



Service Manual

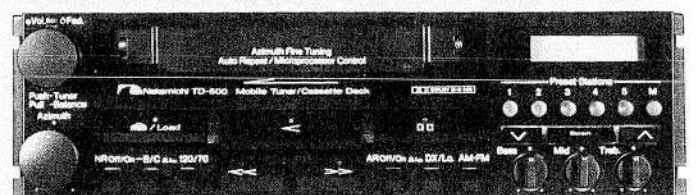
Nakamichi

TD-500

TD-500E

TD-500D

Mobile Tuner/Cassette Deck



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1. GENERAL

1.1. Packing Materials, Owner's Manual and Auxiliary Parts

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
0F03844A	Outer Carton TD-500	1
0F03852A	Outer Carton TD-500E	1
0F03834A	Outer Carton TD-500D	1
0F03814A	Inner Carton TD-500 (U.S.A.)	1
0F03815A	Inner Carton TD-500 (Canada, Australia, Others & Japan)	1
0F03829A	Inner Carton TD-500E	1
0F03833A	Inner Carton TD-500D	1
0F03831A	Packing	2
0F03832A	Sleeve	1
0D04479A	Owner's Manual TD-700/TD-500 (Japanese)	1
0D04480A	Owner's Manual TD-700/TD-500 (English)	1
0D04482A	Owner's Manual TD-700/TD-500, TD-700E/TD-500E & TD-700D/TD-500D (English/German/French)	1
0D04481A	French Text TD-700/TD-500 (Canada)	1
0B90003A	Fuse 0.5A	1
0B90042A	Fuse 10A	1
0B81267E	4P Terminal TD-500 & TD-500E	1
0B81271E	4P Terminal TD-500D	1
0D04207A	Metal Stay (except Japan)	1
0B80067B	Ground Wire (except Japan)	1
0J04872A	U-shaped Grip (except Japan)	2
0H04459A	Trim Panel Rim (except Japan)	1
0J04879A	Sleeve Spacer A (thin type) (except Japan)	1
0J04880A	Sleeve Spacer B (thick type) (except Japan)	1
HA04665A	Mobile Traffic Information Processor TD-500D	1

1.2. Note on Operation

If the Rewind button is pressed before the cassette tape loading process is completed, unexpected action may occur depending on the condition of the Mobile Tuner/Cassette Deck. The cassette tape may be ejected or played back unwillingly.

2. REMOVAL PROCEDURES

2.1. Top and Bottom Covers

Refer to Fig. 2.1.

- (1) Remove F01 (Mounting Sleeve).
- (2) Loosen screws F02 (1 pce.) and F03 (2 pcs.) and remove F04 (Top Cover).
- (3) Loosen screws F05 (1 pce.) and F06 (3 pcs.) and remove F07 (Bottom Cover).

2.2. Front Panel Ass'y

Refer to Fig. 2.2.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01 and pull out knobs F02, F03 and F04.
- (3) Loosen F05 and remove F06 (Front Panel Ass'y including Cleaning Flap Ass'y).

2.3. Control P.C.B. Ass'y and Front Chassis

Refer to Fig. 2.2.

- (1) Remove the Front Panel Ass'y referring to item 2.2.
- (2) Loosen F07 and remove F08 (Control P.C.B. Ass'y).
- (3) Loosen F09 and F10 and remove F11, F12, F13 and F14.
- (4) Insert a small flat-blade screwdriver into the holes in the Main Chassis as shown in the figure and lift the upper part of the connector to unlock the flexible P.C.B. of the LCD Ass'y.
- (5) Disconnect connectors A and B and disassemble F15 (Front Chassis including LCD Ass'y, etc.).

2.4. Volume P.C.B. Ass'y

Refer to Fig. 2.2.

- (1) Remove the Front Chassis referring to item 2.3.
- (2) Loosen F16 and disassemble F17 and F18 (Volume P.C.B. Ass'y).

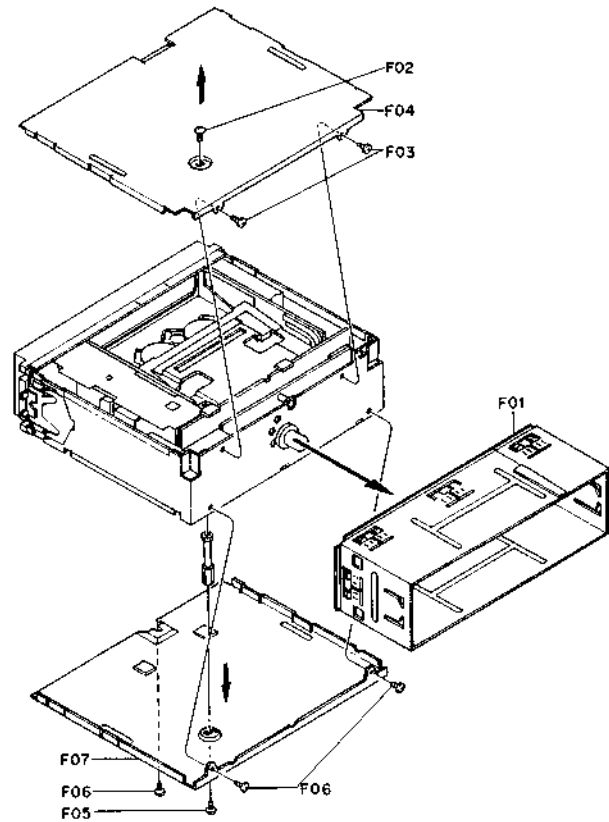


Fig. 2.1

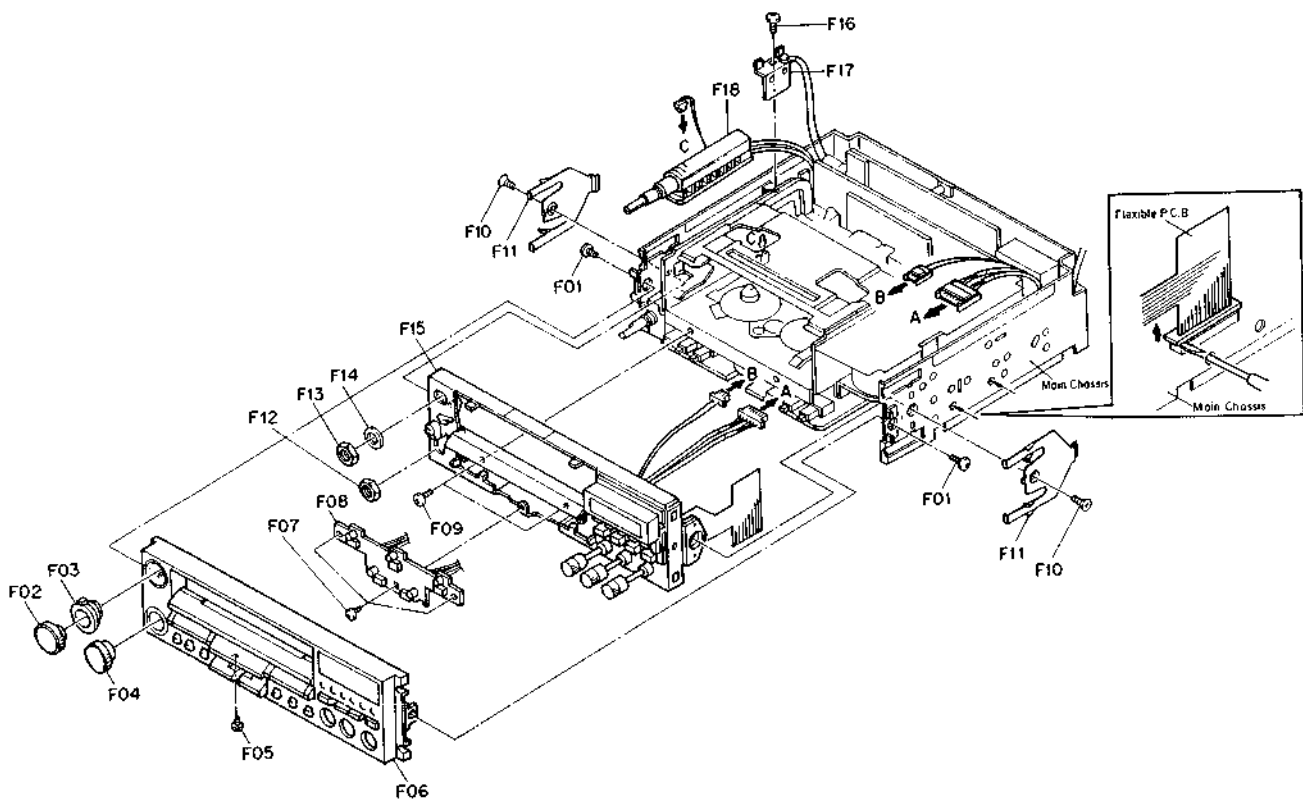


Fig. 2.2

2.5. Tuner P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01, disconnect connectors A and B, and remove F02 (Tuner P.C.B. Ass'y) and F03.

2.6. Motor P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F04 and disconnect connectors C, D, E and F.
- (3) Remove F05 (Motor P.C.B. Insulator) and F06 (Motor P.C.B. Ass'y).

2.7. Amp. P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Remove the Tuner P.C.B. Ass'y and Motor P.C.B. Ass'y referring to items 2.5 and 2.6.
- (3) Loosen F07 and disconnect connector G.
- (4) Lift F08 (Amp. P.C.B. Ass'y), disconnect connectors H, I and J, and remove F08 (Amp. P.C.B. Ass'y).

2.8. Transport Mechanism Ass'y

Refer to Fig. 2.4.

- (1) Remove the Front Chassis and the Volume P.C.B. Ass'y referring to items 2.3 and 2.4.
- (2) Loosen F01, remove F02, and lift F03 (Motor P.C.B. Ass'y).
- (3) Disconnect connectors A, B, C and D.
- (4) Pull out F04 (Amp. P.C.B. Ass'y) and disconnect connector E.
- (5) Loosen F05, lift F06 (Transport Mechanism Ass'y and Motor P.C.B. Ass'y), and disconnect connector F to separate F06.

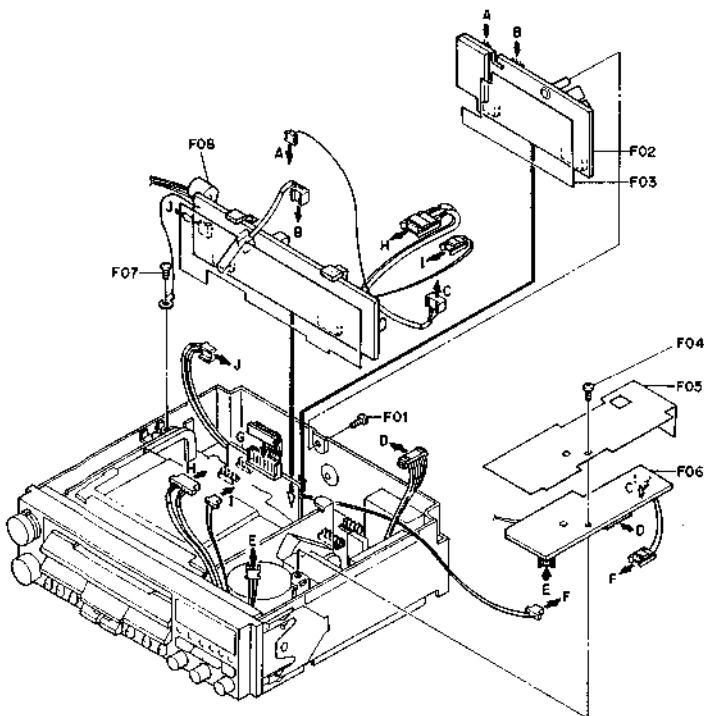


Fig. 2.3

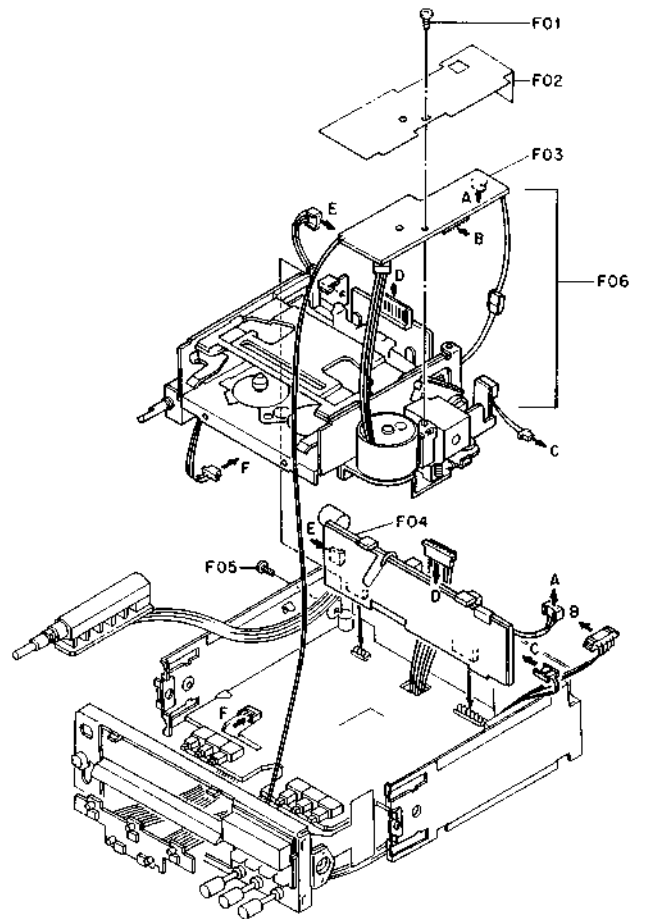


Fig. 2.4

3. TEST TAPES AND GAUGES

- (1) 1 kHz Track Alignment Tape (DA09007B)
- (2) 15 kHz Azimuth Tape (DA09004B)
- (3) 400 Hz Level Tape (DA09005B)
- (4) 3 kHz Speed & Wow/Flutter Tape (DA09006C)
- (5) Torque Gauge for Forward Playback (DA09082A)
- (6) Torque Gauge for F.F. & REW (DA09084A)
- (7) Head Alignment Gauge (DA09092A)

4. MECHANICAL ADJUSTMENTS

Note: Before adjustment, remove the Top and Bottom Covers referring to item 2.1.

4.1. Tape Speed Adjustment

Refer to Fig. 4.1.

- (1) Connect a frequency counter to Output Jack.
- (2) Load a 3 kHz Speed & Wow/Flutter Tape and play it back.
- (3) Adjust the potentiometer incorporated in the Main Motor Ass'y to obtain a 3 kHz reading on the frequency counter.

4.2. Tape Guide Height Adjustment

- (1) For Serial Nos.: C60405146 - (TD-500 & TD-500E) and C60601390 - (TD-500D)

Note: Remove the Cleaning Flap before loading the Head Alignment Gauge. When ejecting the Head Alignment Gauge pay attention so as not to strike against the Tape Slot Cover.

Refer to Fig. 4.2.

- (a) Turn the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Load a base of the Head Alignment Gauge carefully and set the Mobile Tuner/Cassette Deck in Play mode.
- (c) Place a small block of the Head Alignment Gauge on the base.
- (d) Slide the small block against the Supply Tape Guide, and adjust the Tape Guide Height Adjustment Screw so that the small block is accepted by the Supply Tape Guide.

- (2) For Serial Nos.: C60401001 - 05145 (TD-500 & TD-500E) and C60601001 - 01389 (TD-500D)

Refer to Fig. 4.3.

- (a) Set the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Connect a VTVM to the Output Jacks.
- (c) Load a 1 kHz Track Alignment Tape and play it back.
- (d) Turn the Tape Guide Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.

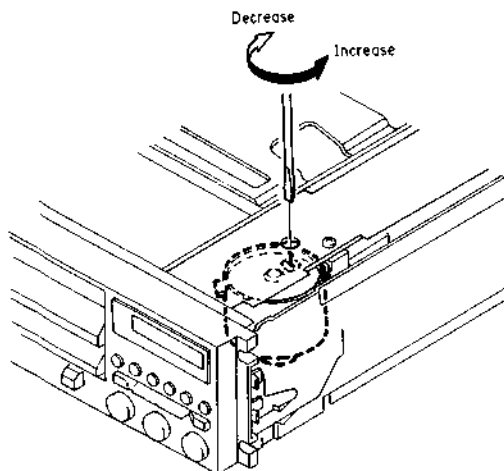


Fig. 4.1

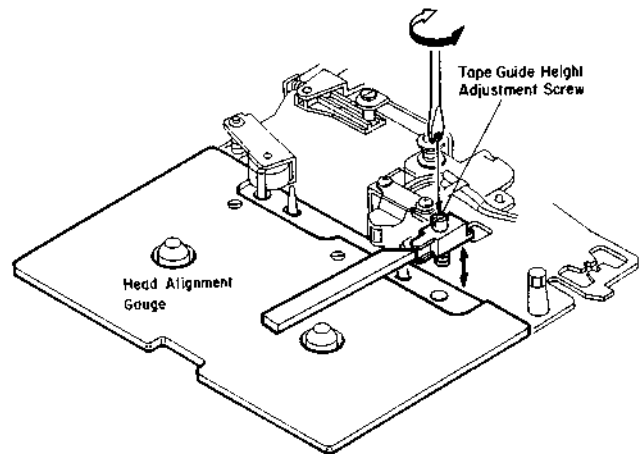


Fig. 4.2
Serial Nos.: C60405146 -
(TD-500 & TD-500E)
C60601390 - (TD-500D)

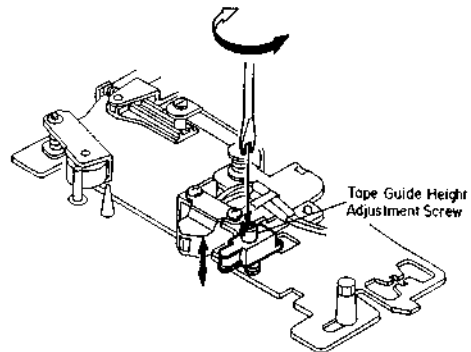


Fig. 4.3
Serial Nos.: C60401001 - 05145
(TD-500 & TD-500E)
C60601001 - 01389
(TD-500D)

4.3. Playback Head Height Adjustment and Azimuth Alignment

- (1) For Serial Nos.: C60405146 - (TD-500 & TD-500E) and C60601390 - (TD-500D)

Refer to Fig. 4.4.

- Connect a VTVM to the Output Jacks.
- Set the Azimuth Fine Tuning Control to the center position referring to 4.2.-(1)-(a).
- Load a 1 kHz Track Alignment Tape and play it back.
- Turn the Playback Head Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.
- Repeat above steps (c) through (f) one or two times to obtain optimum performance.

- (2) For Serial Nos.: C60401001 - 05145 (TD-500 & TD-500E) and C60601001 - 01389 (TD-500D)

Refer to Fig. 4.5.

- Connect a VTVM to the Output Jacks.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.

Note: Playback Head Height Adjustment Screw is not provided in these Models.

4.4. Torque Adjustment

Refer to Fig. 4.6.

- Load a Torque Gauge for Forward Playback.
- Set the Mobile Tuner/Cassette Deck in Play mode.
- Check whether the playback torque and back tension torque on the Gauge are as follows:
 Playback torque: 35 g-cm -5 to +10 g-cm
 Back tension torque: 2.5 g-cm -0.15 to +1 g-cm
- If the playback torque is out of the above range, turn the Playback Torque Adjustment Screw with a small flat-blade screwdriver to obtain a satisfactory result.
- Set the Mobile Tuner/Cassette Deck in Stop mode and then load a Torque Gauge for F.F. & REW.
- Set the Mobile Tuner/Cassette Deck in F.F. or Rewind mode and check that the torque is in the range shown below:
 F.F./Rewind torque: 60 g-cm -10 to +40 g-cm (50 to 100 g-cm)

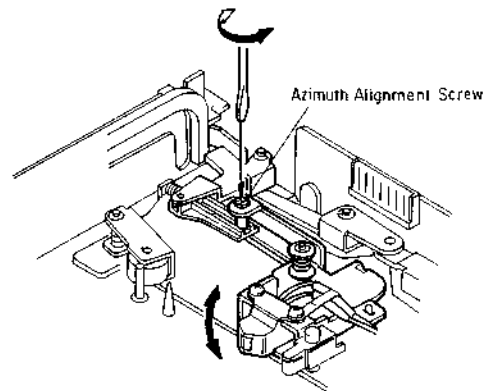
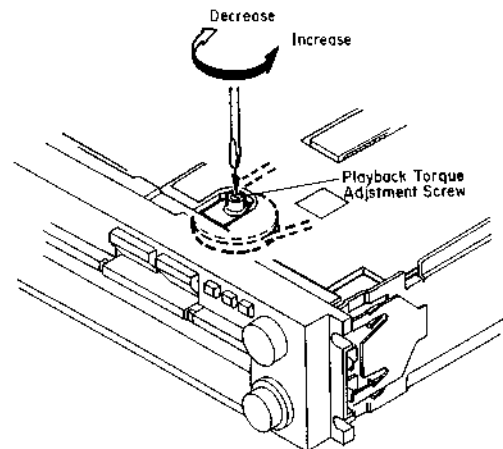


Fig. 4.5
Serial Nos.: C60401001 - 05145 (TD-500 & TD-500E) C60601001 - 01389 (TD-500D)



(Bottom View)

Fig. 4.6

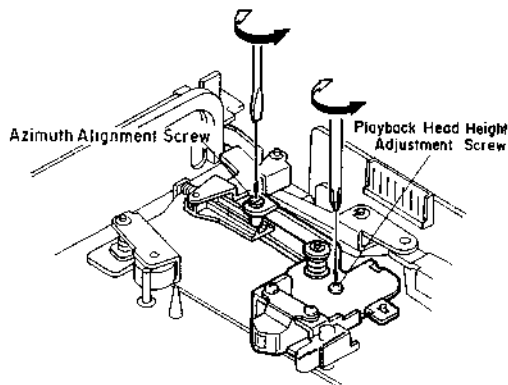


Fig. 4.4
Serial No.: C60405146 - (TD-500 & TD-500E) C60601390 - (TD-500D)

5. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

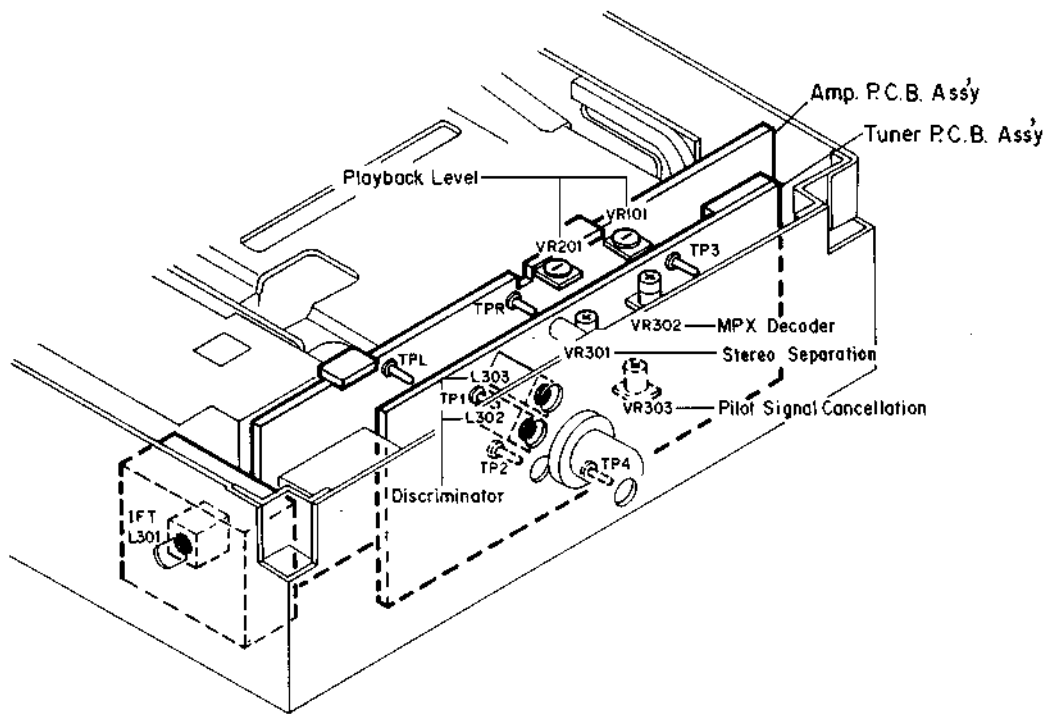


Fig. 5

6. ELECTRICAL ADJUSTMENTS

6.1. Cassette Deck Section

Note: Electrical adjustment should be performed after mechanical adjustment is completed.

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step			Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center		Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE).
2	Playback Level Adjustment	400 Hz Level Tape	VTVM to TPL, TPR on Amp. P.C.B.	Playback Eq. SW - 70 μ s	Amp. P.C.B. VR101 VR201	1. Load a 400 Hz level tape and play it back. 2. Adjust VR101 (VR201) to obtain 350 mV on the VTVM.

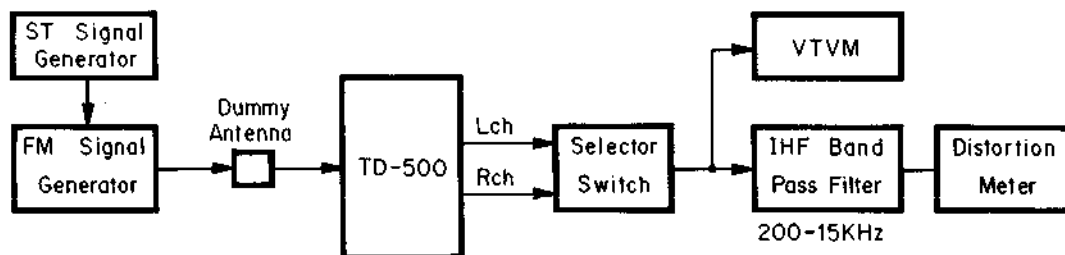


Fig. 6 Connection Diagram for FM Adjustment

6.2. Tuner Section (FM Adjustment)

Note: Adjustment should be made in a shielded room in principle.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS	STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step	See Fig. 6	Mobile Tuner/Cassette Deck Dolby NR - OFF Band Selector - FM Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation Signal - 1 kHz (Stereo/Mono) Modulation Ratio - (See REMARKS)		1. Connect necessary instruments to the Mobile Tuner/Cassette Deck referring to connection diagram (Fig. 6). 2. Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE). Modulation Ratio: Stereo TD-500 (U.S.A. & Canada): Audio 1 kHz 90%, Pilot 19 kHz 10% TD-500 (Australia & Others), TD-500E & TD-500D: Audio 1 kHz 50%, Pilot 19 kHz 10% Mono TD-500 (U.S.A. & Canada): Audio 1 kHz 100% TD-500 (Australia & Others), TD-500E & TD-500D: Audio 1 kHz 60%	5	Pilot Signal Cancellation Adjustment		Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Stereo	Tuner P.C.B. VR303	1. Set the modulation of the FM Generator as follows: o Cut audio signal 1 kHz o Apply only pilot 19 kHz 10% 2. Adjust VR303 to obtain minimum readings on the VTVM for both channels. The minimum reading should be less than -40 dB.
2	IFT Adjustment		Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono	Front-end IFT Coil L301	With decreasing the RF level gradually from 65 dBf to 30 dBf, adjust IFT coil L301 to obtain minimum distortion. (Do not turn other components on the Front-end.)	6	Stereo Separation	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Stereo	Tuner P.C.B. VR301	1. Cut the 1 kHz modulation of R channel of the stereo modulator. Namely, apply 1 kHz signal only to L channel. 2. Adjust VR301 to obtain minimum reading for R channel on the VTVM. 3. Apply 1 kHz signal only to R channel. 4. Adjust VR301 to obtain minimum reading for L channel on the VTVM. 5. Check whether the readings in 2 and 4 are less than -30 dB. If not, repeat 1 through 4 till satisfactory results are obtained.	
3	MPX Decoder Adjustment	Frequency Counter to TP3 on Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 0 dBf Modulation - Mono	Tuner P.C.B. VR302	1. Cut the RF signal applied to the Mobile Tuner/Cassette Deck. 2. Adjust VR302 to obtain 76 kHz \pm 1 kHz on the frequency counter.	7	Offset Voltage Check on IC301	DC Millivoltmeter across IC301-14 and GND on Tuner P.C.B. Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono		Note: This check will be required only if IF Amp. IC301 (LA1140) on the Tuner P.C.B. Ass'y is replaced with new one. At that time, conduct Step 3 (adjustment of L302 and L303 on Tuner P.C.B.) and then check the following: 1. Set the modulation signal of FM generator to 1 kHz (Mono). 2. Check whether the reading on the DC millivoltmeter is less than 5 mV. 3. If not, replace with another LA1140 and repeat above 1 and 2 after re-adjustment of Step 3.	
4	Discriminator Adjustment	DC Millivoltmeter between TP1 and TP2 on Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono	Tuner P.C.B. L302, L303	1. Turn L302 (black core) to obtain \pm 50 mV on the DC millivoltmeter. 2. Turn L303 (white core) to obtain minimum distortion on the distortion meter. 3. Repeat above 2 and 3 two or three times.						

7. MECHANISM ASS'Y AND PARTS LIST

7.1. Synthesis

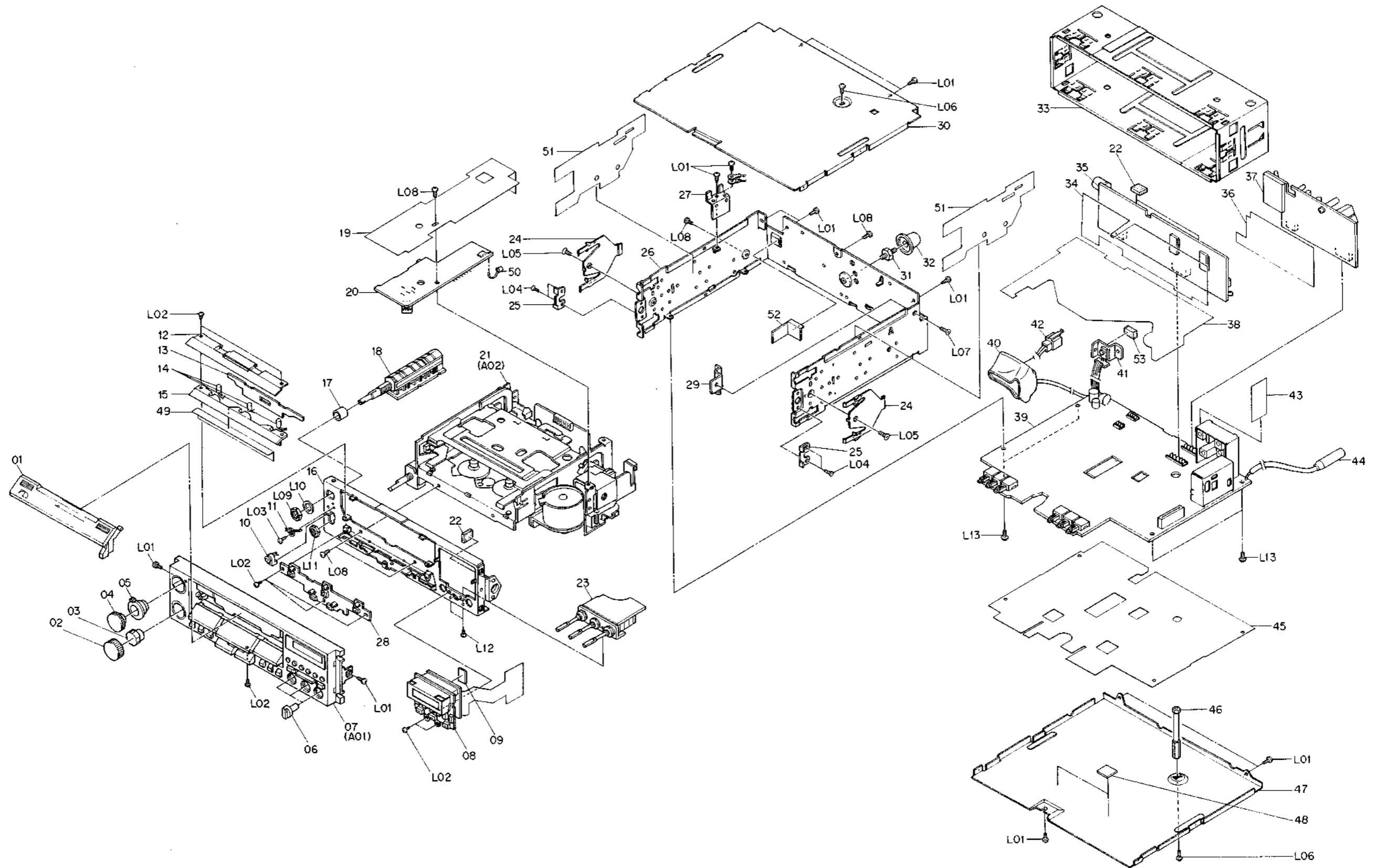


Fig. 7.1

Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
		Synthesis		37	BA05423A BA05424B	Tuner P.C.B. Ass'y TD-500 (Japan) Tuner P.C.B. Ass'y TD-500 (U.S.A. & Canada)	1 1
01	HA04780A	Cleaning Flap Ass'y TD-500	1		BA05458A	Tuner P.C.B. Ass'y TD-500 (Australia & Others), TD-500E & TD-500D	1
	HA04782A	Cleaning Flap Ass'y TD-500E	1				
	HA04781A	Cleaning Flap Ass'y TD-500D	1				
02	OH04455A	Azimuth Knob Cap	1				
03	HA04674A	Azimuth Knob Ass'y	1	38	OJ04882B	Insulator A	1
04	HA04875A	Volume Knob Ass'y	1	39	BA05615A	Logic P.C.B. Ass'y TD-500 (Japan) (Serial No.: C60405146 -)	1
05	OH04454A	Fader Knob	1		BA05616A	Logic P.C.B. Ass'y TD-500 (U.S.A. & Canada)	1
06	OH04456A	Tone Control Knob	3		BA05617A	Logic P.C.B. Ass'y TD-500 (Serial No.: C60405146 -) (Australia & Others) & TD-500E	1
07	HA04773A	Front Panel Ass'y TD-500 (Serial No.: C60404001 -)	1		BA05621A	Logic P.C.B. Ass'y TD-500D (Serial No.: C60601390 -)	1
	HA04774A	Front Panel Ass'y TD-500E (Serial No.: C60404001 -)	1		BA05406A	Logic P.C.B. Ass'y TD-500 (Japan) (Serial Nos.: C60401001 - 05145)	1
	HA04777A	Front Panel Ass'y TD-500D (Serial No.: C60601301 -)	1		BA05426A	Logic P.C.B. Ass'y TD-500 (U.S.A. & Canada)	1
	HA04676C	Front Panel Ass'y TD-500 (Serial Nos.: C60401001 - 04000)	1		BA05449A	Logic P.C.B. Ass'y TD-500 (Australia & Others) & TD-500E	1
	HA04678C	Front Panel Ass'y TD-500E (Serial Nos.: C60401001 - 04000)	1		BA05450A	Logic P.C.B. Ass'y TD-500D (Serial Nos.: C60601001 - 01389) (Logic P.C.B. Ass'y includes the following)	1
	HA04680C	Front Panel Ass'y TD-500D (Serial Nos.: C60601001 - 01300)	1				
08	BA05459A	LCD Ass'y TD-500 (Japan)	1				
	BA05460A	LCD Ass'y TD-500 (U.S.A. & Canada)	1				
	BA05461A	LCD Ass'y TD-500 (Australia & Others), TD-500E & TD-500D (LCD Ass'y includes the followings)	1				
09	(BA05516A)	(Buffer Amp. P.C.B. Ass'y (except for Japan))	(1)				
10	BA05435A	Illumination Lamp Ass'y	1	40	(BA05501A)	(Line Filter P.C.B. Ass'y)	(1)
11	OB70029A	Leaf Switch	1	41	(BA05497A)	(Transistor P.C.B. Ass'y)	(1)
12	OH04474B	Illuminator Cover	1	42	(OB81268B)	(4P Terminal TD-500 & TD-500E)	(1)
13	OB60121A	Control Lamp P.C.B.	1		(OB81272B)	(4P Terminal TD-500D)	(1)
14	OB90030A	Lamp 14V 65mA	3	43	OJ04898A	Tuner Insulator B	1
15	OH04670B	Illuminator B	1	44	OB81270A	Antenna Cable	1
16	OJ04851C	Front Chassis	1	45	OJ04863D	Insulator B	1
17	OJ04853A	Spacer	1	46	OJ04860B	Stud	1
18	BA05422A	Volume P.C.B. Ass'y TD-500 & TD-500E	1	47	OH04451G	Bottom Cover	1
	BA05466A	Volume P.C.B. Ass'y TD-500D	1	48	OJ04896A	Heat Sink Sheet	2
19	OJ04887B	Motor P.C.B. Insulator	1	49	OJ04897B	Illuminator B Sheet	1
20	BA05413B	Motor P.C.B. Ass'y	1	50	OB90021A	Band EG-9	1
21	CA08713A	Transport Mechanism Ass'y (Serial No.: C60405146 - (TD-500 & TD-500E)) (Serial No.: C60601390 - (TD-500D))	1	51	OJ04974C	Insulator C	2
	CA08662B	Transport Mechanism Ass'y (Serial Nos.: C60401001 - 05145 (TD-500 & TD-500E)) (Serial Nos.: C60601001 - 01389 (TD-500D))	1	52	OJ04895C	Wire Supporter	1
				53	OJ04899A	Cushion B	1
				-	OB41023A	Ceramic Capacitor 0.022μ 25V (TD-500)	1
				L01	OE03203A	ST2.6x5 ⊕ Binding	12
				L02	OE03204A	ST2x4 ⊕ Binding	8
				L03	OE00124A	M2x4 ⊕ Pan	1
				L04	OE03213A	ST2x4 ⊕ Countersunk	4
				L05	OE00533A	M3x5 ⊕ Countersunk	2
				L06	OE03072A	M2.6x6 ⊕ Binding	2
22	OJ04892A	Cushion A	3	L07	OE00007A	M2.6x5 ⊕ Countersunk	1
23	BA05612A	Tone Volume P.C.B. Ass'y (Serial No.: C60406001 - (TD-500 & TD-500E)) (Serial No.: C60601390 - (TD-500D))	1	L08	OE00791A	M2.6x5 ⊕ Binding	5
	BA05420A	Tone Volume P.C.B. Ass'y (Serial Nos.: C60401001 - 06000 (TD-500 & TD-500E)) (Serial Nos.: C60601001 - 01389 (TD-500D))	1	L09	-	Nut	(1)
				L10	-	Washer	(1)
				L11	OE03240A	Nut Hex. M7	1
				L12	OE03244A	M2x4 ⊕ Flat	2
				L13	OE03219A	ST2.6x6 ⊕ Binding	4
24	OJ04873B	Sleeve Lock Plate (except for Japan)	2				
25	OJ04864A	Sleeve Stopper (except for Japan)	2				
26	OH04449E	Main Chassis	1				
27	OJ04890A	Arm Protector	1				
28	BA05415A	Control P.C.B. Ass'y	1				
29	OJ04856A	Cable Holder	1				
30	OH04450F	Top Cover	1				
31	OJ04859B	Hold Screw (except for Japan)	1				
32	OJ04870A	Rubber Cap (except for Japan)	1				
33	OJ04852D	Mounting Sleeve (except for Japan)	1				
34	OJ04885B	Amp. P.C.B. Insulator	1				
35	BA05610A	Amp. P.C.B. Ass'y (Serial No.: C60406001 - (TD-500 & TD-500E)) (Serial No.: C60601390 - (TD-500D))	1				
	BA05417B	Amp. P.C.B. Ass'y (Serial Nos.: C60401001 - 06000 (TD-500 & TD-500E)) (Serial Nos.: C60601001 - 01389 (TD-500D))	1				
36	OJ04886B	Tuner P.C.B. Insulator	1				

7.2. Front Panel Ass'y (A01)

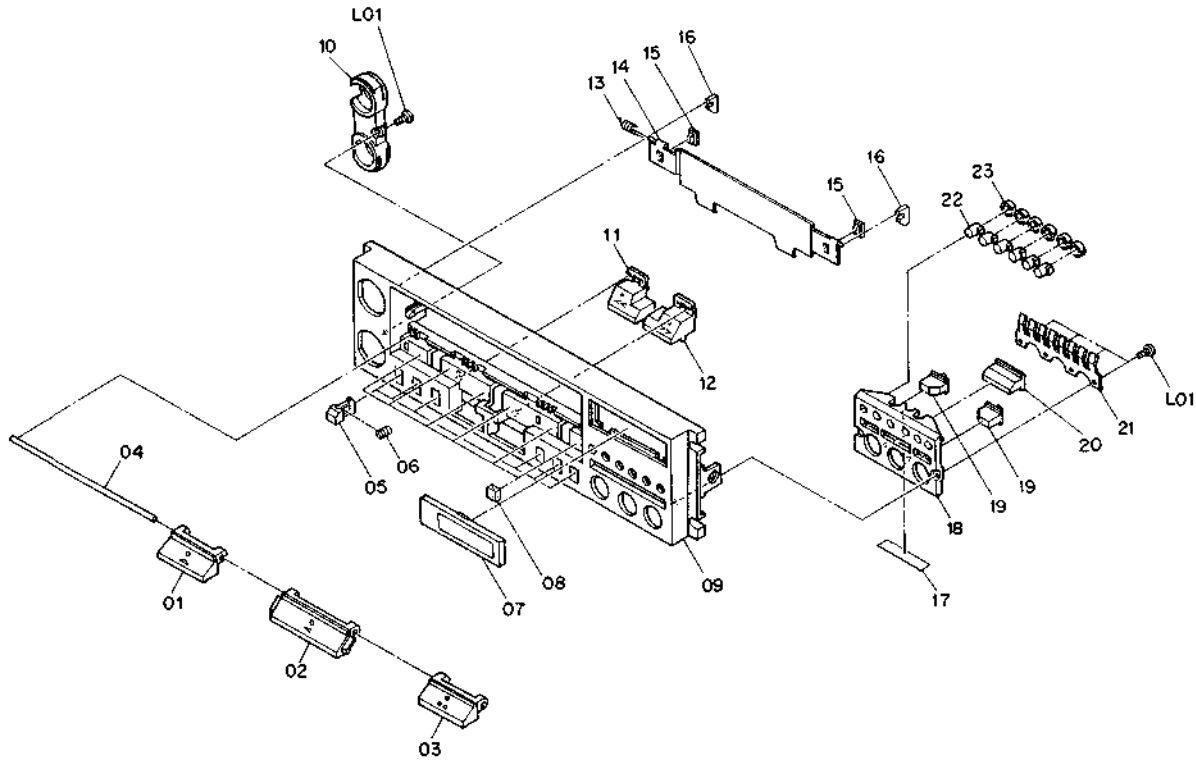


Fig. 7.2

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A01	HA04773A	Front Panel Ass'y TD-500	1	A01	HA04676C	Front Panel Ass'y TD-500	1
	HA04774A	Front Panel Ass'y TD-500E	1		HA04678C	Front Panel Ass'y TD-500E	1
	HA04777A	Front Panel Ass'y TD-500D	1		HA04680C	Front Panel Ass'y TD-500D	1
		Serial No.: C60404001 - C60601301 -				Serial Nos.: C60401001 - 04000 C60601001 - 01300	
01	HA04709A	Eject Button Ass'y	1	01	HA04709A	Eject Button Ass'y	1
02	HA04708A	Play Button Ass'y	1	02	HA04708A	Play Button Ass'y	1
03	HA04710A	Pause Button Ass'y	1	03	HA04710A	Pause Button Ass'y	1
04	0J04868A	Shaft	1	04	0J04868A	Shaft	1
05	HA04788A	Push Button Ass'y	6	05	HA04788A	Push Button Ass'y	6
06	0J04849A	Push Button Spring	6	06	0J04849A	Push Button Spring	6
07	OH04460B	LCD Lens	1	07	OH04460A	LCD Lens	1
08	0J04878A	Cushion	6	08	0J04878A	Cushion	6
09	OH04494C	Front Panel	1	09	OH04494C	Front Panel	1
10	OH04462B	Illuminator C	1	10	OH04462B	Illuminator C	1
11	HA04711A	FF Button Ass'y	1	11	HA04711A	FF Button Ass'y	1
12	HA04712A	Rewind Button Ass'y	1	12	HA04712A	Rewind Button Ass'y	1
13	0J04850B	Spring	1	13	0J04850B	Spring	1
14	OH04490C	Tape Slot Cover TD-500	1	14	OH04490C	Tape Slot Cover TD-500	1
	OH04504C	Tape Slot Cover TD-500E	1		OH04504C	Tape Slot Cover TD-500E	1
	OH04507C	Tape Slot Cover TD-500D	1		OH04507C	Tape Slot Cover TD-500D	1
15	OH04463C	Tape Slot Cover Protector	2	15	OH04463C	Tape Slot Cover Protector	2
16	0J04902A	Guide	2	16	0J04902A	Guide	2
17	0J04891A	Sheet	1	17	0J04891A	Sheet	1
18	OH04468B	Illuminator D	1	18	OH04468A	Illuminator D	1
19	OH04483A	Up/Down Button	2	19	OH04483A	Up/Down Button	2
20	OH04481A	Scan Button	1	20	OH04481A	Scan Button	1
21	0J04847A	Button Spring	1	21	0J04847A	Button Spring	1
22	OH04473A	Station Button	6	22	OH04473A	Station Button	6
23	0J04846B	Reflector	6	23	0J04846B	Reflector	6
L01	OE00961A	BT2x5 ⊕ Binding	5	L01	OE00961A	BT2x5 ⊕ Binding	5

7.3. Transport Mechanism Ass'y (A02)

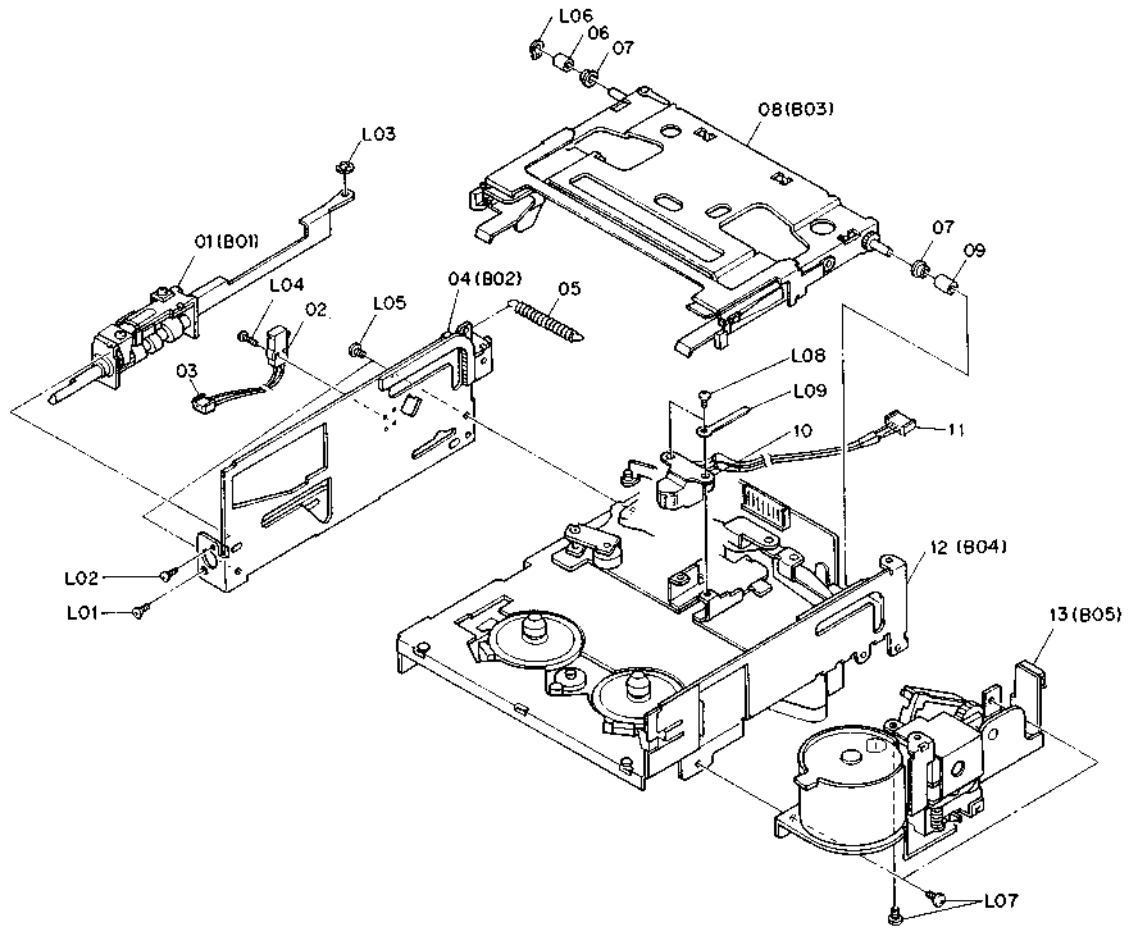


Fig. 7.3

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A02	CA08713A	Transport Mechanism Ass'y Serial No.: C60405146 - C60601390 -	1	A02	CA08662B	Transport Mechanism Ass'y Serial Nos.: C60401001 - 05145 C60601001 - 01389	1
01	CA08687A	Azimuth Controller Ass'y	1	01	CA08687A	Azimuth Controller Ass'y	1
02	0B70028A	Eject Switch	1	02	0B70028A	Eject Switch	1
03	0B82299B	2F Coupler	1	03	0B82299B	2F Coupler	1
04	CA08686A	Side Chassis Ass'y	1	04	CA08686A	Side Chassis Ass'y	1
05	0C08868A	Spring A	1	05	0C08868A	Spring A	1
06	0C08799A	Guide Collar B	1	06	0C08799A	Guide Collar B	1
07	0C08797A	Guide Roller A	2	07	0C08797A	Guide Roller A	2
08	CA08665A	Cassette Holder Ass'y	1	08	CA08665A	Cassette Holder Ass'y	1
09	0C08798A	Guide Collar C	1	09	0C08798A	Guide Collar C	1
10	GA02203B	P2C-3L Playback Head	1	10	GA02203B	P2C-3L Playback Head	1
11	0B82302A	4P-H Connector	1	11	0B82302A	4P-H Connector	1
12	CA08714A	Transport Mechanism Sub Ass'y	1	12	CA08664A	Transport Mechanism Sub Ass'y	1
13	CA08667A	Loading Mechanism Ass'y	1	13	CA08667A	Loading Mechanism Ass'y	1
L01	0E03189A	M2x3 Φ Countersunk (Black Chromate)	1	L01	0E03189A	M2x3 Φ Countersunk (Black Chromate)	1
L02	0E03216A	M1.4x2.5 Φ Pan (Black Chromate)	1	L02	0E03216A	M1.4x2.5 Φ Pan (Black Chromate)	1
L03	0E00222A	E-Ring 2mm	1	L03	0E00222A	E-Ring 2mm	1
L04	0E03185A	M1.7x6 Φ Pan	1	L04	0E03185A	M1.7x6 Φ Pan	1
L05	0E03186A	M2.6x2.8 Φ Pan (Black Chromate)	2	L05	0E03186A	M2.6x2.8 Φ Pan (Black Chromate)	2
L06	0E00839A	Grip 2.5mm	1	L06	0E00839A	Grip 2.5mm	1
L07	0E00120A	M2.6x3 Φ Pan (Black Chromate)	3	L07	0E00120A	M2.6x3 Φ Pan (Black Chromate)	3
L08	0E00783A	M2x3 Φ Pan (Black Chromate)	2	L08	0E00783A	M2x3 Φ Pan (Black Chromate)	2
L09	0C08858A	Wire Clamper	1	L09	0C08858A	Wire Clamper	1

7.4. Azimuth Controller Ass'y (B01)

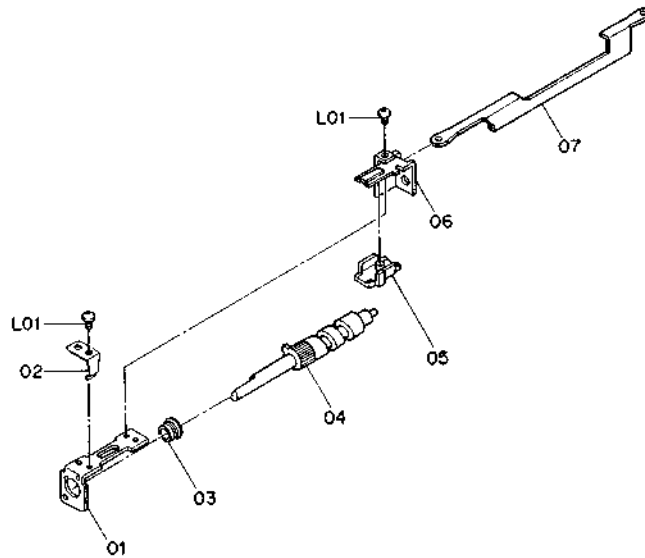


Fig. 7.4

7.5. Side Chassis Ass'y (B02)

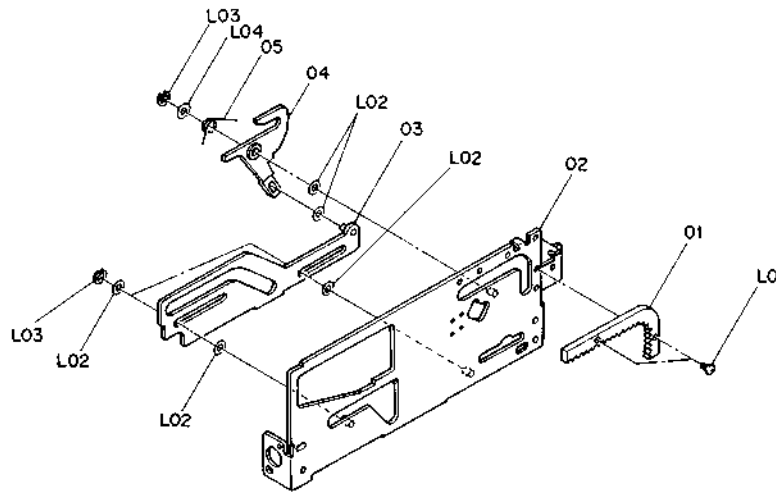


Fig. 7.5

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B01	CA08687A	Azimuth Controller Ass'y Serial No.: C60401001 - C60601001 -	1	B02	CA08686A	Side Chassis Ass'y Serial No.: C60401001 - C60601001 -	1
01	OC08850B	Azimuth Cam Holder A	1	01	OC08628B	Rack Rail L	1
02	OC08856A	Plate Spring	1	02	CA08685A	Side Chassis L Ass'y	1
03	OC08896A	Cam Holder	1	03	CA08643B	G-Shaped Plate Ass'y	1
04	OC08777B	Azimuth Cam B	1	04	CA08644A	Slide Arm Ass'y	1
05	OC08854A	Joint Pin	1	05	OC08876A	Slide Arm Spring	1
06	OC08851B	Azimuth Cam Holder B	1	L01	OE03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	2
07	OC08853A	Joint Bar	1	L02	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	6
L01	OE00922A	M2x3 ⊕ Pan (Black Chromate)	2	L03	OE00222A	E-Ring 2mm	3
				L04	OE08180A	Mylar Washer 2.6mm 2.6x6x0.25	1

7.6. Cassette Holder Ass'y (B03)

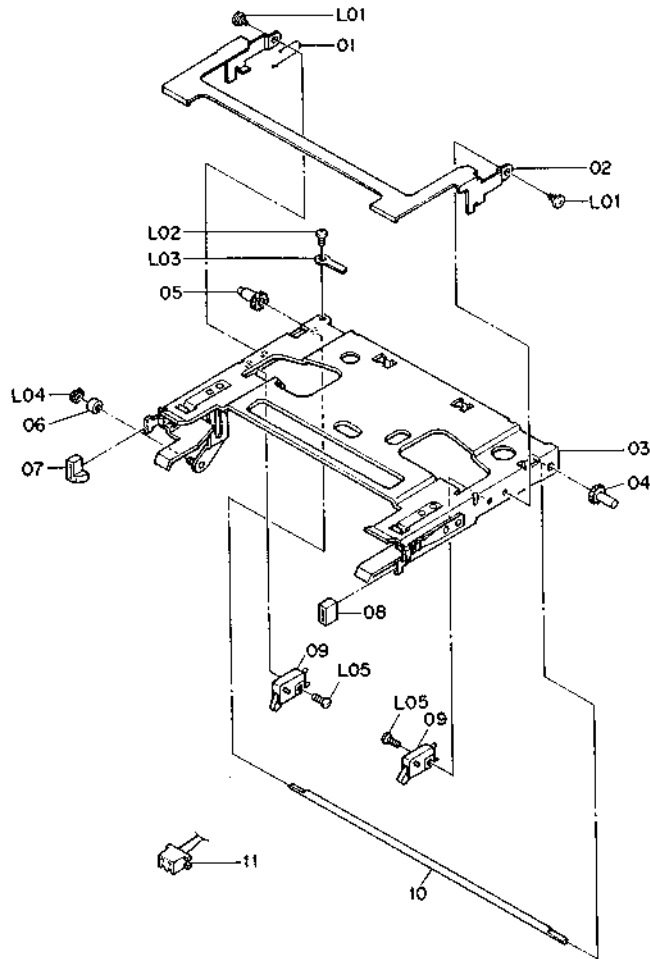


Fig. 7.6

Schematic Ref. No.	Part No.	Description	Qty
B03	CA08665A	Cassette Holder Ass'y Serial No.: C60401001 - C60601001 -	1
01	0C08890C	Plate Spring	1
02	0C08860F	Plate	1
03	CA08674D	Cassette Holder Sub Ass'y	1
04	0C08847A	Pinion Gear R	1
05	0C08846A	Pinion Gear L	1
06	0C08786A	Roller 1.5x4x2.5	1
07	0C08888B	Cassette Guide L	1
08	0C08887B	Cassette Guide R	1
09	0B70001A	Leaf Switch	2
10	0C08800B	Pinion Shaft	1
11	0B82301A	2P Coupler	1
L01	0E03208A	M1.4x2.55 ♂	2
L02	0E03190A	ST1.7x3 ♂ Pan (Black Chromate)	1
L03	0E00905A	Earth Lug 2mm	1
L04	0E00165A	E-Ring 1.2mm	1
L05	0E03184A	M1.7x5.5 ♂ Pan (Black Chromate)	2

7.7. Transport Mechanism Sub Assy (B04)

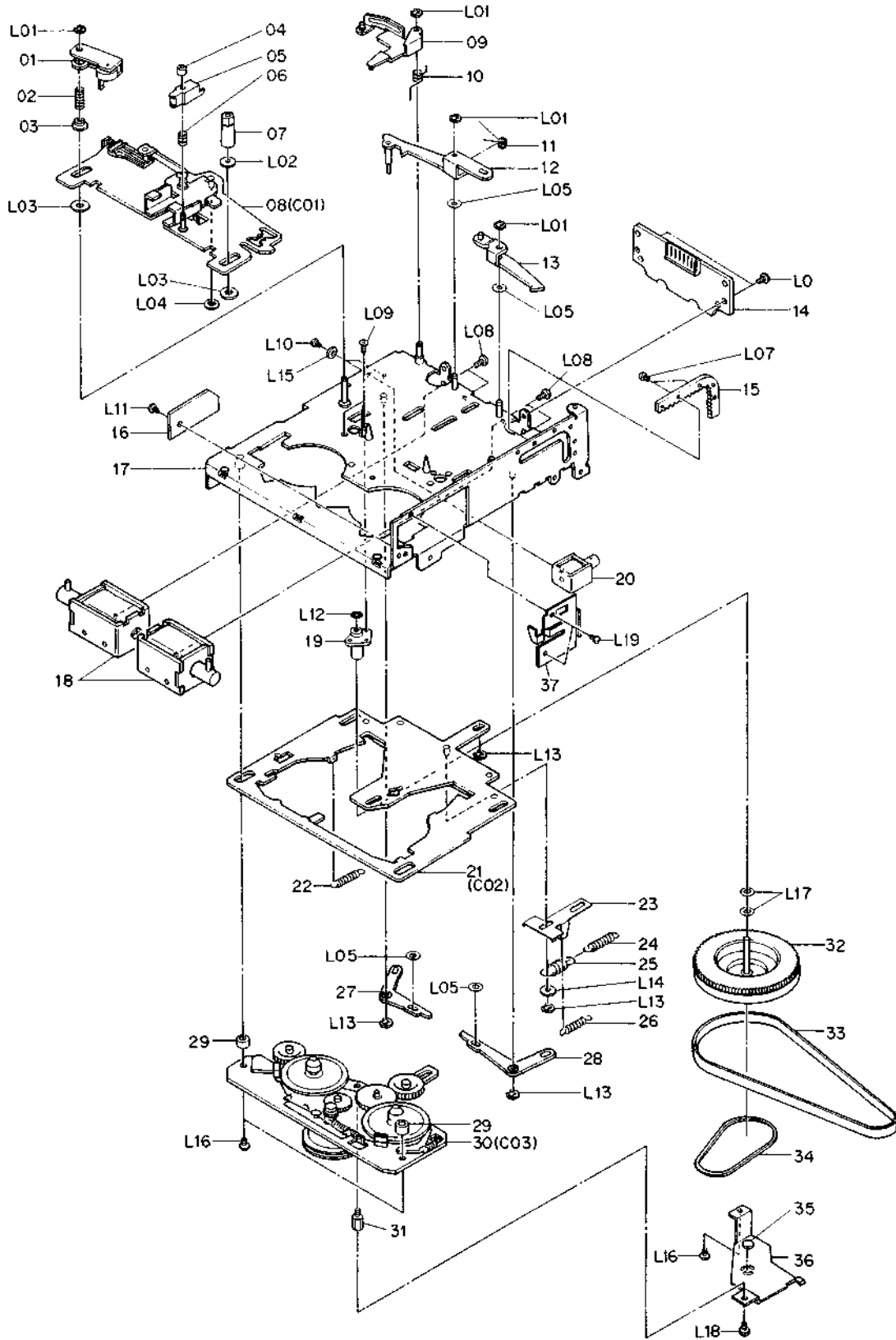


Fig. 7.7

Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
B04	CA08714A	Transport Mechanism Sub Ass'y Serial No.: C60405146 - C60601390 -	1	B04	CA08664A	Transport Mechanism Sub Ass'y Serial Nos.: C60401001 - 05145 C60601001 - 01389	1
01	CA08617B	Take-up Pressure Roller Arm Ass'y	1	01	CA08617B	Take-up Pressure Roller Arm Ass'y	1
02	OC08878A	Pressure Roller Adjust Spring	1	02	OC08878A	Pressure Roller Adjust Spring	1
03	OC08689A	Roller Arm Sleeve	1	03	OC08689A	Roller Arm Sleeve	1
04	OC08399C	Tape Guide Height Adjust Nut	1	04	OC08399C	Tape Guide Height Adjust Nut	1
05	OC08755B	Tape Guide	1	05	OC08755B	Tape Guide	1
06	OC08885A	Tape Guide Spring	1	06	OC08885A	Tape Guide Spring	1
07	OC08825A	Stud	1	07	OC08825A	Stud	1
08	CA08679A	Head Slider Ass'y	1	08	CA08679A	Head Slider Ass'y	1
09	CA08656A	Azimuth Arm Ass'y	1	09	CA08656A	Azimuth Arm Ass'y	1
10	OC08891A	Azimuth Arm Spring	1	10	OC08891A	Azimuth Arm Spring	1
11	OC08867A	Lock Plate Spring	1	11	OC08867A	Lock Plate Spring	1
12	CA08622D	Play Lock Plate Ass'y	1	12	CA08622D	Play Lock Plate Ass'y	1
13	CA08623C	Rew Lock Plate Ass'y	1	13	CA08623C	Rew Lock Plate Ass'y	1
14	BA05430A	Solenoid P.C.B. Ass'y	1	14	BA05430A	Solenoid P.C.B. Ass'y	1
15	OC08829B	Rack Gear	1	15	OC08829B	Rack Gear	1
16	OC08817B	Guide Plate	1	16	OC08817B	Guide Plate	1
17	CA08657F	Mechanism Chassis Ass'y	1	17	CA08657F	Mechanism Chassis Ass'y	1
18	OB90027B	Main Solenoid	2	18	OB90027B	Main Solenoid	2
19	CA08629A	Take-up Flange Metal Ass'y	1	19	CA08629A	Take-up Flange Metal Ass'y	1
20	OB90028B	Lock Solenoid	1	20	OB90028B	Lock Solenoid	1
21	CA08678A	Master Plate Ass'y	1	21	CA08678A	Master Plate Ass'y	1
22	OC08998A	Take-up Pressure Roller Spring	1	22	OC08998A	Take-up Pressure Roller Spring	1
23	OC08679D	Centering Plate	1	23	OC08679D	Centering Plate	1
24	OC08881A	Control Plate Spring	1	24	OC08881A	Control Plate Spring	1
25	OC08880B	Head Base Spring	1	25	OC08880B	Head Base Spring	1
26	OC08877A	Centering Spring	1	26	OC08877A	Centering Spring	1
27	CA08612B	Solenoid Arm L Ass'y	1	27	CA08612B	Solenoid Arm L Ass'y	1
28	CA08613B	Solenoid Arm R Ass'y	1	28	CA08613B	Solenoid Arm R Ass'y	1
29	OC08703A	Slide Base Collar	2	29	OC08703A	Slide Base Collar	2
30	CA08715A	Reel Mechanism Ass'y	1	30	CA08680A	Reel Mechanism Ass'y	1
31	OC08807A	Thrust Stud	1	31	OC08807A	Thrust Stud	1
32	CA08609C	Take-up Flywheel Ass'y	1	32	CA08609C	Take-up Flywheel Ass'y	1
33	OC08782A	Capstan Belt	1	33	OC08782A	Capstan Belt	1
34	OC08783A	V Pulley Belt	1	34	OC08783A	V Pulley Belt	1
35	OC08692A	Thrust Plate	1	35	OC08692A	Thrust Plate	1
36	OC08751A	Flywheel Plate	1	36	OC08751A	Flywheel Plate	1
37	OJ04901B	Cover Plate	1	37	OJ04901B	Cover Plate	1
L01	OE00042A	E-Ring 1.5mm	4	L01	OE00042A	E-Ring 1.5mm	4
L02	OE03191A	Washer 2.5x6.5x0.5	1	L02	OE03191A	Washer 2.5x6.5x0.5	1
L03	OC08826C	Slide Washer A	2	L03	OC08826C	Slide Washer A	2
L04	OC08827B	Slide Washer B	1	L04	OC08827B	Slide Washer B	1
L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4	L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4
L06	OE03197A	M2.6x4 @ Pan (Black Chromate)	2	L06	OE03197A	M2.6x4 @ Pan (Black Chromate)	2
L07	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	2	L07	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	2
L08	OE03241A	M3x4 @ Binding	4	L08	OE03241A	M3x4 @ Binding	4
L09	OE03189A	M2x3 @ Countersunk (Black Chromate)	3	L09	OE03189A	M2x3 @ Countersunk (Black Chromate)	3
L10	OE03246A	M1.6x3 @ Pan (Black Chromate)	2	L10	OE03246A	M1.6x3 @ Pan (Black Chromate)	2
L11	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	1	L11	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	1
L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1	L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1
L13	OE00222A	E-Ring 2mm	4	L13	OE00222A	E-Ring 2mm	4
L14	OE03206A	Nylon Washer 3.1mm 3.1x6x0.5	1	L14	OE03206A	Nylon Washer 3.1mm 3.1x6x0.5	1
L15	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2	L15	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2
L16	OE00120A	M2.6x3 @ Pan	3	L16	OE00120A	M2.6x3 @ Pan	3
L17	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	2	L17	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	2
L18	OE03242A	M2.6x3 Hex. Socket Head	1	L18	OE03242A	M2.6x3 Hex. Socket Head	1
L19	OE03243A	M2x2.5 @ Pan	2	L19	OE03243A	M2x2.5 @ Pan	2

7.8. Loading Mechanism Ass'y (B05)

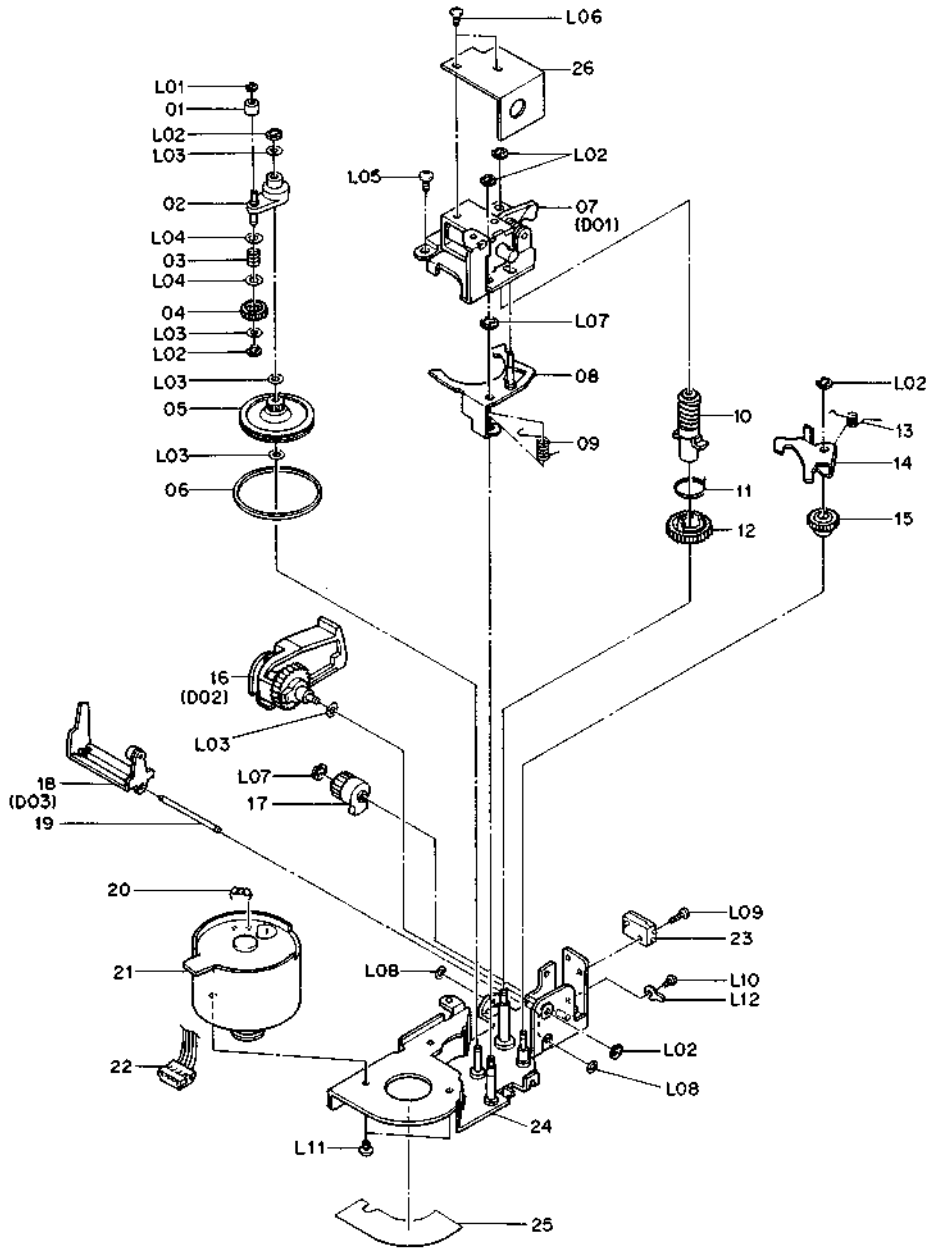


Fig. 7.8

Schematic Ref. No.	Part No.	Description	Qty
B05	BA08667A	Loading Mechanism Ass'y Serial No.: C60401001 - C60601001 -	1
01	OC08812A	Idler Roller L	1
02	CA08655B	P Arm L Ass'y	1
03	OC08872A	Function Spring	1
04	OC08840D	Idle Gear L	1
05	OC08842B	Loading Pulley	1
06	OC08784B	Loading Belt	1
07	CA08677A	Solenoid Plate Ass'y	1
08	CA08654B	Eject Arm Ass'y	1
09	OC08874A	Eject Arm Spring	1
10	OC08844C	Worm Gear	1
11	OC08873B	Flexible Spring	1
12	OC08839B	Loading Gear A	1
13	OC08871A	Loading Arm Spring C	1
14	OC08831B	Loading Arm C	1
15	OC08841B	Eject Gear	1
16	CA08675A	Loading Arm Ass'y	1
17	OC08789B	Head Base Cam Gear	1
18	CA08676A	Head Base Arm Ass'y	1
19	OC08793A	Head Base Arm Shaft	1
20	0B09629A	Carbon Resistor 10K 1/6W J	1
21	CA08652B	Main Motor Ass'y	1
22	0B82308A	4P-H Connector	1
23	0B70001A	Loading Switch	1
24	CA08653C	Motor Chassis Ass'y	1
25	0J04893A	Tone Volume Insulator	1
26	OC08893B	Solenoid Protector	1
L01	0E03182A	E-Ring 0.8mm	1
L02	0E00042A	E-Ring 1.5mm	6
L03	0E03061A	Mylar Washer 2.1mm 2.1x4x0.25	5
L04	0E03209A	Mylar Washer 3.1mm 3.1x4.9x0.125	2
L05	0E00226A	M2.6x4 @ Pan	1
L06	0E00922A	M2x3 @ Pan	2
L07	0E00222A	E-Ring 2mm	2
L08	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	2
L09	0E03185A	M1.7x6 @ Pan (Black Chromate)	1
L10	0E03183A	M1.7x2.2 @ Pan (Black Chromate)	1
L11	0E03186A	M2.6x2.8 @ Pan (Black Chromate)	2
L12	0E00905A	Earth Lug B	1
C01	CA08679A	Head Slider Ass'y Serial No.: C60401001 - C60601001 -	1
01	OC08879A	Head Hold Spring	1
02	OC08688B	Azimuth Screw	1
03	OC08749E	Head Mount Plate	1
04	OC08466A	Slide Cam Spring	1
05	OC08708A	Azimuth Adjust Plate	1
06	CA08635D	Head Base Ass'y	1
L01	0E00042A	E-Ring 1.5mm	1
L02	0E03191A	Washer 2.5mm 2.5x6.5x0.5	2
L03	0E03272A	PL1.7x3.5 @ Pan	1
C02	CA08678A	Master Plate Ass'y Serial No.: C60401001 - C60601001 -	1
01	CA08632E	Control Plate Ass'y	1
02	CA08615A	RF Selector Arm R Ass'y	1
03	CA08614A	FR Selector Arm L Ass'y	1
04	OC08705A	Drive Pin	1
05	OC08678A	FR Selector Plate	1
06	OC08882A	FF Limiter Spring	1
L01	0E00222A	E-Ring 2mm	2
L02	0E03196A	Mylar Washer 2.6mm 2.6x5x0.125	2
L03	0E00042A	E-Ring 1.5mm	1

7.9. Head Slider Ass'y (C01)

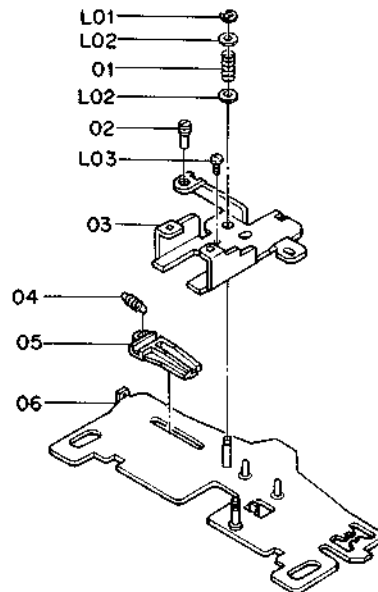


Fig. 7.9

7.10. Master Plate Ass'y (C02)

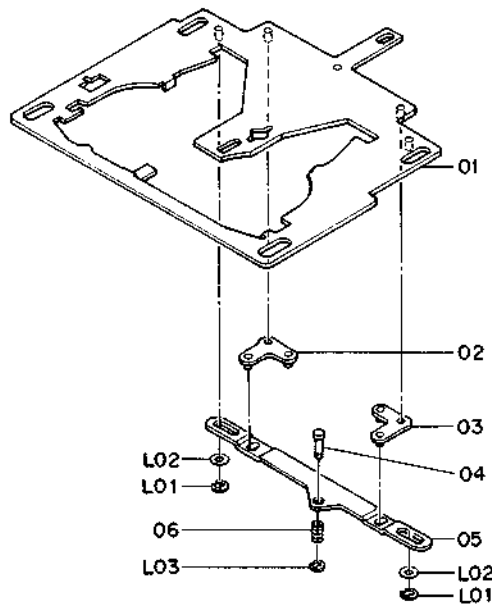


Fig. 7.10

7.11. Reel Mechanism Ass'y (C03)

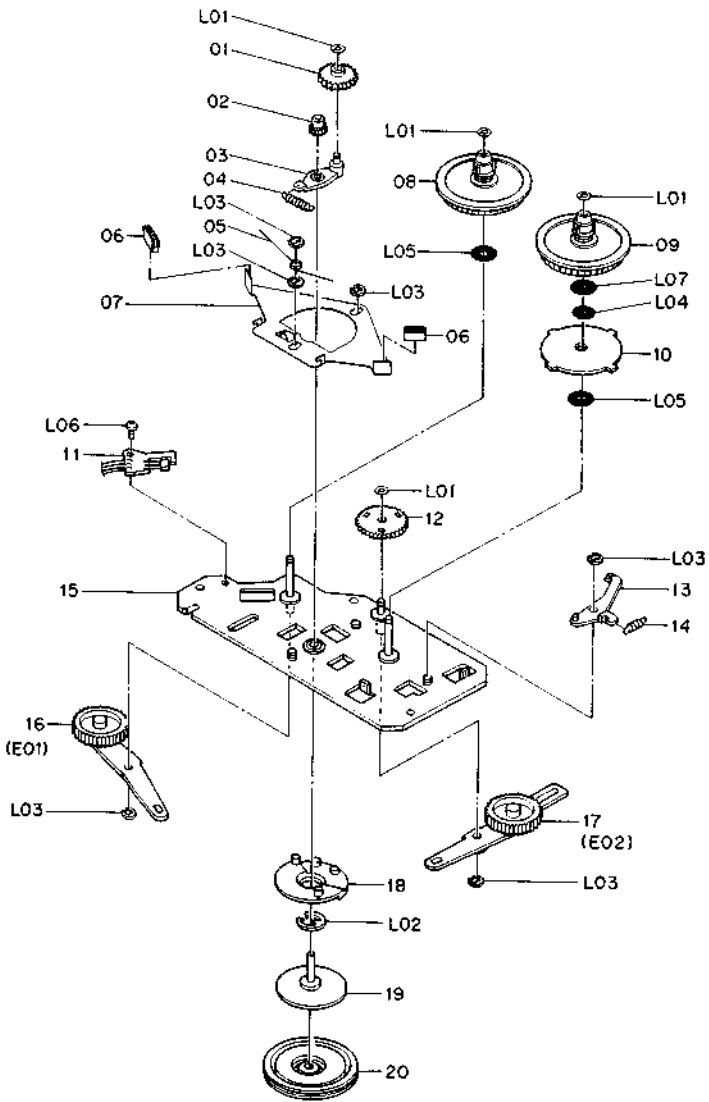


Fig. 7.11

7.12. Solenoid Plate Ass'y (D01)

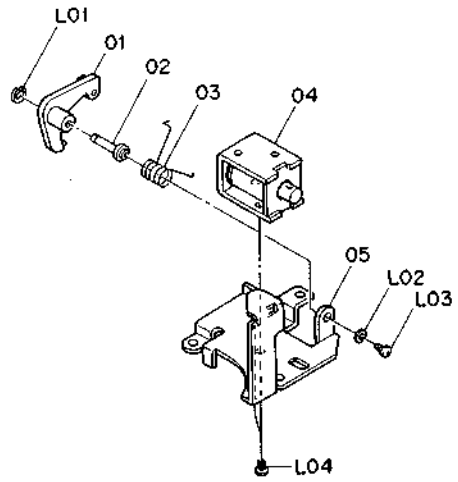


Fig. 7.12

7.13. Loading Arm Ass'y (D02)

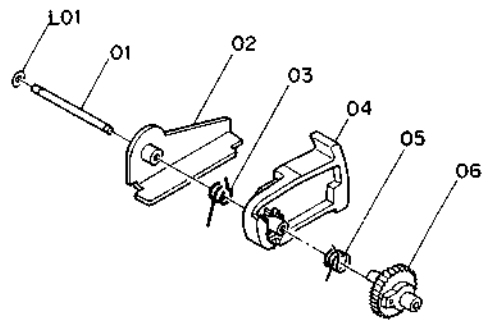


Fig. 7.13

7.14. Head Base Arm Ass'y (D03)

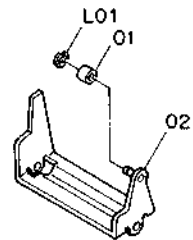


Fig. 7.14

7.15. FF Arm Ass'y (E01)

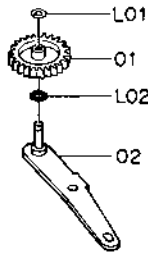


Fig. 7.15

7.16. Rewind Arm Ass'y (E02)

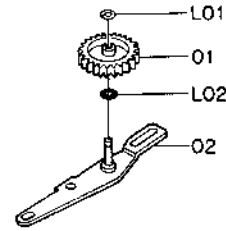


Fig. 7.16

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
C03	CA08715A	Reel Mechanism Ass'y Serial No.: C60405146 - C60601390 -	1	D01	CA08677A	Solenoid Plate Ass'y Serial No.: C60401001 - C60601001 -	1
01	OC08727A	Idler Gear	1	01	OC08834B	Stop Arm L	1
02	OC08676B	Pinion Gear	1	02	OC08838A	Stop Arm Shaft	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	03	OC08875A	Stop Arm Spring	1
04	OC08866A	Pivot Suspension Arm Spring	1	04	0E90029A	Eject Solenoid	1
05	OC08864B	Brake Spring	1	05	OC08833A	Solenoid Plate	1
06	OC08690A	Brake Shoe	2	L01	0E00222A	E-Ring 2mm	1
07	OC08723B	RB Plate	1	L02	0E03199A	Washer 1.8mm	1
08	CA08639F	Take-up Reel Hub Ass'y	1	L03	0E03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	1
09	CA08640F	Supply Reel Hub Ass'y	1	L04	0E00922A	M2x3 ⊕ Pan (Black Chromate)	2
10	OC08743A	Back Tension Disc	1	D02	CA08675A	Loading Arm Ass'y Serial No.: C60401001 - C60601001 -	1
11	BA05614B	Shut-off P.C.B. Ass'y	1	01	OC08795B	Main Shaft L	1
12	OC08729B	Idler Gear	1	02	CA08645A	Loading Arm B Ass'y	1
13	OC08709A	Back Tension Arm	1	03	OC08870A	Loading Arm Spring B	1
14	OC08865A	Back Tension Arm Spring	1	04	OC08801B	Loading Arm A	1
15	CA08634D	Reel Chassis Ass'y	1	05	OC08869C	Loading Arm Spring A	1
16	CA08672A	FF Arm Ass'y	1	06	OC08791B	Loading Gear B	1
17	CA08671A	Rewind Arm Ass'y	1	L01	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
18	OC08778A	FR Drum	1	D03	CA08676A	Head Base Arm Ass'y Serial No.: C60401001 - C60601001 -	1
19	CA08631A	Clutch Disc Ass'y	1	01	OC08786A	Roller 1.5x4x2.5	1
20	CA08673A	Magnet Clutch Pulley Ass'y	4	02	CA08642B	Head Base Arm Sub Ass'y	1
L01	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4	L01	0E00165A	E-Ring 1.2mm	1
L02	0E00104A	E-Ring 5mm	1	E01	CA08672A	FF Arm Ass'y Serial No.: C60401001 - C60601001 -	1
L03	0E00042A	E-Ring 1.5mm	6	01	OC08731A	F Idler A	1
L04	0E03195A	Nylon Washer 3.6mm 3.6x6x0.25	1	02	CA08626C	FF Arm Sub Ass'y	1
L05	0E03193A	Nylon Washer 2.1mm 2.1x7x0.25	2	L01	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
L06	0E00922A	M2x3 ⊕ Pan	1	L02	0E03187A	Nylon Washer FT20 2.1x4.0x0.25	1
L07	0E03239A	Nylon Washer 3.6mm 3.6x7x0.13	1	E02	CA08671A	Rewind Arm Ass'y Serial No.: C60401001 - C60601001 -	1
C03	CA08680A	Reel Mechanism Ass'y Serial Nos.: C60401001 - 05145 C60601001 - 01389	1	01	OC08731A	F Idler A	1
01	OC08727A	Idler Gear	1	02	CA08624B	Rewind Arm Sub Ass'y	1
02	OC08676B	Pinion Gear	1	L01	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	L02	0E03187A	Nylon Washer FT20 2.1x4.0x0.25	1
04	OC08866A	Pivot Suspension Arm Spring	1				
05	OC08864B	Brake Spring	1				
06	OC08690A	Brake Shoe	2				
07	OC08723B	RB Plate	1				
08	CA08639F	Take-up Reel Hub Ass'y	1				
09	CA08640F	Supply Reel Hub Ass'y	1				
10	OC08743A	Back Tension Disc	1				
11	BA05429A	Shut-off P.C.B. Ass'y	1				
12	OC08729B	Idler Gear	1				
13	OC08709A	Back Tension Arm	1				
14	OC08865A	Back Tension Arm Spring	1				
15	CA08634D	Reel Chassis Ass'y	1				
16	CA08672A	FF Arm Ass'y	1				
17	CA08671A	Rewind Arm Ass'y	1				
18	OC08778A	FR Drum	1				
19	CA08631A	Clutch Disc Ass'y	1				
20	CA08673A	Magnet Clutch Pulley Ass'y	1				
L01	0E03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4				
L02	0E00104A	E-Ring 5mm	1				
L03	0E00042A	E-Ring 1.5mm	6				
L04	0E03195A	Nylon Washer 3.6mm 3.6x6x0.25	1				
L05	0E03193A	Nylon Washer 2.1mm 2.1x7x0.25	2				
L06	0E00922A	M2x3 ⊕ Pan	1				
L07	0E03239A	Nylon Washer 3.6mm 3.6x7x0.13	1				

8. MOUNTING DIAGRAMS AND PARTS LIST

- Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.
 2. Diode is MA221 or RLS-73 unless otherwise specified.
 3. Following transistors are interchangeable with each other.
 2SC945, 2SC536SP, 2SC2458, 2SC2785
 4. Abbreviation for part name:
 TR — Transistor, SiD — Silicon Diode, ZD — Zener Diode
 RK — Carbon Resistor, RM — Metal Film Resistor, RF — Fail Safe Type Resistor
 CE — Electrolytic Capacitor, CM — Mylar Capacitor, CC — Ceramic Capacitor, CP — PP Capacitor,
 CT — Tantalum Capacitor

8.1. Line Filter P.C.B. Ass'y

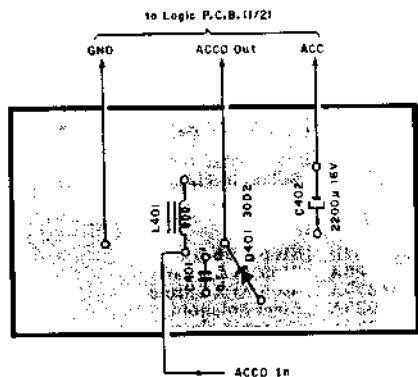


Fig. 8.1

8.2. Transistor P.C.B. Ass'y

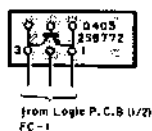


Fig. 8.2

8.3. Shut-off P.C.B. Ass'y



Fig. 8.3

8.4. Lamp P.C.B. Ass'y

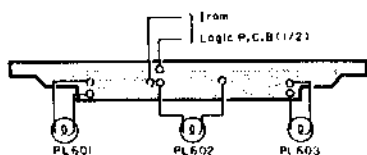


Fig. 8.4

8.5. Solenoid P.C.B. Ass'y

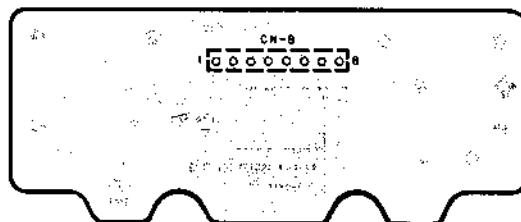


Fig. 8.5

Schematic Ref. No.	Part No.	Description
D401 L401 C401 C402	BA05501A	Line Filter P.C.B. Ass'y
	OB60126B	Line Filter P.C.B.
	OB06458A	SiD 30D-2
	OB06707A	Choke Coil
	OB09292A	CC 0.1μ 50V Z
	OB09884A	CE 2200μ 16V
	OB80068B	GND Cable (1)
Q405 FC1	OB80069A	ACC Cable (1)
	OB90019A	SK Binder (2)
	BA05497A	Transistor P.C.B. Ass'y
	OB60123A	Transistor P.C.B.
	OB06303A	TR 2SB772 (P,Q)
	OB82346A	Flat Cable 3P 120mm
	OJ04855B	Wire Holder (1)
OE00507A	Nut Hex. M3 (1)	
OE00510A	M3x8 @ Pan (2A) (1)	
IC604 CN9	BA05614B	Shut-off P.C.B. Ass'y Serial No.: C60405146 - C60601390 -
	OB60103B	Shut-off P.C.B.
	OB11062A OB82358A	Hall IC DN6838 3P-H Connector 50mm
IC604 CP3	BA05429A	Shut-off P.C.B. Ass'y Serial No.: C60401001 - 05145 C60601001 - 01389
	OB60103A OB11062A OB82297B	Shut-off P.C.B. Hall IC DN6838 3P Coupler
	PL601,602 603	BA05484A
OB60121A OB90030A		Lamp P.C.B. Lamp 65mA 14V
OH04670B		Illuminator B (1)
CN8	BA05430A	Solenoid P.C.B. Ass'y
	OB60117B OB81042A	Solenoid P.C.B. 8P-S Post

8.6. Buffer Amp. P.C.B. Ass'y

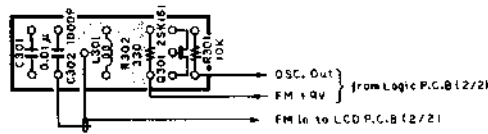


Fig. 8.6

8.7. Control P.C.B. Ass'y

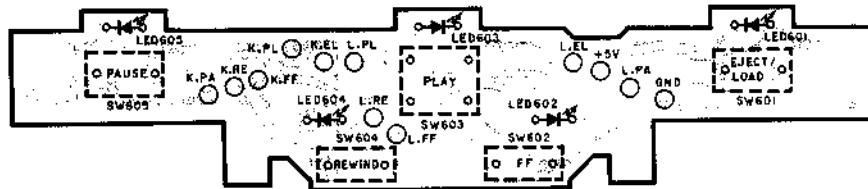


Fig. 8.7

8.8. Volume P.C.B. Ass'y

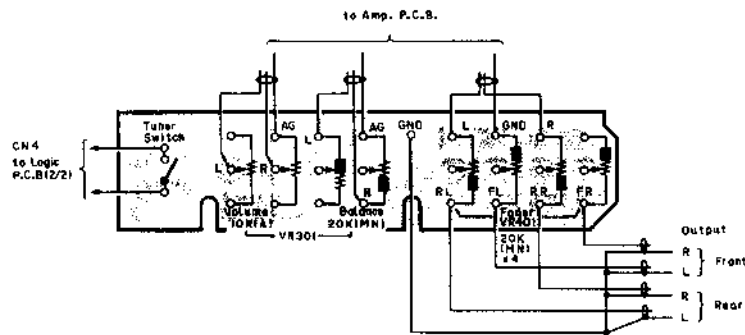


Fig. 8.8

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
Q301 L301 R301 R302 C301 C302	BA05516A	Buffer Amp. P.C.B. Ass'y (except for Japan)	CN4	BA05422A	Volume P.C.B. Ass'y TD-500 & TD-500E
	OB60132A	Buffer Amp. P.C.B. FET 2SK161		BA05466A	Volume P.C.B. Ass'y TD-500D
	OB06461A	RF Coil		OB60115A	Volume 12mm
	OB51198A	RK 10K 1/6W J		OB30011A	2P-H Connector
	OB09701A	RK 330 1/6W J		OB82305A	Pin Jack Cable BLK TD-500 & TD-500E (1)
	OB09685A	CC 0.01 μ 25V		OB81269B	Pin Jack Cable GRY TD-500 & TD-500E (1)
	OB41019A	CC 1000P 25V		OB81280A	Socket 7P TD-500D (1)
	OB41007A	Control P.C.B. Ass'y		OB81275B	Socket 7P TD-500D (1)
LED601-605 SW601,602 604,605 SW603	BA05416A	Control P.C.B. Ass'y	OE03123A	Earth Lug M2.6 (1)	
	OB60111B	Control P.C.B. LED SLP202C Green	OB80078B	Shield Wire A (Yellow) (1)	
	OB12216A	Tact Switch	OB80079B	Shield Wire B (Red) (1)	
	OB70020A	Tact Switch Reflector A (5)	OB80080B	Shield Wire C (Black) (1)	
	OB70032A				
QJ04845A					

8.9. Tone Volume P.C.B. Ass'y

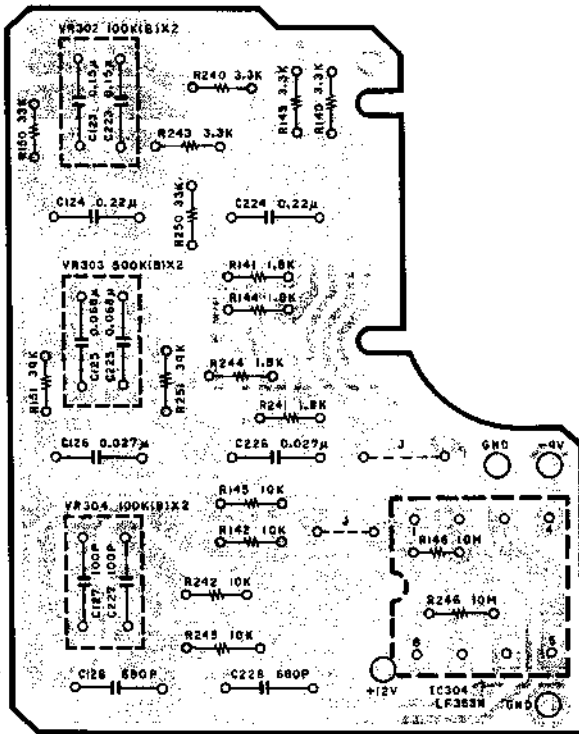


Fig. 8.9.1 C60406001 - (TD-500 & TD-500E)
C60601390 - (TD-500D)

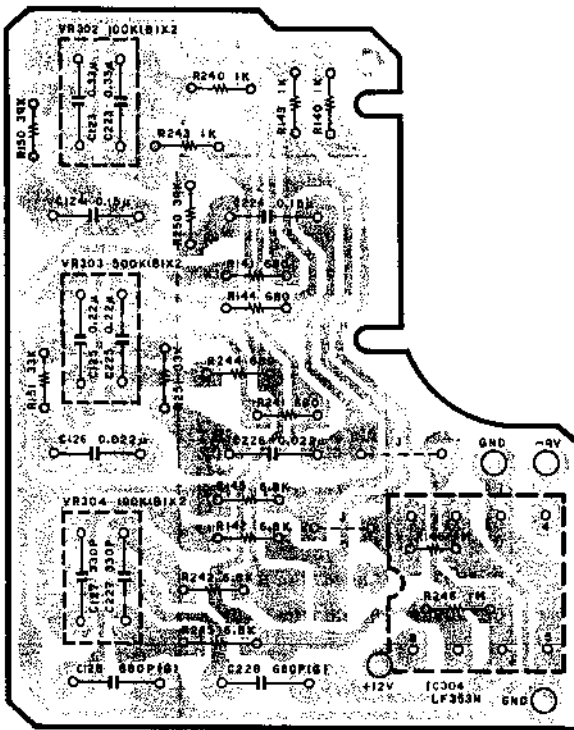


Fig. 8.9.2 C60401001 - 06000 (TD-500 & TD-500E)
C60601001 - 01389 (TD-500D)

Schematic Ref. No.	Part No.	Description
	BA05613A	Tone Volume P.C.B. Ass'y Serial No.: C60406001 - C60601390 -
IC304	0B60114C 0B11155A	Tone Volume P.C.B. IC LF353N (Low Noise)
VR302,304	0B30012A	VR 100K (B)x2
VR303	0B30013A	VR 500K (B)x2
R140,143	0B23085A	RK 3.3K 1/8W J
240,243		
R141,144	0B23079A	RK 1.8K 1/8W J
241,244		
R142,145	0B23097A	RK 10K 1/8W J
242,245		
R146,246	0B25001A	RK 10M 1/8W J
R150,250	0B23109A	RK 33K 1/8W J
R151,251	0B23111A	RK 39K 1/8W J
C123,223	0B41175A	CM 0.15μ 50V J
C124,224	0B41176A	CM 0.22μ 50V J
C125,225	0B41373A	CM 0.068μ 50V J
C126,226	0B09045A	CM 0.027μ 50V J
C127,227	0B41386A	CP 100P 100V J
C128,228	0B09235A	CP 680P 100V J
CP1	0B82383A	6P Coupler
CP2	0B82381A	2P Coupler
	0J04854A	Tone Volume Holder (1)
	BA05421A	Tone Volume P.C.B. Ass'y Serial Nos.: C60401001 - 06000 C60601001 - 01389
IC304	0B60114C 0B11032A	Tone Volume P.C.B. IC LF353N
VR302,304	0B30012A	VR 100K (B)x2
VR303	0B30013A	VR 500K (B)x2
R140,143	0B23073A	RK 1K 1/8W J
240,243		
R141,144	0B23069A	RK 680 1/8W J
241,244		
R142,145	0B23093A	RK 6.8K 1/8W J
242,245		
R146,246	0B23145A	RK 1M 1/8W J
R150,250	0B23111A	RK 39K 1/8W J
R151,251	0B23109A	RK 33K 1/8W J
C123,223	0B41177A	CM 0.33μ 50V J
C124,224	0B41175A	CM 0.15μ 50V J
C125,225	0B41176A	CM 0.22μ 50V J
C126,226	0B05582A	CM 0.022μ 50V J
C127,227	0B41213A	CP 330P 100V J
C128,228	0B41121A	CP 880P 100V G
CP1	0B82292A	6P Coupler
CP2	0B82294B	2P Coupler
	0B90021A	Band EG-9 (1)
	0J04854A	Tone Volume Holder (1)

8.10. Motor P.C.B. Ass'y

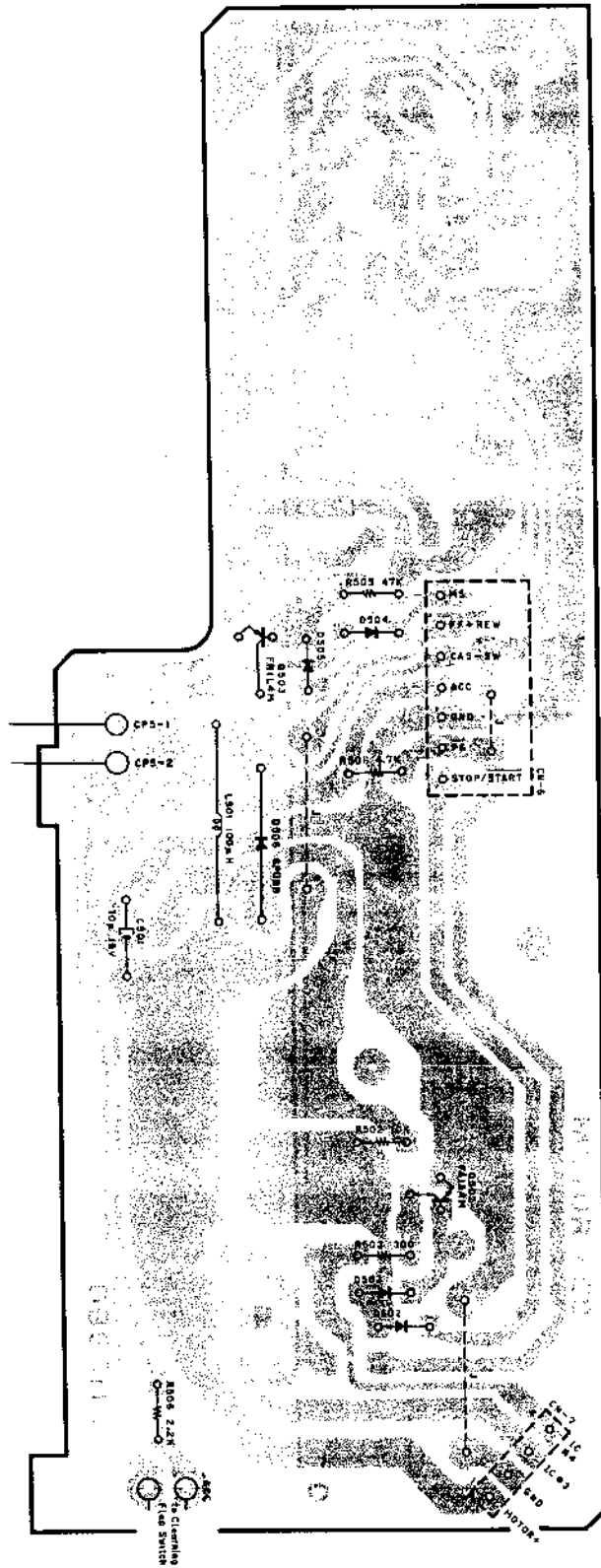


Fig. 8.10

Schematic Ref. No.	Part No.	Description
	BA05413B	Motor P.C.B. Ass'y
Q502	0B60110D	Motor P.C.B.
Q503	0B14144A	TR FA1A4M
D502,503	0B14151A	TR FN1L4M
504,505	0B13064A	SiD MA221
D506	0B06109A	SiD GP08B
L501	0B51183A	Micro Coil 100µH
R307	0B23121A	RK 100K 1/8W J
R501	0B23089A	RK 4.7K 1/8W J
R502	0B23097A	RK 10K 1/8W J
R503	0B23060A	RK 300 1/8W J
R505	0B23113A	RK 47K 1/8W J
R506	0B23081A	RK 2.2K 1/8W J
C501	0B40162A	CE 10µ 16V
CN6	0B81041A	7P-S Post
CN7	0B81027A	4P-T Post
CP5	0B82300A	2P Coupler

8.11. Tuner P.C.B. Ass'y
 (1) For TD-500
 (U.S.A. & Canada)

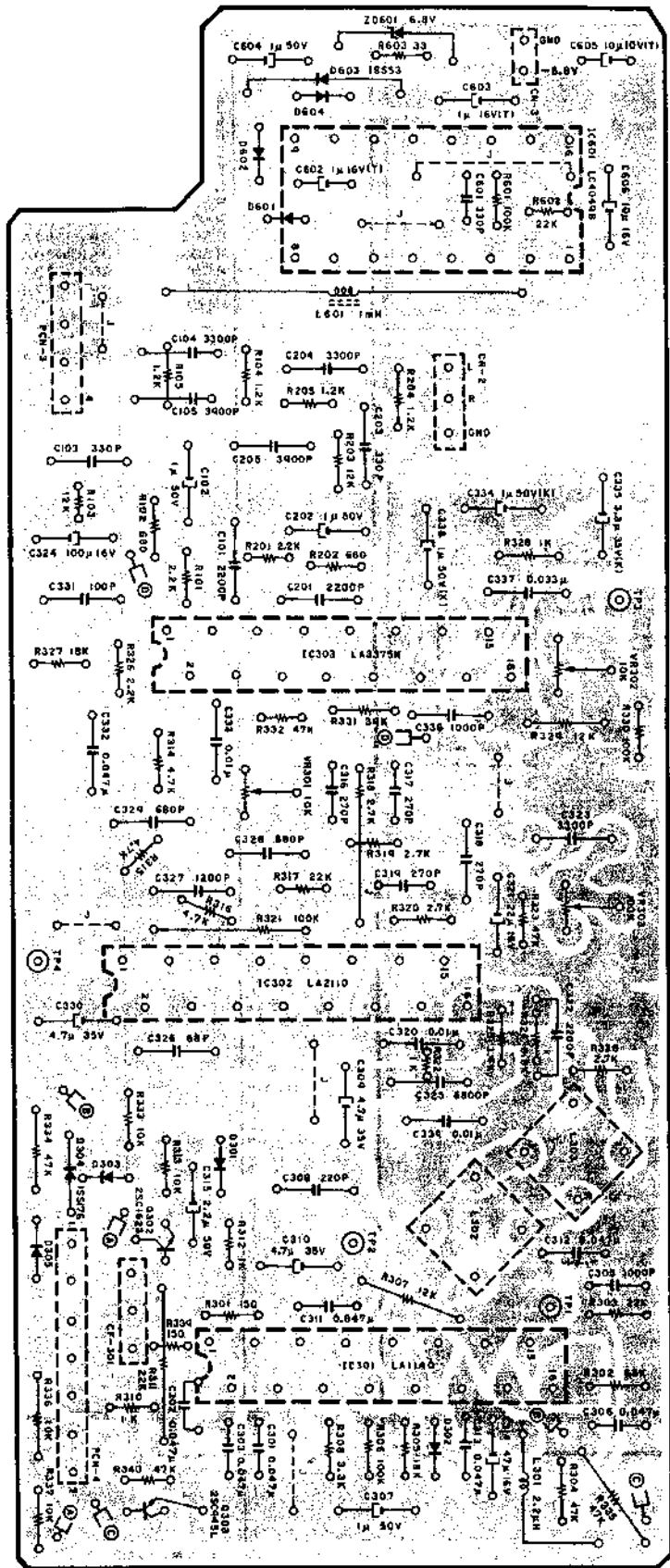


FIG. 8.11.1

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05424B	Tuner F.C.B. Ass'y TD-500 (U.S.A. & Canada)	C326	OB41191A	C 68P 100V J
			C327	OB05687A	CM 1200P 50V J
			C328,329	OB05571A	CM 680P 50V J
			C331	OB41386A	CP 100P 50V J
			C332	OB05796A	CM 0.047 μ 50V J
			C334,338	OB40263A	CE 1 μ 50V K
			C335	OB40264A	CE 3.3 μ 35V K
			C336	OB41225A	CP 1000P 100V J
			C337	OB05583A	CM 0.033 μ 50V J
			C601	OB43055A	CC 330P 50V K
			C602	OB43025A	CT 1 μ 16V
			C605	OB43020A	CT 10 μ 10V
			C606	OB40162A	CE 10 μ 16V
			CF301	OB41076A	Ceramic Filter SFE10.7MS3GKY
			CN3	OB81036A	2P-S Post (1)
			PCN2	OB81283A	3P-S Post (1)
			PCN3	OB82288A	4P Connector (1)
			PCN4	OB82289A	7P Connector (1)
				OE00764A	M2.6x6 Φ Pan (2A) (1)
				OJ04869A	F.C.B. Holder Stud (1)
				OB81117A	Contact Pin 1P (4)
				OJ04871B	Shield Case (1)
IC301	OB60116E	Tuner F.C.B.			
IC302	OB06412A	IC LA1140			
IC303	OB06414A	IC LA2110			
IC601	OB06415B	IC LA3375N			
Q302	OB11066A	IC LC4049B			
Q303	OB14022A	TR 2SC1623			
ZD601	OB01872A	TR 2SC945L (P,Q)			
D301,302	OB06241A	ZD 6.8V RD6.8EB2			
303,601	OB13064A	SID MA221			
602					
D304	OB06398A	SID 15S176			
D305,604	OB13003A	SID RLS-73			
D603	OB06181A	SID 15S53			
L301	OB51106A	Micro Coil 2.2 μ H			
L302	OB51142A	Det. Coil 57-1291-01			
L303	OB06712A	Det Coil 57-1057-01			
L601	OB51049A	Micro Coil 1mH			
VR301,302	OB32035A	Potentiometer 10K			
VR303	OB32038A	Potentiometer 100K			
R101,201	OB23081A	RK 2.2K 1/8W J			
326					
R102,202	OB23069A	RK 680 1/8W J			
R103,203	OB23099A	RK 12K 1/8W J			
R104,105	OB23075A	RK 1.2K 1/8W J			
204,205					
R301,339	OB23053A	RK 150 1/8W J			
R302	OB23117A	RK 68K 1/8W J			
R303,317	OB23105A	RK 22K 1/8W J			
602					
R304,323	OB23118A	RK 47K 1/8W J			
332,334					
340					
R305,327	OB23103A	RK 18K 1/8W J			
R306,330	OB23121A	RK 100K 1/8W J			
601					
R307	OB05650A	RK 12K 1/4W VJ			
R308	OB23085A	RK 3.3K 1/8W J			
R309	OB23101A	RK 15K 1/8W J			
R310,312	OB23073A	RK 1K 1/8W J			
322,328					
R311	OB05615A	RK 22K 1/4W J			
R313,333	OB23097A	RK 10K 1/8W J			
336,337					
R314,315	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,320	OB23083A	RK 2.7K 1/8W J			
338					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23087A	RK 3.9K 1/8W J			
R329	OB09703A	RK 12K 1/6W J			
R331	OB23111A	RK 39K 1/8W J			
R335	OB09717A	RK 47K 1/8W J			
R603	OB23037A	RK 33 1/8W J			
C101,201	OB41233A	CP 2200P 100V J			
C102,202	OB40255A	CE 1 μ 50V			
C103,203	OB41213A	CP 330P 100V J			
C104,204	OB41237A	CP 3300P 100V J			
C105,205	OB41239A	CP 3900P 100V J			
C301,302	OB43053A	CC 0.047 μ 50V K			
303,306					
311,312					
313					
C306	OB43050A	CC 1000P 50V K			
C307,603	OB40173A	CE 1 μ 50V			
604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7 μ 35V			
C310	OB40019A	CE 4.7 μ 35V			
C314	OB40165A	CE 47 μ 16V			
C315	OB40174A	CE 2.2 μ 50V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41084A	CM 0.01 μ 50V			
339					
C321	OB40163A	CE 22 μ 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100 μ 16V			
C325	OB05530A	CM 6800P 50V J			

(2) For TD-500 (Australia & Others), TD-500E and TD-500D

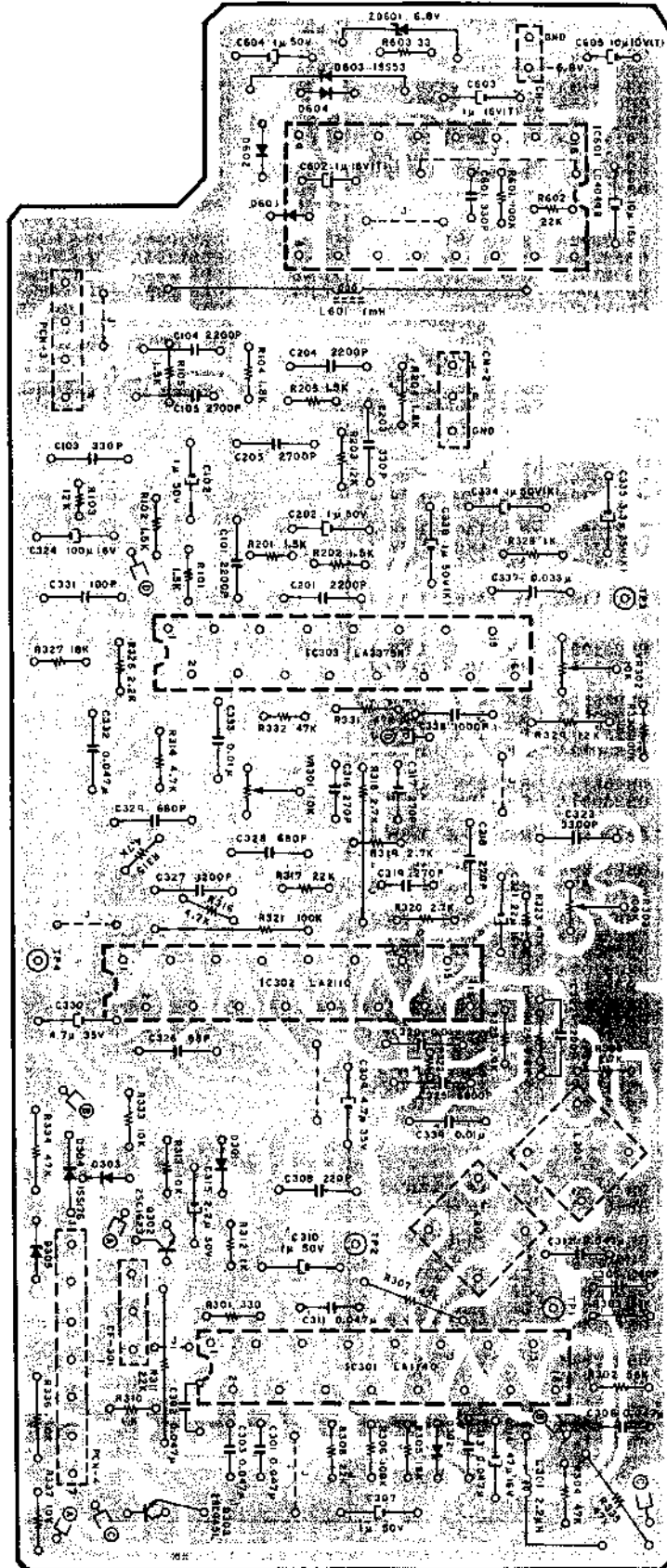


Fig. 8.11.2

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05458A	Tuner P.C.B. Ass'y TD-500 (Australia & Others), TD-500E & TD-500D	C328,329	OB05571A	CM 680P 50V J
			C331	OB41386A	CP 100P 50V J
			C332	OB05796A	CM 0.047 μ 50V J
			C334,338	OB40263A	CE 1 μ 50V K
			C335	OB40264A	CE 3.3 μ 35V K
			C336	OB41225A	CP 1000P 100V J
			C337	OB05583A	CM 0.033 μ 50V J
			C601	OB43055A	CC 330P 50V K
			C602	OB43025A	CT 1 μ 16V
			C605	OB43020A	CT 10 μ 10V
			C606	OB40162A	CE 10 μ 16V
			CF301	OB41076A	Ceramic Filter
				SFE10.7MS3GKY-A	
			CN3	OB81036A	2P-S Post (1)
			PCN2	OB81283A	3P-S Post (1)
			PCN3	OB82288A	4P Connector (1)
			PCN4	OB82289A	7P Connector (1)
				OE00764A	M2.5x6 \emptyset Pan (2A) (1)
				OJ04869A	P.C.B. Holder Stud (1)
				OB81117A	Contact Pin 1P (4)
				OJ04871B	Shield Case (1)
IC301	OB60116E	Tuner P.C.B.			
IC302	OB06412A	IC LA1140			
IC303	OB06414A	IC LA2110			
IC601	OB06415B	IC LA3375N			
Q802	OB11066A	IC LC4049B			
Q803	OB14022A	TR 2SC1623			
ZD601	OB01872A	TR 2SC945L (P,Q)			
D301,302	OB06241A	ZD 6.8V RD6.8EB2			
303,601	OB13064A	SID MA221			
602					
D304	OB06398A	SID 1SS176			
D305,604	OB13003A	SID RLS-73			
D603	OB06181A	SID 1SS53			
L301	OB51106A	Micro Coil 2.2 μ H			
L302	OB51142A	Det. Coil			
		57-1291-01			
L303	OB06712A	Det. Coil			
		57-1057-01			
L601	OB51040A	Micro Coil 1mH			
VR301,302	OB32035A	Potentiometer 10K			
VR303	OB32038A	Potentiometer 100K			
R101,102	OB23077A	RK 1.5K 1/8W J			
105,201					
202,205					
R103,203	OB23099A	RK 12K 1/8W J			
R104,204	OB23079A	RK 1.8K 1/8W J			
R301	OB23061A	RK 330 1/8W J			
R302	OB23115A	RK 56K 1/8W J			
R303,308	OB23105A	RK 22K 1/8W J			
317,602					
R304,323	OB23113A	RK 47K 1/8W J			
331,332					
334					
R305,327	OB23103A	RK 18K 1/8W J			
R306,330	OB23121A	RK 100K 1/8W J			
601					
R307	OB05562A	RK 47K 1/4W VJ			
R310,312	OB23073A	RK 1K 1/8W J			
322,328					
R311	OB05615A	RK 22K 1/4W J			
R313,333	OB23097A	RK 10K 1/8W J			
336,337					
R314,315	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,320	OB23083A	RK 2.7K 1/8W J			
338					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23087A	RK 3.9K 1/8W J			
R326	OB23081A	RK 2.2K 1/8W J			
R329	OB09703A	RK 12K 1/6W J			
R335	OB09717A	RK 47K 1/6W J			
R603	OB23037A	RK 33 1/8W J			
C101,104	OB41233A	CP 2200P 100V J			
201,204					
C102,202	OB40255A	CE 1 μ 50V			
C103,203	OB41213A	CP 330P 100V J			
C105,205	OB41235A	CP 2700P 100V J			
C301,302	OB43053A	CC 0.047 μ 50V K			
303,306					
311,312					
313					
C305	OB43050A	CC 1000P 50V K			
C307,310	OB40173A	CE 1 μ 50V			
603,604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7 μ 35V			
C314	OB40165A	CE 47 μ 16V			
C315	OB40174A	CE 2.2 μ 50V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41094A	CM 0.01 μ 50V			
339					
C321	OB40163A	CE 22 μ 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100 μ 16V			
C325	OB05530A	CM 6800P 50V J			
C326	OB41191A	C 68P 100V J			
C327	OB05687A	CM 1200P 50V J			

(3) For TD-500 (Japan)

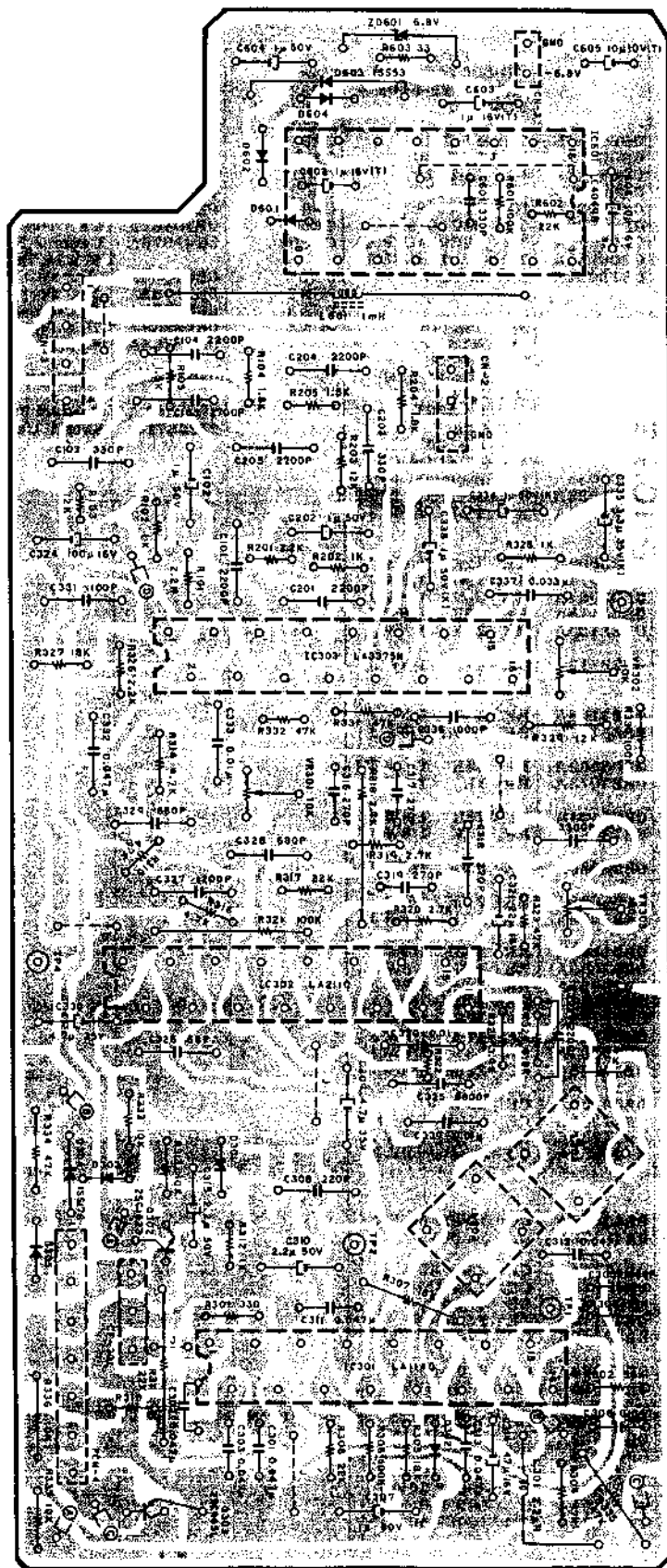


Fig. 8.11.3

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05423A	Tuner P.C.B. Ass'y TD-500 (Japan)	C332	OB05796A	CM 0.047 μ 50V J
			C334,338	OB40263A	CE 1 μ 50V K
			C335	OB40264A	CE 3.3 μ 35V K
			C336	OB41225A	CP 1000P 100V J
			C337	OB05583A	CM 0.033 μ 50V J
IC301	OB60116E	Tuner P.C.B.	C601	OB43055A	CC 330P 50V K
IC302	OB06412A	IC LA1140	C602	OB43025A	CT 1 μ 16V
IC303	OB06414A	IC LA2110	C605	OB43020A	CT 10 μ 10V
IC308	OB06415B	IC LA3375N	C606	OB40162A	CE 10 μ 16V
IC601	OB11066A	IC LC4049B	CF301	OB41075A	Ceramic Filter
Q302	OB14022A	TR 2SC1623			SFE10.7MLK-A
Q303	OB01872A	TR 2SC945L (P,Q)			
ZD601	OB06241A	ZD 6.8V RD6.8EB2	CN3	OB81036A	2P-S Post (1)
D301,302	OB13064A	SID MA221	PCN2	OB81283A	3P-S Post (1)
303,601			PCN3	OB82288A	4P Connector (1)
602			PCN4	OB82289A	7P Connector (1)
D304	OB06398A	SID 18S176		OE00764A	M2.6x6 ϕ Pan (2A)
D305,604	OB13003A	SID RLS-73			(1)
D603	OB06181A	SID 1SS53			
L301	OB51106A	Micro Coil 2.2 μ H		OJ04869A	P.C.B. Holder Stud
L302	OB51142A	Det. Coil			(1)
		57-1291-01			
L303	OB06712A	Det. Coil		OB81117A	Contact Pin 1P (4)
		57-1057-01		OJ04871B	Shield Case (1)
L601	OB51040A	Micro Coil 1mH			
VR301,302	OB32035A	Potentiometer 10K			
VR303	OB32038A	Potentiometer 100K			
R101,201	OB23081A	RK 2.2K 1/8W J			
326					
R102,202	OB23073A	RK 1K 1/8W J			
310,312					
322,328					
R103,203	OB23099A	RK 12K 1/8W J			
R104,204	OB23079A	RK 1.8K 1/8W J			
R105,205	OB23077A	RK 1.5K 1/8W J			
R301	OB23061A	RK 330 1/8W J			
R302	OB23115A	RK 56K 1/8W J			
R303,308	OB23105A	RK 22K 1/8W J			
317,602					
R304,323	OB23113A	RK 47K 1/8W J			
331,332					
334					
R305,327	OB23103A	RK 18K 1/8W J			
R306,330	OB23121A	RK 100K 1/8W J			
601					
R307	OB05561A	RK 18K 1/4W VJ			
R311	OB05615A	RK 22K 1/4W J			
R313,333	OB23097A	RK 10K 1/8W J			
336,337					
R314,315	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,320	OB23083A	RK 2.7K 1/8W J			
338					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23087A	RK 3.9K 1/8W J			
R329	OB09703A	RK 12K 1/6W J			
R335	OB09717A	RK 47K 1/6W J			
R603	OB23037A	RK 33 1/8W J			
C101,104	OB41233A	CP 2200P 100V J			
201,204					
C102,202	OB40255A	CE 1 μ 50V			
C103,203	OB41213A	CP 330P 100V J			
C105,205	OB41235A	CP 2700P 100V J			
C301,302	OB43053A	CC 0.047 μ 50V K			
303,306					
311,312					
313					
C305	OB43050A	CC 1000P 50V K			
C307,603	OB40173A	CE 1 μ 50V			
604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7 μ 35V			
C310,315	OB40174A	CE 2.2 μ 50V			
C314	OB40165A	CE 47 μ 16V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41094A	CM 0.01 μ 50V			
339					
C321	OB40163A	CE 22 μ 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100 μ 16V			
C325	OB05530A	CM 6800P 50V J			
C326	OB41191A	C 68P 100V J			
C327	OB05687A	CM 1200P 50V J			
C328,329	OB05571A	CM 680P 50V J			
C331	OB41386A	CP 100P 50V J			

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05610A	Amp. P.C.B. Ass'y Serial No.: C60406001 - C60601390 -	R301 R308 C105,106 205,206 C107,207 C108,208	OB23091A OB23069A OB41369A OB41373A OB40256A	RK 5.6K 1/8W J RK 680 1/8W J CM 0.033μ 50V J CM 0.068μ 50V J CE 2.2μ 50V
	-- Dolby NR --			-- Line Amp. --	
IC101,201 ZD302	OB14119A OB13011A	IC TEA0665 ZD 5.6V RLZ5.6BTE-11	IC303 Q103,203 Q301	OB11001A OB06299A OB14027A OB26009A	IC NJM4558M TR 2SC2878 TR 2SA812 RM 100K 1/8W F
D201 L101,201 L102,202 R123,223 R124,224 R125,225 R126,226 R127,227 R128,228 R129,229 R130,230 R131,231 302 R132,232 R303 R309 C109,209 C110,116 210,216 C111,117 211,217 302 C112,118 212,218 C113,119 213,219 C114,120 214,220 C115,215 C129,229 C130,230	OB13003A OB51149A OB51146A OB23057A OB23089A OB23071A OB23059A OB26007A OB26006A OB23090A OB23117A OB23081A OB22447A OB23097A OB09669A OB05659A OB41141A OB40009A OB41371A OB41176A OB40282A OB05681A OB40206A OB40207A OB81117A	SID RLS-73 Inductor 8.2mH L-C Block RK 220 1/8W J RK 4.7K 1/8W J RK 820 1/8W J RK 270 1/8W J RM 33K 1/8W F RM 82K 1/8W F RK 5.1K 1/8W J RK 68K 1/8W J RK 2.2K 1/8W J RM 82K 1/6W F RK 10K 1/8W J RK 470 1/6W J CM 5600P 50V J CP 4700P 100V G CE 10μ 16V CM 0.047μ 50V J CM 0.22μ 50V J CT 0.68μ 35V K CM 0.01μ 50V J CE 100μ 16V CE 470μ 6.3V Contact Pin 1P (2)	R133,134 135,136 233,234 235,236 R137,237 R138,139 238,239 R147,247 R148,248 R304 R305 C121,122 221,222 SW301	OB26010A OB26008A OB23073A OB23089A OB23097A OB23121A OB41476A OB70022A	RM 8.25K 1/8W F RM 10K 1/8W F RK 1K 1/8W J RK 4.7K 1/8W J RK 10K 1/8W J RK 100K 1/8W J CM 0.1μ 50V J Slide Switch
	-- Head Amp. --			-- Miscellaneous --	
IC301 Q101,201 Q102,202 ZD301	OB11017A OB06376A OB14022A OB12162A	IC NJM072S-E FET 2SK170 (GR) TR 2SC1623 ZD 8.2V RD8.2JS-T1B2	CN1 CN2 CN3 CP1 CP2 PCN1 PCN2	OB60113E OB81187A OB82303A OB82304A OB82382A OB82380A OB82335A OB82337A OB90021A OE00174A	Amp. P.C.B. 4P-S Post 3P-H Connector 1P Connector 6P Coupler EMC-G06 2P Coupler EMC-G02 3P Connector 6P Connector Band EG-9 (2) Earth Lug B-4 (1)
VR101,201 R101,106 201,206 R102,202 R103,203 R105,205 R107,207 R108,208 R109,209 R110,210 R111,211 R112,212 R113,213 R306 R307 C101,201 C102,202 C103,203 C104,204 C301 C302	OB32039A OB23121A OB22601A OB22644A OB26010A OB22648A OB22491A OB26002A OB26003A OB23093A OB23097A OB23145A OB23081A OB23069A OB41177A OB40259A OB09858A OB09861A OB40357A OB40356A OB81117A OB90044A	Potentiometer 10K RK 100K 1/8W J RM 80.6 1/4W F RM 1.54K 1/4W F RM 8.25K 1/8W F RM 4.7M 1/4W J RM 210K 1/6W F RM 2.15K 1/8W F RM 2.67K 1/8W F RK 6.8K 1/8W J RK 10K 1/8W J RK 1M 1/8W J RK 2.2K 1/8W J RK 680 1/8W J CM 0.33μ 50V J CE 10μ 16V CM 0.015μ 50V J CF 0.027μ 50V J CE 330μ 10V CE 220μ 10V Contact Pin 1P (1) Shield Belt (1)	CP1 CP2	OB82293A OB82295B	6P Coupler TVQ (1) 2P Coupler TVQ (1)
	-- Subsonic Filter --				
IC302 IC305 D301 R115,215 R116,118 216,218 R117,217 R119,219 R120,220 R121,221 R122,222 R149,249	OB11032A OB11027A OB13063A OB23115A OB23137A OB23129A OB23139A OB26004A OB23145A OB26005A OB23141A	IC LF353N IC TC9145P SID DAP202K RK 56K 1/8W J RK 470K 1/8W J RK 220K 1/8W J RK 560K 1/8W J RM 8.66K 1/8W F RK 1M 1/8W J RM 1K 1/8W F RK 680K 1/8W J			

8.12. Amp. P.C.B. Ass'y

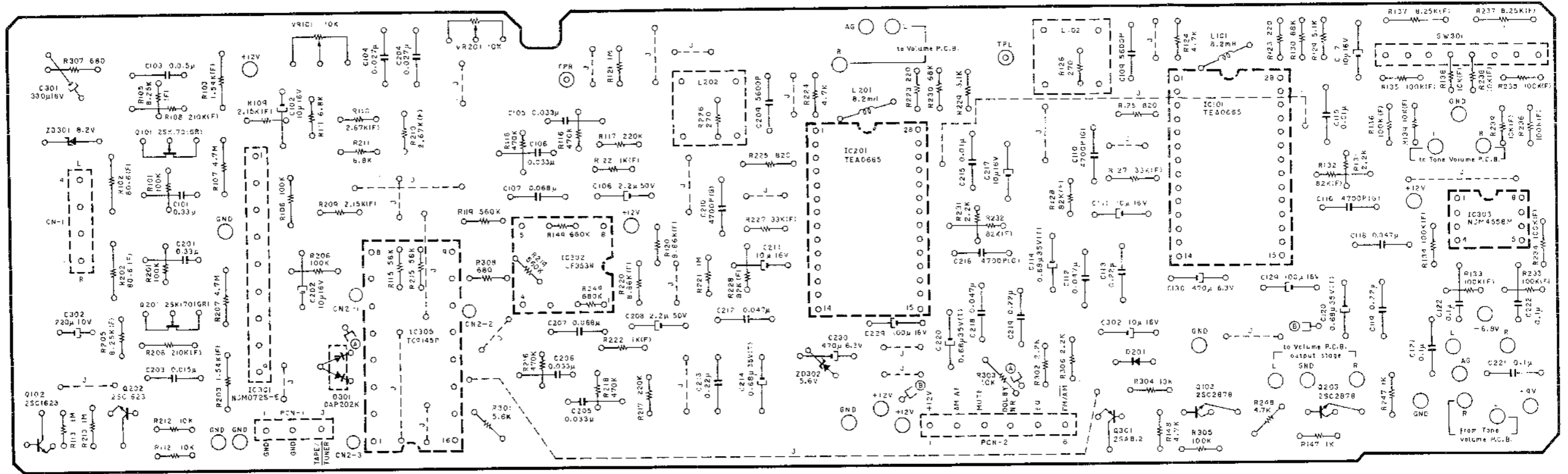


Fig. 8.12

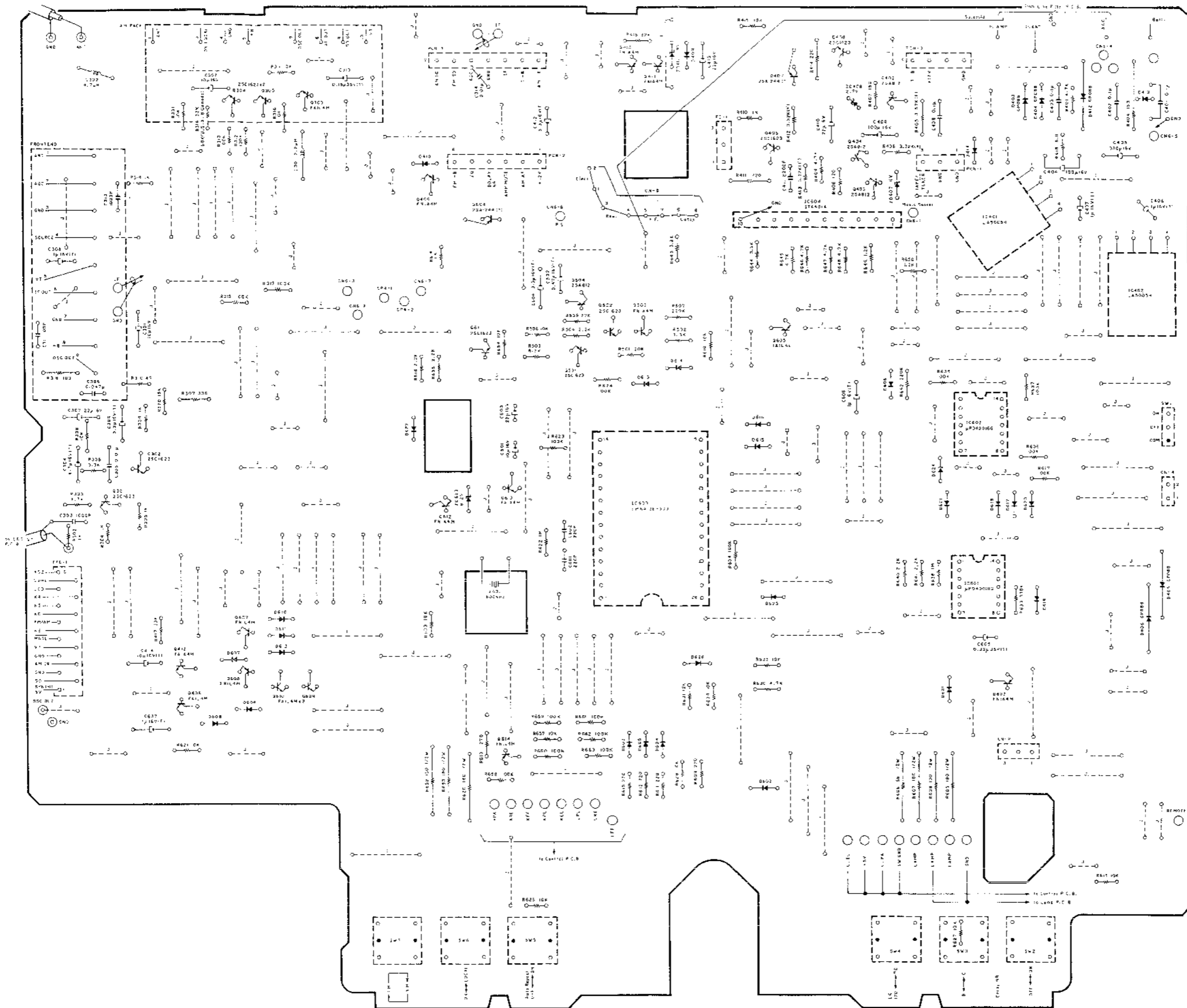


Fig. 8.13.1 C60406401 - (TD-500 & TD-500E)

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05615A	Logic P.C.B. Ass'y TD-500 (Japan)	ZD411	OB13026A	ZD 9V		OB91004A	Front-end TD-500 (U.S.A. & Canada)
	BA05616A	Logic P.C.B. Ass'y TD-500 (U.S.A. & Canada)	D403,404 405,406 412	OB06109A	SID RLZ9,1BTE-11 SID GP08B		OB91003A	Front-end TD-500 (Japan)
	BA05617A	Logic P.C.B. Ass'y TD-500 (Australia & Others) & TD-500E	D409,410 D413,414 R401,409 R404	OB13003A OB13064A OB23089A OB05795A OB26012A OB26013A	SID RLS-73 SID MA221 RK 4.7K 1/8W J RK 150 1/4W J RM 3.57K 1/8W F RM 3.32K 1/8W F	CN9	- Miscellaneous -	
	BA05621A	Logic P.C.B. Ass'y TD-500D Serial No.: C60406401 -	R405 R406,412 413 R407 R408 R410 R411,414 R415 R416 R417 R418 C401,402 408 C403 C404,409 C405 C406,407 C410,415 C411 C412 C414	OB23053A OB23051A OB23073A OB23150A OB23097A OB23119A OB23109A OB23021A OB09292A OB43054A OB40206A OB40080A OB43025A OB40163A OB43051A OB43028A OB43020A	RK 150 1/8W J RK 120 1/8W J RK 1K 1/8W J RK 220 1/4W J RK 10K 1/8W J RK 82K 1/8W J RK 33K 1/8W J RK 6.8 1/8W J CC 0.1μ 50V Z CC 0.1μ 50V Z CE 100μ 16V CE 330μ 16V CT 1μ 16V CE 22μ 16V CC 2200P 50V K CT 3.3μ 16V CT 10μ 10V			
	- CPU -			- Reset -				
IC601,602	OB11063A	IC μFD4001BG						
IC603	OB11061A	IC LM6413E-503						
IC604	OB10048A	IC STA401A						
Q603,612	OB14153A	TR FN1A4M	Q501,502	OB14022A	TR 2SC1623			
Q604	OB10017A	TR 2SA1244 (Y)	Q503	OB14153A	TR FN1A4M			
Q605	OB14149A	TR FA1L4L	Q504	OB14027A	TR 2SA812			
Q606,609	OB14146A	TR FA1L4M	R501	OB23104A	RK 20K 1/8W J			
610			R502	OB23085A	RK 3.3K 1/8W J			
Q607,608	OB14151A	TR FN1L4M	R503	OB23095A	RK 8.2K 1/8W J			
614			R504	OB23081A	RK 2.2K 1/8W J			
Q611	OB14022A	TR 2SC1623	R505	OB23107A	RK 27K 1/8W J			
Q613	OB14144A	TR FA1A4M	R506	OB23097A	RK 10K 1/8W J			
ZD623	OB13024A	ZD 8.2V RLZ8,2CTE-11 SID MA221 (25)	R507	OB23129A	RK 220K 1/8W J			
D601-621	OB13064A		C501	OB40162A	CE 10μ 16V			
624-627			C502	OB43023A	CT 0.47μ 16V			
X601	OB02307A	Crystal 800kHz		- Tuner -				
R605,620	OB24035A	RF 180 1/2W J	Q301,302	OB14022A	TR 2SC1623			
653			304,305					
R606	OB24041A	RF 56 1/2W J	Q303	OB14146A	TR FA1L4M			
R607,608	OB09907A	RF 100 1/2W J	L301	OB51106A	Micro Coil 2.2μH			
R609,610	OB23057A	RK 220 1/8W J	L302	OB51011A	Micro Coil 4.7μH			
611,612			R301,308	OB23097A	RK 10K 1/8W J			
R613	OB23059A	RK 270 1/8W J	311,316					
R614	OB23073A	RK 1K 1/8W J	R302,304	OB23073A	RK 1K 1/8W J			
R615,619	OB23097A	RK 10K 1/8W J	305,309					
621,626			319					
627,628			R303	OB23089A	RK 4.7K 1/8W J			
629,632			R306	OB23085A	RK 3.3K 1/8W J			
633,654			R307	OB23061A	RK 330 1/8W J			
657			R310	OB23041A	RK 47 1/8W J			
R616,640	OB23081A	RK 2.2K 1/8W J	R312,313	OB23121A	RK 100K 1/8W J			
641,655			315,317					
R617,623	OB23121A	RK 100K 1/8W J (13)	R314	OB23109A	RK 33K 1/8W J (except for U.S.A. & Canada)			
624,634				OB23117A	RK 68K 1/8W J (U.S.A. & Canada)			
635,636								
637								
658-663								
R622,638	OB23145A	RK 1M 1/8W J	R318	OB09653A	RK 100 1/8W J			
R630	OB23089A	RK 4.7K 1/8W J (5)	R320	OB23101A	RK 15K 1/8W J			
645-648			C301,302	OB40162A	CE 10μ 16V			
R631	OB23099A	RK 12K 1/8W J	C303	OB43050A	CC 1000P 50V K			
R639	OB23133A	RK 330K 1/8W J	C304	OB40280A	CT 4.7μ 18V			
R642	OB23129A	RK 220K 1/8W J	C305	OB41094A	CM 0.01μ 50V J			
R643,644	OB23085A	RK 3.3K 1/8W J	C306	OB43053A	CC 0.047μ 50V K			
R649,650	OB23075A	RK 1.2K 1/8W J	C307	OB40163A	CE 22μ 16V			
R652	OB24040A	RF 150 1/2W J	C308	OB43025A	CT 1μ 16V			
C601,602	OB43048A	CC 220P 50V K	C309	OB40279A	CT 3.3μ 16V			
C603	OB40163A	CE 22μ 16V	C310	OB43035A	CT 0.15μ 35V			
C604	OB43028A	CT 3.3μ 16V	C311	OB43047A	CC 100P 50V K			
C605	OB43037A	CT 0.33μ 35V	C313	OB41082A	CM 1000P 50V J			
C606,607	OB43025A	CT 1μ 16V	C314	OB43052A	CC 0.01μ 50V K			
SW1-5	OB70018A	Push Switch		OB91005A	AM Pack (1)			
SW6	OB70021A	Slide Switch		OB91006A	Front-end TD-500 (Australia & Others), TD-500E & TD-500D			
SW7	OB70019A	Push Switch						
CN4	OB81025A	2P-T Post						
FFC1	OB81279A	15P FFC Connector						
	- Regulator -							
IC401,402	OB11034A	IC LA5005H						
Q402,403	OB14027A	TR 2SA812						
404								
Q406,408	OB14022A	TR 2SC1623						
Q407	OB10017A	TR 2SA1244 (Y)						
Q409,410	OB14153A	TR FN1A4M						
Q411,412	OB14144A	TR FA1A4M						
ZD407	OB13014A	ZD 6V PLZ6,2BTE-11						
ZD408	OB14121A	ZD 2.7V RD2,7MB-T1A						

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05615A	Logic P.C.B. Ass'y TD-500 (Japan)	D402,404	OB06109A	SID GP08B		OB91004A	Front-end TD-500 (U.S.A. & Canada)
	BA05616A	Logic P.C.B. Ass'y TD-500 (U.S.A. & Canada)	405,406				OB91003A	Front-end TD-500 (Japan)
	BA05617A	Logic P.C.B. Ass'y TD-500 (Australia & Others) & TD-500E	412	OB13003A	SID RLS-73		-- Miscellaneous --	
	BA05621A	Logic P.C.B. Ass'y TD-500D Serial Nos.: C60405146 - 06400 C60601390 -	D409,410 D413,414 R401,409 R404 R405 R406,412 413 R407 R408 R410 R411,414 R415 R416 R417 R418 C401,402 408 C403 C404,409 C405 C406,407 C410,415 C411 C412 C414	OB13064A	SID MA221	CN9	OB60109D	Logic P.C.B.
	-- CPU --			OB23053A	RK 150 1/8W J		OB81037A	3P-S Post
IC601,602	OB11063A	IC μ PD4001BG		OB23051A	RK 120 1/8W J		OB81273B	4P Terminal (1)
IC603	OB11061A	IC LM6413E-503		OB23073A	RK 1K 1/8W J		OB82290A	4P Connector (1)
IC604	OB10048A	IC STA401A		OB23150A	RK 220 1/4W J		OB82291A	7P Connector (1)
Q603,612	OB14153A	TR FN1A4M		OB23097A	RK 10K 1/8W J		OB82298B	2P Coupler (1)
Q604	OB10017A	TR 2SA1244 (Y)		OB23119A	RK 82K 1/8W J		OB82307C	7P-H Connector (1)
Q605	OB14149A	TR FAIL4L		OB23109A	RK 33K 1/8W J		OB82309B	8P-H Connector (1)
Q606,609	OB14146A	TR FAIL4M		OB23021A	RK 6.8 1/8W J		OB82334A	3P Connector (1)
				OB29292A	CC 0.1 μ 50V Z		OB82336A	6P Connector (1)
Q607,608	OB14151A	TR FN1L4M		OB43054A	CC 0.1 μ 50V Z		OB90019A	SK Binder (1)
Q611	OB14022A	TR 2SC1623		OB40206A	CE 100 μ 16V		OB00174A	Earth Lug B-4 (4)
Q613	OB14144A	TR FA1A4M		OB40080A	CE 330 μ 16V		OB81272B	4P Terminal Male TD-500D (1)
ZD623	OB13024A	ZD 8.2V RLZ8.2CTE-11 SID MA221 (25)		OB43025A	CT 1 μ 16V		OB81273B	4P Terminal Female TD-500D (1)
	OB13064A		Q501,502	OB40163A	CE 22 μ 16V		OB81268B	4P Terminal Male TD-500 & TD-500E (1)
D601-621			Q503	OB43051A	CC 2200P 50V K		BA05501A	Line Filter P.C.B. Ass'y (1)
624-627			Q504	OB43028A	CT 3.3 μ 16V		BA05497A	Transistor P.C.B. Ass'y (1)
X601	OB02307A	Crystal 800kHz	Q505	OB43020A	CT 10 μ 10V			
R605,620	OB24035A	RF 180 1/2W J	Q604					
653			R501					
R606	OB24041A	RF 56 1/2W J	R502					
R607,608	OB09907A	RF 100 1/2W J	R503					
R609,610	OB23057A	RK 220 1/8W J	R504					
611,612			R505					
R613	OB23059A	RK 270 1/8W J	R506					
R614	OB23073A	RK 1K 1/8W J	R507					
R615,619	OB23097A	RK 10K 1/8W J	C501					
621,626			C502					
627,628								
629,632								
633,654								
R616,640	OB23081A	RK 2.2K 1/8W J	Q301,302	OB14022A	TR 2SC1623			
641,655			304,305					
R617,623	OB23121A	RK 100K 1/8W J	Q303	OB14146A	TR FAIL4M			
624,634			L301	OB51106A	Micro Coil 2.2 μ H			
635,636			L302	OB51011A	Micro Coil 4.7 μ H			
637			R301,308	OB23097A	RK 10K 1/8W J			
R618	OB21001A	R-Network 100Kx6	311,316					
R622,638	OB23145A	RK 1M 1/8W J	R302,304	OB23073A	RK 1K 1/8W J			
R630	OB23089A	RK 4.7K 1/8W J	305,309					
645-650			319					
R631	OB23099A	RK 12K 1/8W J	R303	OB23089A	RK 4.7K 1/8W J			
R639	OB23133A	RK 330K 1/8W J	R306	OB23085A	RK 3.3K 1/8W J			
R642	OB23129A	RK 220K 1/8W J	R307	OB23061A	RK 330 1/8W J			
R643,644	OB23085A	RK 3.3K 1/8W J	R310	OB23041A	RK 47 1/8W J			
R652	OB24040A	RF 150 1/2W J	R312,313	OB23121A	RK 100K 1/8W J			
C601,602	OB43048A	CC 220P 50V K	315,317					
C603	OB40163A	CE 22 μ 16V	R314	OB23109A	RK 33K 1/8W J (except for U.S.A. & Canada)			
C604	OB43028A	CT 3.3 μ 16V		OB23117A	RK 68K 1/8W J (U.S.A. & Canada)			
C605	OB43037A	CT 0.33 μ 35V						
C606,607	OB43025A	CT 1 μ 16V		OB09653A	RK 100 1/6W J			
SW1-5	OB70018A	Push Switch	R318	OB23101A	RK 15K 1/8W J			
SW6	OB70021A	Slide Switch	R320	OB40162A	CE 10 μ 16V			
SW7	OB70019A	Push Switch	R301,302	OB43050A	CC 1000P 50V K			
CN4	OB81025A	2P-T Post	C303	OB40280A	CT 4.7 μ 16V			
FFC1	OB81279A	15P FFC Connector	C304	OB41094A	CM 0.01 μ 50V J			
	-- Regulator --		C305	OB43053A	CC 0.047 μ 50V K			
IC401,402	OB11034A	IC LA5005H	C306	OB40163A	CE 22 μ 16V			
Q402,403	OB14027A	TR 2SA812	C307	OB43025A	CT 1 μ 16V			
404			C309	OB40279A	CT 3.3 μ 16V			
Q406,408	OB14022A	TR 2SC1623	C310	OB43035A	CT 0.15 μ 35V			
Q407	OB10017A	TR 2SA1244 (Y)	C311	OB43047A	CC 100P 50V K			
Q409,410	OB14153A	TR FN1A4M	C313	OB41082A	CM 1000P 50V J			
Q411,412	OB14144A	TR FA1A4M	C314	OB43052A	CC 0.01 μ 50V K			
ZD407	OB13014A	ZD 6V PLZ6.2BTE-11		OB91005A	AM Pack (1)			
				OB91006A	Front-end TD-500 (Australia & Others), TD-500E & TD-500D			
ZD408	OB14121A	ZD 2.7V RD2.7MB-T1A						
ZD411	OB13026A	ZD 9V RLZ9.1BTE-11						

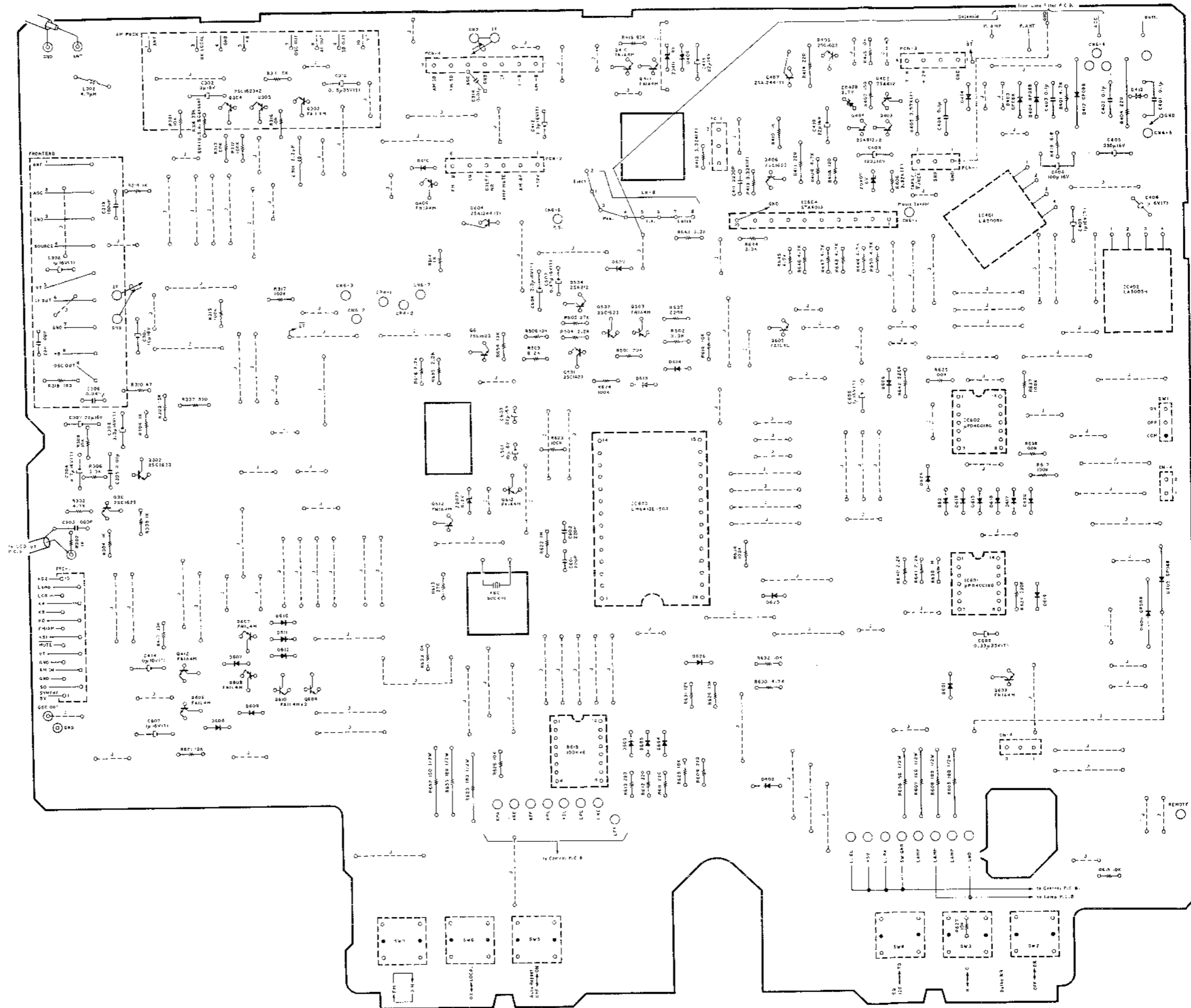


Fig. 8.13.2 C60405146 - 06400 (TD-500 & TD-500E)
C60601390 - (TD-500D)

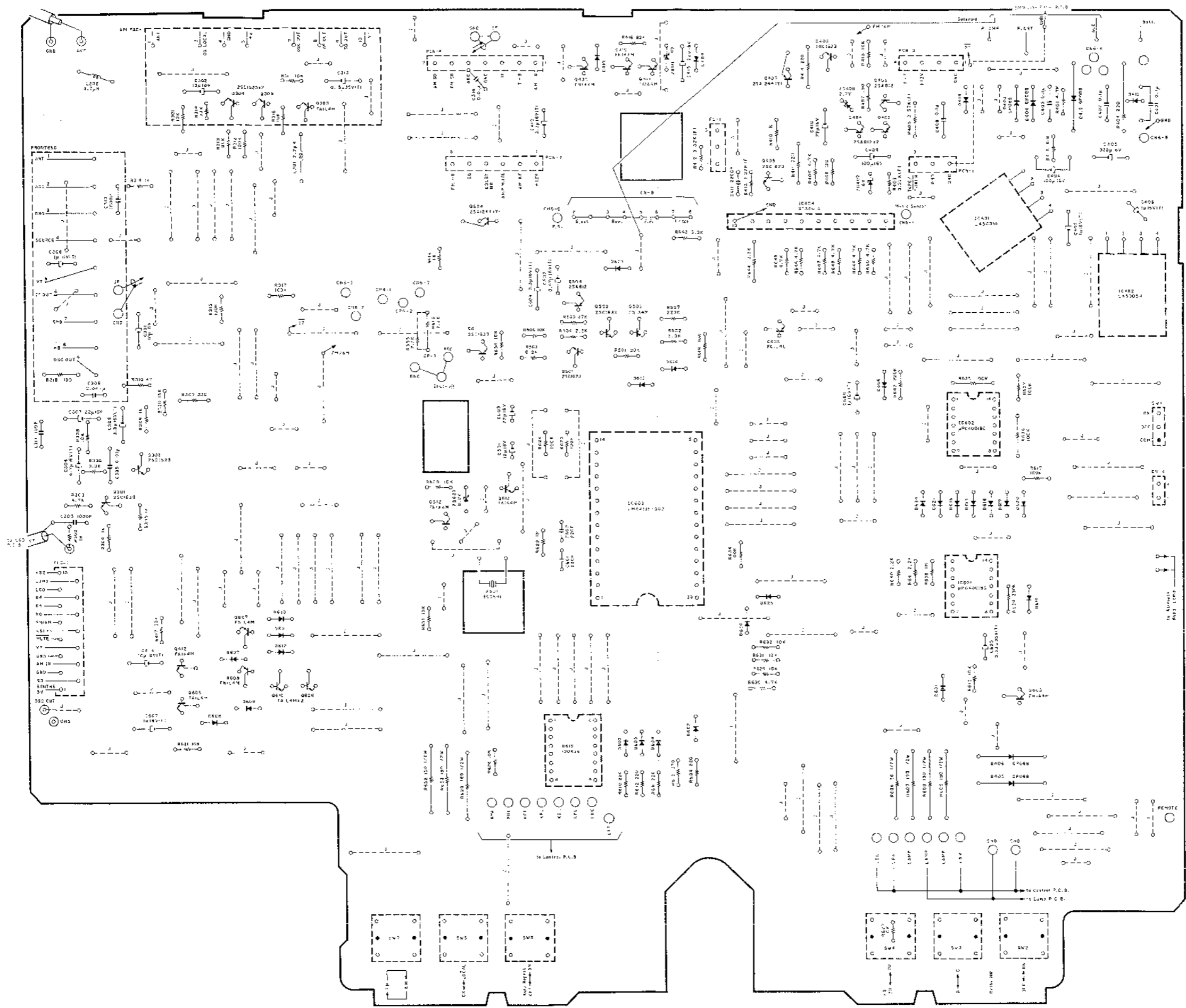


Fig. 8.12.3 C60401001 - 05145 (TD-500 & TD-500E)
C60601001 - 01389 (TD-500D)

9.2. Schematic Diagrams
 (1) Tuner Section

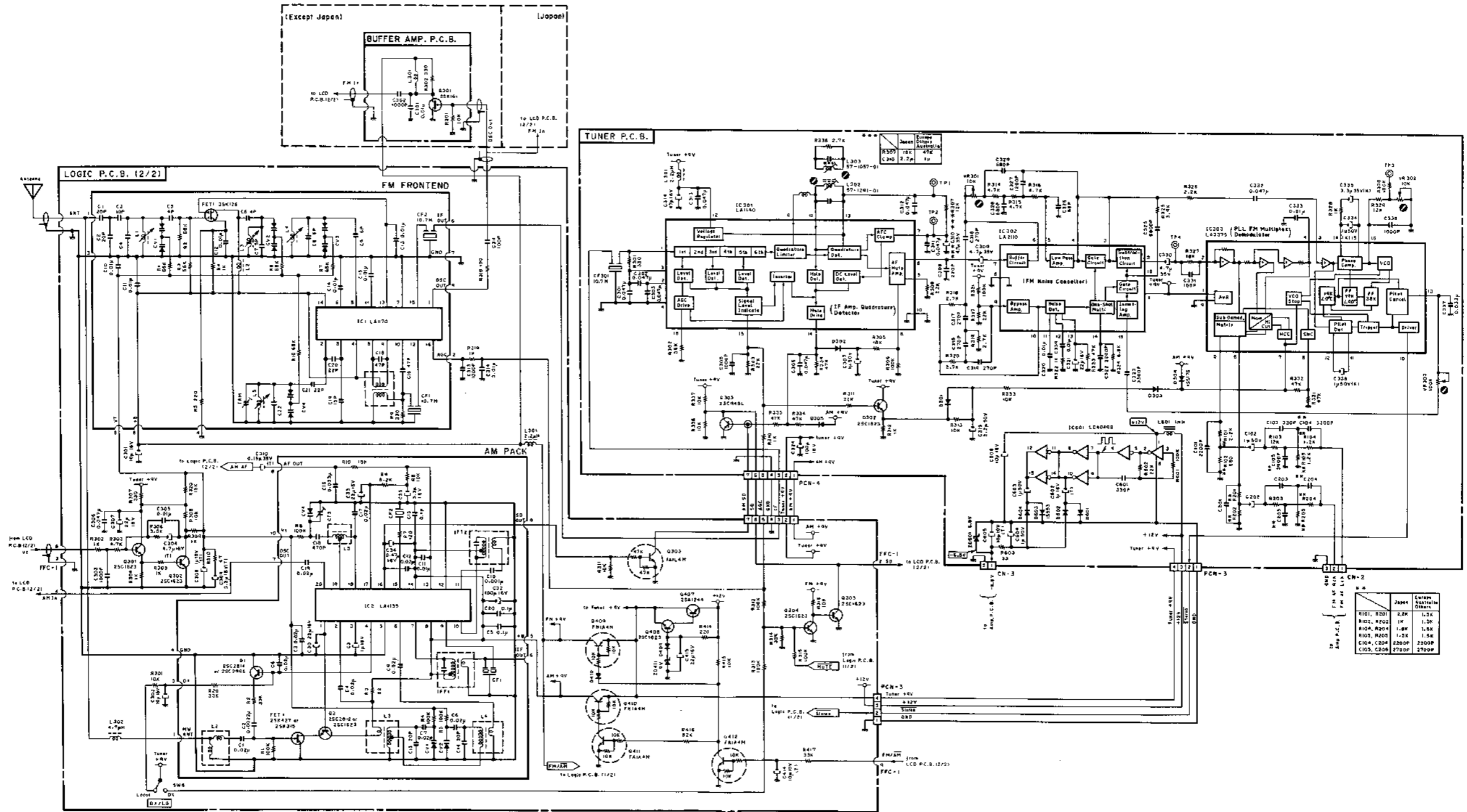


Fig. 9.2.1.1 TD-500E, TD-500D & TD-500 (Australia, Others & Japan)

Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
 2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

(2) Amplifier Section

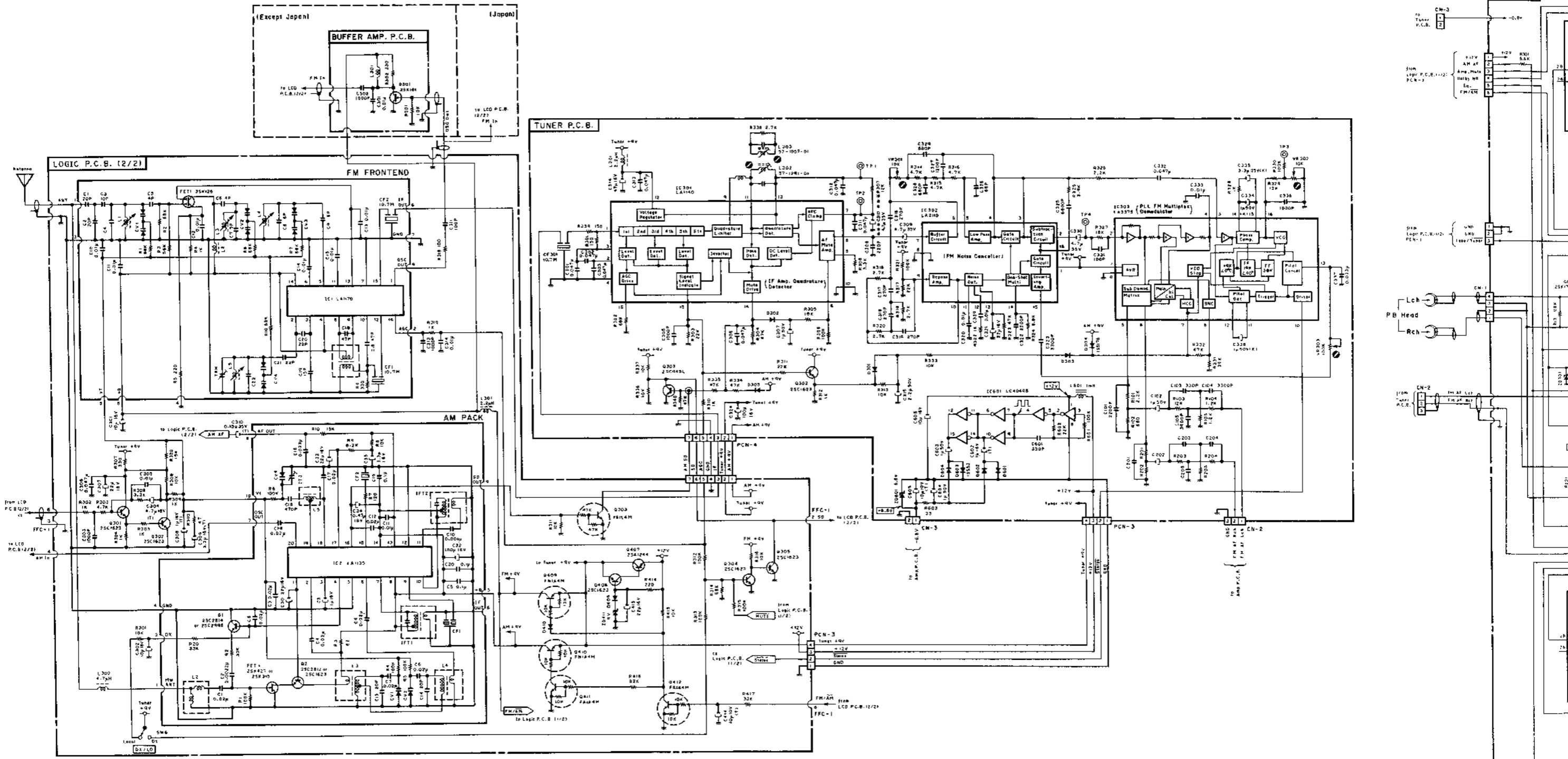


Fig. 9.2.1.2 TD-500 (U.S.A. & Canada)

- Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
 2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

(2) Amplifier Section

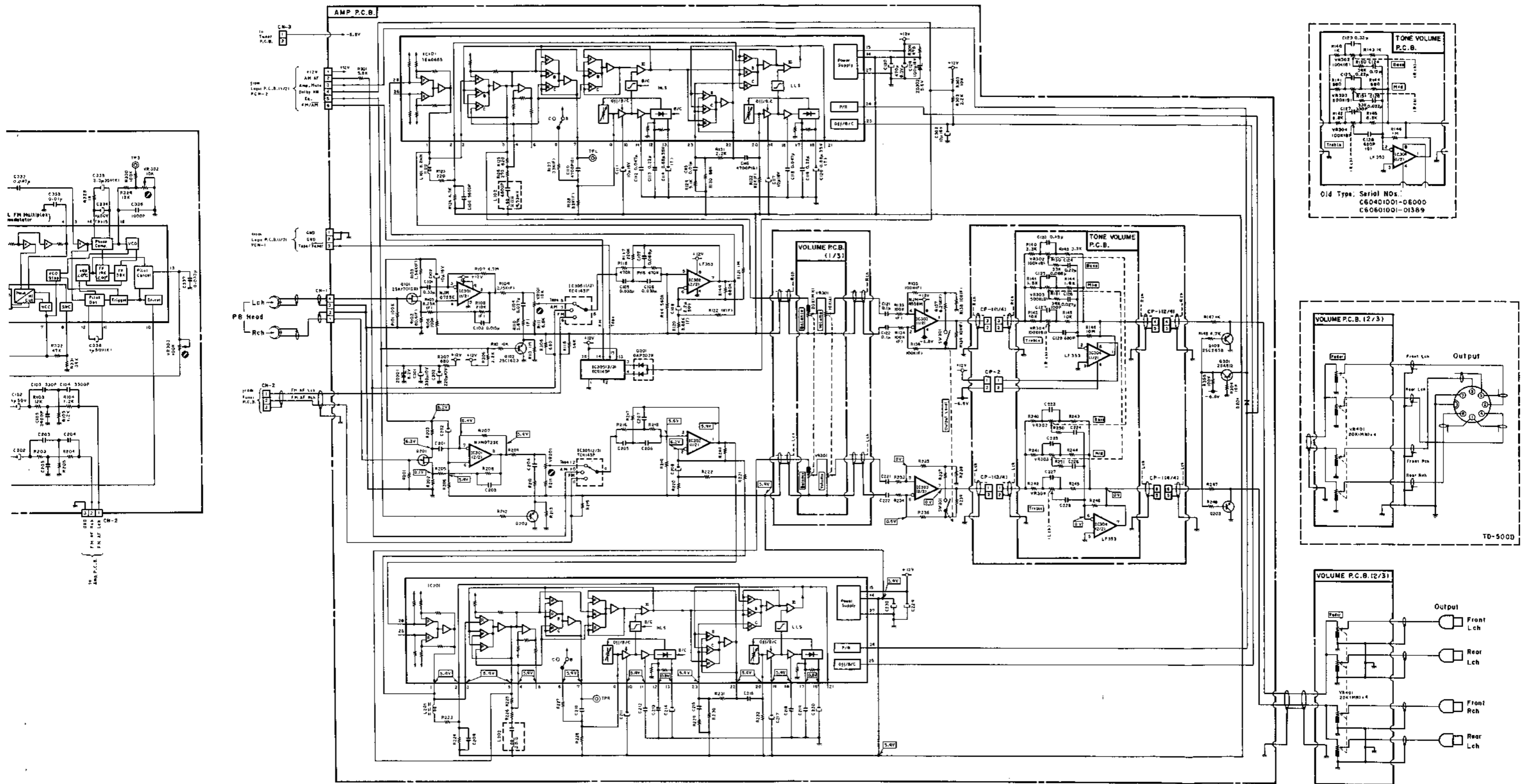
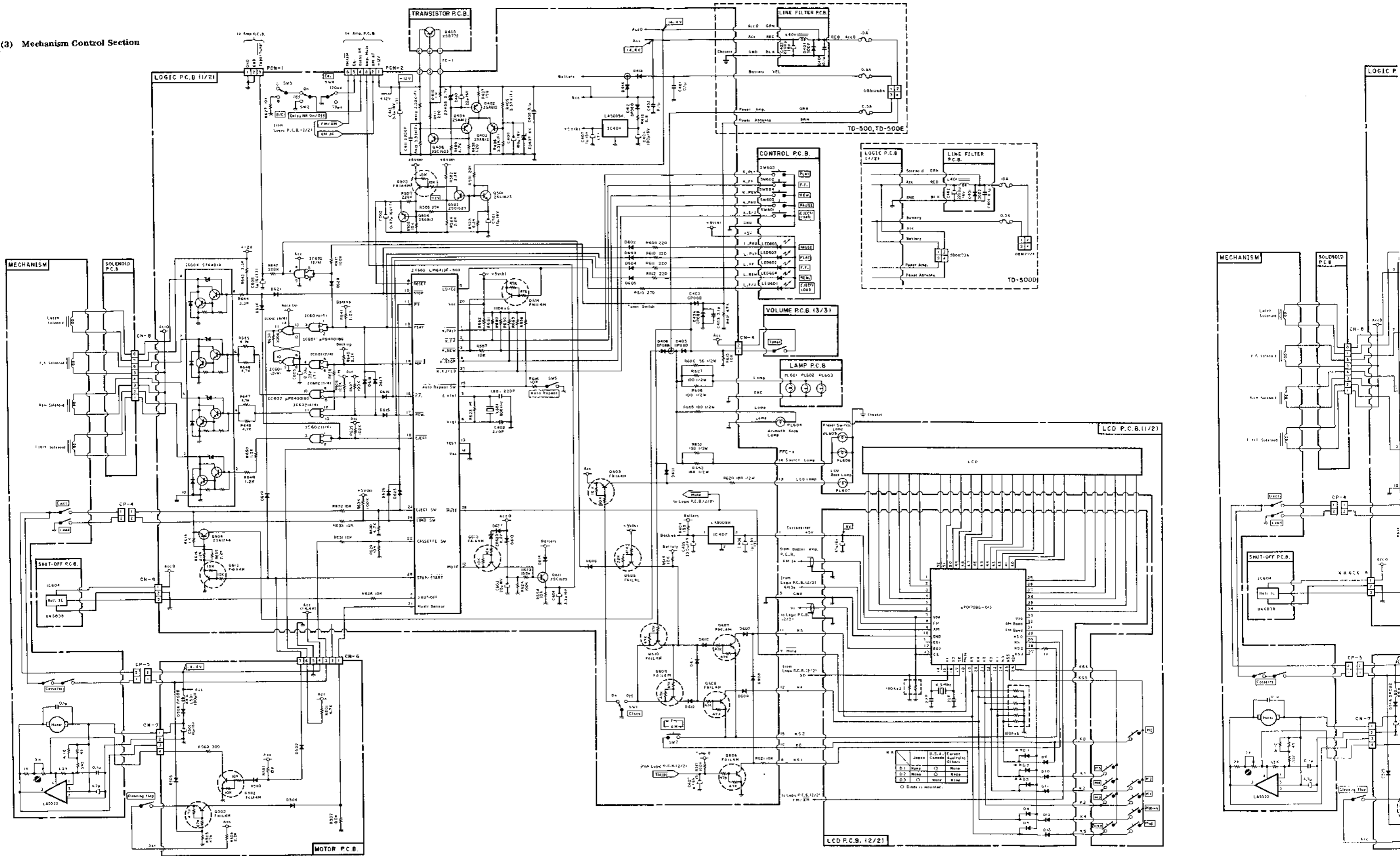


Fig. 9.2.2

se specified.
35 are interchangeable with each other.

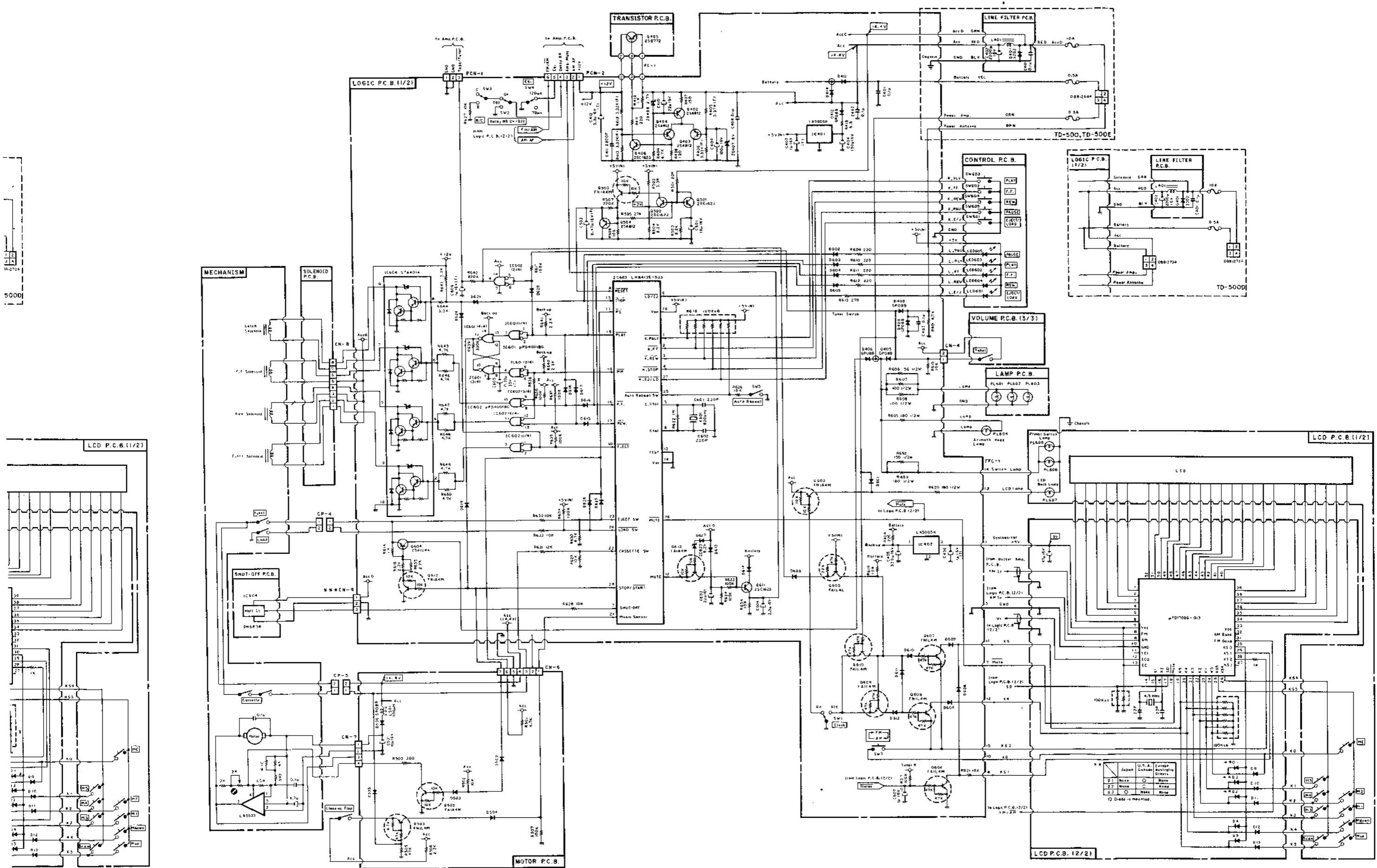
(3) Mechanism Control Section



Note: Diode is MA221 or RLS-73 unless otherwise specified.

Fig. 9.2.3.1 C60406401 - (TD-500 & TD-500E)

***: 3P coupler (CP-3) is used for the Models bearing part numbers C60401001 - 05145 (TD-500 & TD-500E).



***: 3P coupler (CP-3) is used for the Models bearing the following serial Nos.:
 C60401001 - 05145 (TD-500 & TD-500E) & C60601001 - 01389 (TD-500D)

Fig. 9.2.3.2 C60401001 - 06400 (TD-500 & TD-500E)
 C60601001 - (TD-500D)

10. WIRING DIAGRAMS

- Notes: 1 Table of wire colors
 BRN - Brown BLU - Blue
 RED - Red VIO - Violet
 ORN - Orange GRY - Gray
 YEL - Yellow WHT - White
 GRN - Green BLK - Black
2. Component side view of the P.C.B. is illustrated unless otherwise specified.

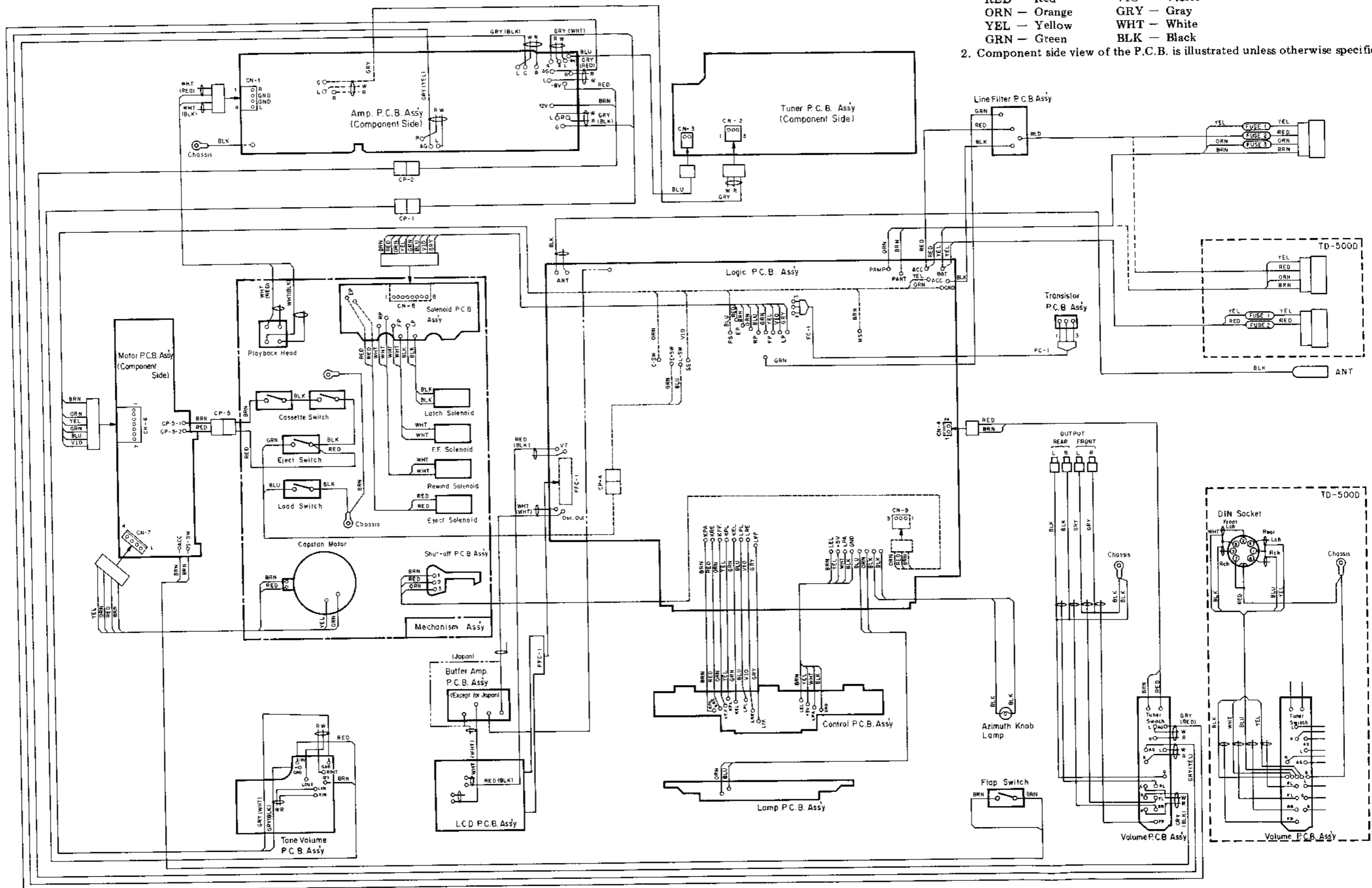


Fig. 10.1 C60405146 - (TD-500 & TD-500E)
 C60601390 - (TD-500D)

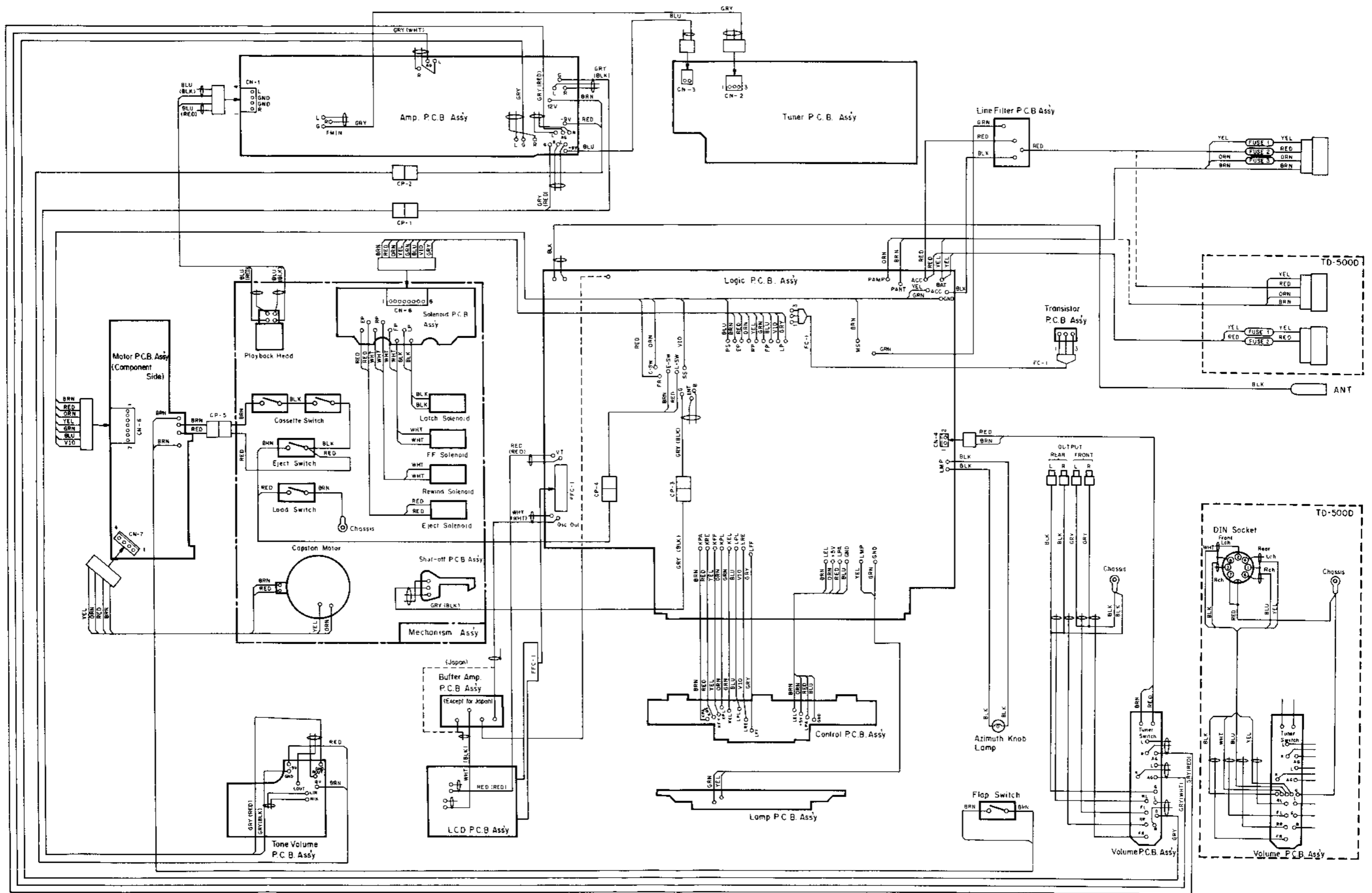


Fig. 10.2 C60401001 - 05145 (TD-500 & TD-500E)
 C60601001 - 01389 (TD-500D)

11. TIMING CHART

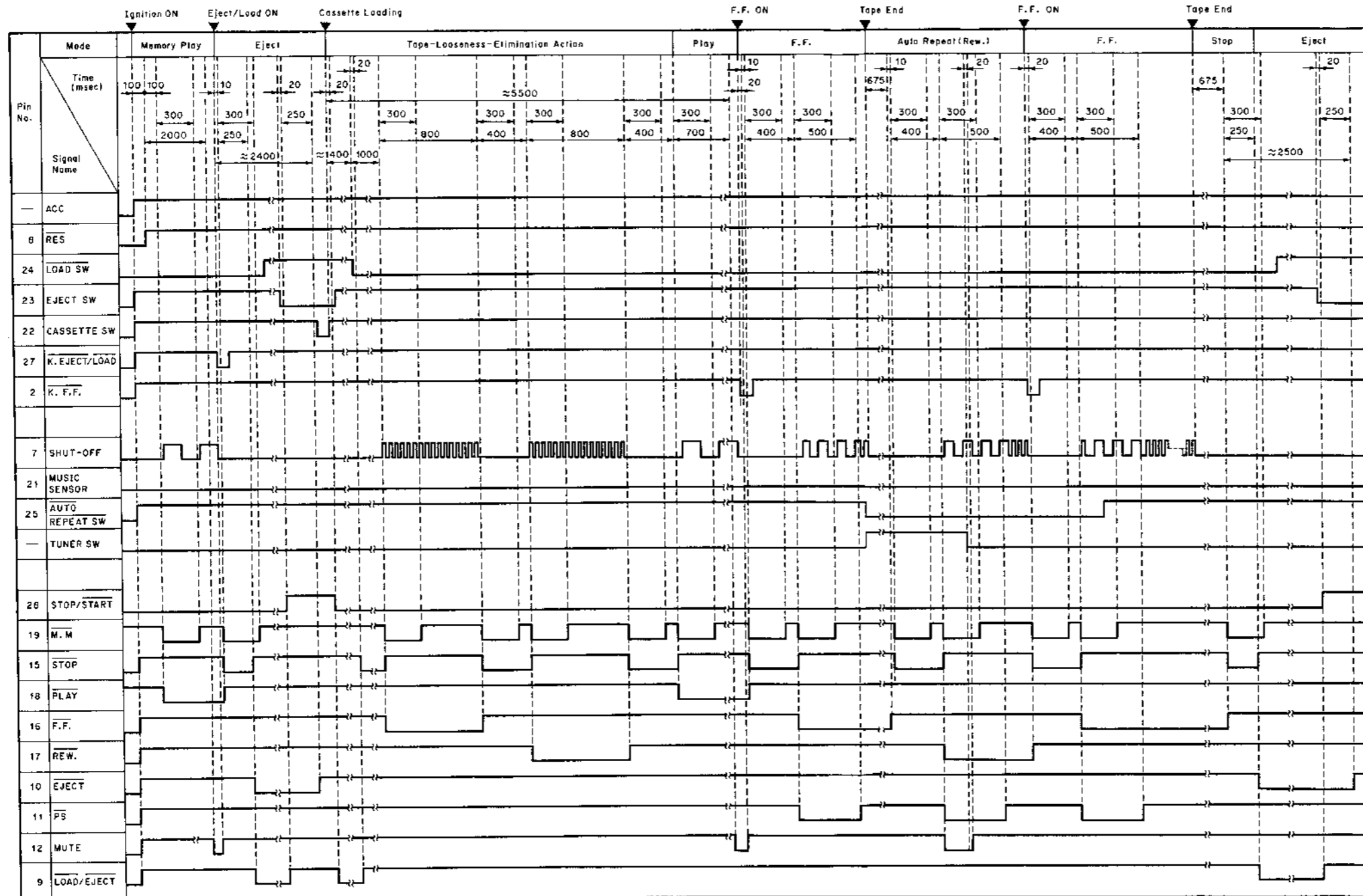


Fig. 11

12. BLOCK DIAGRAMS

12.1. Tuner and Amplifier Section

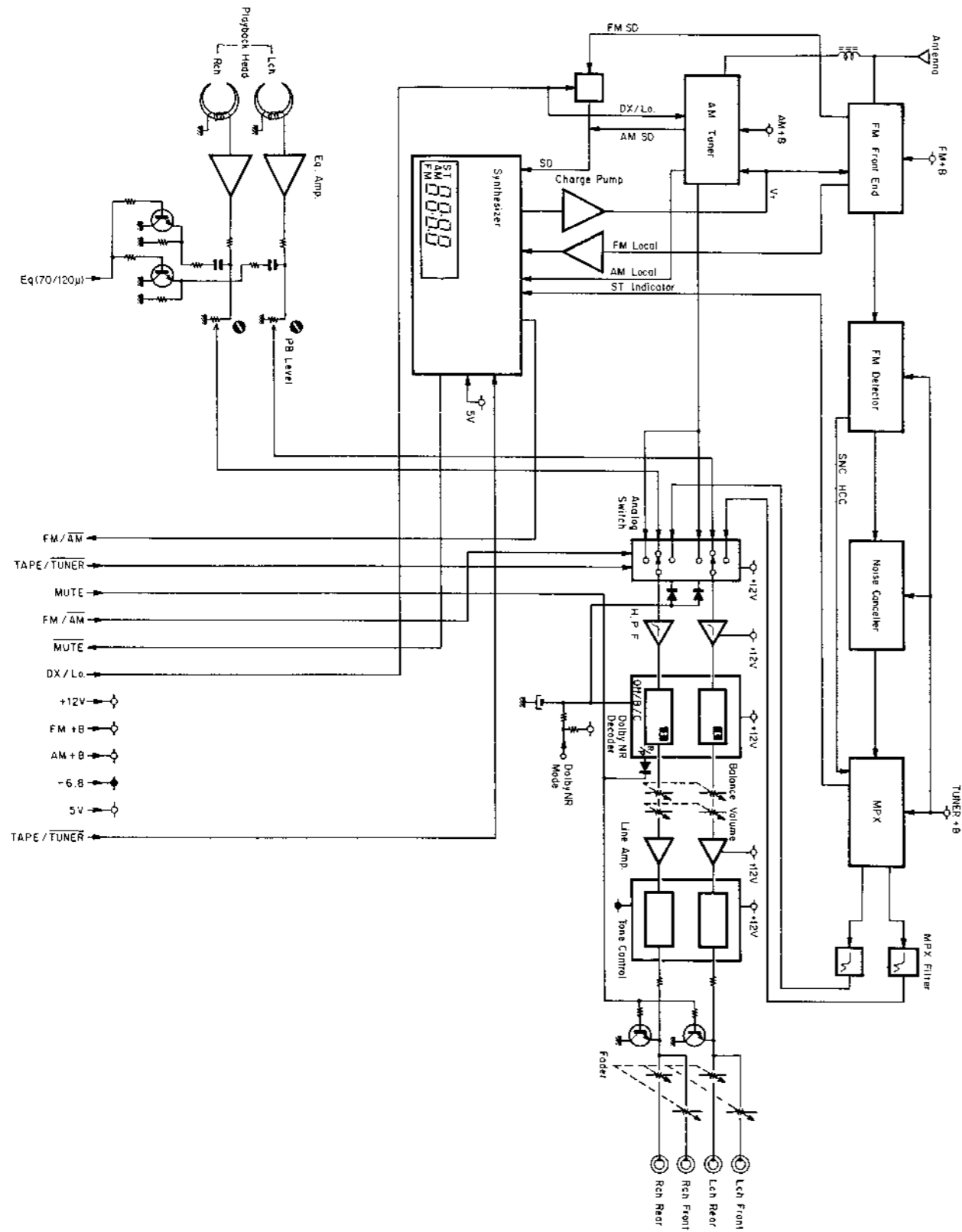


Fig. 12.1

12.2. Mechanism Control Section

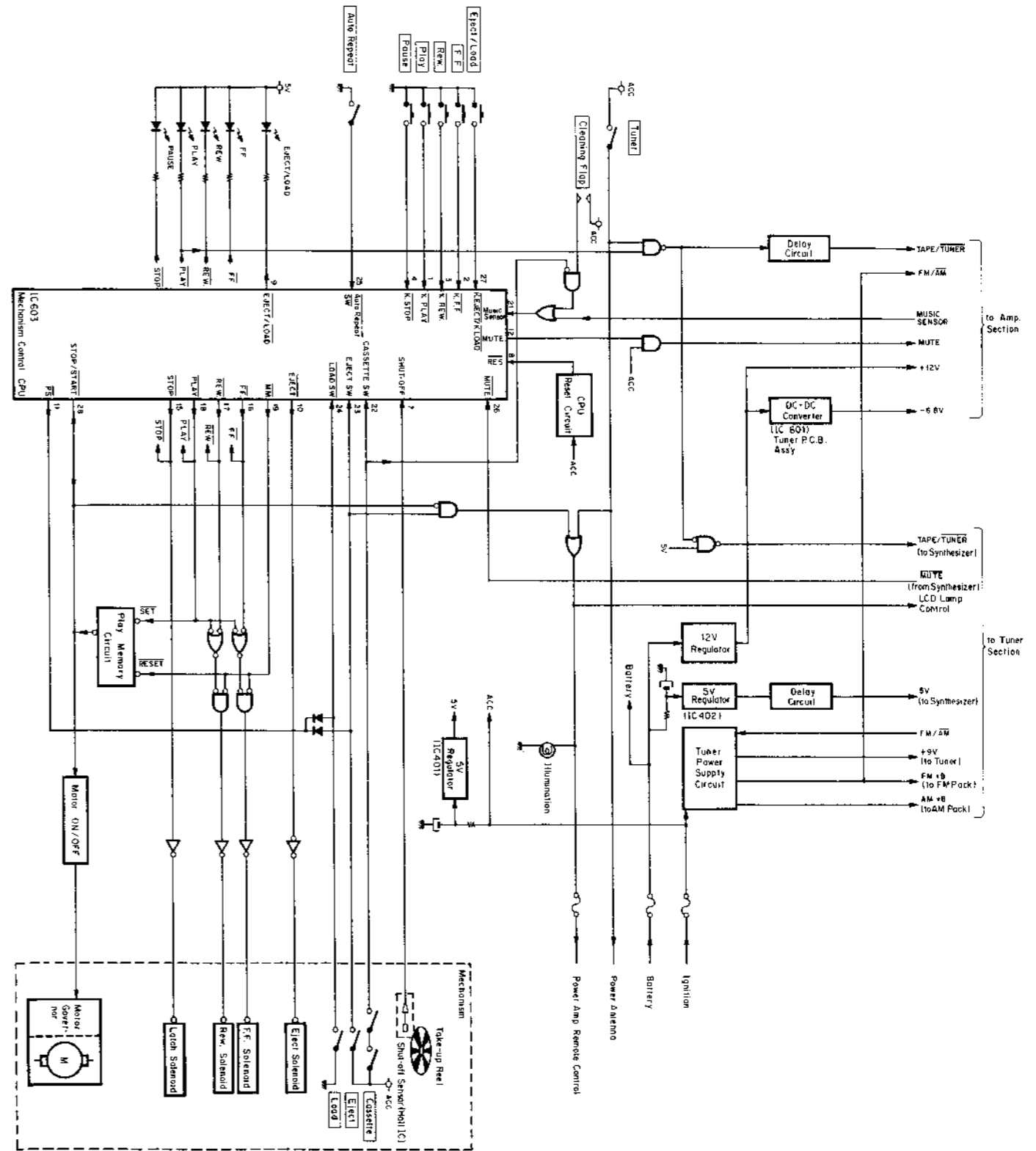


Fig. 12.2

13. SPECIFICATIONS

● Cassette Deck Section

Tape Speed	1-7/8 ips (4.8 cm/sec.)
Wow and Flutter	Less than 0.07% WTD RMS Less than $\pm 0.14\%$ WTD Peak
Frequency Response	20–21,000 Hz ± 3 dB (Nakamichi Test Tape)
Signal to Noise Ratio	Dolby C-Type NR On $\langle 70 \mu\text{s}, \text{ZX Tape} \rangle$ Better than 70 dB (400 Hz, 3% THD, IHF A-WTD RMS) Dolby B-Type NR On $\langle 70 \mu\text{s}, \text{ZX Tape} \rangle$ Better than 64 dB (400 Hz, 3% THD, IHF A-WTD RMS)
Channel Separation	Better than 34 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Winding Time (Fast Forward/Fast Reverse)	Approx. 75 sec. (with C-60 cassette)

● Tuner Section

—FM—

Frequency Range	87.5–107.9 MHz
Sensitivity	18 dBf (IHF)
50 dB Quieting Sensitivity	20 dBf (Mono)
Total Harmonic Distortion	0.15% (Mono 1 kHz) Input 65 dBf 0.3% (Stereo 1 kHz) Input 65 dBf
S/N Ratio	65 dB (Mono)
Frequency Response	30–15,000 Hz ± 3 dB
Alternate Channel Selectivity	65 dB (± 400 kHz)
Capture Ratio	2 dB
Image Rejection at 98 MHz	55 dB
IF Rejection at 98 MHz	80 dB
Stereo Separation	35 dB (1 kHz) at 65 dBf
Antenna Terminals	75 ohms (unbalanced)

—AM—

Frequency Range	530–1620 kHz
Sensitivity	33 dB μ

● Preamplifier Section

Frequency Response	10–50,000 Hz ± 1 dB
Output Level/Impedance	0.35 V (Low) or 1.1 V (High)/1 kohms
Total Harmonic Distortion	Less than 0.005%
Tone Control	
Bass	20 Hz ± 18 dB
Mid	200 Hz ± 10 dB
Treble	20 kHz ± 12 dB
Dimensions	178 (W) x 50 (H) x 165 (D) mm 7 (W) x 2 (H) x 6-1/2 (D) inches
Approximate Weight	1.8 kg/3 lb. 15 oz.
Power Source	14.4 V DC negative ground (10.8–15.6 V allowable)
Power Consumption	6.5 A Maximum

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