

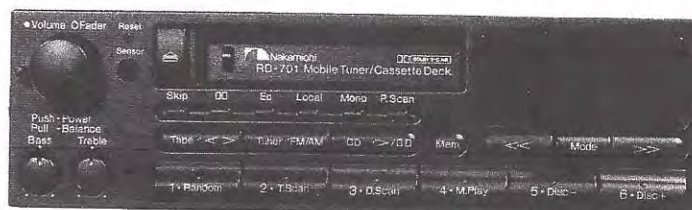


Nakamichi

Service Manual

Nakamichi TD-560 TD-560T

Mobile Tuner/Cassette Deck



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1. GENERAL

1.1. CAUTION

For Lithium Battery:

Use ONLY replacement parts recommended by the manufacturer.

Replacement must be done only by qualified service personnel because of risk for explosion.

1.2. Destination

- TD-560 U.S.A. & Canada
- TD-560T Thailand
- RD-701 Australia, Other & Japan

Abbreviation

USA — U.S.A.
 CAN — Canada
 THA — Thailand
 AUS — Australia
 OTR — Other
 JPN — Japan

1.3. Package Ass'y

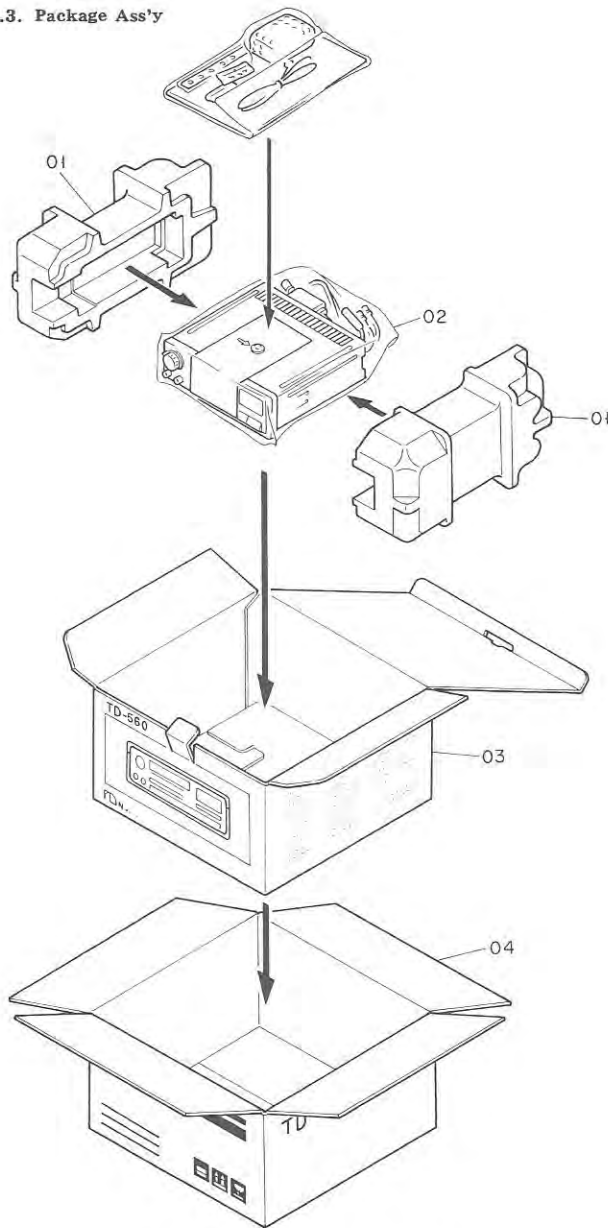


Fig. 1.1.1 TD-560, TD-560T

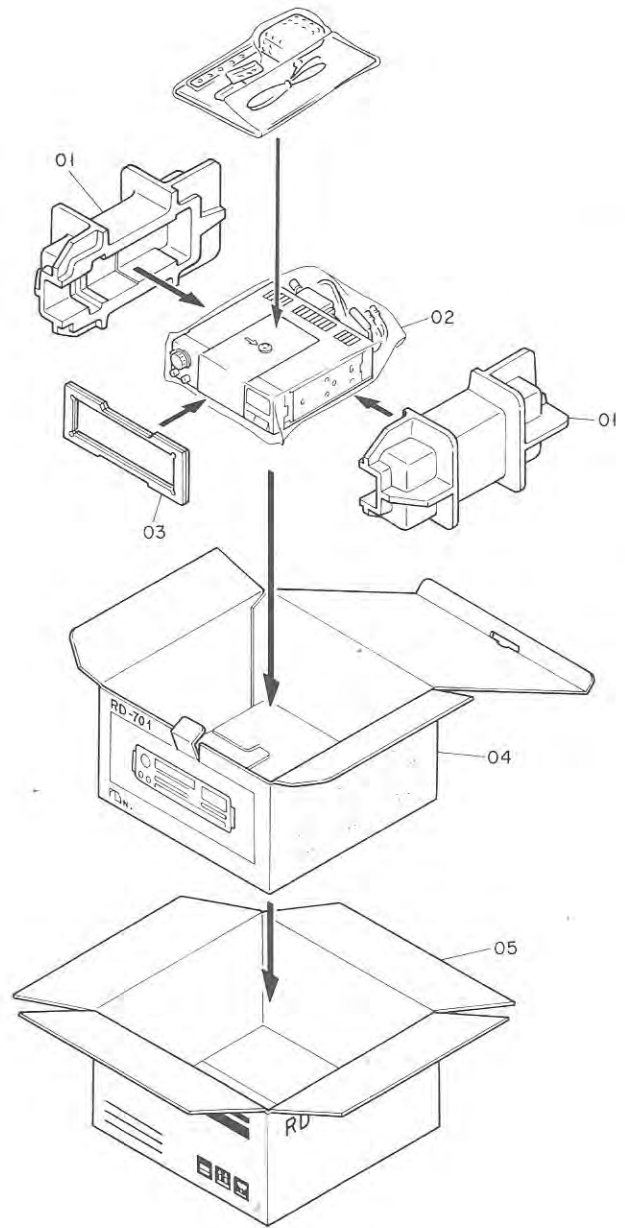


Fig. 1.1.2 RD-701

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
		Package Ass'y (TD-560, TD-560T)				Package Ass'y (RD-701)	
01	OC84472A	Packing	2	01	OC84473A	Packing (AUS, OTR)	2
02	OF03697A	Poly Bag (For Set)	1		OF04349A	Packing (JPN)	2
03	OC84470A	Inner Carton (USA, CAN)	1	02	OF03697A	Poly Bag (For Set)	1
	OC84829A	Inner Carton (THA)	1	03	OF04276A	Packing Sleeve G	1
04	OC84471A	Outer Carton (USA, CAN)	1	04	OC84658A	Inner Carton (AUS, OTR)	1
	OC84832A	Outer Carton (THA)	1		OC84657A	Inner Carton (JPN)	1
				05	OC84660A	Outer Carton (AUS, OTR)	1
					OC84659A	Outer Carton (JPN)	1

1.4. Accessory Ass'y

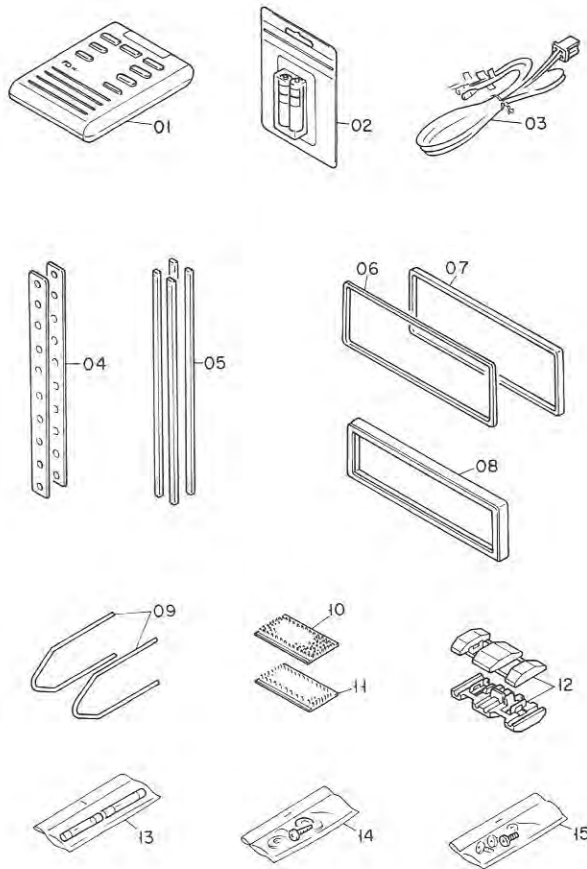


Fig. 1,2

Schematic Ref. No.	Part No.	Description	Q'ty
	—	Accessory Ass'y	1
01	CA81350A	Remote Control Unit	1
02	0B90405A	Battery 1.5V UM-4	1
03	0B83766A	4P Terminal Ass'y (AUS, OTR, JPN)	1
04	0J05467A	Metal Stay	1
05	0B90359A	Masking Tape N829 (JPN)	4
06	0J04879A	Sleeve Spacer A (USA, CAN, THA)	1
07	0J04880A	Sleeve Spacer B (USA, CAN, THA)	1
08	0H05211A	Trim Panel Rim (AUS, OTR)	1
09	0J05468A	U-Shaped Grip (AUS, OTR)	2
10	0D04721A	Velcro Strip (Female)	1
11	0D04720A	Velcro Strip (Male)	1
12	0B90043A	Cable Clip AMP171425-1RED (JPN)	2
13	0B90018A	Fuse 1A	1
	0B90144A	Fuse 2A	1
14	DA04324A	Screw Ass'y (USA, CAN, THA)	1
	DA03823A	Screw Ass'y (AUS, OTR)	1
15	DA03825A	Screw Ass'y (JPN)	1
—	0C84353A	Owner's Manual TD-560, TD-560T (English/French) (USA, CAN, THA)	1
—	0C84656A	Owner's Manual RD-701 (English) (AUS, OTR)	1
—	0C84655A	Owner's Manual RD-701 (Japanese)	1
—	0D04210A	Poly Bag for Accessory 130x250	1
—	0D04521A	Poly Bag for Accessory 250x250	1
—	0D04212A	Poly Bag for Knob	1
—	0F03842A	Poly Bag for Escutcheon (USA, CAN AUS, OTR, THA)	1

2. REMOVAL PROCEDURES

2.1. Top Cover Ass'y and Bottom Cover Ass'y Refer to Fig. 2.1.

- (1) Loosen screws F01 (2 pcs.) and remove F02 (Top Cover Ass'y).
- (2) Loosen screws F03 (2 pcs.) and F04 (1 pce.), and remove F05 (Bottom Cover Ass'y).

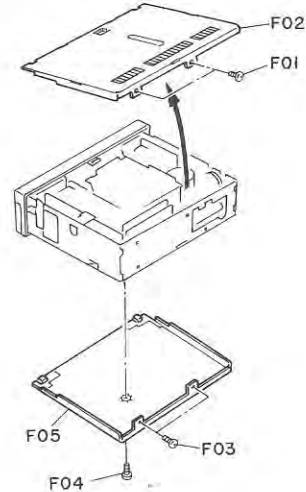


Fig. 2.1

2.2. Handle Ass'y and Front Panel Ass'y Refer to Fig. 2.2.

- (1) Remove the Top Cover Ass'y and Bottom Cover Ass'y referring to item 2.1.
- (2) Loosen screws F01 (4 pcs.) and remove F02 (Handle Ass'y). (For TD-560 & TD-560T only)
- (3) Pull out F03 (Volume Knob) and F04 (Fader Knob).
- (4) Loosen F05 (2 pcs.) and remove F06 (Front Panel Ass'y).

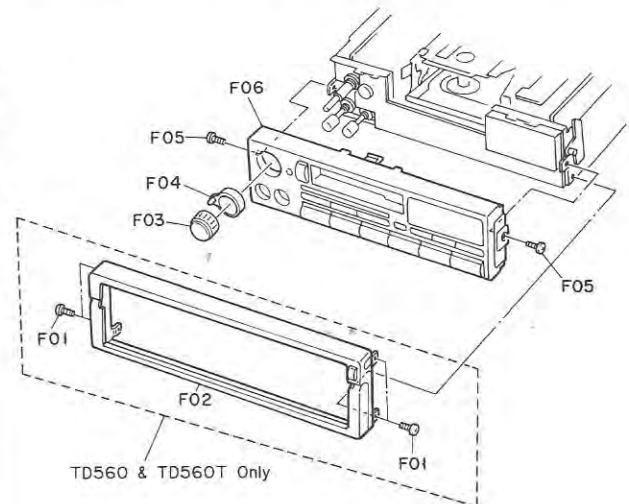


Fig. 2.2

2.3. Mechanism Ass'y

Refer to Figs. 2.3.1 and 2.3.2.

- (1) Remove the Top Cover Ass'y and Bottom Cover Ass'y referring to item 2.1.
- (2) Remove F01 (Buzzer Ass'y) by pushing it down with your fingers. (See Fig. 2.3.1.)
- (3) Loosen screws F02 (1 pce.) and F03 (2 pcs.), disconnect connectors, and remove F04 (Mechanism Ass'y & Mechanism Bracket).
- (4) Loosen screws F05 (4 pcs.) and remove F06 (Mechanism Bracket) from F07 (Mechanism Ass'y). (See Fig. 2.3.2.)

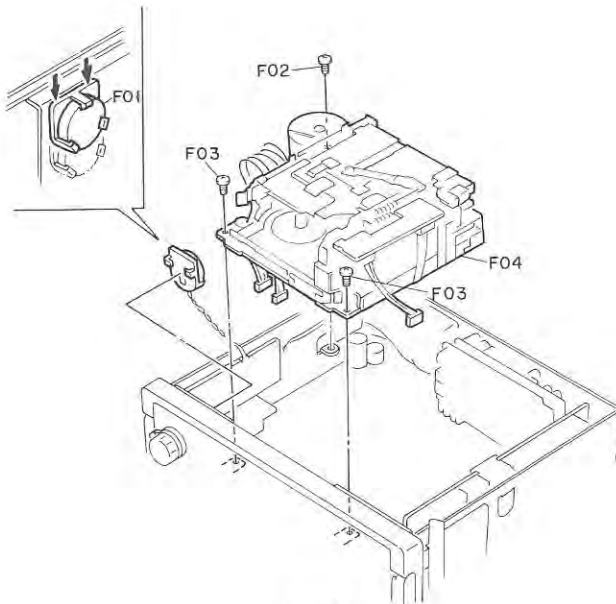


Fig. 2.3.1

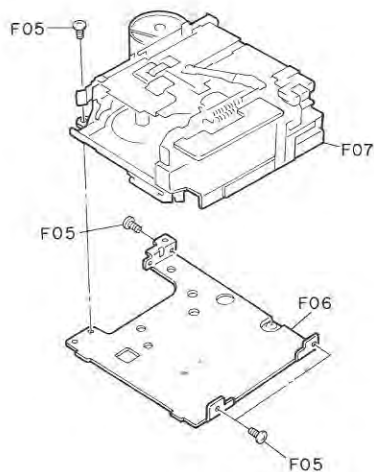


Fig. 2.3.2

2.4. Cassette Case and Cassette Case Plate Ass'y of Mechanism Ass'y

Refer to Figs. 2.4.1 and 2.4.2.

- (1) Remove the Mechanism Ass'y referring to item 2.3.
 - (2) Turn F01 (Flywheel F Ass'y) in the direction of the arrow to move F02 (Catch Arm Ass'y) rearward. (See Fig. 2.4.1.)
 - (3) Unhook F03 (Chip Arm Spring). (See Fig. 2.4.2.)
 - (4) Loosen screws F04 (1 pce.), F05 (1 pce.) and F06 (1 pce.), and remove F07 (Sub Chassis Ass'y, Deck P.C.B. & other parts).
 - (5) Remove F08 (Cassette Case) and F09 (Cassette Case Plate).
- Note: When installing parts, first install F07 and F08, and then F09.

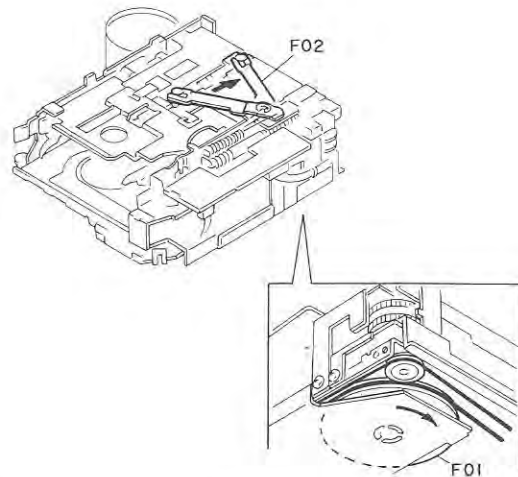


Fig. 2.4.1

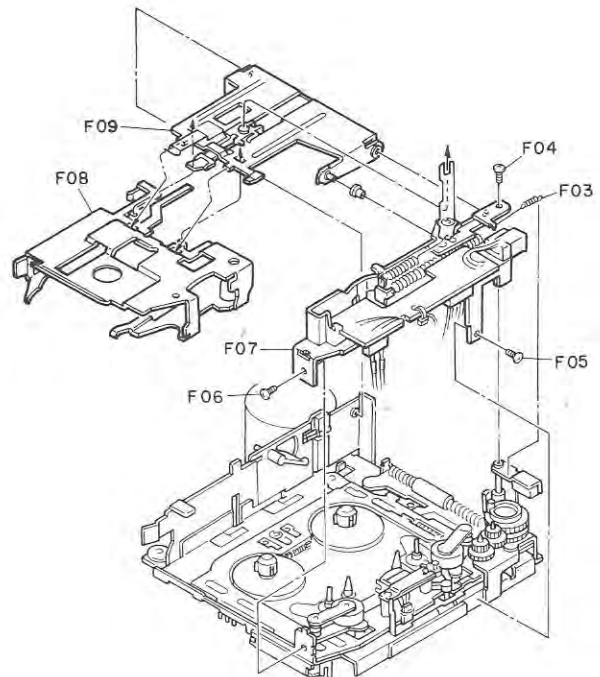


Fig. 2.4.2

2.5. P-4C Head Ass'y and Pressure Roller Arm Assemblies

Refer to Fig. 2.5.

- (1) Remove the Cassette Case and Cassette Case Plate Ass'y referring to item 2.4.
- (2) Loosen a screw F01 (1 pce.), and remove F02 (Azimuth Plate) and F03 (P-4C Head Ass'y).
- (3) Disengage F04 (E-ring 1.5mm), and remove F06 (Pressure Roller Arm R Spring) from F05 (Pressure Roller Arm R Ass'y).
- (4) Disengage F07 (E-ring 1.5mm), and remove F09 (Pressure Roller Arm F Spring) from F08 (Pressure Roller Arm F Ass'y).

Note: When installing the springs, see the bottom of the figure.

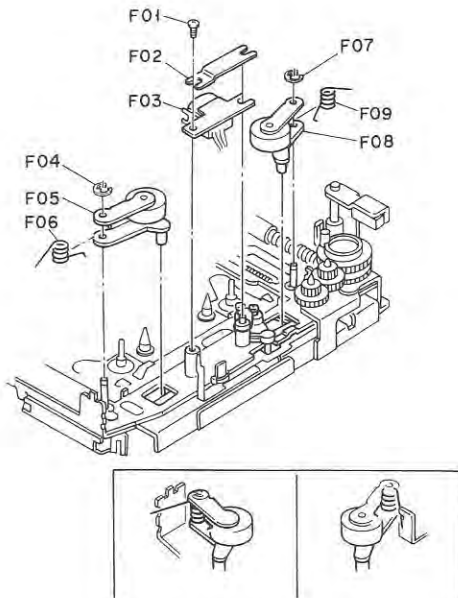


Fig. 2.5

2.6. Reel Hub Assemblies

Refer to Fig. 2.6.

- (1) Remove the Cassette Case and Cassette Case Plate Ass'y referring to item 2.4.
- (2) Remove F01 (Plastic Washer (Black)), F02 (Reel Hub), and F03 (Reel Hub Spring).
- (3) Unhook F04 (Brake Spring) and remove F05 (Reel Hub Ass'y).
- (4) Apply the same procedures, (2) and (3), to another Reel Hub Ass'y.

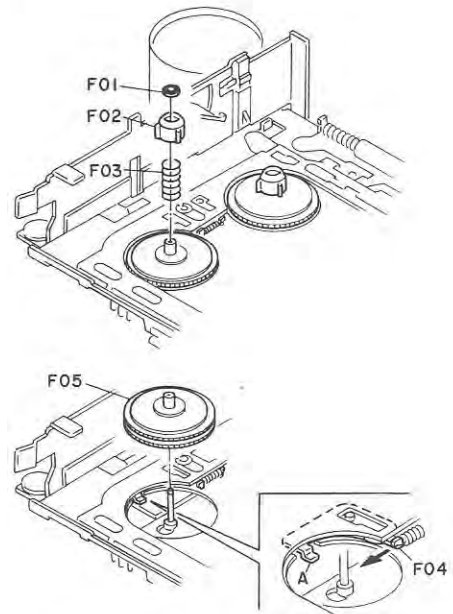


Fig. 2.6

2.7. Main Belt and Flywheel Assemblies

Refer to Fig. 2.7.

- (1) Remove the Mechanism Ass'y referring to item 2.3.
- (2) Loosen screws F01 (3 pcs.) and remove F02 (Flywheel Holder).
- (3) Disengage F03 (Main Belt).
- (4) Remove F04 (Plastic Washer (Black)) and F05 (Flywheel F Ass'y).
- (5) Apply the same procedure (4) to the Flywheel R Ass'y. (Note the shape of each Flywheel Ass'y. They differ each other.)

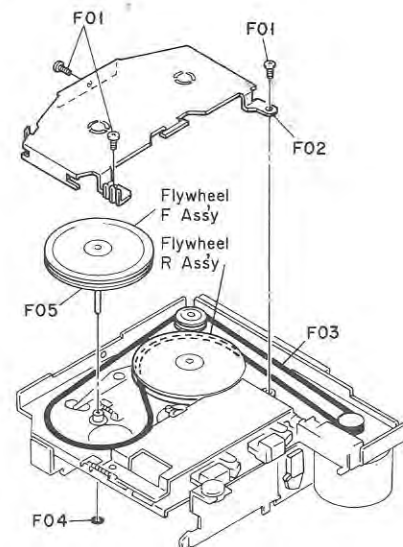


Fig. 2.7

3. TEST TAPES

- (1) 3 kHz Speed and Wow/Flutter Tape (DA09006C)
- (2) 400 Hz Level Tape (DA09005B)
- (3) 15 kHz Azimuth Tape (DA09004B)
- (4) 10 kHz PB Frequency Response Tape (DA09003B)
- (5) 15 kHz PB Frequency Response Tape (DA09002B)

4. MECHANICAL ADJUSTMENTS

4.1. Tape Speed Adjustment

Refer to Fig. 4.1.

- (1) Remove the Top Cover Ass'y referring to item 2.1.
- (2) Connect a frequency counter to the Output Jacks.
- (3) Load a 3 kHz Speed and Wow/Flutter Tape (DA09006C) and play it back.
- (4) Adjust the tape speed adjustment volume incorporated in the Motor Ass'y to obtain 3,000 Hz on the frequency counter.

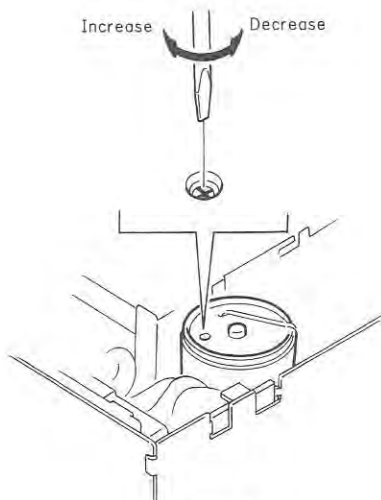


Fig. 4.1

4.2. Playback Head Azimuth Alignment

Refer to Fig. 4.2.

- (1) Remove the Top Cover Ass'y referring to item 2.1.
- (2) Connect an AC voltmeter to the Output Jacks.
- (3) Load a 15 kHz Azimuth Alignment Tape (DA09004B).
- (4) Press the "Tape <>" button to forward-play the tape back.
- (5) Adjust the Forward Azimuth Alignment Screws to obtain maximum readings for both channels on the AC voltmeter. Note the readings.
- (6) Press the ">>" and "<<" buttons alternately several times to fast-wind and rewind the tape.
- (7) Press the Eject button and load the tape again. (The tape is automatically forward-played back.)
- (8) Check whether the readings stay the same as in (5). If not, repeat (5) through (7).
- (9) Press the Eject button, turn over the tape, and load it again. (The tape is automatically forward-played back.)
- (10) Press the "Tape <>" button to enter Reverse-Playback mode.
- (11) Adjust the Reverse Azimuth Alignment Screw to obtain maximum readings for both channels on the AC voltmeter. Note the readings.
- (12) Press the ">>" and "<<" buttons alternately several times to fast-wind and rewind the tape.
- (13) Press the Eject button and load the tape again. (The tape is now automatically reverse-played back.)
- (14) Check whether the readings stay the same as in (11). If not, repeat (11) to (13).

Note: The adjustment hole to gain access to the Forward and Reverse Azimuth Alignment Screws is only one. The location of the screws changes according to mode, Forward-Playback or Reverse-Playback.

So, pay attention to the tape travelling direction viewing the display on the LCD while adjusting the screw.

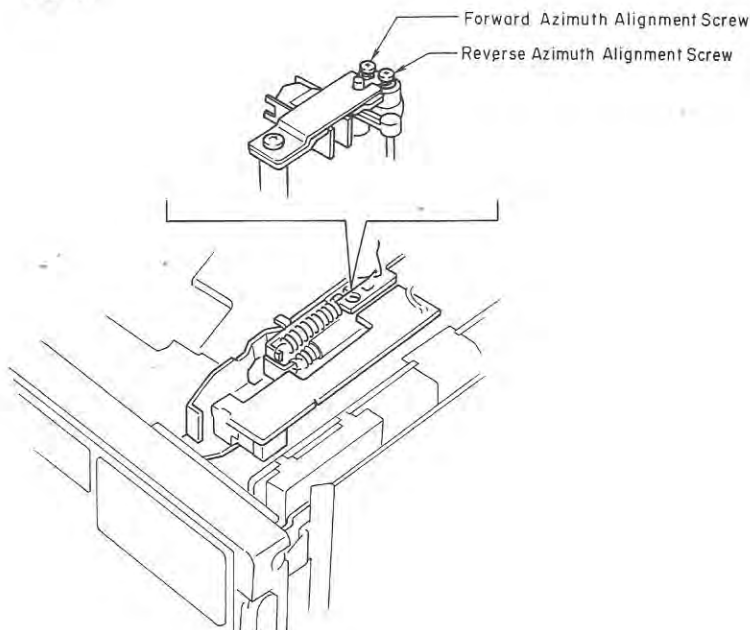


Fig. 4.2

5. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

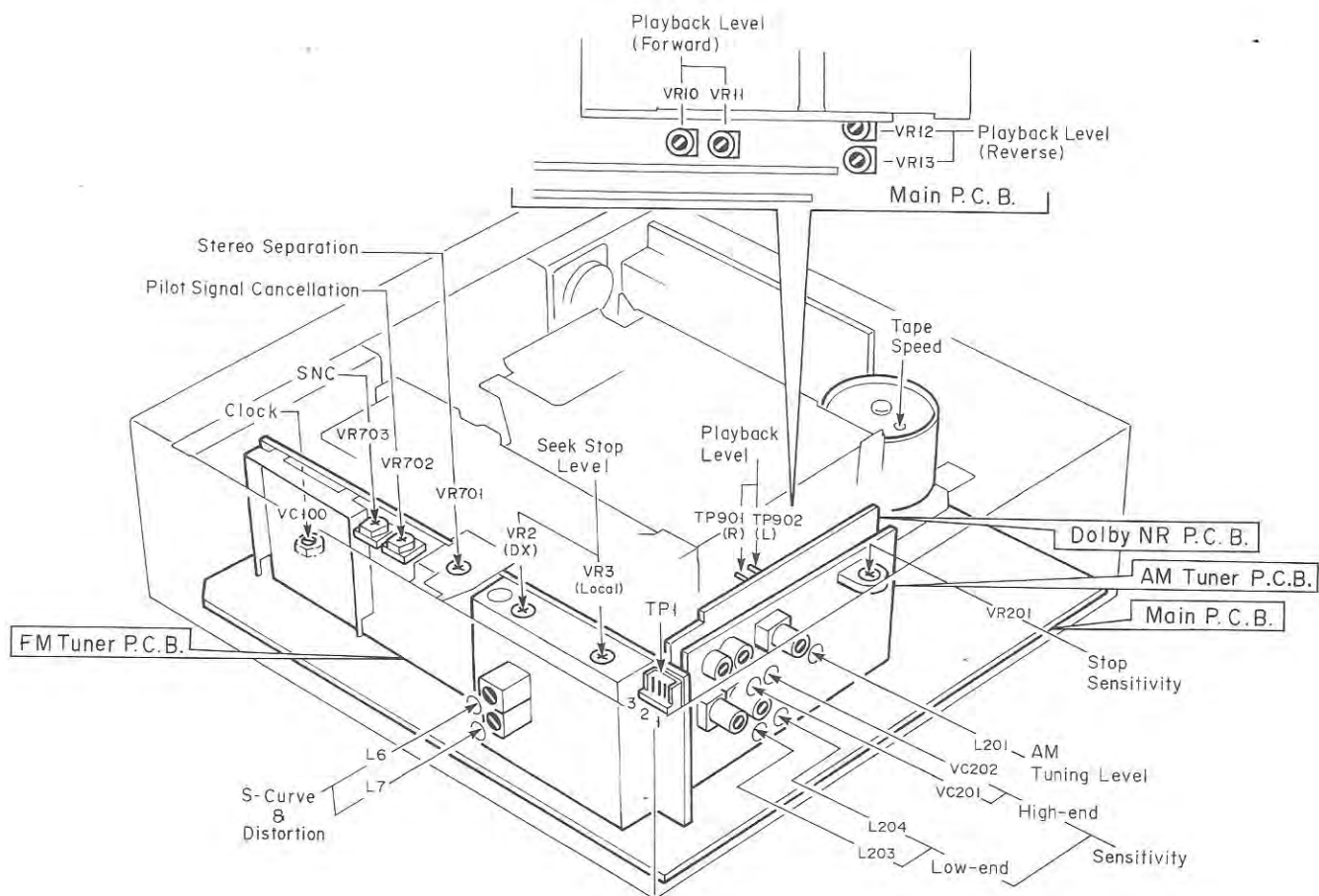


Fig. 5

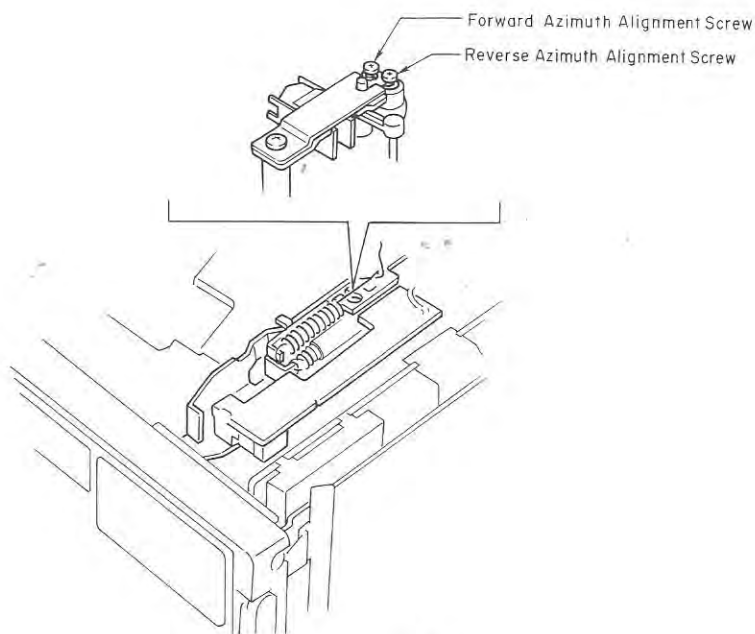


Fig. 6.1

6. ELECTRICAL ADJUSTMENTS

6.1. Cassette Deck Section

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step			Volume - Max. Fader, Balance - Center Bass, Treble - Center Dolby NR - OFF Eq. - 70 μ s		Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE).
2	Tape Speed Adjustment	3 kHz Speed and Wow/Flutter Tape (DA09006C)	Frequency Counter to Output Jacks	Forward-Play	Tape Speed Adj. Volume (Motor Ass'y)	Adjust the tape speed adjustment volume to obtain 3,000 Hz on the frequency counter.
3	Playback Level Adjustment	400Hz Level Tape (DA09005B)	AC Voltmeter to TP902 (L), TP901 (R) on Dolby NR P.C.B.	Forward-Play Reverse-Play	Main P.C.B. (Fwd.) VR10(L) VR12(R) (Rev.) VR11(L) VR13(R)	1. Load a 400 Hz level tape and forward-play it back. 2. Adjust VR10 (VR12) to obtain 245 mV $\pm$ 5 mV on the AC voltmeter. 3. Press the Eject button. Turn over the 400 Hz level tape and load it again. (The tape will be automatically forward-played back.) 4. Press the "Tape < >" button to reverse-play back the tape. 5. Adjust VR11 (VR13) to obtain 245 mV $\pm$ 5 mV on the AC voltmeter.
4	Playback Head Azimuth Alignment	15 kHz Azimuth Tape (DA09004B)	AC Voltmeter to Output Jacks	Forward-Play/ Reverse-Play	Forward/ Reverse Azimuth Alignment Screws	Adjust the Forward/Reverse Azimuth Alignment Screws to obtain maximum readings on the AC voltmeter. Refer to item 4.2.
5	Playback Frequency Response Check	400Hz Level Tape (DA09005B) 10 kHz and 15 kHz PB Frequency Response Tapes (DA09003B and DA09002B)	AC Voltmeter to Output Jacks	Forward-Play/ Reverse-Play		1. Load a 400 Hz level tape, forward-play it back, and read the level on the AC voltmeter. 2. Load a 10 kHz PB frequency response tape and forward-play it back. 3. Turn the Forward Azimuth Alignment Screw to obtain peak reading on the AC voltmeter. (See Fig. 6.1.) Check whether the reading on the AC voltmeter is within the following range against the reading in 1. 10 kHz: -20 dB $\pm$ 2 dB 4. Load a 15 kHz PB frequency response tape and forward-play it back. 5. Turn the Forward Azimuth Alignment Screw to obtain peak reading on the AC voltmeter. (See Fig. 6.1.) Check whether the reading on the AC voltmeter is within the following range against the reading in 1. 15 kHz: -20 dB $\pm$ 3 dB 6. Load a 400 Hz level tape, reverse-play it back, and read the level. (to be continued)

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
						7. Load 10 kHz and 15 kHz PB frequency response tapes and reverse-play them back. Turn the Reverse Azimuth Alignment Screw to obtain peak readings with each tape. Check whether the levels are within the ranges given below against the reading in 6. 10 kHz: -20 dB $\pm$2 dB 15 kHz: -20 dB $\pm$3 dB 8. Conduct Step 4 "Playback Head Azimuth Alignment".

6.2. Tuner Section

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

o FM Adjustment

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step	See Fig. 6.2.	Mobile Tuner/ Cassette Deck Band Selector - FM Volume - Max. Fader, Balance - Center Bass, Treble - Center FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 65 dBf Modulation - See REMARKS		1. Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE). 2. Press the Tuner FM/AM button to enter Tuner mode. Note: Contents of modulation - o Stereo - Audio: 1 kHz, 50% - Pilot: 19 kHz, 10% - o Mono - Audio: 1 kHz, 100%
2	S-Curve Alignment and Distortion Adjustment	DC Voltmeter between pins 2 and 3 of TP1 on FM Tuner P.C.B.	Mobile Tuner/ Cassette Deck Same as above FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 65 dBf Modulation - Mono	FM Tuner P.C.B. (Front-end) L6 L7	1. Turn L6 to obtain 0 $\pm$50 mV on the DC voltmeter. 2. Turn L7 to obtain minimum distortion (less than 0.5%) on the distortion meter. 3. Repeat 1 and 2 one or two times.

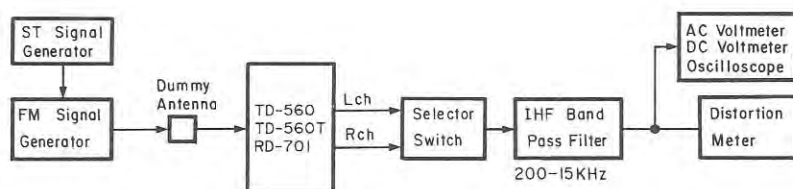


Fig. 6.2

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
3	Pilot Signal Cancellation Adjustment	Oscilloscope to Line Output Jacks	Mobile Tuner/Cassette Deck Same as above FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 75 dBf Modulation - Stereo	FM Tuner P.C.B. VR702	1. Set the modulation of FM Generator as follows: o Cut audio signal 1 kHz o Apply only pilot 19 kHz 10% 2. Adjust VR702 to obtain minimum levels on the oscilloscope for both channels.
4	Stereo Separation Adjustment	AC Voltmeter to Line Output Jacks	Mobile Tuner/Cassette Deck Same as above FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 75 dBf Modulation - Stereo	FM Tuner P.C.B. VR701	1. Cut the 1 kHz modulation of R channel of the stereo modulator. Namely, apply 1 kHz signal to only L channel. 2. Adjust VR701 to obtain minimum reading on R channel of the AC voltmeter. 3. Apply 1 kHz signal to only R channel. 4. Adjust VR701 to obtain minimum reading on L channel of the AC voltmeter. 5. Check whether the readings in 2 and 4 are less than -25 dB. If not, repeat 1 through 4 till satisfactory results are obtained.
5	SNC Adjustment	AC Voltmeter to Line Output Jacks	Mobile Tuner/Cassette Deck Same as above FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 40 dBf Modulation - Stereo	FM Tuner P.C.B. VR703	1. With the RF level 40 dBf, measure the separation (L → R and R → L) referring to Step 4. 2. Adjust VR703 to obtain 12.5 dB $\pm$ 3 dB on the AC voltmeter. Notes: 1. When adjusting VR703, read the AC voltmeter after its reading has been well-established, as the response is extremely slow. 2. If satisfactory result is not obtained, raise the RF level from 40 to 46 dBf. Then, check whether the AC voltmeter reads more than 12.5 dB.
6	Seek Stop Level Adjustment	DC Voltmeter between pin 1 of TP1 and GND on FM Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Freq. - 98 MHz - 83 MHz(Japan) RF Level - 21 - 25 dBf/ 42 - 46 dBf Modulation - Mono	FM Tuner P.C.B. (Front-end) VR2 (DX) VR3 (Local)	1. Press the Local button to go out the "Local" indication on the LCD (DX mode). 2. Adjust VR2 so that the level on the DC voltmeter digitally changes from 1 V to 2 V when the RF level is changed from 21 to 25 dBf. 3. Press the Local button to light up the "Local" on the LCD (Local mode). 4. Adjust VR3 so that the level on the DC voltmeter digitally changes from 1 V to 2 V when the RF level is changed from 42 to 46 dBf.
7	Clock Adjustment	Frequency counter to connector pin 5 (OSC) of AM Tuner P.C.B.		Main P.C.B. VC100	(For Australia, Other & Japan only.) 1. Press the Tuner button (Tuner FM/AM) to select "AM". The LCD displays AM frequency of 531 kHz. 2. Adjust VC100 to obtain 981.000 kHz (531 kHz on LCD + 450 kHz) $\pm$ 10 Hz on the frequency counter.

o AM Adjustment

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Tuning Level Adjustment	DC Voltmeter to pin 4 of U201 on AM Tuner P.C.B.	Mobile/Tuner Cassette Deck Band Selector - AM AM Generator Not used,	AM Tuner P.C.B. L201	1. With no input Signal from the AM Signal Generator. Set the frequency of the TD-560/560T, RD-701 to 530 (522) kHz. 2. Adjust L201 to obtain 1.4 V on the DC voltmeter.
2	Sensitivity Low-end & High-end Adjustment	AC Voltmeter to pin 7 of U201 on AM Tuner P.C.B.	Mobil/Tuner Cassette Deck Same as above AM Generator Freq. - 600(603) kHz 1400(1404) kHz Modulation - 1 kHz 30%	AM Tuner P.C.B. L203 L204 (Low-end) VC201 VC202 (High-end)	1. Set the frequency of the AM Signal Generator to 600 kHz (603 kHz) and make tuning. 2. Adjust L203 & 204 to obtain maximum reading on the AC voltmeter. 3. Set the frequency of the AM Signal Generator to 1400 kHz (1404 kHz) and make tuning. 4. Adjust VC201 & VC202 to obtain maximum reading on the AC voltmeter. 5. Repeat 1 through 4 twice to make fine adjustment.
3	Stop Sensitivity Adjustment	DC Voltmeter to TP203 on AM Tuner P.C.B.	Mobile/Tuner Cassette Deck Same as above AM Generator Freq. - 1000(999) kHz RF Level - 35 dBu Modulation - 1 kHz 30%	AM Tuner P.C.B. VR201	1. Set the frequency of the AM Signal Generator to 1000 kHz (999 kHz) and make tuning. 2. Adjust VR201 to obtain 1.2 to 1.4 V on the DC voltmeter.

7. MECHANISM ASS'Y AND PARTS LIST

7.1. Synthesis

(1) TD-560, TD-560T

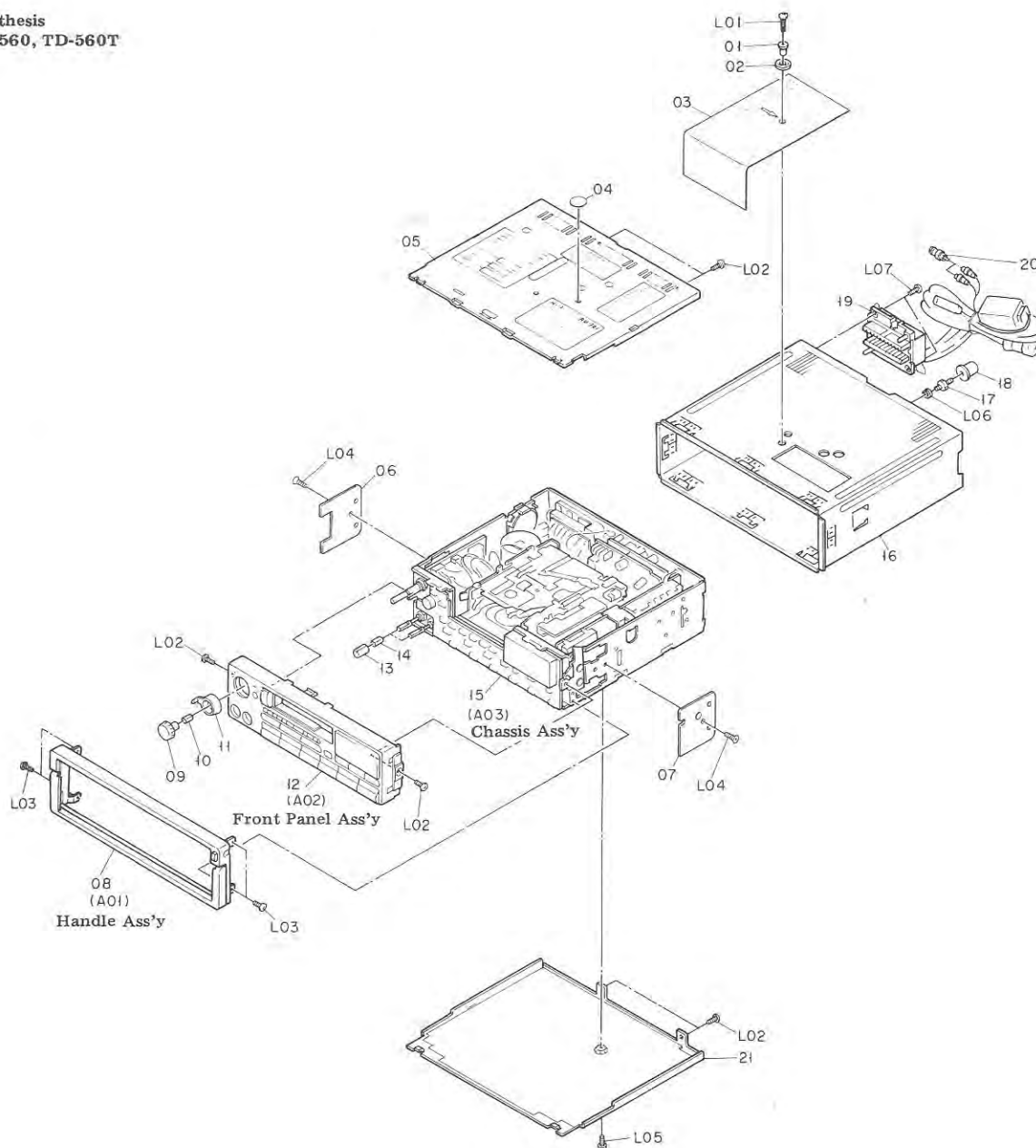


Fig. 7.1.1 TD-560, TD-560T

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.1. Synthesis				13	0C84310A	Tone Knob	2
				14	0J05479A	Knob Spring for Tone Knob	2
				15	—	Chassis Ass'y	1
				16	0C84477A	Mounting Sleeve	1
				17	0J05576A	Hold Screw	1
				18	0C83799A	Rubber Cap	1
				19	CA81302A	Pin Connector Ass'y	1
				20	0D04849A	RCA Shorting Plug	2
				21	CA81287A	Bottom Cover Ass'y	1
				L01	0E00759A	M2.6x10 @ Binding	
				L02	0E03203A	ST2.6x5 @ Binding	
				L03	0E03573A	ST2.6x4 @ Binding	
				L04	0E03441A	ST2.6x6 @ Countersunk	
				L05	0E00791A	M2.6x6 @ Binding	
				L06	0E00574A	Washer 4mm (Spring)	
				L07	0E00818A	M3x8 @ Binding (Black Chromate)	
01	0C84754A	Collar 7.0	1				
02	0C84752A	Rubber Washer	1				
03	0M05464A	Caution Label (USA, CAN)	1				
	0M05465A	Caution Label (THA)	1				
04	0M05155A	Azimuth Label	1				
05	CA81286A	Top Cover Ass'y (USA, CAN)	1				
	CA81429A	Top Cover Ass'y (THA)	1				
06	0C84086A	PVC Sheet L	1				
07	0C84087A	PVC Sheet R	1				
08	CA81051A	Handle Ass'y	1				
09	0C84312A	Volume Knob	1				
10	0J05478A	Knob Spring for Volume Knob	1				
11	0C84311A	Fader Knob	1				
12	CA81217A	Front Panel Ass'y (USA, CAN)	1				
	CA81428A	Front Panel Ass'y (THA)	1				

(2) RD-701

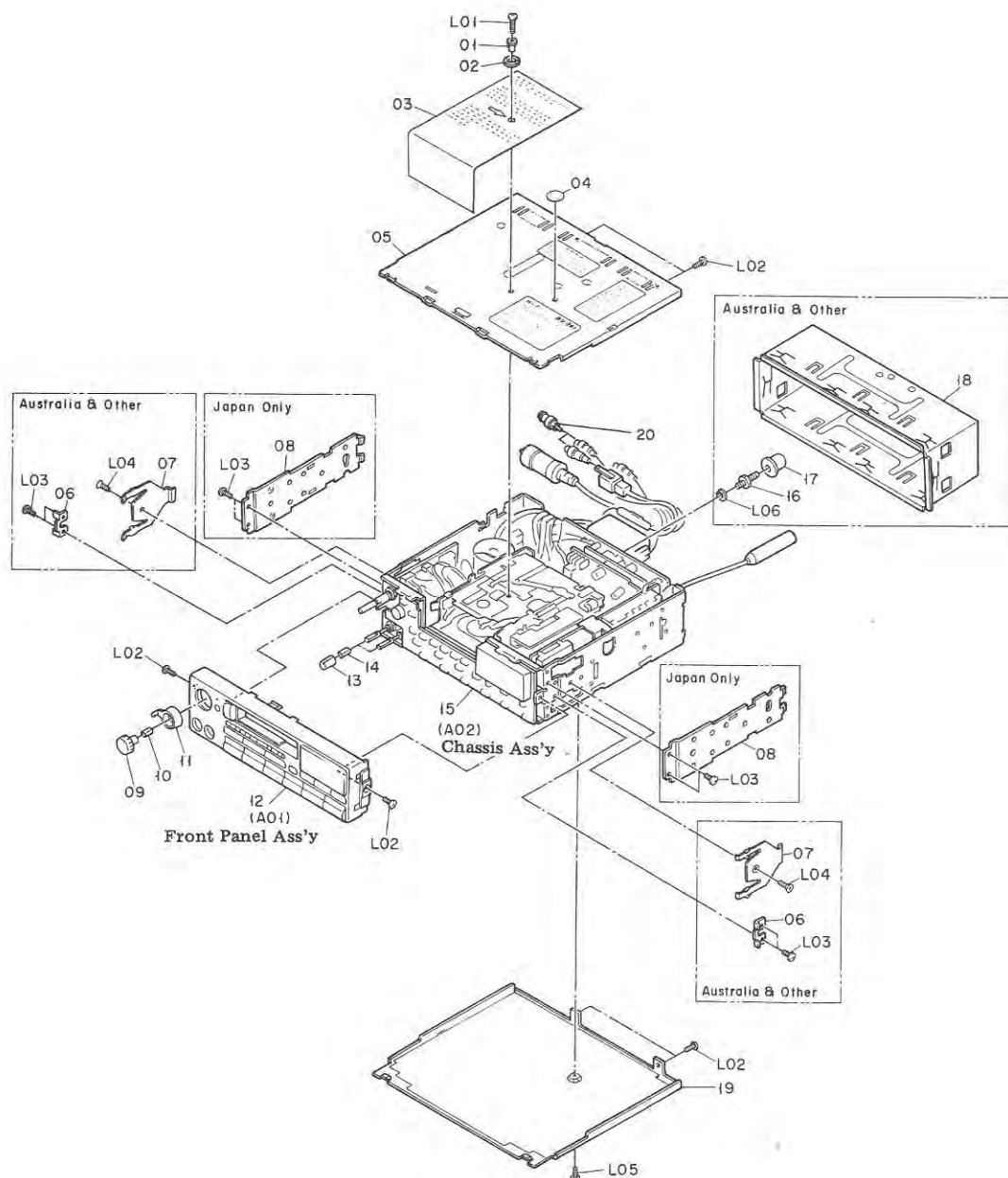


Fig. 7.1.2 RD-701

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.1. Synthesis				14	0J05479A	Knob Spring for Tone Knob	2
		Synthesis (RD-701)		15	—	Chassis Ass'y	1
01	0C84753A	Collar 5.5	1	16	0J05576A	Hold Shaft (AUS, OTR)	1
02	0C84752A	Rubber Washer	1	17	0C83799A	Rubber Cap (AUS, OTR)	1
03	0M05465A	Caution Label (AUS, OTR)	1	18	0H05226A	Mounting Sleeve (AUS, OTR)	1
	0M05464A	Caution Label (JPN)	1	19	CA81287A	Bottom Cover Ass'y	1
04	0M05155A	Azimuth Label	1	20	0D04849A	RCA Shorting Plug	2
05	CA81372A	Top Cover Ass'y (AUS, OTR)	1	L01	0E00759A	M2.6x10 @ Binding	
	CA81363A	Top Cover Ass'y (JPN)	1	L02	0E03203A	ST2.6x5 @ Binding	
06	0J05447A	Sleeve Stopper (AUS, OTR)	2	L03	0E03573A	ST2.6x4 @ Binding	
07	0J05471A	Sleeve Lock Plate (AUS, OTR)	2	L04	0E03441A	ST2.6x6 @ Countersunk (AUS, OTR)	
08	0C84122A	Mounting Bracket (JPN)	2	L05	0E00791A	M2.6x6 @ Binding	
09	0C84312A	Volume Knob	1	L06	0E00574A	Washer 4mm (Spring) (AUS, OTR)	
10	0J05478A	Knob Spring for Volume Knob	1				
11	0C84311A	Fader Knob	1				
12	CA81362A	Front Panel Ass'y	1				
13	0C84310A	Tone Knob	2				

7.2. Handle Ass'y (A01)

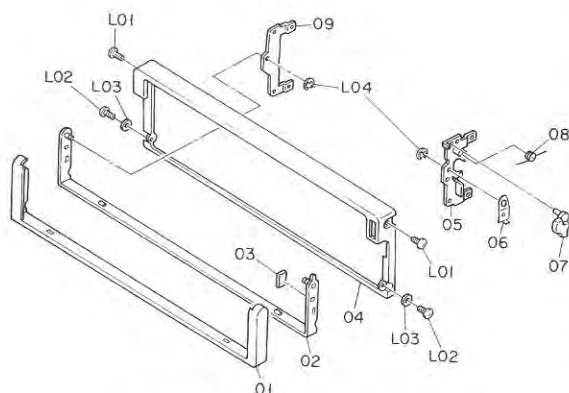


Fig. 7.2 TD-560, TD-560T Only

Schematic Ref. No.	Part No.	Description	Q'ty
7.2. Handle Ass'y (A01)			
A01	CA81051A	Handle Ass'y (TD-560, TD-560T)	1
01	OC83800A	Handle Cover	1
02	OC83793A	Handle	1
03	OC84576A	Cushion	1
04	OC83768A	Front Frame	1
05	CA81135A	Handle Bracket L Ass'y	1
06	OC83791A	Spring Plate	1
07	OC84546A	Handle Knob	1
08	OC83777A	Knob Spring	1
09	OC83788A	Handle Bracket R	1
L01	OE03072A	M2.6x6 @ Binding (Black Chromate)	
L02	OE00945A	M2.6x4 @ Binding (Black Chromate)	
L03	OC84553A	Washer	
L04	OC83778A	E-Ring 2mm	

7.3. Front Panel Ass'y (A02)

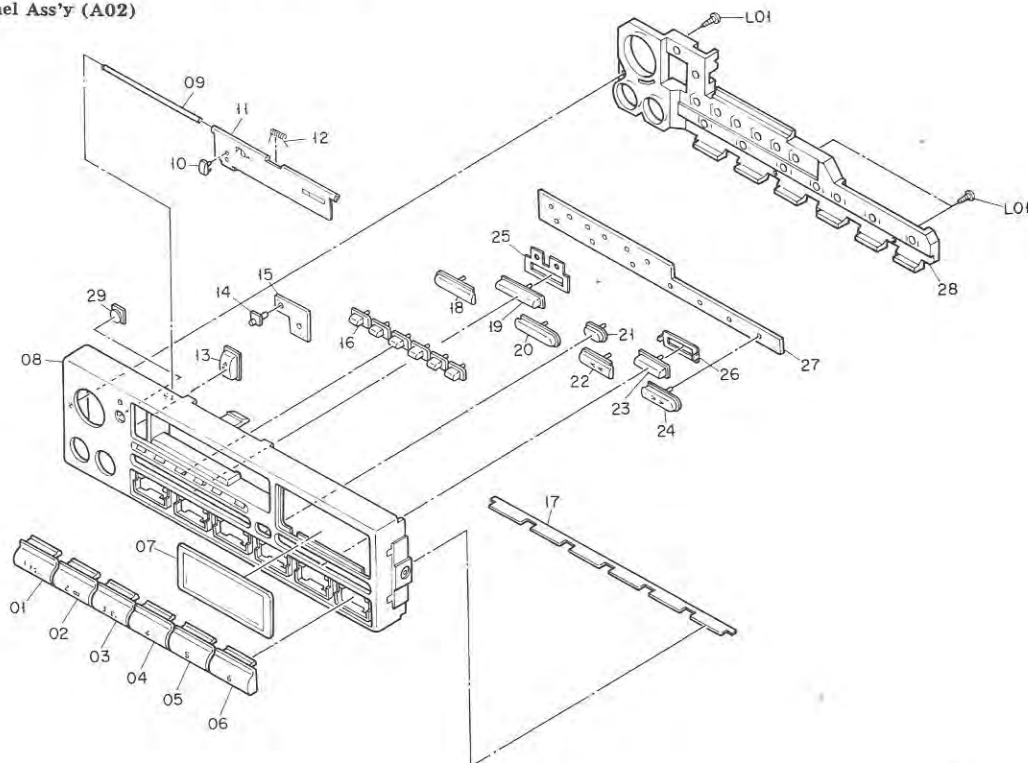


Fig. 7.3

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.3. Front Panel Ass'y (A02)				12	OC84317A	Door Spring	1
A02	CA81217A	Front Panel Ass'y (TD-560)	1	13	OC84309A	Eject Knob	1
	CA81428A	Front Panel Ass'y (TD-560T)	1	14	OC84314A	Reset Knob	1
	CA81362A	Front Panel Ass'y (RD-701)	1	15	OC84324A	Cushion B	1
				16	OC84313A	Push Knob	6
01	OC84303A	Preset Knob 1	1	17	OC83844A	Knob Spring	1
02	OC84304A	Preset Knob 2	1	18	OC84299A	Tape Button	1
03	OC84305A	Preset Knob 3	1	19	OC84300A	Band Button	1
04	OC84306A	Preset Knob 4	1	20	OC84298A	CD Button	1
05	OC84307A	Preset Knob 5	1	21	OC84297A	Memory Button	1
06	OC84308A	Preset Knob 6	1	22	OC84302A	Rew Button	1
07	OC84319A	Display Lens SS	1	23	OC84296A	Mode Button	1
08	OC84315A	Front Housing	1	24	OC84301A	FF Button	1
09	OC84295A	Door Shaft	1	25	OC84834A	Shutter A	1
10	OH05197A	Door Bumper	1	26	OC84835A	Shutter B	1
11	OC84321A	Cassette Slot Cover (TD-560)	1	27	OC84323A	Cushion A	1
	OC84486A	Cassette Slot Cover (TD-560T)	1	28	OC84318A	Lighting Lens	1
	OC84484A	Cassette Slot Cover (RD-701)	1	29	OC84651A	Sensor Lens	1
				L01	OE00793A	BT2x6 @ Pan	1

7.4. Chassis Ass'y (A03)
(1) TD-560, TD-560T

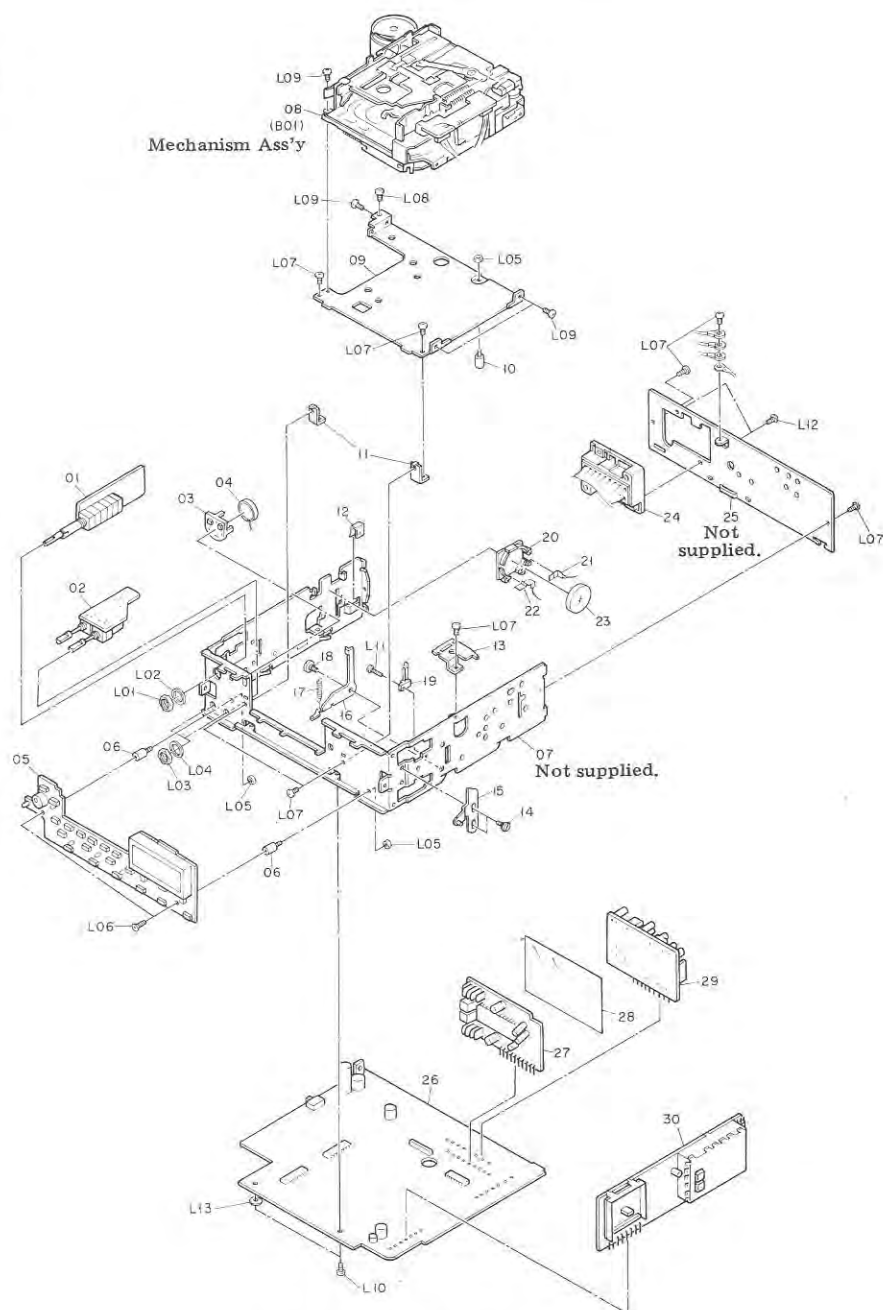


Fig. 7.4.1 TD-560, TD-560T

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.4. Chassis Ass'y (A03)				22	0C83797A	Battery Terminal +	1
A03	—	Chassis Ass'y (TD-560, TD-560T)	1	23	0B90428A	Lithium Battery 3V	1
				24	0B83759B	Pull-out Connector	1
				25	—*	Rear Bracket	1
				26	CA81299A	Main P.C.B. Ass'y (USA, CAN)	1
					CA81427A	Main P.C.B. Ass'y (THA)	1
				27	CA81295A	Dolby NR P.C.B. Ass'y	1
				28	0C84560A	Insulator	1
				29	CA81294A	AM Tuner P.C.B. Ass'y	1
				30	CA81293A	FM Tuner P.C.B. Ass'y	1
				L01	0E03575A	Nut Hex. M9	
				L02	0E03576A	Washer M9	
				L03	0E03377A	Nut Hex. M6	
				L04	0E03378A	Washer M6	
				L05	0E00718A	Nut Hex. M3	
				L06	0E03574A	M2.6x5 @ Countersunk	
				L07	0E03203A	ST2.6x5 @ Binding	
				L08	0E03219A	ST2.6x6 @ Binding	
				L09	0E00866A	M2.6x4 @ Binding	
				L10	0E03320A	ST2.6x5 @ Binding	
				L11	0E03559A	M1.6x4	
				L12	0E00896A	M3x6 @ Binding	
				L13	0E00912A	Washer 2.6x4.7x0.25 (Plastics)	
01	CA81296A	Volume P.C.B. Ass'y	1				
02	CA81297A	Tone Control P.C.B. Ass'y	1				
03	0C84652A	Buzzer Holder	1				
04	0B90404A	Buzzer PKM35-4A0	1				
05	CA81298A	Control Switch P.C.B. Ass'y	1				
06	0C84481A	P.C.B. Shaft	2				
07	—*	Main Bracket	1				
08	CA08947A	Mechanism Ass'y	1				
09	0C84479A	Mechanism Bracket	1				
10	0C84571A	Stud D	1				
11	0C84575A	Supporter	2				
12	0J05879A	IC Clip	1				
13	0C84649B	P.C.B. Holder	1				
14	0C83798A	Stud C	2				
15	0C83792A	Plate Lock	1				
16	0C83866B	Spring Lever	1				
17	0C83776A	Locker Spring	1				
18	0C83795A	Guide Screw	1				
19	0B70150A	Pull-out Switch	1				
20	0C83773A	Battery Holder	1				
21	0C83796A	Battery Terminal —	1				

*: Not supplied.

(2) RD-701

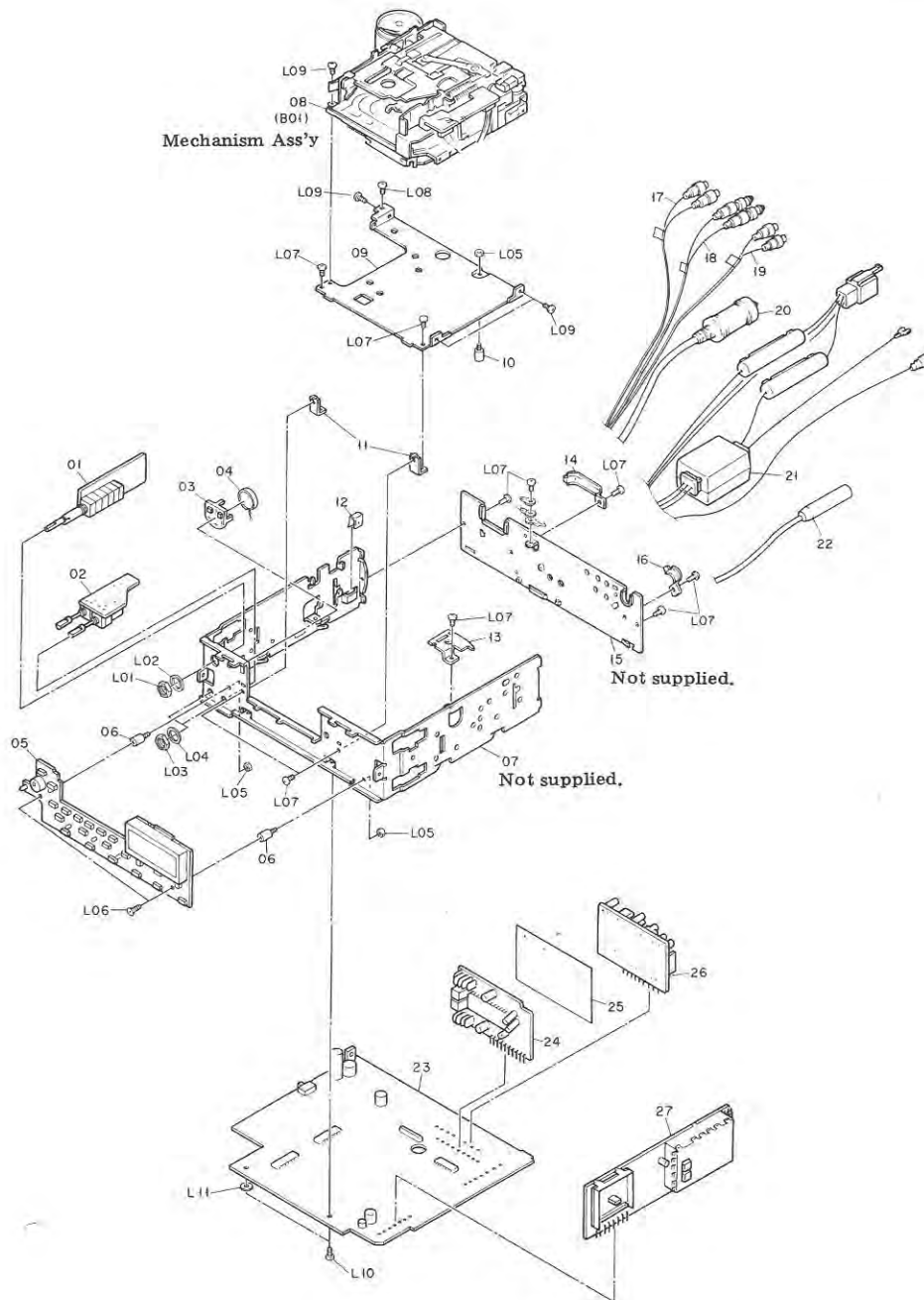


Fig. 7.4.2 RD-701

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.4. Chassis Ass'y (A03)				22	0B83762A	Antenna Cable	1
A03	—	Chassis Ass'y (RD-701)	1	23	CA81371A	Main P.C.B. Ass'y (AUS, OTR)	1
				24	CA81357A	Main P.C.B. Ass'y (JPN)	1
				25	CA81295A	Dolby NR P.C.B. Ass'y	1
				26	0C84560A	Insulator	1
				27	CA81294A	AM Tuner P.C.B. Ass'y	1
				L01	CA81293A	FM Tuner P.C.B. Ass'y (AUS, OTR)	1
				L02	CA81355A	FM Tuner P.C.B. Ass'y (JPN)	1
				L03	0E03575A	Nut Hex. M9	1
				L04	0E03576A	Washer M9	1
				L05	0E03377A	Nut Hex. M6	1
				L06	0E03378A	Washer M6	1
				L07	0E00718A	Nut Hex. M3	1
				L08	0E03574A	M2.6x5 @ Countersunk	1
				L09	0E03203A	ST2.6x5 @ Binding	1
				L10	0E03219A	ST2.6x6 @ Binding	1
				L11	0E00866A	M2.6x4 @ Binding	1
					0E03320A	ST2.6x5 @ Binding	1
					0E00912A	Washer 2.6x4.7x0.25 (Plastics)	1
01	CA81296A	Volume P.C.B. Ass'y	1				
02	CA81297A	Tone Control P.C.B. Ass'y	1				
03	0C84652A	Buzzer Holder	1				
04	0B90404A	Buzzer PKM35-4A0	1				
05	CA81359A	Control Switch P.C.B. Ass'y	1				
06	0C84481A	P.C.B. Shaft	2				
07	—	Main Bracket	1				
08	CA08947A	Mechanism Ass'y	1				
09	0C84479A	Mechanism Bracket	1				
10	0C84571A	Stud D	1				
11	0C84575A	Supporter	2				
12	0J05879A	IC Clip	1				
13	0C84649B	P.C.B. Holder	1				
14	0J05438A	Cord Clamp A	1				
15	—	Rear Bracket	1				
16	0J05439A	Cord Clamp B	1				
17	0B84150A	Pin Cable OUT (GRY)	1				
18	0B84149A	Pin Cable IN (GRY)	1				
19	0B84151A	Pin Cable OUT (BLK)	1				
20	0B83761A	13P DIN Cable Female	1				
21	CA81358A	Wire Ass'y	1				

*: Not supplied.

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
7.5. Mechanism Ass'y				85	OC84400A	Chip Actuator	1
B01	CA08947A	Mechanism Ass'y	1	86	OC84439A	Chip Spring	2
01	OC85084A	Cassette Case	1	87	CA81261A	Chip Arm F Ass'y	1
02	CA81256A	Cassette Case Plate Ass'y	1	88	CA81260A	Chip Arm R Ass'y	1
03	CA81265A	Cassette Guide Ass'y	1	89	OC84435A	Idler Spring	2
04	OC84415A	Guide Arm Roller B	1	90	OC84411A	Idler Gear A	2
05	OC84449A	Leaf Switch	1	91	OC84408A	Idler Gear B	1
06	OC84452A	Insulating Tube	2	92	OC84409A	Tension Pulley	1
07	OC85085A	Leaf Switch Wire	2	93	OC84398A	Pressure Roller Release Plate	1
08	OC84427A	Detector Spring	1	94	OC84410A	Reel Hub	2
09	CA81565A	Side Bracket Ass'y	1	95	OC84437A	Reel Hub Spring	2
10	OC81268A	Rubber Cushion	2	96	CA81271A	Reel Hub Ass'y	2
11	OC84412A	Detector	1	97	CA81561A	Sensor P.C.B. Ass'y	1
12	OC85092A	Vinyl Tube	1	98	CA81562A	Wire Ass'y	1
13	CA81257A	Reel Hub Plate Ass'y	1	L01	OE03045A	M2.6x3 @ Binding	
14	OC84433A	Pressure Roller Arm R Spring	1	L02	OE03527A	M1.7x6 @ Pan	
15	CA81270A	Pressure Roller Arm R Ass'y	1	L03	OE00117A	Washer 2x4.3x0.4	
16	OC84397A	Azimuth Plate	1	L04	OE03528A	M2x3 @ Binding	
17	GA02223A	P-4C Head Ass'y	1	L05	OC84454A	Azimuth Screw M1.7x9	
18	OC84432A	Pressure Roller Arm F Spring	1	L06	OE00821A	M2x3 @ Binding	
19	CA81269A	Pressure Roller Arm F Ass'y	1	L07	OE00866A	M2.6x4 @ Binding	
20	OC84440A	Azimuth Spring	1	L08	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	
21	OC84416A	Azimuth Arm	1	L09	OE03530A	M2x6 (2A)	
22	CA81262A	Catch Arm Ass'y	1	L10	OE00042A	E-Ring 1.5mm	
23	OC84413A	Catch Arm Roller B	1	L11	OE03579A	E-Ring 2x6.5	
24	OC84422A	Arm Spring	1	L12	OE00181A	E-Ring 3mm	
25	OC84391A	Timing Plate	1	L13	OE00222A	E-Ring 2mm	
26	OC84421A	Guide Shaft Roller	6	L14	OE00165A	E-Ring 1.2mm	
27	OC84424A	Loading Spring	1	L15	OC84464A	Cord	
28	OC84443A	Loading Spring Tube	1	L16	OE03585A	Washer 1.93x3.2x0.13 (Plastics, Black)	
29	OC84393A	Loading Plate	1	L17	OE03561A	Washer 2.1x4x0.13 (Plastics, Black)	
30	OC84392A	Eject Plate	1	L18	OC84456A	Thrust Plate (Plastics, Black)	
31	OC84423A	Chip Arm Spring	1	L19	OE03452A	Washer 1.6x3.2x0.25 (Plastics, Black)	
32	CA81252A	Sub Chassis Ass'y	1	L20	OE03274A	Washer 2.1x4x0.125 (Nylon)	
33	OC85088A	Deck P.C.B.	1	L21	OE03583A	Washer 1.6x5x0.25 (Plastics, Black)	
34	CA81560A	5P Connector Ass'y	1	L22	OE03581A	Washer 1.3x3x0.25 (Plastics, Black)	
35	OC84451A	Insu-Lock	2	L23	OE03584A	Washer 2.1x4x0.25 (Plastics, Black)	
36	OC84446A	Solenoid	1	L24	OE03586A	Washer 1.6x3.2x0.25 (Plastics, Black)	
37	OC84453A	Microswitch	1	L25	OE03580A	Washer 0.85x3.2x0.25 (Plastics, Black)	
38	CA81559A	4P Connector Ass'y	1	L26	OE03582A	Washer 1.6x3.2x5 (Plastics, Black)	
39	OC84445A	Slide Switch	1	L27	OE03187A	Washer FT20	
40	OC84394A	Switch Holder	1	7.6. Remote Control Unit			
41	OC84441A	Main Belt	1		CA81350A	Remote Control Unit	1
42	CA81278A	Flywheel F Ass'y	1	01	OC84526A	Top Cover	1
43	CA81279A	Flywheel R Ass'y	1	02	OC84320A	Lens	1
44	OC84395A	Flywheel Holder	1	03	OC84590A	Rubber Switch	1
45	OC84836A	Solenoid Bracket B	1	04	CA81351A	Remote Control P.C.B. Ass'y	1
46	OC85095A	Eject Solenoid	1	05	OC84675A	Battery Installation Seal	1
47	OC84838A	Solenoid Spring B	1	06	OC84527A	Bottom Cover	1
48	OC84837A	Head Base Release Plate B	1	07	OC84573A	Battery Terminal +	1
49	CA81280A	Motor Ass'y	1	08	OC84572A	Battery Terminal -	1
50	CA81253A	Head Base Ass'y	1	09	OC84574A	Common Terminal	1
51	OC84418A	Head Base Roller B	4	10	OC84528A	Battery Cover	1
52	CA81263A	Power Arm Ass'y	1	L01	OC84552A	Screw 2x9 (Tapping) (Black Chromate)	
53	OC84396A	Head Base Hook	1				
54	OC84434A	Head Base Spring	1				
55	OC84404A	Reverse Plate	1				
56	OC84401A	Brake Arm F	1				
57	OC84402A	Brake Arm R	1				
58	OC84428A	Brake Spring	1				
59	CA81264A	Lock Plate B Ass'y	1				
60	OC84429A	Lock Plate Spring B	1				
61	OC84417A	Gear B	2				
62	OC84407A	Gear A	1				
63	OC84430A	Head Base Return Spring A	1				
64	OC84419A	Power Plate Roller B	1				
65	OC84414A	Pallet Arm	1				
66	CA81259A	Chip Arm Ass'y	1				
67	CA81267A	Load Gear M Ass'y	1				
68	OC84406A	Power Gear B	1				
69	CA81254A	Power Plate Ass'y	1				
70	OC84426A	Power Plate Spring	1				
71	OC84442A	Power Plate Spring Tube	1				
72	CA81258A	Gear Plate Ass'y	1				
73	OC84403A	Reverse Lock Plate	1				
74	OC84425A	Reverse Spring	1				
75	CA81268A	Reverse Gear Ass'y	1				
76	CA81563A	Solenoid Sub Ass'y	1				
77	CA81272A	FF Gear Ass'y	1				
78	OC84436A	FF Arm Spring	1				
79	CA81266A	FF Arm Ass'y	1				
80	CA81251A	Main Chassis Ass'y	1				
81	OC84431A	Head Base Return Spring B	1				
82	OC84399A	L Crank	1				
83	OC84420A	L Crank Sleeve	1				
84	OC84438A	Actuator Spring	1				

7.5. Mechanism Ass'y (B01)

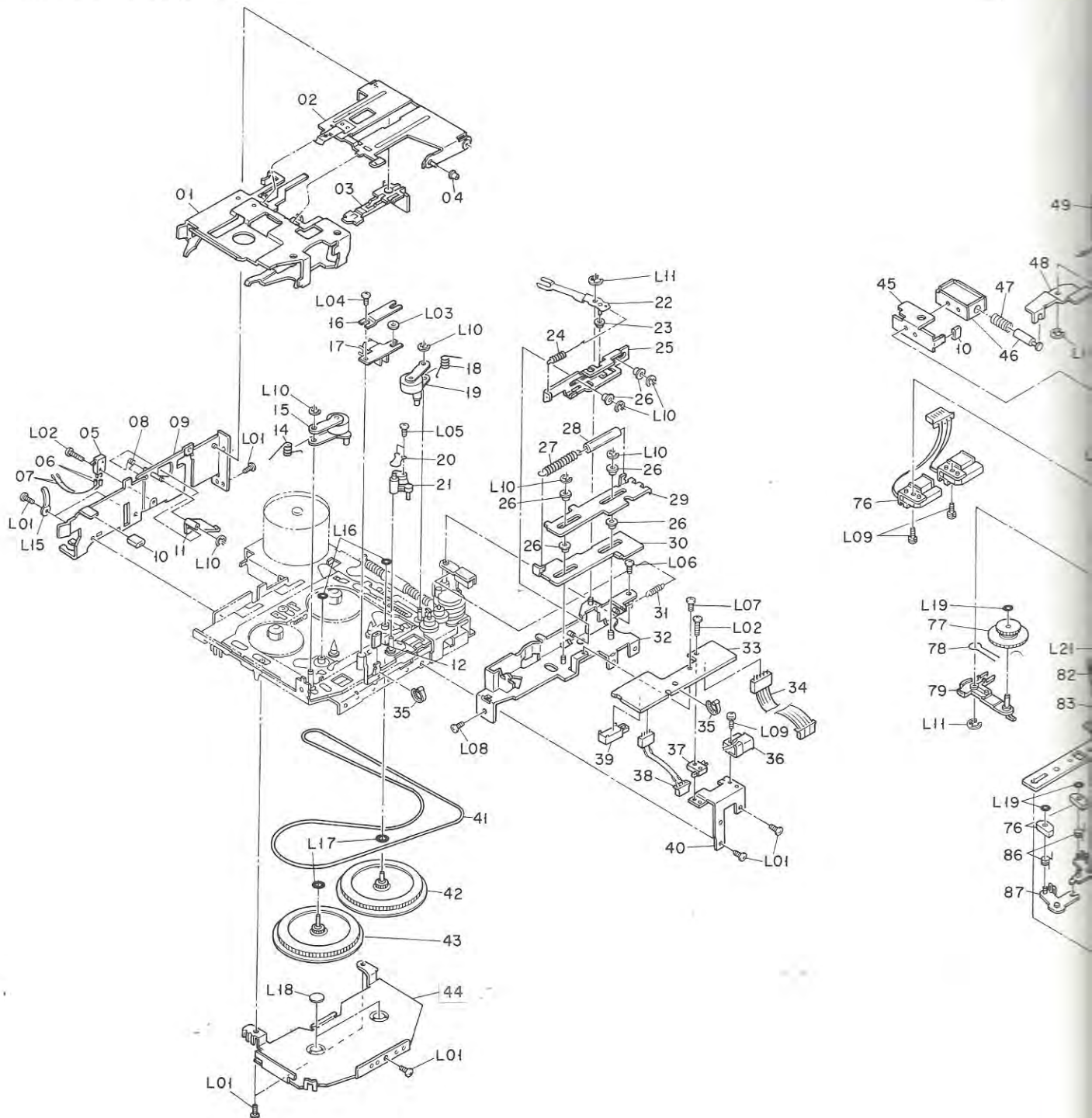


Fig. 7.5.1

7.6. Remote Control Unit

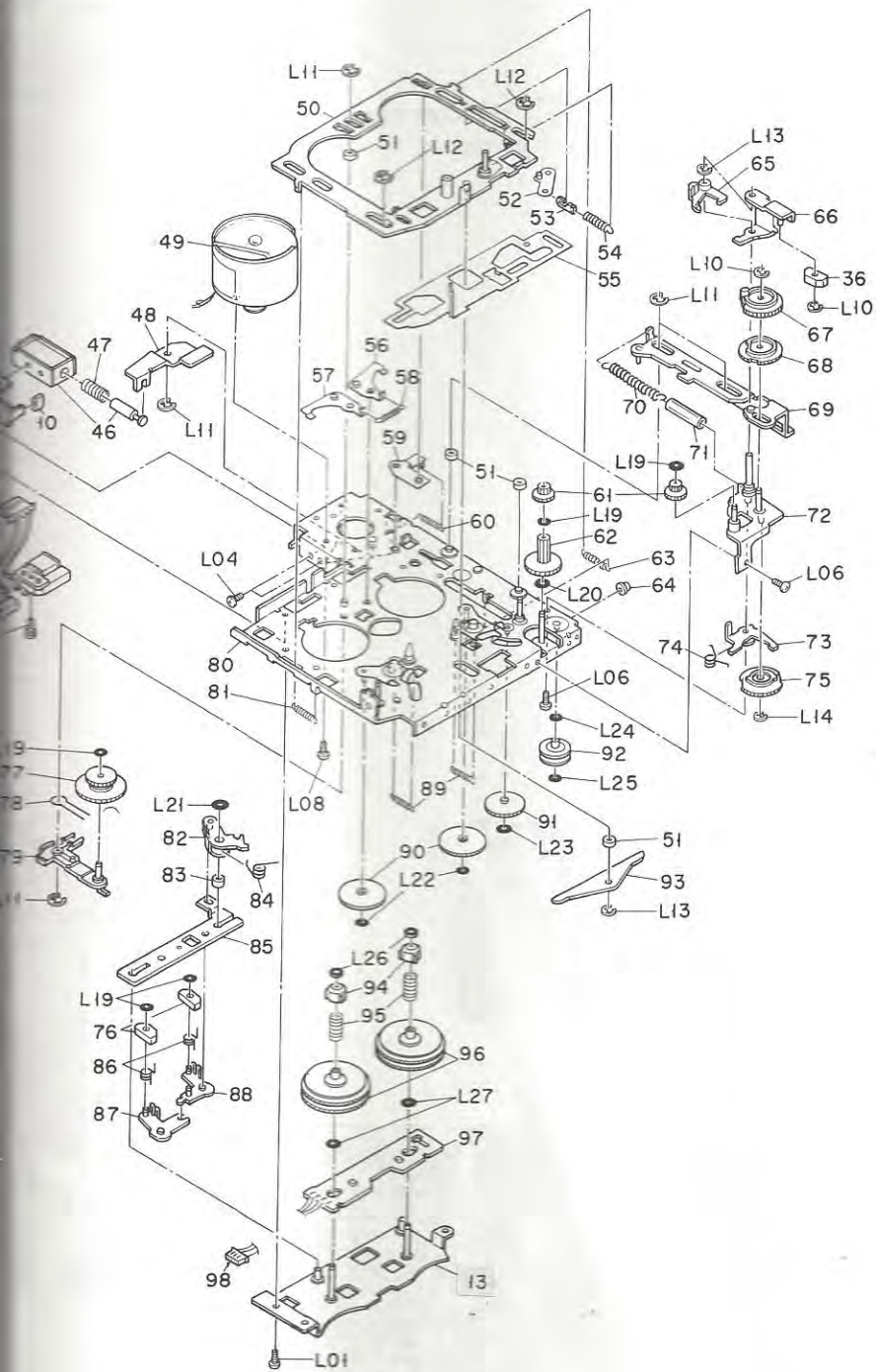


Fig. 7.5.2

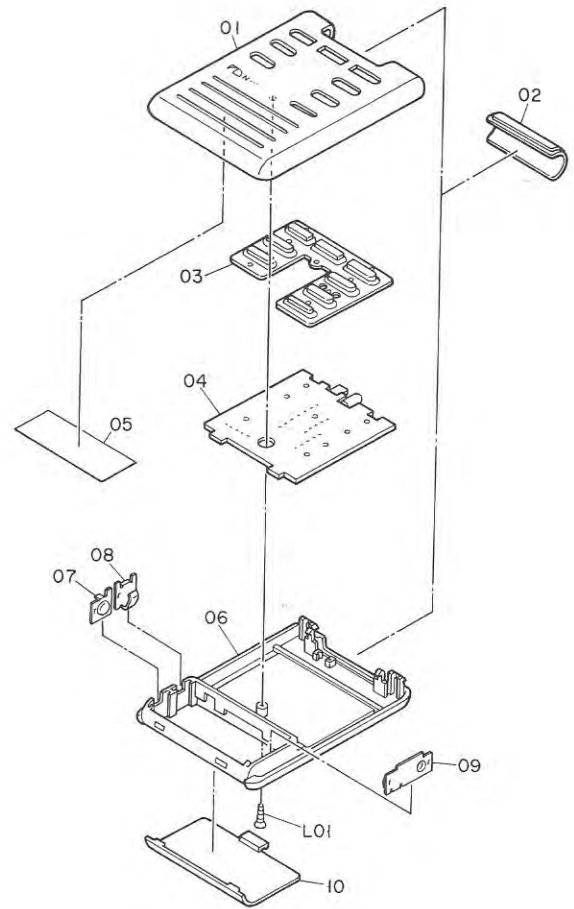


Fig. 7.6

8. MOUNTING DIAGRAMS AND PARTS LIST

Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.

2. Diode is 1SS133 unless otherwise specified.

3. 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, CML — Mylar Capacitor, CC — Ceramic Capacitor, CPP — PP Capacitor,

CMM — Metalized Mylar Capacitor, CSP — Polystyrene Capacitor, C — Mica Capacitor

CT — Tantalum Capacitor

8.1. Remote Control Unit

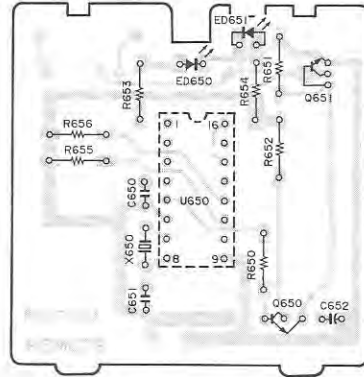


Fig. 8.1.1 Dip Side

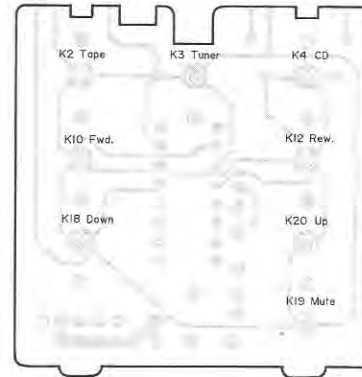
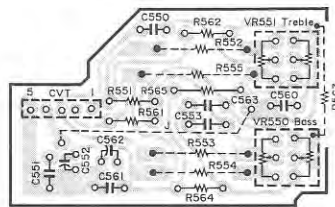


Fig. 8.1.2 Component Side

8.2. Tone Control P.C.B. Ass'y



Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
8.1. Remote P.C.B. Ass'y			8.4. Dolby NR P.C.B. Ass'y			8.5. AM Tuner P.C.B. Ass'y		
	CA81351A	Remote P.C.B. Ass'y		CA81295A	Dolby NR P.C.B. Ass'y		CA81294A	AM Tuner P.C.B. Ass'y
U650	OB60738A	Remote P.C.B.		0C82980A	Dolby NR P.C.B.	U201	0C84719A	AM Tuner P.C.B.
Q650	OB11773A	IC μ PD6120C-102	U901	OB11359A	IC CX20187	Q201	OB11443A	IC LA1135
Q651	OB10030A	TR 2SC1740S	ZD901	OB12670A	ZD 4.3V 4.3ESB1	Q202,203	OB06319A	TR 2SA608SP
ED650	OB10352A	TR 2SC2873	L901,902	0C82984A	Coil 23mH	Q204	OB06401A	TR 2SC536SP
ED651	OB12649A	LED SE1003	R902,903	OB09697A	RK 6.8K 1/6W J	Q205	OB06460A	TR 2SC930
X650	OB12689A	LED LN155	R904,905	OB22286A	RM 3.30K 1/4W F	Q206	OB06401A	TR 2SC536SP
R650	OB92001A	X'tal 455KHz	R906,907	OB22301A	RM 4.32K 1/4W F	VD201,202	OB10233A	FET 2SK163 (M)
R651	OB09685A	RK 2.2K 1/6W J	R908	OB25387A	RM 100K 1/4W F	VD203	0C82954A	Varicap KV1235
R652	OB09651A	RK 82 1/6W J	R909,910	OB09669A	RK 470 1/6W J	D202	0C82954A	Varicap KV1235
R653	OB09605A	RK 1 1/6W J	R911,912	OB09673A	RK 680 1/6W J	CF201	OB06181A	SiD 1SS53
R654	OB09607A	RK 1.2 1/6W J	R914	OB09629A	RK 10 1/6W J		OB41898A	Ceramic Filter
R655,656	OB09733A	RK 220K 1/6W J	R920	OB09717A	RK 47K 1/6W J			BFU450C4N
C650,651	OB09282A	CC 100P 50V K	R921	OB09725A	RK 100K 1/6W J	CF202	0C83013A	Ceramic Filter 450
C652	OB40663A	CE 47 μ 6.3V	R923	OB09701A	RK 10K 1/6W J	L201	0C84593A	Coil 796K
8.2. Tone Control P.C.B. Ass'y			C904,905	OB40050A	CE 220 μ 6.3V	L202	0C84595A	Coil 252K
	CA81297A	Tone Control P.C.B. Ass'y	C906,907	OB40477A	CT 0.15 μ 35V	L203	0C84591A	Coil 796K
VR550,551	OB60735A	Tone Control P.C.B.	C908,909	OB40023A	CE 0.22 μ 50V	L204	0C84592A	Coil 796K
R551	OC83045A	Volume 50K	C910,911	OB40025A	CE 0.47 μ 50V	L205	0C83012A	Coil 56 μ H J
R552	OB09695A	RK 5.6K 1/6W J	C912	OB40064A	CE 220 μ 10V	L206	0C83021A	Coil 7MC-A7985
R553	OB09687A	RK 2.7K 1/6W J	C913,914	OB01609A	CML 0.01 μ 50V K	L207	0C84594A	Coil 450K
R554	OB09705A	RK 15K 1/6W J	C915,916	OB09600A	CPP 6800P 100V G	VR201	OB32163A	Semi VR 47K
R555	OB09695A	RK 5.6K 1/6W J	C917,918	OB05586A	CML 0.068 μ 50V K	R201	OB09725A	RK 100K 1/6W J
R561	OB09687A	RK 2.7K 1/6W J	C919,920	OB05555A	CML 0.015 μ 50V K	R202	OB09677A	RK 1K 1/6W J
R562	OB09695A	RK 5.6K 1/6W J	C921,922	OB09191A	CPP 4700P 100V G	R203,204	OB09701A	RK 10K 1/6W J
R563	OB09705A	RK 15K 1/6W J	C923,924	OB05811A	CML 0.047 μ 50V K	R205	OB09651A	RK 82 1/6W J
R564	OB09695A	RK 5.6K 1/6W J	C925,926	OB09323A	CPP 560P 100V J	R206	OB09709A	RK 22K 1/6W J
R565	OB09687A	RK 2.7K 1/6W J	C927,928	OB01914A	CML 3300P 50V J	R207	OB09681A	RK 1.5K 1/6W J
C550	OB01802A	CML 2200P 50V J	C929,930	OB40266A	CE 0.22 μ 50V	R209	OB09703A	RK 12K 1/6W J
C551	OB09302A	C 100P 50V J	C932	OB40019A	CE 4.7 μ 35V	R213	OB09701A	RK 10K 1/6W J
C552	OB40629A	CE 10 μ 16V (LN)	C933	OB40009A	CE 10 μ 16V	R214	OB09725A	RK 100K 1/6W J
C553	OB41370A	CML 0.039 μ 63V J	C934	OB40177A	CE 10 μ 50V	R215	OB09749A	RK 1M 1/6W J
C560	OB01802A	CML 2200P 50V J	TP901,902	0C82981A	Test Pin	R216	OB09651A	RK 82 1/6W J
C561	OB09302A	C 100P 50V J				R217	OB09725A	RK 100K 1/6W J
C562	OB40629A	CE 10 μ 16V (LN)				R218	OB09749A	RK 1M 1/6W J
C563	OB41370A	CML 0.039 μ 63V J				R219	OB09685A	RK 2.2K 1/6W J
	OB83769A	5P Connector (1)				R220	OB09705A	RK 15K 1/6W J
8.3. Volume P.C.B. Ass'y						VC201,202	0C83007A	C Trimmer 10P
	CA81296A	Volume P.C.B. Ass'y				C201	OB41023A	CC 0.022 μ 25V M
U500	OB60734A	Volume P.C.B.				C202	OB4540A	CC 15P J
Q500	OB06146A	IC NJM4558DD				C203	0C83260A	CC 470P
Q510	OB10329A	TR DTC124TF				C204	OB41023A	CC 0.022 μ 25V M
D500	OB10329A	TR DTC124TF				C205	OB40014A	CE 4.7 μ 25V
D510	OB12249A	SiD 1SS133				C206	OB40013A	CE 3.3 μ 25V
VR500	OB12249A	SiD 1SS133				C207	OB40025A	CE 0.47 μ 50V
R500	OC84586B	Volume & Switch				C208	OB41019A	CC 0.01 μ 25V M
R501	OB09701A	RK 10K 1/6W J				C209	OB05582A	CML 0.022 μ 50V J
R502	OB09749A	RK 1M 1/6W J				C210	OB05781A	CT 0.1 μ 35V
R503	OB09677A	RK 1K 1/6W J				C212,213	OB41023A	CC 0.022 μ 25V M
R504	OB09685A	RK 2.2K 1/6W J				C214	OB09288A	CC 1000P 50V K
R507,508	OB09659A	RK 180 1/6W J				C215	OB40010A	CE 22 μ 16V
R513	OB09679A	RK 1.2K 1/6W J				C216,217	OB41023A	CC 0.022 μ 25V M
R514	OB09685A	RK 2.2K 1/6W J				C218	OB40010A	CE 22 μ 16V
R517,518	OB09659A	RK 180 1/6W J				C219	OB40013A	CE 3.3 μ 25V
R519,520	OB09679A	RK 1.2K 1/6W J				C220	OB41027A	CC 0.047 μ 25V M
	OB09749A	RK 1M 1/6W J				C221	OB41023A	CC 0.022 μ 25V M
						C222	OB40012A	CE 47 μ 16V
						C223	OB41023A	CC 0.022 μ 25V M
						C224,225	OB09288A	CC 1000P 50V K
						C226	OB41019A	CC 0.01 μ 25V
						C227	OB40009A	CE 10 μ 16V

8.6. FM Tuner P.C.B. Ass'y

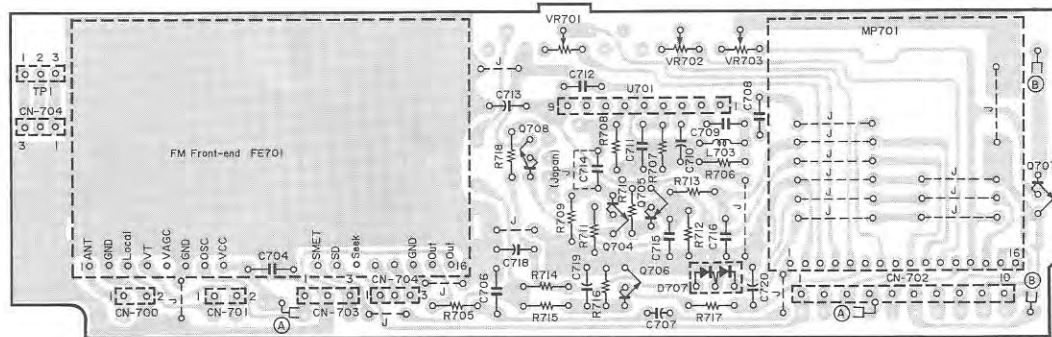


Fig. 8.6

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

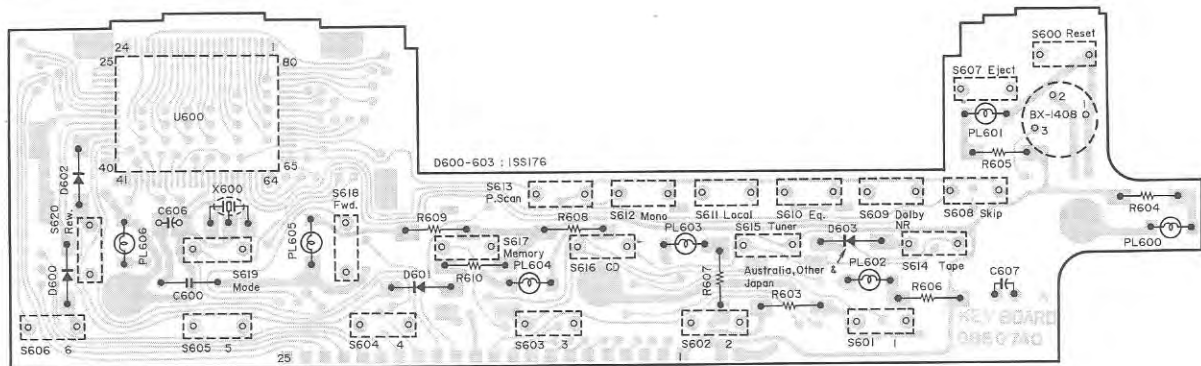


Fig. 8.7.1 Component Side

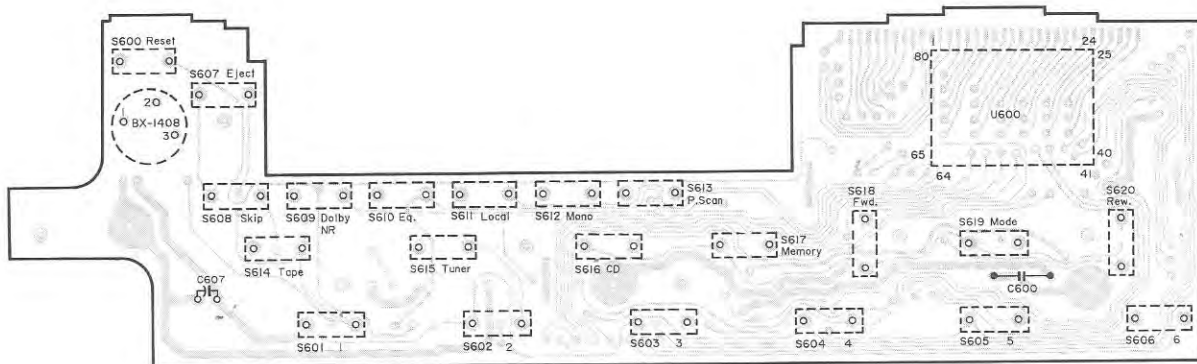


Fig. 8.7.2 Dip Side

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
8.6. FM Tuner P.C.B. Ass'y			8.7. Control Switch P.C.B. Ass'y		
	CA81293A	FM Tuner P.C.B. Ass'y (USA, CAN, THA, AUS, OTR)		CA81298A	Control Switch P.C.B. Ass'y (USA, CAN, THA)
	CA81355A	FM Tuner P.C.B. Ass'y (JPN)		CA81359A	Control Switch P.C.B. Ass'y (AUS, OTR, JPN)
	OB60737A	FM Tuner P.C.B.			
U701	OB11697A	IC LA1060		OB60740A	Control Switch P.C.B.
Q704	OB10033A	TR 2SC1740S (S)	U600	OB11707A	IC μ PD75308GF-320-3B9
Q705	OB10029A	TR 2SA933S (S)			(USA, CAN, THA)
Q706	OB10033A	TR 2SC1740S (S)		OB11738A	IC μ PD75308GF-372-3B9
Q707,708	OB10062A	TR DTC144ES			(AUS, OTR, JPN)
D707	OB12691A	SiD MC932			SiD 1SS176
L703	OB51311A	Micro Coil 100 μ			SiD 1SS176
VR701	OB32162A	Semi VR 10K	D600,601	OB06398A	SiD 1SS176
VR702	OB32163A	Semi VR 47K	D602	OB06398A	SiD 1SS176
VR703	OB32162A	Semi VR 10K	D603	OB06398A	SiD 1SS176
R705,706	OB09701A	RK 10K 1/6W J			(AUS, OTR, JPN)
R707	OB09725A	RK 100K 1/6W J	X600	OB92034A	Crystal 4.19MHz
R708,709	OB09737A	RK 330K 1/6W J	R603	OB09645A	RK 47 1/6W J
R710	OB09725A	RK 100K 1/6W J	R604,605	OB20459A	RK 150 1/6W J
R711	OB09701A	RK 10K 1/6W J	R606	OB20459A	RK 150 1/6W J
R712	OB09725A	RK 100K 1/6W J	R607	OB20475A	RK 270 1/6W J
R713,714	OB09701A	RK 10K 1/6W J	R608,609	OB20459A	RK 150 1/6W J
R715	OB09725A	RK 100K 1/6W J	R610	OB20459A	RK 150 1/6W J
R716	OB09710A	RK 24K 1/6W J	C600	OB41713A	CC 0.022 μ 50V F
R717	OB09693A	RK 4.7K 1/6W J	C606	OB40173A	CE 1 μ 50V
R718	OB09679A	RK 1.2K 1/6W J	C607	OB40663A	CE 47 μ 6.3V
C704	OB41687A	CC 1000P 50V	PL600,601	OB90132A	Lamp 40mA 14V
C706	OB41347A	CC 120P 100V	PL602,603	OB90132A	Lamp 40mA 14V
C707	OB40014A	CE 4.7 μ 25V	PL604,605	OB90132A	Lamp 40mA 14V
C708,709	OB09290A	CC 0.01 μ 50V Z	PL606	OB90132A	Lamp 40mA 14V
C710	OB40009A	CE 10 μ 16V	S600,601	OC83051A	Tact Switch
C711	OB41690A	CC 3300P 50V K	S602,603	OC83051A	Tact Switch
C712	OB09290A	CC 0.01 μ 50V Z	S604,605	OC83051A	Tact Switch
C713	OB40043A	CE 100 μ 10V	S606,607	OC83051A	Tact Switch
C714	OB09290A	CC 0.01 μ 50V Z	S608,609	OC83051A	Tact Switch
		(USA, CAN, THA, AUS, OTR)	S610,611	OC83051A	Tact Switch
C715,716	OB41025A	CC 3300P 25V K	S612,613	OC83051A	Tact Switch
C718	OB40568A	CE 470 μ 6.3V	S614,615	OC83051A	Tact Switch
C719	OB40026A	CE 1.0 μ 50V	S616,617	OC83051A	Tact Switch
C720	OB40006A	CE 22 μ 10V	S618,619	OC83051A	Tact Switch
FE701	BA07687A	FM Front-end (USA, CAN, THA, AUS, OTR)	S620	OC83051A	Tact Switch
				OB19015A	Remote Control Receiver BX-1408 (1)
	BA07673A	FM Front-end (JPN)			
MP701	BA07688A	FM MPX		OC84525A	LCD Cover (1)
	OJ06009A	Insulator MPX (1)		OC84547A	LCD Display (1)
	OB81037A	3P-S Post WHT (1)		OC84566A	Reflector Lens (1)
	OB83767A	3P Connector (1)		OC84567A	Transparent Lens (1)
				OC84589B	Elastic Rubber (1)
				OC84840B	RCR Spacer (1)

Fig. 8.8.1 2nd Version

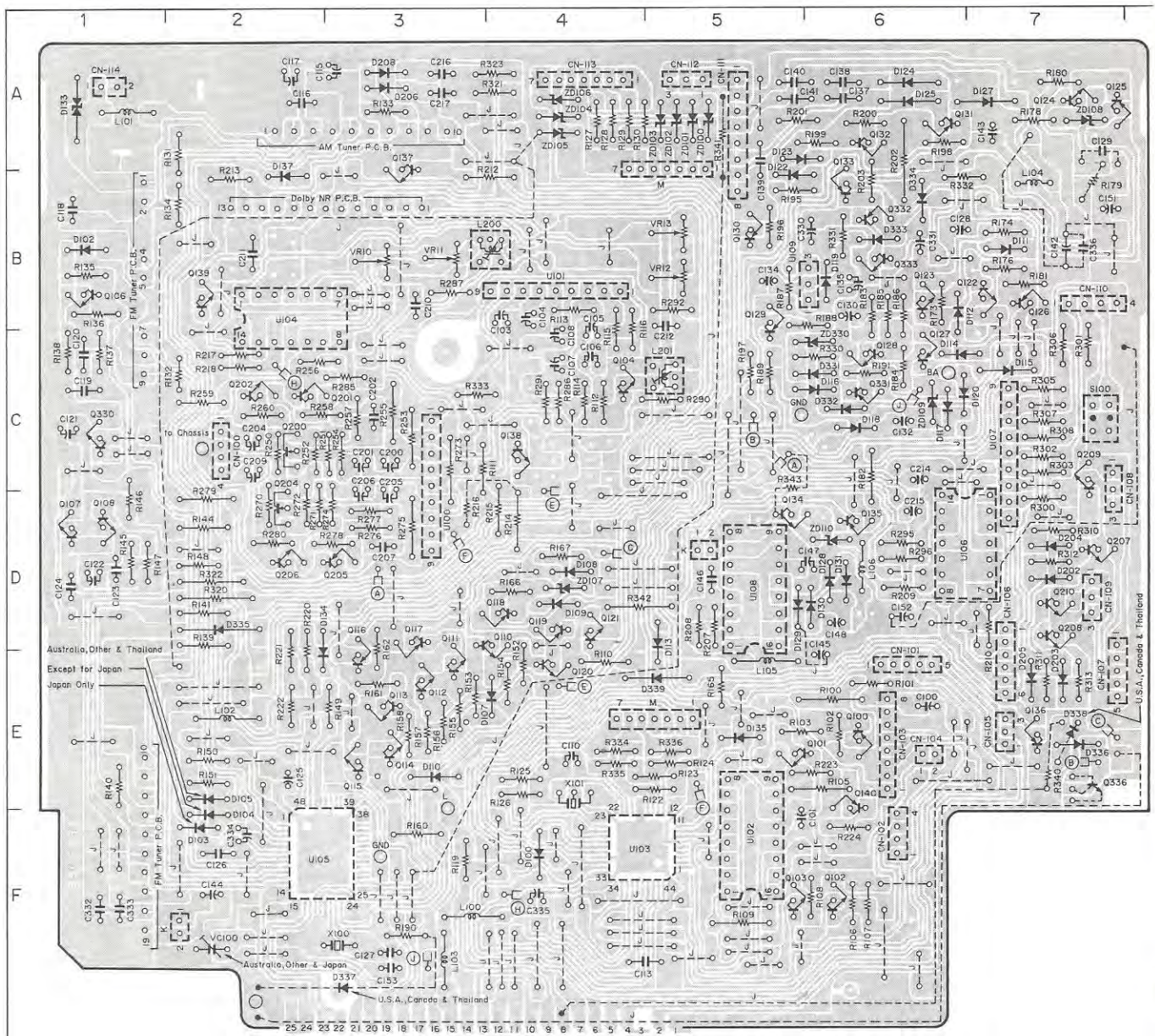


Fig. 8.8.2 1st Version

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
U100	D-3	D114	C-6
U101	B-4	D115	C-7
U102	F-5	D116	C-6
U103	F-4	D117	C-6
U104	B-2	D118	C-6
U105	F-2	D119	B-6
U106	D-6	D120	C-6
U107	C-7	D122	B-5
U108	D-5	D123	A-5
Q109	B-5	D124	A-6
Q100	E-6	D125	A-6
Q101	E-5	D127	A-7
Q102	F-6	D128	D-6
Q103	F-5	D129	D-5
Q104	C-4	D130	D-5
Q106	B-1	D131	D-6
Q107	D-1	D133	A-1
Q108	D-1	D134	D-2
Q110	D-4	D135	E-5
Q111	E-3	D137	B-2
Q112	E-3	D202	D-7
Q113	E-3	D203	E-7
Q114	E-3	D204	D-7
Q115	E-3	D205	E-7
Q116	D-3	D206	A-3
Q117	D-3	D208	A-3
Q118	D-4	D331	C-6
Q119	D-4	D332	C-6
Q120	E-4	D333	B-6
Q121	D-4	D334	B-6
Q122	B-7	D335	D-2
Q123	B-6	D336	E-7
Q124	A-7	D337	F-3
Q125	A-7	D338	E-7
Q126	B-7	D339	E-5
Q127	C-6		
Q128	C-6		
Q129	B-5		
Q130	B-5		
Q131	A-6		
Q132	A-6		
Q133	B-6		
Q134	D-5		
Q135	D-6		
Q136	E-7		
Q137	A-3		
Q138	C-4		
Q139	B-2		
Q140	E-6		
Q200	C-2		
Q201	C-2		
Q202	C-2		
Q204	D-2		
Q205	D-3		
Q206	D-2		
Q207	D-7		
Q208	D-7		
Q209	C-7		
Q210	D-7		
Q330	C-1		
Q331	C-6		
Q332	B-6		
Q333	B-6		
Q336	E-7		
ZD100	A-5		
ZD101	A-5		
ZD102	A-5		
ZD103	A-5		
ZD104	A-4		
ZD105	A-4		
ZD106	A-4		
ZD107	D-4		
ZD108	A-7		
ZD109	C-6		
ZD110	D-6		
ZD330	C-6		
D100	F-4		
D102	B-1		
D103	F-2		
D104	F-2		
D105	E-2		
D107	E-3		
D108	D-4		
D109	D-4		
D110	E-3		
D111	B-7		
D112	B-6		
D113	D-5		

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.
8.8. Main P.C.B. Ass'y			D103	OB12249A	SiD 1SS133 (JPN)	R147,148
	CA81299A	Main P.C.B. Ass'y (USA, CAN)	D104	OB12249A	SiD 1SS133 (USA, CAN, THA, AUS, OTR)	R149
	CA81427A	Main P.C.B. Ass'y (THA)	D105	OB12249A	SiD 1SS133 (THA, AUS, OTR)	R150
	CA81371A	Main P.C.B. Ass'y (AUS, OTR)	D107	OB12249A	SiD 1SS133	R151
	CA81357A	Main P.C.B. Ass'y (JPN)	D108,109	OB12249A	SiD 1SS133	R152
			D110,111	OB12249A	SiD 1SS133	R153,154
			D112,113	OB12249A	SiD 1SS133	R155
			D114,115	OB12249A	SiD 1SS133	R156,157
			D116,117	OB12249A	SiD 1SS133	R158
			D118,119	OB12249A	SiD 1SS133	R160
			D120	OB12249A	SiD 1SS133	R161,162
			D122,123	OB12249A	SiD 1SS133	R165
			D124,125	OB12362A	SiD S5566B	R166
			D127	OB12362A	SiD S5566B	R167
			D128,129	OB12249A	SiD 1SS133	R173
			D130,131	OB12249A	SiD 1SS133	R174
			D133	OB90131A	Surge Protector	R176
					DSP-301N	R177
			D134,135	OB12249A	SiD 1SS133	R178
			D137	OB12249A	SiD 1SS133	R179
			D202	OB12249A	SiD 1SS133	R181
			D203	OB12249A	SiD 1SS133	R182
			D204	OB12249A	SiD 1SS133	R183
			D205	OB12249A	SiD 1SS133	R184,185
			D206	OB12249A	SiD 1SS133	R186
			D208	OB12249A	SiD 1SS133	R187
			D331,332	OB12249A	SiD 1SS133	R188
			D333,334	OB12249A	SiD 1SS133	R189
			D335	OB12362A	SiD S5566B	R190
			D336	OB12249A	SiD 1SS133	R191
			D337	OB12249A	SiD 1SS133	R195,196
					(USA, CAN, THA)	R197,198
			D338	OB12249A	SiD 1SS133	R199,200
			D339	OB12249A	SiD 1SS133	R201
			X100	OB92005A	Xtal 4.5MHz	R202
					TC-3.5D	R203
			X101	OB92034A	Resonator 4.19MHz	R207
					CST4.19M	R208,209
			L100	OB51135A	Micro Coil 560μH	R210
			L101	OB51110A	Micro Coil 4.7μH	R211
			L102,103	OB51135A	Micro Coil 560μH	R212
			L104	OB51250A	Choke Coil 1mH	R213
			L105,106	OB51135A	Micro Coil 560μH	R214,215
			L200	OB51222A	Coil 5mH	R216,217
			L201	OB51222A	Coil 5mH	R218
			VR10	OB32062A	Semi VR 22K	R219
			VR11	OB32062A	Semi VR 22K	R220
			VR12	OB32062A	Semi VR 22K	R221,222
			VR13	OB32062A	Semi VR 22K	R223
			R100	OB24115A	RF 10 1/2W J	R224
			R101	OB09681A	RK 1.5K 1/6W J	R225
			R102,103	OB09685A	RK 2.2K 1/6W J	R226
			R105	OB09689A	RK 3.3K 1/6W J	R227
			R106,107	OB09725A	RK 100K 1/6W J	R228
			R108	OB09725A	RK 100K 1/6W J	R229
			R109	OB05614A	RK 1.8K 1/4W J	R230
			R110,111	OB09709A	RK 22K 1/6W J	R231
			R112	OB09733A	RK 220K 1/6W J	R232
			R113	OB09701A	RK 10K 1/6W J	R233
			R114	OB09733A	RK 220K 1/6W J	R234
			R115	OB09709A	RK 22K 1/6W J	R235
			R116	OB09723A	RK 82K 1/6W J	R236
			R119	OB09725A	RK 100K 1/6W J	R237
			R122,123	OB09701A	RK 10K 1/6W J	R238
			R124	OB09701A	RK 10K 1/6W J	R239
			R125	OB09749A	RK 1M 1/6W J	R240
			R126	OB09725A	RK 100K 1/6W J	R241
			R127,128	OB09653A	RK 100 1/6W J	R242
			R129	OB09653A	RK 100 1/6W J	R243
			R130	OB09677A	RK 1K 1/6W J	R244
			R131,132	OB09701A	RK 10K 1/6W J	R245
			R133	OB09719A	RK 56K 1/6W J	R246
			R134	OB09701A	RK 10K 1/6W J	R247
			R135	OB09709A	RK 22K 1/6W J	R248
			R136	OB09725A	RK 100K 1/6W J	R249
			R137	OB09677A	RK 1K 1/6W J	R250
			R138	OB09647A	RK 56 1/6W J	R251
			R139	OB09707A	RK 18K 1/6W J	R252
			R140	OB09693A	RK 4.7K 1/6W J	R253
			R141	OB09717A	RK 47K 1/6W J	R254
			R144	OB09653A	RK 100 1/6W J	R255
			R145	OB09677A	RK 1K 1/6W J	R256
			R146	OB09693A	RK 4.7K 1/6W J	R257

Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
OB09685A	RK 2.2K 1/6W J	R312	OB09693A	RK 4.7K 1/6W J	C335	OB40173A	CE 1μ 50V
OB09717A	RK 47K 1/6W J	R313	OB09693A	RK 4.7K 1/6W J	C336	OB41571A	CML 1000P 50V J
OB09629A	RK 10 1/6W J	R320	OB09713A	RK 33K 1/6W J	S100	OB70153A	Slide Switch
OB09701A	RK 10K 1/6W J			(USA, CAN)	CN100	OB81461A	4P-T Post
OB09717A	RK 47K 1/6W J		OB09709A	RK 22K 1/6W J	CN101	OB81462A	5P-T Post
OB09701A	RK 10K 1/6W J			(THA, AUS, OTR, JPN)	CN102	OB81461A	4P-T Post
OB09717A	RK 47K 1/6W J				CN103	OB81465A	8P-T Post
OB09725A	RK 100K 1/6W J	R321	OB09699A	RK 8.2K 1/6W J	CN104	OB81459A	2P-T Post
OB09709A	RK 22K 1/6W J	R322	OB09713A	RK 33K 1/6W J	CN105	OB83767A	3P Connector
OB09717A	RK 47K 1/6W J			(USA, CAN)	CN106	OB83770A	6P Connector
OB09685A	RK 2.2K 1/6W J		OB09709A	RK 22K 1/6W J	CN107	OB83768A	5P Connector
OB09677A	RK 1K 1/6W J			(THA, AUS, OTR, JPN)	K-K	OB83781B	2P Connector
OB09717A	RK 47K 1/6W J				M-M	OB83771A	7P Connector
OB09717A	RK 47K 1/6W J	R323	OB09699A	RK 8.2K 1/6W J		OB80263A	GND Wire
OB09717A	RK 47K 1/6W J	R330	OB09693A	RK 4.7K 1/6W J			
OB09709A	RK 22K 1/6W J	R331	OB09653A	RK 100 1/6W J			
OB09709A	RK 22K 1/6W J	R332	OB09689A	RK 3.3K 1/6W J			
OB09677A	RK 1K 1/6W J	R333	OB09719A	RK 56K 1/6W J			
OB09701A	RK 10K 1/6W J	R334,335	OB09653A	RK 100 1/6W J			
OB09701A	RK 10K 1/6W J	R336	OB09653A	RK 100 1/6W J			
OB09709A	RK 22K 1/6W J	R340	OB09701A	RK 10K 1/6W J			
OB09749A	RK 1M 1/6W J	R341	OB09677A	RK 1K 1/6W J			
OB09677A	RK 1K 1/6W J	R342,343	OB09701A	RK 10K 1/6W J			
OB09709A	RK 22K 1/6W J	VC100	OB42004A	C Trimmer 30P			
OB09709A	RK 22K 1/6W J			(AUS, OTR, JPN)			
OB09701A	RK 10K 1/6W J	C100	OB40079A	CE 220μ 16V			
OB09725A	RK 100K 1/6W J	C101	OB40158A	CE 100μ 6.3V			
OB09727A	RK 120K 1/6W J	C103	OB40163A	CE 22μ 16V			
OB09725A	RK 100K 1/6W J	C104	OB40162A	CE 10μ 16V			
OB09691A	RK 3.9K 1/6W J	C105	OB40173A	CE 1.0μ 50V			
OB09685A	RK 2.2K 1/6W J	C106	OB40266A	CE 0.22μ 50V			
OB09685A	RK 2.2K 1/6W J	C107	OB40266A	CE 0.22μ 50V			
OB09685A	RK 2.2K 1/6W J	C108	OB40170A	CE 4.7μ 35V			
OB09693A	RK 4.7K 1/6W J	C110	OB40266A	CE 0.22μ 50V			
OB24235A	RF 1.0 1W	C113	OB41019A	CC 0.01μ 25V M			
OB09709A	RK 22K 1/6W J	C115	OB40165A	CE 47μ 16V			
OB09705A	RK 15K 1/6W J	C116	OB41524A	CML 0.01μ 50V J			
OB09725A	RK 100K 1/6W J	C117	OB40163A	CE 22μ 16V			
OB09717A	RK 47K 1/6W J	C118	OB41524A	CML 0.01μ 50V J			
OB09701A	RK 10K 1/6W J	C119,120	OB41019A	CC 0.01μ 25V M			
OB09725A	RK 100K 1/6W J	C121	OB40165A	CE 47μ 16V			
OB09725A	RK 100K 1/6W J	C122	OB40169A	CE 3.3μ 35V			
OB09725A	RK 100K 1/6W J	C123	OB41524A	CML 0.01μ 50V J			
OB09693A	RK 4.7K 1/6W J	C124	OB41517A	CML 1000P 50V J			
OB09735A	RK 270K 1/6W J	C125	OB40163A	CE 22μ 16V			
OB09717A	RK 47K 1/6W J	C126	OB41019A	CC 0.01μ 25V M			
OB24036A	RF 220 1/2W J	C127	OB09279A	CC 22P 50V J			
OB09701A	RK 10K 1/6W J	C128	OB40164A	CE 33μ 16V			
OB09725A	RK 100K 1/6W J	C129	OB41304A	CML 0.33μ 50V J			
OB09681A	RK 1.5K 1/6W J	C130	OB40163A	CE 22μ 16V			
OB22147A	RM 200 1/4W F	C132	OB40158A	CE 100μ 6.3V			
OB22559A	RM 2.2M 1/4W F	C134,135	OB40266A	CE 0.22μ 50V			
OB09681A	RK 1.5K 1/6W J	C137,138	OB41019A	CC 0.01μ 25V M			
OB22559A	RM 2.2M 1/4W F	C139	OB41019A	CC 0.01μ 25V M			
OB22342A	RM 9.76K 1/4W F	C140,141	OB41607A	CC 0.1μ 16V Z			
OB22501A	RM 255K 1/4W F	C142	OB40082A	CE 1000μ 16V			
OB22356A	RM 13.3K 1/4W F	C143	OB40165A	CE 47μ 16V			
OB09709A	RK 22K 1/6W J	C144	OB40608A	CE 470μ 16V			
OB09701A	RK 10K 1/6W J	C145	OB40162A	CE 10μ 16V			
OB09725A	RK 100K 1/6W J	C146	OB41551A	CML 47P 50V J			
OB09681A	RK 1.5K 1/6W J	C147,148	OB40162A	CE 10μ 16V			
OB22147A	RM 200 1/4W F	C151,152	OB40613A	CE 100μ 10V (LN)			
OB22559A	RM 2.2M 1/4W F	C153	OB09279A	CC 22P 50V J			
OB09681A	RK 1.5K 1/6W J			(USA, CAN, THA)			
OB22559A	RM 2.2M 1/4W F		OB05905A	CC 5P 50V C			
OB22342A	RM 9.76K 1/4W F			(AUS, OTR, JPN)			
OB22501A	RM 255K 1/4W F		OB40625A	CE 1.0μ 50V (LN)			
OB22356A	RM 13.3K 1/4W F	C200	OB40625A	CE 1.0μ 50V (LN)			
OB09709A	RK 22K 1/6W J	C201	OB41534A	CML 0.012μ 50V J			
OB09701A	RK 10K 1/6W J	C202	OB40162A	CE 10μ 16V			
OB09665A	RK 330 1/6W J	C204	OB40625A	CE 1.0μ 50V (LN)			
OB09701A	RK 10K 1/6W J	C205	OB40625A	CE 1.0μ 50V (LN)			
OB09695A	RK 5.6K 1/6W J	C206	OB41534A	CML 0.012μ 50V J			
OB09665A	RK 330 1/6W J	C207	OB40162A	CE 10μ 50V			
OB09701A	RK 10K 1/6W J	C209	OB41523A	CML 8200P 50V J			
OB09695A	RK 5.6K 1/6W J	C210	OB41523A	CML 8200P 50V J			
OB09709A	RK 22K 1/6W J	C212	OB40626A	CE 2.2μ 50V (LN)			
OB09709A	RK 22K 1/6W J	C214	OB40626A	CE 2.2μ 50V (LN)			
OB09710A	RK 24K 1/6W J	C215	OB41853A	CML 3900P 50V J			
OB09709A	RK 22K 1/6W J	C216	OB41853A	CML 3900P 50V J			
OB09709A	RK 22K 1/6W J	C217	OB40079A	CE 220μ 16V			
OB09710A	RK 24K 1/6W J	C330	OB40163A	CE 22μ 16V			
OB09710A	RK 24K 1/6W J	C331	OB41528A	CML 0.022μ 50V J			
OB09709A	RK 22K 1/6W J	C332,333		(USA, CAN)			
OB09709A	RK 22K 1/6W J		OB41525A	CML 0.015μ 50V J			
OB09710A	RK 24K 1/6W J			(THA, AUS, OTR, JPN)			
OB09693A	RK 4.7K 1/6W J	C334	OB40162A	CE 10μ 16V			
OB09693A	RK 4.7K 1/6W J						

9. SCHEMATIC DIAGRAMS

9.1. IC Block Diagrams

• μ PD75008 (U103: Mechanism Control MPU)

Pin No.	Signal Name	I/O	Function
1	MSI	I	Input signal from the Blank Section Detector (U101).
2	RES	I	Reel pulse input.
3	GND	—	GND
4	B/C	O	Not used.
5	NR		
6	EQ70		
7	FAST	O	Goes H during F.F./REW.
8	HM3	O	Transport solenoid (F.R.) control output.
9	HM2	O	Transport solenoid (F.F.) control output.
10	HM1	O	Transport direction change solenoid control output.
11	MO	O	Motor control output.
12	NC	—	Open.
13	DATO	O	CDC data output. (CDC: CD changer)
14	CLK	O	CDC Clock output.
15	DIS	O	CDC display select output.
16	REM	O	Not used.
17	VSS	—	Grounded.
18	XT1	—	Grounded.
19	XT2	—	Open.
20	Reset	I	MPU system reset.
21	X1	—	4.19 MHz osc. is connected.
22	X2		
23	Mute	I	CDC mute input.

Pin No.	Signal Name	I/O	Function
24	RST	I	CDC reset input.
25	HB	O	Head base solenoid control output.
26	ACK2	O	Communication signal with the system (U600).
27	DIR	I	Playback direction switch input (Forward/Reverse).
28	MUSIC	I	Selection presence signal input.
29	DAT IN	I	CDC data input.
30	—	I	Grounded.
31	CLK IN	I	CDC clock input.
32	PLL	I	Memory back-up input.
33	SET	I	Cassette installation detection switch input.
34	NC	—	Open.
35	IN	I	Cassette loading detection switch input.
36	NES	I	Reel pulse input.
37	REQ	I	Communication signal with the system (U600).
38	NC	—	Open.
39	VDD	—	+5 V is supplied.
40	D3	O	Communication data with the system (U600).
41	D2		
42	D1		
43	D0		
44	—	I	Grounded.

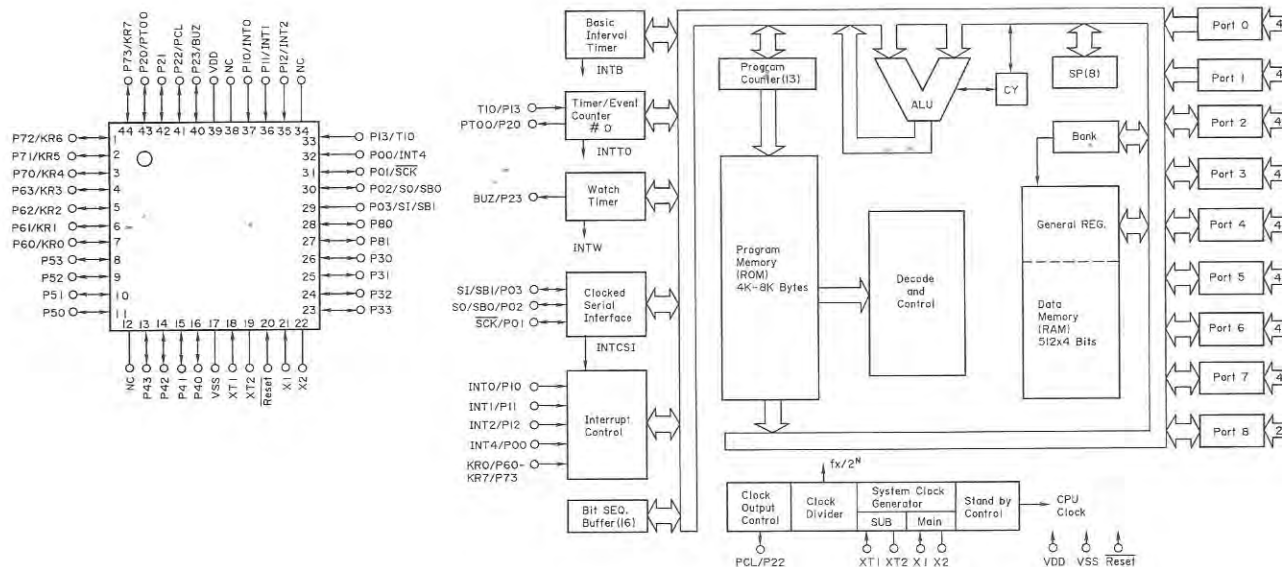


Fig. 9.1.1 4-Bit Microprocessing Unit μ PD75008

• μ PD75308 (U600: System MPU)

Pin No.	Signal Name	I/O	Function
1 to 20	S12 to S31	O	LCD segment drive output signals.
21 to 22	COM0 to COM1	O	LCD common output signals.
23 to 24	COM2 to COM3	O	Not used.
25	Bias	—	LCD bias setting pin.
26	VLC0	—	LCD power supply.
27	VLC1	—	LCD power supply.
28	VLC2	—	LCD power supply.
29 to 32	D0 to D3	I/O	Communication signals with the mechanism control MPU (U103).
33	VSS	—	Grounded.
34 to 36	SKS0 to SKS2	O	Key strobe output signals.
37	JPS	O	Function setting output. Selects clock display function for Australia, Other and Japan.
38	ACHK	I	Input for detecting ACC ON. H: Normal operating mode L: OFF mode
39	$\overline{\text{SCK}}$	O	Communication signal with DTS (U105).
40	SO	O	Communication line with DTS (U105).
41	SI	I	Communication line with DTA (U105).
42	REMDTE	I	Receives input pulses from the Remote Control Unit.
43	ACK	I	Communication signal with DTS (U105).
44	ACK2	I	Communication signal with the mechanism control MPU (U103).

Pin No.	Signal Name	I/O	Function
45	PCHK	I	Not used.
46	REQ	O	Communication signal with DTS (U105).
47	$\overline{\text{PLL}}$	O	Memory back-up output signal to the mechanism control MPU (U103).
48	CE	O	Memory back-up output signal to DTS (U105). Operation command to CDC.
49	REQM	O	Communication signal with the mechanism control MPU (U103).
50 to 51	NC to NC	—	Open.
52	BCHK	I	Memory back-up detection input signal. H: Normal operating mode L: Memory back-up mode
53	ATT	O	Audio mute signal. Active H.
54	VDD	—	+5 V is supplied.
55	XT1	—	Grounded.
56	XT2	—	Open.
57	NC	—	Open.
58 to 59	X1 to X2	—	4.19 MHz osc. is connected.
60 to 66	KR0 to KR6	I	Key scanning input signals.
67	PSW	I	Power switch input signal.
68	$\overline{\text{Reset}}$	I	MPU system reset input signal.
69 to 80	S0 to S11	O	LCD segment drive output signals.

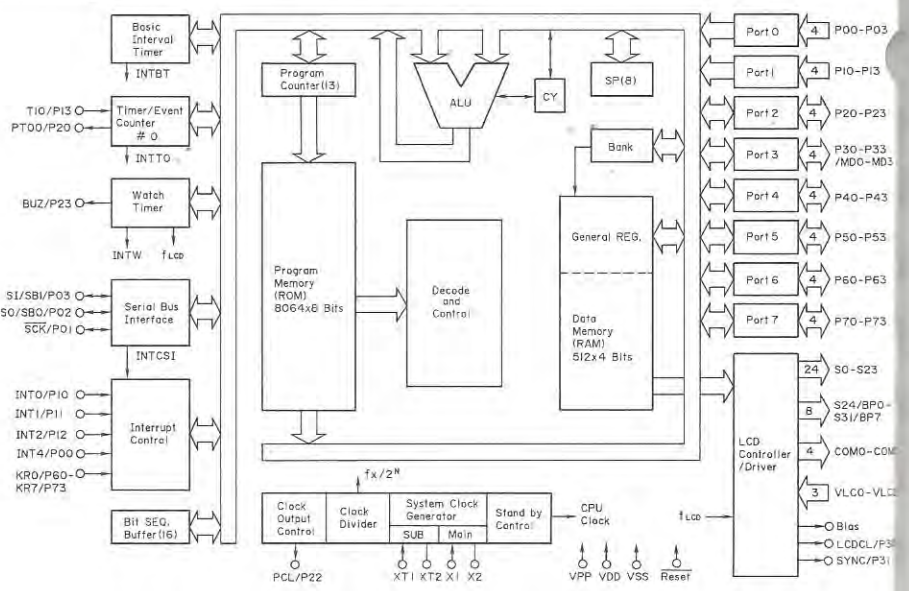
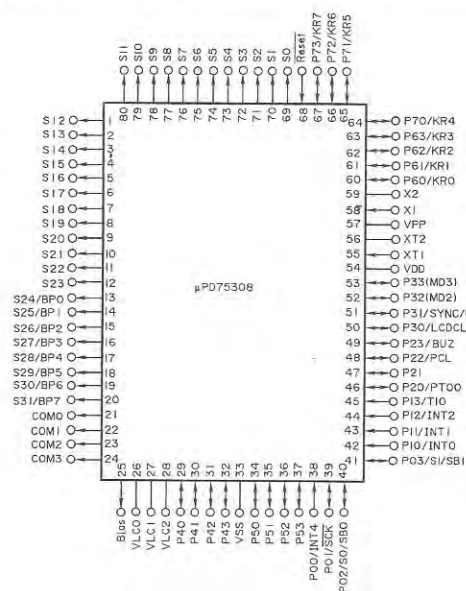


Fig. 9.1.2 4-Bit Microprocessing Unit μ PD75308

- μ PD1722 (U105: Digital Tuning System (DTS))

Pin No.	Signal Name	I/O	Function
1	EO1	O	PLL error output.
2	EO2	O	PLL error output. (Not used.)
3	VDD	—	+5 V for analog circuit.
4	AMOSC	I	AM local osc. input.
5	FMOSC	I	FM local osc. input.
6	CE	I	H: Normal operating mode. L: Memory back-up mode.
7	VDD	—	+5 V for digital circuit.
8	SKIP	O	Skip output. H: Skip ON
9	$\overline{\text{AGC/C}}$	O	Radio mode ... L: Seeking Tuner mode ... L: Dolby NR C ON
10	MO/NR	O	Radio mode ... H: Mono ON Tuner mode ... H: Dolby NR B/C ON
11	LO/70	O	Radio mode ... H: Local ON Tuner mode ... H: Eq. 70 μ ON
12	AMIF	I	IF input signal for AM seek stop.
13	FMIF	I	IF input signal for FM seek stop.
14	SI	I	Communication line with the system MPU (U600).
15	$\overline{\text{SCK}}$	I	Communication signal with the system MPU (U600).
16	SO	O	Communication line with the system MPU (U600).
17	ACK	O	Communication signal with the system MPU (U600).
18	$\overline{\text{Mute}}$	O	Line mute output. Active L.
19	P-ANT	O	Power antenna control output (Radio mode only). H: Power antenna ON
20 21	XO XI	—	4.5 MHz crystal is connected.
22	GND	—	GND
23	Beep	O	Beep sound output (3.25 kHz).
24 25	M2 M1	O	Operational mode select signals. <u>M2</u> L L H H <u>M1</u> L H L H <u>Mode</u> OFF Radio mode Tape mode CD mode
26 27	B2 B1	O	Reception band select signals. <u>B2</u> L L H <u>B1</u> L H L <u>Band</u> MW (AM) LW (AM) FM
28 to 31	Test	—	Not used (open).
32 to 41	NC	—	Open.
42	GND	—	GND

Pin No.	Signal Name	I/O	Function
43	REQ	I	Communication signal with the system MPU (U600).
44 45	SK FAST	I I	Not used.
46	ST	I	Stereo reception input (Radio mode). H: Receiving stereo broadcasting.
47	SS	I	Connected to H level.
48	INT	I	Reception range select input.

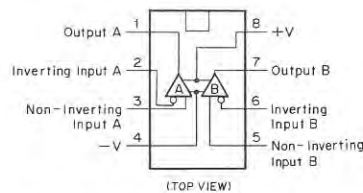


Fig. 9.1.3 Operational Amplifier IC NJM4558DD

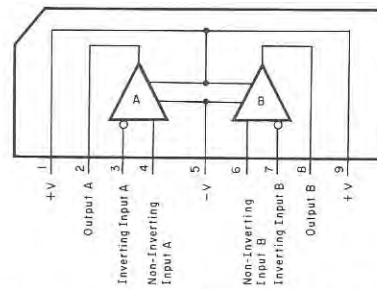


Fig. 9.1.4 Operational Amplifier IC NJM4558S

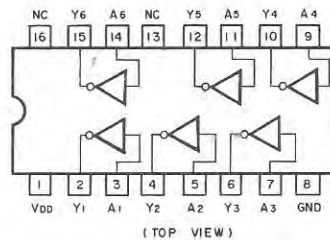


Fig. 9.1.5 Inverter IC TC4049BP

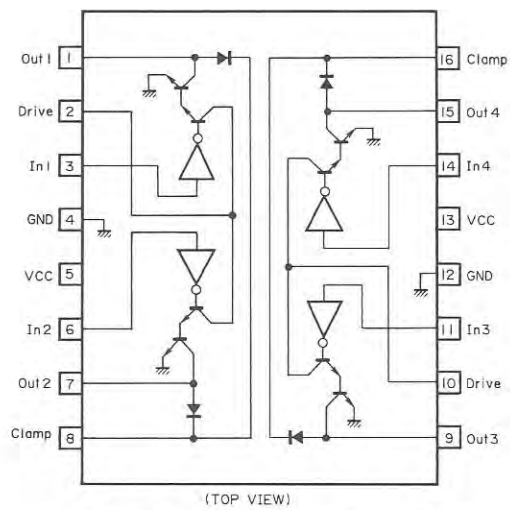


Fig. 9.1.6 Driver Array IC M5265P

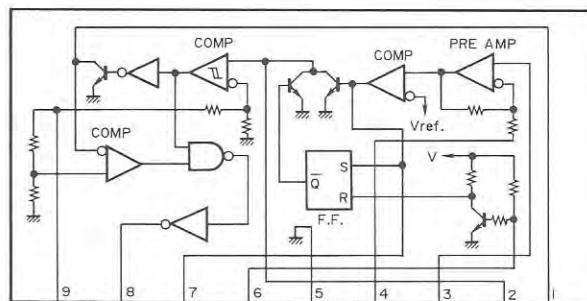


Fig. 9.1.7 Blank Section Detector IC BA338

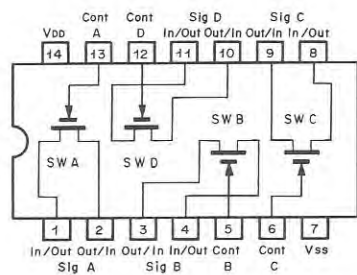


Fig. 9.1.8 Bilateral Switch IC TC4066BP

9.2. Schematic Diagrams

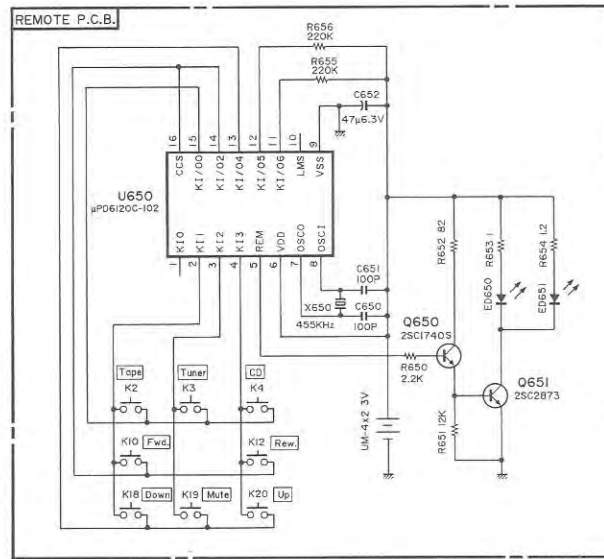
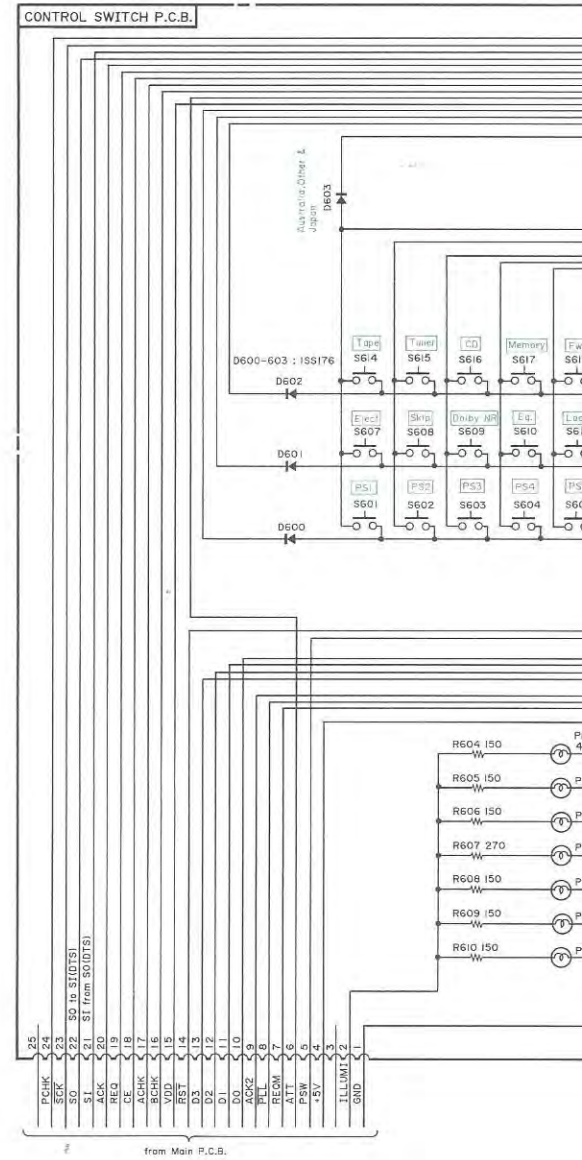


Fig. 9.2.1 Remote Control Unit



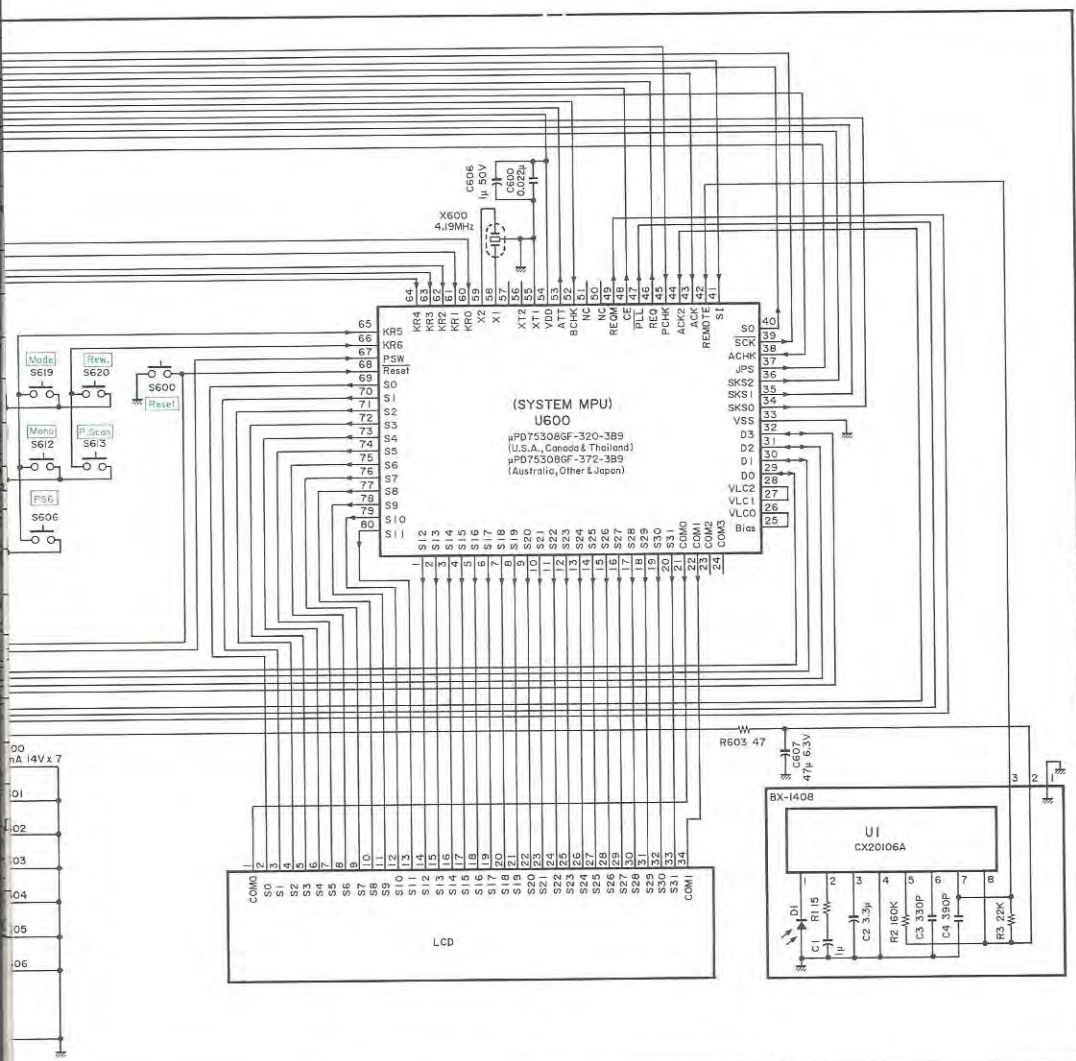


Fig. 9.2.2



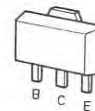
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2SC2873



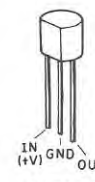
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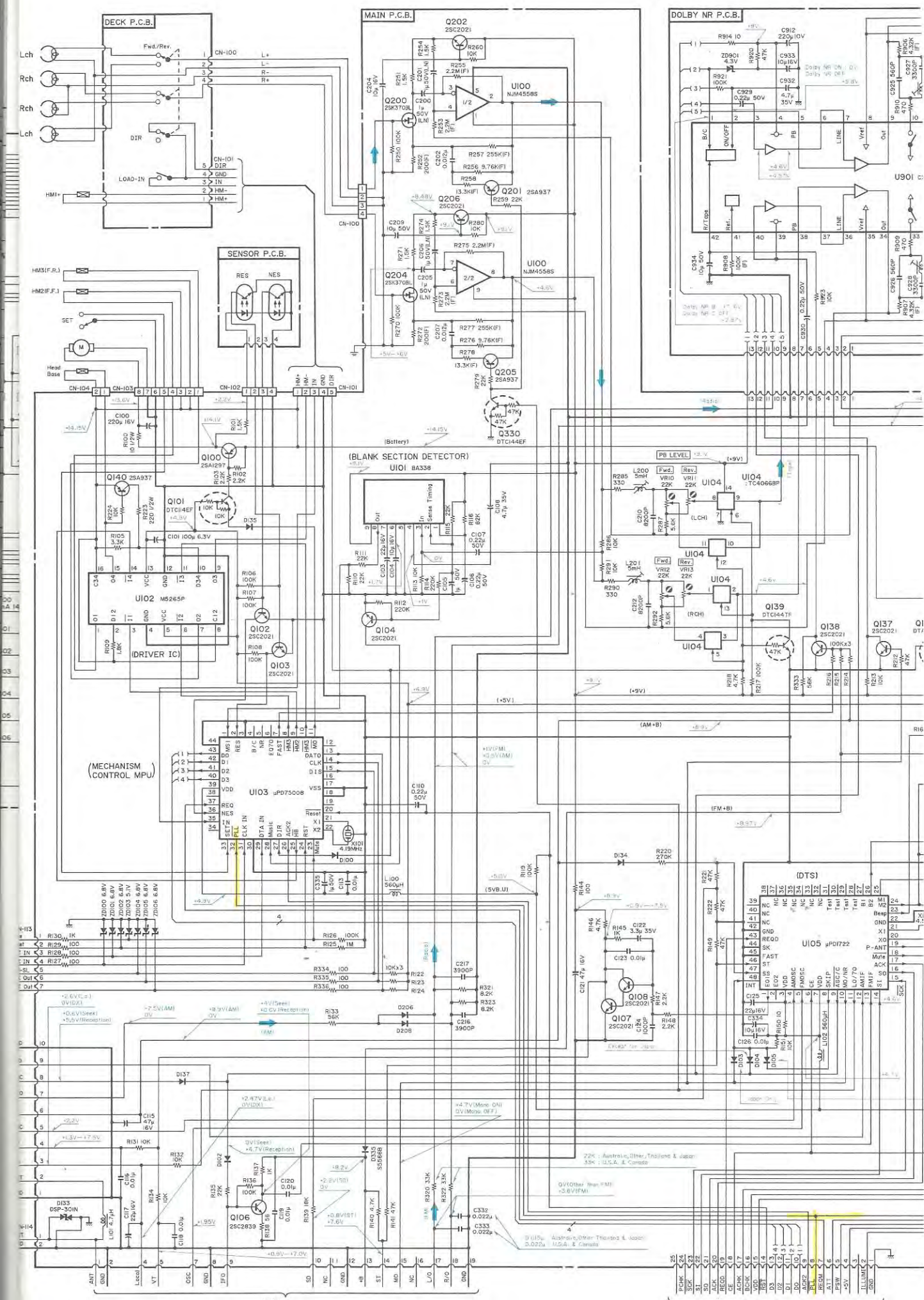
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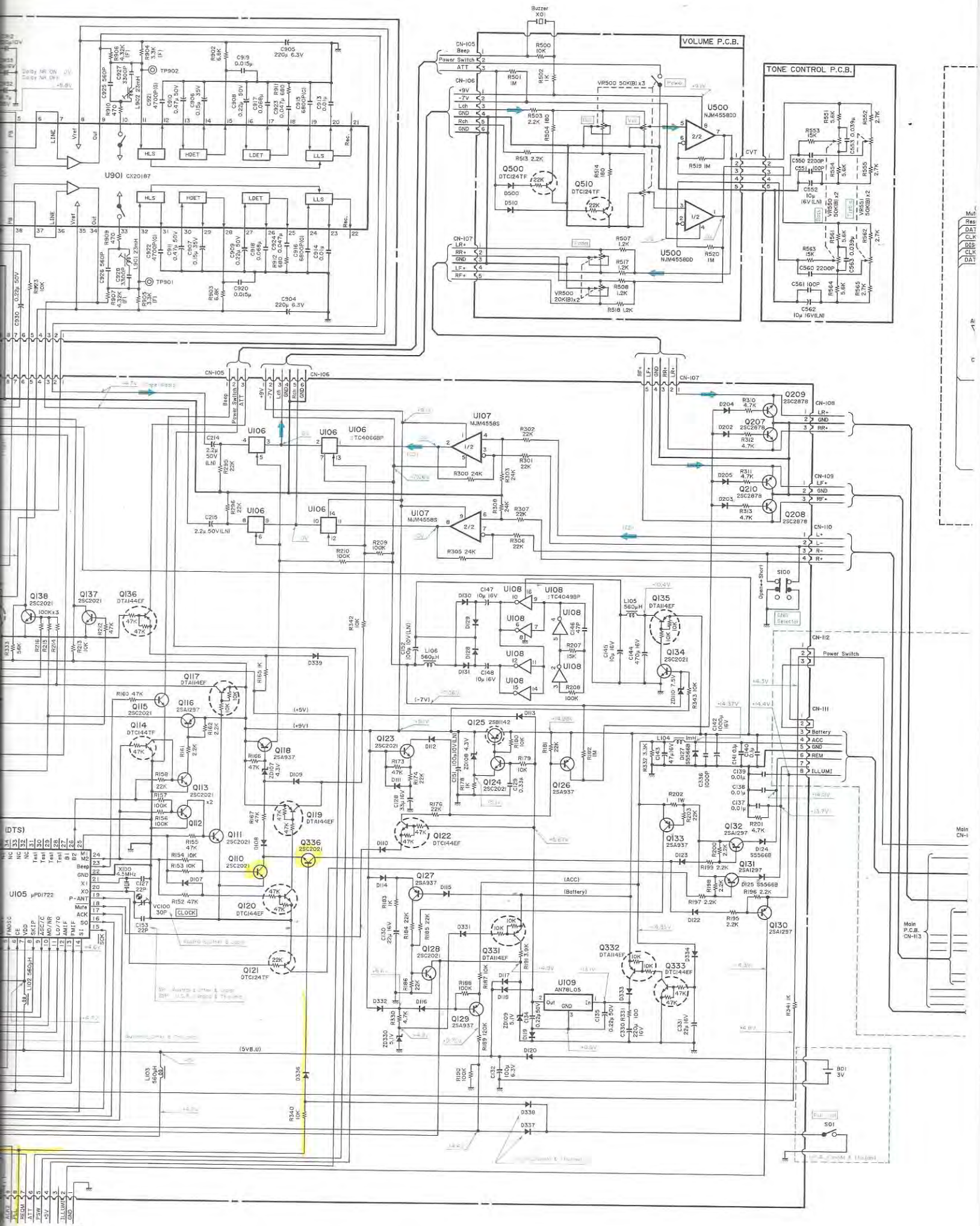


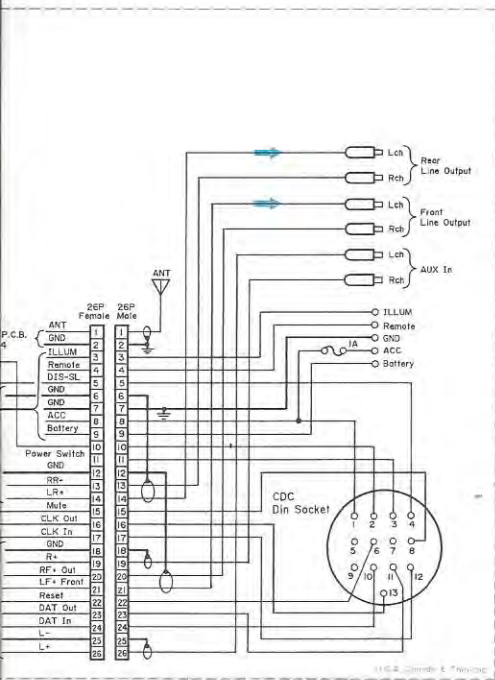
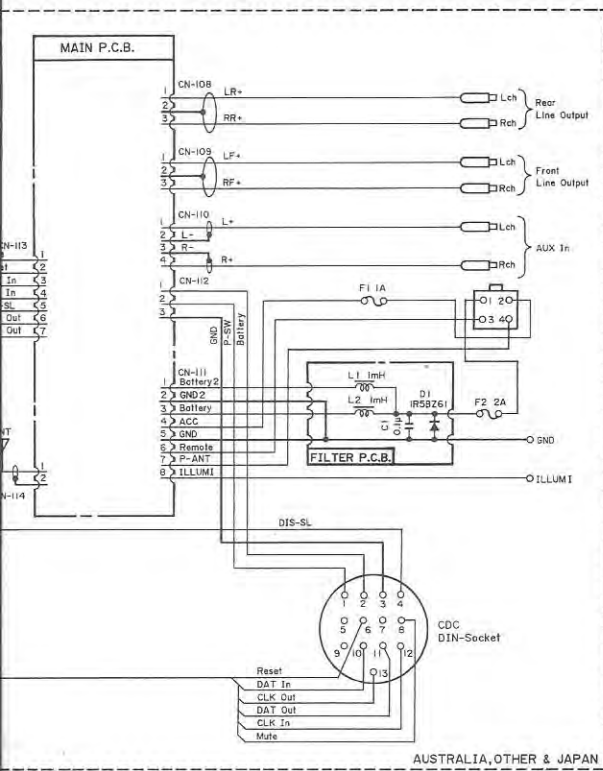
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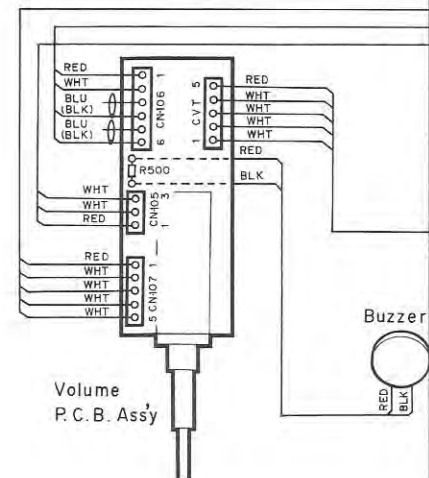
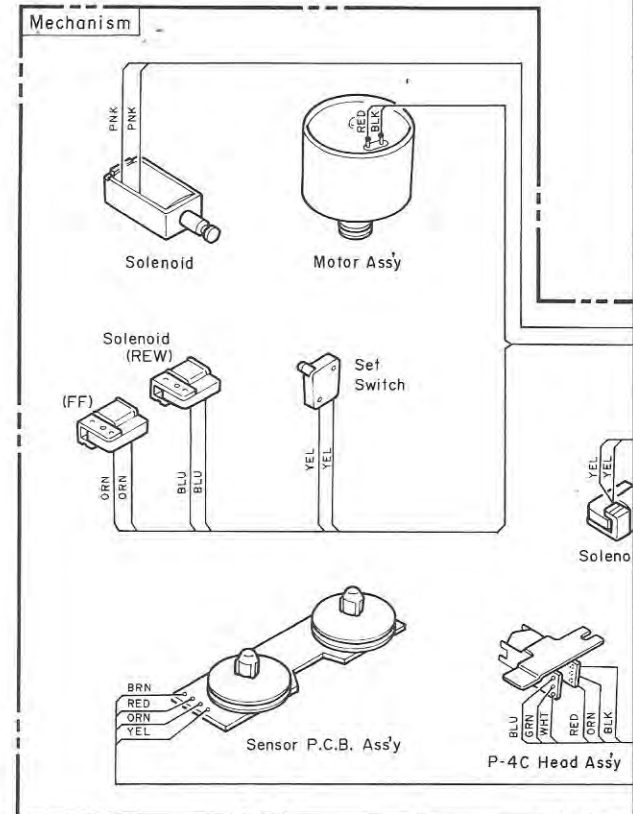
AN78L05







10. WIRING DIAGRAMS



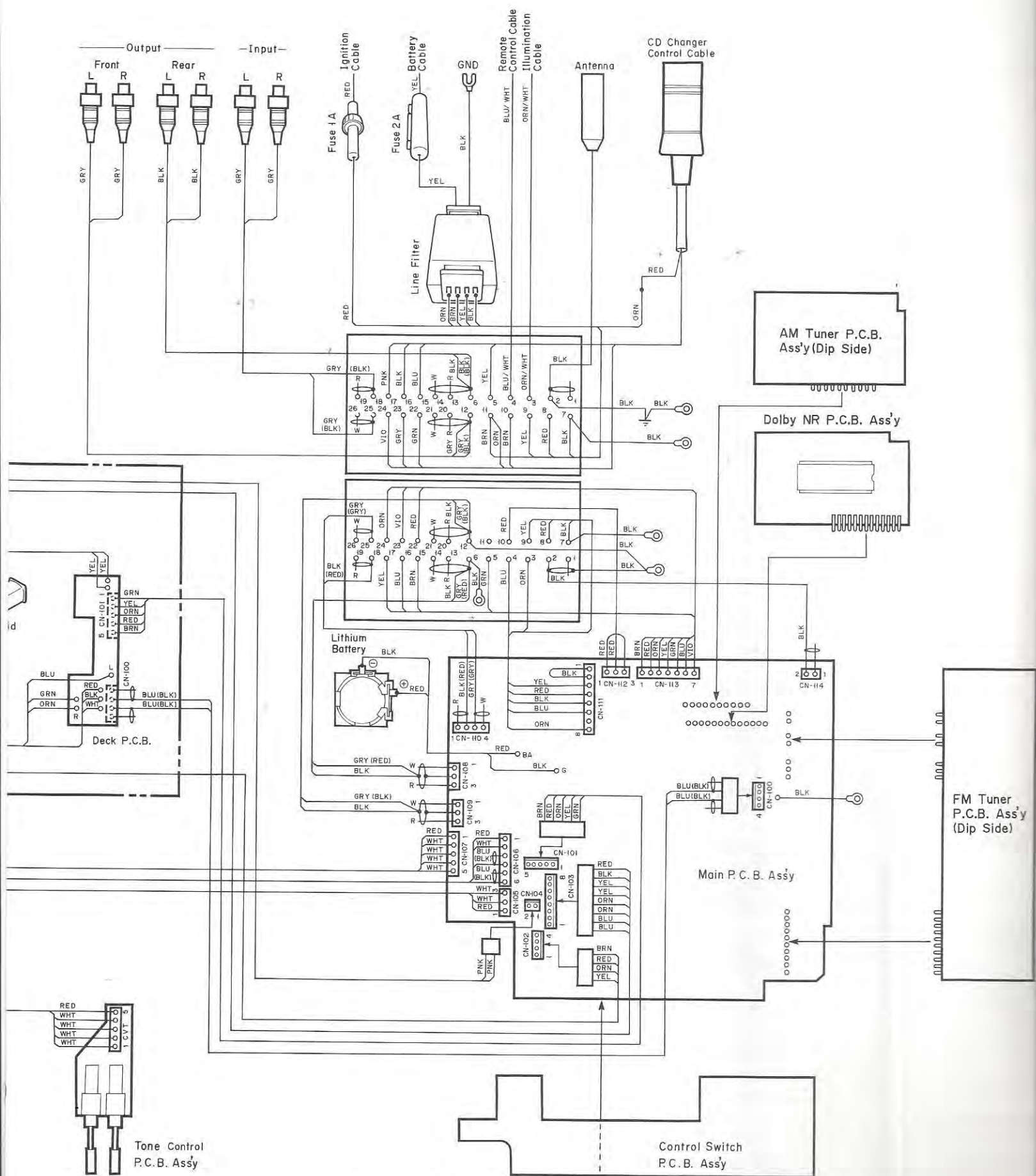
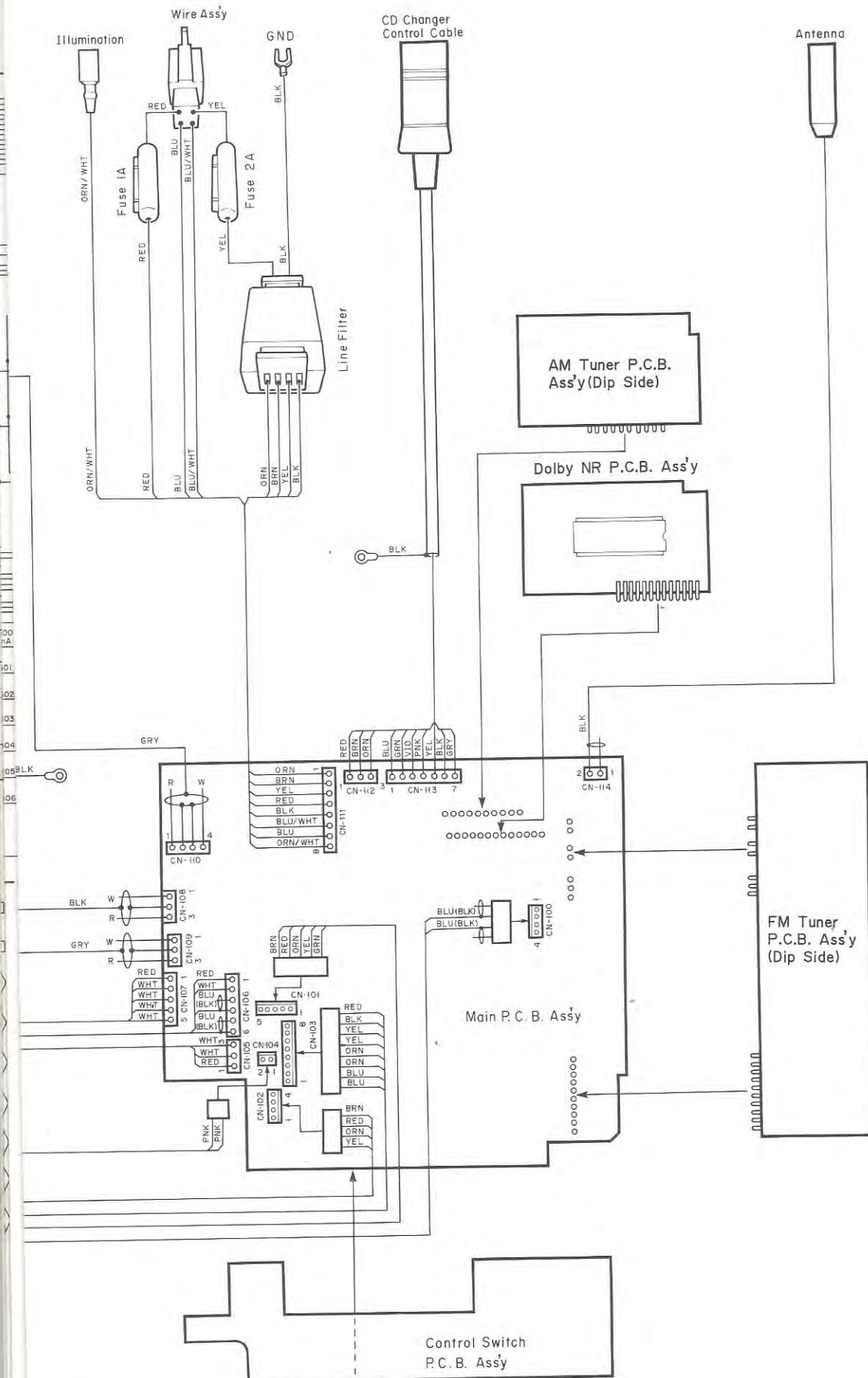


Fig. 10.1 (For TD-560/TD-560T)

1. Table of wire colors

-





11. BLOCK DIAGRAM

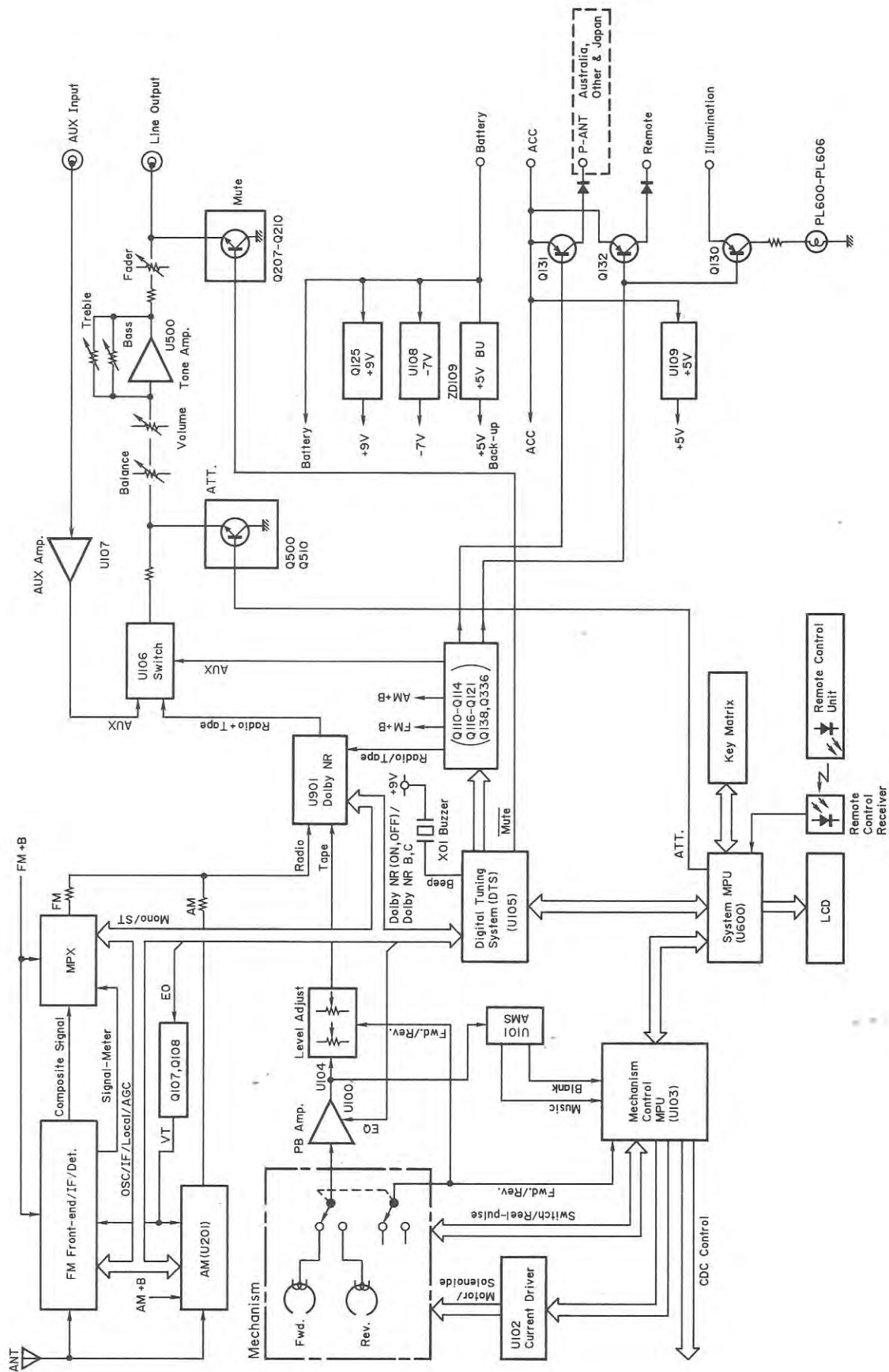


Fig. 11

12. SPECIFICATIONS

(1) Cassette Deck Section

Tape Speed	1-7/8 ips (4.8 cm/sec.)
Wow and Flutter	Less than 0.08% WTD RMS
Frequency Response	20—20,000 Hz ± 3 dB (Nakamichi Test Tape)
Signal to Noise Ratio	Dolby C-Type NR On $<70 \mu\text{s}$, ZX (Tape IV) Tape> Better than 70 dB (400 Hz, 3% THD, IHF A-WTD RMS) Dolby B-Type NR On $<70 \mu\text{s}$, ZX (Type IV) Tape> Better than 64 dB (400 Hz, 3% THD, IHF A-WTD RMS)
Channel Separation	Better than 35 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Fast-Winding Time	Approx. 75 sec. (with C-60 cassette)

(2) Tuner Section

• FM

Frequency Range	87.5—107.9 MHz (in 200 kHz steps) (TD-560) 87.5—108.00 MHz (in 100 kHz steps) (TD-560T, RD-701)
Sensitivity	17 dBf (IHF)
50 dB Quieting Sensitivity	22 dBf (Mono)
Total Harmonic Distortion	0.3% (Mono 1 kHz) Input 65 dBf
Signal to Noise Ratio	65 dB (Mono)
Frequency Response	30—15,000 Hz
Alternate Channel Selectivity	65 dB (± 400 kHz)
Image Rejection at 98 MHz	40 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—1,620 kHz (in 10 kHz steps) (TD-560) 531—1,602 kHz (in 9 kHz steps) (TD-560T, RD-701)
Sensitivity	30 dB μ

• Preamplifier Section

Frequency Response	10—50,000 Hz ± 1 dB
Output Level/Impedance	0.7 V/1 kohm
CD (Aux) Input/Impedance	0.5 V/10 kohms
Total Harmonic Distortion	Less than 0.005%
Tone Control	
Bass	20 Hz ± 10 , -5 dB
Treble	20 kHz, ± 10 , -5 dB

• General

Power Source	14.4 V DC negative ground (10.8—15.6 V allowable)
Current Consumption	2.0 A Maximum
Dimensions*	190 (W) x 59 (H) x 178 (D) mm 7-1/2 (W) x 2-5/16 (H) x 7 (D) inches (TD-560, TD-560T) 178 (W) x 50 (H) x 170 (D) mm 7 (W) x 2 (H) x 6-11/16 (D) inches (RD-701)
Approximate Weight	2.0 kg/4 lbs. 7 oz. (TD-560, TD-560T) 1.6 kg/3 lbs. 8 oz. (RD-701)

• Remote Control Unit

Principle	Infrared pulse system
Power Supply	3 V DC (1.5 V x 2)
Dimensions*	57 (W) x 14 (H) x 80 (D) mm 2-1/4 (W) x 9/16 (H) x 3-1/8 (D) inches
Approximate Weight	55 g/2 oz. (including batteries)

*: Dimensions do not include protruding parts. Height is the panel height.

- Specifications and design are subject to change for further improvement without notice.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.
- The word "Dolby" and the Double-D-Symbol are trademarks of Dolby Laboratories Licensing Corporation.

Service Information

Model TD-560, TD-560T, RD-701/TD-540, TD-540T, RD-601
(Mobile Tuner/Cassette Deck)

Serial No. from -

Subject Possibility of Damages on the
Head Base Solenoid Drive IC

Nakamichi

No. OOD-SI-3125 (1/2)

Date 30 January 1991

1. Introduction

This Service Information is prepared to inform you of the possibility that the head base solenoid drive IC (U102 M5265P) on the Main P.C.B. Ass'y might be broken. Once it is broken, the head base solenoid might be broken accordingly.

To prevent the head base solenoid drive IC from damages, it is recommended to add a diode (1SS176) in parallel with the head base solenoid. See Fig. 1.

We recommend you to take this countermeasures (addition of a diode) for the returned machines referring to 2. "Modification".

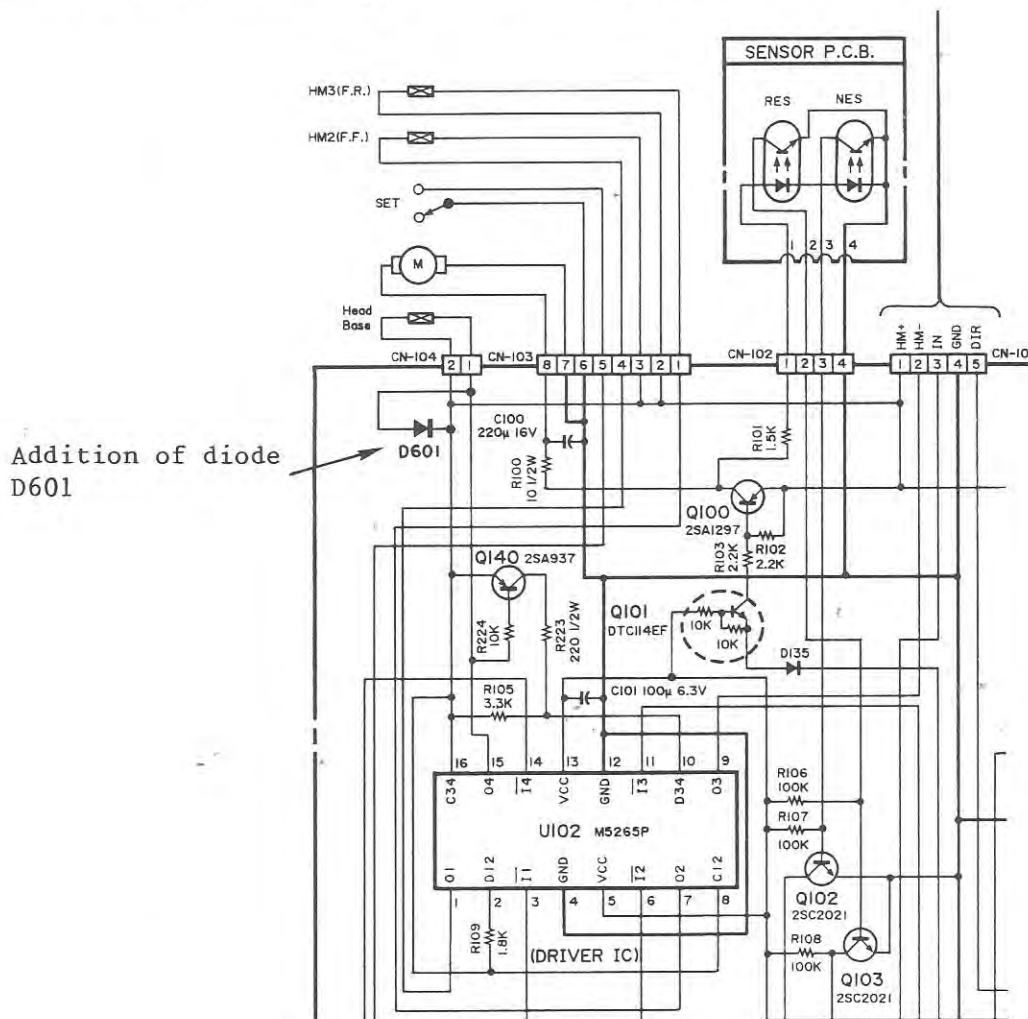


Fig.1

(Please turn over.)

2. Modification

2.1. Parts Required

Ref. No.	Part No.	Description	Q'ty
D601	0B06398A	SiD 1SS176	1

2.2. Modification Procedures

- (1) Remove the Bottom Cover Ass'y by loosening two screws.
- (2) Mount D601(1SS176) across both pins of CN-104 from the dip side of the Main P.C.B. Ass'y. Pay attention to its polarity. See Fig. 2.
- (3) Check that the head base solenoid drive IC (U104) on the Main P.C.B. Ass'y and the head base solenoid which is connected to CN-104 operate properly. If not, repair the IC and/or solenoid.
- (4) Install the Bottom Cover Ass'y.
- (5) Check the performance of the machine.

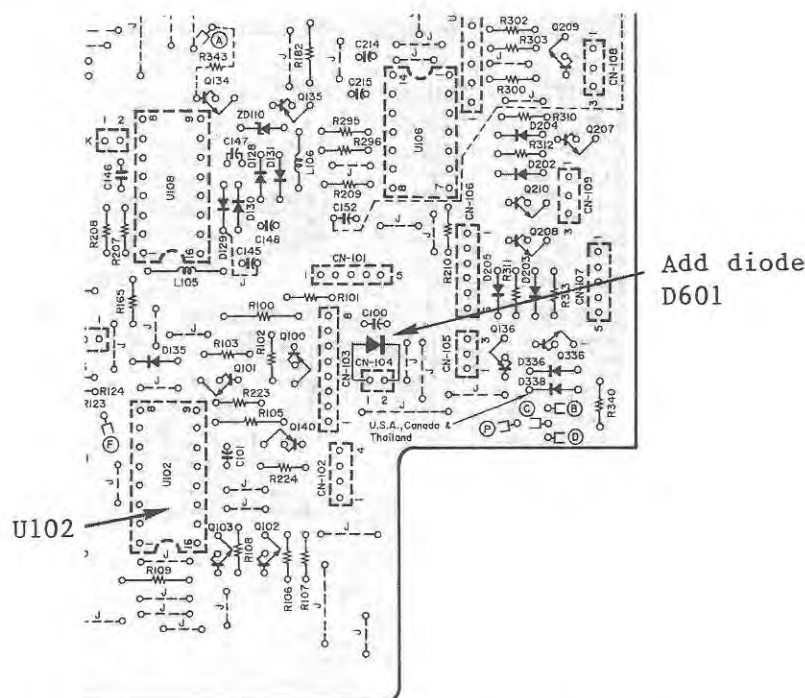


Fig. 2 Main P.C.B. Ass'y (Dip Side View)

Service Manual

Nakamichi

TD-560, TD-560T, RD-701



Nakamichi Corporation/Tokyo Office
Nakamichi America Corporation
Nakamichi Canada
Nakamichi GmbH
Nakamichi Australia

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