

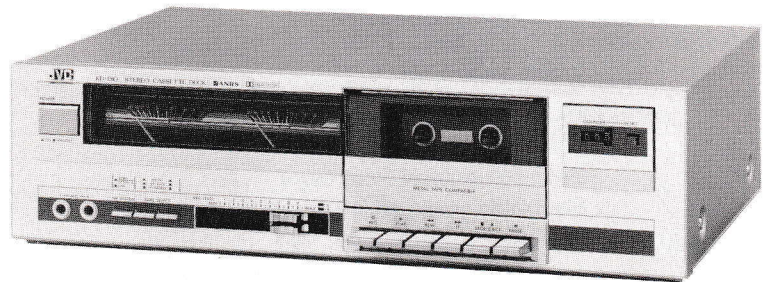
JVC

SERVICE MANUAL

MODEL

KD-D10 A/B/C/E/J/U

STEREO CASSETTE DECK



1✓ 4205 7181

No. 4205
January 1982

Features

- ANRS/Dolby* B NR greatly reduce tape hiss noise.
- Metal tape compatible.
- Newly developed twin VU meters of illumination needles adopted.
- Full auto-stop mechanism.

- Geared and oil-damped cassette door.
- Automatic input select.

* "Dolby" and the double-D symbol are trademark of Dolby Laboratories Licensing Corporation.

Controls and Connections

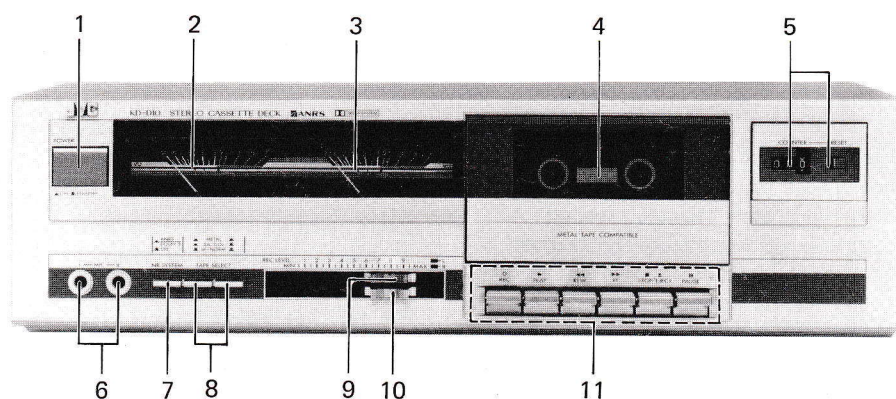


Fig. 1

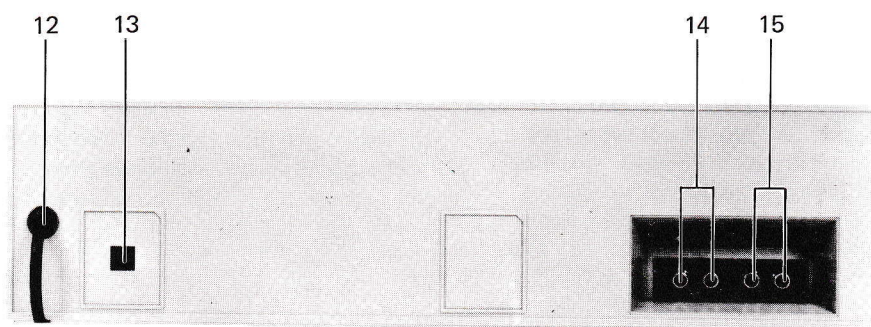


Fig. 2

- | | |
|---|---|
| 1. POWER switch | 11. Cassette operation buttons |
| 2. Left level meter | ○ REC (Record) button |
| 3. Right level meter | ▶ PLAY button |
| 4. Cassette door | ◀◀ REW (Rewind) button |
| 5. Tape counter/Counter reset button | ▶▶ FF (Fast forward) button |
| 6. MIC (Microphone) jacks | ■ STOP/▲ EJECT button |
| 7. NR SYSTEM switch (OFF — $\frac{\text{ANRS}}{\text{DOLBY B}}$) | PAUSE button |
| 8. TAPE SELECT switches ($\frac{\text{SF}}{\text{NORM}}$ — $\frac{\text{SA}}{\text{CrO}_2}$ — METAL) | 12. Power cord |
| 9. REC LEVEL control (left) | 13. Voltage select switch (KD-D10B/E/U) |
| 10. REC LEVEL control (right) | 14. LINE IN (REC) terminals |
| | 15. LINE OUT (PLAY) terminals |

Main Parts Location

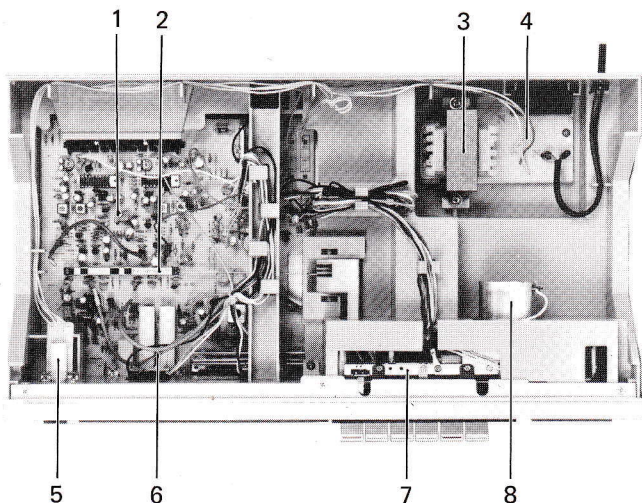


Fig. 3

1. Main P.W. board ass'y
2. Recording/playback switch
3. Power transformer
4. Power supply P.W. board ass'y
5. Power switch
6. Select switches
7. Mechanical assembly
8. Motor

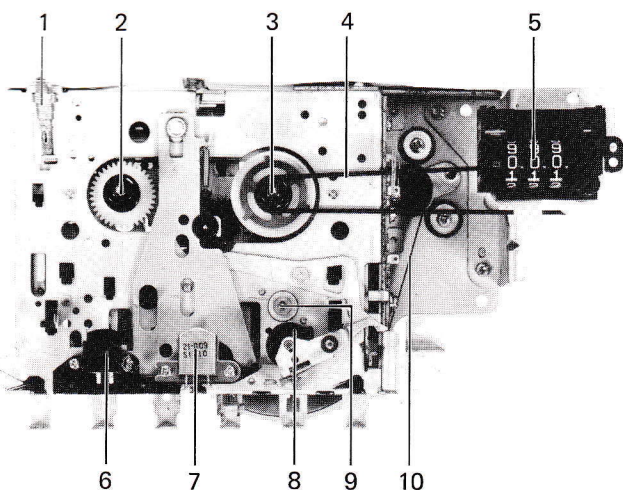


Fig. 4

(Mechanical parts)

1. Recording lever
2. Supply reel disk
3. Take-up reel disk
4. Counter belt
5. Tape counter
6. Erase head
7. REC/PB head
8. Pinch roller arm ass'y
9. Capstan shaft
10. Capstan belt

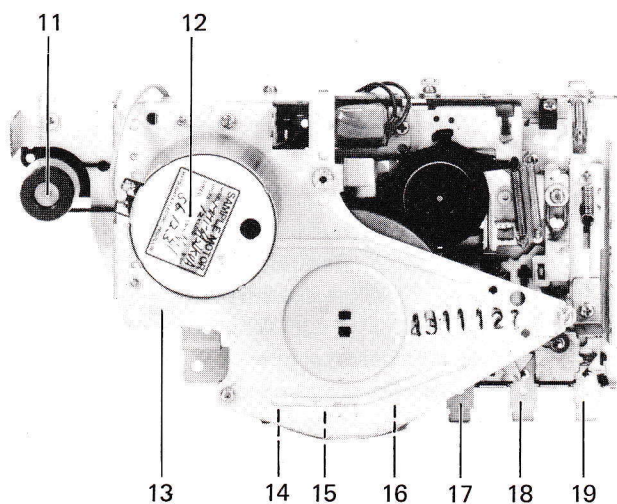


Fig. 5

11. Tape counter pulley
12. Motor
13. Motor & Flywheel bracket
14. Pause bar ass'y
15. Stop/Eject bar ass'y
16. FF bar ass'y
17. REW bar ass'y
18. Play bar ass'y
19. Rec bar ass'y

Removal of Main Parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a deck design aimed mainly at compactness and high performance.

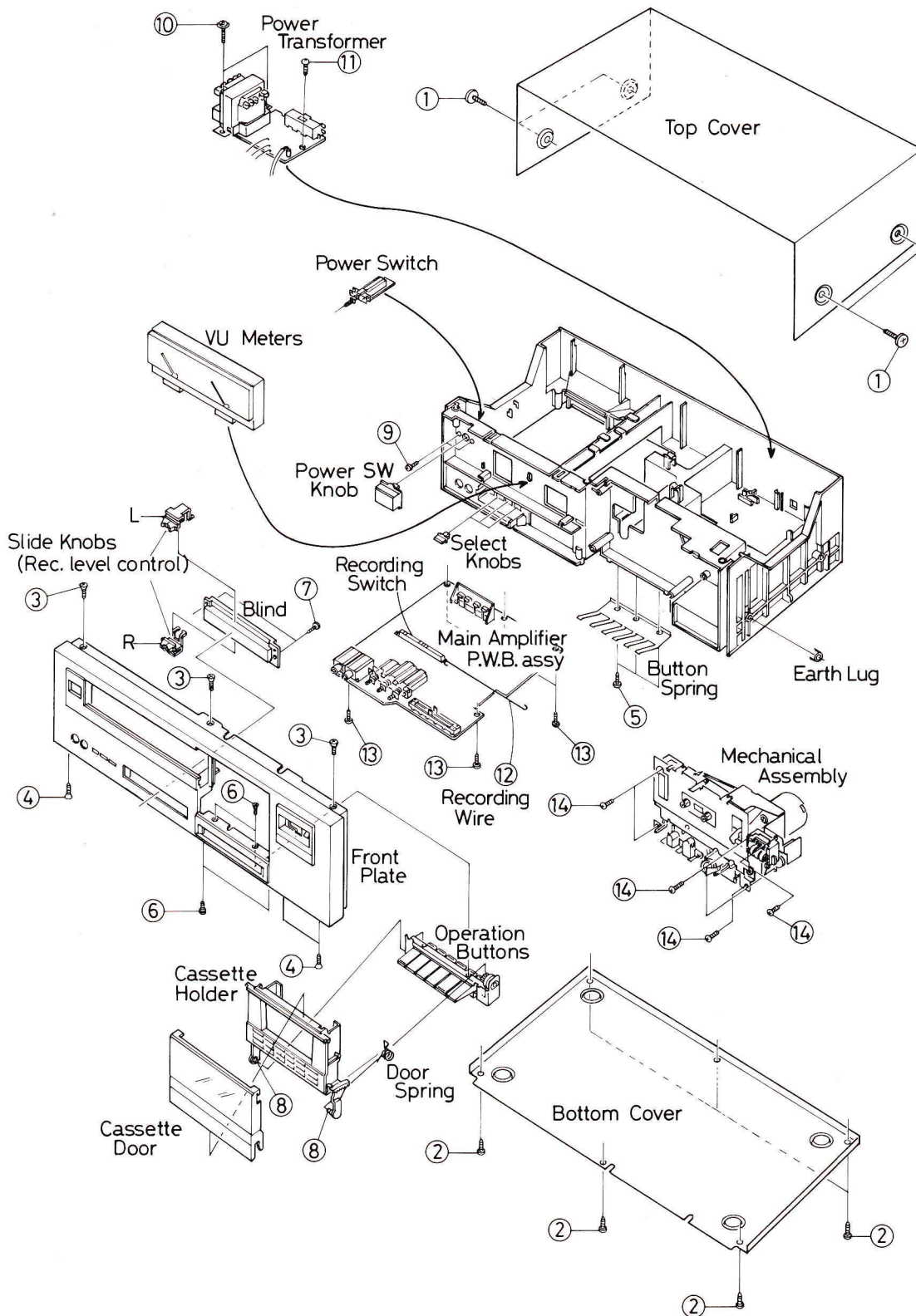


Fig. 6

Enclosure assembly parts

1. **Cassette door**
Push the EJECT button to open the cassette door. Slide off the cassette door upwards to unlock its pawls off both sides.
2. **Top cover**
Remove 4 screws ① (left and right... 2 screws on each). When removing the top cover, an earth lug should be removed.
3. **Bottom cover**
Remove 6 screws ②.
4. **Front plate assembly**
 - 1) Remove 6 screws (3 screws ③ on upper side and 3 screws ④ on bottom side).
 - 2) Remove 3 screws ⑤ fastening the button spring.
5. **Operation buttons assembly**
Remove 4 screws ⑥ fastening the button bracket to the front plate assembly.
6. **Slide knobs (Recording level control)**
Remove 2 screws ⑦ fastening the blind.
7. **Cassette holder**
Remove 2 bosses ⑧ (left and right... 1 pc on each) holding the cassette holder to button bracket holes.

Electrical parts

When removing wire clamp (QHX2075-001), cut off it, and when clamping wires, use a new parts.

1. **Power switch**
 - 1) Pull off the power switch knob forward.
 - 2) Remove 2 screws ⑨ fastening the power switch.
2. **Power transformer with power supply P.W.B. assembly**
 - 1) Remove 2 screws ⑩ fastening the power transformer.
 - 2) Remove a screw ⑪ fastening the power supply P.W. board.
3. **Main amplifier P.W.B. assembly**
 - 1) Pull off 3 select knobs forward.
 - 2) Remove the recording wire ⑫ from the recording switch.
 - 3) Remove 5 screws ⑬ fastening the main amplifier P.W. board assembly.
 - 4) Remove 2 screws fastening the switch ass'y on the main amp P.W. board.

Mechanical assembly

Remove 6 screws ⑭ fastening the mechanical ass'y on the front side.

Mechanical parts (Refer to Fig. 9)

1. **REC/PB head**
Remove a screw ①.
Work loose a screw ② for adjustment.
2. **Erase head**
Remove a screw ③.
Remove a screw ④ for adjustment.
3. **Pinch roller arm ass'y**
Remove a special washer ⑤ holding its assembly.
Pull it off from the shaft.
4. **Holder plate (Fig. 7)**
Remove 4 screws fastening the holder plate.

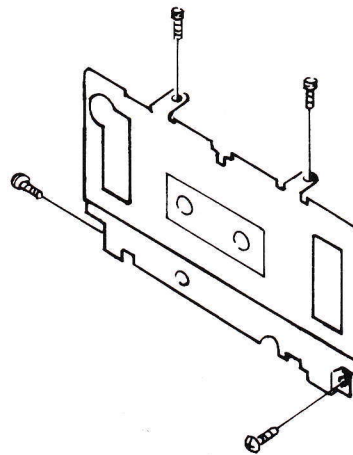


Fig. 7

5. **Supply reel disc ass'y**
Pull out the reel disc stopper ⑥ and remove its disc from the shaft.
6. **Take-up reel disc**
Pull out the reel disc stopper ⑦ and remove the counter belt, pull out its disc from the shaft.

Note: 1) Remove the reel disc stoppers with a piece of sheet metal inserted between the reel disc and stopper, when assembling the reel disc, the stopper needs a new parts (the stopper cannot be used again).
2) Be careful not to stain the counter belt.

7. Motor

- 1) Remove the main belt and RF belt.
- 2) Remove 2 screws (8).
- 3) Slide off the motor in the direction of the arrow mark. (Screw (9) is no removed.)
- 4) Remove 3 screws and 3 rubbers fastening the motor.

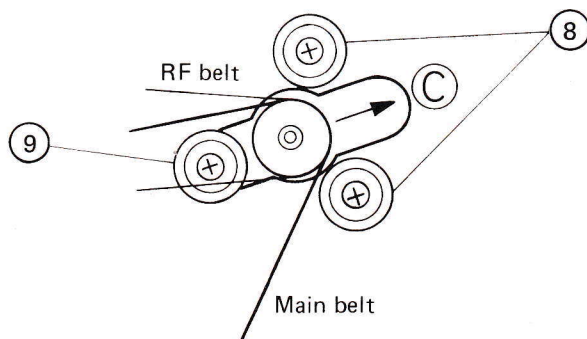


Fig. 8

8. Flywheel assembly

- 1) Remove 4 screws fastening the flywheel bracket (with the switch and counter assembly).
- 2) Remove the main belt.
- 3) Pull off the flywheel to rear side. (When replacing the flywheel, be sure to employ the washer for oil cutting.)

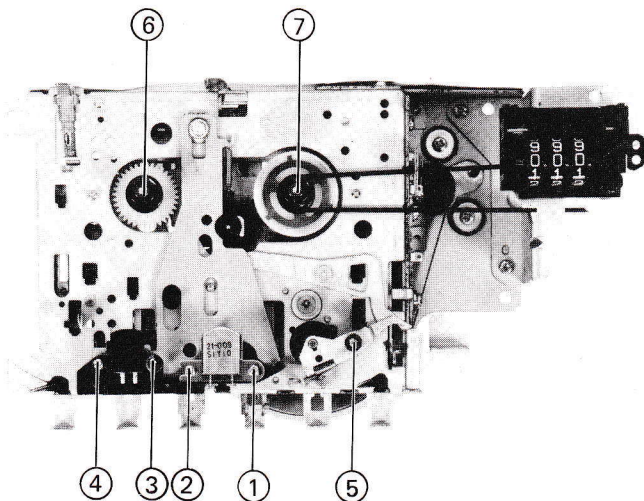


Fig. 9

Integrand Circuit

IC101, 201 AN7362N ANRS & Super ANRS

Block diagram

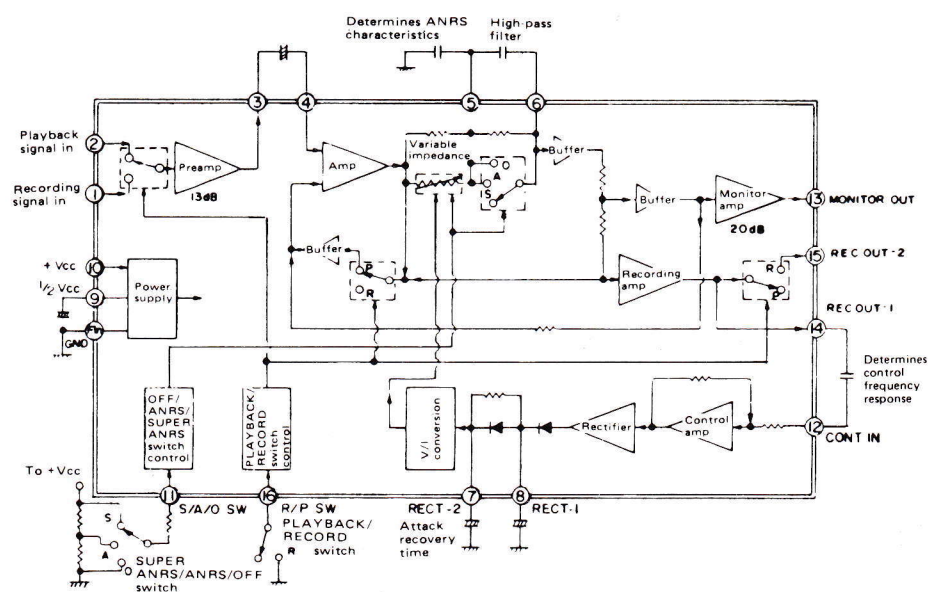


Fig. 10

Block Diagram

— Recording system —

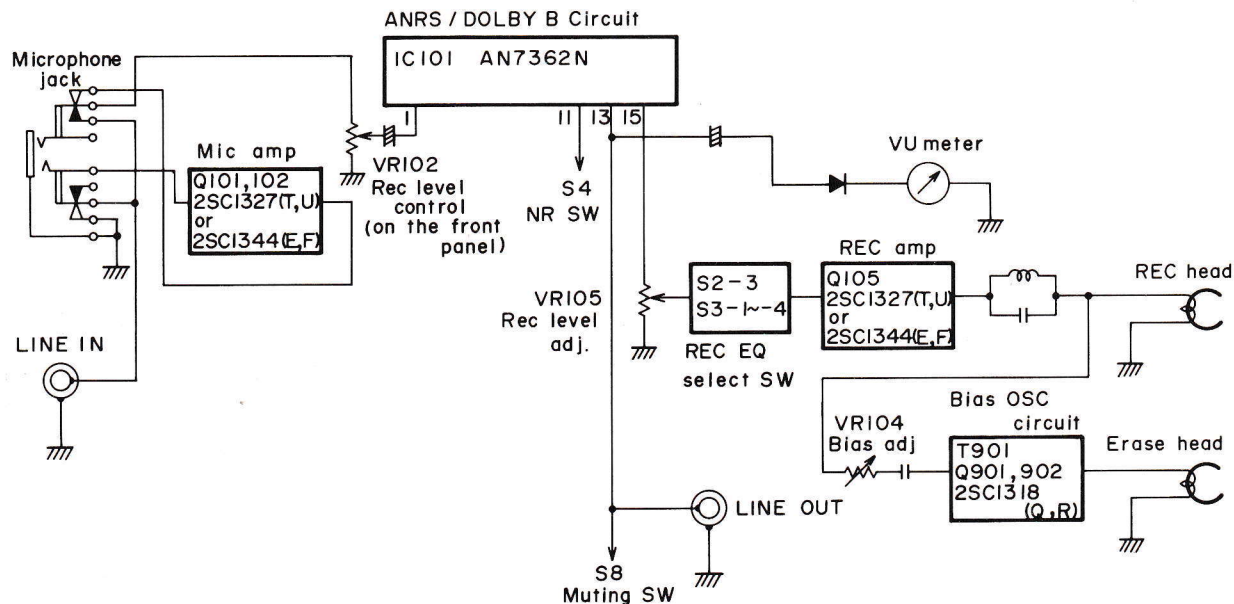
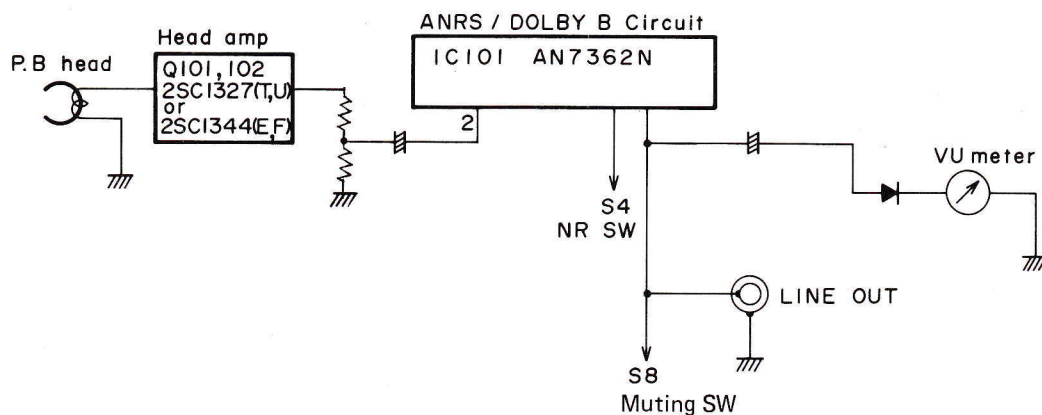


Fig. 11

— Playback system —



— Power supply circuit —

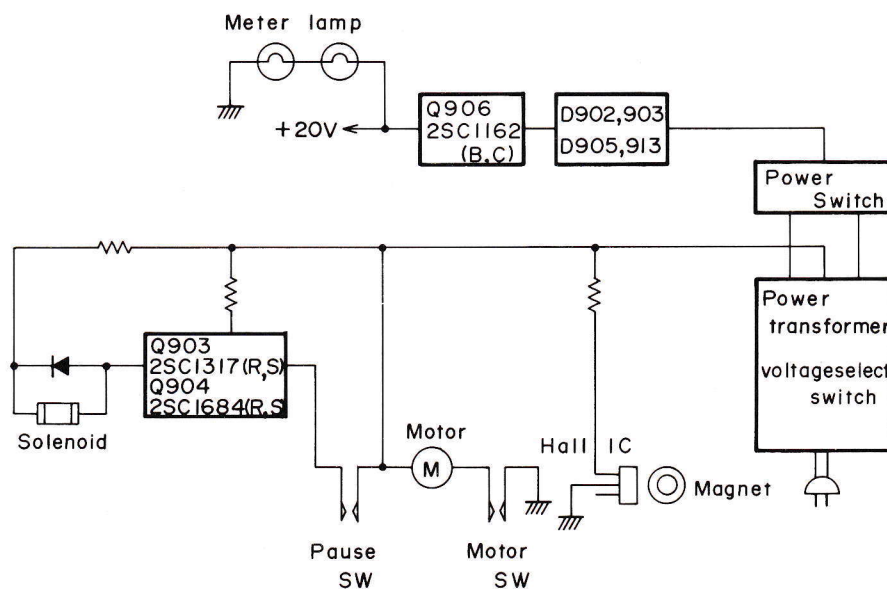
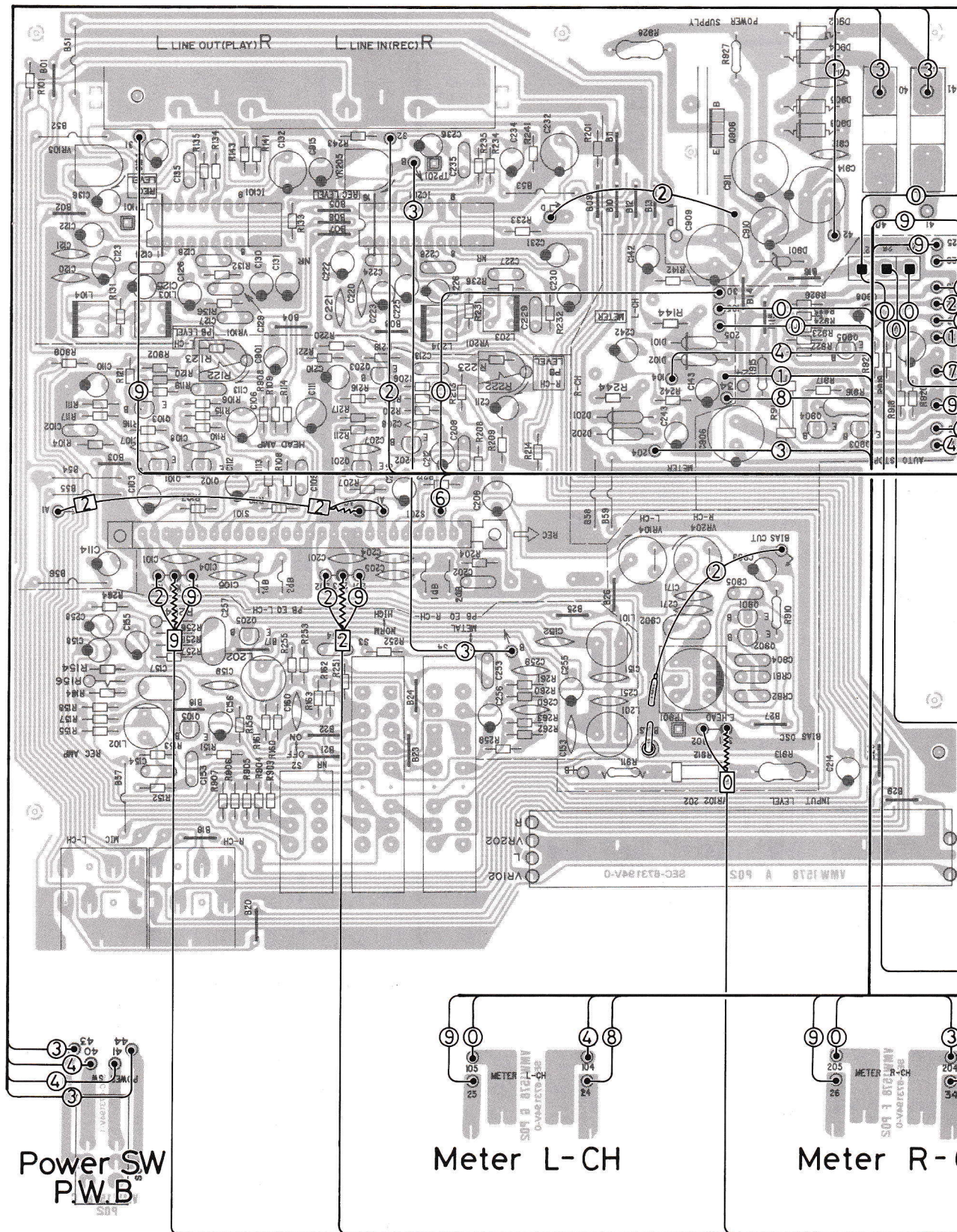
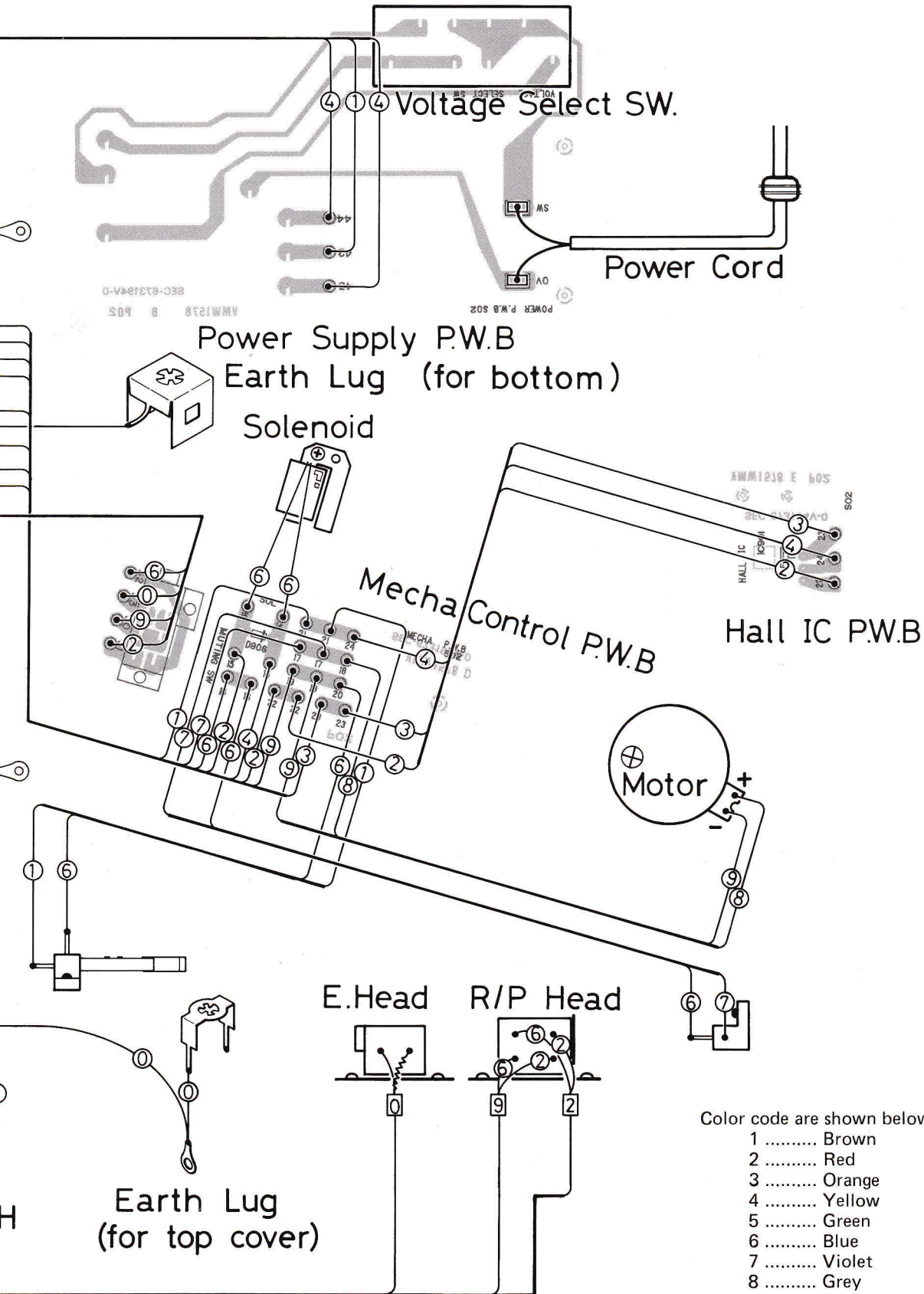


Fig. 12

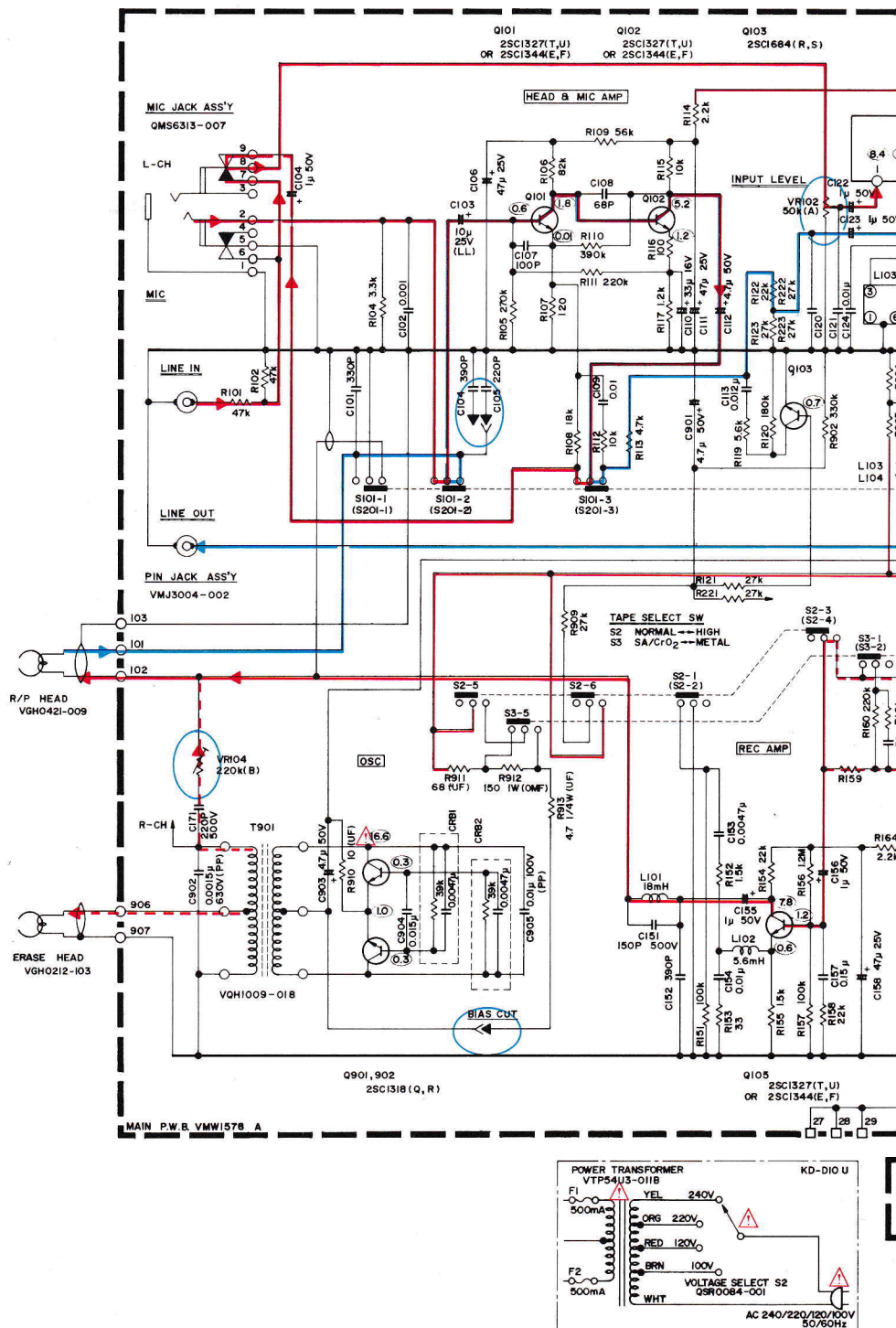
Wiring Connection

Main Amp P.W.B





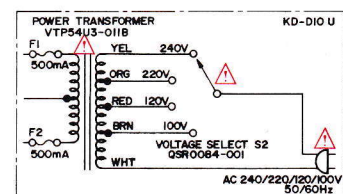
Standard Schematic Diagram of KD-D10



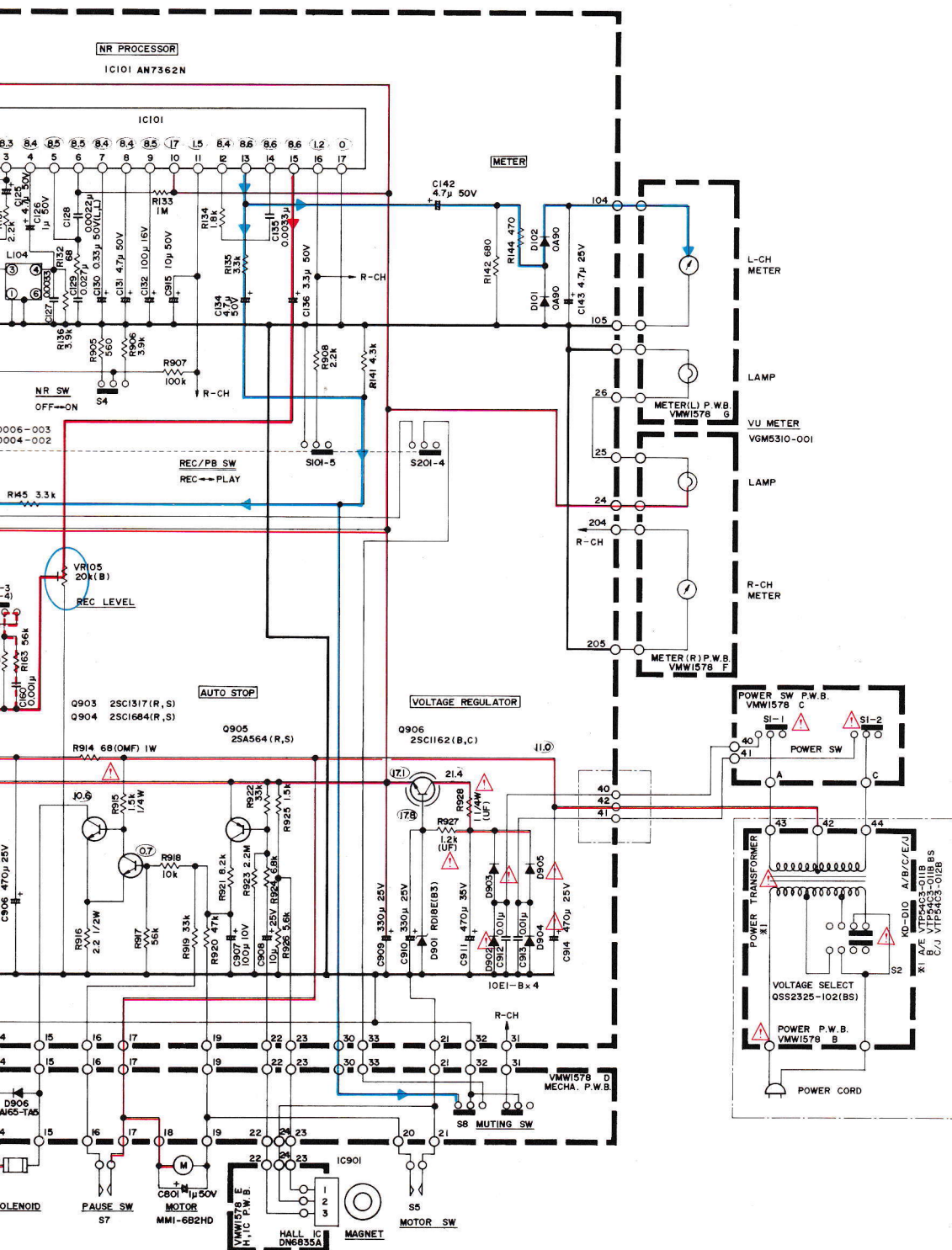
NOTES:

All voltages are measured by E. Voltmeter, without input signal.
(Rec mode, tape select metal, ANRS OFF)

1. Unless otherwise specified, all resistors are 1/6W, $\pm 5\%$ carbon resistors.
And all capacitors are 50 V fixed ceramic capacitors or 50 V Mylar capacitors.



2. UF — Unflammable carbon resistor
- MF — Metal film resistor
- OMF — Oxidized metal film resistor
- Ta — Tantalum solid electrolytic capacitor
- LL — +20% low leak current



- PP — Polypropylene capacitor
 PS — Polystyrene capacitor
 MM — Metallized mylar capacitor
 NP — Non-polarized electrolytic capacitor
 MP — Metallized polyester film capacitor

3. Blue line shows the signal at playback.
 Red line shows the signal at recording and +B circuits.
 4. parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Safety precautions

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠, be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.

The wiring of the primary side should be wound more than one and half times, then soldered.

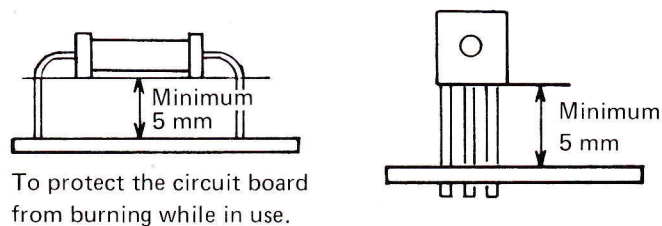


Fig. 15

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head. (It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Do the same method as heads.

3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.

* Do not use thinner or benzene.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they become magnetized.

A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

1. Turn the POWER switch OFF.
 2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
 3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head. Gradually move it away from the head and switch it off at a distance of more than 30 cm. (12")
 4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.
- * Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator (range: 50 — 20 kHz and output 0 dB with impedance 600 Ω)
- 3) Attenuator
- 4) Standard tapes for REC/PB

Maxell UD — SF tape	} — or equivalent
TDK SA — SA tape	
JVC ME — Metal tape	

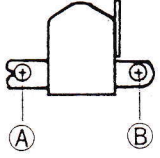
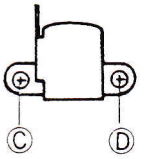
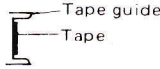
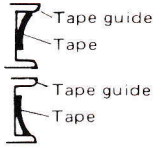
- 5) Reference tapes for playback (JVC Test Tape)
 - VTT-658 (for head azimuth adj.)
 - VTT-656 (for motor speed, wow flutter adj.)
 - VTT-664 (for Reference level 1 kHz)
 - VTT-675N (for playback frequency response)
- 6) Resistor 600 Ω (for attenuator matching)

2. Mechanical adjustment

- 1) Torque testing cassette gauge, CTG-N.
- 2) Blank tape (C-120) for tape running checker.

[II] Mechanical adjustment

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/playback head position 	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT-658 test tape. 3. Adjust the head angle with the screw (A) until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond.	Screw (A)	Maximum	If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3 – 4 dB, the head is defective. Replace it with a new one.
Adjustment erase head height 	1. Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 180° (a ½ revolution). 2. Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw (C) until the tape runs in the center of the erase head tape guide.	Screw (C)		Be sure to perform this adjustment after replacing the erase head. Correct  Incorrect 
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor in the motor	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking play-back torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		40–70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference, etc.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656 test tape. Check to see if the reading of the meter is within 0.15% (CCIR WTD)			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.

[III] Electrical adjustments location

Main Amp. P.W. Board (parts ass'y side view)

(Turning in the direction of the arrow increases the level.)

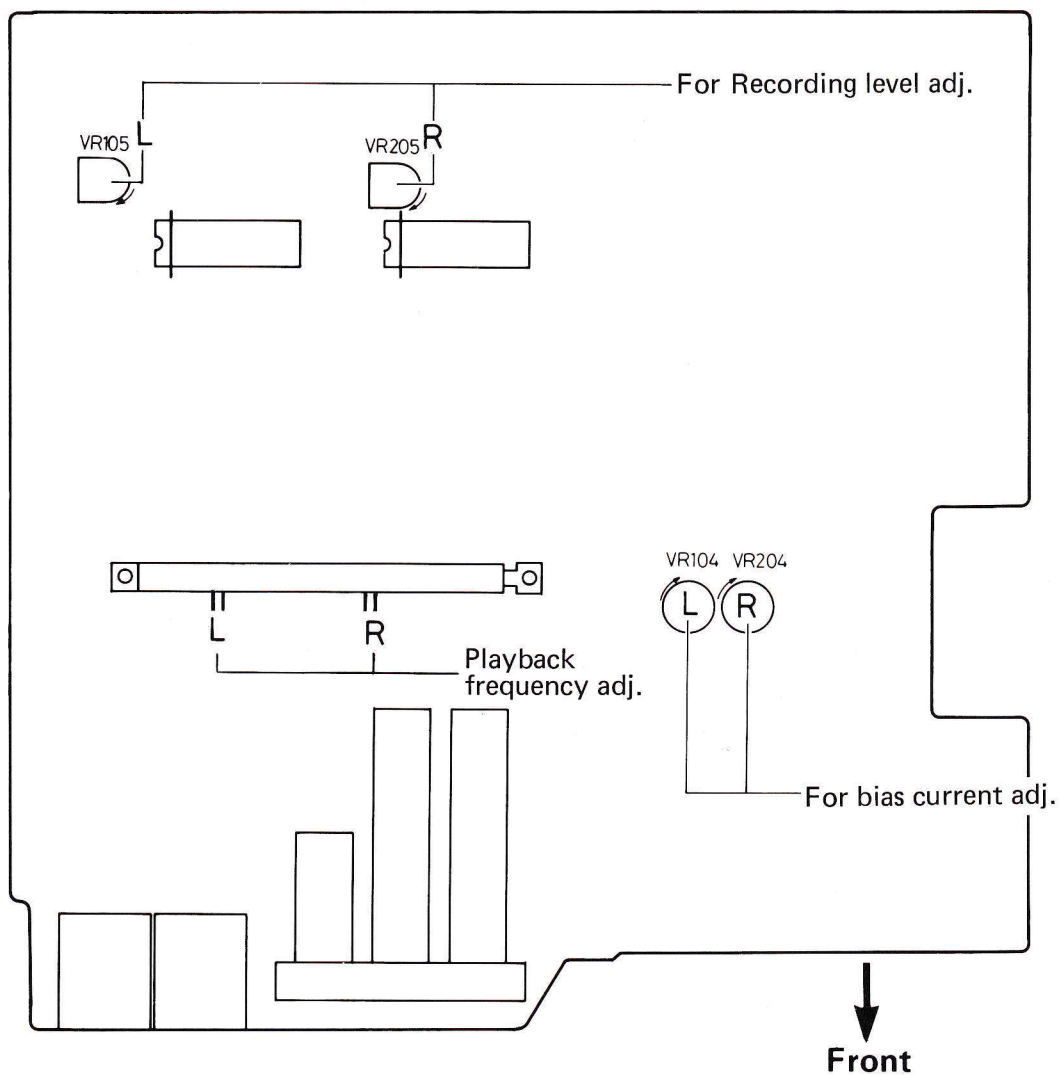


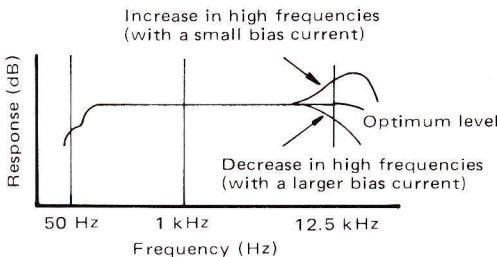
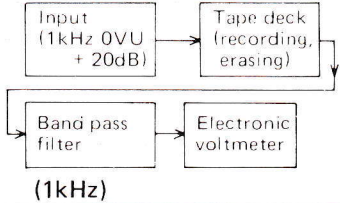
Fig. 16

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1, 2, 3, Perform this adjustment with the NR SYSTEM switch set to OFF.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1 *	Playback frequency response	Playback test tape VTT-675N (1 kHz, 10 kHz) for following adjustment. 1. Connect/Disconnect C104 or C105 so that 10 kHz signal and 1 kHz signal gains become flat response.		Reference frequency: 1 kHz 0 ± 2 dB at 10 kHz	NR SYSTEM: OFF TAPE SELECT: SF/NORM

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
2	Checking record/playback frequency response	Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 dB to -20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference. 	For S/F NORM tape; VR104, 204	Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz	This checking should be performed for normal tapes and for both right and left channels. 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
3	Adjusting recording level	1. Apply a 1 kHz, approx. -10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -8 dBs at the LINE OUT terminals. 2. After checking to see if the VU meter become 0 record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR105 and VR205 so that the VU meter becomes 0.	VR105, 205	0 dB	The level difference between left and right channels for SF/NORM tape and chrome tape should be less than 1 dB. Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO ₂ and metal tapes, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
4	Checking record/playback distortion	1. Record a 1 kHz, -8 dB signal to LINE IN terminals and perform recording with the VU meter becomes to 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		SF/NORM tape; Less than 2.5% SA/CrO₂ tape; Less than 3% Metal tape; Less than 2%	Be sure to perform this adjustment following bias current and recording level adjustment.
5	Checking signal to noise ratio in recording/playback	1. Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		SF/NORM, SA/CrO₂ and Metal tapes; More than 42 dB	Apply an output (-72 dBs) to the MIC terminals with the recording level controls set to maximum so that the VU meter becomes 0 VU.
6	Checking erasing coefficient	1. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the VU meter becomes 0 dB. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 65 dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter. 
7	Checking Auto stop	Hold less than 1 ± 0.5 mm gap to the magnet from the hall IC.			

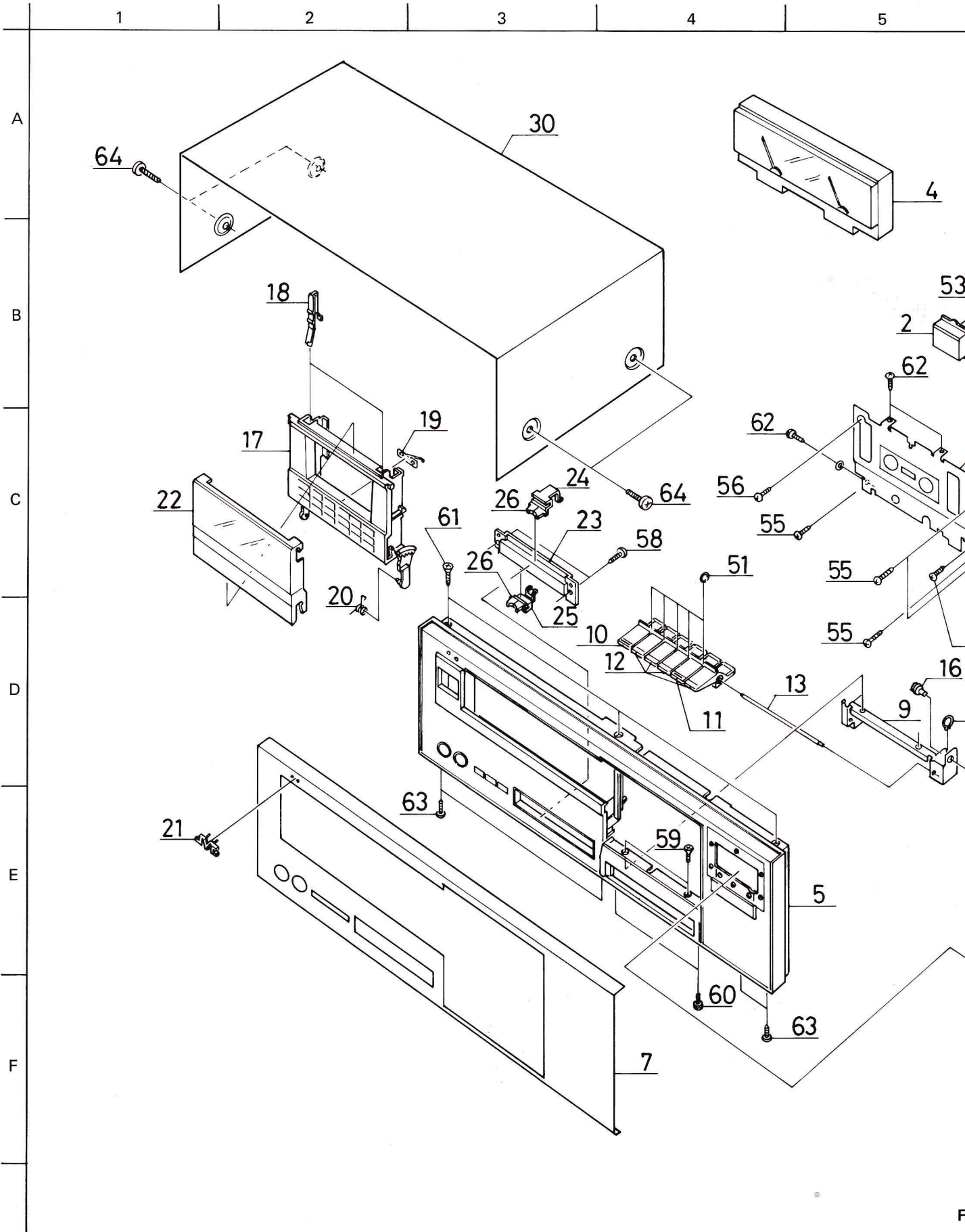
Enclosure Assembly and Electrical Parts List
 (Except P.W. Board Parts)

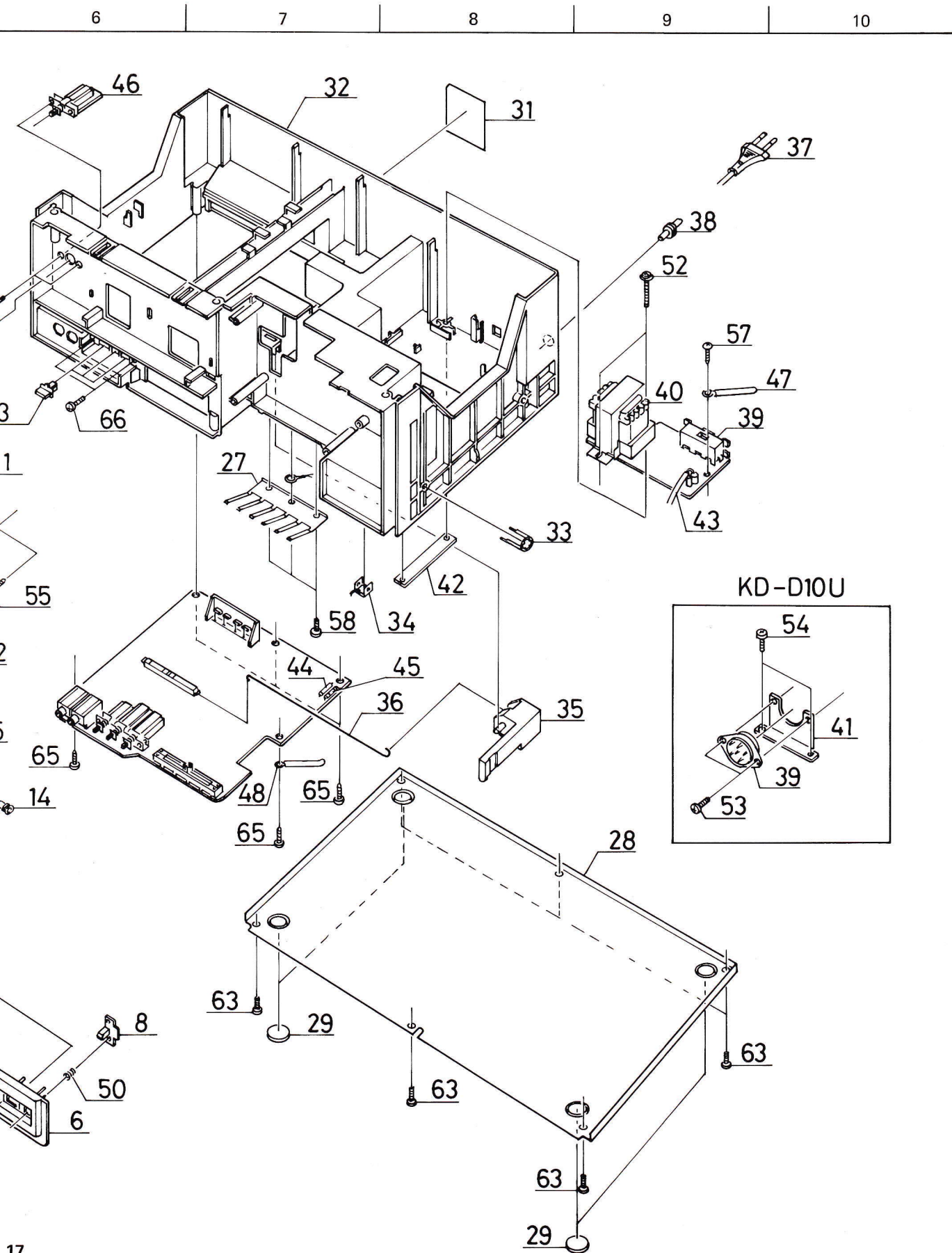
⚠ parts are safety assurance parts.
 When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
1		VJD3335-001	Mecha. Plate		1
2		VXP3084-002	Push Knob	for Power	1
3		VXP4234-001	"	for Select	3
4		VGM5310-001	VU Meter		1
(5 ~ 7. 21)		ZCKDD10Y-CBF	Front Panel Ass'y		1
5		VJC1224-001	Front Panel		1
6		VJD3337-001	Counter Escutcheon		1
7		VJC2072-001	Front Plate		1
8		VXP4235-001	Push Knob	for Reset	1
9		VKL3380-001	Button Bracket		1
10		VXP3066-004	Mecha. Button	for REC	1
11		" -005	"	for Stop	1
12		" -006	"		4
13		VKH4321-002	Button Shaft		1
14		VKH4322-001	Bearing		1
15		RCSA12000	C. Ring		1
16		VYH4460-001	Gear		1
17		VJT2071-001	Cassette Holder		1
18		VKS4464-001	Spring		2
19		VKY4252-001	Cassette Spring		1
20		VKW4350-001	Holder Spring		1
21		E69212-001	JVC Mark		1
22		VJT3086-001	Cassette Lid		1
23		VJD3336-001	Blind		1
24		VKS3153-001	Volume Lever (L)		1
25		VKS3154-001	" (R)		1
26		VXS4072-001	Slide Knob	for Input Volume	2
27		VKY4222-001	Button Spring		1
28		VJC2071-001	Button Cover		1
29		VJF4003-002	Foot		4
30		VJC1223-002	Top Cover		1
31		VYN2098-001PA	Name Plate	KD-D10B	1
		" -002	"	KD-D10A	1
		" -003	"	KD-D10C	1
		" -004	"	KD-D10E	1
		" -005	"	KD-D10J	1
		" -006	"	KD-D10U	1
32		VYH1128-001	Amp. Chassis	KD-D10A/B/C/E/U, -002UL (KD-D10J)	1
33		VKY4202-001	Earth Lug	for Top Cover	1
34		VKY4225-001	"	for Bottom, Front Plate	2
35		VKS3155-001	Rec. Arm		1
36		VKW4351-001	Rec. Spring		1
37		QMP2560-200	Power Cord	KD-D10A	1
		QMP9017-008BS	"	KD-D10B	1
		QMP1200-200	"	KD-D10C/J	1
		QMP3900-200	"	KD-D10E	1
		QMP7600-200	"	KD-D10U	1
38		QHS3876-252	Strain Relief	KD-D10A/E	1
		" -252BS	"	KD-D10B	1
		QHS3056-252	"	KD-D10J/U/C	1
39		QSS2325-102	Slide Switch	KD-D10A/C/E/J for Voltage Selector	1
		" -102BS	"	KD-D10B for "	1
40		QSR0084-001	Voltage Select Switch	KD-D10U	1
		VTP54C3-011B	Power Transformer	KD-D10A/E	1
		" -011BBS	"	KD-D10B	1
		" -012B	"	KD-D10C/J	1
		VTP54U3-011B	"	KD-D10U	1

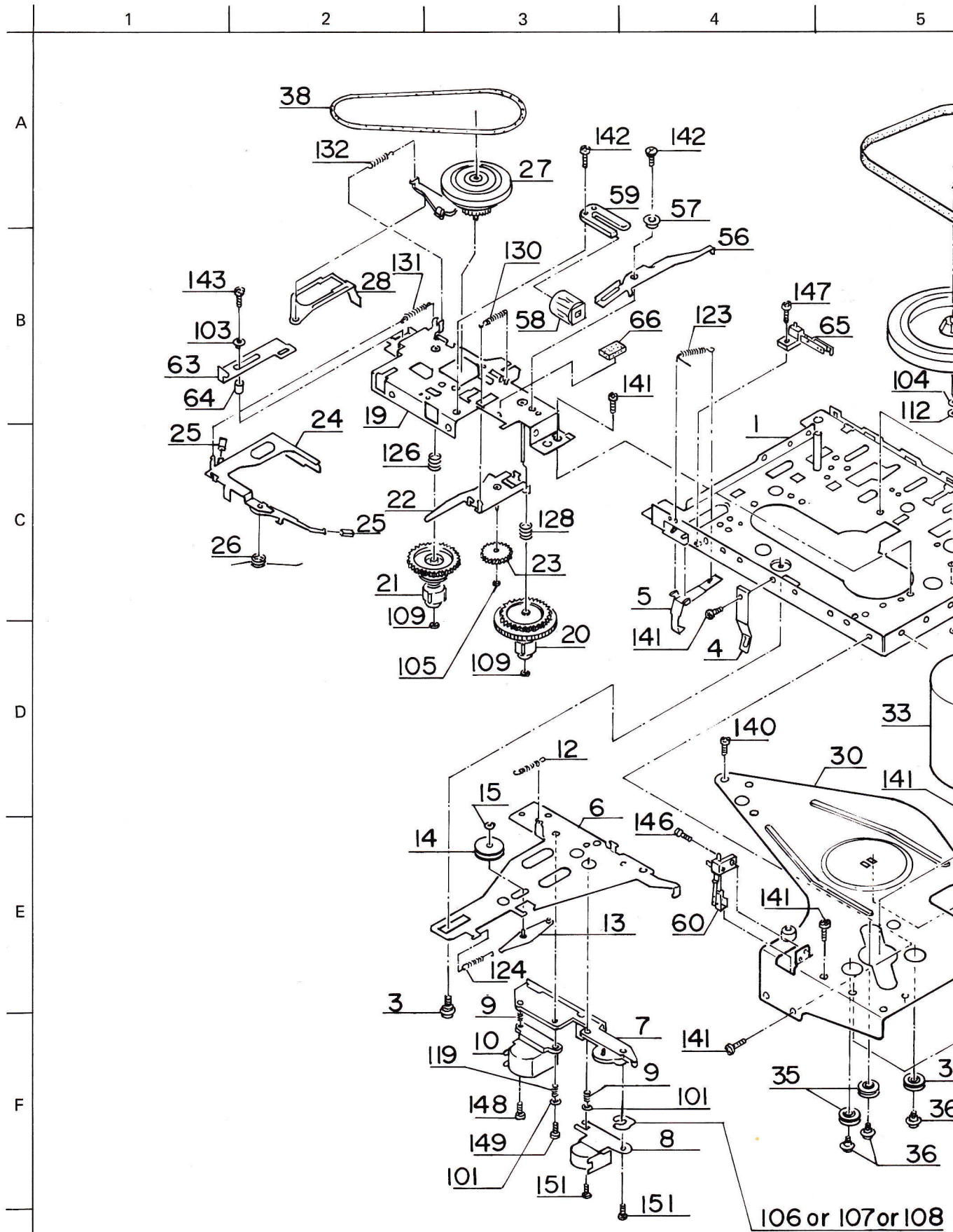
Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
41		VKL5007-001	Bracket	KD-D10U	1
42		VKL4911-001	Trans. Bracket		1
43		TAW000504-01	FG Connector	KD-D10U	1
44		QMF51S2-R50	Fuse	F1, F2, KD-D10U	2
45		TAZ000331-02	Fuse Holder	KD-D10U	4
46		QSP0219-061	Push Switch	for Power S1	1
47		VKZ4001-011	Wire Clamp	Power Supply P.W.B	1
48		VKZ4001-010	"	Main Amp P.W.B	1
50		VKW3001-065	Compression Spring		1
51		Q03093-613	Washer		5
52		DPSP4020ZS	Screw	for Power Transformer	2
53		LPSP3006ZS	"	for Power Switch x 1 Voltage Select Switch x 1 (KD-D10U)	2
54		SBSF3008Z	"	for Bracket (KD-D10U)	2
55		SBSF3010C	"	for Mecha.	5
56		SBSF3010R	"	for "	1
57		SB8F3010V	"	for P.W.B.	1
58		SBSF3010Z	"	for Blind x 2, Button x 3	5
59		SSSP2604Z	"	for Button Bracket	2
60		LPSP2606Z	"	for "	2
61		SSSF3010Z	"	for Front Panel	3
62		SDST2604Z	"	for M. Plate	4
63		SDSF3010Z	"	for F. Panel x 4, B. Cover x 6	10
64		SDSB4014R	"	for T. Cover	4
65		SDSF3012V	"	for Main Amp P.W.B	1
66		LPSP3006V	"		2

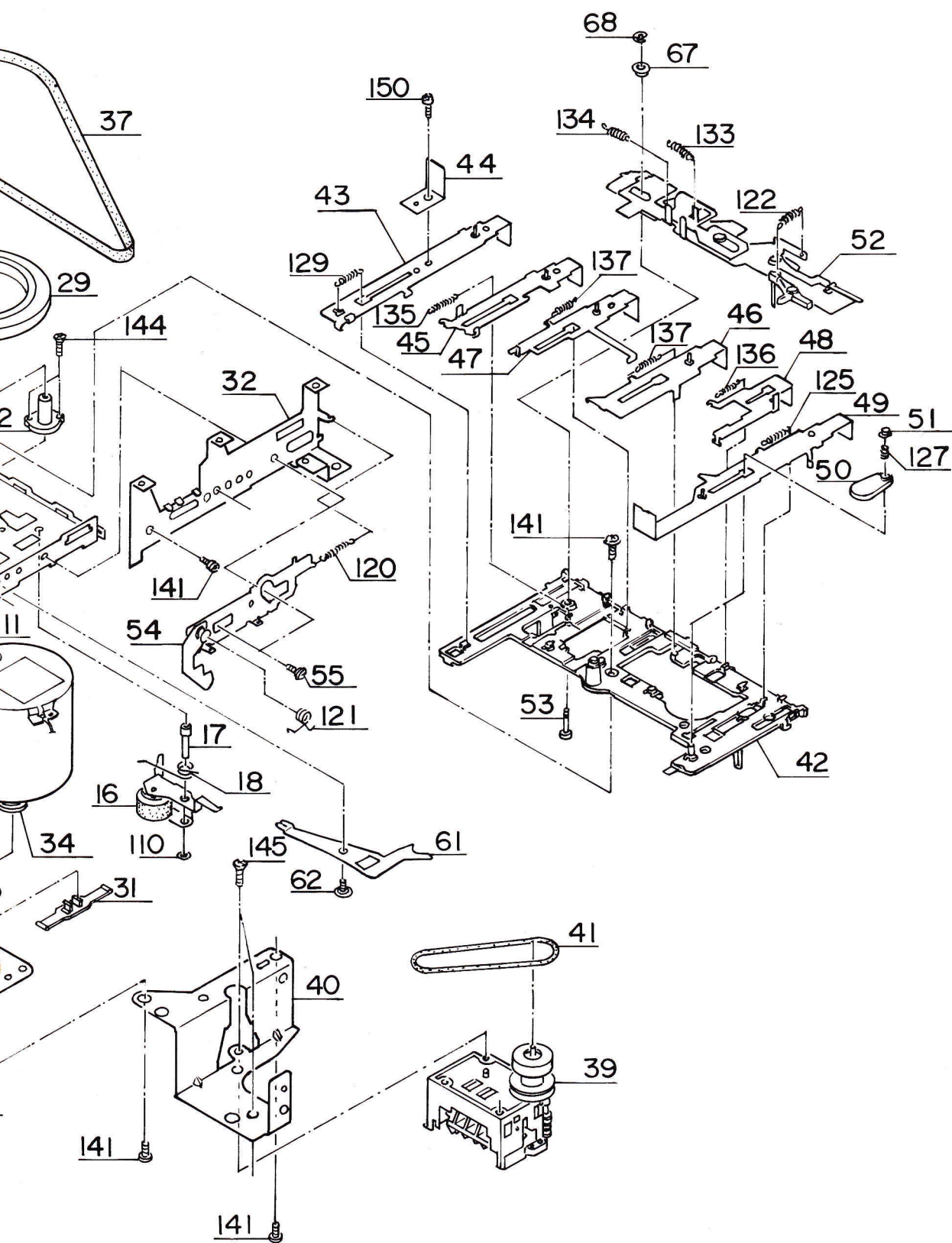
Enclosure Assembly and Electrical Parts (Except P.W. Board Parts)





Mechanical Component Parts



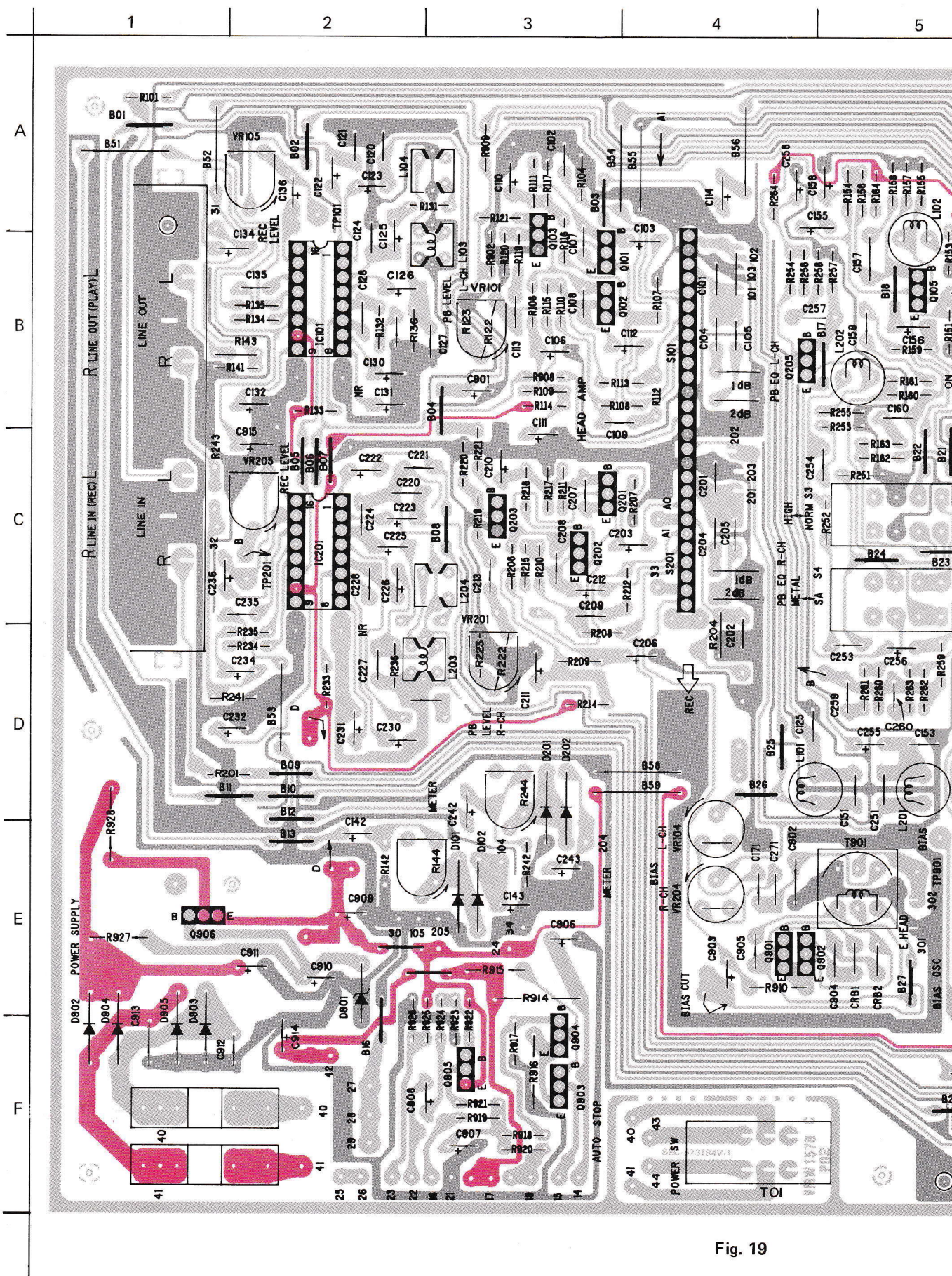


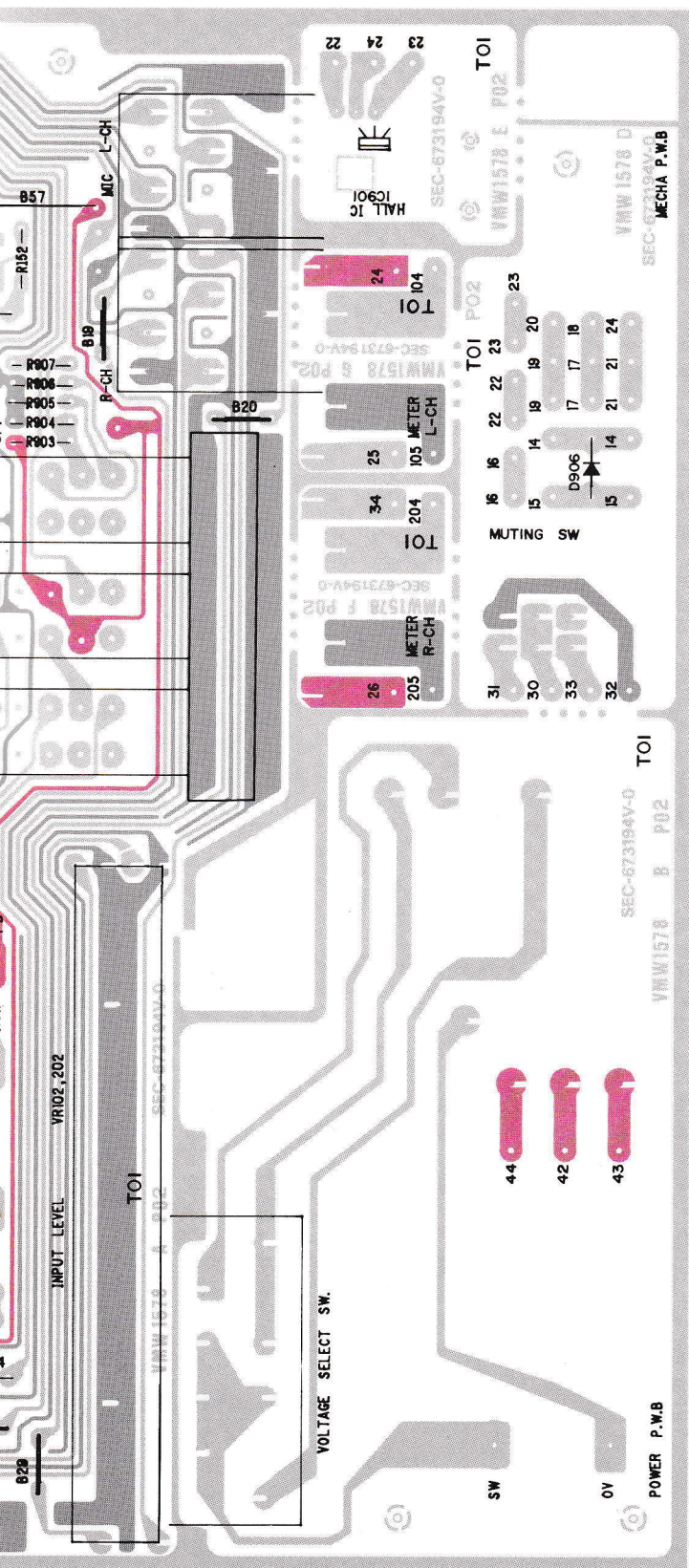
Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	170001101ZT	Mecha. Chassis Ass'y		1
2	17000113T	FL. Block		1
3	17000310T	Head Panel Collar Screw		1
4	17000115T	Pack Spring		1
5	17000219T	Rec. Safety Lever		1
6	17000301T	Head Panel		1
7	17000306T	Head Base		1
8	*VGH0421-009	R/P Head		1
9	9400312T	Head Spring	R/P Head, E Head	2
10	VGH0212-103	E. Head		1
12	17000307T	RC. Spring	Play Button – Head Panel	1
13	17000312ZT	Take-up Roller Plate Ass'y		1
14	17000309ZT	Take-up Roller Ass'y		1
15	12001503T	Polyslider Washer	(ϕ 1.2, ϕ 3, t 0.25)	1
16	17000491ZT	Pinch Roller Ass'y		1
17	15100403T	Pinch Roller Arm Sleeve		1
18	17000402T	Pinch Roller Spring		1
19	17000585ZT	Reel Disk Bracket Ass'y		1
20	17000592ZT	Take-up Reel Ass'y		1
21	17000593ZT	Supply Reel Ass'y		1
22	17000587ZT	FF Gear Plate Ass'y		1
23	17000516BT	FF Gear		1
24	17000584ZT	Main Plate Ass'y		1
25	11991603T	Brake Shoe		2
26	17000521T	Brake Arm Spring		1
27	17000695ZT	RF Clutch Ass'y		1
28	17000526T	Rew. SP Plate		1
29	17000705T	Flywheel Ass'y		1
30	170007101ZT	Flywheel Bracket Ass'y		1
31	17100504T	Thrust Holder		1
32	*17001153T	Eject Bracket		1
33	*MM1-6A2LKUA	Motor		1
34	17001016T	Motor Pulley		1
35	5880910T	Rubber Cushion		3
36	12001201T	Collar Screw (S)		3
37	17001009T	Main Belt		1
38	17001010T	RF Belt		1
39	VKC5144-001T	Counter		1
40	*17001327T	Counter Bracket		1
41	*05471602T	Counter Belt		1
42	17000945T	Push Button Base		1
43	170009111ZT	Rec. Button Lever Ass'y		1
44	17000205T	Rec. Bracket		1
45	170009112ZT	Play Button Lever Ass'y		1
46	170009172ZT	FF Button Lever Ass'y		1
47	170009173ZT	Rew. Button Lever Ass'y		1
48	170009315T	Stop Button Lever F		1
49	170009116ZT	Pause Button Lever Ass'y		1
50	12221702T	Pause Lever		1
51	17000935T	Pause Lever Stopper		1
52	*170009171ZT	Lock Plate Ass'y		1
53	*170009305T	Lock Plate Boss		1
54	*170011101ZT	Eject Slide Lever Ass'y		1
55	17000310T	Collar Screw		2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	17001505T	Auto Kick Lever		1
57	17001202T	Auto Kick Lever Collar		1
58	17001506T	Coil		1
59	17001501T	Core		1
60	MSW-1480T	SW. Ass'y	Pause	1
61	17001201T	Pause Arm Lever		1
62	17001202T	Collar Screw		1
63	17000807T	SW. Lever Ass'y		1
64	17000808T	Collar		1
65	MSW-1230-NBK	SW. Ass'y		1
66	6521004T	Felt		1
67	170009306T	Collar		1
68	REE1200	E, ring		1
101	WSS2000Z	Washer	R/P Head x 1, E. Head x 1	2
102	WSS2300Z	"	Packing Spring	1
103	WNS2600Z	"	SW. Lever A	1
104	11011106T	"	Flywheel (ϕ 2.3, ϕ 5, t 0.25)	1
105	12001503T	"	FF Gear Plate (ϕ 1.2, ϕ 3, t 0.25)	1
106	13270412AT	U. Washer	Head Adjust	2
107	13270412BT	"	"	2
108	13270412CT	"	"	2
109	16100604T	Washer	Take-up Reel Ass'y x 1, Supply Reel Ass'y x 1 (ϕ 1.6, ϕ 3.8, t 0.3)	2
110	17150401T	"	Pinch Roller	1
111	7131108T	"	Oil Cut (ϕ 2.1, ϕ 7, t 0.5)	1
112	17000710T	"	Flywheel (ϕ 2.2, ϕ 3.8, t 0.3)	1
119	VKW3001-036	Spring	E. Head	1
120	17001107T	"	Eject Slide Lever	1
121	17001124T	"	Lock Lever	1
122	17001611T	"	Auto Lever	1
123	17000220T	"	R. Safety Lever	1
124	17000322T	"	Head Panel — Take-up Roller	1
125	17000934T	"	Pause	1
126	12400205T	"	Supply Back Tension	1
127	13231701T	"	Pause Lever	1
128	13301303T	"	Take-up — Back Tension	1
129	13340213T	"	Rec.	1
130	17000512T	"	FF Gear Plate	1
131	17000513T	"	Main Plate	1
132	17000618T	"	RF Clutch Arm	1
133	170009320T	"	Timing	1
134	170009322T	"	Main	1
135	170009330T	"	Play	1
136	170009331T	"	Stop	1
137	170009364T	"	FF, REW	2
140	10PZ26050T	Tapping Screw	Flywheel Bracket	1
141	20PZ26040T	"	Packing Spring x 1, Reel Disk Bracket x 1, Eject Bracket x 1, Flywheel Bracket x 3, Push Button Base x 1, Counter Bracket x 2	9
142	20PZ26060T	"	Coil	1
143	20PZ26100T	"	SW. Lever A	1
144	SSSB2004Z	"	FL Block	2
145	SSSB2608Z	"	Counter	1
146	SDSP2004Z	Screw	SW. Ass'y	1
147	SPSD2605Z	Tap. Screw		1
148	SPSP2008Z	Screw	E. Head	1
149	SPSP2011Z	"	E. Head	1
150	SPSP2604Z	"	Rec. Bracket	1
151	SPSX2007Z	PM. Screw	R/P Head	2

P.W. Board Parts





	E. Voltmeter			C. Tester		
	B	C	E	B	C	E
Q101	0.6	1.8	0	0.6	1.8	0
Q102	1.8	5.2	1.2	1.8	5.3	1.2
Q103	0.7	0	0	0.7	0	0
Q105	1.2	7.8	0.6	1.2	7.8	0.6
Q901	0.3	16.6	1.0	0.3	16.5	1.0
Q902	0.2	16.6	1.0	0.3	16.5	1.0
Q903	0	10.6	0	0	10.4	0
Q904	0.7	0	0	0.7	0	0
Q905	17.0	2.8	17.4	17.0	2.8	17.4
Q906	17.8	21.4	17.1	17.8	21.2	17.1

at stop mode

	IC 101	
	E. Voltmeter	C. Tester
1	8.4	8.4
2	8.4	8.4
3	8.3	8.3
4	8.4	8.4
5	8.5	8.5
6	8.5	8.5
7	8.4	8.4
8	8.4	8.4
9	8.5	8.5
10	17.1	17.0
11	1.5	1.5
12	8.4	8.4
13	8.6	8.6
14	8.6	8.6
15	8.6	8.6
16	1.2	1.2
17	0	0

Main P.W.B. Parts List

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
R101, 201, 102, 202		VMW1518-A	P.W. Board	No Supply as Parts Ass'y	1
R104, 204, 135, 235, 143, 243		QRD161J-473	C. Resistor	47 kΩ 1/6 W	4
R105, 205		" -332	"	3.3 kΩ "	6
R106, 206		" -274	"	270 kΩ "	2
R107, 207, 152, 252		" -823	"	82 kΩ "	2
		" -121	"	120 Ω "	4
R108, 208		" -183	"	18 kΩ "	2
R110, 210		" -394	"	390 kΩ "	2
R111, 211, 160, 260		" -224	"	220 kΩ "	4
R112, 212, 115, 215, 918		" -103	"	10 kΩ "	5
R113, 213		" -472	"	4.7 kΩ "	2
R114, 214, 131, 231, 164, 264, 908		" -222	"	2.2 kΩ "	7
R116, 216		" -101	"	100 Ω "	2
R117, 217		" -122	"	1.2 kΩ "	2
R119, 219		" -562	"	5.6 kΩ "	2
R120, 220,		" -184	"	180 kΩ "	2
R121, 221		" -273	"	27 kΩ "	2
R132, 232		" -680	"	68 Ω "	2
R133, 233		" -105	"	1 MΩ "	2
R134, 234		" -182	"	1.8 kΩ "	2
R136, 236		" -392	"	3.9 kΩ "	2
R141, 241		" -432	"	4.3 kΩ "	2
R142, 242		" -681	"	680 Ω "	2
R144, 244		" -471	"	470 Ω "	2
R151, 251, 157, 257, 907,		" -104	"	100 kΩ "	5
R153, 253		" -330	"	33 Ω "	2
R154, 254, 158, 258		" -223	"	22 kΩ "	4
R155, 255, 925, 152, 252		" -152	"	1.5 kΩ "	5
R156, 256		QRD143J-125S	"	1.2 MΩ 1/4 W	2
R159, 259, 161, 261		QRD161J-683	"	68 kΩ 1/6 W	4
R162, 262		" -124	"	120 kΩ 1/6 W	2
R163, 263		" -563	"	56 kΩ "	2
R902		" -334	"	330 kΩ "	1
R903, 921		" -822	"	8.2 kΩ "	2
R904		" -123	"	12 kΩ "	1
R905		" -561	"	560 Ω "	1
R906		" -392	"	3.9 kΩ "	1
R909, 121, 221, 123, 223		" -273	"	27 kΩ "	5
R910	⚠	QRD149J-100S	Fail Safe C. Resistor	10 Ω 1/4 W	1
R911	⚠	" -680S	"	68 Ω "	1
R912	⚠	QRG019J-151	OMF Resistor	150 Ω 1 W	1
R913	⚠	QRD149J-4R7	Fail Safe C. Resistor	4.7 Ω 1/4 W	1
R914	⚠	QRG019J-680	OMF Resistor	68 Ω 1 W	1
R915		QRD147J-152S	C. Resistor	1.5 kΩ 1/4 W	1
R916		QRD121J-2R2	"	2.2 Ω 1/2 W	1
R917, 109, 209		QRD161J-563	"	56 kΩ 1/6 W	3
R919, 922		" -333	"	33 kΩ "	2
R920		" -473	"	47 kΩ "	1
R923		QRD143J-225S	"	2.2 MΩ 1/4 W	1
R924		QRD161J-682	"	6.8 kΩ 1/6 W	1
R926		" -562	"	5.6 kΩ "	1
R927	⚠	QRD149J-122S	Fail Safe C. Resistor	1.2 kΩ 1/4 W	1
R928	⚠	QRD129J-1R0	"	1 Ω 1/2 W	1
C101, 201		QCS11HJ-331	C. Capacitor	330 pF 50 V	2
C102, 202		QFM41HJ-102	M. Capacitor	0.001 μF "	2
C103, 203		QEB41EM-106	E. Capacitor	1 μF 25 V	4
C104, 204		QCS11HJ-391	C. Capacitor	390 pF 50 V	2
C105, 205		" -221	"	220 pF "	2
C107, 207		" -101	"	100 pF "	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C108, 208, 120, 220	" -680	"	68 pF "	4
C109, 209, 124, 224, 154, 254	QFM41HJ-103	M. Capacitor	0.01 μ F "	6
C110, 210	QET41AR-336	E. Capacitor	33 μ F 10 V	2
C111, 211	QET41ER-476	"	47 μ F 25 V	2
C112, 212, 125, 225, 131, 231, 134, 234, 142, 242, 901, 903	QET41HR-475	"	4.7 μ F 50 V	12
C113, 213	QFM41HJ-123	M. Capacitor	0.012 μ F 50 V	2
C114, 214, 122, 222, 123, 223, 126, 226, 155, 255, 156, 256	QET41HR-105	E. Capacitor	1 μ F "	12
C128, 228	" -222	"	0.0022 μ F "	2
C129, 229	" -273	"	0.027 μ F "	2
C130, 230	QEB41HM-334	E. Capacitor (Low Leak)	0.33 μ F "	2
C132, 232	QET41CR-107N	" "	100 μ F 16 V	2
C135, 235, 127, 227	QFM41HJ-332	M. Capacitor	0.0033 μ F 50 V	4
C136, 236	QET41HR-335	E. Capacitor	3.3 μ F "	2
C143, 243	QET41ER-475	"	4.7 μ F 25 V	2
C151, 251	QCS12HJ-151	C. Capacitor	150 pF 50 V	2
C152, 252	QCS11HJ-391	"	390 pF "	2
C153, 253	QFM41HJ-472	M. Capacitor	0.0047 μ F "	2
C157, 257	QFM41HJ-154	"	0.15 μ F "	2
C158, 258, 106, 206	QFM41ER-476	E. Capacitor	47 μ F 25 V	4
C159, 259	QFM41HJ-102	M. Capacitor	560 pF 50 V	4
C160, 260	" -102	"	0.001 μ F "	2
C171, 271	QCY12HK-221	"	220 pF "	2
C902	QFP82XJ-152	P.P. Capacitor	0.0015 μ F	1
C904	QFM41HJ-153	M. Capacitor	0.015 μ F 50 V	1
C905	QFP82AJ-103	P.P. Capacitor	0.01 μ F 10 V	1
C906, 914	QET41ER-477N	E. Capacitor	470 μ F 25 V	2
C907	QET41AR-107	"	100 μ F 10 V	1
C908, 915	QET41ER-106	"	10 μ F 25 V	2
C909, 910	" -337	"	330 μ F "	2
C911	QET41VR-477N	"	470 μ F 35 V	1
C912, 913	QCF11HP-103	C. Capacitor	0.01 μ F 50 V	2
CRB1, CRB2	EXR-P472M393W	C.R. Block		2
VR102, 202	QVZ5502-001	V. Resistor	Input	2
VR104, 204	QVP4A0B-224	"	Bias	2
VR105, 205	QVP8A0B-024	"	Rec. Level	2
L101, 201	VQP0001-183	Inductor		2
L102, 202	" -563	"		2
L103, 203	VQZ0004-002	MPX Filter		2
L104, 204	VQZ0006-003	Bias Trap		2
T901	VQH1009-018	OSC Coil		1
	VYH4514-002	Shield Case	for T901	1
S2, S3, S4	QST4342-V01	Push SW. Ass'y	NR Tape Select	1
S101, 201	VMJ3004-002	Jack Ass'y	PIN	1
	QSS9201-005R	Slide Switch	for R/P	1
	VKL5002-001	Heat Sink	for Q906	1
	DPSP3008Z	Screw	for "	1
	QMS6313-007	Mic. Jack		2
Q101, 201, 102, 202, 105, 205	2SC1344(E,F)	Si. Transistor	or 2SC1327	6
Q103, 203, 904	2SC1684(R,S)	"		3
Q901, 902	2SC1318(Q,R)	"		2
Q903	2SC1317(R,S)	"		1
Q905	2SA564(R,S)	"		1
Q906	2SC1162(B,C)	"		1
IC101, 201	AN7362N	I.C.		2
D101, 201, 102, 202	OA90	Ge. Diode		4
D901	RD18E (B3)	Zener Diode		1
D902-905	10E1-B	Diode		4

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
[Muting SW] D906	VMW1578-**D	P.W. Board	Muting for Muting SW	1
	T30483-**C	Slide Switch		1
	LPSP2604Z	Screw		2
	VKL5015-001	SW. Bracket		1
	MA165-TA5	Si. Diode		1
[Hall IC]	VMW1578-**E	P.W. Board		1
	DN6835A	Hall IC		1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VMP0002-00B	Pin Cord	KD-D10E/B KD-D10A/C/U/J Made in Japan	2
VNN0089-301	Instruction Book		1
VNN0089-901	"		1
BT20013C	Guaranty Certificate		1
TJL000443-01	Seal		1
	BEAB Label		1
TLT052401-01	Warning Label	for Disconnection for 2-pin Power Cord DIN 45 500	1
QZL1002-003BS	"		1
VNC5004-001	Mark Sticker		1
BTT20029C	Warranty Card	KD-D10A	1
BTT20025E	"	KD-D10C	1
BTT20057	"	KD-D10E	1
BTT20047B	"	KD-D10U	1
BTT20047	"	KD-D10J	1
T44362-001	CSA Marker	KD-D10C	1
TLT000505-01	UL/CSA Caution Label	KD-D10C/J	1
VND4037-001	F Mark Label	KD-D10E	1
BT20046A	Special Reply Cord	KD-D10J/U	1
E7795-1	EP Mark	KD-D10U	1
V04062-001	Siemens Plug	KD-D10U	1
BNC5311-101	Caution Card	KD-D10U	1
BT2044B	Safety Instruction	KD-D10J	1

Packing

Positions of control and switch knobs at renew packing

Power switch : OFF
 REC level control : MIN
 Tape select : SA/CrO₂
 NR SYSTEM : ANRS/DOLBY B
 Mecha. operation buttons : OFF
 Counter : 000

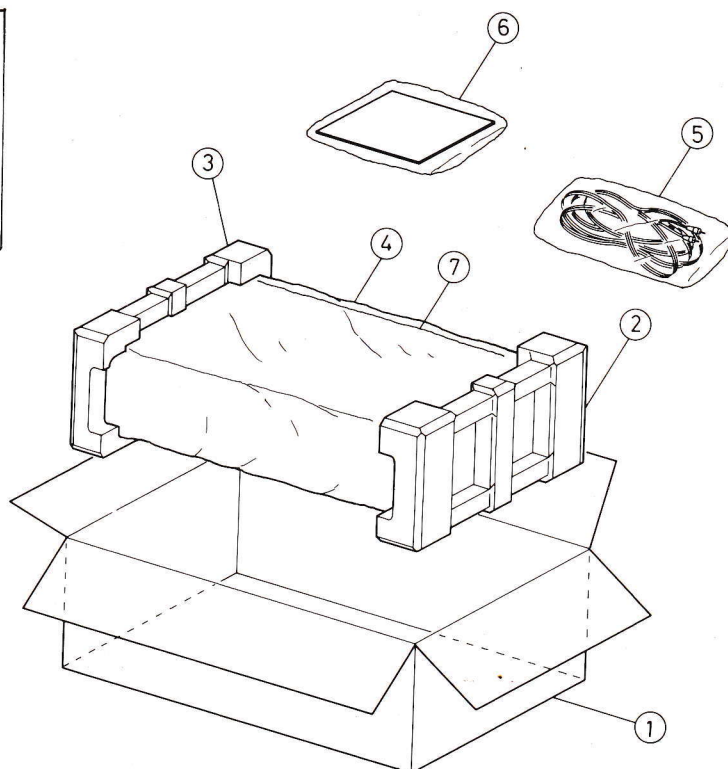


Fig. 20

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VDP2098-J01	Carton	KD-D10B	1
	* " -J02	"	KD-D10A	1
	* " -J03	"	KD-D10C	1
	* " -J04	"	KD-D10E	1
	* " -J05	"	KD-D10J	1
	* " -J06	"	KD-D10U	1
2	VPH2146-001	Cushion (L)	KD-D10A/C/E/J/U	1
3	VPH2147-001	" (R)	"	1
4	QPGA060-06005	Envelope	for Set	1
5	AP4056A-36	"	for Pin Cord	1
6	AP4056B-077	"	for Instruction Book	1
7	Q04141H	Wire Clamp	for Power Cord	1
	TKS000501-08	Seal	for Set	1

JVC

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