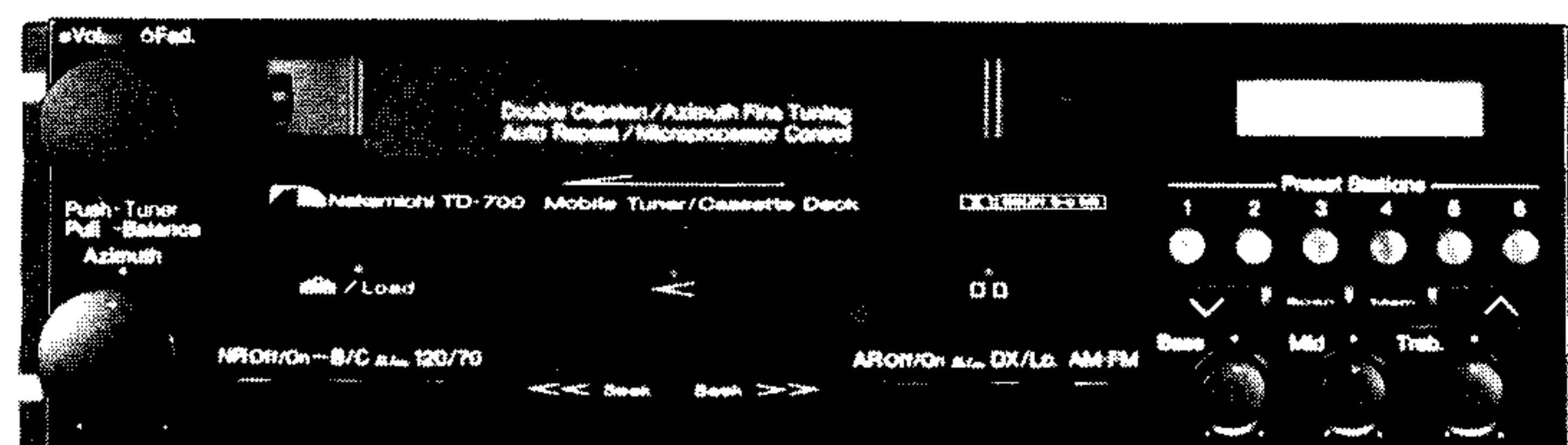




Service Manual

Nakamichi TD-700 TD-700E TD-700D

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>
0F03845A	Outer Carton TD-700	1
0F03853A	Outer Carton TD-700E	1
0F03836A	Outer Carton TD-700D	1
0F03822A	Inner Carton TD-700 (U.S.A.)	1
0F03823A	Inner Carton TD-700 (Canada, Australia, Others & Japan)	1
0F03827A	Inner Carton TD-700E	1
0F03835A	Inner Carton TD-700D	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-700 & TD-700E	1
0B81271E	4P Terminal TD-700D	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-700	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).

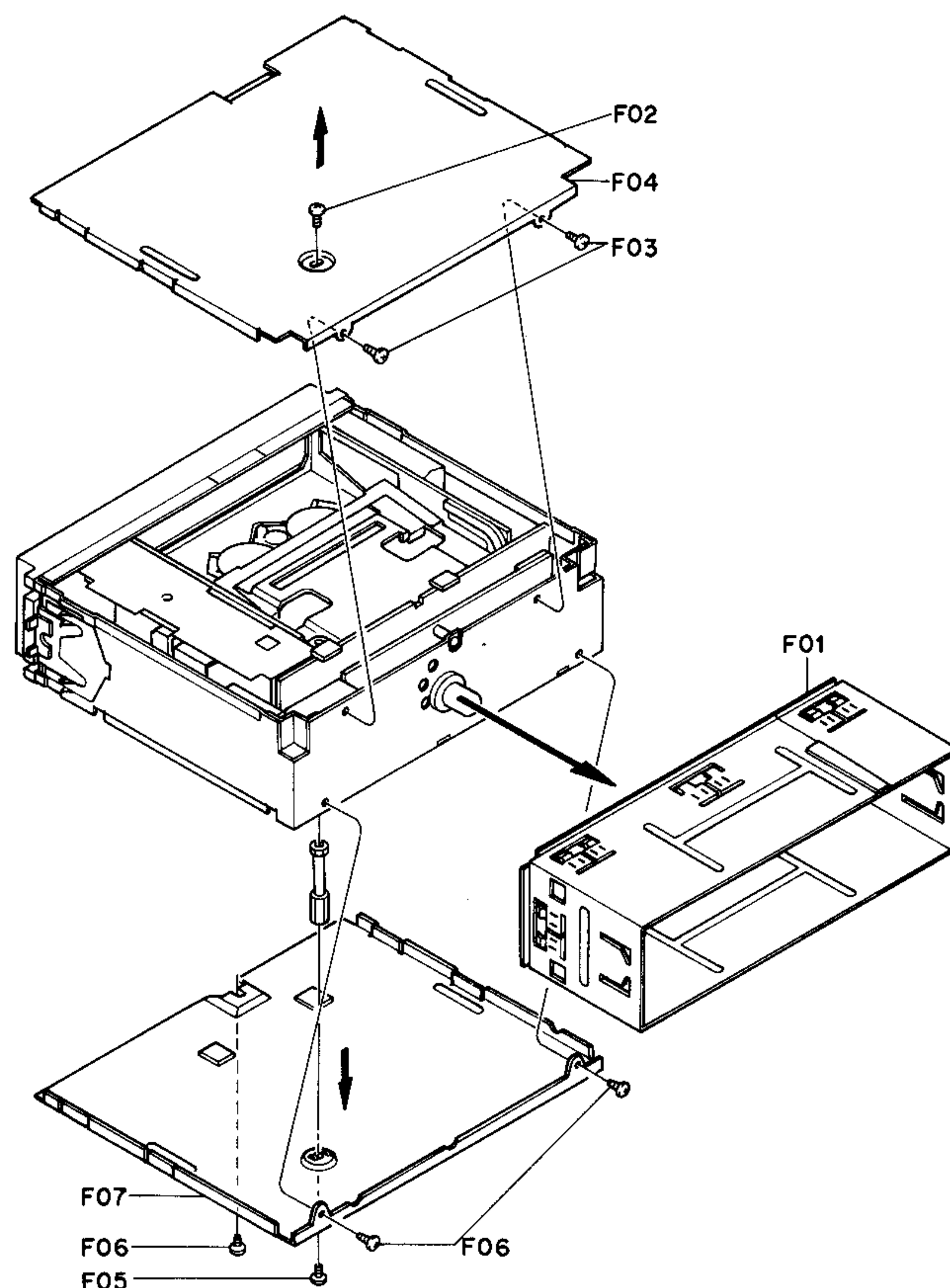


Fig. 2.1

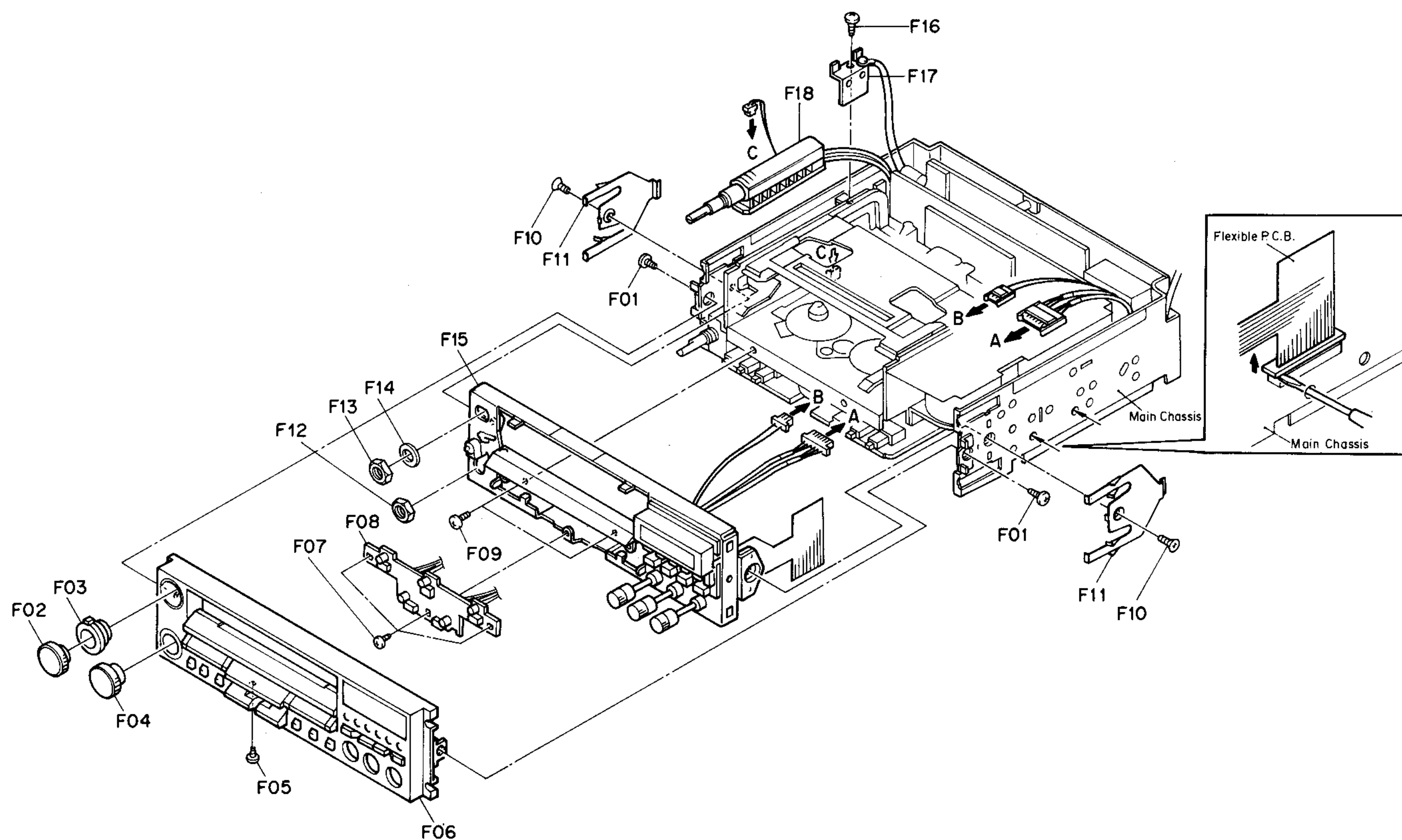


Fig. 2.2

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.

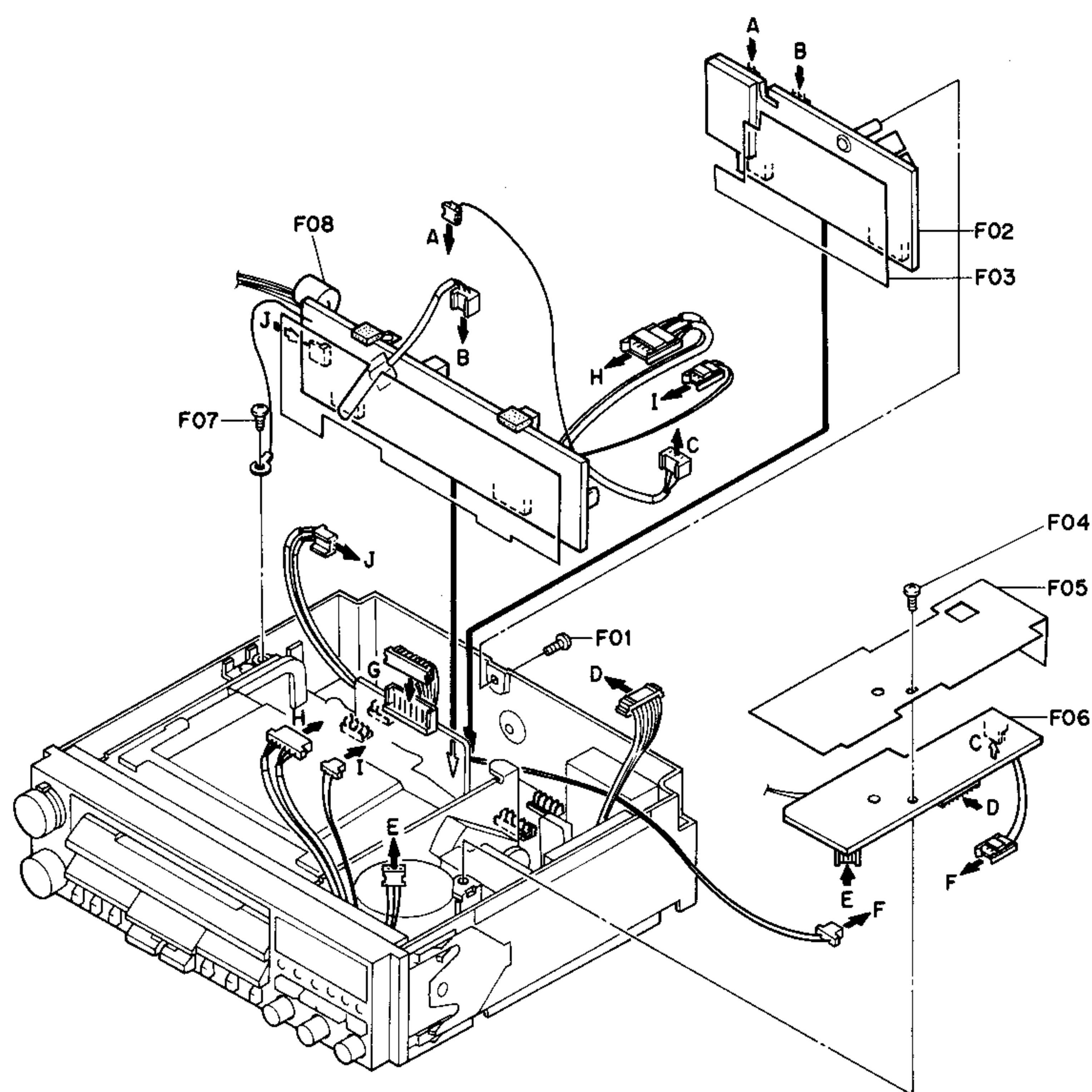


Fig. 2.3

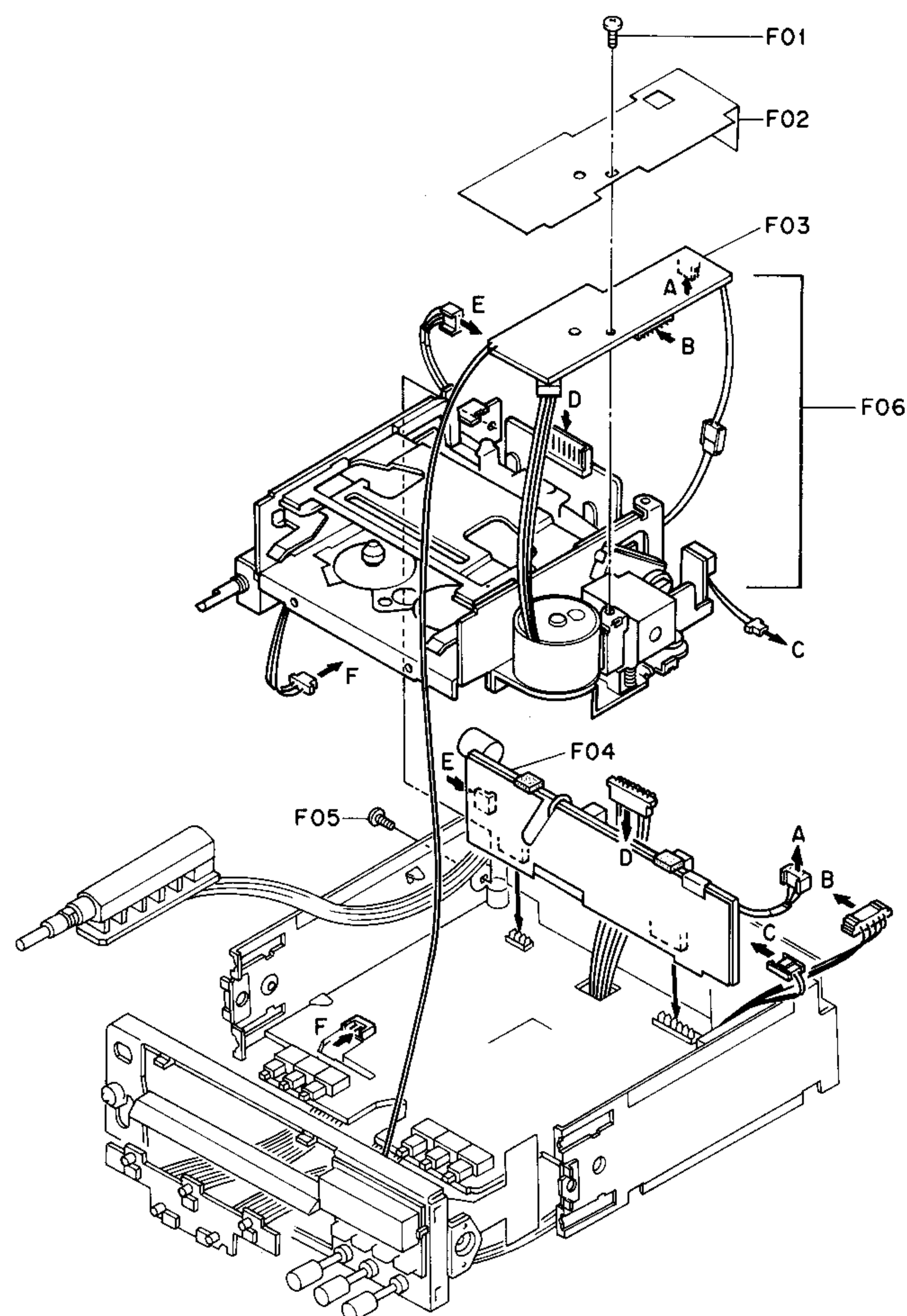


Fig. 2.4

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.: C60502839 - (TD-700 & TD-700E) and C60701201 - (TD-700D)

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.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

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.

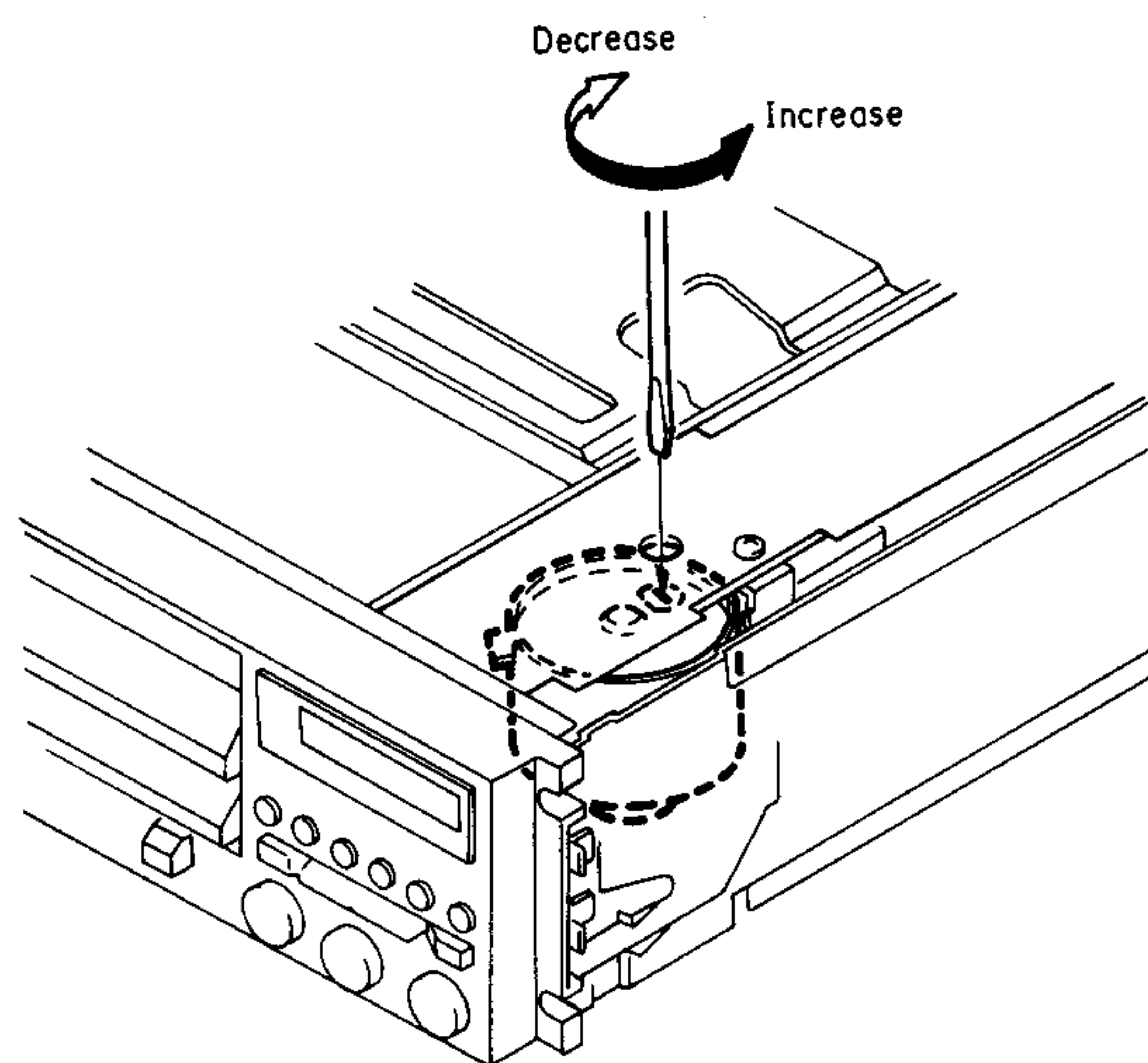


Fig. 4.1

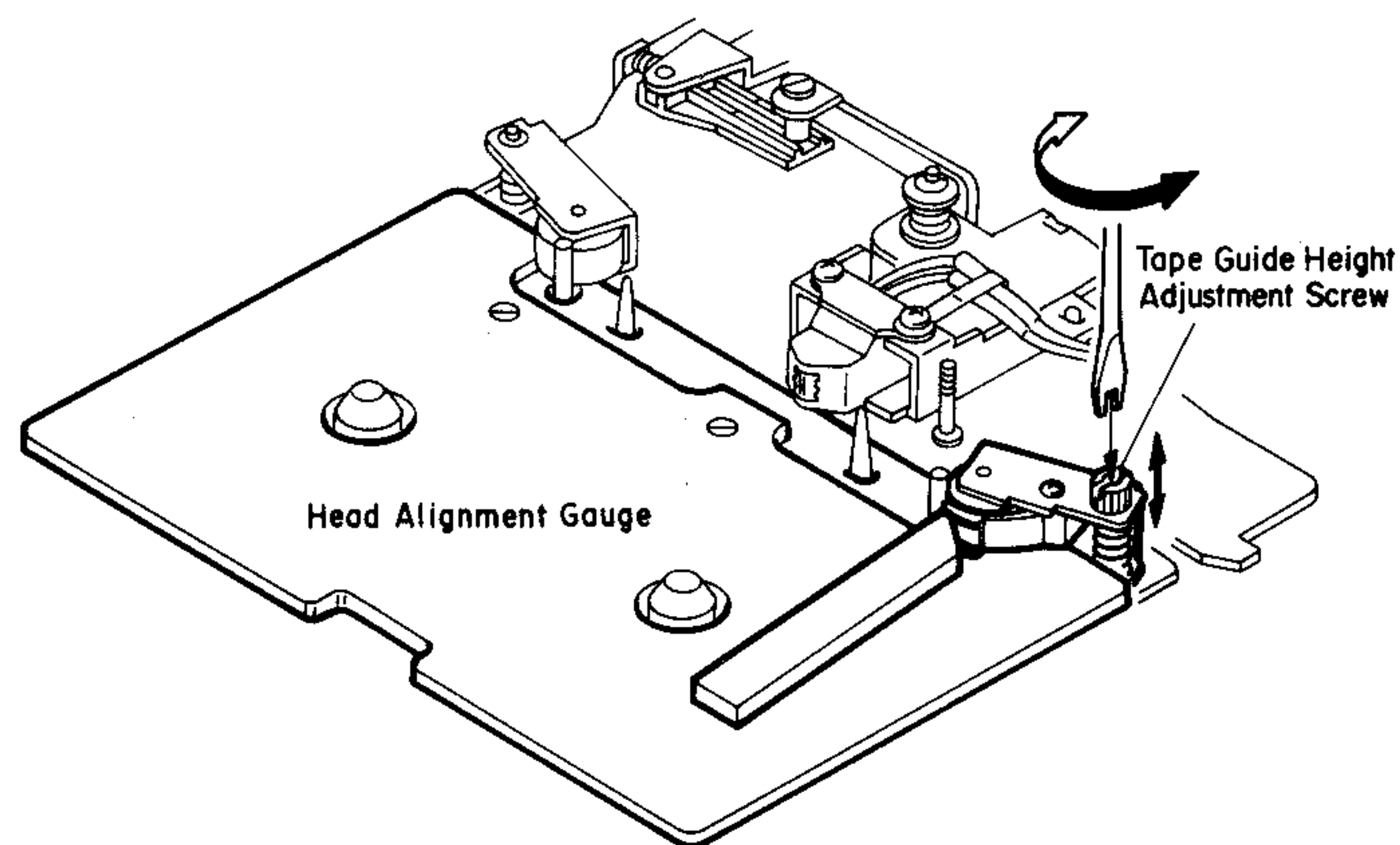


Fig. 4.2
Serial No.: C60502839 -
(TD-700 & TD-700E)
C60701201 - (TD-700D)

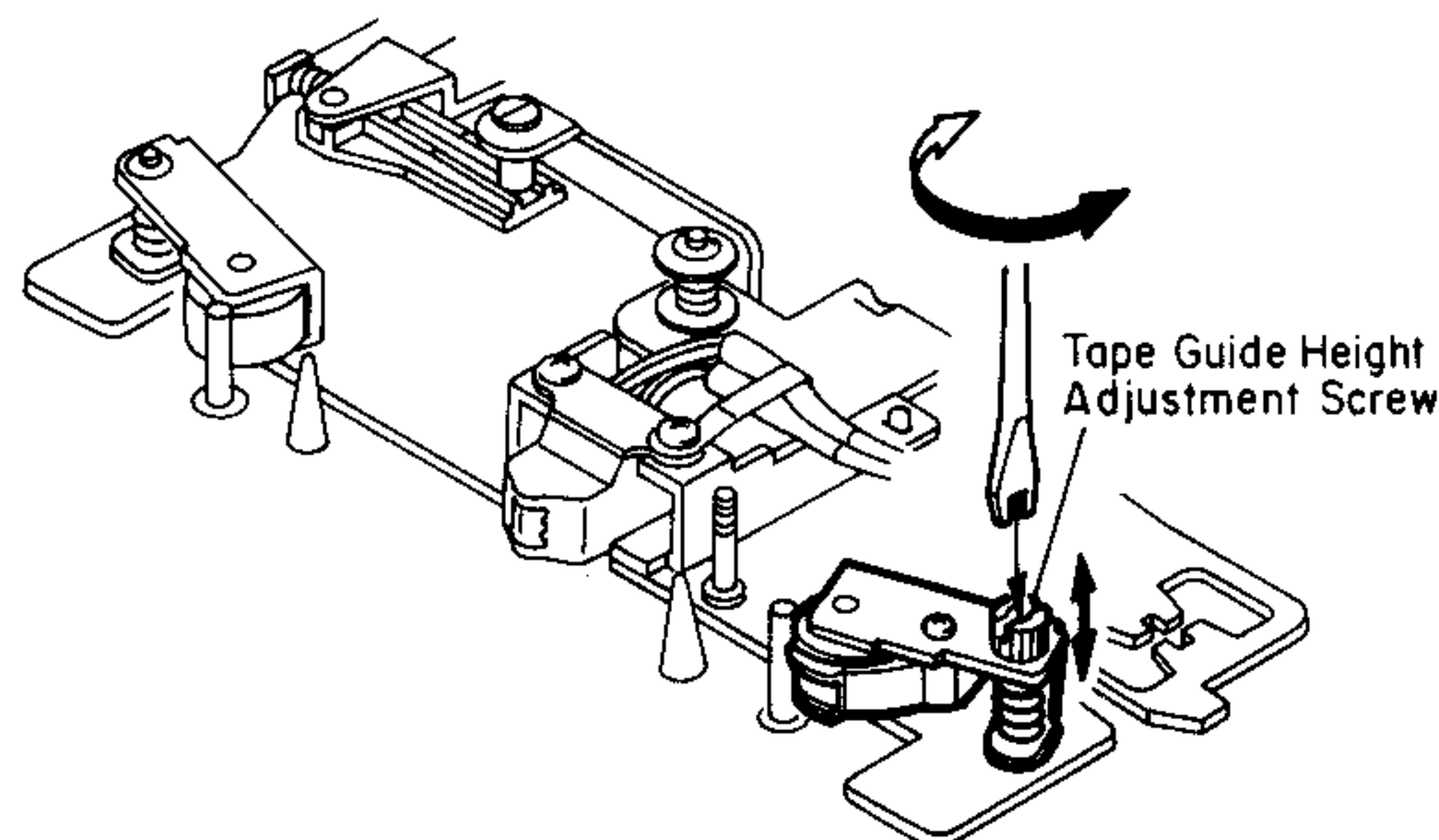


Fig. 4.3
Serial Nos.: C60501001 - 02838
(TD-700 & TD-700E)
C60701001 - 01200
(TD-700D)

4.3. Playback Head Height Adjustment and Azimuth Alignment

- (1) For Serial Nos.: C60502839 - (TD-700 & TD-700E) and C60701201 - (TD-700D)

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.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

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 $\pm$ 5 to $\pm$ 10 g-cm
Back tension torque: 10 g-cm $\pm$ 4 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 $\pm$ 10 to $\pm$ 40 g-cm (50 to 100 g-cm)

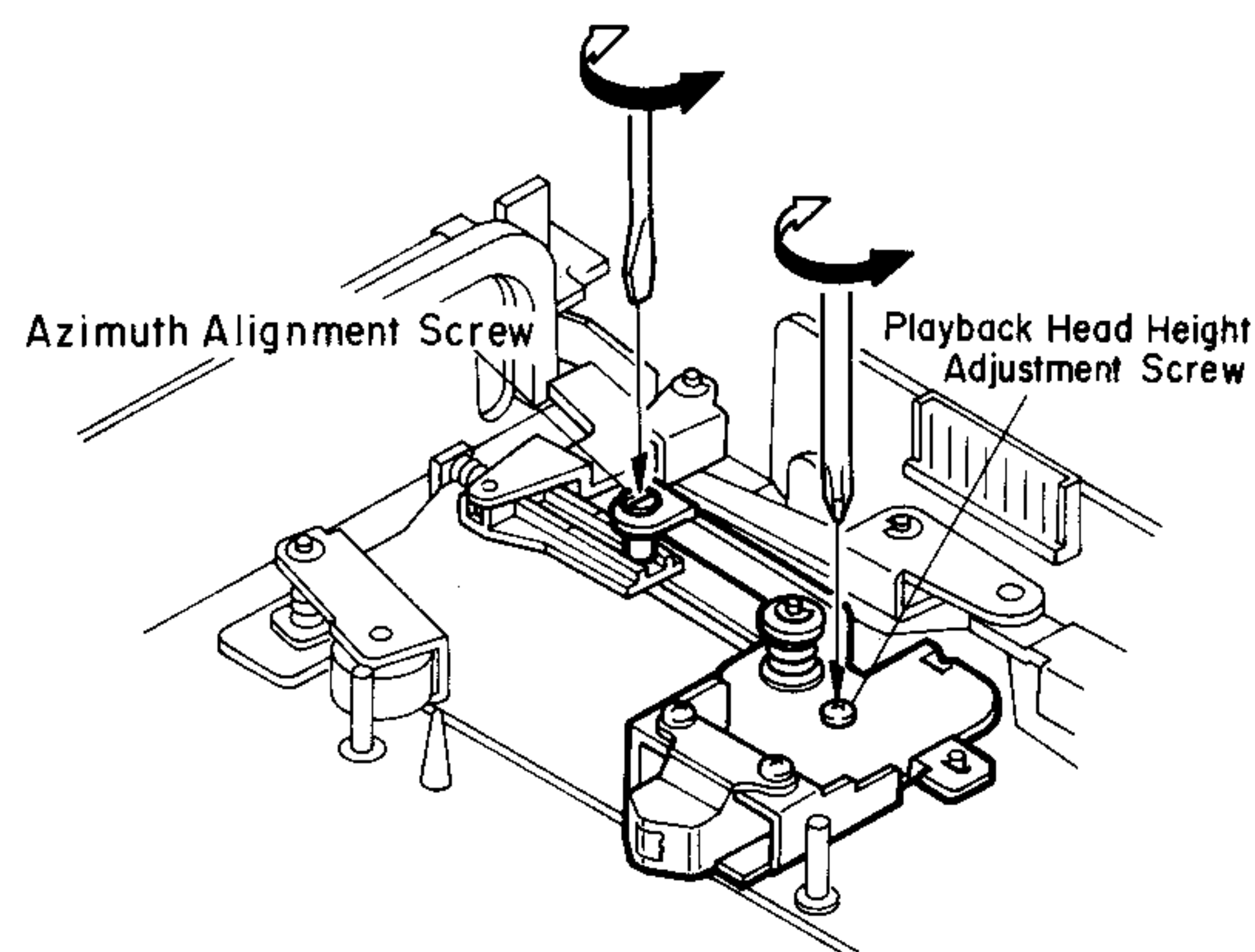


Fig. 4.4
Serial No.: C60502839 -
(TD-700 & TD-700E)
C60701201 - (TD-700D)

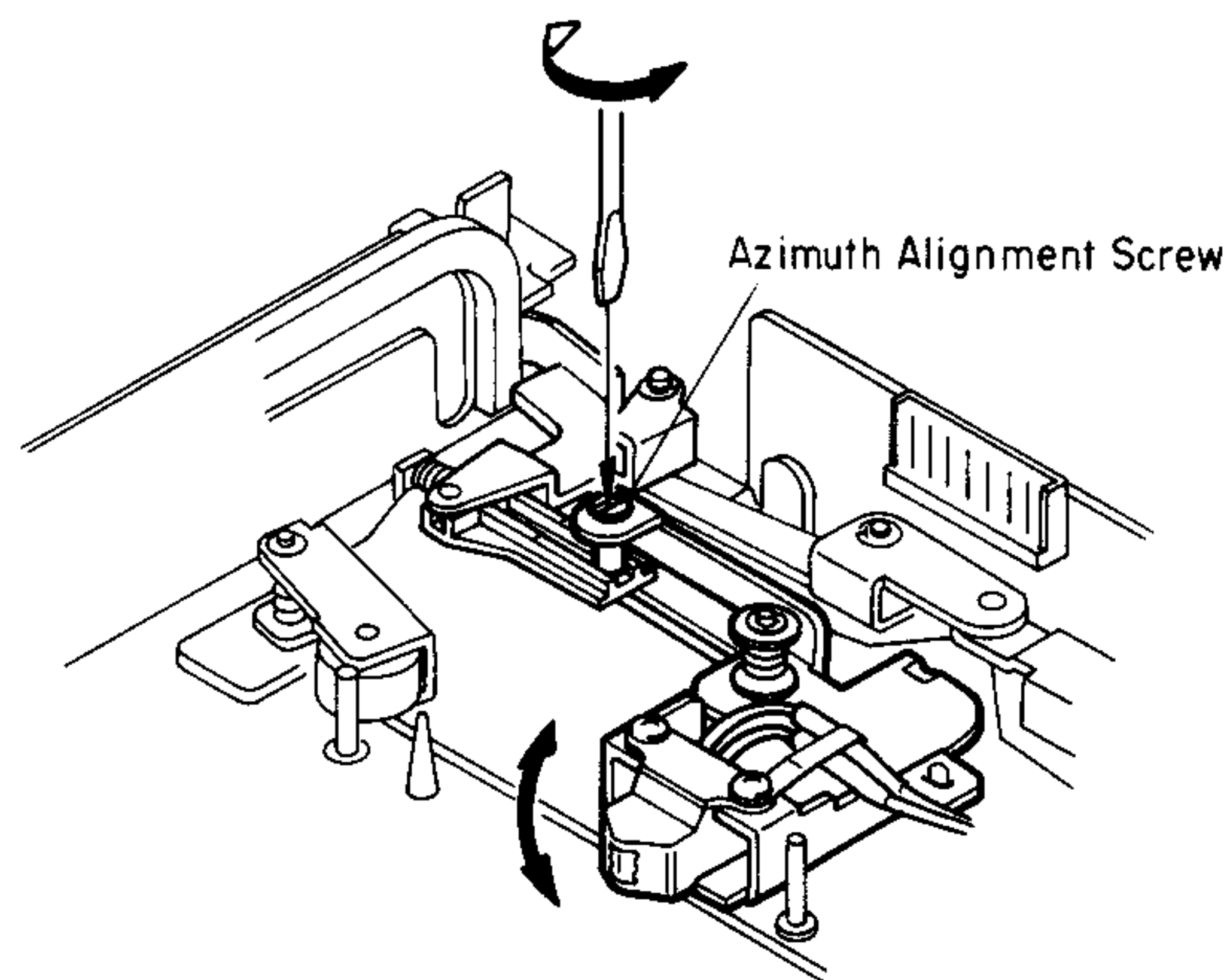


Fig. 4.5
Serial Nos.: C60501001 - 02838
(TD-700 & TD-700E)
C60701001 - 01200
(TD-700D)

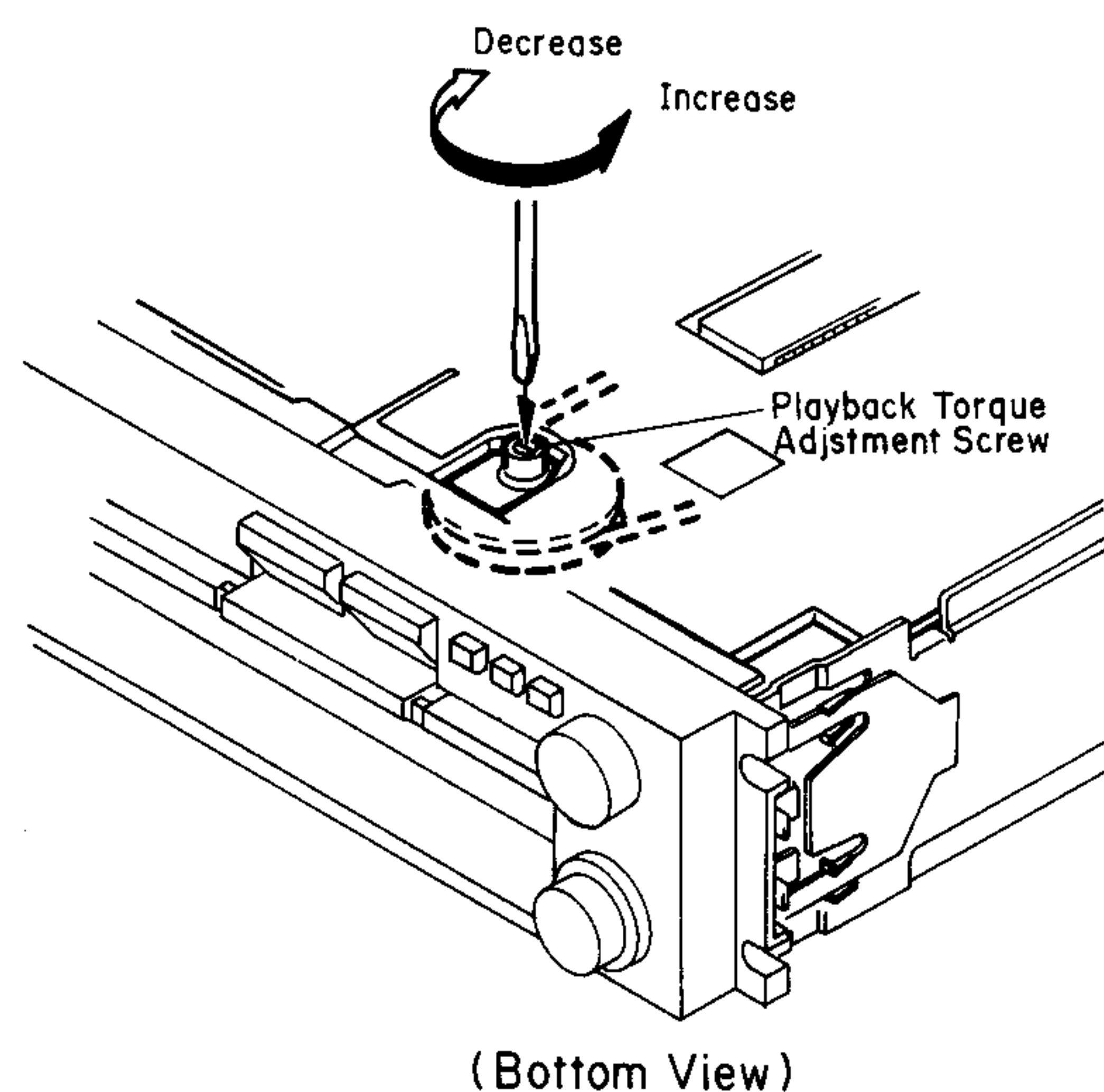


Fig. 4.6

5. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

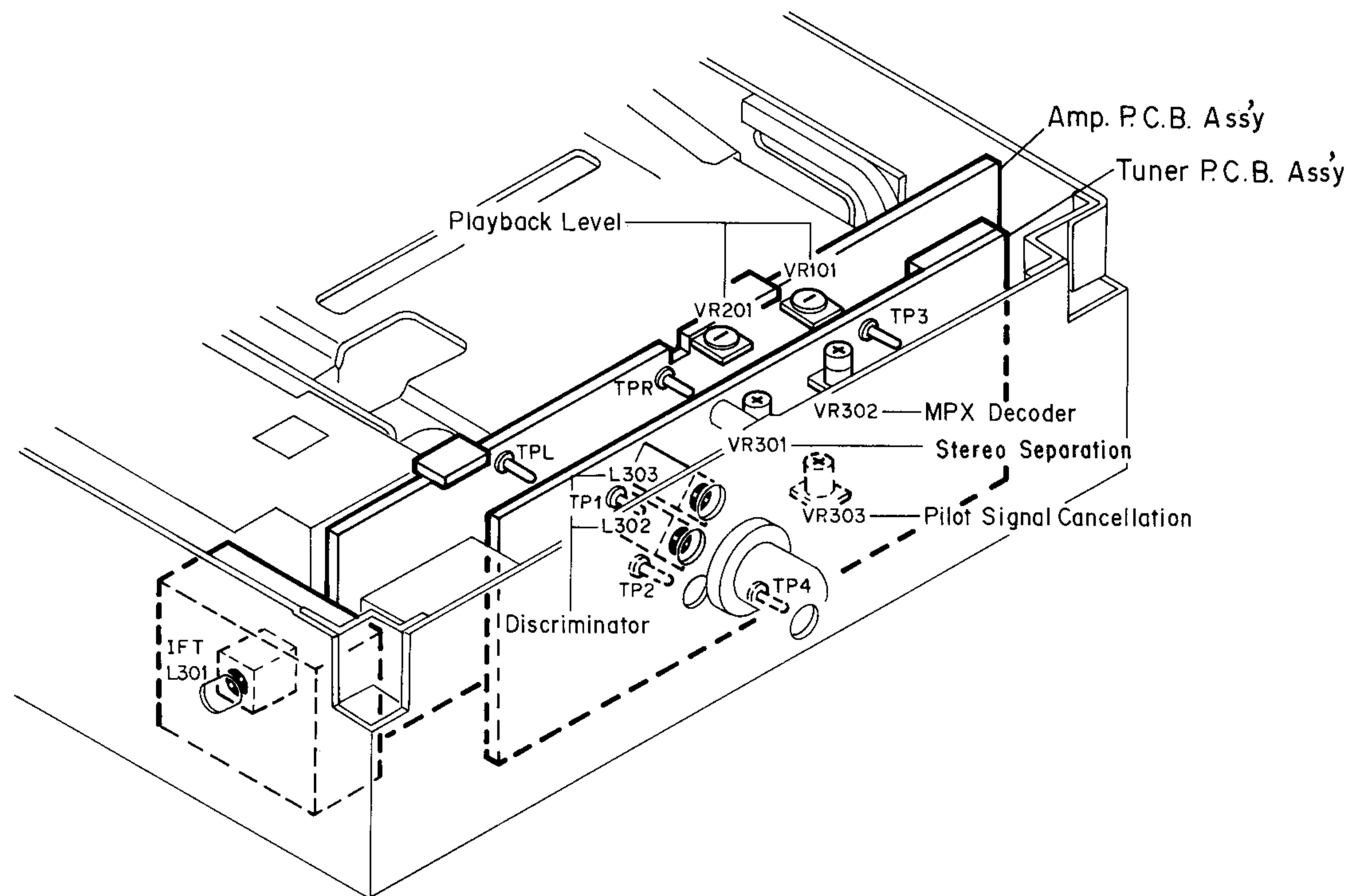


Fig. 5

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	ADJUST-MENT	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.

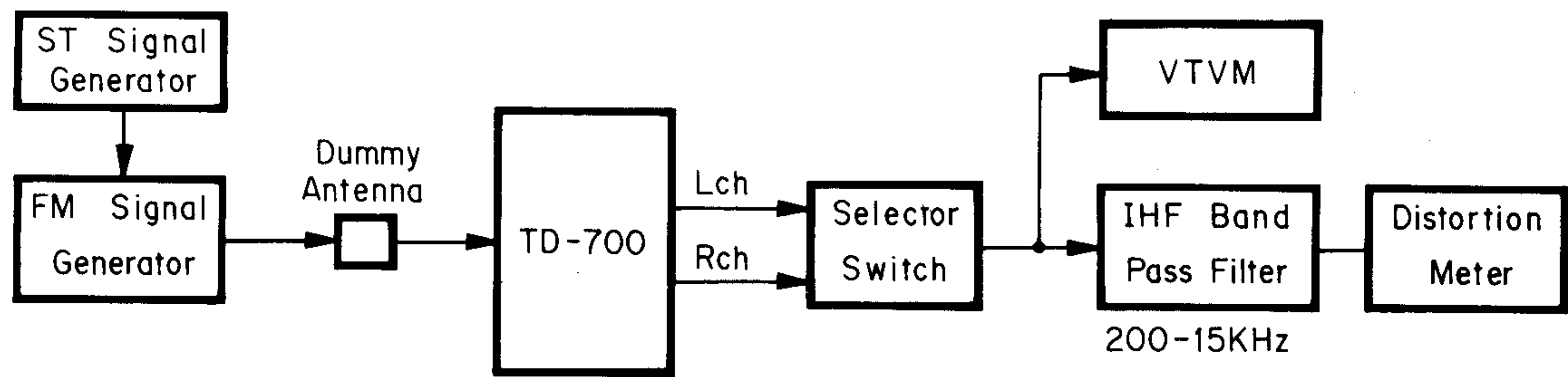


Fig. 6 Connection Diagram for FM Adjustment

6.2. Tuner Section (FM Adjustment)

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

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
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-700 (U.S.A. & Canada): Audio 1 kHz 90%, Pilot 19 kHz 10% TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 50%, Pilot 19 kHz 10% Mono TD-700 (U.S.A. & Canada): Audio 1 kHz 100% TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 60%
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.)
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.
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.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
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	- Set the modulation of the FM Generator as follows: - Cut audio signal 1 kHz - Apply only pilot 19 kHz 10% - Adjust VR303 to obtain minimum readings on the VTVM for both channels. The minimum reading should be less than -40 dB.
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	- Cut the 1 kHz modulation of R channel of the stereo modulator. Namely, apply 1 kHz signal only to L channel. - Adjust VR301 to obtain minimum reading for R channel on the VTVM. - Apply 1 kHz signal only to R channel. - Adjust VR301 to obtain minimum reading for L channel on the VTVM. - Check whether the readings in 2 and 4 are less than -30 dB. If not, repeat 1 through 4 till satisfactory results are obtained.
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: - Set the modulation signal of FM generator to 1 kHz (Mono). - Check whether the reading on the DC millivoltmeter is less than 5 mV. - If not, replace with another LA1140 and repeat above 1 and 2 after re-adjustment of Step 3.

7. MECHANISM ASS'Y AND PARTS LIST

7.1. Synthesis

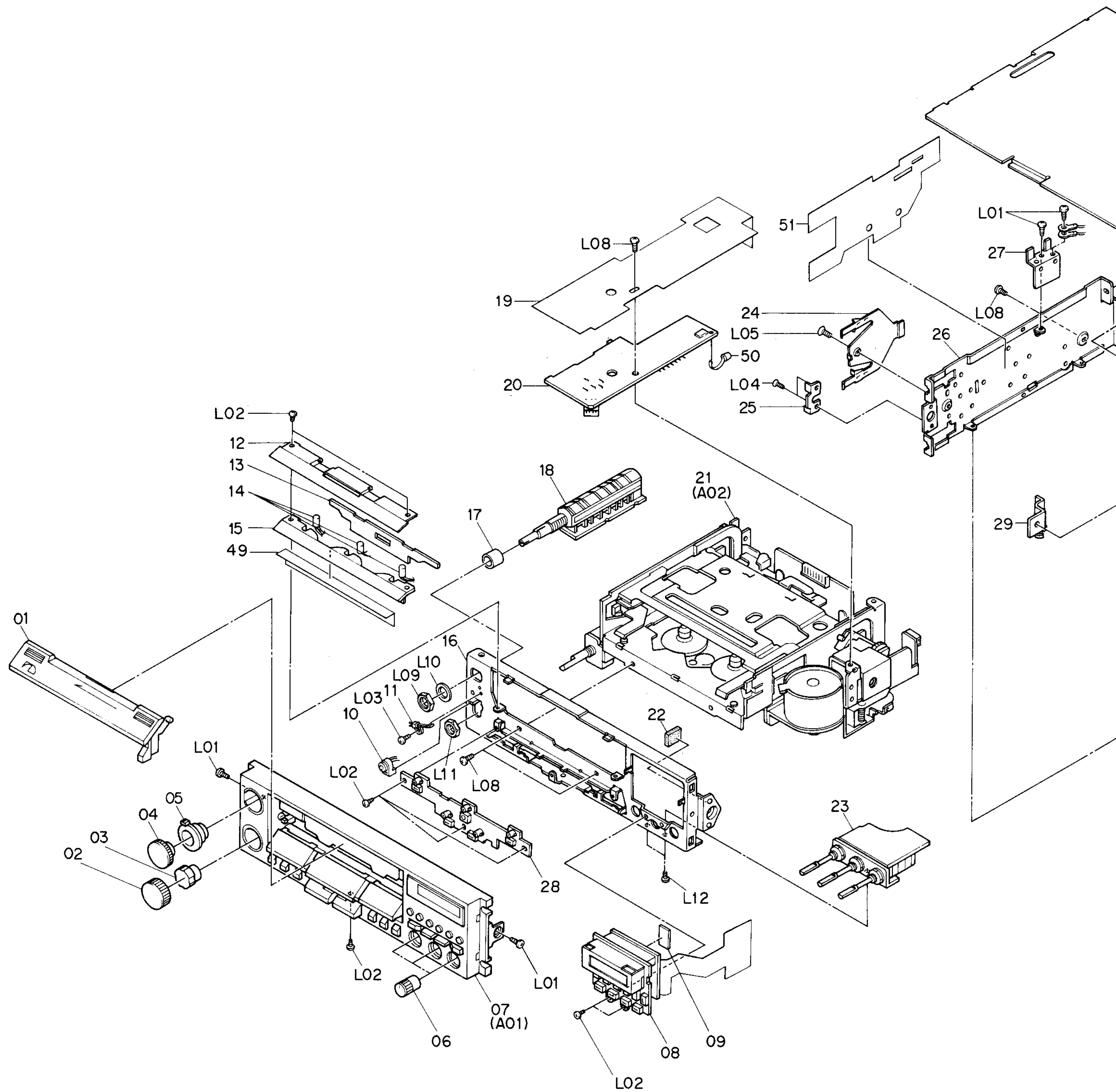
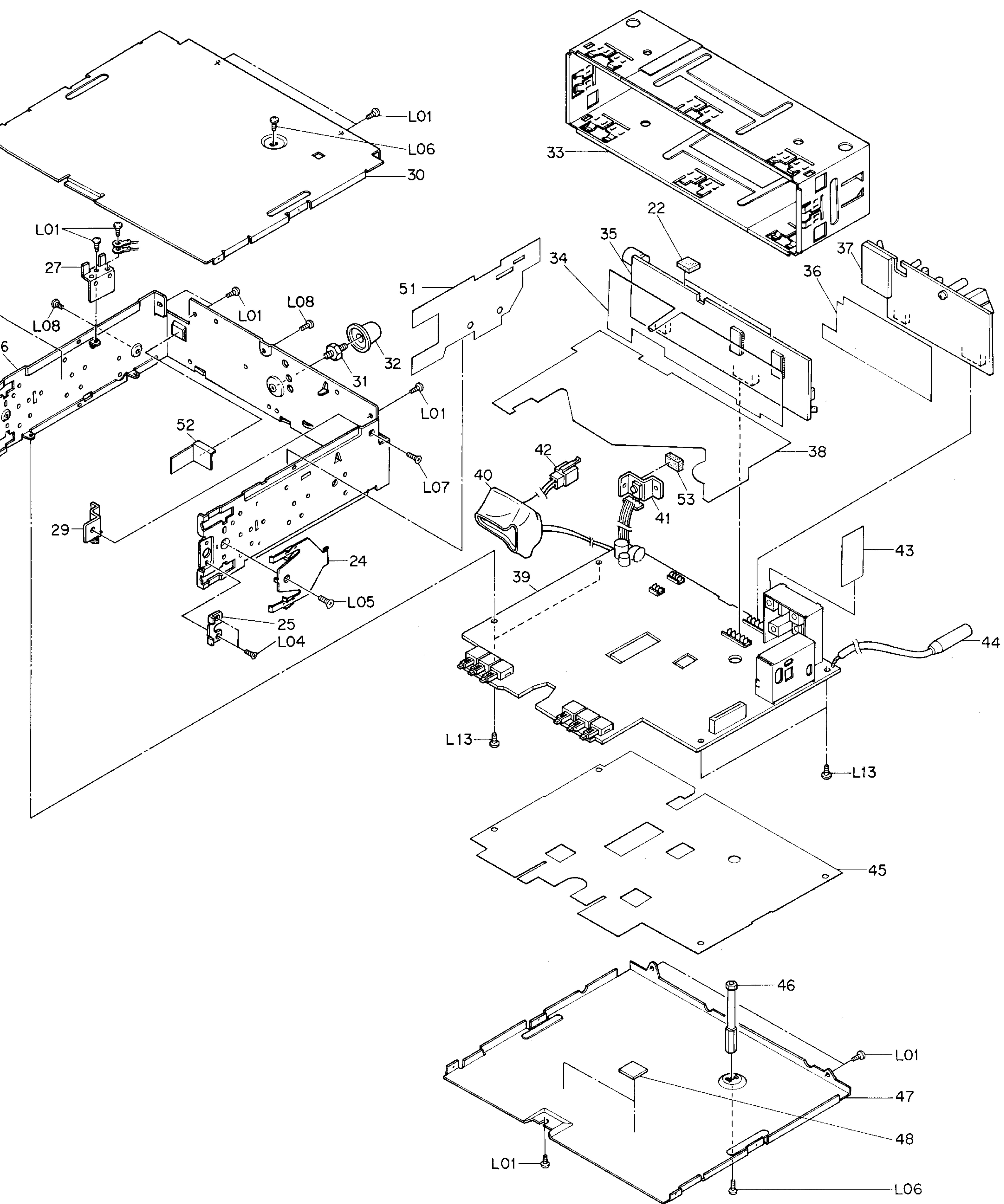


Fig. 7.1



Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
		Synthesis		37	BA05423A	Tuner P.C.B. Ass'y TD-700 (Japan)	1
01	HA04783A	Cleaning Flap Ass'y TD-700	1		BA05424B	Tuner P.C.B. Ass'y TD-700 (U.S.A. & Canada)	1
	HA04785A	Cleaning Flap Ass'y TD-700E	1		BA05458A	Tuner P.C.B. Ass'y TD-700 (Australia & Others), TD-700E & TD-700D	1
	HA04784A	Cleaning Flap Ass'y TD-700D	1		OJ04882B	Insulator A	1
02	OH04455A	Azimuth Knob Cap	1	38	BA05618A	Logic P.C.B. Ass'y TD-700 (Japan) (Serial No.: C60503399 -)	1
03	HA04674A	Azimuth Knob Ass'y	1	39	BA05619A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada) (Serial No.: C60503399 -)	1
04	HA04675A	Volume Knob Ass'y	1		BA05620A	Logic P.C.B. Ass'y TD-700 (Australia & Others) & TD-700E (Serial No.: C60503399 -)	1
05	OH04454A	Fader Knob	1		BA05622A	Logic P.C.B. Ass'y TD-700D (Serial No.: C60701251 -)	1
06	OH04457A	Tone Control Knob	3		BA05407A	Logic P.C.B. Ass'y TD-700 (Japan) (Serial Nos.: C60501001 - 03398)	1
07	HA04775A	Front Panel Ass'y TD-700 (Serial No.: C60502501 -)	1		BA05427A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada) (Serial Nos.: C60501001 - 03398)	1
	HA04776A	Front Panel Ass'y TD-700E (Serial No.: C60502501 -)	1		BA05451A	Logic P.C.B. Ass'y TD-700 (Australia & Others) & TD-700E (Serial Nos.: C60501001 - 03398)	1
	HA04778A	Front Panel Ass'y TD-700D (Serial No.: C60701201 -)	1		BA05452A	Logic P.C.B. Ass'y TD-700D (Serial Nos.: C60701001 - 01250) (Logic P.C.B. Ass'y includes the following)	1
	HA04677C	Front Panel Ass'y TD-700 (Serial Nos.: C60501001 - 02500)	1				
	HA04679C	Front Panel Ass'y TD-700E (Serial Nos.: C60501001 - 02500)	1				
	HA04681C	Front Panel Ass'y TD-700D (Serial Nos.: C60701001 - 01200)	1				
08	BA05485A	LCD Ass'y TD-700 (Japan)	1	40	(BA05501A)	(Line Filter P.C.B. Ass'y)	(1)
	BA05486A	LCD Ass'y TD-700 (U.S.A. & Canada)	1	41	(BA05497A)	(Transistor P.C.B. Ass'y)	(1)
	BA05487A	LCD Ass'y TD-700 (Australia & Others), TD-700E & TD-700D (LCD Ass'y includes the following)	1	42	(OB81268B)	(4P Terminal TD-700 & TD-700E)	(1)
09	(BA05516A)	(Buffer Amp. P.C.B. Ass'y (except for Japan))	(1)		(OB81272B)	(4P Terminal TD-700D)	(1)
10	BA05435A	Illumination Lamp Ass'y	1	43	OJ04898A	Tuner Insulator B	1
11	OB70029A	Leaf Switch	1	44	OB81270A	Antenna Cable	1
12	OH04474B	Illuminator Cover	1	45	OJ04883D	Insulator B	1
13	OB60121A	Control Lamp P.C.B.	1	46	OJ04860B	Stud	1
14	OB90030A	Lamp 14V 65mA	3	47	OH04451G	Bottom Cover	1
15	OH04670B	Illuminator B	1	48	OJ04896A	Heat Sink Sheet	2
16	OJ04851C	Front Chassis	1	49	OJ04897B	Illuminator B Sheet	1
17	OJ04853A	Spacer	1	50	OB90021A	Band EG-9	1
18	BA05422A	Volume P.C.B. Ass'y TD-700 & TD-700E	1	51	OJ04974C	Insulator C	2
	BA05466A	Volume P.C.B. Ass'y TD-700D	1	52	OJ04895C	Wire Supporter	1
19	OJ04887B	Motor P.C.B. Insulator	1	53	OJ04899A	Cushion B	1
20	BA05414B	Motor P.C.B. Ass'y	1		OB41023A	Ceramic Capacitor 0.022μ 25V (TD-700D)	1
21	CA08716A	Transport Mechanism Ass'y (Serial No.: C60503399 - (TD-700 & TD-700E)) (Serial No.: C60701251 - (TD-700D))	1	L01	OE03203A	ST2.6x5 ⊕ Binding	12
	CA08661B	Transport Mechanism Ass'y (Serial Nos.: C60501001 - 03398 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01250 (TD-700D))	1	L02	OE03204A	ST2x4 ⊕ Binding	8
22	OJ04892A	Cushion A	3	L03	OE00124A	M2x4 ⊕ Pan	1
23	BA05613A	Tone Volume P.C.B. Ass'y (Serial No.: C60503551 - (TD-700 & TD-700E)) (Serial No.: C60701301 - (TD-700D))	1	L04	OE03213A	ST2x4 ⊕ Countersunk	4
	BA05421A	Tone Volume P.C.B. Ass'y (Serial Nos.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01300 (TD-700D))	1	L05	OE00533A	M3x5 ⊕ Countersunk	2
24	OJ04873B	Sleeve Lock Plate (except for Japan)	2	L06	OE03072A	M2.6x6 ⊕ Binding	2
25	OJ04864A	Sleeve Stopper (except for Japan)	2	L07	OE00007A	M2.6x5 ⊕ Countersunk	1
26	OJ04864A	Main Chassis	1	L08	OE00791A	M2.6x5 ⊕ Binding	5
27	OH04449E	Arm Protector	1	L09	—	Nut	(1)
28	OJ04890A	Control P.C.B. Ass'y	1	L10	—	Washer	(1)
29	BA05415A	Cable Holder	1	L11	OE03240A	Nut Hex. M3	1
30	OJ04856A	Top Cover	1	L12	OE03244A	M2x4 ⊕ Flat	2
31	OH04450F	Hold Screw (except for Japan)	1	L13	OE03219A	ST2.6x6 ⊕ Binding	4
32	OJ04859B	Rubber Cap (except for Japan)	1				
33	OJ04870A	Mounting Sleeve (except for Japan)	1				
34	OJ04852D	Amp. P.C.B. Insulator	1				
35	OJ04885B	Amp. P.C.B. Ass'y (Serial No.: C60503551 - (TD-700 & TD-700E)) (Serial No.: C60701301 - (TD-700D))	1				
	BA05476B	Amp. P.C.B. Ass'y (Serial Nos.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01300 (TD-700D))	1				
36	OJ04886B	Tuner P.C.B. Insulator	1				

7.2. Front Panel Ass'y (A01)

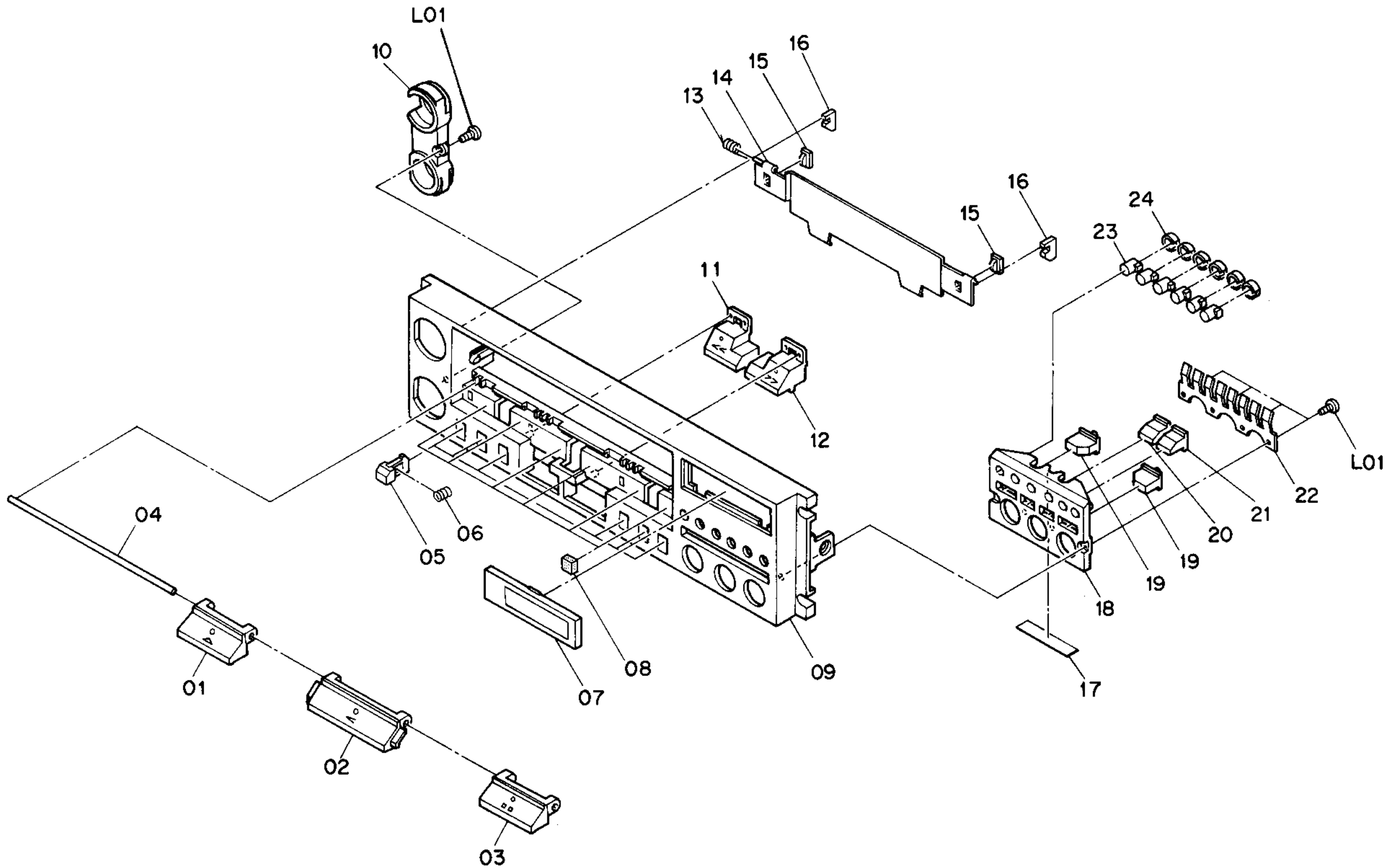


Fig. 7.2

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A01	HA04775A	Front Panel Ass'y TD-700	1	A01	HA04677C	Front Panel Ass'y TD-700	1
	HA04776A	Front Panel Ass'y TD-700E	1		HA04679C	Front Panel Ass'y TD-700E	1
	HA04778A	Front Panel Ass'y TD-700D	1		HA04681C	Front Panel Ass'y TD-700D	1
		Serial No.: C60502501 - C60701201 -				Serial Nos.: C60501001 - 02500 C60701001 - 01200	
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	OJ04868A	Shaft	1	04	OJ04868A	Shaft	1
05	HA04788A	Push Button Ass'y	6	05	HA04788A	Push Button Ass'y	6
06	OJ04849A	Push Button Spring	6	06	OJ04849A	Push Button Spring	6
07	OH04460B	LCD Lens	1	07	OH04460A	LCD Lens	1
08	OJ04878A	Cushion	6	08	OJ04878A	Cushion	6
09	OH04472C	Front Panel	1	09	OH04472C	Front Panel	1
10	OH04462B	Illuminator C	1	10	OH04462B	Illuminator C	1
11	HA04713A	FF Button Ass'y	1	11	HA04713A	FF Button Ass'y	1
12	HA04714A	Rewind Button Ass'y	1	12	HA04714A	Rewind Button Ass'y	1
13	OJ04850B	Spring	1	13	OJ04850B	Spring	1
14	OH04491C	Tape Slot Cover TD-700	1	14	OH04491C	Tape Slot Cover TD-700	1
	OH04503C	Tape Slot Cover TD-700E	1		OH04503C	Tape Slot Cover TD-700E	1
	OH04508C	Tape Slot Cover TD-700D	1		OH04508C	Tape Slot Cover TD-700D	1
15	OH04463C	Tape Slot Cover Protector	2	15	OH04463C	Tape Slot Cover Protector	2
16	OJ04902A	Guide	2	16	OJ04902A	Guide	2
17	OJ04891A	Sheet	1	17	OJ04891A	Sheet	1
18	OH04469B	Illuminator D	1	18	OH04469A	Illuminator D	1
19	OH04483A	Up/Down Button	2	19	OH04483A	Up/Down Button	2
20	OH04482A	Scan Button	1	20	OH04482A	Scan Button	1
21	OH04480A	Memory Button	1	21	OH04480A	Memory Button	1
22	OJ04848A	Button Spring	1	22	OJ04848A	Button Spring	1
23	OH04473A	Station Button	6	23	OH04473A	Station Button	6
24	OJ04846B	Reflector	6	24	OJ04846B	Reflector	6
L01	OE00961A	BT2x5 ⊕ Binding	5	L01	OE00961A	BT2x5 ⊕ Binding	5

7.3. Transport Mechanism Ass'y (A02)

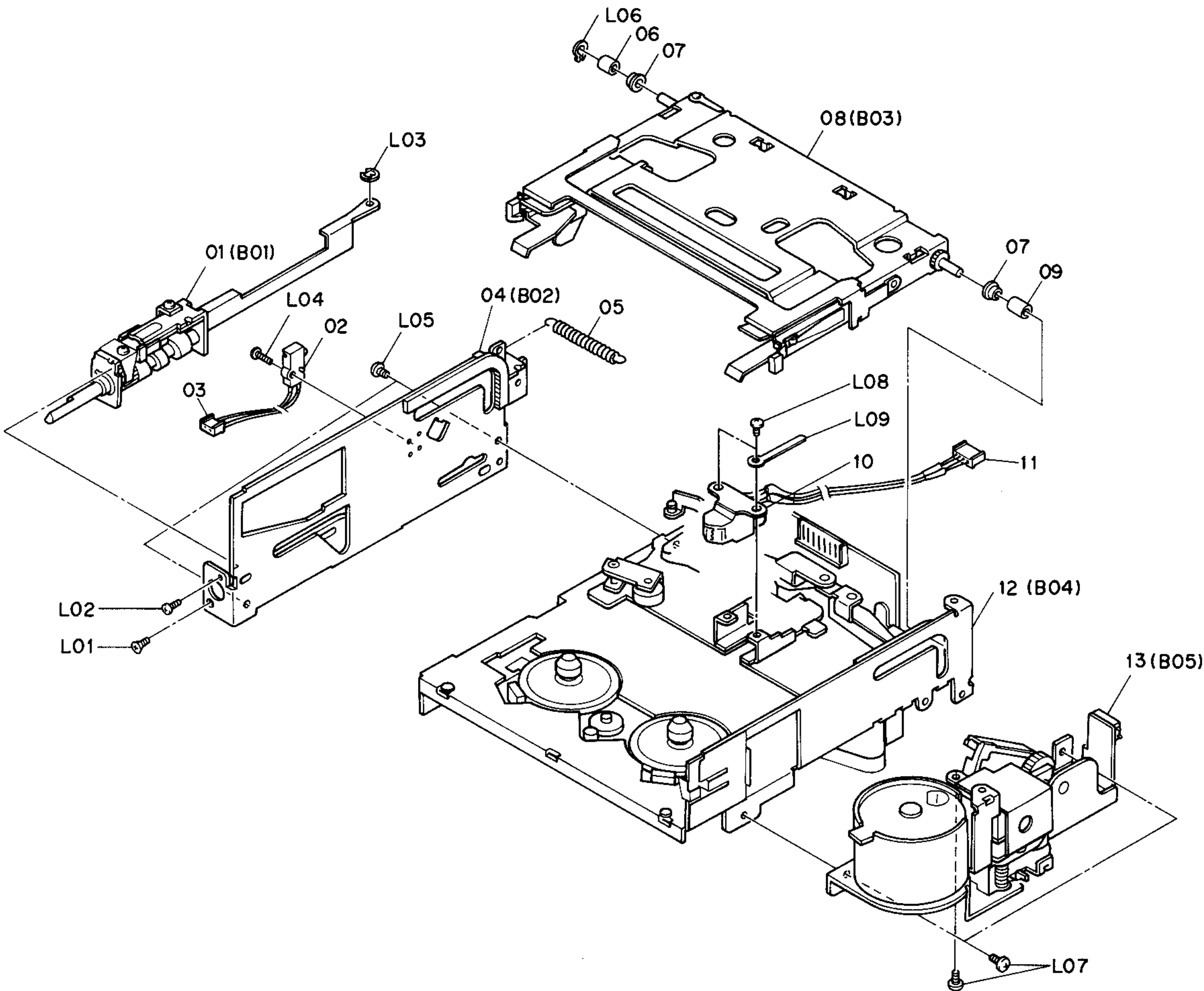


Fig. 7.3

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A02	CA08716A	Transport Mechanism Ass'y Serial No.: C60503399 - C60701251 -	1	A02	CA08661B	Transport Mechanism Ass'y Serial Nos.: C60501001 - 03398 C60701001 - 01250	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	2P Coupler	1	03	0B82299B	2P 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	CA08717A	Transport Mechanism Sub Ass'y	1	12	CA08663A	Transport Mechanism Sub Ass'y	1
13	CA08667A	Loading Mechanism Ass'y	1	13	CA08667A	Loading Mechanism Ass'y	1
L01	0E03189A	M2x3 � Countersunk (Black Chromate)	1	L01	0E03189A	M2x3 � Countersunk (Black Chromate)	1
L02	0E03216A	M1.4x2.5 � Pan (Black Chromate)	1	L02	0E03216A	M1.4x2.5 � Pan (Black Chromate)	1
L03	0E00222A	E-Ring 2mm	1	L03	0E00222A	E-Ring 2mm	1
L04	0E03185A	M1.7x6 � Pan	1	L04	0E03185A	M1.7x6 � Pan	1
L05	0E03186A	M2.6x2.8 � Pan (Black Chromate)	2	L05	0E03186A	M2.6x2.8 � Pan (Black Chromate)	2
L06	0E00839A	Grip 2.5mm	1	L06	0E00839A	Grip 2.5mm	1
L07	0E00120A	M2.6x3 � Pan (Black Chromate)	3	L07	0E00120A	M2.6x3 � Pan (Black Chromate)	3
L08	0E00783A	M2x3 � Pan (Black Chromate)	2	L08	0E00783A	M2x3 � Pan (Black Chromate)	2
L09	0C08858A	Wire Clamper	1	L09	0C08858A	Wire Clamper	1

7.4. Azimuth Controller Ass'y (B01)

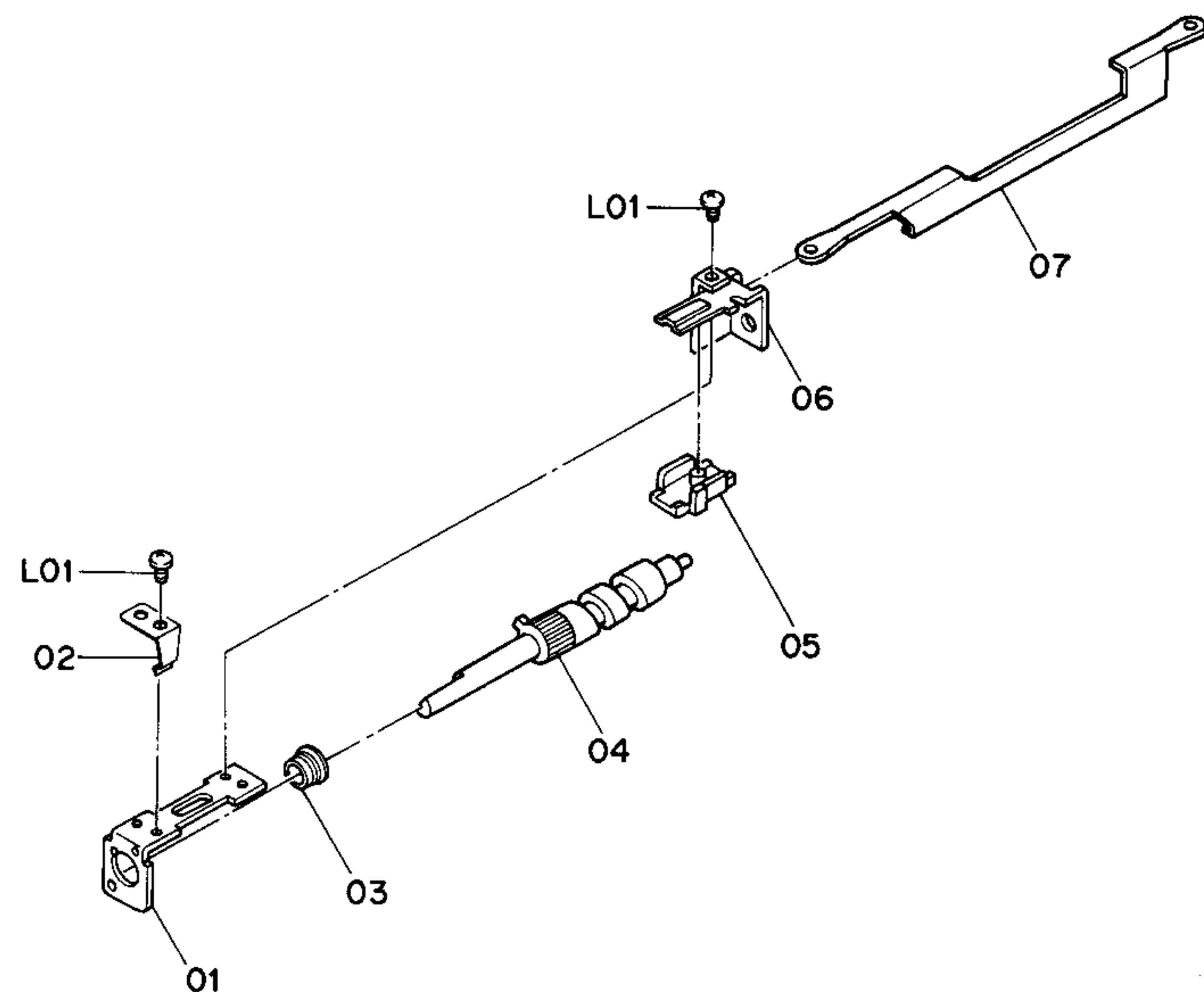


Fig. 7.4

7.5. Side Chassis Ass'y (B02)

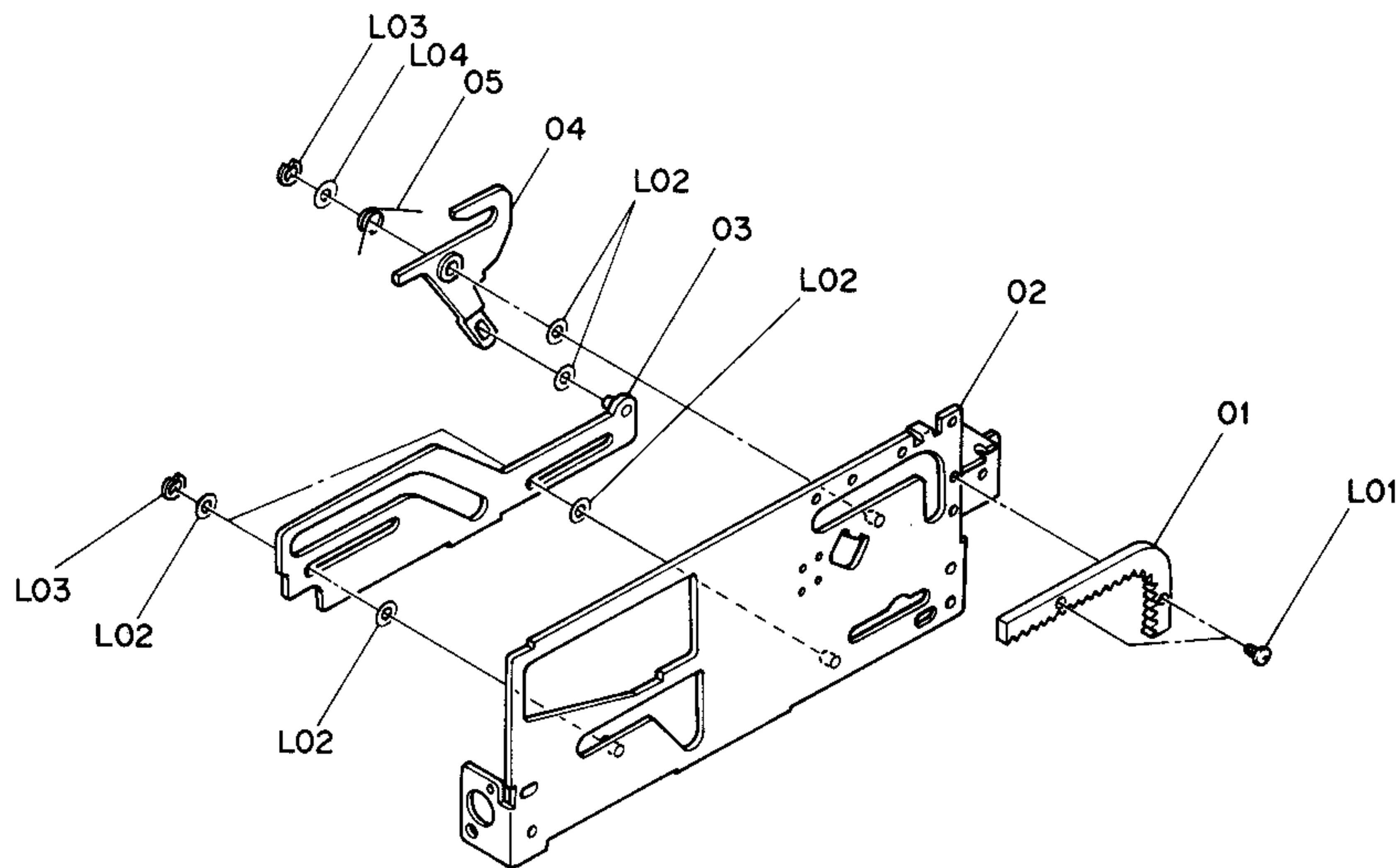


Fig. 7.5

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B01	CA08687A	Azimuth Controller Ass'y Serial No.: C60501001 - C60701001 -	1	B02	CA08686A	Side Chassis Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08850B	Azimuth Cam Holder A	1	01	OC08828B	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	OE03180A	Mylar Washer 2.6mm 2.6x6x0.25	1

7.6. Cassette Holder Ass'y (B03)

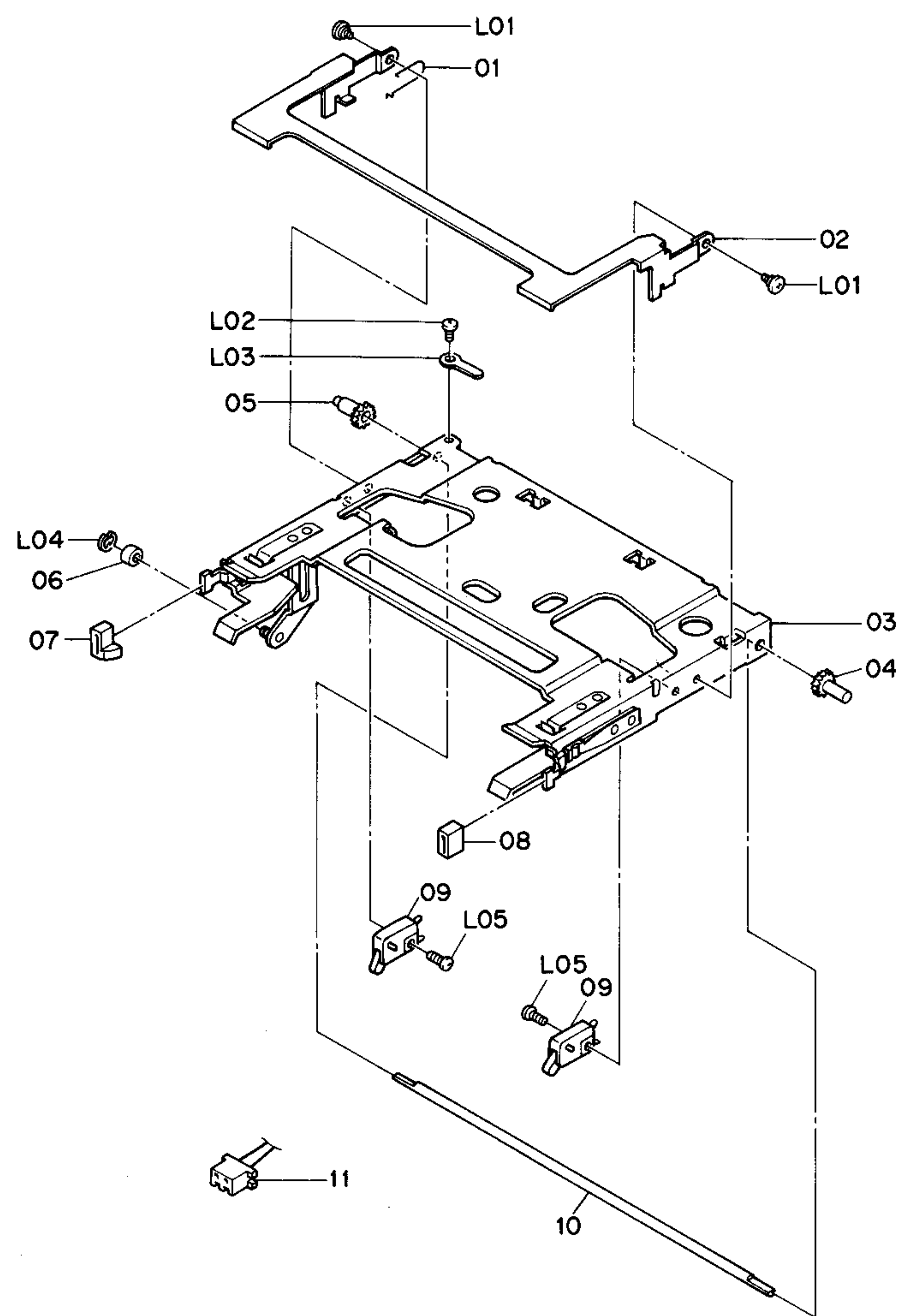


Fig. 7.6

Schematic Ref. No.	Part No.	Description	Q'ty
B03	CA08665A	Cassette Holder Ass'y Serial No.: C60501001 - C60701001 -	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 Ass'y (B04)

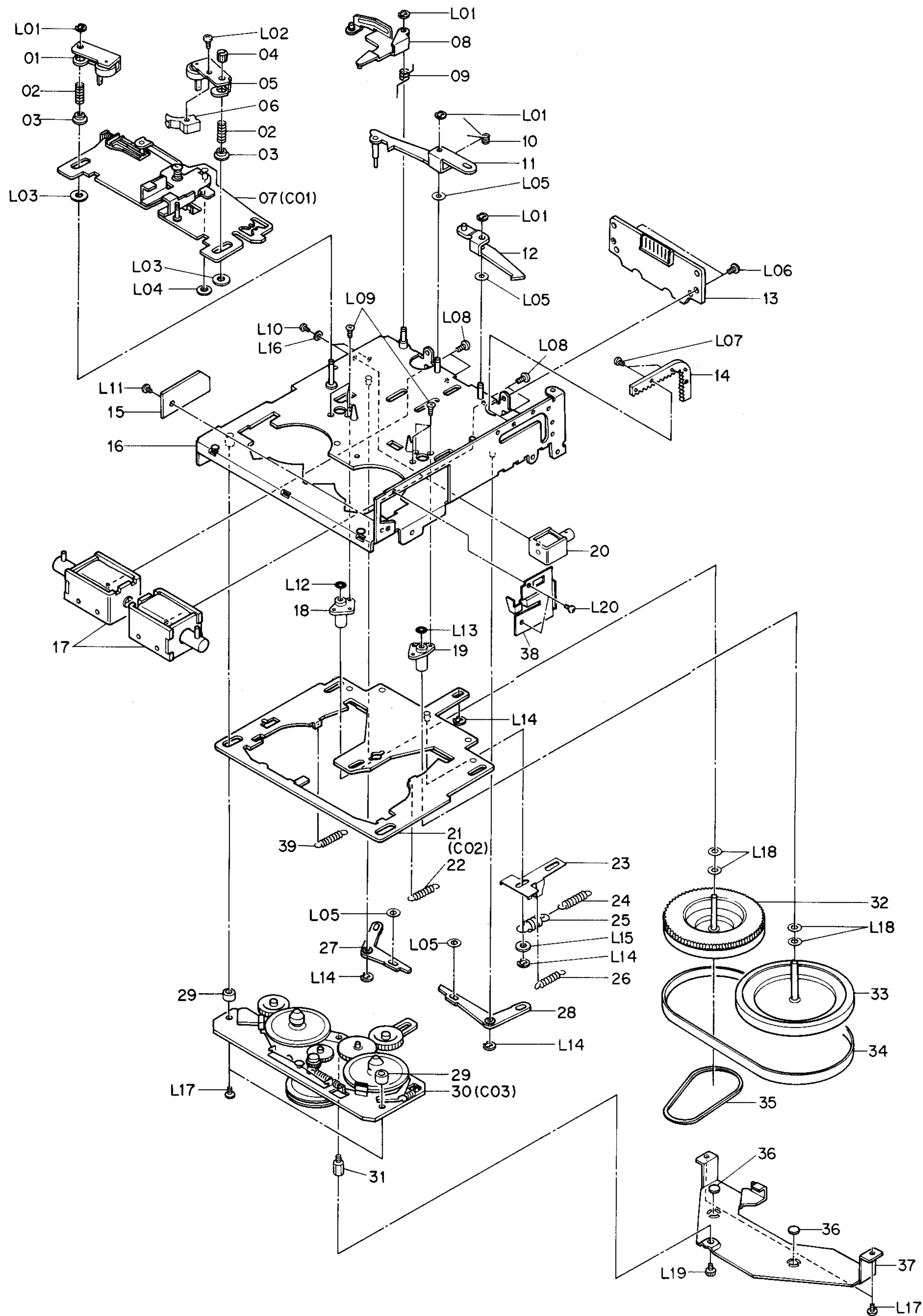


Fig. 7.7

Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
B04	CA08717A	Transport Mechanism Sub Ass'y Serial No.: C60503399 - C60701251 -	1	B04	CA08663A	Transport Mechanism Sub Ass'y Serial Nos.: C60501001 - 03398 C60701001 - 01250	1
01	CA08617B	Take-up Pressure Roller Arm Sub Ass'y	1	01	CA08617B	Take-up Pressure Roller Arm Sub Ass'y	1
02	0C08878A	Pressure Roller Adjust Spring	2	02	0C08878A	Pressure Roller Adjust Spring	2
03	0C08689A	Roller Arm Sleeve	2	03	0C08689A	Roller Arm Sleeve	2
04	0C08694A	Pressure Roller Height Adjust Nut	1	04	0C08694A	Pressure Roller Height Adjust Nut	1
05	CA08618A	Supply Pressure Roller Arm Sub Ass'y	1	05	CA08618A	Supply Pressure Roller Arm Sub Ass'y	1
06	0C08756A	Tape Guide		06	0C08756A	Tape Guide	
07	CA08679A	Head Slider Ass'y	1	07	CA08679A	Head Slider Ass'y	1
08	CA08656A	Azimuth Arm Ass'y	1	08	CA08656A	Azimuth Arm Ass'y	1
09	0C08891A	Azimuth Arm Spring	1	09	0C08891A	Azimuth Arm Spring	1
10	0C08867A	Lock Plate Spring	1	10	0C08867A	Lock Plate Spring	1
11	CA08622D	Play Lock Plate Ass'y	1	11	CA08622D	Play Lock Plate Ass'y	1
12	CA08623C	Rew Lock Plate Ass'y	1	12	CA08623C	Rew Lock Plate Ass'y	1
13	BA05430A	Solenoid P.C.B. Ass'y	1	13	BA05430A	Solenoid P.C.B. Ass'y	1
14	0C08829A	Rack Gear R	1	14	0C08829A	Rack Gear R	1
15	0C08817B	Guide Plate	1	15	0C08817B	Guide Plate	1
16	CA08657F	Mechanism Chassis Ass'y	1	16	CA08657F	Mechanism Chassis Ass'y	1
17	0B90027B	Main Solenoid G-825	2	17	0B90027B	Main Solenoid G-825	2
18	CA08629A	Take-up Flange Metal Ass'y	1	18	CA08629A	Take-up Flange Metal Ass'y	1
19	CA08630A	Supply Flange Metal Ass'y	1	19	CA08630A	Supply Flange Metal Ass'y	1
20	0B90028B	Lock Solenoid G-413	1	20	0B90028B	Lock Solenoid G-413	1
21	CA08678A	Master Plate Ass'y	1	21	CA08678A	Master Plate Ass'y	1
22	0C08884A	Pressure Roller Spring	1	22	0C08884A	Pressure Roller Spring	1
23	0C08679D	Centering Plate	1	23	0C08679D	Centering Plate	1
24	0C08881A	Control Plate Spring	1	24	0C08881A	Control Plate Spring	1
25	0C08880B	Head Base Spring	1	25	0C08880B	Head Base Spring	1
26	0C08877A	Centering Spring	1	26	0C08877A	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	0C08703A	Slide Base Collar	2	29	0C08703A	Slide Base Collar	2
30	CA08718A	Reel Mechanism Ass'y	1	30	CA08670A	Reel Mechanism Ass'y	1
31	0C08807A	Thrust Stud	1	31	0C08807A	Thrust Stud	1
32	CA08609C	Take-up Flywheel Ass'y	1	32	CA08610B	Supply Flywheel Ass'y	1
33	CA08610B	Supply Flywheel Ass'y	1	33	CA08609C	Take-up Flywheel Ass'y	1
34	0C08781A	Capstan Belt	1	34	0C08781A	Capstan Belt	1
35	0C08783A	V. Pulley Belt	1	35	0C08783A	V. Pulley Belt	1
36	0C08692A	Thrust Plate	2	36	0C08692A	Thrust Plate	2
37	0C08752B	Flywheel Plate B	1	37	0C08752B	Flywheel Plate B	1
38	0J04901B	Cover Plate	1	38	0J04901B	Cover Plate	1
39	0C08998A	Take-up Pressure Roller Spring	1	39	0C08998A	Take-up Pressure Roller Spring	1
L01	0E00042A	E-Ring 1.5mm	4	L01	0E00042A	E-Ring 1.5mm	4
L02	0E00841A	BT2x4 ⊕ Pan	1	L02	0E00841A	BT2x4 ⊕ Pan	1
L03	0C08826C	Slide Washer A	2	L03	0C08826C	Slide Washer A	2
L04	0C08827B	Slide Washer B	1	L04	0C08827B	Slide Washer B	1
L05	0E03196A	Mylar Washer 2.6mm 2.6x5x0.125	4	L05	0E03196A	Mylar Washer 2.6mm 2.6x5x0.125	4
L06	0E03197A	M2.6x4 ⊕ Pan (Black Chromate)	2	L06	0E03197A	M2.6x4 ⊕ Pan (Black Chromate)	2
L07	0E03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	2	L07	0E03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	2
L08	0E03241A	M3x4 ⊕ Binding	4	L08	0E03241A	M3x4 ⊕ Binding	4
L09	0E03189A	M2x3 ⊕ Countersunk (Black Chromate)	6	L09	0E03189A	M2x3 ⊕ Countersunk (Black Chromate)	6
L10	0E03246A	M1.6x3 ⊕ Pan (Black Chromate)	2	L10	0E03246A	M1.6x3 ⊕ Pan (Black Chromate)	2
L11	0E03186A	M2.6x2.8 ⊕ Pan (Black Chromate)	1	L11	0E03186A	M2.6x2.8 ⊕ Pan (Black Chromate)	1
L12	0E03200A	Nylon Washer 2mm 2.0x3.5x0.13	1	L12	0E03200A	Nylon Washer 2mm 2.0x3.5x0.13	1
L13	0E03179A	Nylon Washer 2.3mm 2.3x3.5x0.13	1	L13	0E03179A	Nylon Washer 2.3mm 2.3x3.5x0.13	1
L14	0E00222A	E-Ring 2mm	4	L14	0E00222A	E-Ring 2mm	4
L15	0E03206A	Nylon Washer 3.1x6x0.5	1	L15	0E03206A	Nylon Washer 3.1x6x0.5	1
L16	0E03199A	Washer 1.8x3.8x0.3 (Nickel)	2	L16	0E03199A	Washer 1.8x3.8x0.3 (Nickel)	2
L17	0E00120A	M2.6x3 ⊕ Pan	4	L17	0E00120A	M2.6x3 ⊕ Pan	4
L18	0E03062A	Mylar Washer 2.6mm 2.6x5x0.25	4	L18	0E03062A	Mylar Washer 2.6mm 2.6x5x0.25	4
L19	0E03242A	M2.6x3 Hex. Socket Head	1	L19	0E03242A	M2.6x3 Hex. Socket Head	1
L20	0E03243A	M2x2.5 ⊕ Pan	2	L20	0E03243A	M2x2.5 ⊕ Pan	2

7.8. Loading Mechanism Ass'y (B05)

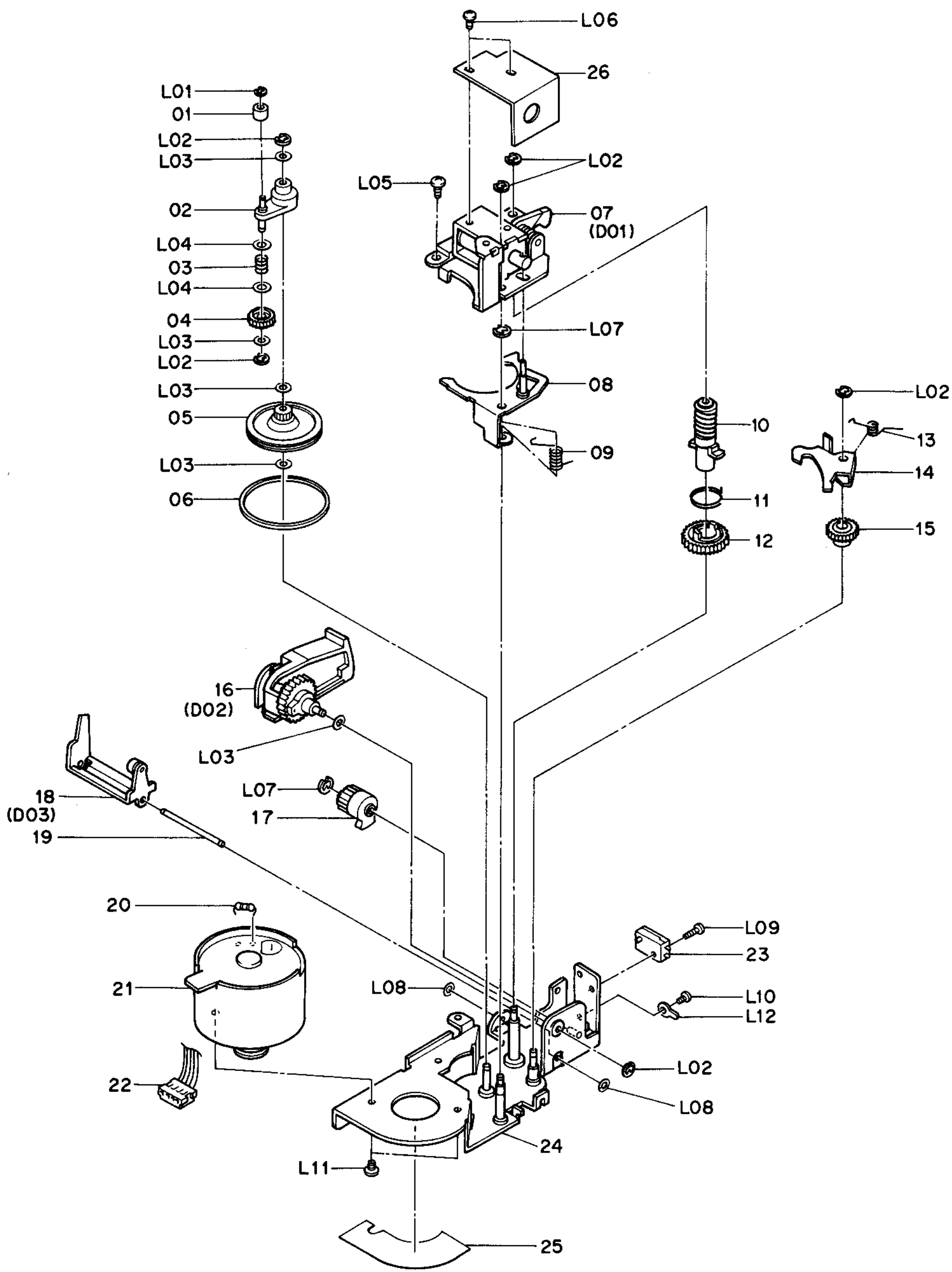


Fig. 7.8

Schematic Ref. No.	Part No.	Description	Q'ty
B05	CA08667A	Loading Mechanism Ass'y Serial No.: C60501001 - C60701001 -	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	OB09629A	Carbon Resistor 10K 1/6W J	1
21	CA08652B	Main Motor Ass'y	1
22	OB82308A	4P-H Connector	1
23	OB70001A	Loading Switch	1
24	CA08653C	Motor Chassis Ass'y	1
25	OJ04893A	Tone Volume Insulator	1
26	OC08893B	Solenoid Protector	1
L01	OE03182A	E-Ring 0.8mm	1
L02	OE00042A	E-Ring 1.5mm	6
L03	OE03061A	Mylar Washer 2.1mm 2.1x4x0.25	5
L04	OE03209A	Mylar Washer 3.1mm 3.1x4.9x0.125	2
L05	OE00226A	M2.6x4 ⊕ Pan	1
L06	OE00922A	M2x3 ⊕ Pan	2
L07	OE00222A	E-Ring 2mm	2
L08	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	2
L09	OE03185A	M1.7x6 ⊕ Pan (Black Chromate)	1
L10	OE03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	1
L11	OE03186A	M2.6x2.8 ⊕ Pan (Black Chromate)	2
L12	OE00905A	Earth Lug B	1
C01	CA08679A	Head Slider Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08879A	Head Hold Spring	1
02	OC08688B	Azimuth Screw	1
03	OC08749B	Head Mount Plate	1
04	OC08466A	Slide Cam Spring	1
05	OC08708A	Azimuth Adjust Plate	1
06	CA08635D	Head Base Ass'y	1
L01	OE00042A	E-Ring 1.5mm	1
L02	OE03191A	Washer 2.5mm 2.5x6.5x0.5	2
L03	OE03272A	PL1.7x3.5 ⊕ Pan	1
C02	CA08678A	Master Plate Ass'y Serial No.: C60501001 - C60701001 -	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	OE00222A	E-Ring 2mm	2
L02	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	2
L03	OE00042A	E-Ring 1.5mm	1

7.9. Head Slider Ass'y (C01)

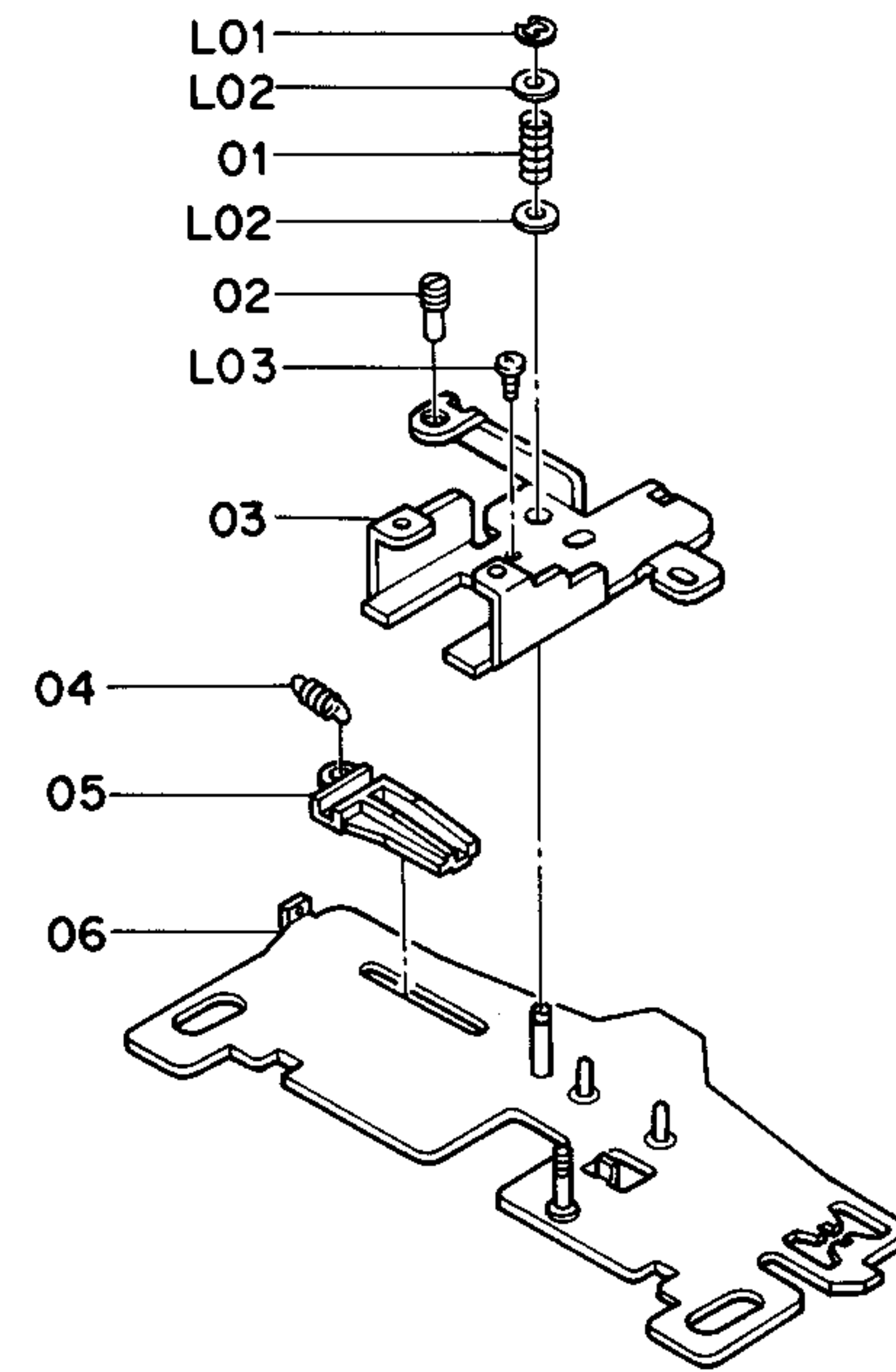


Fig. 7.9

7.10. Master Plate Ass'y (C02)

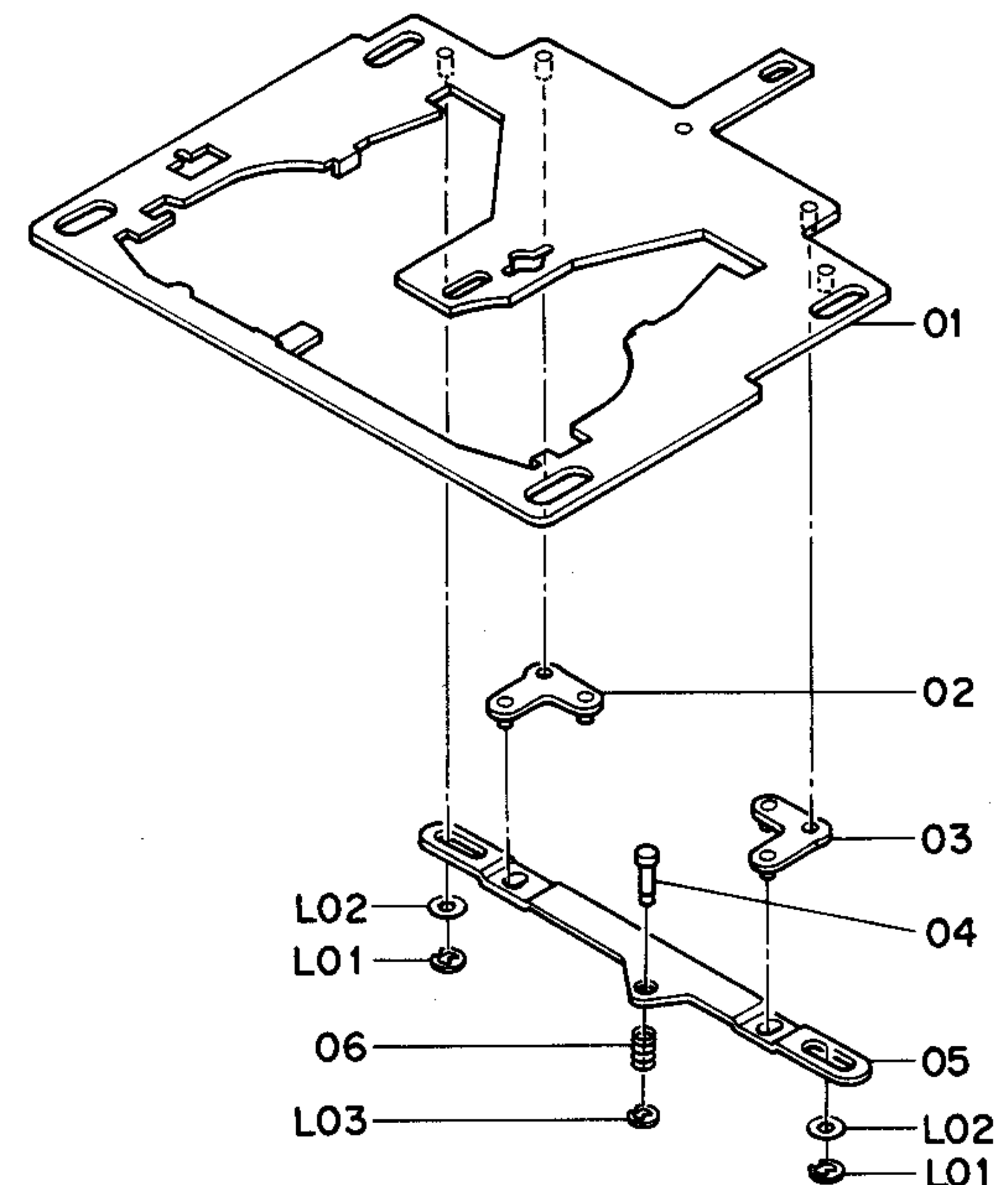


Fig. 7.10

7.11. Reel Mechanism Ass'y (C03)

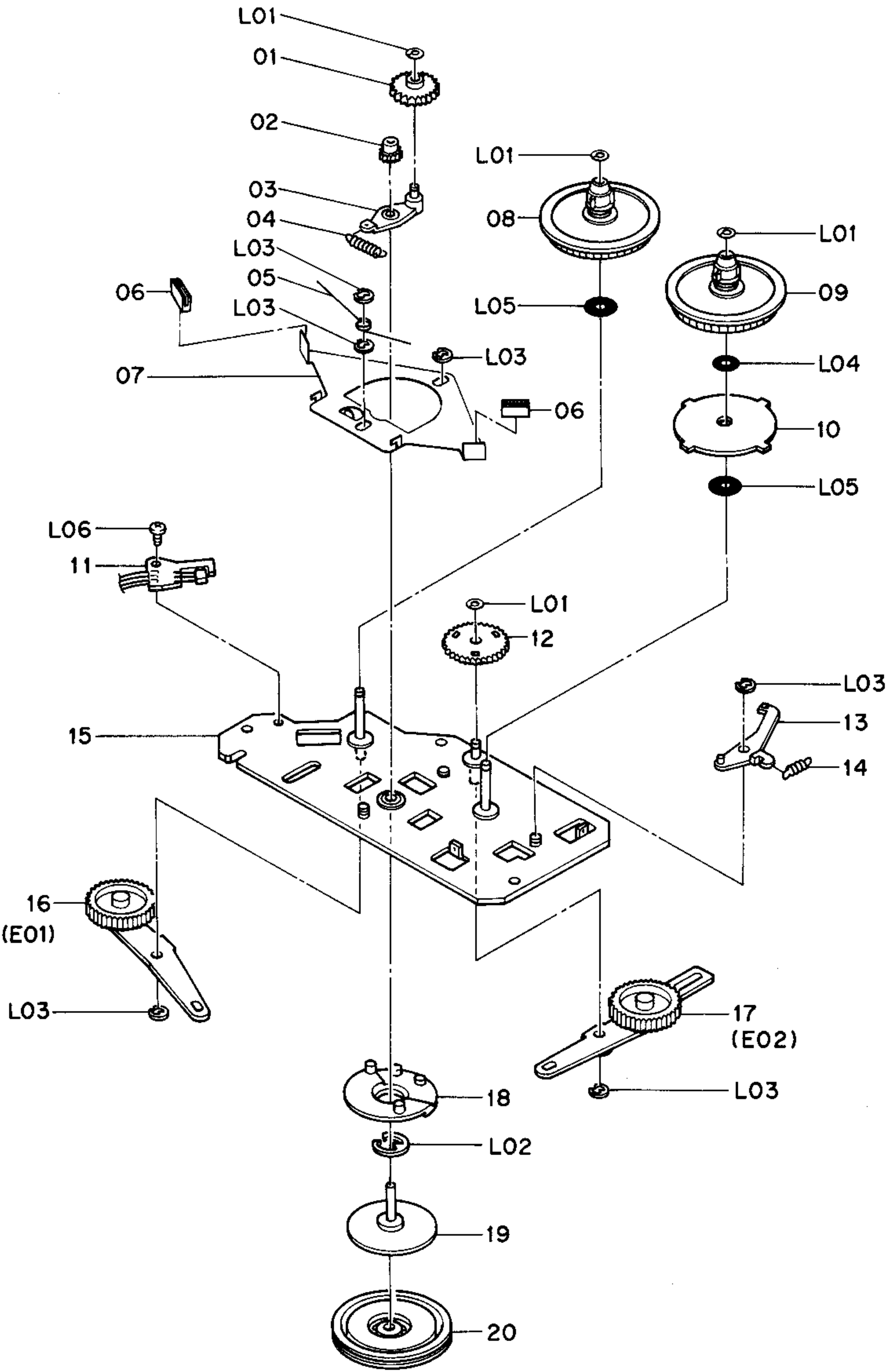


Fig. 7.11

7.12. Solenoid Plate Ass'y (D01)

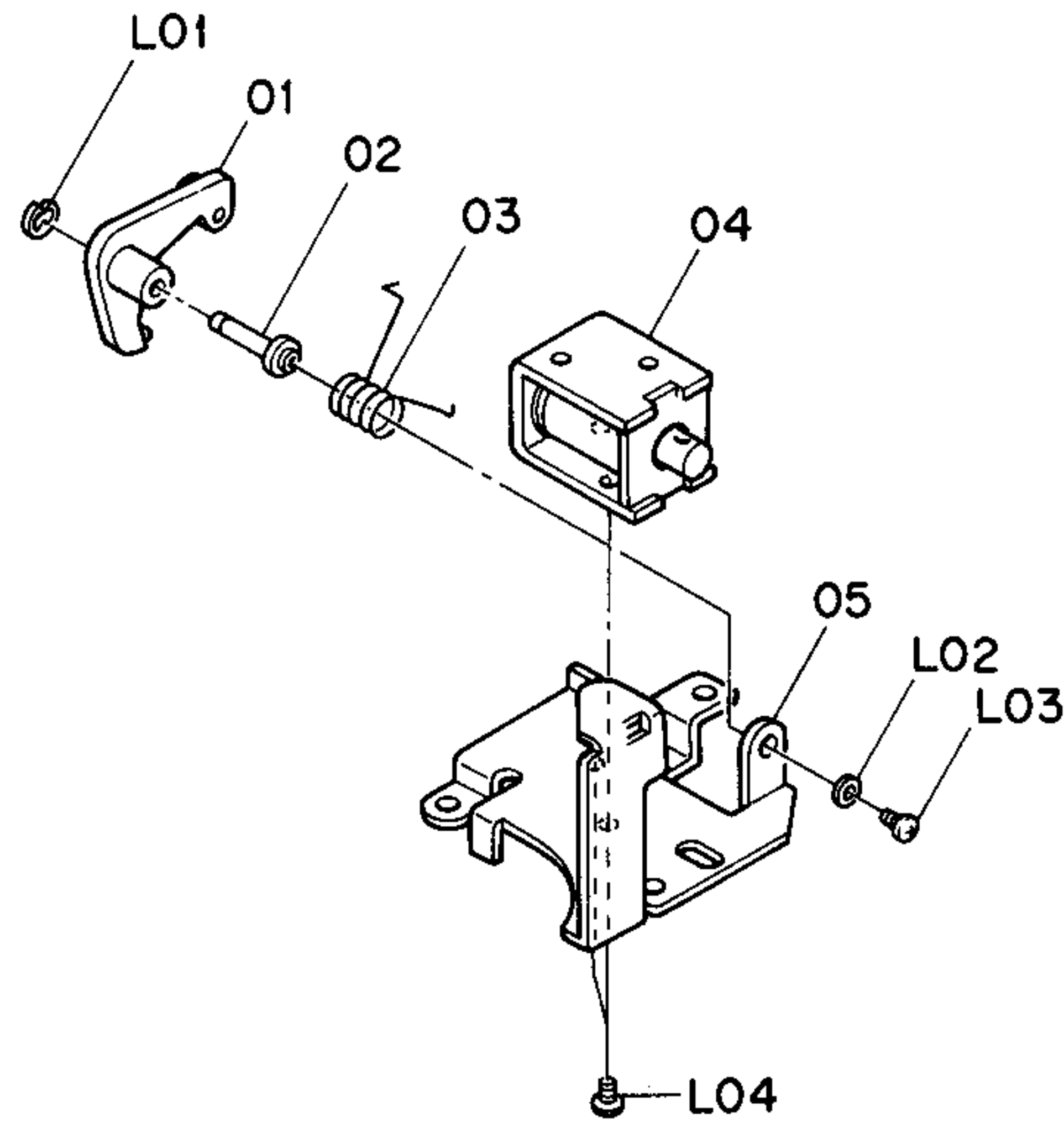


Fig. 7.12

7.13. Loading Arm Ass'y (D02)

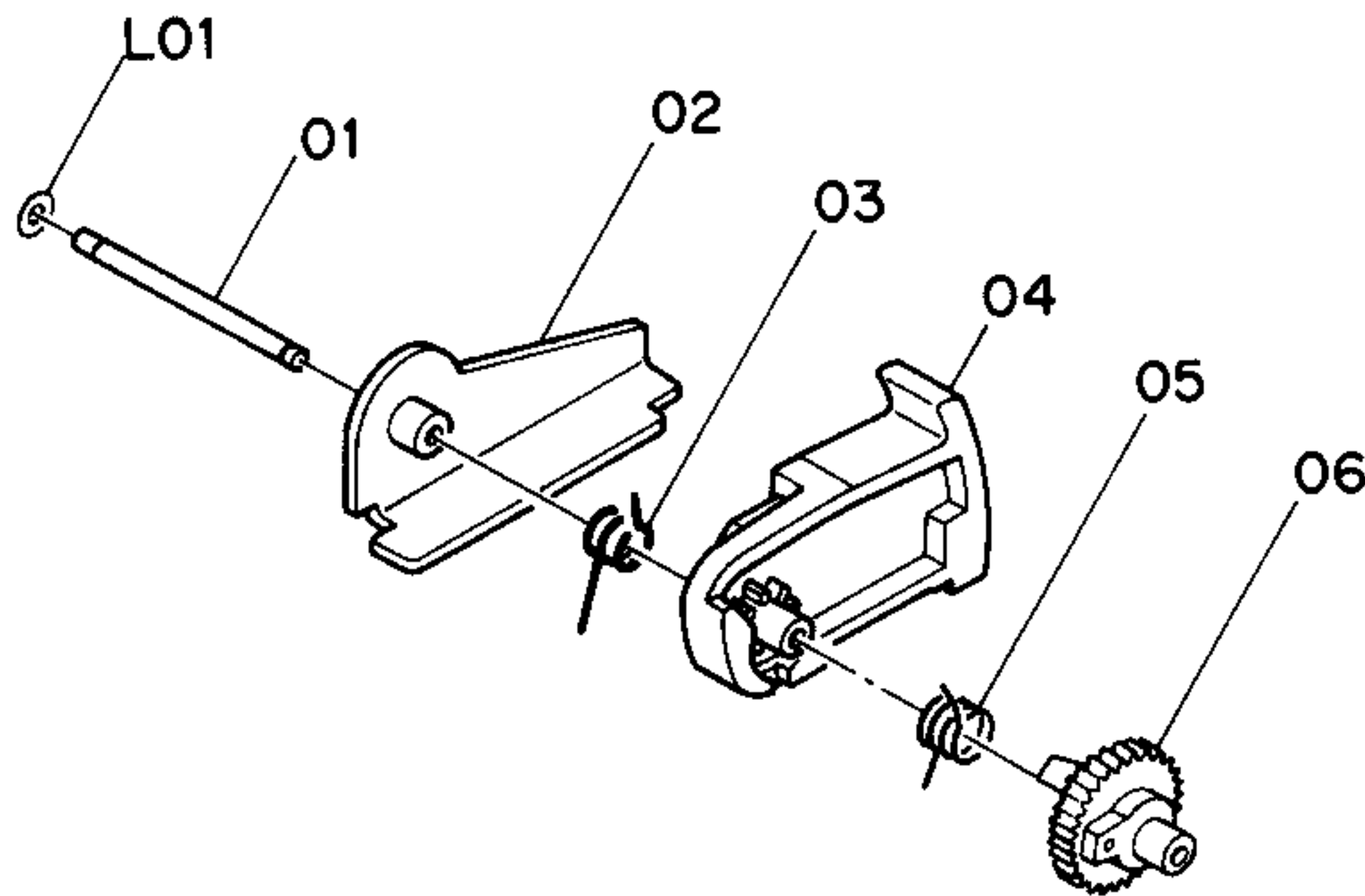


Fig. 7.13

7.14. Head Base Arm Ass'y (D03)

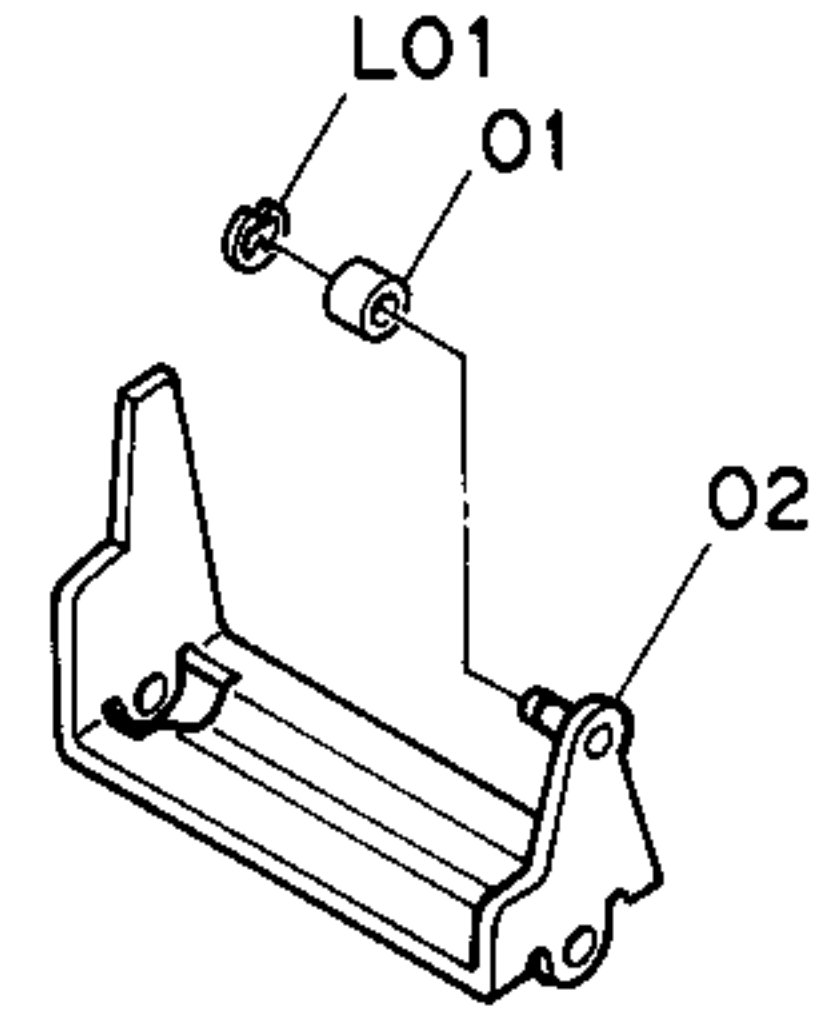


Fig. 7.14

7.15. FF Arm Ass'y (E01)

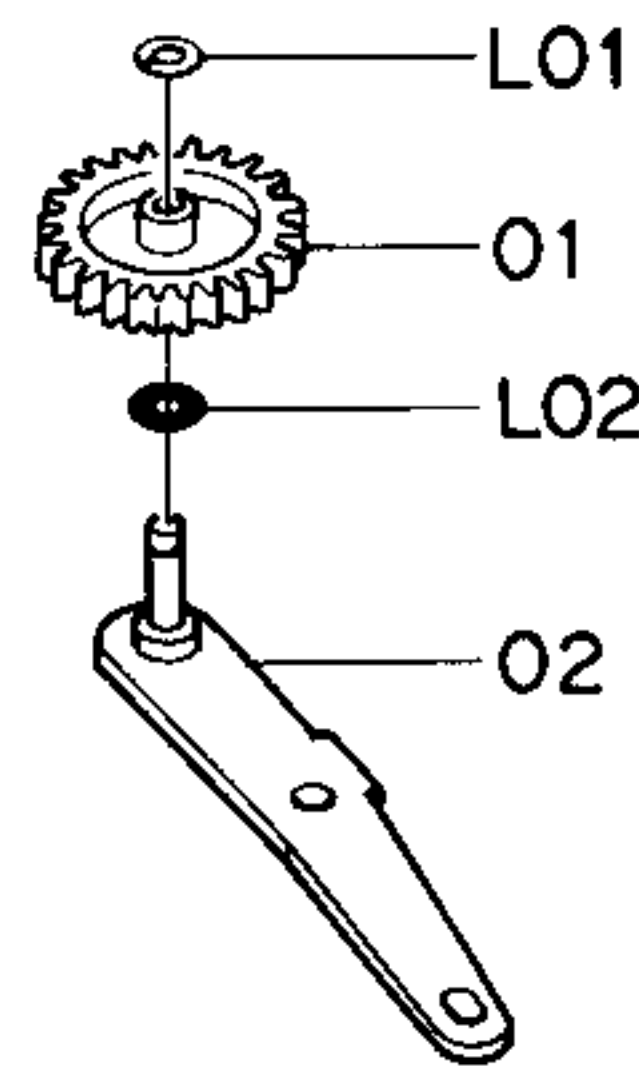


Fig. 7.15

7.16. Rewind Arm Ass'y (E02)

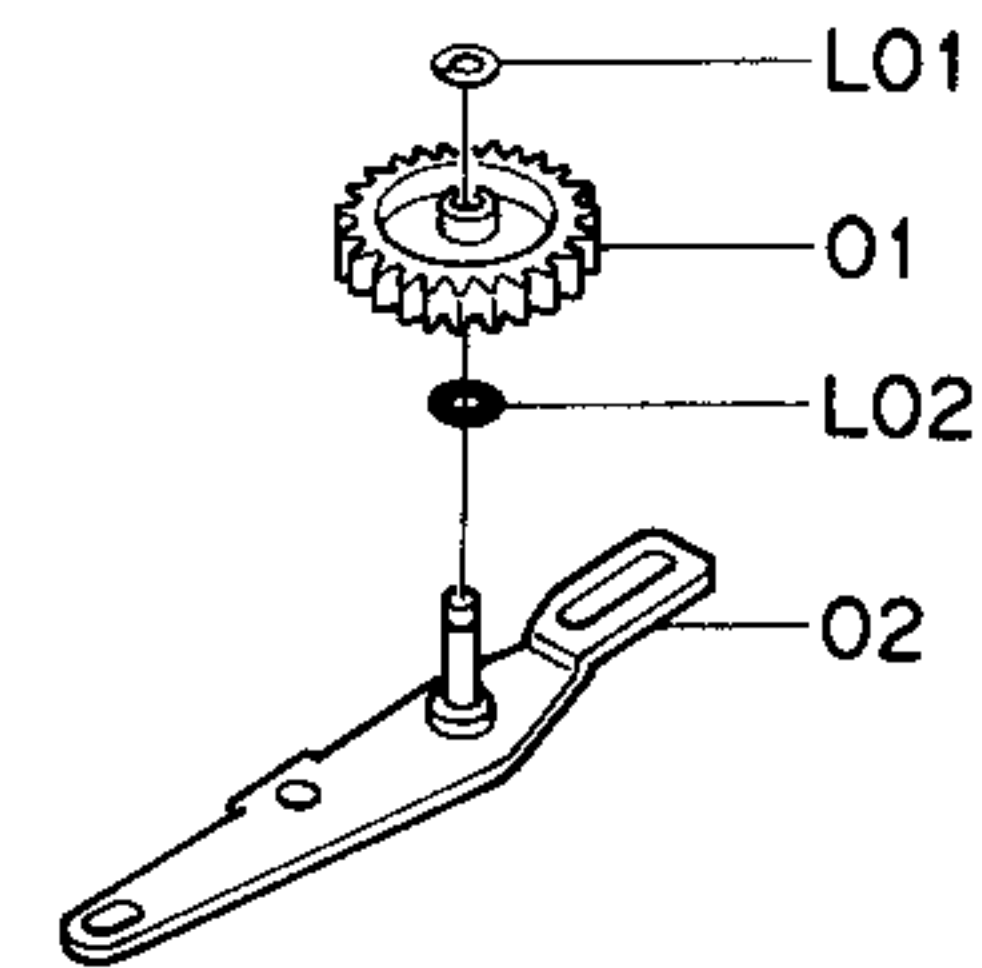


Fig. 7.16

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
C03	CA08718A	Reel Mechanism Ass'y Serial No.: C60503399 - C60701251 -	1	D01	CA08677A	Solenoid Plate Ass'y Serial No.: C60501001 - C60701001 -	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	OB90029A	Eject Solenoid	1
05	OC08864B	Brake Spring	1	05	OC08833A	Solenoid Plate	1
06	OC08690A	Brake Shoe	2	L01	OE00222A	E-Ring 2mm	1
07	OC08723B	RB Plate	1	L02	OE03199A	Washer 1.8mm	1
08	CA08639F	Take-up Reel Hub Ass'y	1	L03	OE03183A	M1.7x2.2 ⊕ Pan (Black Chromate)	1
09	CA08641F	Supply Reel Hub Ass'y	1	L04	OE00922A	M2x3 ⊕ Pan (Black Chromate)	2
10	OC08742A	Back Tension Disc	1				
11	BA05614B	Shut-off P.C.B. Ass'y	1	D02	CA08675A	Loading Arm Ass'y Serial No.: C60501001 - C60701001 -	1
12	OC08729B	Idler Gear	1				
13	OC08709A	Back Tension Arm	1	01	OC08795B	Main Shaft L	1
14	OC08865A	Back Tension Arm Spring	1	02	CA08645A	Loading Arm B Ass'y	1
15	CA08634D	Reel Chassis Ass'y	1	03	OC08870A	Loading Arm Spring B	1
16	CA08672A	FF Arm Ass'y	1	04	OC08801B	Loading Arm A	1
17	CA08671A	Rewind Arm Ass'y	1	05	OC08869C	Loading Arm Spring A	1
18	OC08778A	FR Drum	1	06	OC08791B	Loading Gear B	1
19	CA08631A	Clutch Disc Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
20	CA08673A	Magnet Clutch Pulley Ass'y	1				
L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4	D03	CA08676A	Head Base Arm Ass'y Serial No.: C60501001 - C60701001 -	1
L02	OE00104A	E-Ring 5mm	1				
L03	OE00042A	E-Ring 1.5mm	6	01	OC08786A	Roller 1.5x4x2.5	1
L04	OE03195A	Nylon Washer 3.6mm 3.6x6x0.25	1	02	CA08642B	Head Base Arm Sub Ass'y	1
L05	OE03193A	Nylon Washer 2.1mm 2.1x7x0.25	2	L01	OE00165A	E-Ring 1.2mm	1
L06	OE00922A	M2x3 ⊕ Pan	1				
C03	CA08670A	Reel Mechanism Ass'y Serial Nos.: C60501001 - 03398 C60701001 - 01250	1	E01	CA08672A	FF Arm Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08727A	Idler Gear	1				
02	OC08676B	Pinion Gear	1	01	OC08731A	F Idler A	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	02	CA08626C	FF Arm Sub Ass'y	1
04	OC08866A	Pivot Suspension Arm Spring	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
05	OC08864B	Brake Spring	1	L02	OE03187A	Nylon Washer FT20 2.1x4.0x0.25	1
06	OC08690A	Brake Shoe	2				
07	OC08723B	RB Plate	1	E02	CA08671A	Rewind Arm Ass'y Serial No.: C60501001 - C60701001 -	1
08	CA08639F	Take-up Reel Hub Ass'y	1				
09	CA08641F	Supply Reel Hub Ass'y	1	01	OC08731A	F Idler A	1
10	OC08742A	Back Tension Disc	1	02	CA08624B	Rewind Arm Sub Ass'y	1
11	BA05429A	Shut-off P.C.B. Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
12	OC08729B	Idler Gear	1	L02	OE03187A	Nylon Washer FT20 2.1x4.0x0.25	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	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4				
L02	OE00104A	E-Ring 5mm	1				
L03	OE00042A	E-Ring 1.5mm	6				
L04	OE03195A	Nylon Washer 3.6mm 3.6x6x0.25	1				
L05	OE03193A	Nylon Washer 2.1mm 2.1x7x0.25	2				
L06	OE00922A	M2x3 ⊕ Pan	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

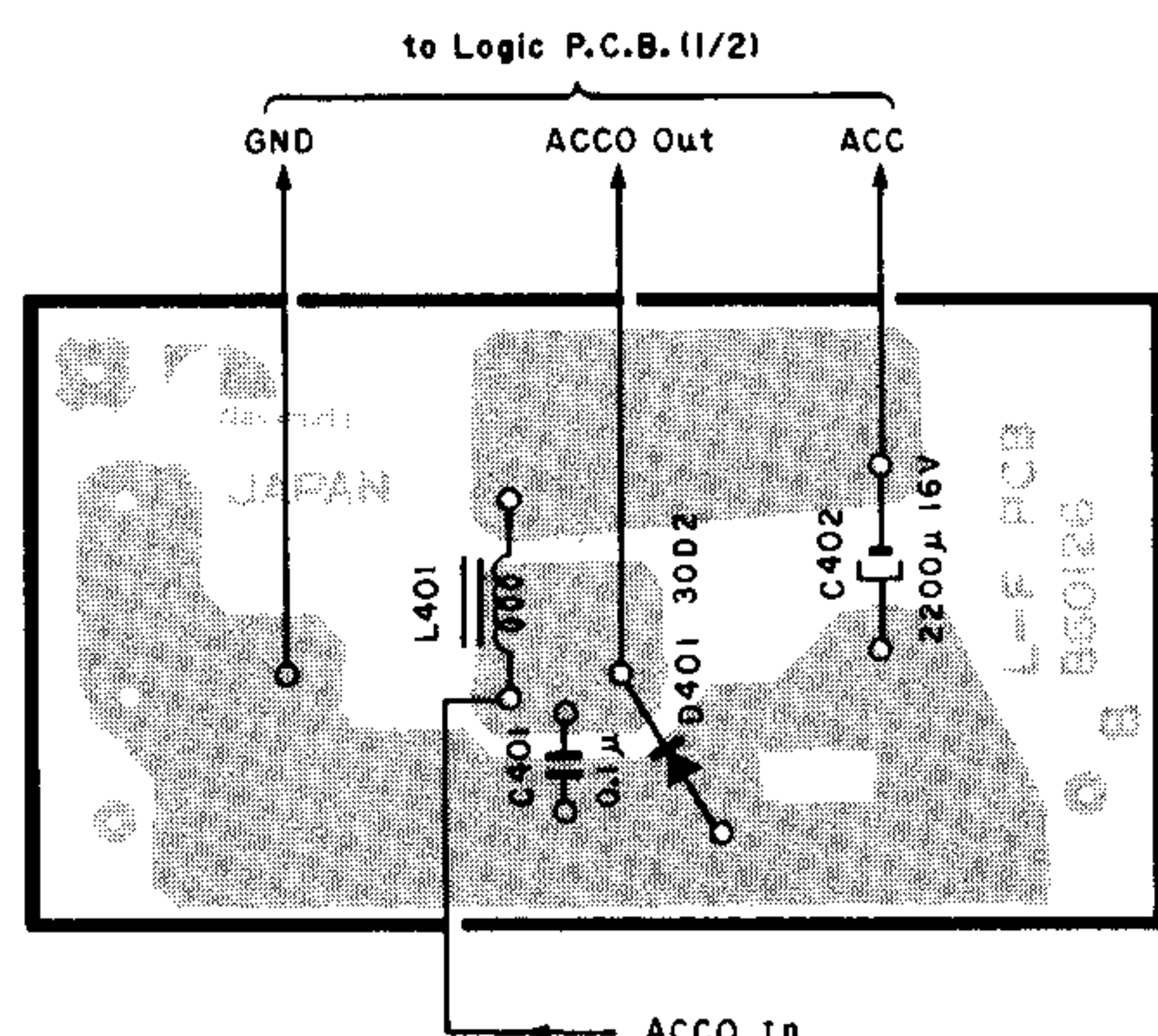


Fig. 8.1

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

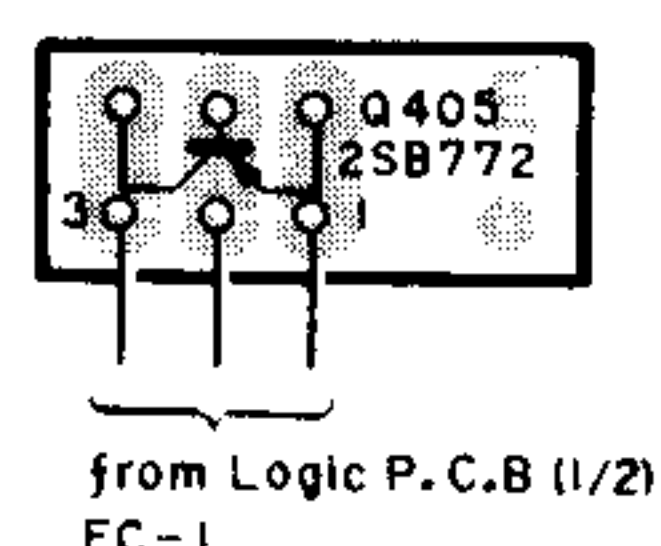


Fig. 8.2

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

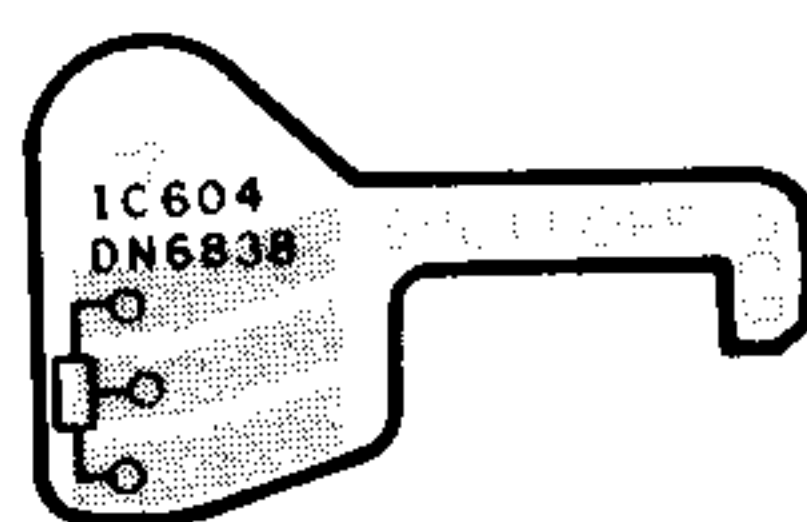


Fig. 8.3

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

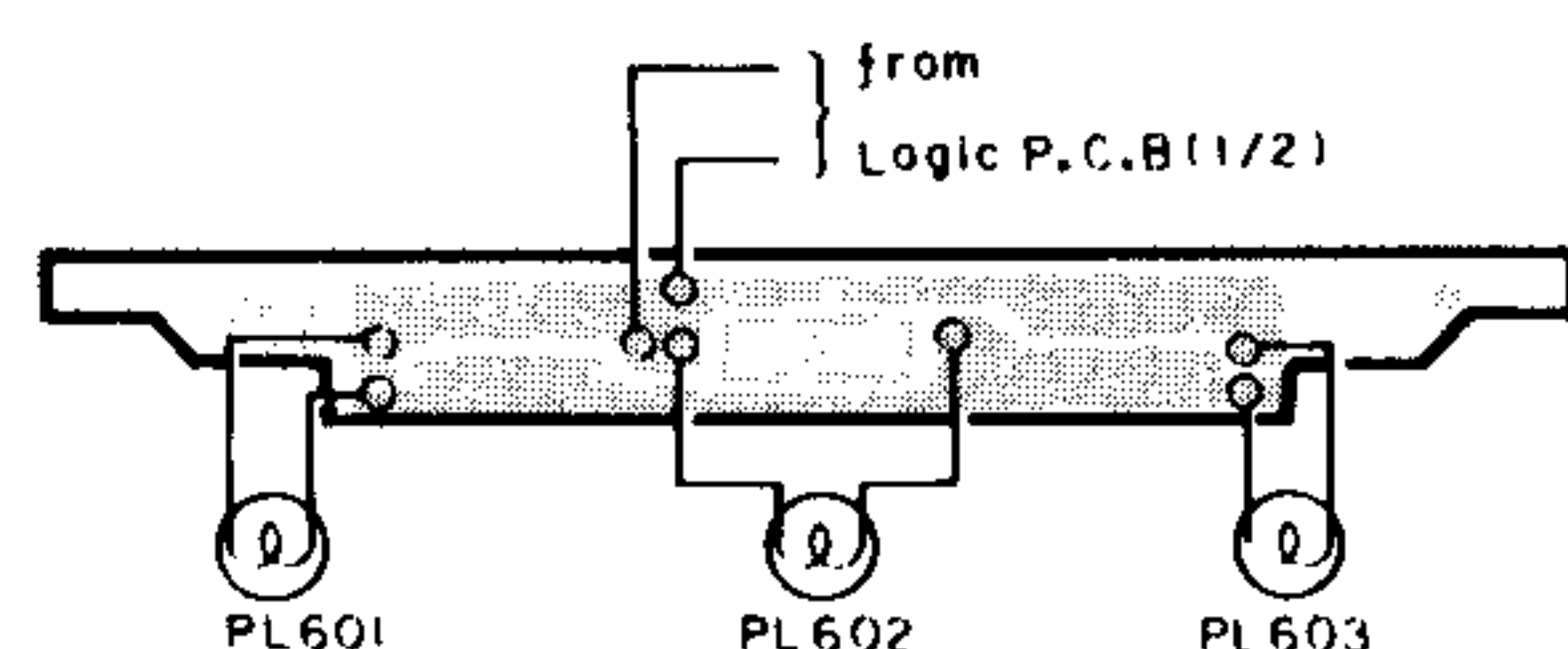


Fig. 8.4

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

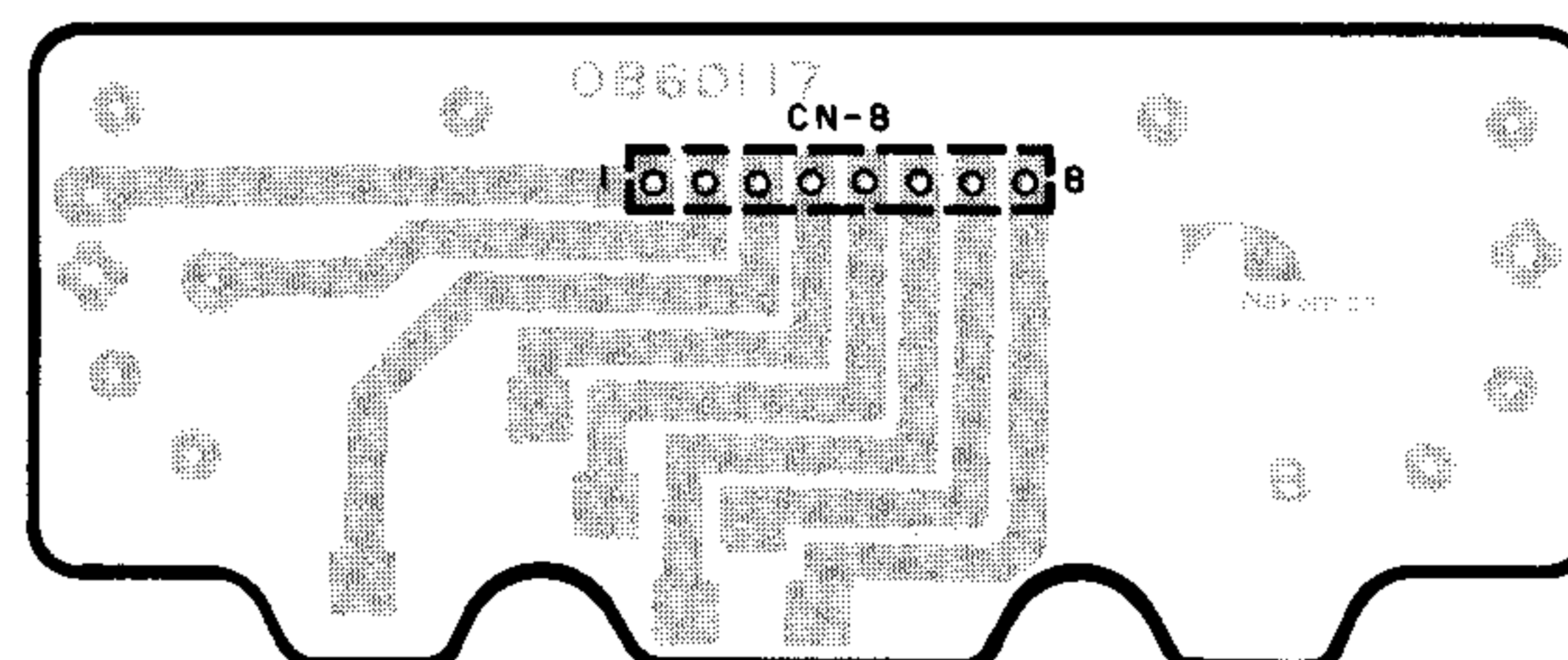


Fig. 8.5

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
	OB09894A	CE 2200μ 16V
	OB80068B	GND Cable (1)
	OB80069A	ACC Cable (1)
	OB90019A	SK Binder (2)
Q405 FC1	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.: C60503399 - C60701251 -
	OB60103B	Shut-off P.C.B.
	OB11062A	Hall IC DN6838
	OB82358A	3P-H Connector 50mm
IC604 CP3	BA05429A	Shut-off P.C.B. Ass'y Serial Nos.: C60501001 - 03398 C60701001 - 01250
	OB60103A	Shut-off P.C.B.
	OB11062A	Hall IC DN6838
PL601,602 603	BA05484A	Lamp P.C.B Ass'y
	OB60121A	Lamp P.C.B.
	OB90030A	Lamp 65mA 14V
CN8	OH04670B	Illuminator B (1)
	BA05430A	Solenoid P.C.B. Ass'y
	OB60117B	Solenoid P.C.B.
	OB81042A	8P-S Post

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

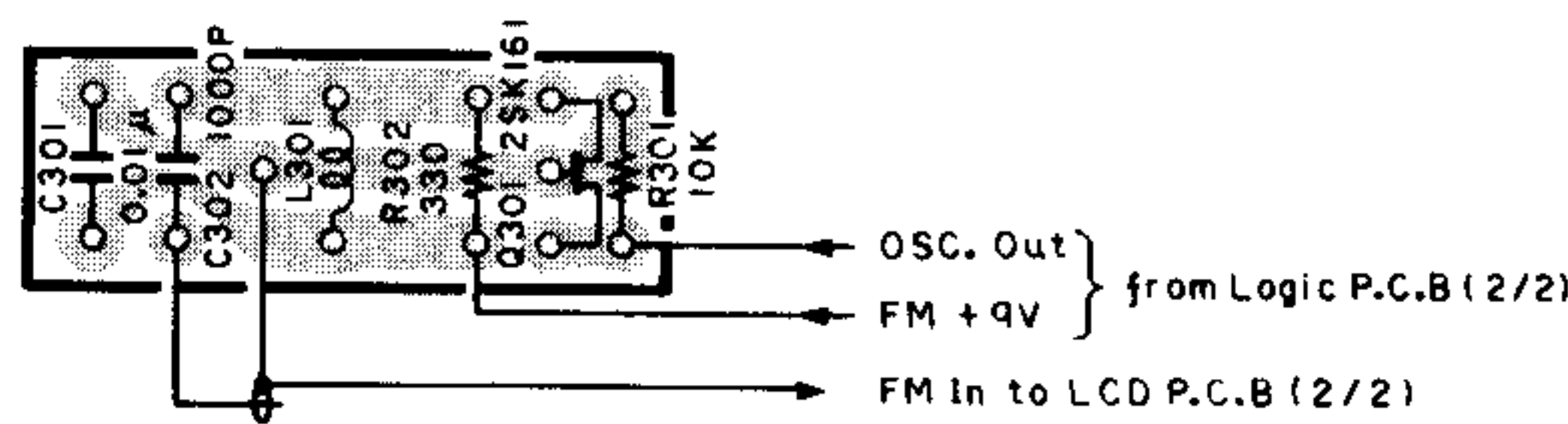


Fig. 8.6

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

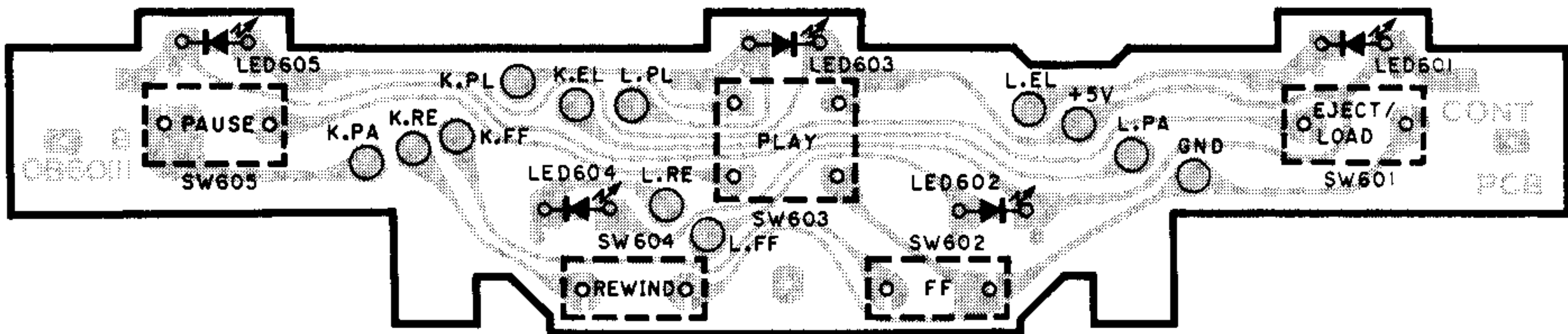


Fig. 8.7

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

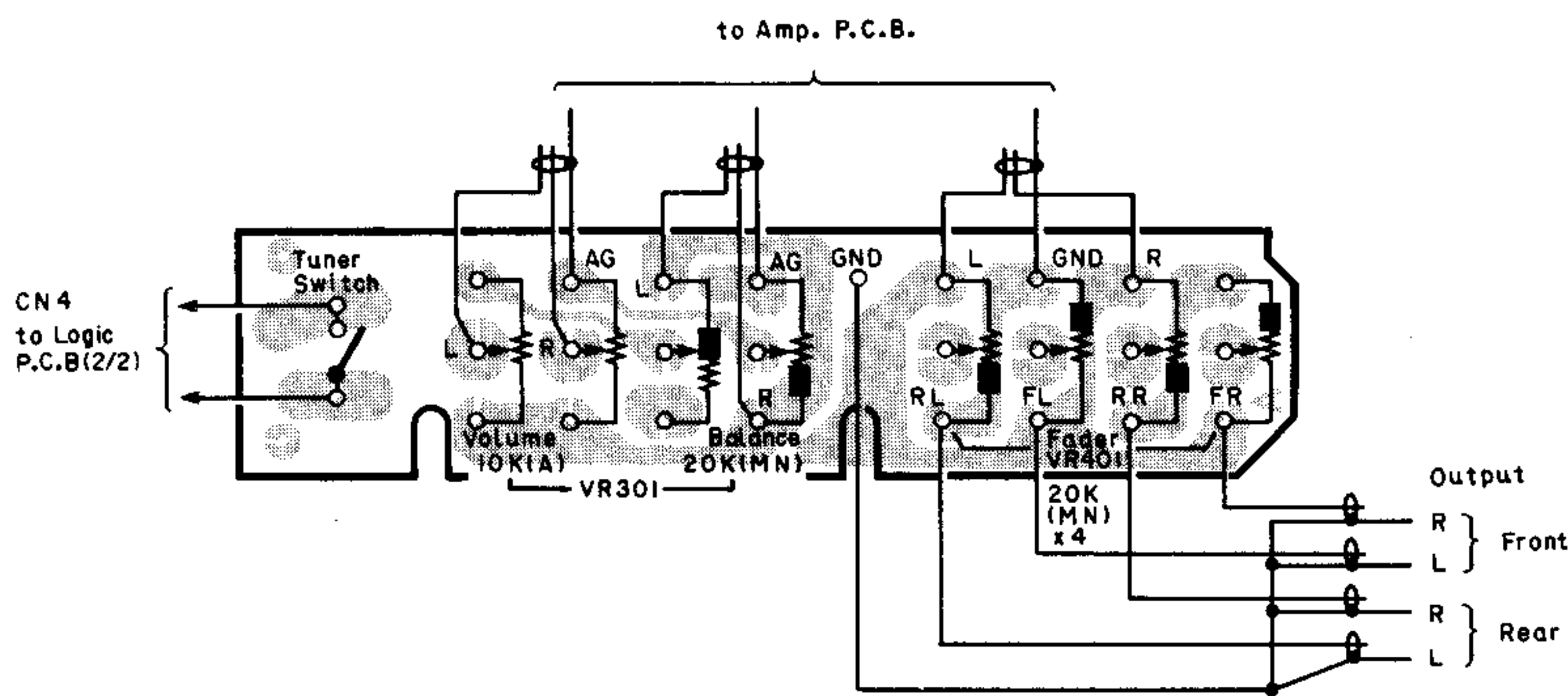


Fig. 8.8

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-700 & TD-700E
	0B60132A	Buffer Amp. P.C.B. FET 2SK161		BA05466A	Volume P.C.B. Ass'y TD-700D
	0B06461A	RF Coil		0B60115A	Volume P.C.B. Volume 12mm
	0B51198A	RK 10K 1/6W J		0B30011A	2P-H Connector
	0B09701A	RK 330 1/6W J		0B82305A	Pin Jack Cable BLK TD-700 & TD-700E (1)
	0B09665A	CC 0.01μ 25V		0B81269B	Pin Jack Cable GRY TD-700 & TD-700E (1)
LED601-605 SW601,602 604,605 SW603	0B41019A	CC 1000P 25V		0B81280A	Socket 7P TD-700D (1)
	0B41007A			0B81275B	Earth Lug M2.6 (1)
	BA05415A	Control P.C.B. Ass'y		0E03123A	Shield Wire A (Yellow) (1)
	0B60111B	Control P.C.B. LED SLP202C Green		0B80078B	Shield Wire B (Red) (1)
	0B12215A	Tact Switch		0B80079B	Shield Wire C (Black) (1)
	0B70020A	Tact Switch Reflector A (5)		0B80080B	

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

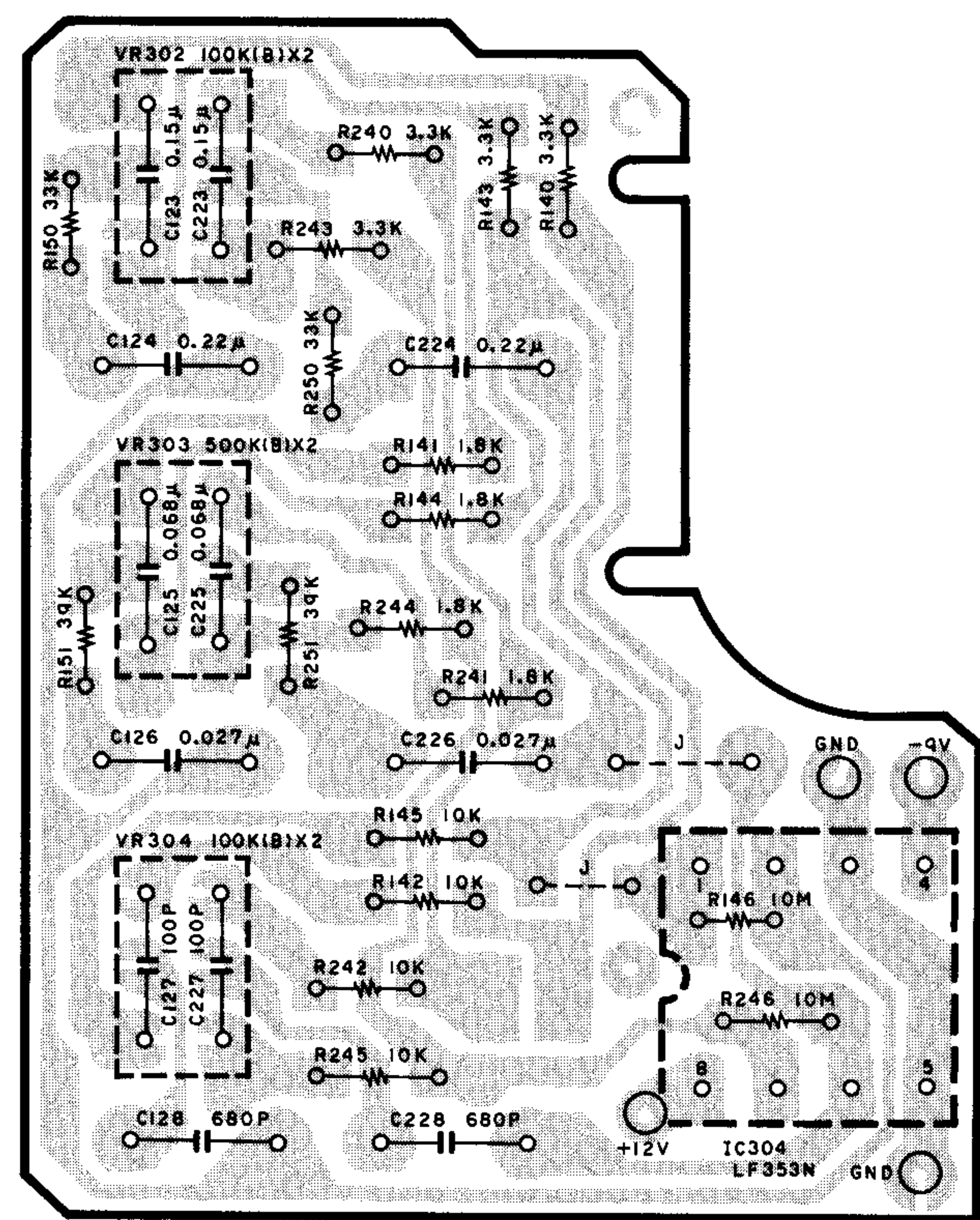


Fig. 8.9.1 C60503551 - (TD-700 & TD-700E)
C60701301 - (TD-700D)

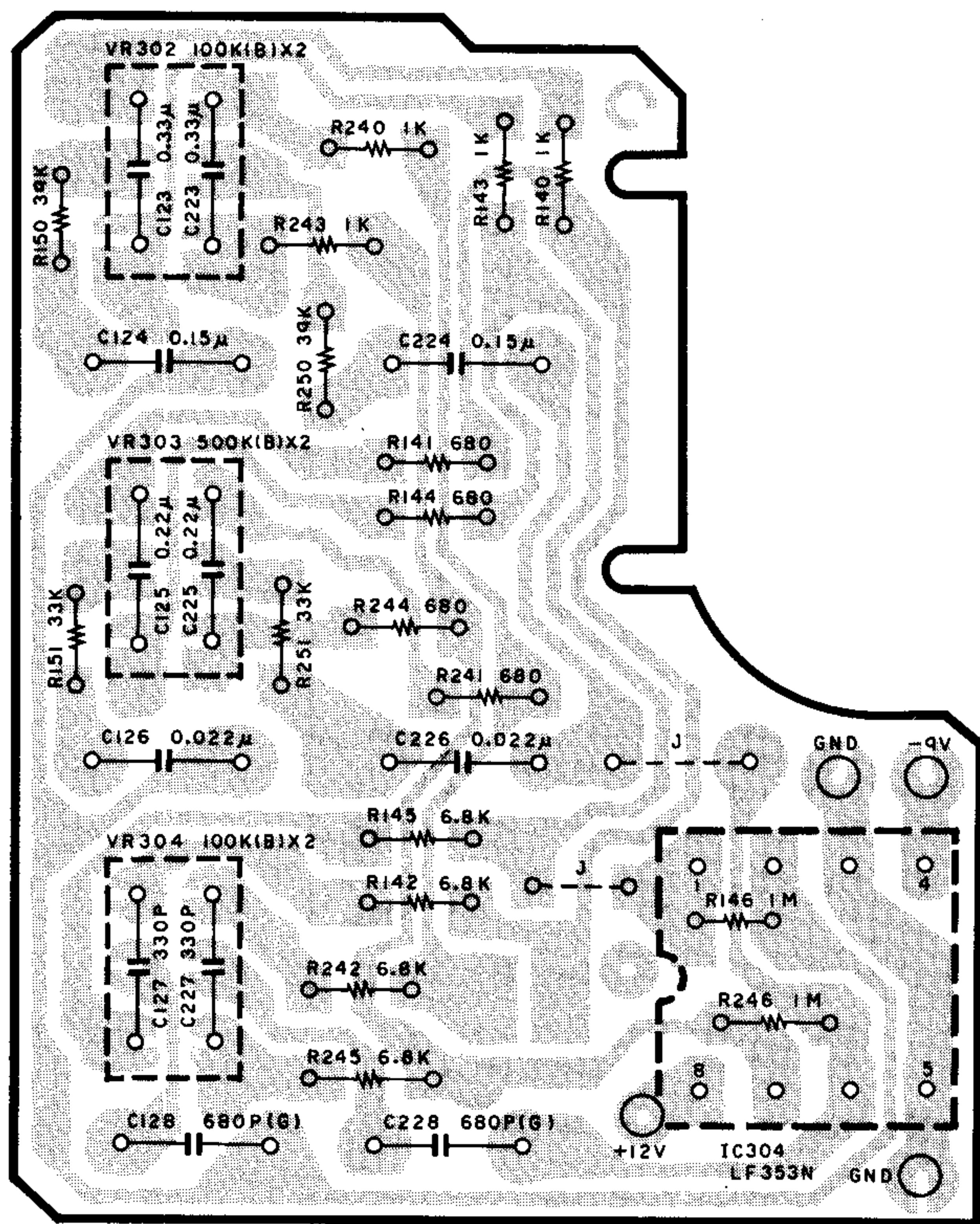


Fig. 8.9.2 C60501001 - 03550 (TD-700 & TD-700E)
C60701001 - 01300 (TD-700D)

Schematic Ref. No.	Part No.	Description
	BA05613A	Tone Volume P.C.B. Ass'y Serial No.: C60503551 - C60701301 -
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
R140,143 240,243	0B23085A	RK 3.3K 1/8W J
R141,144 241,244	0B23079A	RK 1.8K 1/8W J
R142,145 242,245	0B23097A	RK 10K 1/8W J
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.: C60501001 - 03550 C60701001 - 01300
IC304	0B60114C 0B11032A	Tone Volume P.C.B. IC LF353N
VR302,304	0B30012A	VR 100K (B)x2
VR303	0B30013A	VR 500K (B)x2
R140,143 240,243	0B23073A	RK 1K 1/8W J
R141,144 241,244	0B23069A	RK 680 1/8W J
R142,145 242,245	0B23093A	RK 6.8K 1/8W J
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 680P 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

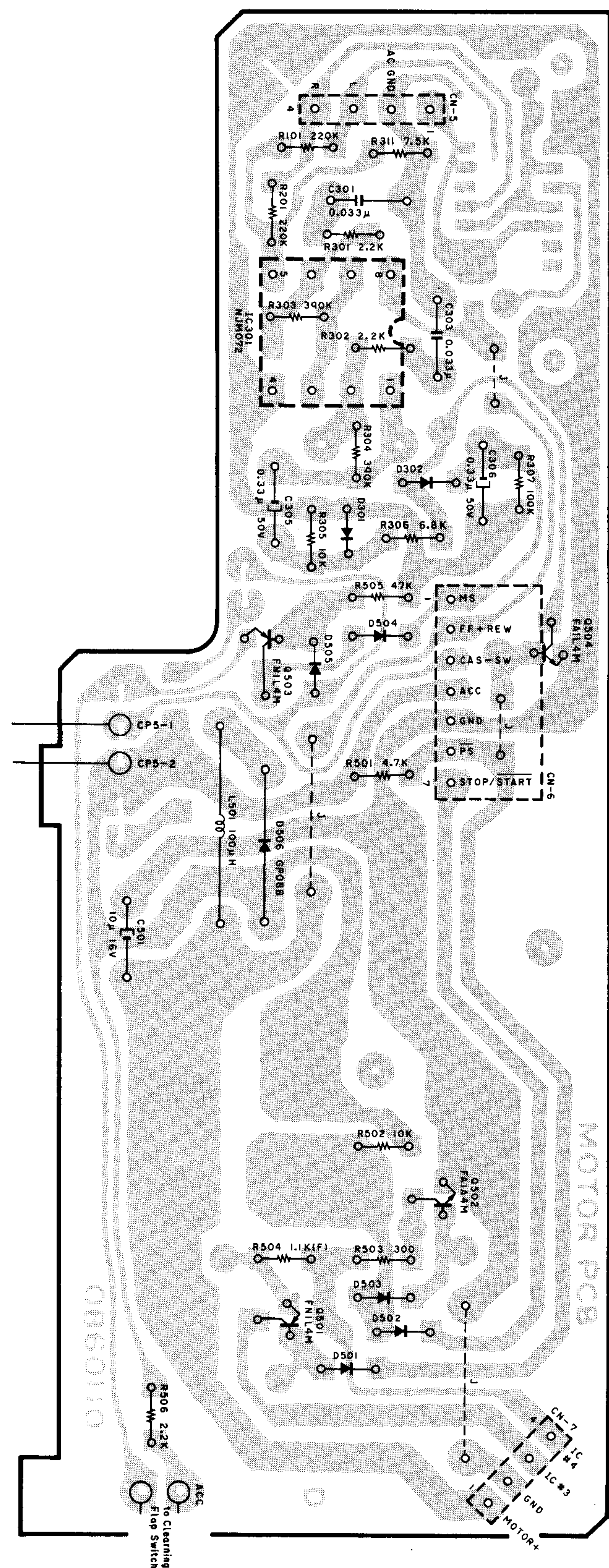


Fig. 8.10

Schematic Ref. No.	Part No.	Description
	BA05414B	Motor P.C.B. Ass'y
IC301	0B60110D	Motor P.C.B.
Q501,503	0B06457A	IC NJM072
Q502	0B14151A	TR FN1L4M
Q504	0B14144A	TR FA1A4M
D301,302	0B14146A	TR FA1L4M
501,502	0B13064A	SiD MA221
503,504		
505		
D506	0B06109A	SiD GP08B
L501	0B51183A	Micro Coil 100μH
R101,201	0B23129A	RK 220K 1/8W J
R301,302	0B23081A	RK 2.2K 1/8W J
506		
R303,304	0B23135A	RK 390K 1/8W J
R305,502	0B23097A	RK 10K 1/8W J
R306	0B23093A	RK 6.8K 1/8W J
R307	0B23121A	RK 100K 1/8W J
R311	0B23094A	RK 7.5K 1/8W J
R501	0B23089A	RK 4.7K 1/8W J
R503	0B23060A	RK 300 1/8W J
R504	0B26011A	RM 1.1K 1/8W F
R505	0B23113A	RK 47K 1/8W J
C301,303	0B05583A	CM 0.033μ 50V J
C305,306	0B40209A	CE 0.33μ 50V
C501	0B40162A	CE 10μ 16V
CN5	0B81231A	4P-T Post
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-700
(U.S.A. & Canada)

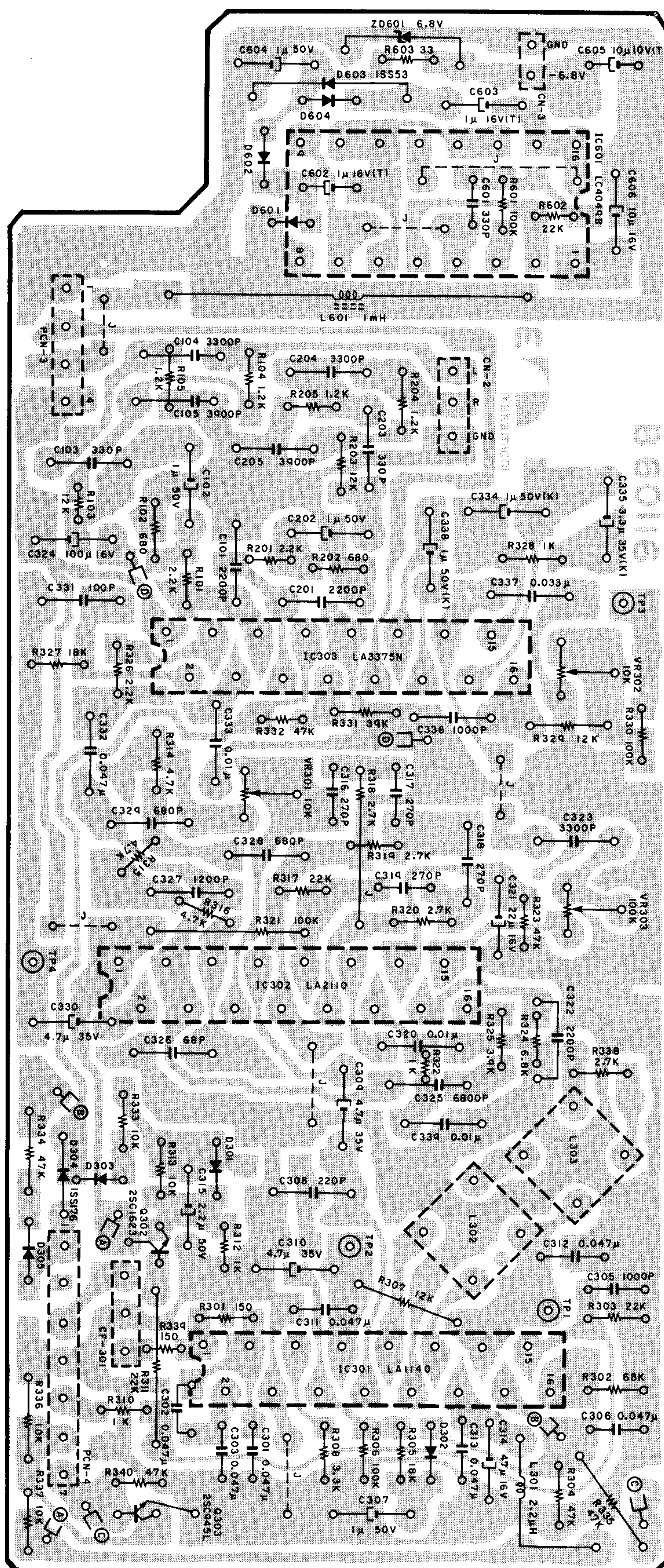


Fig. 8.11.1

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05424B	Tuner P.C.B. Ass'y TD-700 (U.S.A. & Canada)	C326	0B41191A	C 68P 100V J
			C327	0B05687A	CM 1200P 50V J
			C328,329	0B05571A	CM 680P 50V J
			C331	0B41386A	CP 100P 50V J
	0B60116E	Tuner P.C.B.	C332	0B05796A	CM 0.047μ 50V J
IC301	0B06412A	IC LA1140	C334,338	0B40263A	CE 1μ 50V K
IC302	0B06414A	IC LA2110	C335	0B40264A	CE 3.3μ 35V K
IC303	0B06415B	IC LA3375N	C336	0B41225A	CP 1000P 100V J
IC601	0B11066A	IC LC4049B	C337	0B05583A	CM 0.033μ 50V J
Q302	0B14022A	TR 2SC1623	C601	0B43055A	CC 330P 50V K
Q303	0B01872A	TR 2SC945L (P,Q)	C602	0B43025A	CT 1μ 16V
ZD601	0B06241A	ZD 6.8V RD6.8EB2	C605	0B43020A	CT 10μ 10V
D301,302	0B13064A	SiD MA221	C606	0B40162A	CE 10μ 16V
303,601			CF301	0B41076A	Ceramic Filter
602					SFE10.7MS3GKY
D304	0B06398A	SiD 1SS176	CN3	0B81036A	2P-S Post (1)
D305,604	0B13003A	SiD RLS-73	PCN2	0B81283A	3P-S Post (1)
D603	0B06181A	SiD 1SS53	PCN3	0B82288A	4P Connector (1)
L301	0B51106A	Micro Coil 2.2μH	PCN4	0B82289A	7P Connector (1)
L302	0B51142A	Det. Coil		0E00764A	M2.6x6 ⊕ Pan (2A)
		57-1291-01			(1)
L303	0B06712A	Det Coil		0J04869A	P.C.B. Holder Stud
		57-1057-01			(1)
L601	0B51040A	Micro Coil 1mH		0B81117A	Contact Pin 1P (4)
VR301,302	0B32035A	Potentiometer 10K		0J04871B	Shield Case (1)
VR303	0B32038A	Potentiometer 100K			
R101,201	0B23081A	RK 2.2K 1/8W J			
326					
R102,202	0B23069A	RK 680 1/8W J			
R103,203	0B23099A	RK 12K 1/8W J			
R104,105	0B23075A	RK 1.2K 1/8W J			
204,205					
R301,339	0B23053A	RK 150 1/8W J			
R302	0B23117A	RK 68K 1/8W J			
R303,317	0B23105A	RK 22K 1/8W J			
602					
R304,323	0B23113A	RK 47K 1/8W J			
332,334					
340					
R305,327	0B23103A	RK 18K 1/8W J			
R306,330	0B23121A	RK 100K 1/8W J			
601					
R307	0B05650A	RK 12K 1/4W VJ			
R308	0B23085A	RK 3.3K 1/8W J			
R309	0B23101A	RK 15K 1/8W J			
R310,312	0B23073A	RK 1K 1/8W J			
322,328					
R311	0B05615A	RK 22K 1/4W J			
R313,333	0B23097A	RK 10K 1/8W J			
336,337					
R314,315	0B23089A	RK 4.7K 1/8W J			
316					
R318	0B05629A	RK 2.7K 1/4W J			
R319,320	0B23083A	RK 2.7K 1/8W J			
338					
R321	0B01889A	RK 100K 1/4W J			
R324	0B23093A	RK 6.8K 1/8W J			
R325	0B23087A	RK 3.9K 1/8W J			
R329	0B09703A	RK 12K 1/6W J			
R331	0B23111A	RK 39K 1/8W J			
R335	0B09717A	RK 47K 1/6W J			
R603	0B23037A	RK 33 1/8W J			
C101,201	0B41233A	CP 2200P 100V J			
C102,202	0B40255A	CE 1μ 50V			
C103,203	0B41213A	CP 330P 100V J			
C104,204	0B41237A	CP 3300P 100V J			
C105,205	0B41239A	CP 3900P 100V J			
C301,302	0B43053A	CC 0.047μ 50V K			
303,306					
311,312					
313					
C305	0B43050A	CC 1000P 50V K			
C307,603	0B40173A	CE 1μ 50V			
604					
C308	0B41394A	CP 220P 50V J			
C309,330	0B40258A	CE 4.7μ 35V			
C310	0B40019A	CE 4.7μ 35V			
C314	0B40165A	CE 47μ 16V			
C315	0B40174A	CE 2.2μ 50V			
C316,317	0B43049A	CC 270P 50V K			
319					
C318	0B09284A	CC 270P 50V J			
C320,333	0B41094A	CM 0.01μ 50V			
339					
C321	0B40163A	CE 22μ 16V			
C322	0B01802A	CM 2200P 50V J			
C323	0B01914A	CM 3300P 50V J			
C324	0B40206A	CE 100μ 16V			
C325	0B05530A	CM 6800P 50V J			

(2) For TD-700 (Australia & Others), TD-700E and TD-700D

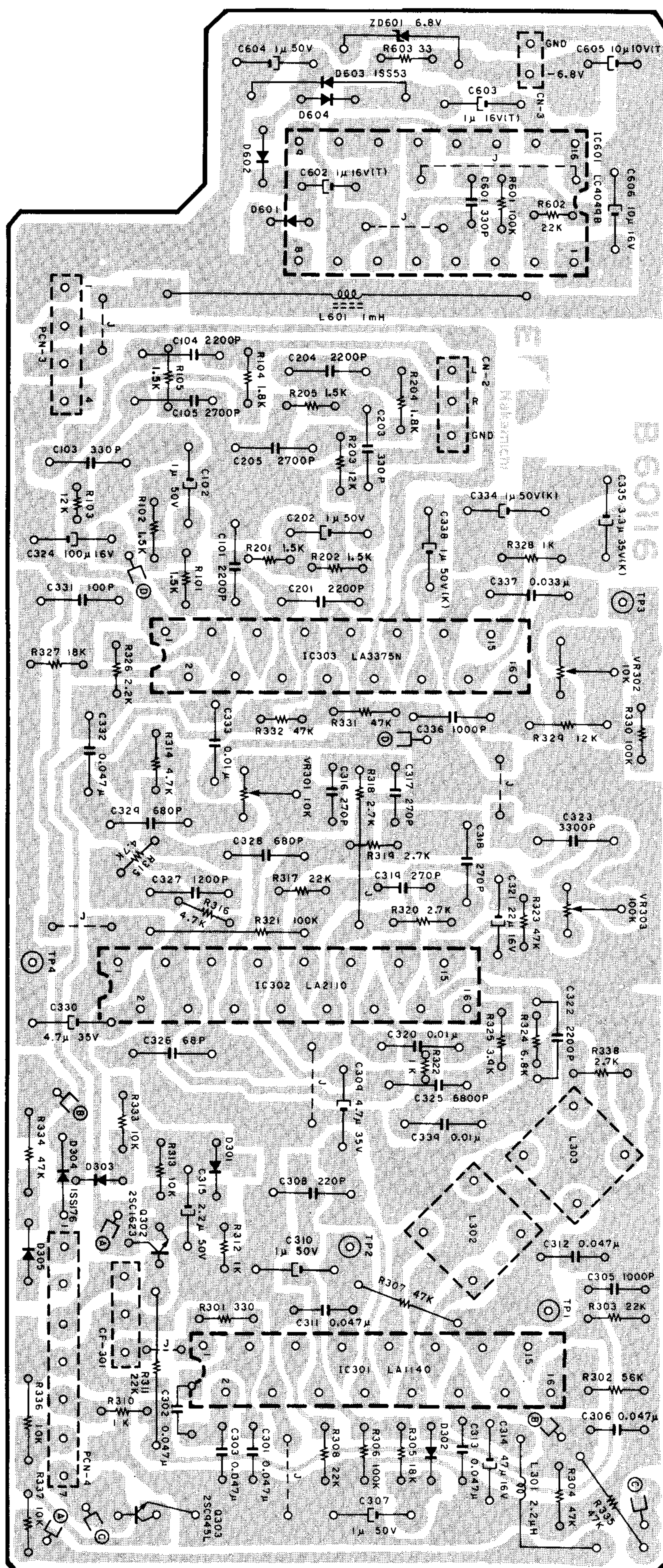


Fig. 8.11.2

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05458A	Tuner P.C.B. Ass'y TD-700 (Australia & Others), TD-700E & TD-700D	C328,329 C331 C332 C334,338 C335 C336 C337 C601 C602 C605 C606 CF301	OB05571A OB41386A OB05796A OB40263A OB40264A OB41225A OB05583A OB43055A OB43025A OB43020A OB40162A OB41076A	CM 680P 50V J CP 100P 50V J CM 0.047 μ 50V J CE 1 μ 50V K CE 3.3 μ 35V K CP 1000P 100V J CM 0.033 μ 50V J CC 330P 50V K CT 1 μ 16V CT 10 μ 10V CE 10 μ 16V Ceramic Filter SFE10.7MS3GKY-A
IC301 IC302 IC303 IC601 Q302 Q303 ZD601 D301,302 303,601 602 D304 D305,604 D603 L301 L302 L303 L601 VR301,302 VR303 R101,102 105,201 202,205 R103,203 R104,204 R301 R302 R303,308 317,602 R304,323 331,332 334 R305,327 R306,330 601 R307 R310,312 322,328 R311 R313,333 336,337 R314,315 316 R318 R319,320 338 R321 R324 R325 R326 R329 R335 R603 C101,104 201,204 C102,202 C103,203 C105,205 C301,302 303,306 311,312 313 C305 C307,310 603,604 C308 C309,330 C314 C315 C316,317 319 C318 C320,333 339 C321 C322 C323 C324 C325 C326 C327	OB60116E OB06412A OB06414A OB06415B OB11066A OB14022A OB01872A OB06241A OB13064A OB06398A OB13003A OB06181A OB51106A OB51142A OB06712A OB51040A OB32035A OB32038A OB23077A OB23099A OB23079A OB23061A OB23115A OB23105A OB23113A OB23103A OB23121A OB05562A OB23073A OB05615A OB23097A OB23089A OB05629A OB23083A OB01889A OB23093A OB23087A OB23081A OB09703A OB09717A OB23037A OB41233A OB40255A OB41213A OB41235A OB43053A OB43050A OB40173A OB41394A OB40258A OB40165A OB40174A OB43049A OB09284A OB41094A OB40163A OB01802A OB01914A OB40206A OB05530A OB41191A OB05687A	Tuner P.C.B. IC LA1140 IC LA2110 IC LA3375N IC LC4049B TR 2SC1623 TR 2SC945L (P,Q) ZD 6.8V RD6.8EB2 SiD MA221 SiD 1SS176 SiD RLS-73 SiD 1SS53 Micro Coil 2.2 μ H Det. Coil 57-1291-01 Det. Coil 57-1057-01 Micro Coil 1mH Potentiometer 10K Potnetiometer 100K RK 1.5K 1/8W J RK 12K 1/8W J RK 1.8K 1/8W J RK 330 1/8W J RK 56K 1/8W J RK 22K 1/8W J RK 47K 1/8W J RK 18K 1/8W J RK 100K 1/8W J RK 47K 1/4W VJ RK 1K 1/8W J RK 22K 1/4W J RK 10K 1/8W J RK 4.7K 1/8W J RK 2.7K 1/4W J RK 2.7K 1/8W J RK 100K 1/4W J RK 6.8K 1/8W J RK 3.9K 1/8W J RK 2.2K 1/8W J RK 12K 1/6W J RK 47K 1/6W J RK 33 1/8W J CP 2200P 100V J CE 1 μ 50V CP 330P 100V J CP 2700P 100V J CC 0.047 μ 50V K CC 1000P 50V K CE 1 μ 50V CP 220P 50V J CE 4.7 μ 35V CE 47 μ 16V CE 2.2 μ 50V CC 270P 50V K CC 270P 50V J CM 0.01 μ 50V CE 22 μ 16V CM 2200P 50V J CM 3300P 50V J CE 100 μ 16V CM 6800P 50V J C 68P 100V J CM 1200P 50V J	CN3 PCN2 PCN3 PCN4	OB81036A OB81283A OB82288A OB82289A OE00764A OJ04869A OB81117A OJ04871B	2P-S Post (1) 3P-S Post (1) 4P Connector (1) 7P Connector (1) M2.6x6 $\oplus$ Pan (2A) (1) P.C.B. Holder Stud (1) Contact Pin 1P (4) Shield Case (1)

(3) For TD-700 (Japan)

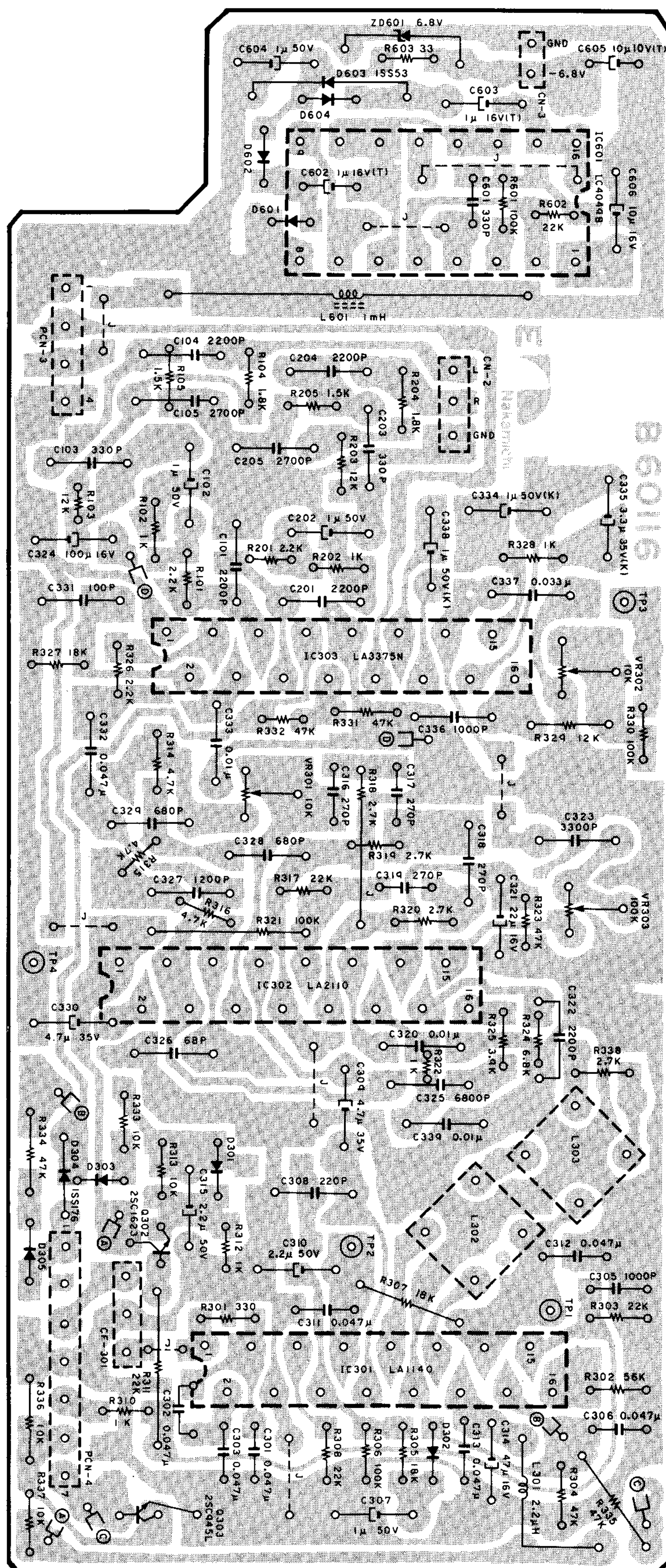


Fig. 8.11.3

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05423A	Tuner P.C.B. Ass'y TD-700 (Japan)	C332	OB05796A	CM 0.047μ 50V J
			C334,338	OB40263A	CE 1μ 50V K
			C335	OB40264A	CE 3.3μ 35V K
			C336	OB41225A	CP 1000P 100V J
			C337	OB05583A	CM 0.033μ 50V J
IC301	OB60116E	Tuner P.C.B.	C601	OB43055A	CC 330P 50V K
IC302	OB06412A	IC LA1140	C602	OB43025A	CT 1μ 16V
IC303	OB06414A	IC LA2110	C605	OB43020A	CT 10μ 10V
IC601	OB06415B	IC LA3375N	C606	OB40162A	CE 10μ 16V
Q302	OB11066A	IC LC4049B	CF301	OB41075A	Ceramic Filter
Q303	OB14022A	TR 2SC1623			SFE10.7MLK-A
ZD601	OB01872A	TR 2SC945L (P,Q)			
D301,302	OB06241A	ZD 6.8V RD6.8EB2			
303,601	OB13064A	SiD MA221	CN3	OB81036A	2P-S Post (1)
602			PCN2	OB81283A	3P-S Post (1)
D304	OB06398A	SiD 1SS176	PCN3	OB82288A	4P Connector (1)
D305,604	OB13003A	SiD RLS-73	PCN4	OB82289A	7P Connector (1)
D603	OB06181A	SiD 1SS53		OE00764A	M2.6x6 ⊕ Pan (2A)
L301	OB51106A	Micro Coil 2.2μH			(1)
L302	OB51142A	Det. Coil		OJ04869A	P.C.B. Holder Stud
		57-1291-01			(1)
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	Potnetiometer 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 1μ 50V			
C103,203	OB41213A	CP 330P 100V J			
C105,205	OB41235A	CP 2700P 100V J			
C301,302	OB43053A	CC 0.047μ 50V K			
303,306					
311,312					
313					
C305	OB43050A	CC 1000P 50V K			
C307,603	OB40173A	CE 1μ 50V			
604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7μ 35V			
C310,315	OB40174A	CE 2.2μ 50V			
C314	OB40165A	CE 47μ 16V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41094A	CM 0.01μ 50V			
339					
C321	OB40163A	CE 22μ 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100μ 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			

