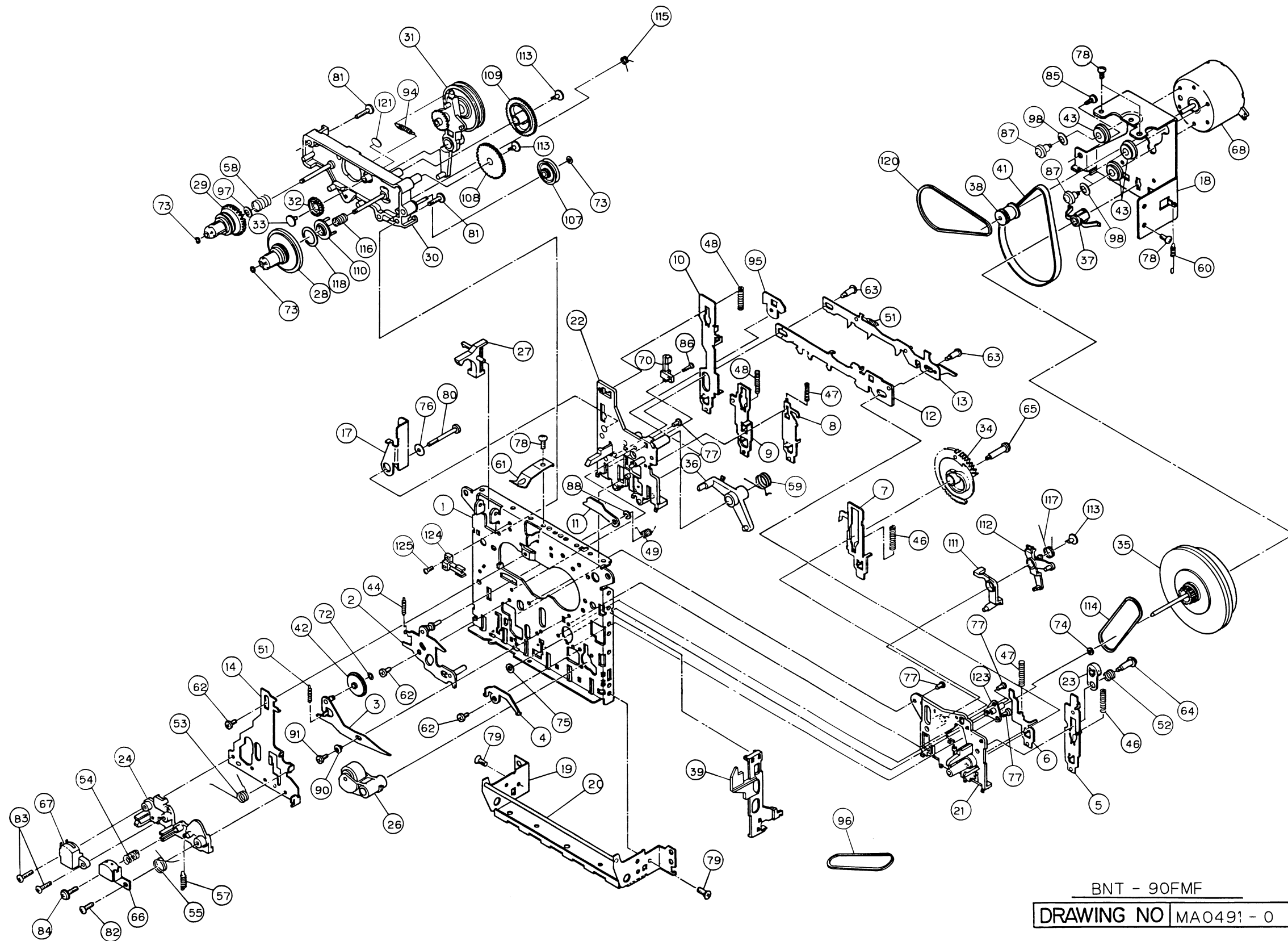


Ref. No.	Part No.	Description
1M1	BK1004	Front Panel
1M3	N44650B	Front Glass
1M6	62-2317-0-0	Control Knob
1M7	62-2318-0-0	Knob (Potentiometer)
1M8	62-2319-0-0	Knob (Potentiometer)
1M9	N44642-GRN	Push Button
1M11	N21024A-BK	Cassette Case
1M12	BK2006-2	Cassette Glass
1M16	BK4040-BK	Cassette Button (Black)
1M17	BK4040-GY	Cassette Button (Gray)
1M18	BK4040-R	Cassette Button (Red)
1M21	SN-241186-1	Cassette Mirror
1M25*		Rear Panel
1M26	BK2011	Cabinet
1M27	BK2013A	Bottom Board
1M28	NO.7104	Foot
2M1	N30627B	Side Chassis R
2M2*		Side Chassis L
2M4	N44639	Fittings (P.C.B.)
2M5	N42842	Shaft Guide
2M7	BK4056	Fittings (Switch)
2M8	BK4057	Fittings (Potentiometer)
2M9	N42635	Fittings (P.C.B.)
2M11	BK4067	Cassette Case Holder
2M12	BK4044	Mecha Holder
2M13	N30742B	Cassette Button Base
2M14	BK4055	Eject Lever
2M15	BK4063	Damper Pin
2M16	K-105-1	Air-Damper
2M18	N42470B	Switch Shaft
2M20	BK4061	Rec Holder
2M21	BK4062	Eject Spring
2M22	N44651	Rec Spring
2M23	BK4065	Rear Spring
2M26	N44652	Insulation Fiber
2M29	BK3012	Led Holder A
2M30	BK4054	Led Holder B
3M1	SH-1230	Heat Sink
3M3	N41622A	Lug (Tuning)
3M5	N42722	Fittings (P.T.)
3M30	N40848G	Shaft Tape
4M1	N21369	Shipping Carton
4M2	N21370	Shipping Carton
4M4	BK2014	Packing Pad
4M6*		Polyethylene Bag
4M7	N40487	Polyethylene Bag (Accessories)
4M9	SL.1024	Label, Serial No.
4M11*		Tag (AC Cord)
4M15	OM-600	Instruction Manual
4M20	BK4095	Protection Sheet (Cassette)
4M25*		Label, CSA LL Number
4M28*		Sticker, Warning
4M30*		Label, Fuse
5M1	TPM+30X06-Y	Tap Screw P, Round Head, Y
5M4-6	TPS+30X08-B	Tap Screw P, Flat Head, B
5M8-12	TPM+30X08-B	Tap Screw P, Round Head, B
5M16	TSB+20X05-Y	Tap Screw S, Bind Head, Y
5M18	TSB+26X05-Y	Tap Screw S, Bind Head, Y
5M21-24	TSB+30X06-Y	Tap Screw S, Bind Head, Y
5M27	TSB+30X08-Y	Tap Screw S, Bind Head, Y
6M1-3	TSB+30X06-B	Tap Screw S, Bind Head, B
6M6-9	TSC+30X08-Y	Tap Screw S, Washer Faced, Y
6M16	TSS+30X08-B	Tap Screw S, Flat Head, B
6M21-24	TSC+30X06-B	Tap Screw S, Washer Faced, B
6M30	TBB+26X08-Y	Tap Screw B, Bind Head, Y
7M1-5	TCB+40X08-B	Tap Screw C, Bind Head, B
7M8	TSP+40X10-Y	Tap Screw S, Pan Head, Y
7M11	SSP0+20X025-3B	Screw, Pan Head, B
7M14	SSP0+26X03-3B	Screw, Pan Head, B
7M16	2AWX1230-08-Y	Plain Washer, Y
7M21	2TWX30	Toothed Washer (B)
7M24, 25	VJR-3	Snake Lug
7M28	59BS1692	GND Lug
7M30	2AE-03	Lug
11E2*		Line Cord
11E4*		Cord Stopper
11E6	PC-046	Rea Pin Cord Ass'y
11E11	BNT-90FMF	Cassette Mechanism
11E15	MD4030-0	Counter Belt
11E17	SG10-105B1-839	Counter

Classify Parts by Destinations

Ref. No.	Description	U.S.A.	CANADA	U.K.	AUSTRALIA/N.Z.	SCANDINAVIA	W. GERMANY
1M25*	Rear Panel	N21374-1A	N21374-1A	N21374-2A	N21374-2A	N21374-3A	N21374-3A
2M2*	Side Chassis L	N30651A	N30651A	N30651A-1	N30651A-1	N30651A-1	N30651A-1
4M6*	Polyethylene Bag	N41318-1	N41318-1	N44660	N41318-1	N41318-1	N41318-1
4M10*	Label, SA1965 (Lightning Flash)	N44043	N44043	—	—	—	—
4M11*	Tag (AC Cord)	—	—	N41117	—	—	—
4M25*	Label, CSA LL Number	—	BK4066	—	—	—	—
4M28*	Sticker, Warning	—	—	N41994	—	—	—
4M30*	Label, Fuse	N44525	N44525	—	—	—	—
11E2*	Line Cord	ACC-033D3-4EC1	ACC-033D3-4EC1	ACC-013D3-4EC4	ACC-030D3-4EC1	ACC-005D3-4EC1	ACC-005D3-4EC1
11E4*	Cord Stopper	SR-4N-4	SR-4N-4	SR-5N-4	SR-4N-4	SR-4N-4	SR-4N-4

Cassette Mechanism



Ref. No.	Part No.	Description
1	MA1141	Chassis
2	MD1242	Shift Arm Ass'y
3	MD1173	Idler Arm (HT) Ass'y
4	MD1004	Pause Arm
5	MD1155	Pause Lever (B) Ass'y
6	MD1233	Stop Lever
7	MD1234	FF Lever (B)
8	MD1235	Rew Lever (B)
9	MD1236	Play Lever (B)
10	MD1238	Rec Lever (C)
11	MDS1108	Rec Lever (BH)
12	MC1140	Lock Cam (A)
13	MD1045	Lock Cam (B) Ass'y
14	MC1287	Head Chassis
15		
16		
17	MD1292	Rec Arm
18	MC1062	Motor Holder
19	MC1131	Button Holder (B)
20	MD2037	Button Shaft
21	MB3189	Lever Holder (A)
22	MB3190	Lever Holder (B)
23	MC3014	Pause Cam
24	MC3019	Head Base
25		
26	MD3072	P Roller Arm Ass'y
27	MC3021	Rec Sensor
28	MD3153	T Reel Ass'y
29	MD3154	S Reel Ass'y
30	MC3156	Reel Base Ass'y (B)
31	MD3036	Clutch Arm Ass'y
32	MD3015	FF Gear
33	KD3052	Bush
34	MC3083	Gear (C)
35	MD3061	Flywheel Ass'y (I)
36	MC3086	Lock Arm (H)
37	LC3014	Capstan Holder
38	MD2041	Motor Pulley
39	BK4055	Eject Lever
40		
41	MD4006	Drive Belt
42	MD4001	Play Idler
43	MD4002	Motor Cushion
44	MD6055	Shift Arm Spring
45		
46	MD6038	FF Lever Spring
47	MD6005	Rew Lever Spring
48	MD6003	Lever Spring
49	MD6019	Rec Lever Spring (B)
50		
51	MD6006	Cam Spring
52	MD6007	Pause Cam Spring
53	MD6010	Head Chassis Spring
54	KD6009	Head Spring
55	MD6060	P Roller Spring
56		
57	MD6001	Head Chassis Return Spring
58	MD6102	Back Tension Spring
59	MD6050	Lock Arm Spring
60	MD6040	Eject Lever Spring
61	MDS1097	Pack Spring
62	MD8002	Screw (A)
63	MD8003	Screw (B)
64	MD8004	Screw (C)
65	MD8005	Screw (D)
66	HAJCH4544A	Rec/Play Head
67	HAJAB3054A	Erase Head
68	MMI652 LK	DC Motor, Electronic Governor
69		
70	94019051	Leaf Switch, LSA-1119G
71		
72	8342112002	Polyslider W. (1.2 x 3.5 x 0.25t)
73	8342117009	Polyslider W. (1.7 x 3.5 x 0.25t)
74	8342121030	Polyslider W. (2.1 x 5.0 x 0.25t)
75	8340319002	Oil Stop W. (1.9 x 5.0 x 0.6t)
76	8233029754	Plain Washer (L), 2.6
77	8213112004	Tap Tite Screw, 2 x 4
78	8213112604	Tap Tite Screw, 2.6 x 4
79	8211312605	Flat Tap Tite Screw, 2.6 x 5
80	8213112622	Tap Tite Screw, 2.6 x 22
81	8213512608	Bind Tap Tite Screw, 2.8 x 8
82	8215512008	Binding Screw, 2 x 8
83	8215512085	Binding Screw, 2 x 8.5
84	8215812009	Washer Head Screw, 2 x 9
85	8214152606	Tapping Screw, 2.6 x 6
86	8214112605	Tapping Screw, 2.6 x 5
87	SD8511	Motor Screw
88	822002004	E Ring, 2
89		
90	MD2033	Collar
91	8213112005	Tap Tite Screw, 2 x 5
92		
93		
94	MD6035	Clutch Arm Spring
95	MD1061	Inter Lock Arm
96	MD4030	Counter Belt
97	8346240007	Reel Washer MD8038
98	MD1270	Washer (B)
99		
100		
101		
102		
103		
104		
105		
106		
107	MD3066	Auto Pulley
108	MD3065	Auto Gear
109	MD3044	Auto Cam Gear
110	MD3130	Auto Clutch
111	MD3043	Auto Arm (B)
112	MD3042	Auto Lock Arm
113	MD3047	Bush
114	MD4003	Auto Belt
115	MD6062	Auto Sensor Spring
116	MD6068	Auto Clutch Spring
117	MD6017	Auto Lock Arm Spring
118	8356709511	Auto Clutch Felt MD8009
119		
120	MD4008	FR Belt
121	8342356001	Lumiller Washer 5.6 x 0.188t
122		
123	MD5002	Housing Ass'y
124	94019010	Leaf Switch, LSA-1120YN
125	8213112006	Tap Tite Screw, 2 x 6

Ref. No.	Part No.	Description													
RESISTORS															
Resistors description • Fixed Resistors <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <table style="border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">K</td> <td style="border: 1px solid black; padding: 2px;">A</td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">5</td> <td style="border: 1px solid black; padding: 2px;">S</td> <td style="border: 1px solid black; padding: 2px;">T</td> <td style="border: 1px solid black; padding: 2px;">4</td> <td style="border: 1px solid black; padding: 2px;">7</td> <td style="border: 1px solid black; padding: 2px;">3</td> <td style="border: 1px solid black; padding: 2px;">J</td> <td style="border: 1px solid black; padding: 2px;">-</td> <td style="border: 1px solid black; padding: 2px;">L</td> <td style="border: 1px solid black; padding: 2px;">P</td> </tr> </table> </div> <div style="margin-top: 5px;"> <p>_____ Tolerance (%); _____ Value (Ω); _____ Wattage (W); _____ Type;</p> <p>D = ± 0.5, F = ± 1, G = ± 2, J = ± 5 2R2 = 2.2, 682 = 6.8k, 125 = 1.2M, 470 = 47, 473 = 47k 221 = 220, 394 = 390k 25S = 1/4, 50S or 50X = 1/2, -2W = 2 KA = Carbon, FR = Flame Proof, SA = Metal Oxide, RF = Fusible, MF = Metal Film</p> </div>			K	A	2	5	S	T	4	7	3	J	-	L	P
K	A	2	5	S	T	4	7	3	J	-	L	P			
R001	SA-1WT561J	Metal Oxide Resistor													
R002, 003	KA25ST331J	Carbon Resistor													
R006	KA25ST102J	Carbon Resistor													
R101, 102	KA25ST100J	Carbon Resistor													
R103, 104	KA25ST154J	Carbon Resistor													
R105, 106	KA25ST222J	Carbon Resistor													
R107, 108	KA25ST820J	Carbon Resistor													
R109, 110	KA25ST104J	Carbon Resistor													
R111~114	KA25ST472J	Carbon Resistor													
R115~118	KA25ST153J	Carbon Resistor													
R119, 120	KA25ST104J	Carbon Resistor													
R121, 122	KA25ST823J	Carbon Resistor													
R123, 124	KA25ST152J	Carbon Resistor													
R125	KA25ST103J	Carbon Resistor													
R128	KA25ST102J	Carbon Resistor													
R129, 130	KA25ST202J	Carbon Resistor													
R201, 202	KA25ST512J	Carbon Resistor													
R203, 204	KA25ST912J	Carbon Resistor													
R205, 206	KA25ST752J	Carbon Resistor													
R207, 208	KA25ST431J	Carbon Resistor													
R209, 210	MF25ST392F	Metal Film Resistor													
R211, 212	MF25ST272F	Metal Film Resistor													
R213, 214	KA25ST682J	Carbon Resistor													
R215, 216	KA25ST681J	Carbon Resistor													
R217, 218	KA25ST472J	Carbon Resistor													
R219~221	KA25ST223J	Carbon Resistor													
R222	KA25ST104J	Carbon Resistor													
R225~228	KA25ST103J	Carbon Resistor													
R229	KA25ST104J	Carbon Resistor													
R230	KA25ST102J	Carbon Resistor													
R231	MF25ST104F	Metal Film Resistor													
R301, 302	KA25ST183J	Carbon Resistor													
R303, 304	KA25ST223J	Carbon Resistor													
R305, 306	KA25ST104J	Carbon Resistor													
R307~310	KA25ST333J	Carbon Resistor													
R311~314	KA25ST153J	Carbon Resistor													
R315, 316	KA25ST104J	Carbon Resistor													
R317~320	KA25ST333J	Carbon Resistor													
R321~324	KA25ST332J	Carbon Resistor													
R325~328	KA25ST153J	Carbon Resistor													
R329, 330	KA25ST473J	Carbon Resistor													
R331, 332	KA25ST105J	Carbon Resistor													
R333, 334	KA25ST123J	Carbon Resistor													
R335, 336	KA25ST822J	Carbon Resistor													
R337, 338	KA25ST472J	Carbon Resistor													
R339, 340	KA25ST104J	Carbon Resistor													
R341, 342	KA25ST103J	Carbon Resistor													
R343, 344	KA25ST334J	Carbon Resistor													
R345, 346	KA25ST473J	Carbon Resistor													
R347~350	KA25ST103J	Carbon Resistor													
R351, 352	KA25ST682J	Carbon Resistor													
R353, 354	KA25ST562J	Carbon Resistor													
R355, 356	KA25ST104J	Carbon Resistor													
R357, 358	KA25ST221J	Carbon Resistor													
R359	KA25ST103J	Carbon Resistor													
R361, 362	KA25ST103J	Carbon Resistor													
R365, 366	KA25ST104J	Carbon Resistor													

Ref. No.	Part No.	Description
R367, 368	KA25ST223J	Carbon Resistor
R369, 370	KA25ST103J	Carbon Resistor
R373	KA25ST221J	Carbon Resistor
R374	KA25ST222J	Carbon Resistor
R375, 376	KA25ST153J	Carbon Resistor
R377, 378	KA25ST104J	Carbon Resistor
R379, 380	KA25ST223J	Carbon Resistor
R381, 382	KA25ST154J	Carbon Resistor
R383, 384	KA25ST105J	Carbon Resistor
R401	KA25ST153J	Carbon Resistor
R402	KA25ST183J	Carbon Resistor
R403	KA25ST103J	Carbon Resistor
R404	KA25ST153J	Carbon Resistor
R405	KA25ST433J	Carbon Resistor
R406	KA25ST153J	Carbon Resistor
R407	KA25ST3R3J	Carbon Resistor
R501, 502	KA25ST331J	Carbon Resistor
R503, 504	KA25ST182J	Carbon Resistor
R505, 506	KA25ST472J	Carbon Resistor
R507	KA25ST271J	Carbon Resistor
R509, 510	KA25ST103J	Carbon Resistor
R511	KA25ST102J	Carbon Resistor
R512	KA25ST103J	Carbon Resistor
R513	KA25ST272J	Carbon Resistor
R514	KA25ST223J	Carbon Resistor
R515	KA25ST473J	Carbon Resistor
R516, 517	KA25ST104J	Carbon Resistor
R518	KA25ST122J	Carbon Resistor
R519	KA25ST272J	Carbon Resistor
R520	KA25ST122J	Carbon Resistor
R521	KA25ST104J	Carbon Resistor
R601, 602	KA25ST682J	Carbon Resistor
R603, 604	KA25ST272J	Carbon Resistor
R605~608	KA25ST103J	Carbon Resistor
R610	KA25ST821J	Carbon Resistor
R611, 612	KA25ST562J	Carbon Resistor
Δ FR401	RF25SK120J	Fusible Resistor
VR101	EWGG1A300B15	Rotary Potentiometer
VR401	VSL30-502B11Z1	Slide Potentiometer
VR501	EWJ-S1AW19A14	Rotary Potentiometer
SVR101, 102	SVR-06T3B102	Semi-Variable
SVR103, 104	SVR-06T3B103	Semi-Variable
SVR201, 202	SVR-06T3B502	Semi-Variable
SVR301~304	SVR-06T3B102	Semi-Variable
SVR305, 306	SVR-06T3B202	Semi-Variable
SVR307, 308	SVR-06T3B203	Semi-Variable
SVR401, 402	SVR-06T3B104	Semi-Variable
SVR403	SVR-06T3B303	Semi-Variable
SVR404	SVR-06T3B103	Semi-Variable
SVR601, 602	SVR-06T3B203	Semi-Variable
COILS		
F101, 102	184024	Filter Block
F201, 202	184023	Filter Block
F203, 204	184021	Filter Block
F301, 302	184014	Filter Block
L301~304	RC875-223J	Inductor
L305, 306	RC875-333J	Inductor
L401	191014	Osc Coil
Δ T701	NPT-K0044	Power Transformer A, A1
Δ T701	NPT-K0045	Power Transformer B, B1, C, C1
SWITCHES		
S201	SW-5222174	Slide Switch
S501	ESD80640	Slide Switch
S502, 503	ESR-M143K15C	Rotary Slide Switch
Δ S701	ESB8215V	Power Switch
MISCELLANEOUS		
E101	IPS-1065	Jump Wire

A, USA
A1, CANADA

B, U.K
B1, AUSTRALIA/N.Z.

C, SCANDINAVIA
C1, W. GERMANY

Ref. No.	Part No.	Description
E102	IPS-1065	Jump Wire
E401	IPS-1065	Jump Wire
P201	IMSA-1068-05L	Mini Terminal Plate
P202	IMSA-1068-05D	Mini Terminal Plate
P203	IMSA-1068-05L	Mini Terminal Plate
△FU701	FU-5250145T	Fuse <u>A</u>
△FU701	FU-6250145T	Fuse <u>A1</u>
△FU701	FU-525017T	Fuse <u>B, B1, C, C1</u>
△FU702	FU-528014T	Fuse <u>A</u>
△FU702	FU-628014T	Fuse <u>A1</u>
△FU702	FU-525017T	Fuse <u>B, B1, C, C1</u>
△FU703	FU-525014T	Fuse <u>A</u>
△FU703	FU-625014T	Fuse <u>A1</u>
△FU703	FU-524017T	Fuse <u>B, B1, C, C1</u>
△FU704	FU-525014T	Fuse <u>A</u>
△FU704	FU-625014T	Fuse <u>A1</u>
△FU704	FU-522017T	Fuse <u>B, B1, C, C1</u>
JK501	YKC21-0018A	Rca Jack 4P
MC201	171825-3	Micro Plug
MC302	171825-3	Micro Plug
MC303	171825-2	Micro Plug
MC401	171825-2	Micro Plug
MC402	171825-6	Micro Plug
MC501	171825-2	Micro Plug
MC601	171825-5	Micro Plug
MC602	171825-4	Micro Plug
MC701	171825-2	Micro Plug
MC702	171825-4	Micro Plug
MJ401	MC02-491	Micro Socket Ass'y
MJ402	MC06-494	Micro Socket Ass'y
MJ501	MC02-490	Micro Socket Ass'y
MJ601	MC05-493	Micro Socket Ass'y
MJ602	MC04-492	Micro Socket Ass'y
MJ701	MC04-498	Micro Socket Ass'y
MJ702	MC02-489	Micro Socket Ass'y
4E20	5E-T05	Jump Wire
9E29	5E-T05	Jump Wire
10E13	BK-1	Cord Clamp
10E14	NO.5167	Cord Clamp
12E10	IPS-1041-4	Jump Wire
13E11	23165102-BB-C	Fuse Holder <u>A, B, B1, C, C1</u>
13E11	S-N5051	Fuse Holder <u>A1</u>
13E20	59BS1692	GND Lug
13E21	59BS4795	GND Lug
13E23	IPS-1041-4	Jump Wire

SERVICE MANUAL

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