

SERVICE MANUAL



SANYO

CASSETTE TAPE DECK

RD 5055

(AUSTRALIA)

CASS. DOOR - N.L.A.



T/UP & SUPPLY REELS - N.L.A.

VOL. POTS - N.L.A.

SPECIFICATIONS

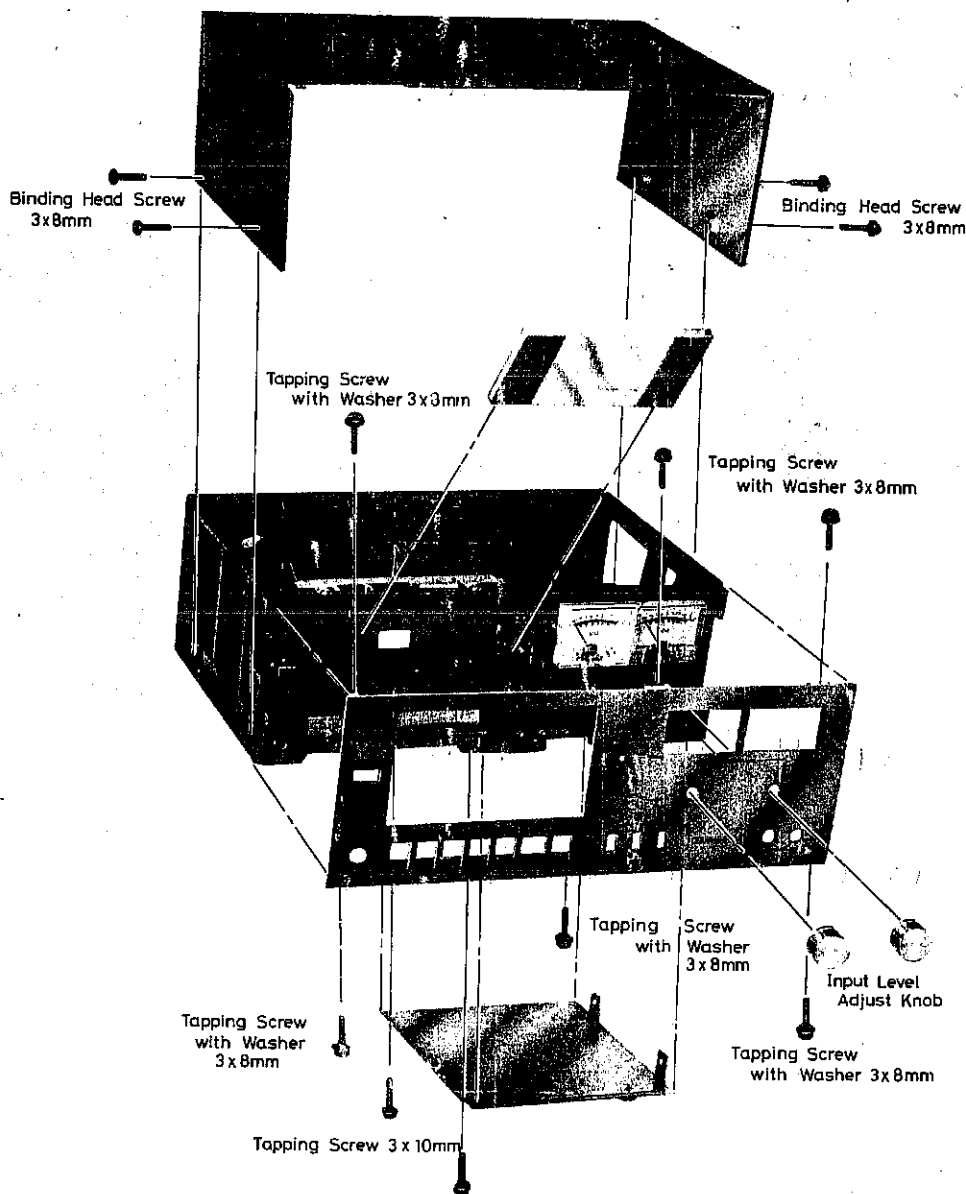
Tape	CrO tape and Normal tape	Input	MIC: 10k ohms (0.3mV)
Recording System	AC bias, 1/4 track stereo		REC/PLAY: 10k ohms (1mV)
Erasing system	AC erasing, 1/2 track		LINE IN: 60k ohms (70mV)
Tape speed	1-7/8 ips. (4.75 cm/sec.)	Output	REC/PLAY: 3k ohms (0.7V)
Recording time	60 min. (C-60 cassette tape)		LINE OUT: 3k ohms (0.7V)
Rewind & Fast forward time	90 sec. (C-60 cassette tape)		HEADPHONES: 8 ohms to 10k ohms (30mV)
Wow & Flutter	0.1% WRMS	Power source	AC: 240V
Frequency response	30 - 16,000 Hz (CrO tape)	Dimensions	15-3/16"(W) x 11-7/16"(D) x 6-1/8"(H) (400 x 290 x 156 mm)
	30 - 13,000 Hz (Normal tape)	Weight	Approx. 11 lbs. 6 ozs. (5 kg)
Signal to noise ratio	58 dB (Dolby switch ON) 50 dB (Dolby switch OFF)		

DISASSEMBLY OF CABINET & CHASSIS

Be sure to unplug the power cord before disassembling the cabinet and chassis of this unit. Then, go through the following steps:

1. Remove the four screws (binding head screw 3 x 8 mm), two on each side, and lift the top cover off the unit.
2. Turn the unit upside down and make it rest on the top. After removing the two screws (pan head tapping screw 3 x 10 mm), take off the bottom lid, sliding it forward.

3. Remove the control knobs (viz. Record level) located on the front panel.
 4. Remove the six screws (pan head tapping screw w/washer 3 x 8 mm) fastening the front panel, which can then be taken off.
- * The cassette lid is separable from the unit. Take it off when cleaning the tape heads.



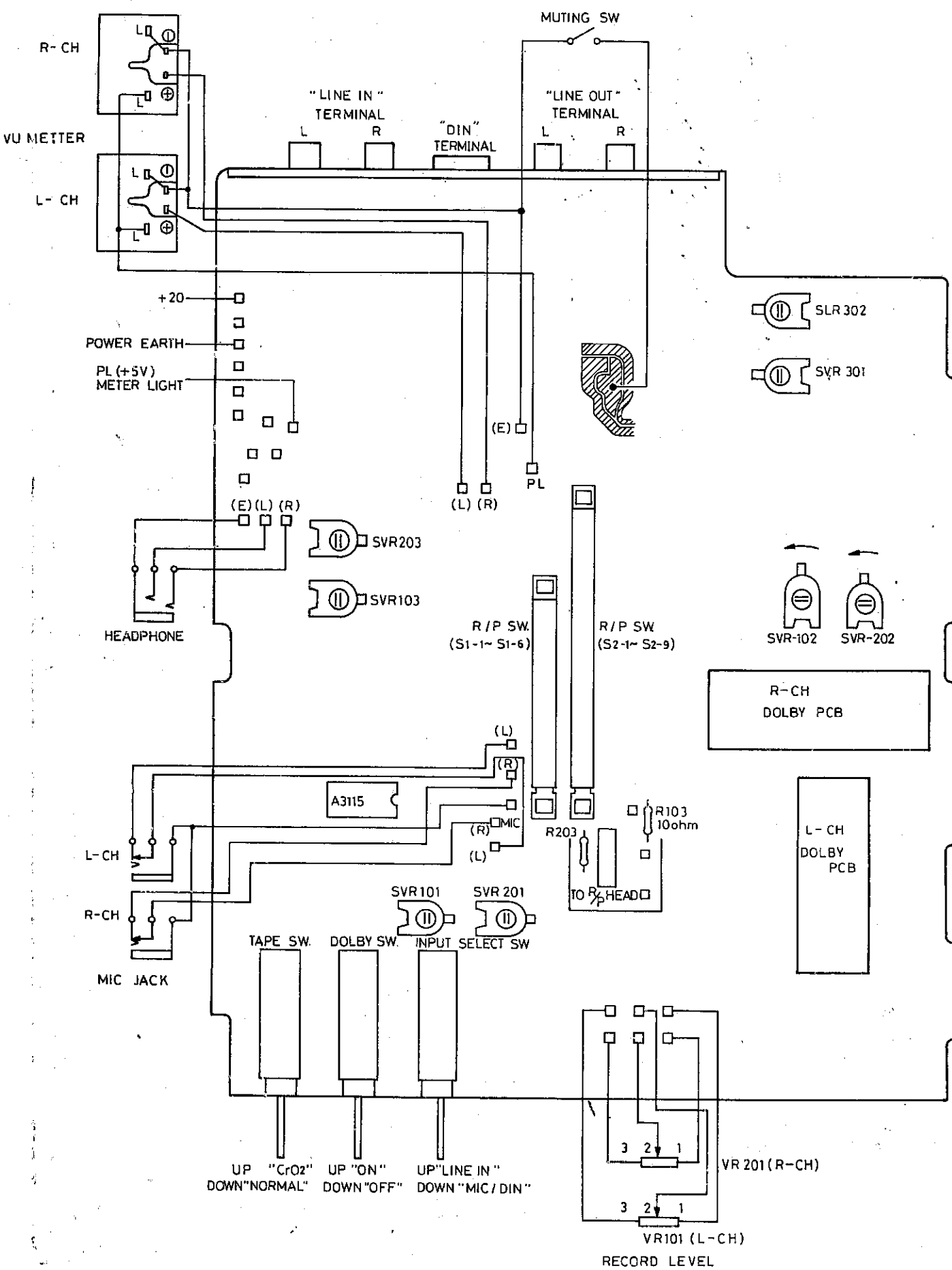
TORQUE ADJUSTMENT

1. Set the unit to the PLAY, FAST FORWARD or REWIND mode.
2. Measure the each torque with a torque gauge. They should be as following:

PLAY	30 – 60 g/cm
FAST FORWARD	55 – 90 g/cm
REWIND	55 – 100 g/cm
3. If the each torque fails to reach the standard value. Clean the drive belt, flywheel, motor pulley, take-up reel, idler and rewind roller with a cotton swab soaked in alcohol.

Item	Test tape	Test point	Input terminal	Input frequency	Input level	Tape switch	Dolby switch	Limiter switch	Rec. volume	Adjust-point	Adjustment & Ratings																
1	Meter	SANYO Test tape	LINE OUT	1 KHz	-20 dB		OFF	OFF	Adjust	SVR 103 SVR 203	Press the PAUSE key after setting the unit in the recording mode. Next, adjust REC VR to obtain an output of 0.7V at LINE OUT. Also, adjust SVR 103 and 203 until the meter reading become 0 VU.																
2	Head azimuth	VTT-658 10 KHz -15 dB	LINE OUT			NORMAL	OFF			Adimuth Screw	Adjust azimuth screw to obtain maximum 10 KHz output for both L & R channels.																
3	Output Power (Playback)	MTT-150 DOLBY TAPE	LINE OUT METER			NORMAL	OFF			SVR 101 SVR 201	Adjust SVR 101 and 201 until the VU meters stand at +2 dB. When making this adjustment, the output level at LINE OUT should be kept at 0.9V±0.5dB.																
4	BIAS	SANYO Test tape	R 103 R 203			NORMAL				SVR 301 SVR 302	Adjust SVR 301 and 302 so that the voltage values at both ends of R103 and 203 correspond to those listed in the table below. L-ch R-ch <table><tr><th>Bias value</th><th>Colour</th></tr><tr><td>4 mmV</td><td>Purple</td></tr><tr><td>4.5 mmV</td><td>Green</td></tr><tr><td>5 mmV</td><td>Black</td></tr><tr><td>5.5 mmV</td><td>Red</td></tr><tr><td>6 mmV</td><td>Neutral</td></tr><tr><td>6.5 mmV</td><td>Blue</td></tr><tr><td>7 mmV</td><td>Brown</td></tr></table>	Bias value	Colour	4 mmV	Purple	4.5 mmV	Green	5 mmV	Black	5.5 mmV	Red	6 mmV	Neutral	6.5 mmV	Blue	7 mmV	Brown
Bias value	Colour																										
4 mmV	Purple																										
4.5 mmV	Green																										
5 mmV	Black																										
5.5 mmV	Red																										
6 mmV	Neutral																										
6.5 mmV	Blue																										
7 mmV	Brown																										
5	REC/PLAY frequency response	SANYO Test tape	LINE OUT	1 KHz 10 KHz	-40 dB	NORMAL	OFF	OFF	The position of METER ADJUST	SVR 301 SVR 302	Record and playback 1 KHz and 10 KHz signals. Adjust SVR 301 and 302 to obtain an output as close to +1 dB as possible at 10 KHz, provided that the frequency response at 1 KHz is 0 dB.																
6	Output Power (REC/PLAY)	SANYO Test tape	LINE OUT	1 KHz	-20 dB	NORMAL	OFF	OFF	The position of METER ADJUST	SVR 102 SVR 202	Set the 0.7V the output level for monitoring recordings. Then, adjust SVR 102 and 202 to obtain a REC/PLAY output of 0.7V.																

TEST POINT



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKING			
	141-6-132T-73802	Individual Carton	1
	141-6-144T-31700	Side Pad	2
	123-6-453R-00100	Inspection Sheet	2
	141-6-411T-89502	Instruction Booklet	1
	141-6-421T-30102	Schematic Diagram	1
	141-6-231T-50700	Inner Polyethylene Bag, Set	1
	141-6-231T-10300	Inner Polyethylene Bag, Power Supply Cord	1
	141-6-231T-10200	Inner Polyethylene Bag, RCA Lead	1
	141-6-231T-20300	Inner Polyethylene Bag, Instruction Booklet	1
	141-6-316T-74000	Pad	1
	141-6-479T-08300	Label	1
ACCESSORIES			
	4-243T-13300	Lead, RCA-RCA	2
	4-241T-10274	Cassette Tape C-12	1
CABINET			
	141-9-122T-18300	Front Panel Assembly	1
	141-2-246T-17500	Sheet	1
	141-2-447T-46301	Cushion, 4 x 77 x 5mm	1
		Front Panel Mtg.	1
	141-2-447T-60500	Cushion	1
	141-2-111T-30801	Cabinet	1
	141-2-125T-08700	Bottom Lid	1
	141-9-163T-38200	Rotary Knob Assembly, Record Level	2
	141-9-174T-05100	Stand Assembly	2
	141-9-124T-16000	Cassette Comp. Lid Assembly	1
	141-2-224T-08100	Bracket, Cass, Lid Mtg.	1
	141-2-331T-02900	Holder, Cass, Lid Mtg. Left	1
	141-2-331T-03000	Holder, Cass, Lid Mtg. Right	1
	141-2-851T-99800	Coil Spring, Holder Mtg.	2
CHASSIS			
	141-2-352T-19400	Spacer, LED	1
	141-9-311T-00500	Chassis Assembly	1
	141-2-741T-92700	Lever, Cass, Lid Lock	1
	141-2-365T-33600	Bracket, Power Switch	1
	141-2-445T-16200	Rubber Cushion, AC Cord Fixer	1
	123-2-453R-10500	Plastic Washer AC Cord Fixer	1
	141-2-411T-03500	Plate Nut Cabinet Mtg.	2
	141-2-852T-37700	Wire Spring, R/P Select with Shaft (753T-052)	1
	141-2-262T-03900	Bracket, Switch Mtg.	3
	141-2-156T-06101	Cup Knob, Counter	1
	141-2-156T-13600	Cup Knob Switch Mtg.	3
	141-2-851T-99700	Coil Spring, Cass, Lid Opener	1
	141-2-753T-07400	Shaft, Cass, Lid Fulcrum	1
		Cushion 10x50x4mm	4
	141-0-581T-00600	Meter Mtg.	1
		Gear Assembly, Cass Lid Opener	1
	141-2-161T-34401	Push Button, Power Switch	1
	141-2-377T-19000	Bracket, P.C.B. Mtg.	1
	141-2-852T-36600	Wire Spring, P.C.B. Ground	1
	141-2-753T-22100	Shaft, R/P Select	1
		Spring Pin 2.5φ x22mm, R/P Select	1
	141-2-352T-35800	Wire Spring, Mount Shaft & Hook the Spring Pin	1
	141-2-731T-46000	Slide, R/P Select	1
	141-2-153T-29601	Escutcheon	4
	141-2-153T-39603	Escutcheon Eject	1
	141-2-153T-29605	Escutcheon Record	1
	141-2-153T-29701	Escutcheon Stop	1
		Rubber Cushion, 10x10x4mm	2
		Shield Plate	3
	141-2-464T-08700	Fixer	3
	141-6-479T-05203	Indication Label	1
	141-2-465T-14300	Stopper Upper the Plate Spring	1

Ref. No.	Part No.	Description	Q'ty
CHASSIS			
	141-2-853T-51600	Plate Spring, Mechanism	1
	141-2-447T-35100	Chassis Mtg.	1
	141-2-322T-35000	Cushion	1
	123-2-472R-00601	Shield Plate	1
		Lug	1
ELECTRICAL PARTS			
S10-1 ~ 2	4-231T-53700	Switch, Power	1
	4-235T-30500	Socket, Headphone	1
	4-235T-30600	Socket, Mic	2
S7-1 ~ 3	4-231T-43000	Switch, Muting	2
S8-1 ~ 2			
	4-243R-76600	Power Cord	1
	141-2-382T-02000	Terminal Clip	2
	141-2-472T-02300	Lug, Volume Ground	2
	4-251T-64500	Power Transformer	1
VR101	4-222T-40500	Variable Resistor 50k(A)	2
		Record Level Volume	NLA
	4-511T-07378	Meter	2
	123-2-472R-00401	Lug, Panel Ground	1
	4-234T-01100	Fuse 315mA	1
	4-234T-05200	Fuse 250mA	1
	4-234T-01700	Fuse 400mA	1
	141-2-383T-02001	Fuse Holder	1
P.C.B. ASSY MAIN AMP			
	140-9-230T-06400	Printed Circuit Board Assembly, MAIN AMP with DOLBY P.C.B. Assembly	1
	4-235T-33800	Socket, LINE IN & LINE OUT	1
	4-235T-32100	Socket, IC	2
	4-235T-32400	or Socket, IC	2
	4-236T-10273	Plug, Record/Playback 6P	1
S1-1 ~ 6	4-231T-48500	Switch, Record/Playback	1
S2-1 ~ 9	4-231T-45673	Switch Record/Playback	1
S3-1 ~ 3	4-231T-58972	Switch, Tape Select	1
S4-1 ~ 2			
S6-1 ~ 2	4-231T-59072	Switch, MIC/LINE & Dolby	2
	4-237T-00100	Terminal	45
	4-236T-09600	Plug, 6-pin Dolby	2
	141-2-322T-21301	Shield Plate	1
SVR101,201	4-222T-39475	Semi Fixed Resistor 10k(B), Record & Playback	4
102,202		Output Adjust	4
SVR103,203	4-222T-39474	Semi Fixed Resistor 5k(B), Meter Adjust	2
SVR301,302	4-222T-39478	Semi Fixed Resistor 100k(B), Bias Adjust & R/P Frequency Response Adjust	2
L101,201	4-253T-01019	High Frequency Choke Coil 4.7mH	2
L102,202	4-252T-04100	Low Frequency Choke Coil 10mH	2
	4-258T-12800	OSC Coil	1
		IC LA3115	1
Q103,203		Transistor 2SC945	2
Q104,105,		Transistor 2SC536	6
106,204,			
205,206			
Q301		Transistor 2SC536	1
Q302		Transistor 2SD545	1
D102,103,		Diode 1S188AM	4
202,203			
D301,302		Diode 1S1885	2
D303,304		Diode DS442	2
D305		Zener Diode WZ081	1
CAPACITORS			
C106,206		Ceramic 10pF ±20% 50WV	2
C105,205		Ceramic 150pF ±20% 50WV	2
C125,225,		Ceramic 220pF ±20% 50WV	4
301,302			
C124,224		Ceramic 270pF ±10% 50WV	2
C123,223		Ceramic or Mylar 680pF ±10% 50WV	2
C315		Ceramic 0.022μF ±20% 50WV	1

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
P.C.B. ASSY MAIN AMP			
C192,202		Mylar 680pF $\pm 10\%$ 50WV	2
C198,203,393		Mylar 0.0033 μ F $\pm 5\%$ 50WV	3
C122,222		Mylar 0.0068 μ F $\pm 10\%$ 50WV	2
C110,219		Mylar 0.018 μ F $\pm 5\%$ 50WV	2
C304		Mylar 0.022 μ F $\pm 20\%$ 50WV	1
C121,221		Mylar 0.027 μ F $\pm 5\%$ 50WV	2
C305		Mylar 0.033 μ F $\pm 10\%$ 50WV	1
C118,218		Electrolytic 0.47 μ F 10WV	2
C109,209		Electrolytic 1 μ F 16WV	2
C120,220		Electrolytic 1 μ F 25WV	3
C111,211,112,212,114,214,119,219		Electrolytic 2.2 μ F 25WV	8
C104,204,107,207,116,216,306		Electrolytic 4.7 μ F 25WV	7
C103,203		Electrolytic 10 μ F 16WV	2
C101,201		Electrolytic 22 μ F 6.3WV	2
C117,217		Electrolytic 22 μ F 16WV	2
C308		Electrolytic 47 μ F 25WV	1
C307,309,310		Electrolytic 220 μ F 25WV	3
C313		Electrolytic 330 μ F 16WV	1
C311		Electrolytic 1000 μ F 25WV	1
C312		Electrolytic 1000 μ F 16WV	1
R302,314		Carbon 8.2 ohm $\pm 10\%$ 1/4W	2
R103,203		Carbon 10 ohm $\pm 5\%$ 1/4W	2
R316,318		Solid 33 ohm $\pm 10\%$ 1/2W	2
R304		Carbon 56 ohm $\pm 5\%$ 1/4W	1
R140,240		Carbon 100 ohm $\pm 10\%$ 1/4W	2
R317		Carbon 180 ohm $\pm 5\%$ 1/4W	1
R128,228		Carbon 220 ohm $\pm 10\%$ 1/4W	2
R303		Carbon 330 ohm $\pm 5\%$ 1/4W	1
R126,226		Solid 680 ohm $\pm 10\%$ 1/2W	2
R115,215		Carbon 1K ohm $\pm 10\%$ 1/4W	2
R137,237,139,239		Carbon 1.2K ohm $\pm 5\%$ 1/4W	4
R111,211,120,220		Carbon 1.8k ohm $\pm 5\%$ 1/4W	4
R110,210,122,222,129,229,312,313		Carbon 2.2k ohm $\pm 5\%$ 1/4W	8
R119,219,138,238		Carbon 3.3k ohm $\pm 5\%$ 1/4W	4
R130,230		Carbon 3.9k ohm $\pm 10\%$ 1/4W	2
R131,231,133,233		Carbon 4.7k ohm $\pm 5\%$ 1/4W	4
R102,202		Carbon 5.6k ohm $\pm 10\%$ 1/4W	2
R132,232		Carbon 6.8k ohm $\pm 5\%$ 1/4W	2
R101,201,104,204,311		Carbon 10k ohm $\pm 10\%$ 1/4W	5
R116,216,117,217		Carbon 15k ohm $\pm 10\%$ 1/4W	4
R133,233,301		Carbon 18k ohm $\pm 10\%$ 1/4W	3
R113,213,135,235		Carbon 22k ohm $\pm 10\%$ 1/4W	4
R106,206,108,208		Carbon 33k ohm $\pm 5\%$ 1/4W	4
R121,221,143,243		Carbon 47k ohm $\pm 5\%$ 1/4W	4
R107,207		Carbon 56k ohm $\pm 5\%$ 1/4W	2
R127,227,141,241		Carbon 100k ohm $\pm 5\%$ 1/4W	4
R112,212		Carbon 180k ohm $\pm 10\%$ 1/4W	2
R105,205,134,234		Carbon 220k ohm $\pm 10\%$ 1/4W	4
R109,209		Carbon 470k ohm $\pm 5\%$ 1/4W	2
R116		Carbon 680k ohm $\pm 5\%$ 1/4W	1
R118,218		Carbon 820k ohm $\pm 10\%$ 1/4W	2
R142,242		Carbon 1M ohm $\pm 10\%$ 1/4W	2

RESISTORS

Ref. No.	Part No.	Description	Q'ty
P.C.B. ASSY LED			
LED302	140-9-230T-06500	Printed Circuit Board Assembly, LED	1
R308		Light Emitting Diode SLP114B, Red	1
R307		Carbon Resistor 820 ohm $\pm 10\%$ 1/4W	1
		Carbon Resistor 3.3k ohm $\pm 5\%$ 1/4W	1
P.C.B. ASSY, DOLBY			
L401,501	140-9-230T-24200	Printed Circuit Board Assembly, DOLBY	2
L402,502	4-252T-05600	Low Frequency Choke Coil, 36mH	2
	4-252T-02800	Low Frequency Choke Coil, 23mH Variable	2
D401,501		10-NE545B LM 1011N Diode 1S188AM	2
CAPACITORS			
C415,515		Ceramic 150pF $\pm 10\%$ 50WV	2
C418,518		Mylar 0.0022 μ F $\pm 5\%$ 50WV	2
C417,517		Mylar 0.0027 μ F $\pm 5\%$ 50WV	2
C416,516		Mylar 0.0039 μ F $\pm 5\%$ 50WV	2
C411,511		Mylar 0.0047 μ F $\pm 5\%$ 50WV	2
C414,514		Mylar 0.0056 μ F $\pm 5\%$ 50WV	2
C413,513		Mylar 0.027 μ F $\pm 5\%$ 50WV	2
C406,506		Mylar 0.047 μ F $\pm 5\%$ 50WV	2
C403,503		Electrolytic 0.1 μ F 16WV	4
C409,509			
C410,510		Electrolytic 0.33 μ F 16WV	2
C407,507,408,508,412,512		Electrolytic 10 μ F 16WV	6
C404,504,405,505		Electrolytic 4.7 μ F 25WV	4
C402,502		Electrolytic 47 μ F 16WV	2
C401,501		Electrolytic 220 μ F 16WV	2
RESISTORS			
R402,502		Carbon 120 ohm $\pm 5\%$ 1/4W	2
R408,508		Carbon 180 ohm $\pm 5\%$ 1/4W	2
R401,501,410,510		Carbon 1k ohm $\pm 10\%$ 1/4W	4
R406,506		Carbon 3.3k ohm $\pm 5\%$ 1/4W	2
R407,507		Carbon 47k ohm $\pm 5\%$ 1/4W	2
R409,509		Carbon 100k ohm $\pm 5\%$ 1/4W	2
R405,505		Carbon 150k ohm $\pm 5\%$ 1/4W	2
R404,504		Carbon 270k ohm $\pm 10\%$ 1/4W	2
R403,503		Carbon 680k ohm $\pm 5\%$ 1/4W	2
SCREW MOUNTING			
		Pan Head Screw 2.6x6mm	2
		Pan Head Screw 3x3mm	2
		Tapping Screw 2.6x8mm	2
		Tapping Screw 3x8mm	4
		Tapping Screw 3x10mm	2
		Tapping Screw 3x12mm	2
		External Tooth Lock Washer 3mm	1
		Pan Head Screw with Washer & Spring Washer 3x6mm	1
		Tapping Screw with washer 3x8mm	2
		Tapping Screw with Washer 3x10mm	7
		Tapping Screw with Washer 3x12mm	6
		Pan Head Screw 3x10mm	3
		Washer 3x8x1mm	3
		Binding Head Screw 3x8mm	4

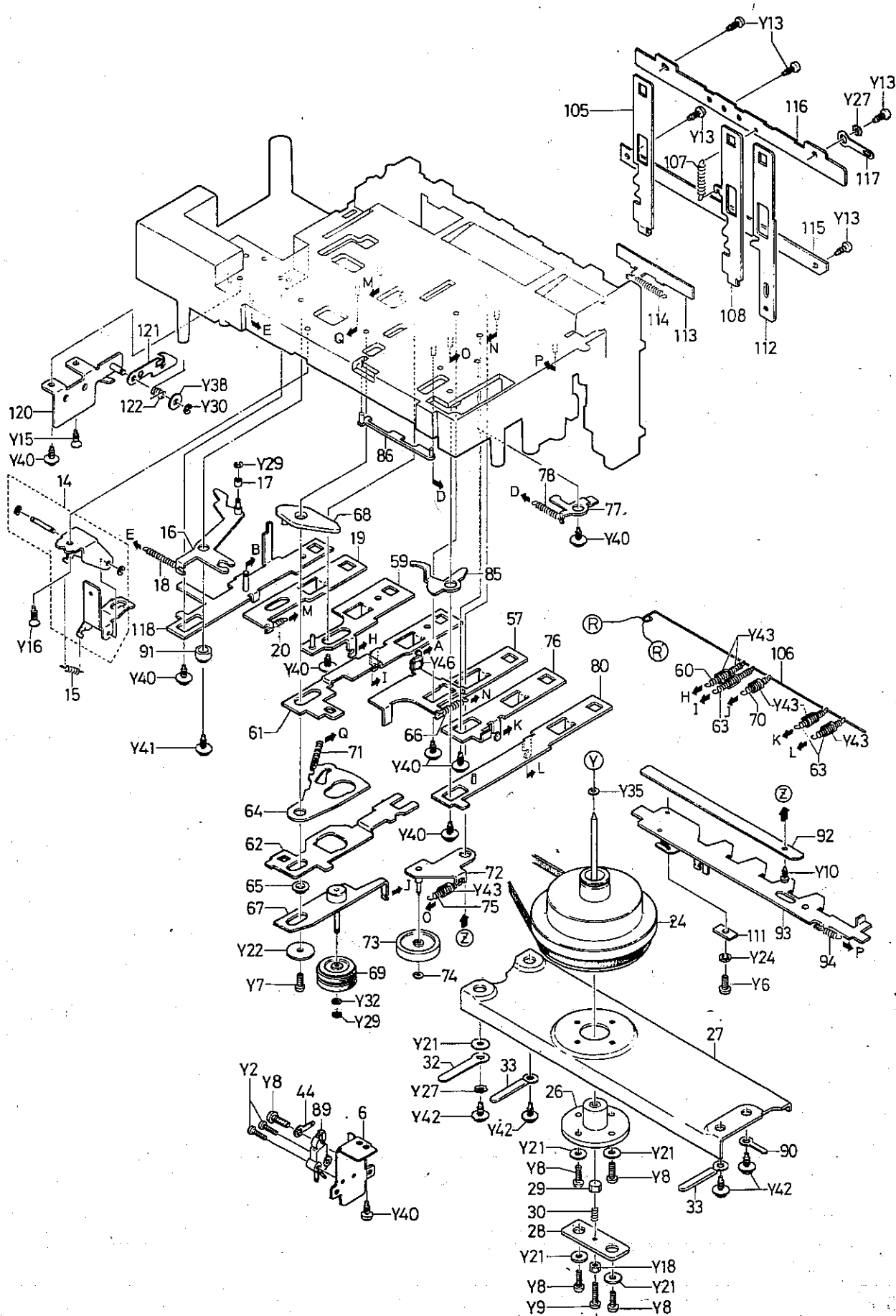
PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
MECHANISM				MECHANISM			
1	141-0-311T-22302	Mechanism Chassis	1	63	141-2-851T-31500	Coil Spring, Record, Eject & Rewind Slide Restore	2
2	141-0-311T-22303	Tape Counter	1	64	141-2-741T-43001	Lever, Fast Forward Pressure	1
3	141-2-811T-04700	Square Belt, Counter Belt	1	65	141-2-462T-41300	Boss, Slide (67) Shaft	1
4	141-0-731T-45391	Slide Assembly, Brake	1	66	141-2-851T-61300	Coil Spring, Slide (57) Restore	1
5	141-2-851T-59600	Coil Spring, Slide (4) Restore	1	67	141-0-731T-14400	Slide Assembly, Fast Forward Pressure	1
6	141-2-365T-34000	Bracket, Muting Switch Mtg.	1	68	141-2-741T-43102	Lever, Rewind Reverse	1
7	141-2-315T-12700	Reinforcement	1	69	141-0-662T-02200	Roller Assembly, Fast Forward & Rewind	1
8	4-527T-06671	DC Motor	1	70	141-2-851T-47802	Coil Spring, Slide (67) Mtg.	1
9	141-2-445T-07000	Rubber Cushion, Motor Mtg.	3	71	141-2-855T-10400	Coil Spring, Lever (64) Mtg.	1
10	141-2-421T-12500	Special Screw, Motor Mtg.	3	72	141-0-741T-18700	Lever Assembly, Rewind	1
11	141-0-573T-02000	Flywheel Shaft Bracket Assembly	1	73	141-2-661T-14902	Pulley, Rewind	1
12	141-0-661T-71091	Pulley Assembly Motor	1	74	141-2-457T-04100	Special Washer, Lever (72) Mtg.	1
13	141-2-411T-02601	Plate Nut, Flywheel Shaft Bracket (11) Mtg.	1	75	141-2-851T-31600	Coil Spring, Lever (72) Restore	1
14	141-0-741T-95791	Lever Assembly Play Push Up	1	76	141-2-731T-46200	Slide, Record	1
15	141-2-851T-79800	Coil Spring, Lever (14) Mtg.	1	77	141-2-741T-93100	Lever, Safety Recording	1
16	141-0-741T-18500	Lever Assembly, Lever (14) Drive	1	78	141-2-855T-05000	Coil Spring, Lever (77) Restore	1
17	141-2-683T-29800	Ring, Lever (16) Mtg.	1	79	141-2-731T-45200	Slide, Miss Recording Detector	1
18	141-2-851T-73500	Coil Spring, Play Pressure	1	80	141-0-731T-14800	Slide Assembly, Eject	1
19	141-2-731T-46600	Slide, STOP	1	81	141-0-741T-18600	Lever Assembly, Eject	1
20	141-2-851T-87700	Coil Spring, Slide (19) Restore	1	82	141-2-741T-93300	Lever, Cam	1
21	141-0-545T-02601	Pinch Roller Lever Assembly	1	83	141-2-731T-46900	Slide, Stopper	1
22	141-2-445T-18500	Rubber Cushion, Play Slide Stopper	1	84	141-2-855T-05100	Coil Spring, Slide (83) Mtg.	1
23	141-2-445T-17400	Rubber Cushion, Record Slide Stopper	1	85	141-2-741T-93400	Lever, Slide (80) Mtg.	1
24	141-0-521T-07200	Flywheel Assembly	1	86	141-2-731T-47200	Slide, Lever (87) Drive	1
25	141-2-457T-04300	Special Washer, Flywheel Shaft Mtg.	1	87	141-2-741T-94200	Lever, Cassette Pressure	1
26	141-2-577T-05000	Bracket, Flywheel Shaft Bracket Support	1	88	141-2-855T-05400	Coil Spring, Lever (87) Restore	1
27	141-2-524T-07401	Bracket, Flywheel Support	1	89	4-231T-37000	Switch, Power	1
28	141-2-411T-07300	Plate Nut, Flywheel Bracket (27) Mtg.	1	90	123-2-472R-00601	Lug, Lead Retainer	2
29	141-2-573T-06900	Bearing Flywheel Bracket (27) Mtg.	1	91	141-2-462T-41000	Boss, Slide (89) Mtg.	1
30	141-2-855T-02100	Coil Spring, Flywheel Bracket (27) Mtg.	1	92	141-2-737T-04700	Bracket, Button Slide Fixer	1
31	141-2-561T-03600	Main Belt	1	93	141-0-731T-14600	Slide Assembly, Lock Slide	1
32	141-2-472T-01200	Lug, Flywheel Bracket Ground	1	94	141-2-851T-74000	Coil Spring, Slide (93) Restore	1
33	141-2-472T-01201	Lug, Lead Retainer	2	95	141-2-855T-08600	Coil Spring, Kick Lever Restore	1
34	141-0-531T-05100	Reel Plate Assembly, Right Reel	1	96	141-2-611T-10000	Lever, Push Button, Except PAUSE	6
35	141-2-661T-16103	Pulley, Fast Forward	1	97	141-2-611T-10100	Lever, Push Button, PAUSE	1
36	141-2-452T-01200	Felt Washer, Play Slip	1	99	141-2-612T-03600	Shaft, Lever Push Button Mtg.	1
37	141-2-661T-15201	Pulley, Play	1	100	141-2-853T-45200	Plate Spring, Shaft (99) Mtg.	2
38	141-2-457T-06200	Special Washer, Reel Thrust	2	101	141-2-855T-04800	Coil Spring, Lever Push Button Restore	7
39	141-2-562T-03600	Round Belt	1	102	141-2-812T-06400	Bracket, Counter Mtg.	1
40	141-0-531T-05200	Reel Plate Assembly, Left Reel	1	103	141-0-721T-04491	Lever Assembly, Auto Stop	1
41	141-2-851T-62900	Coil Spring, Back Tension	1	105	141-2-731T-45600	Slide, Stop	1
42	141-2-662T-08300	Roller Rewind	1	106	141-2-735T-10400	Rod, Lever Push Button Restore Hook	1
43	141-2-472T-06000	Lug, Flywheel Ground	1	107	141-2-855T-14900	Coil Spring, Slide (108) Restore	1
44	123-2-472R-00401	Lug, Switch Terminal Mtg.	1	108	141-2-731T-55200	Slide, Play	1
45	141-0-731T-14901	Slide Assembly, Head Slide	1	109	4-235T-34573	Socket, R/P Head 6P	1
46	141-2-457T-10200	Special Washer, Under the Left Reel Thrust	1	110	4-235T-34600	Socket, E Head 1P	2
47	141-2-852T-37600	Wire Spring, Pinch Roller Pressure	1	111	141-2-465T-13100	Stopper, Slide (93) Mtg.	1
48	4-242T-20200	R/P Head	1	112	141-2-731T-45700	Slide, Record	1
49	4-242T-13600	E Head	1	113	141-2-731T-45500	Slide, Safety Lock at Play	1
50	141-2-851T-49700	Coil Spring, R/P Head	1	114	141-2-851T-59700	Coil Spring, Slide (113) Restore	1
51	123-2-472R-00200	Azimuth Adjust	1	115	141-2-737T-04600	Bracket, Slide (105, 112) Fixer at Under	1
52	141-2-462T-41200	Lug, Head Ground	2	116	141-2-737T-04801	Bracket, Slide (105, 112) Fixer at Higher	1
53	141-2-472T-02400	Boss, E Head Stand	2	117	123-2-472R-00600	Lug, Lever Push Button Ground	2
54	141-2-821T-10200	Lug, Head Lead Retainer	1	118	141-0-731T-14701	Slide Assembly, Pause	1
55	141-2-853T-45401	Tape Guide	1	119	141-2-855T-73800	Coil Spring, Slide (118) Restore	1
56	141-2-855T-02201	Plate Spring, Head Slide (45) Pressure	1	120	141-0-369T-00300	Bracket, Assembly, Solenoid Mtg.	1
57	141-2-731T-46300	Coil Spring, Play Slide Restore	1	121	141-2-614T-05300	Lever, Pause Lock	1
58	141-2-853T-41400	Slide, Play	1	122	141-2-852T-35600	Wire Spring, Lever (121) Mtg.	1
59	141-0-731T-14300	Plate Spring, Head Slide Pressure	1				
60	141-2-851T-61300	Slide Assembly, Fast Forward	1				
61	141-2-731T-46400	Coil Spring, Slide (59) Restore	1				
62	141-2-731T-23400	Slide, Rewind	1				
		Slide, Rewind Reverse	1				

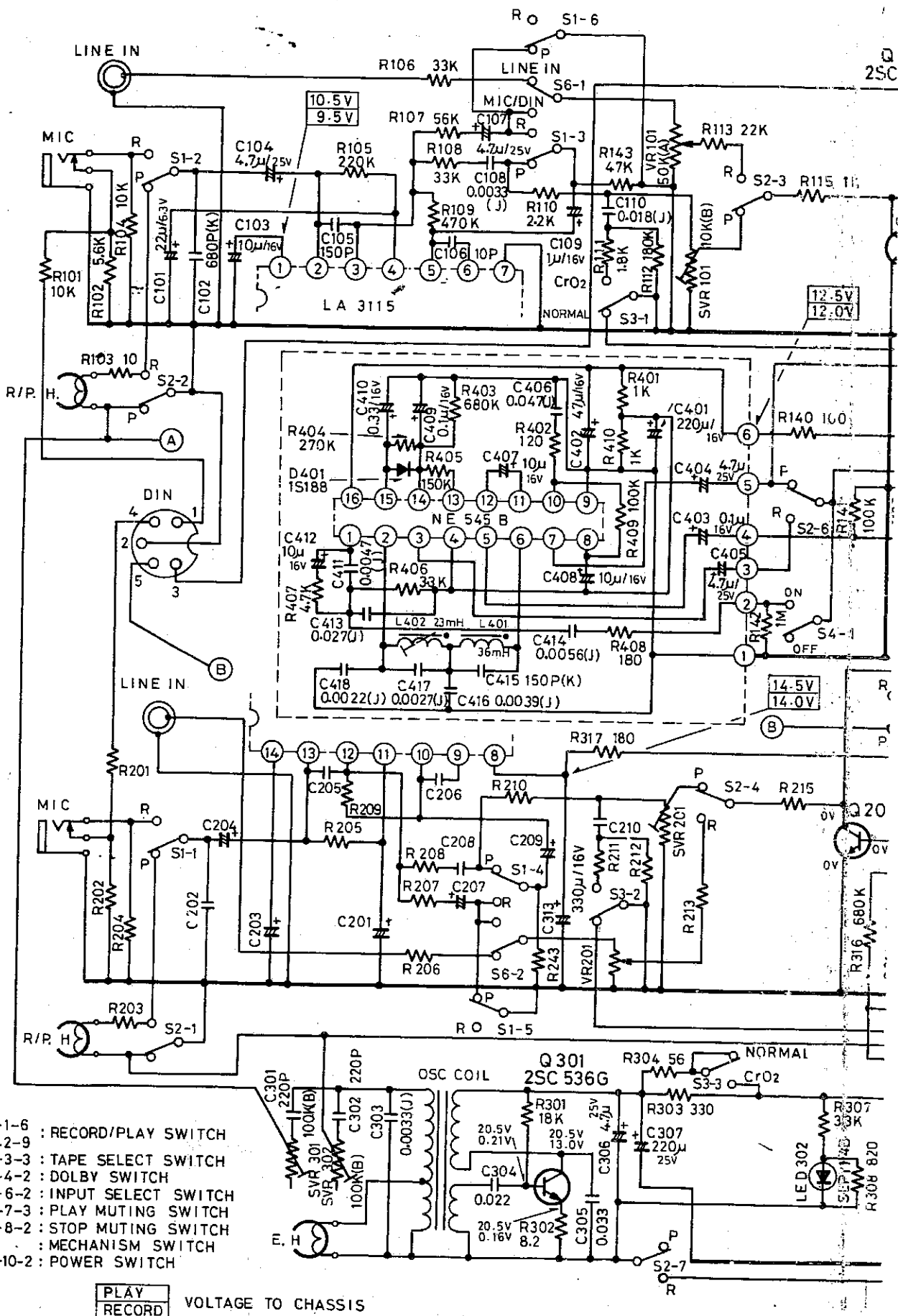
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
MECHANISM SCREWS			
Y1		Pan Head Screw 2x2mm	1
Y2		Pan Head Screw 2x8mm	4
Y3		Pan Head Screw 2x12mm	2
Y6		Pan Head Screw 3x4mm	1
Y7		Pan Head Screw 3x6mm	1
Y8		Pan Head Screw 3x8mm	5
Y9		Pan Head Screw 3x10mm	1
Y10		Tapping Screw 2.3x6mm	6
Y11		Flat Head Screw 3x6mm	2
Y12		Tapping Screw 3x6mm	1
Y13		Tapping Screw 3x8mm	8
Y15		Flat Head Tapping Screw 3x6mm	2
Y16		Flat Head Tapping Screw 3x8mm	2
Y18		Nut 3mm	1
Y21		Washer 3x8x0.5mm	8
Y22		Washer 3x13x1mm	1
Y23		Spring Washer 2mm	3
Y24		Spring Washer 3mm	3
Y25		Internal Tooth Lock Washer 2.6mm	1
Y27		External Tooth Lock Washer 3mm	1
Y28		External "E" Ring 1.2mm	2
Y29		External "E" Ring 1.5mm	3
Y30		External "E" Ring 2mm	2
Y32		Graphite Nylon Washer 2.1x4x0.25mm	5
Y34		Graphite Nylon Washer 2.1x8.5x0.25mm	1
Y35		Graphite Nylon Washer 2.6x4.7x0.5mm	1
Y36		Graphite Nylon Washer 5.2x8x0.13mm	1
Y37		Graphite Nylon Washer 5.2x8x0.25mm Va	1
Y38		Fiber Washer 3x8x0.5mm	1
Y39		Steel Ball 2 ϕ n/m	5
Y40		Tapping Screw with Washer 3x6mm	12
Y41		Tapping Screw with Washer 3x8mm	2
Y42		Tapping Screw with Washer 3x10mm	4
Y43		Vinyl Tube 4x12mm	8
Y45		Rubber Cushion 3x4x1mm	1

EXPLODED VIEW



SCHEMATIC DIAGRAM



WATKINS



