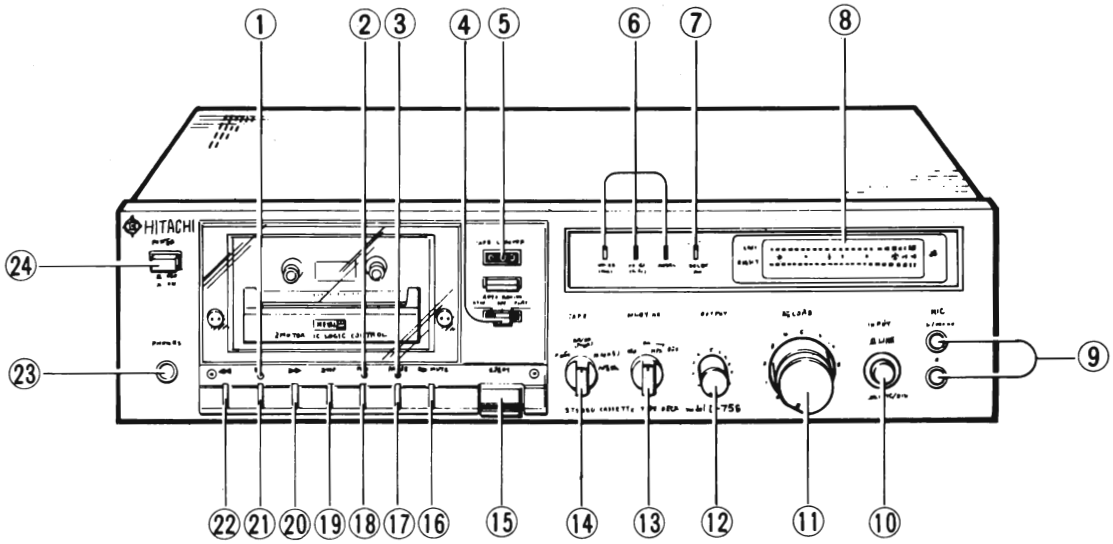
HITACHI

D-75S
(U, C, W, FS, BS, AU)

SERVICE MANUAL

English

No. 1192



KEY TO ILLUSTRATIONS

1. Play Indicator
2. Recording Indicator
3. Pause Indicator
4. Auto Rewind Switch
5. Tape Counter
6. Tape Position Indicator
7. Dolby Indicator
8. Digital Peak Meter
9. Microphone Sockets (left/mono and Right)
10. Input Selector
11. Recording Level Control (Left/Right)
12. Output level Control
13. Dolby NR/MPX Filter Switch
14. Tape Selector Switch
15. Eject button
16. Rec. Mute Button
17. Pause Button
18. Record Button
19. Stop Button
20. Fast Forward Button
21. Playback Button
22. Rewind Button
23. Headphone Socket
24. Power (Mains) Switch

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with those of other manufactures. Critical parts are marked with ⚠ in the schematic diagram, and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

Note :

U	USA	**FS**	Switzerland and Scandinavia	**C**	Canada
W	General Area	**BS**	Great Britain	**AU**	Australia

STEREO CASSETTE TAPE DECK

June 1979

SPECIFICATIONS

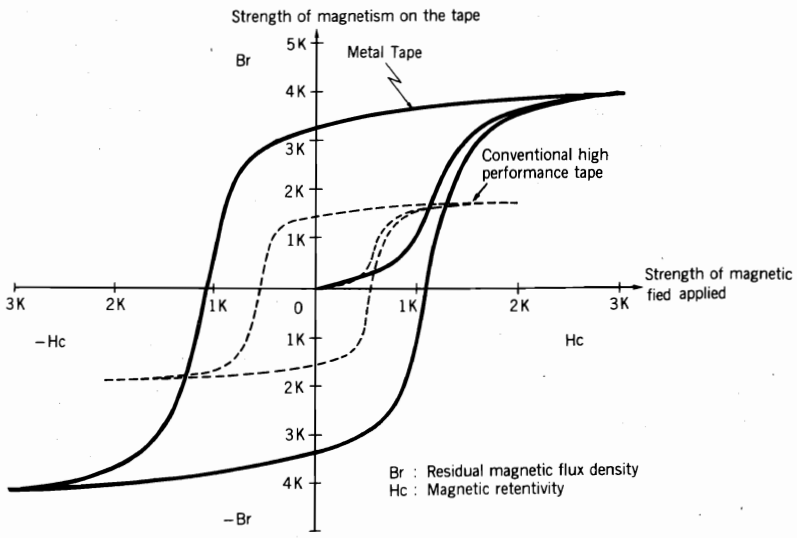
Semi-conductors:	
IC's	8
Transistors	18
Diodes	27
LED's	7
Track System:	4 track 2 channel
Tape:	Cassette tape (C-30, 60, 90)
Tape Speed:	4.75 cm/s
Recording System and Bias Frequency:	AC bias, 85 kHz
Erasing System:	AC erase
Erase Ratio :	65 dB or more (at 1 kHz)
Frequency Response:	
Normal (UD—ER)	20 Hz to 17 kHz
	30 Hz to 15 kHz (±3 dB)
	30 Hz to 15 kHz*
Metal	20 Hz to 19 kHz
	30 Hz to 17 kHz (±3dB)
	30 Hz to 17kHz*
CrO_2 (UD-EX)	20 Hz to 18 kHz
	30 Hz to 16 kHz (±3 dB)
	30 Hz to 16 kHz*
FeCr	20 Hz to 17 kHz
	30 Hz to 15 kHz (±3 dB)
	30 Hz to 15 kHz*
S/N (Signal to Noise Ratio):	
Dolby NR OFF	58 dB (A weighted, Reference 3% T.H.D. UD-EX Tape)
	57 dB*
Dolby NR ON	66 dB (A weighted, Reference 3% T.H.D. UD-EX Tape)
	64 dB*

Wow and Flutter:	0.04% (WRMS)
	0.13%*
Input Sensitivity and Impedance:	
Microphone	0.38 mV, 300 ohms to 5 kohms
Line in	60 mV, 100 kohms
DIN in	0.38mV, 3.3 kohms (For W, AU, BS, FS)
Output Level:	500mV or more
Output Load Impedance:	
Line out	50 kohms
DIN out	470 kohms (For W, AU, BS, FS)
Headphone	8 ohms to 2 kohms
Distortion:	Less than 1.2% (1 kHz 0 dB)
Cross Talk:	
Between tracks	60 dB (at 1 kHz) or more
Between channels	30 dB (at 1 kHz) or more
Power Supply:	AC 120V, 60 Hz (For U, C)
	AC 220V, 50 Hz (For FS)
	AC 240V, 50 Hz (For BS, AU)
	AC 100 to 110V, 115 to 127V 200 to 220V, 230 to 250V 50/60 Hz (For W)
Power Consumption:	24 W
Dimensions:	110 (H) X 435 (W) X 267 (D) mm
Weight:	6.2 kg
Motor:	Electronically controlled motor X 1
	DC motor X 1
Heads:	Record/Playback Head X 1
	Erase head X 1

* According to DIN 45 500

Features of Metal Tape

Metal Tape is a newly developed cassette tape, which has a magnetic material mainly composed of pure iron (Fe) on its polyester base. Compared with conventional tape which uses oxide as its magnetic material, this new cassette tape has higher magnetic retentivity and residual magnetic flux density, so it is much more effective, improving the dynamic range of cassette decks at high frequencies, increasing the max. recording level, reducing distortion, etc.



REC/PLAY/ERASE heads adapted for the metal tape

The REC/PLAY head made from Sendust alloy can generate sufficient recording bias magnetic field which matches the high magnetic retentivity of Metal Tape. The ERASE head, which has a double-gap structure using special ferrite material is used to completely erase the signal recorded on Metal Tape, so the greatly improved performance of Metal Tape can be displayed to the full.

(Reference) Recording bias current is as shown below.

Normal tape : Approx. 350μA

CrO_2 tape : Approx. 450μA

Metal tape : Approx. 800μA

Caution :

Some Metal Tape have level fluctuations caused by peeling off of the magnetic powder, so use the magnetic tape after fully cleaning the head surface and capstan and pressure roller using alcohol.

DESCRIPTION OF NEW CIRCUIT

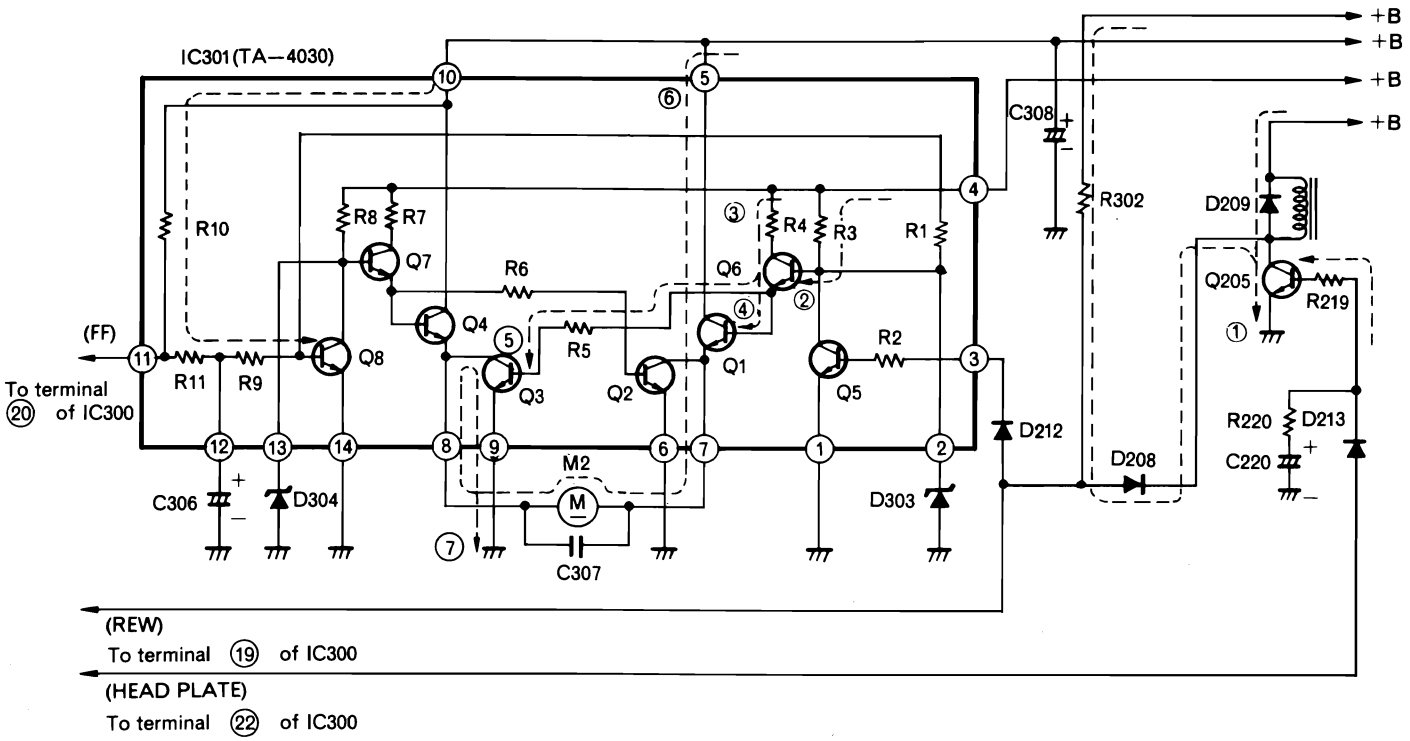


Fig. A

MOTOR DRIVE MODULE (TA-4030)

This unit uses 2 DC motors; a capstan drive motor (DC servo) and turntable drive motor (with mechanical governor). The capstan drive motor rotates instantaneously when power is applied. The turntable drive motor rotates when the polarity of the voltage applied to the motor is changed over by the mode control IC and power is applied. Accordingly, the direction of rotation of the motor during Fast forward, and during Rewind and take-up are reversed.

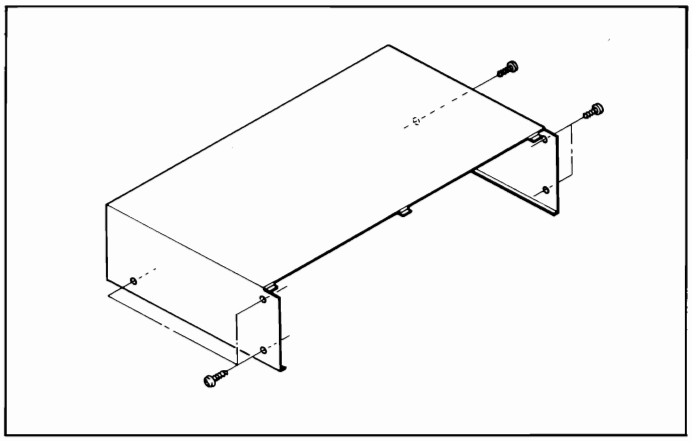
Figure A shows the switching circuit of M2 for the turntable drive motor. Q4 is the switching transistor supplying +B voltage to the motor during Fast forward and Q1, during Rewind and take-up (Record/Playback/Fast forward). Q2 is the switching transistor grounding the motor during Fast forward and Q3, during Rewind and take-up (Record/Playback/Fast forward). These transistors are OFF in the Stop mode. They are controlled by Q8, Q7 and the mode control IC during Fast forward and by Q5, Q6 and the mode control IC during Rewind and take-up (Record/Playback/Fast forward). D303 and D304 make the bias current flowing to the bases Q6 and Q7 constant, regardless of power fluctuations, to limit the current applied to the turntable motor.

In the take-up mode, terminal (22) of IC300 is set to "High" level, Q205 turns ON and the head plate solenoid operates when the Playback button is pressed. At the same time, since the collector of Q205 is set to "Low" level, the base bias of Q5 is grounded via D208 and cut off (Dotted line (1)).
When Q5 is turned OFF, Q6 is biased by R3 (Dotted line (2)) and turned ON. When Q6 is turned ON, Q1 and Q3 are turned ON (Dotted line (3)(4)(5)), and the current flows to the motor as in the direction shown with dotted lines (6), (7) and the motor starts rotating. Since terminal (19) of IC300 is set to "Low" level during Rewind, Q5 is cut off, and Q6, Q1 and Q3 operate in the same way as in the take-up mode. Since terminal (20) of IC300 is set to "Low" level during Fast forward, Q8 turns OFF, Q7, Q4 and Q2 turn ON with the same operation principle as in the Rewind mode, and the current flows in the reverse direction to that during Rewind.

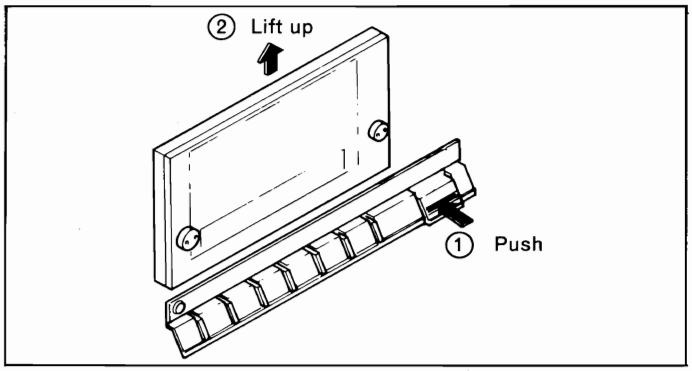
Note: The motor rotates in the same direction during Playback and Rewind because of its design.

DISASSEMBLY

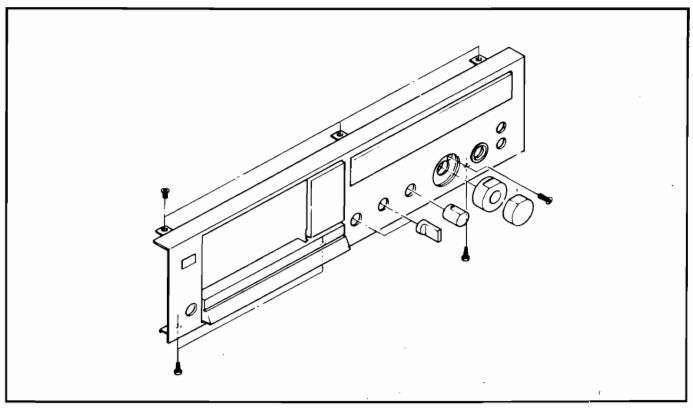
1. Top Cover



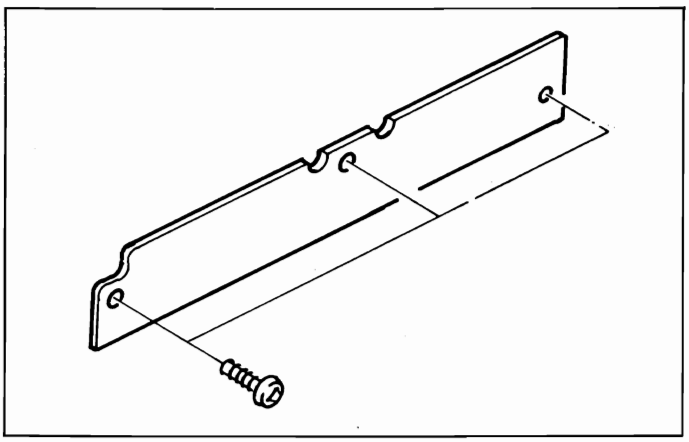
2. Cassette Lid



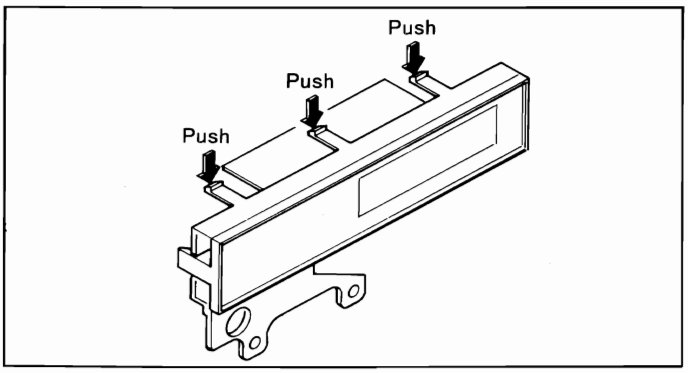
3. Front Panel



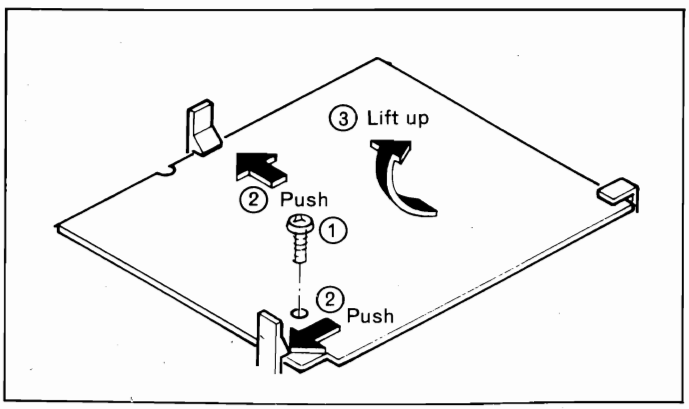
4. Control PC Board



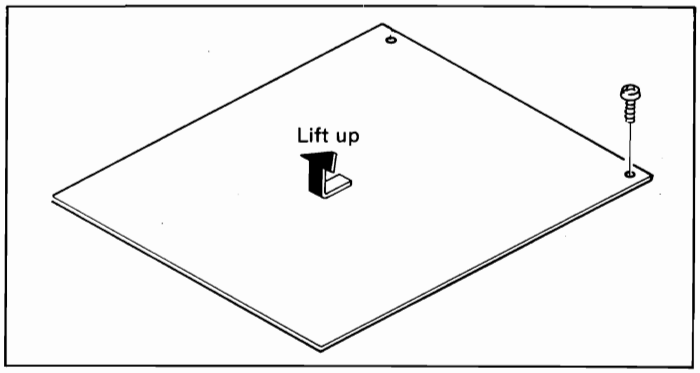
5. Indicator Holder



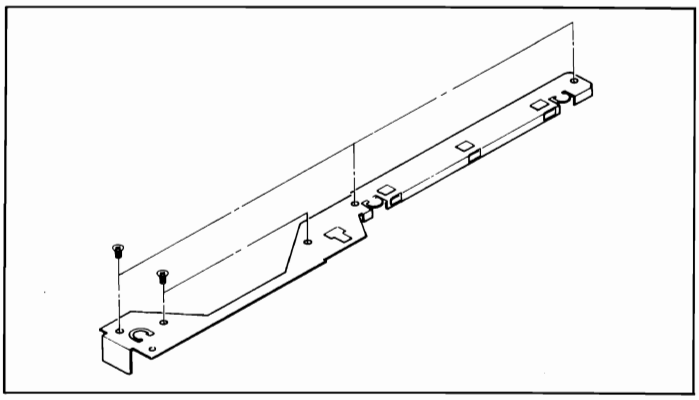
6. Power PC Board



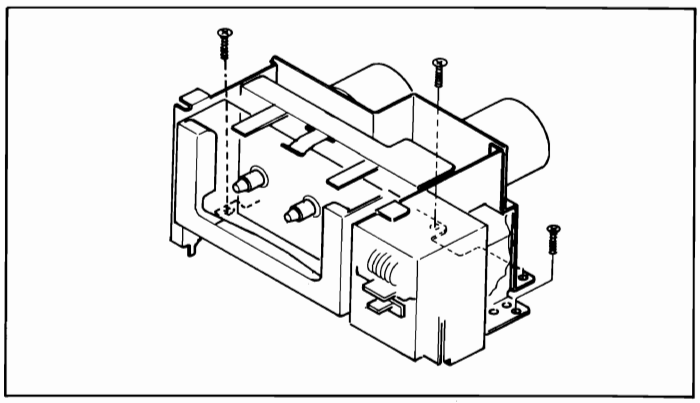
7. Main PC Board



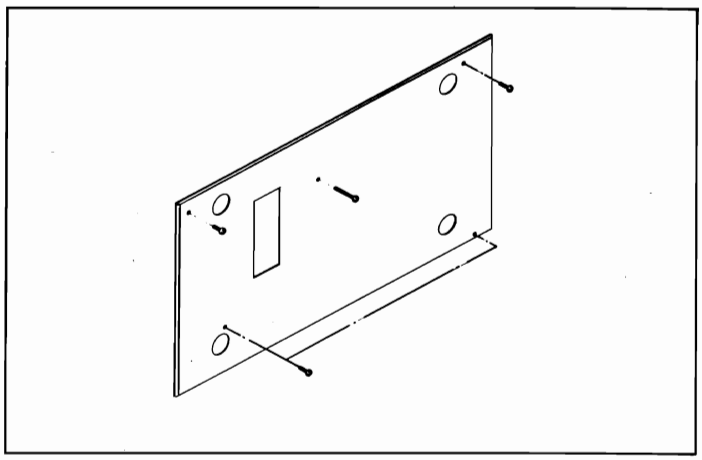
8. Chassis



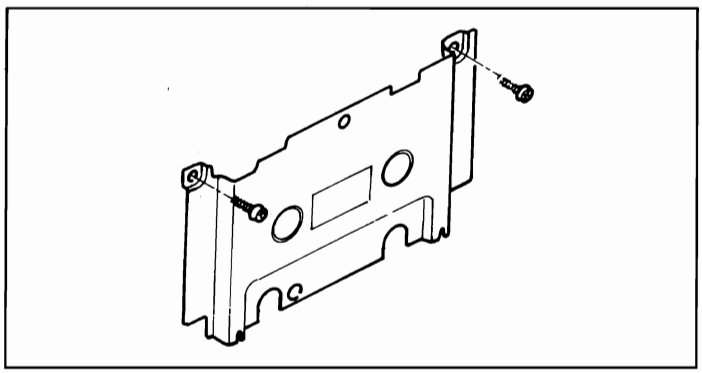
9. Cassette Chassis



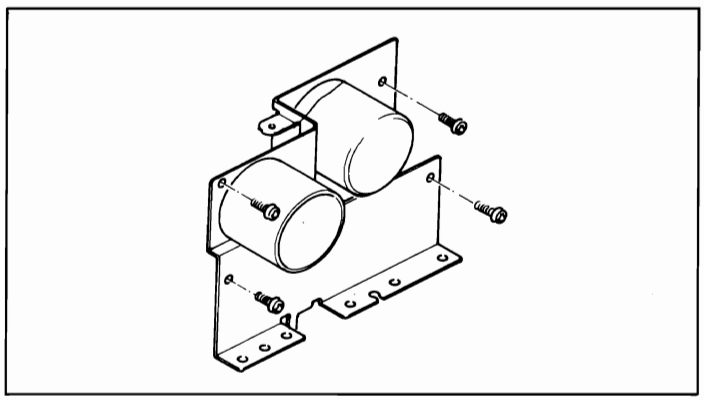
10. Bottom Cover



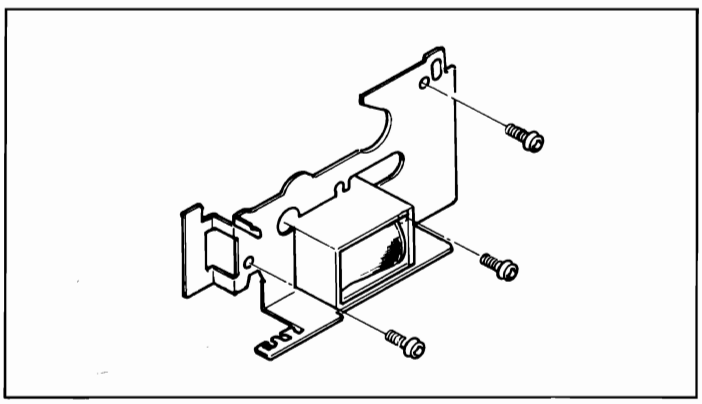
11. Cassette Metal



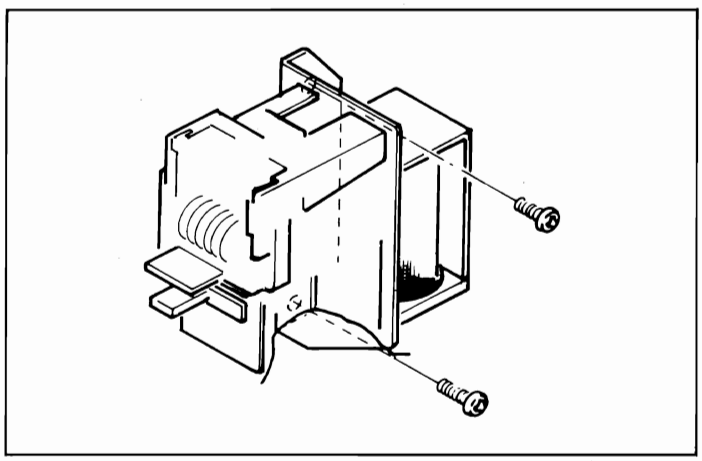
12. Flywheel Holder



13. Solenoid Plate



14. Counter Holder

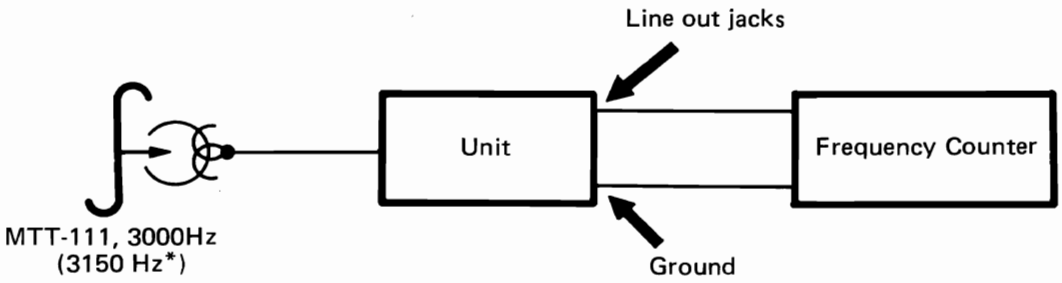


ADJUSTMENT

Perform the following adjustments in the sequence stated after cleaning the head, pressure roller, and capstan with a head cleaning stick moisted in alcohol. Also, unless specially indicated otherwise, set the switches and controls to the positions indicated in the table.

Symbol No.	Switches and Controls	Position	Symbol No.	Switches and Controls	Position
S1	DOLBY NR switch	OFF	S3	Input selector switch	LINE
S2	Tape selector switch	UD-ER (NORMAL)	RV1	Record level controls	Maximum
			RV2	Output level controls	Maximum

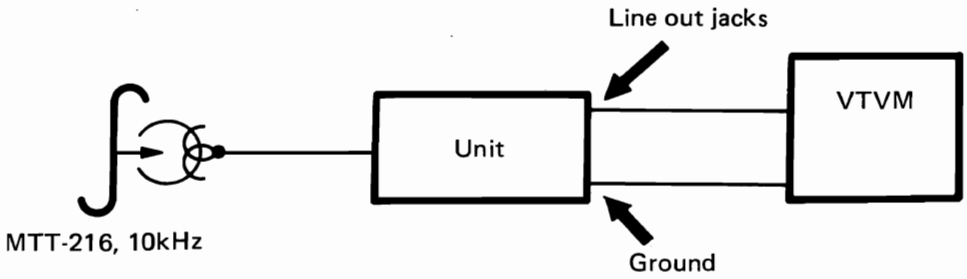
1. Tape speed adjustment
Setting: Playback mode
Connection



Adjustment: Warm up the unit for approximately 30 minutes; then playback test tape MTT-111, 3000 Hz (3150 Hz*) and measure the speed deviation with a frequency counter. If required, adjust the semi-variable resistor on the motor for a reading of $3000\text{Hz}^{+30}_{-10}$ Hz (3150 Hz*). Carry out the measurement at the middle of the tape.

* According to DIN 45 500.

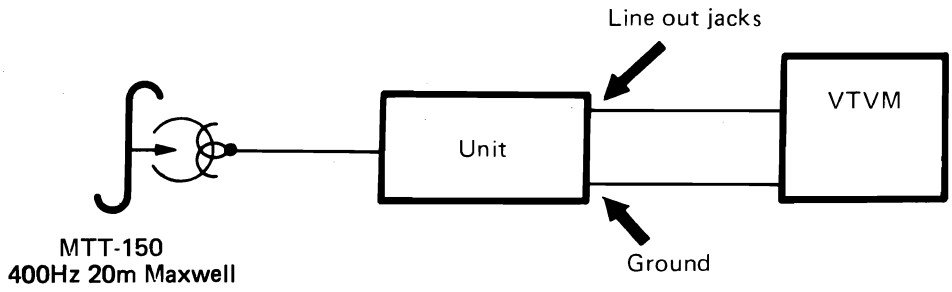
2. Head azimuth adjustment
Setting: Playback mode
Connection:



Adjustment: Playback a test tape (MTT-216, 10 kHz) and adjust the azimuth adjustment screw for maximum output.

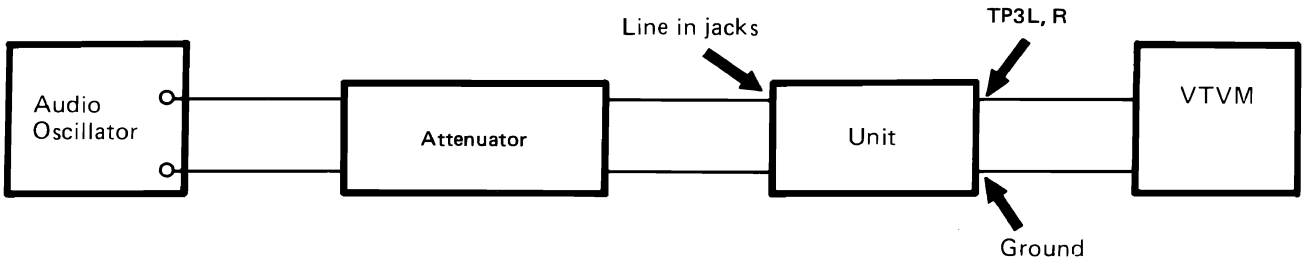
Note: When the maximum values of both channels are different, tune to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be —2 dB or less.

3. Playback output adjustment
Setting: Playback mode
Connection:



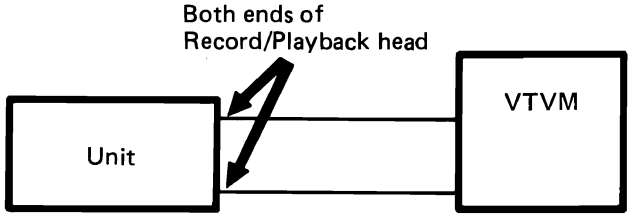
Adjustment: Playback a Dolby calibration tape (MTT-150, 400 Hz 20 m Maxwell) and adjust RT1L, R so that the voltage of Line out jack becomes 0.775V (0 dBm).

4. Adjusting the digital peak meter
Setting: Recording mode
Connection:



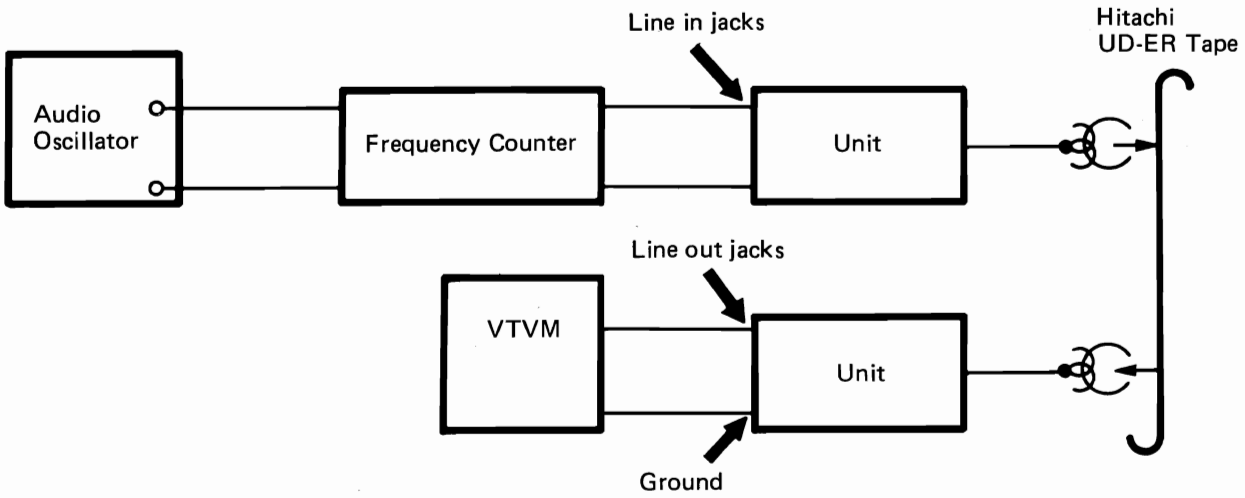
Adjustment:
1) Warm up the unit for approximately 30 minutes.
2) Set the unit to the recording mode. Apply a 1 kHz signal to the LINE IN jacks and adjust the input so that the output at TP3L, R is −3 dBm.
   * Adjust the following in this mode.
3) Adjust MVR1L, R so that the level indicator lamp (−20 dB) of the digital FL peak meter lights when the output of the TP3L, R is −16 dBm.
4) Adjust MVR1L, R so that the level indicator lamp (−20 dB) of the digital FL peak meter goes off when the output of the TP3L, R is −17 dBm.
5) Adjust MVR2L, R so that the level indicator lamp (0 dB) of the digital FL peak meter lights when the output of the TP3L, R is −3 dBm.
6) Repeat adjustment items 3) to 5) a few times.

5. Bias current adjustment
Setting: Recording mode
Connection:



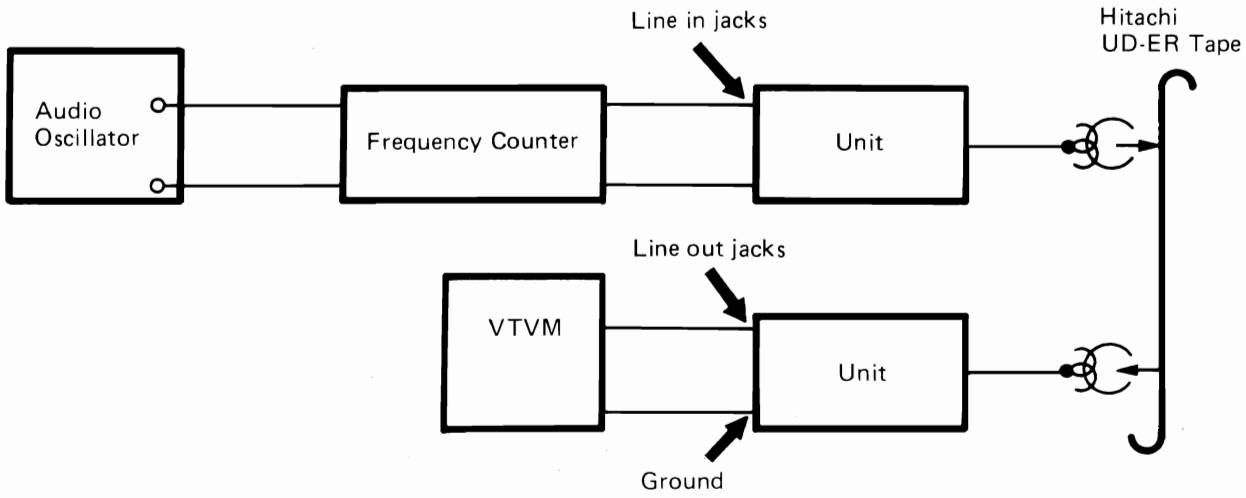
Adjustment: Set the record mode. Adjust RT5L, R so that the bias voltage of 12V is applied to the both ends of Record/Playback head.

6. Record/playback output, frequency characteristics adjustment
Setting: Recording/playback mode
Connection:



Adjustment: Set the unit to the recording mode. Apply a 1.25 kHz signal to the LINE IN jacks and adjust the input so that the output of LINE OUT jack becomes 0 dB. Next, record 1.25 kHz and 12.5 kHz signals at the level of 0 dB–20dB. Playback the recorded tape and adjust RT5L, R for an output difference within ±1.0 dB.

7. Record/playback output adjustment
Setting: Recording/playback mode
Connection:

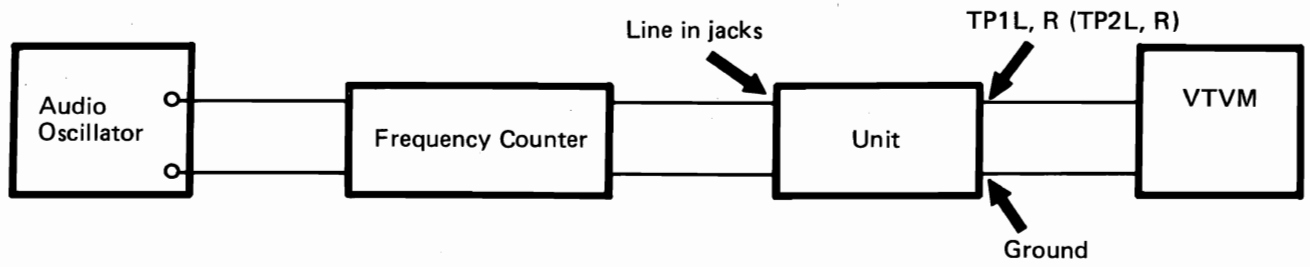


Adjustment: Record a signal of 1 kHz, 0 dB on a Hitachi UD-ER tape. Playback the recorded tape and adjust RT2L, R for a playback output of 0 dB ± 0.5 dB.

8. Dolby NR adjustment

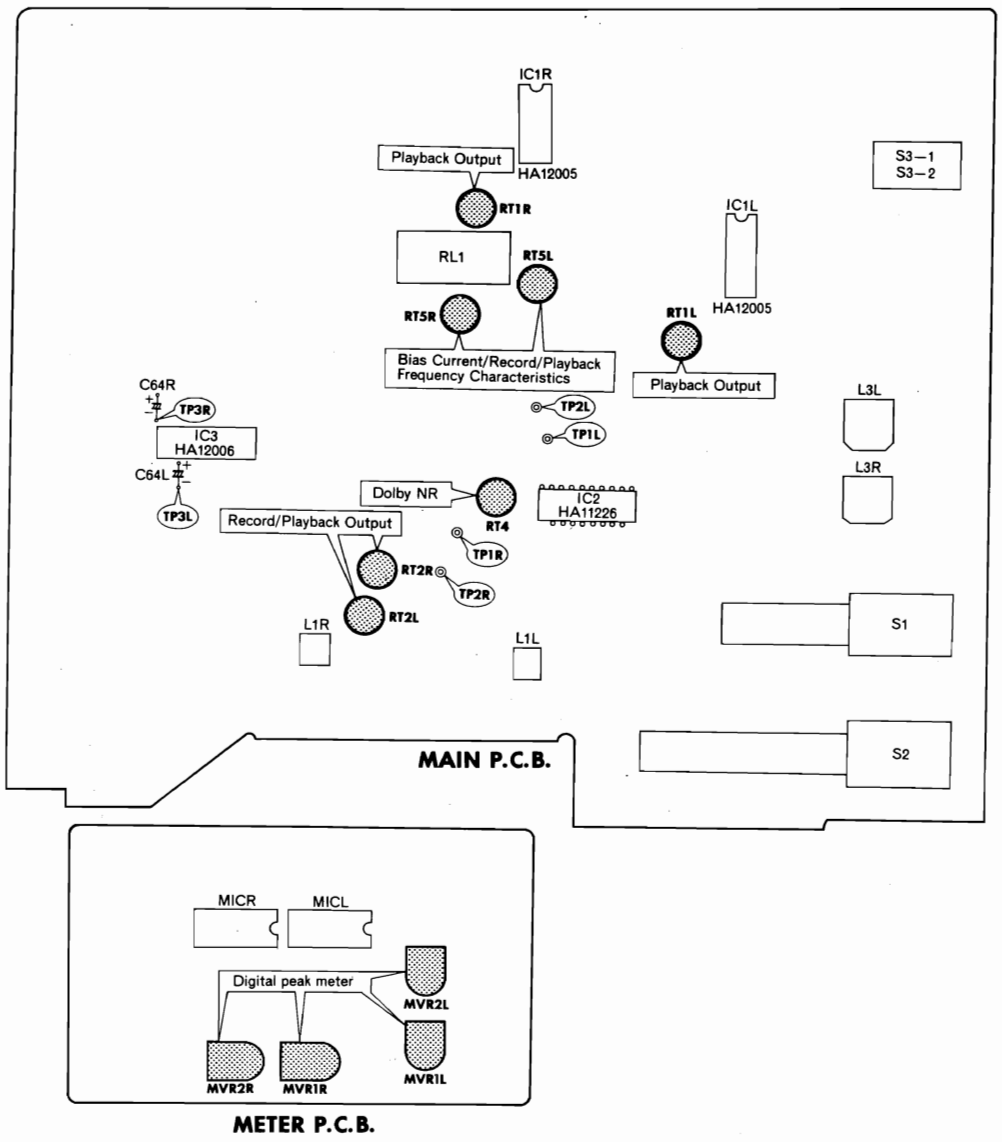
Setting: Recording mode

Connection:



Adjustment: Set the record mode. Feed in a 5 kHz signal to the Line in jacks and adjust the input so that the voltage of TP1L, R becomes −30.4 dBm±0.1 dB. Next, put the Dolby NR switch ON and adjust RT4 so that the voltage of TP2L, R becomes −22.4 dBm ± 0.1 dB.

Adjustment Parts Location



LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication	
Motor shaft bearing	Oil
Capstan shaft bearing	
Pressure roller bearing	

DESCRIPTION OF NEW MECHANISM

In this chassis, electrical parts including motor, solenoid, etc. are operated by the mode control circuit.;

Electrical parts	Mode				
	PLAY	REW	FF	PAUSE	STOP
Head plate solenoid	O	X	X	X	X
Brake solenoid	X	O	O	X	X
Reel drive motor	Clockwise rotation	Clockwise rotation	Counterclockwise rotation	X	X
Capstan drive motor	O	O	O	O	O

O shows operation mode.
X shows stop mode.
Rotation direction of the reel drive motor is that viewed from the motor pulley side.

PLAYBACK mode

When the PLAY button is pressed, the head plate solenoid operates by means of the signal from the operation control IC. P arms (A), (B) shown in Fig. B and the head plate interlocked with them shown in Fig. C slide in the direction of the arrow. By this, the next operations (1)—(3) are performed, the capstan revolves simultaneously when the power is turned ON and the reel disc drive motor revolves clockwise simultaneously when the head plate solenoid starts, so the take-up operation starts.

1) The brake plate is pushed up and the brake is released.
2) The pressure roller is compressed against the capstan.
3) The take-up arm ass'y turns clockwise and is compressed against the take-up reel.

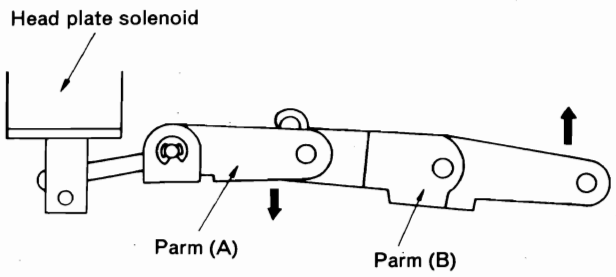


Fig. B

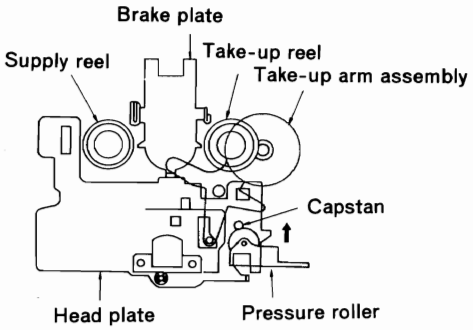


Fig. C

REW/FF mode

With the FF or REW button pressed, the FF/REW solenoid and the reel disc drive motor (FF : Counterclockwise, REW : Clockwise) operates by means of the operation control IC.

When the FF/REW solenoid operates, the FF/REW arm (A) and the brake operation arm move in the direction of the arrow. This compresses the friction idler shown in Figs. E and F against the idler and at the same time, the brake operation arm pushes up the brake plate to release braking. By compression of the friction idler and the idler shown in Fig. E, the revolving force of the idler is transmitted to the take-up reel during FF, and to the supply reel during REW.

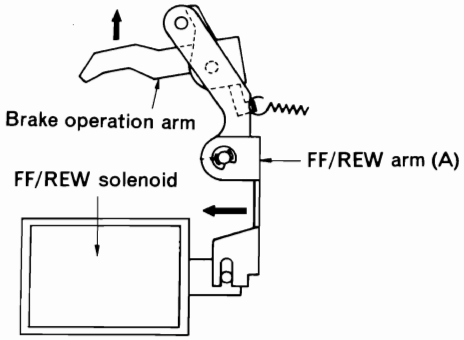


Fig. D

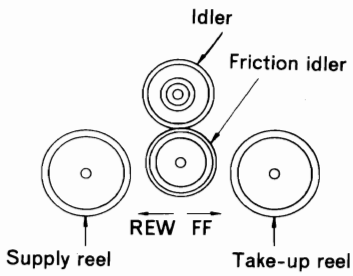


Fig. E

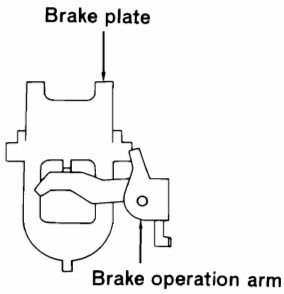


Fig. F

Inspection of mechanism

	Check item		Reference value	Remarks
1.	Pressure of pressure roller		P_1 : 350±60 gr P_2 : 195±34 gr	Note 1
2.	Pressure of take-up roller		150±50 gr	Note 2
3.	Turntable torque	FF	—	Note 3
		Rewind	—	
4.	Torque	Take-up	35 to 65 gr-cm	Measure in Playback mode
		FF	65 to 120 gr-cm	Measure in Fast Forward mode
		Rewind	65 to 120 gr-cm	Measure in Rewind mode
5.	Back tension	Take-up side	Less than 6 gr-cm	—
		Supply side	1 to 3 gr-cm	—
6.	Brake torque		More than 15 gr-cm	—
7.	Flywheel thrust gap		0.05 to 0.5 mm	—

Note 1 : Pressure of pressure roller

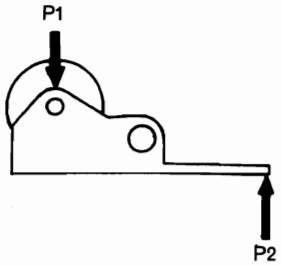


Fig. G

Note 2 : Pressure of take-up roller

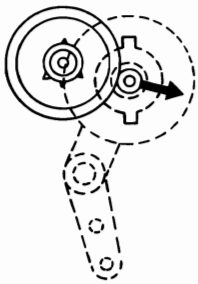


Fig. H

Note 3 : Turntable torque

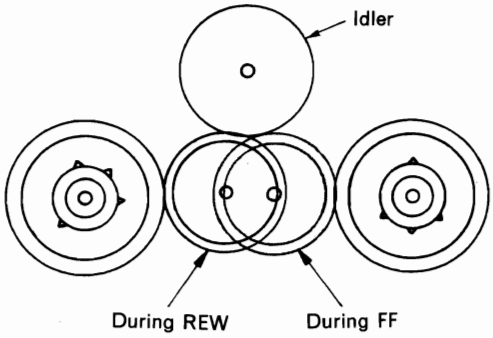


Fig. I

* The friction idler and reel disc should not slip when the reel disc stops.

Installation adjustment of head plate solenoid

As shown in Fig. J, push up the head plate fully in the direction of arrow A. Push up the head plate solenoid fully in the direction of arrow B while pulling the iron core of the head plate solenoid and fix it using 2 adjusting screws.

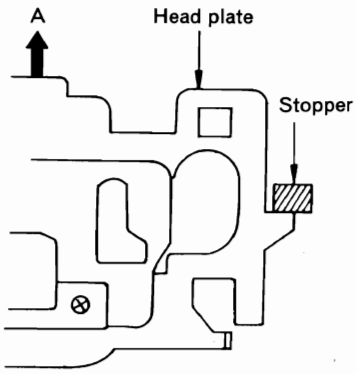


Fig. J

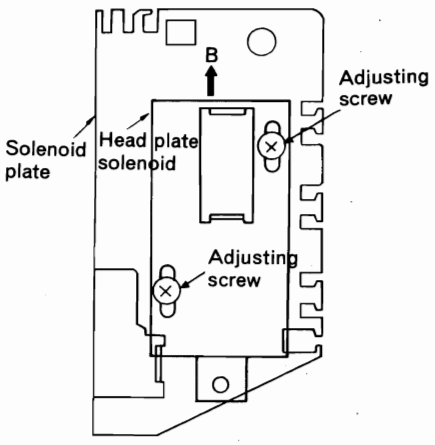
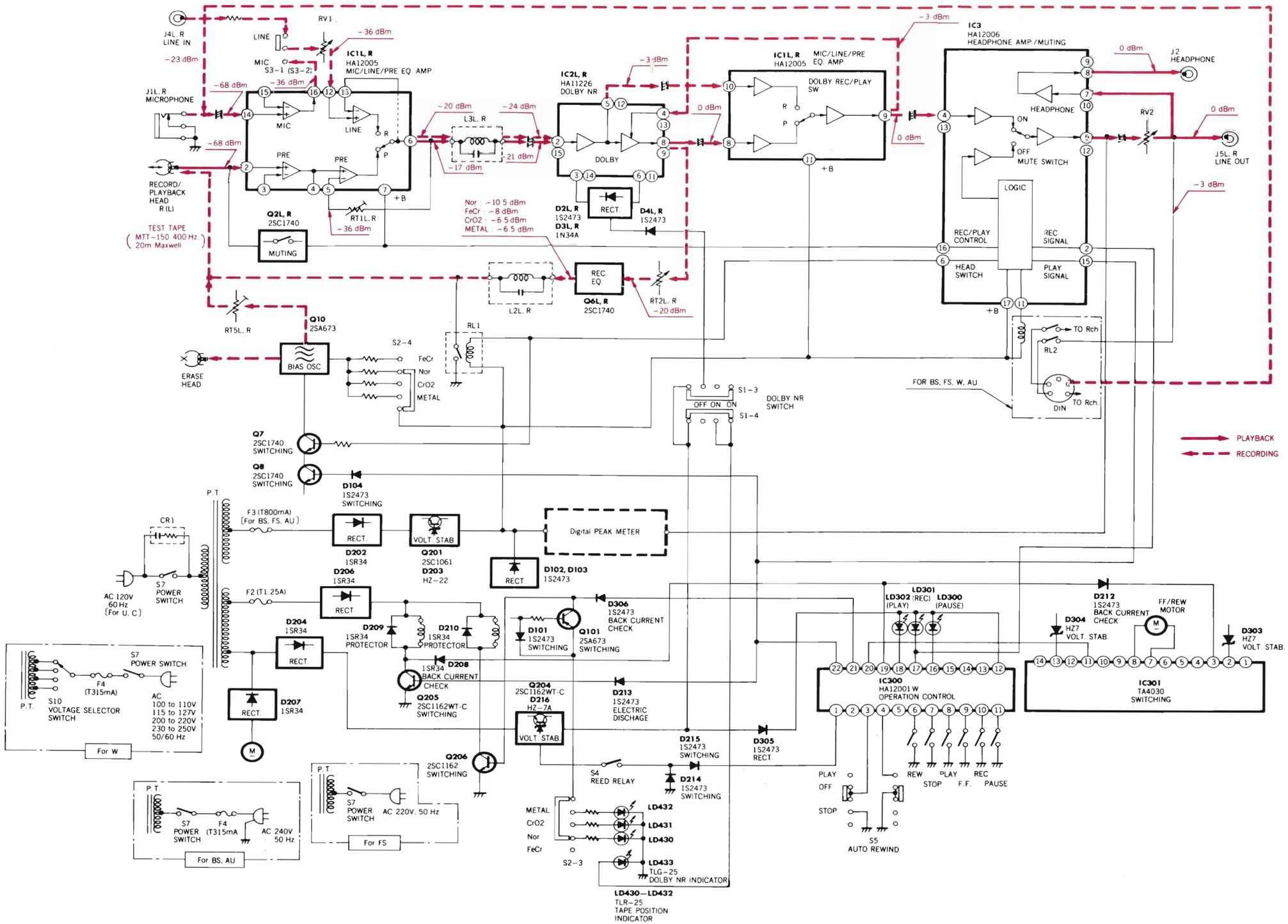
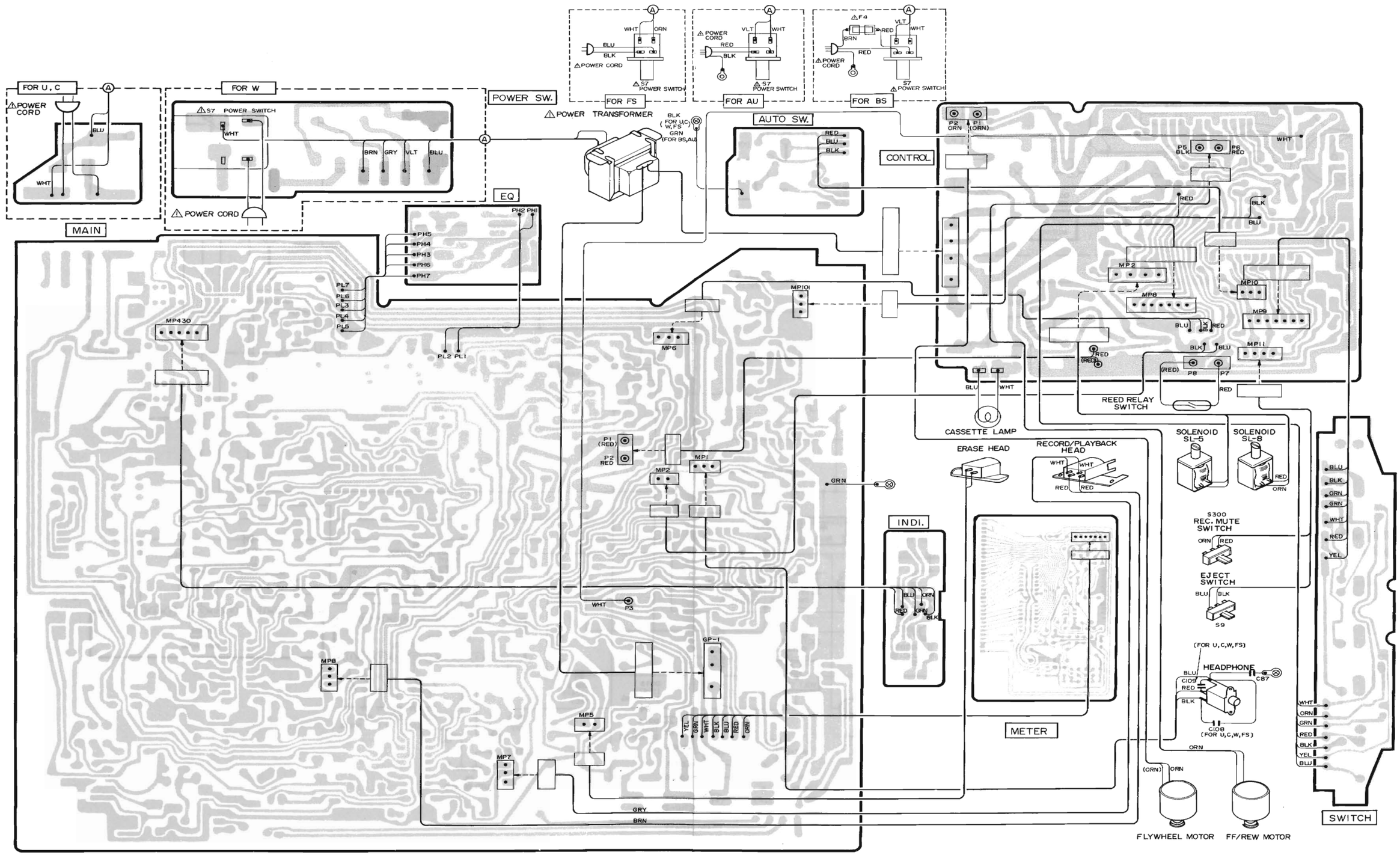


Fig. K

BLOCK DIAGRAM

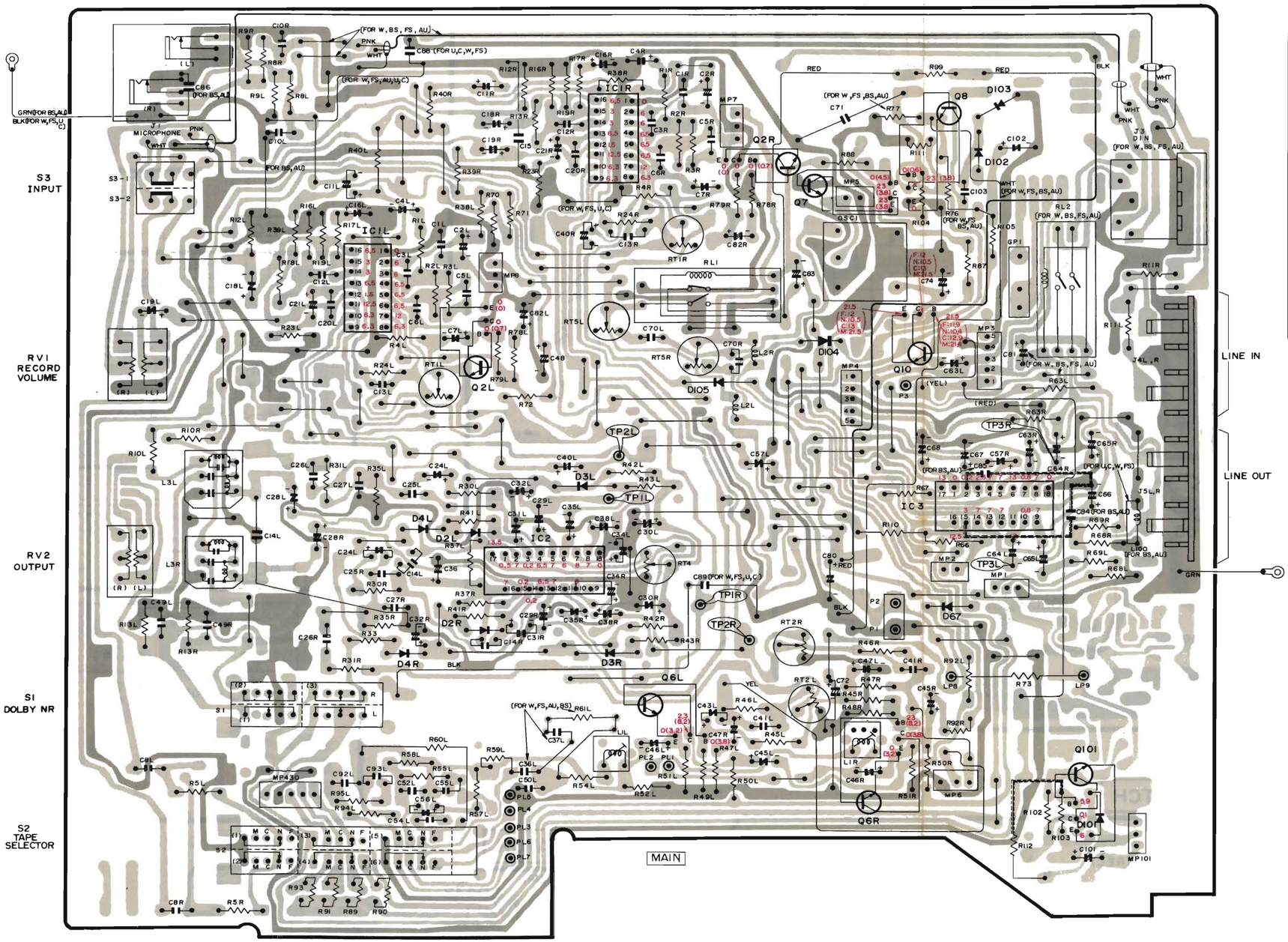


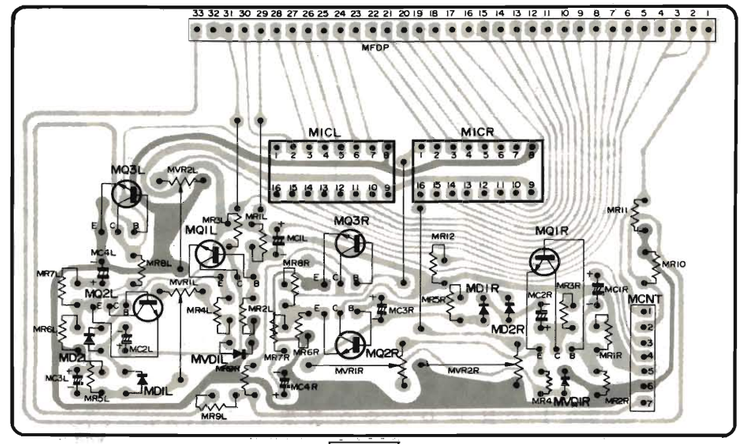
WIRING DIAGRAM



CIRCUIT BOARD DIAGRAM

: Ground : Signal, +B

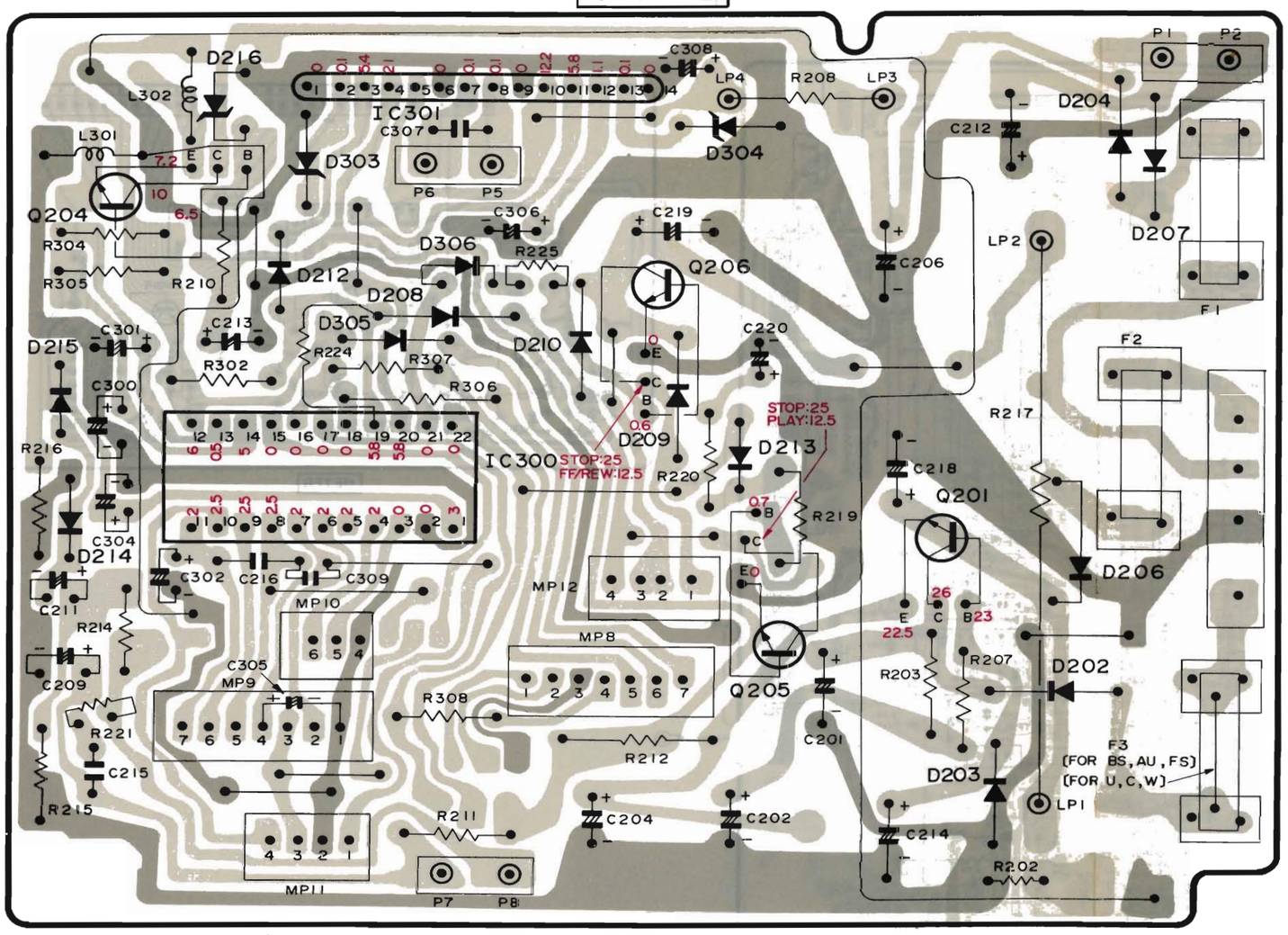




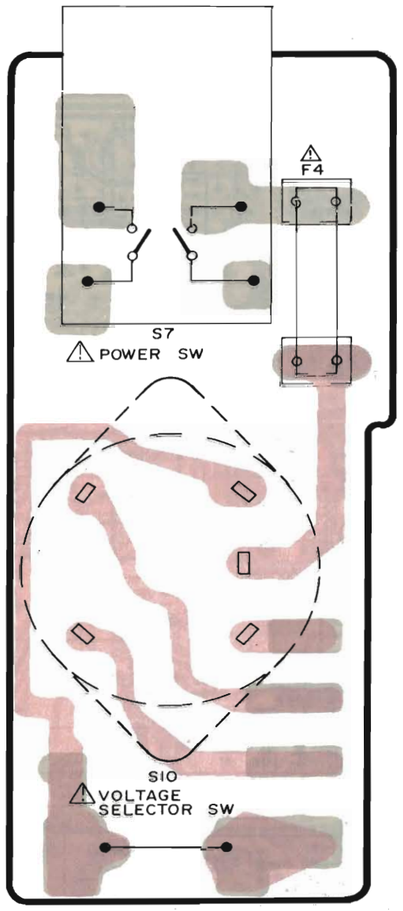
CIRCUIT BOARD DIAGRAM

: Ground : Signal, +B

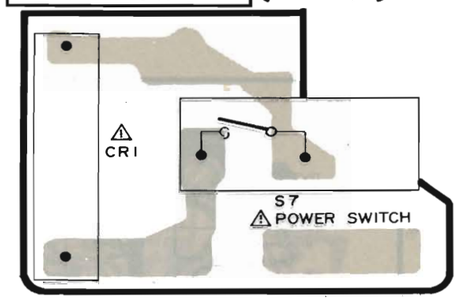
CONTROL



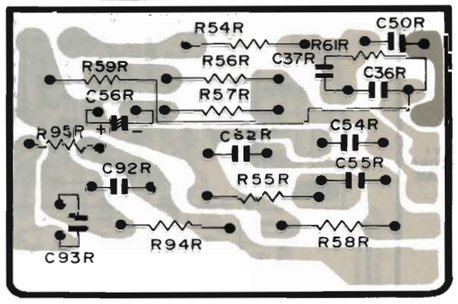
POWER (FOW W)



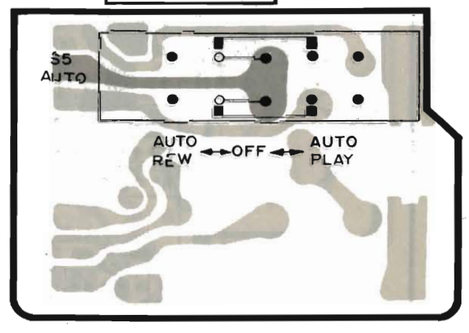
POWER SWITCH (FOR U,C)



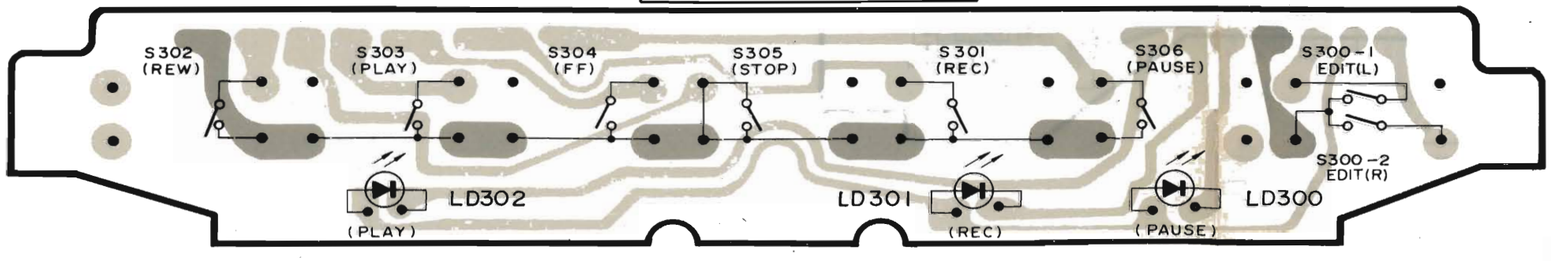
EQ.



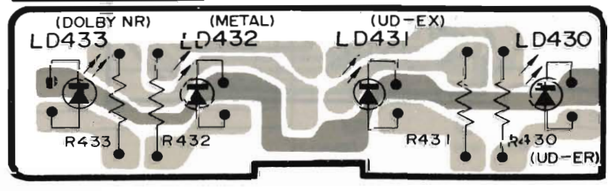
AUTO SW.



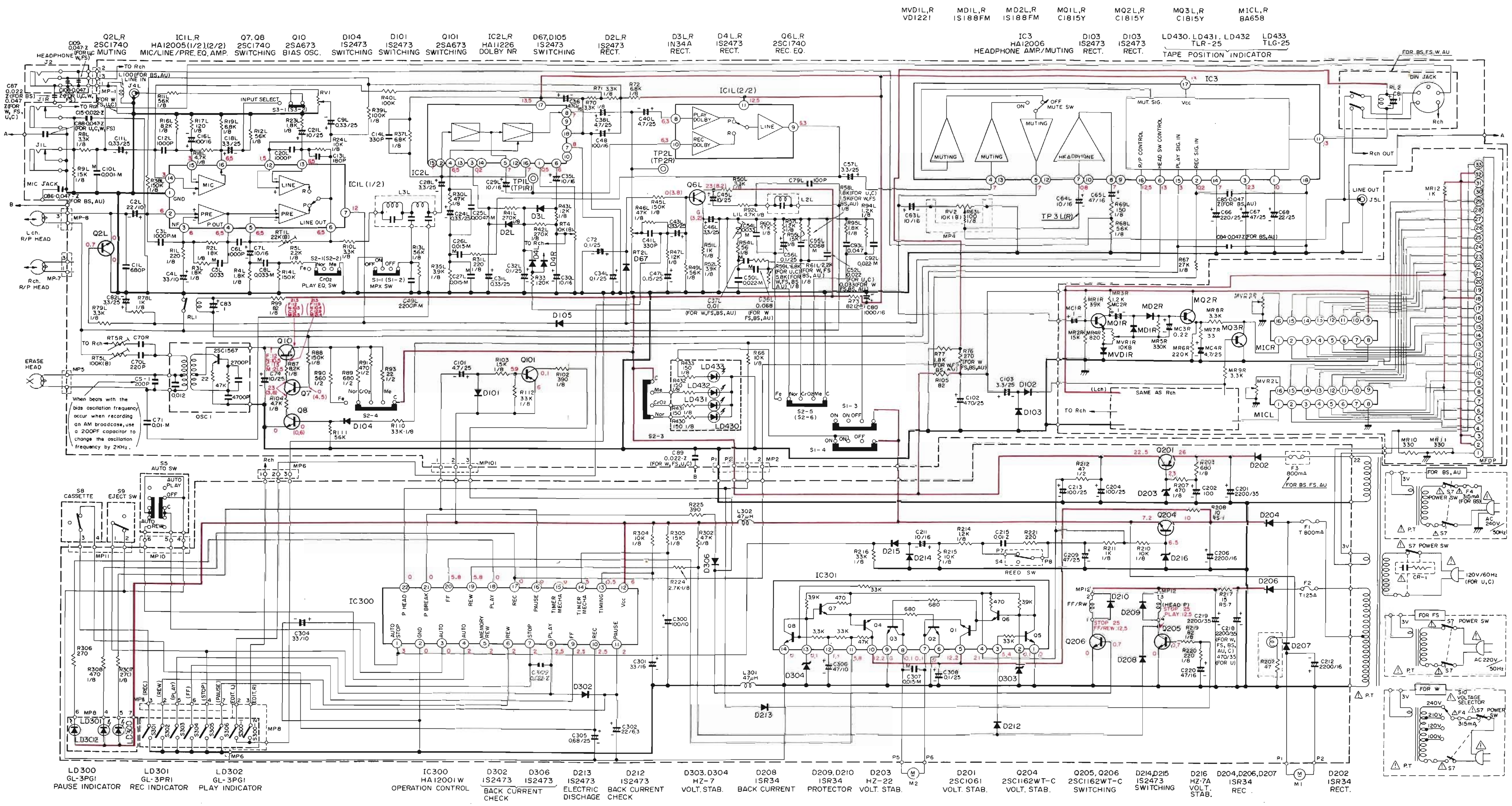
OPERATION SWITCH



INDICATOR



SCHEMATIC DIAGRAM



Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

R101 150-RS·1·K

Circuit No.	
Value	No indicated Ω(Ohm) M : 1000 kΩ
Tolerance	No indicated ±5% K : ±10% M : ±20%
Wattage	No indicated ¼W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

C101 0.001·M
C102 0.1/16

Circuit No.		
Value	No indicated μF P : PF	
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, −20% D : ±0.5pF C : ±0.25pF	
Sort	(symbol)	Ceramic
	(symbol)	Electrolitic
	M (symbol)	Mylar
	P (symbol)	Polyester
	S (symbol)	Styrol
Voltage	No indicated 50WV	

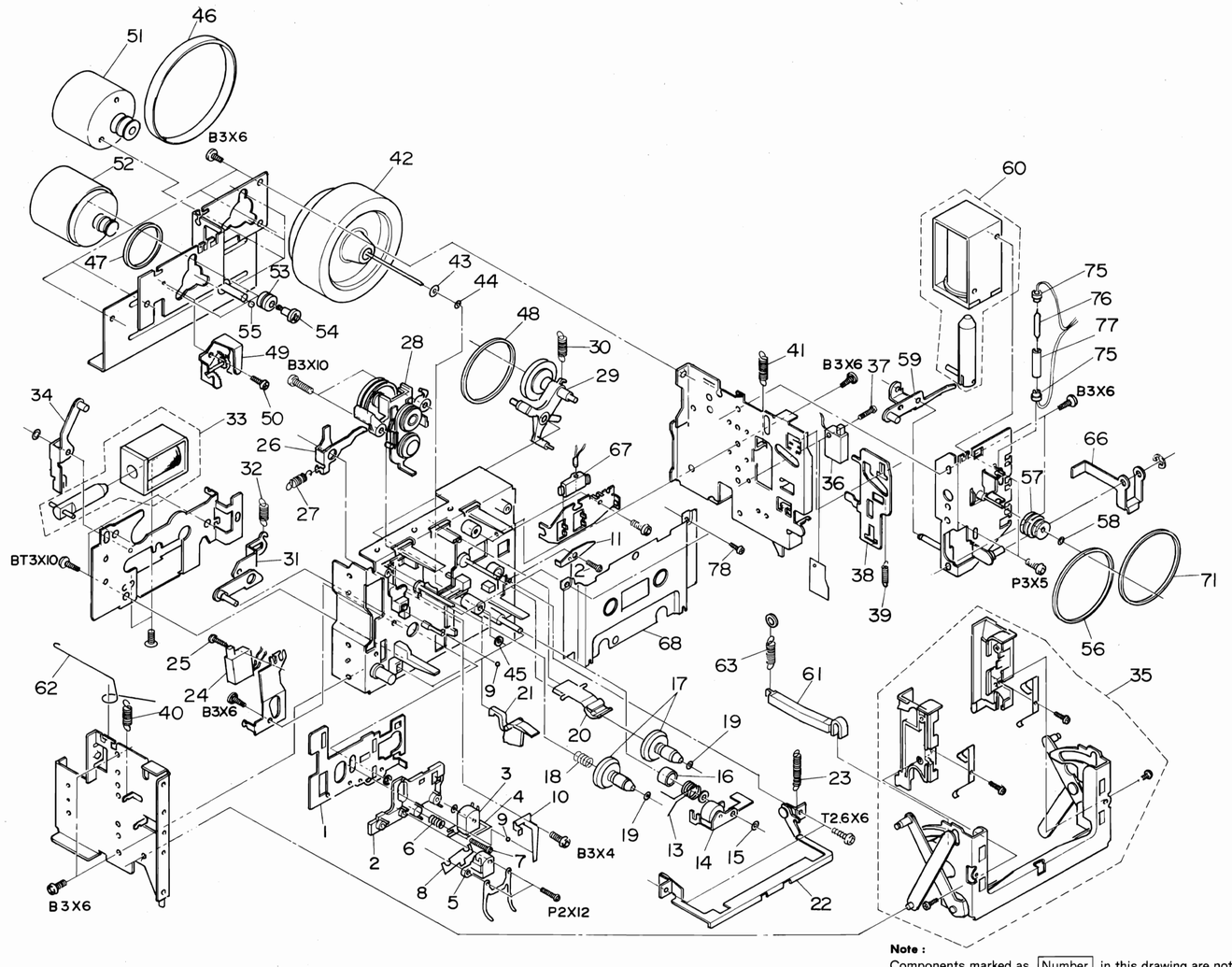
3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with ※, use specified ones stated on parts list since required temperature characteristics.

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION
		CAPACITORS
C 2LR	0256402	TANTALUM ELECTROLYTIC 22MF 10V
C 4LR	0256404	TANTALUM ELECTROLYTIC 33MF 10V
		RESISTORS
⚠ CR1	0219902	CR PACK 120 OHM 0.0033MF 450V (For U)
⚠ CR1	0219907	CR PACK (For C)
R 73	0169056	WINDING 82 OHM+-5% 2W
RT 1LR	5007187	SEMI VARIABLE 22K OHM
RT 2LR	5007186	SEMI VARIABLE 10K OHM
RT 4	5007186	SEMI VARIABLE 10K OHM
RT 5LR	5007189	SEMI VARIABLE 100K OHM
RV 1	5000556	VARIABLE 20K OHM(A)
RV 2	5000145	VARIABLE 10K OHM(B)
R217	0112963	OXIDE METAL FILM 15 OHM+-10% 7W
		SEMI-CONDUCTORS
D 2LR	5330572	DIODE SILICON 1S2473HC 100M
D 3LR	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW
D 4LR	5330572	DIODE SILICON 1S2473HC 100M
D67	5330574	DIODE 1S2473
D101	5330574	DIODE 1S2473
D102	5330572	DIODE SILICON 1S2473HC 100M
D103	5330574	DIODE 1S2473
D104	5330572	DIODE SILICON 1S2473HC 100M
D105	5330571	DIODE 1S2473VE
D202	5331241	DIODE 1SR34
D203	5331013	ZENER DIODE HZ22
D204	5331241	DIODE 1SR34
D206-210	5331241	DIODE 1SR34
D212-215	5330572	DIODE SILICON 1S2473HC 100M
D216	5330311	DIODE SILICON HZ7A 1.0M
D302	5330571	DIODE SILICON 1S2473
D303	5330313	DIODE SILICON HZ7C 1.0M
D304	5330313	DIODE SILICON HZ7C 1.0M
D305	5330574	DIODE 1S2473
D306	5330571	DIODE 1S2473VE
MICLR	5359691	IC BA658
IC 1LR	5350881	IC HA12005
IC 2LR	5350561	IC HA 11226
IC 3	5350891	IC HA12006
IC300	5350852	IC HA12001W
IC301	5356981	IC TA4030
LD300	5380242	LED GL 3PG1
LD301	5380241	LED GL 3PR1
LD302	5380242	LED GL 3PG1
LD430	5380371	LED TLR-25
LD431	5380371	LED TLR-25
LD432	5380371	LED TLR-25
LD433	5380372	LED TLG-25

SYMBOL-NO	P-NO	DESCRIPTION
Q 2LR	5321295	TRANSISTOR 2SC1740E
Q 6LR	5321295	TRANSISTOR 2SC1740E
Q 7	5321295	TRANSISTOR 2SC1740E
Q 8	5321295	TRANSISTOR 2SC1740E
Q 10	5320593	TRANSISTOR SILICON 2SA673C 80M
Q101	5320593	TRANSISTOR SILICON 2SA673C 80M
Q201	5320671	TRANSISTOR SILICON 2SC1061B 5M
Q204	5320643	TRANSISTOR SILICON 2SC1162 150M
Q205	5320643	TRANSISTOR SILICON 2SC1162 150M
Q206	5320643	TRANSISTOR SILICON 2SC1162 150M
		TRANSFORMERS
⚠ PT	5212642	POWER (For U)
⚠ PT	5212643	POWER (For C)
⚠ PT	5212644	POWER (For FS)
⚠ PT	5212645	POWER (For BS)
⚠ PT	5212646	POWER (For W)
⚠ PT	5212647	POWER (For AU)
		COILS
L 1LR	5120274	CHOKE
L 2LR	5120562	TRAP
L 3LR	5161661	DOLBY FILTER
L301	5152125	CHOKE 47MICRO H
L302	5152125	CHOKE 47MICRO H
		MISCELLANEOUS
	5310272	FL METER
	5310372	FL METER BLOCK
⚠	5746157	POWER CORD (For W, FS)
⚠	5746291	POWER CORD ASS'Y (For BS)
⚠	5746442	POWER CORD (For U, C)
⚠	5740653	POWER CORD (For AU)
F1	5720175	FUSE 0.8A
F2	5721063	FUSE 1.25AT
F3	5720175	FUSE 0.8A (For FS, BS, AU)
⚠ F4	5720171	FUSE (For W)
⚠ F4	5720171	FUSE (For BS)
J1LR	5674211	MIC JACK
J2	5674221	HEADPHONE JACK
J3	5651141	5P DIN SOCKET (For W, FS, BS, AU)
J4LR	5676082	PIN JACK
J5LR	5676082	PIN JACK
OSC1	5260742	OSCILLATOR BLOCK
PL	5762035	POINTER LAMP
RL1	5641141	REED RELAY
RL2	5641141	REED RELAY (For W, FS, BS, AU)
S 1	5613311	SLIDE ROTARY SWITCH (DOLBY NR)
S 2	5613322	SLIDE ROTALRY SWITCH (TAPE SELECT)

EXPLODED VIEW



Note :
Components marked as [Number] in this drawing are not specified replacement parts.

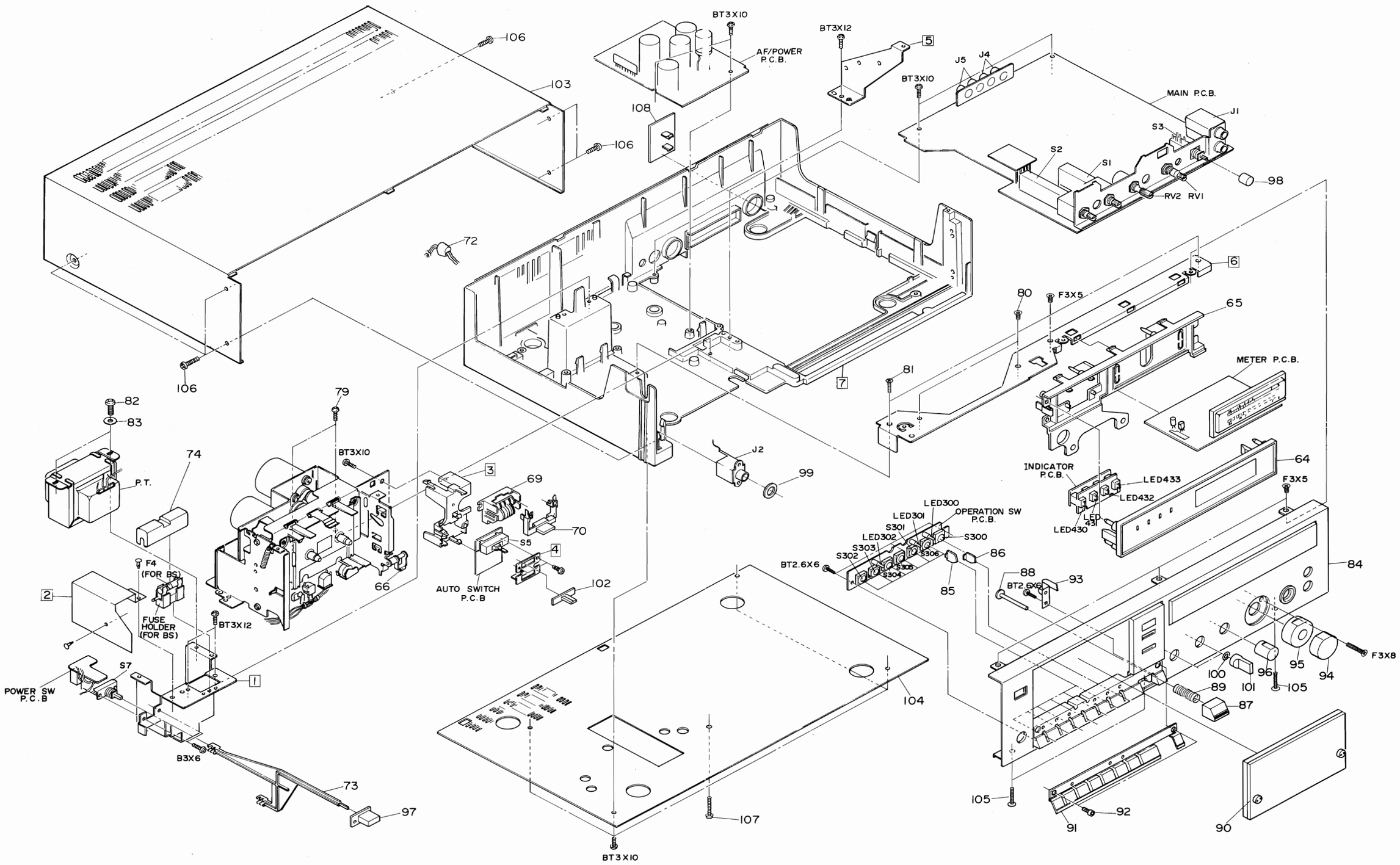
REPLACEMENT PARTS LIST

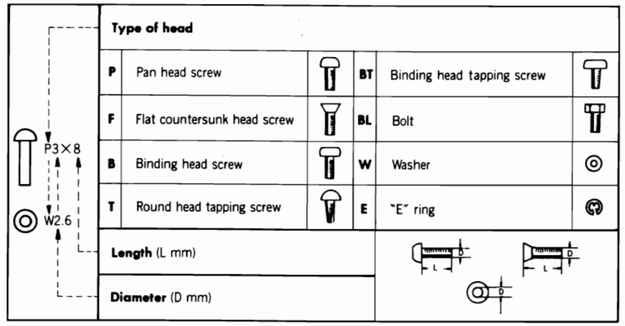
SYMBOL-NO	P-NO	DESCRIPTION
		MISCELLANEOUS
S 3	5634158	PUSH SWITCH (INPUT SELECT)
S 5	5620852	SWITCH-SLIDE (AUTO)
⚠ S 7	5633321	POWER SWITCH (For W)
⚠ S 7	5633482	POWER SWITCH (For U, C)
⚠ S 7	5633541	POWER SWITCH (For FS, BS, AU)
⚠ S 10	5605081	ROTARY SWITCH (For W)
S300	5633371	PUSH SWITCH (EDIT)
S301-306	5633352	PUSH SWITCH (REC, REW, PLAY, F.F., STOP, PAUSE)
		FOR ACCESSORIES
	5894164	PATCH CORD (For U, C, BS, AU)
	5894165	PATCH CORD (For U, C, BS, AU)
	5744843	DIN CORD (For W, FS)
	7740321	HEAD CLEANING STICK
	5662021	SOCKET ADAPTER (For W)
		FOR CASSETTE CHASSIS ASSEMBLY (A)
1	7312092	HEAD PLATE
2	6753182	HEAD BASE
3	5444721	RECORD PLAYBACK HEAD
4	5548351	HEAD TERMINAL P.W.B
5	5445281	ERASE HEAD
6	6321733	HEAD SPRING C
7	7781005	SCREW FOR HEAD MOUNTING
8	7768181	HEAD SPACER
9	0948492	BALL - 2MMD
10	6532991	LEAF SPRING
11	7311982	ERASE STOP PLATE
12	7536872	LOCK LEVER PIN
13	6545232	SPRING
14	6383432	PRESSURE ROLLER ARM ASSEMBLY
15	7778856	POLYESTER WASHER
16	7575252	SPACER
17	6413313	TURNTABLE ASSEMBLY
18	6304031	SPRING
19	7786115	POLYESTER WASHER
20	6752853	CASSETTE HOLDER SPRING
21	6752872	RECORD PREVENTION ARM
22	7312281	CASSETTE UP ARM ASSEMBLY
23	6301795	SPRING
24	5633361	PUSH SWITCH
25	0671310	DT SCREW-2.6MMDX10MM
26	7311952	BRAKE FUNCTION ARM
27	6301022	SPRING
28	6413335	FF.REWIND BASE ASSEMBLY
29	6413343	TAKE UP ARM ASSEMBLY
30	6300982	SPRING
31	7312511	PLAY ARM ASSEMBLY
32	6302375	SPRING
33	5642512	SOLENOID ASSEMBLY (F.F.REWIND)
34	7312103	FF.REWIND ARM ASSEMBLY
35	7312264	CASSETTE HOLDER ASSEMBLY
36	5633361	PUSH SWITCH
37	0671310	DT SCREW-2.6MMDX10MM
38	7312164	EJECT SLIDER
39	6306234	SPRING
40	6322213	SPRING
41	6325084	SPRING
42	6373321	FLYWHEEL ASSEMBLY (R)
43	7772623	SPRING
44	7786626	WASHER
45	7786623	POLY SLIDER WASHER
46	6357147	FLYWHEEL BELT
47	6354702	BELT-29MMD
48	6354703	BELT-41MMD
49	7290501	GOVERNOR
50	0671305	DT SCREW-2.6MMDX5MM
51	5576163	MOTOR ASSEMBLY (PLAY)
52	5576151	MOTOR ASSEMBLY (F.F.REWIND)
53	6576084	RUBBER PLATE
54	7539002	SCREW FOR MOTOR MOUNTING
55	7768682	THRUST SUPPORT
56	6354792	COUNTER BELT
57	6346282	COUNTER PULLEY ASSEMBLY
58	7786115	POLYESTER WASHER
59	7312113	PLAY ARM ASSEMBLY
60	5642396	SOLENOID ASSEMBLY (PLAY)
61	6753012	EJECT ARM ASSEMBLY
62	6545265	DAMPER WIRE
63	6540011	DAMPER SPRING

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASSETTE CHASSIS ASSEMBLY (B)
64	6222731	FILTER PANEL ASSEMBLY
65	6754771	METER HOLDER
66	7312341	EJECT LEVER
67	6574321	LAMP HOLDER
68	6631383	CASSETTE METAL ASSEMBLY
69	5559234	COUNTER
70	6753282	COUNTER BUTTON
71	6354633	COUNTER BELT
⚠ 72	6794081	BUSHING (For U, C)
⚠	6794141	BUSHING (For W, FS)
⚠	6794161	BUSHING (For BS)
⚠	6711351	BUSHING (For AU)
73	6753821	SWITCH LEVER
⚠ 74	6742651	FUSE COVER (For BS)
75	6576271	RELAY CAP
76	5641092	REED RELAY
77	7575542	TUBE
78	7780915	BIND TAPPING SCREW-2MMDX5MM
79	8699412	BIND TAPPING SCREW-3MMDX12MM(BLACK)
80	8724406	FLAT SCREW-3MMDX6MM
81	7781581	BT FLAT SCREW-3MMDX10MM
82	8671608	DT SCREW-4MMDX8MM
83	7174533	WASHER
		MISCELLANEOUS
84	6222282	FRONT PANEL ASSEMBLY (For U, C)
	6222283	FRONT PANEL ASSEMBLY (For W, FS, BS, AU)
85	6753071	FUNCTION BUTTON (RAUSE, REC, STOP, F.F., REW, PLAY)
86	6753081	FUNCTION BUTTON (REC MUTE)
87	6051521	EJECT BUTTON
88	6753111	BUTTON PIN
89	6304181	BUTTON SPRING
90	6092036	CASSETTE DOOR ASSEMBLY
91	6671522	FUNCTION METAL
92	7781832	SPECIAL BOLT
93	7451251	EARTH SPRING
94	6287591	KNOB ASSEMBLY (RECORD L)
95	6289181	KNOB ASSEMBLY (RECORD R)
96	6287611	KNOB ASSEMBLY (OUTPUT)
97	6051531	POWER BUTTON
98	6051272	PUSH BUTTON (INPUT SELECT)
99	7787161	WASHER
100	7787394	WASHER
101	6287621	KNOB (TAPE•DOLBY NR)
102	6296701	KNOB (AUTO REWIND)
103	6041601	UPPER COVER (For U, C)
	6040767	UPPER COVER (For W, FS, BS, AU)
104	6040753	BOTTOM COVER (For U, C, FS, BS, AU)
	6040754	BOTTOM COVER (For W)
105	7781583	BT FLAT SCREW-3MMDX14MM
106	8699610	BT BIND SCREW-4MMDX10MM (For U, C)
	7781731	BT BIND SCREW-4MMDX10MM (For W, FS, BS, AU)
107	8691425	BT BIND SCREW-3MMDX25MM
108	6754292	DIN CAP (For U, C)

EXPLODED VIEW





When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

HITACHI

HITACHI SALES CORPORATION OF AMERICA
Eastern Regional Office
1200 Wall Street West, Lyndhurst, New Jersey 07071
Tel. 201-935-8980
Mid-Western Regional Office
1400 Morse Ave., Elk Grove Village, Ill. 60007
Tel. 312-593-1550
Southern Regional Office
510 Plaza Drive College Park, Georgia 30349
Tel. 404-763-0360
Western Regional Office
401 West Artesia Boulevard, Compton, California 90220
Tel. 213-537-8383

HITACHI SALES CORPORATION OF HAWAII, INC
743-G Waiakamilo Rd., Honolulu, Hawaii 96817
Tel. 808-841-0431

HITACHI SALES CORP. OF CANADA Ltd.
3300 Trans Canada Highway Pointe Claire, Quebec, H9R1B1, Canada
Tel. 514-697-9150

HITACHI SALES EUROPA GmbH
2 Hamburg 54, Kleine Bahnstraße 8, West Germany
Tel. 850 60 71-75
HITACHI SALES (U.K.) Ltd.
Hitachi House, Station Road, Hayes, Middlesex UB3 4DR, England
Tel. 01-848-8787 (Service Centre : 01-848-3551)
HITACHI SALES SCANDINAVIA AB
Rissneleden 8, Sundbyberg, Box 7138, S-172-07 Sundbyberg 7, Sweden
Tel. 08-98 52 80
HITACHI SALES NORWAY A/S
Oerebekk 1620 Gressvik P.O. Box 46 N-1601 Fredrikstad, Norway
Tel. 032-28050
SUOMEN HITACHI OY
Box 151, SF-15100 Lahti 10, Finland
Tel. Lahti 44 241
HITACHI SALES A/S
Kuldyssen 13, DK-2630 Taastrup, Denmark
Tel. 02-999200
HITACHI SALES A.G.
5600 Lenzburg, Switzerland
Tel. 064-513621
HITACHI-FRANCE (Radio-Télévision Electro-Ménager) S.A.
9, Boulevard Ney 75018, Paris, France
Tel. 201-25-00
HITACHI SALES WARENHANDELS GMBH
A-1180/Wien, Kreuzgasse 27
Tel. (0043222) 439367/8

HITACHI SALES AUSTRALIA Pty Ltd.
153 Keys Road, Moorabbin, Victoria 3189 Australia
Tel. 95-8722

HITACHI Ltd. TOKYO JAPAN
Head Office : 5-1, 1-chome, Marunouchi, Chiyoda-ku, Tokyo
Tel. Tokyo (212) 1111 (80 lines)
Cable Address : "HITACHY" TOKYO
Codes : All Codes Used

Printed in Japan (H.M1)