



Service Manual

Nakamichi BX-125 BX-125E

2 Head Cassette Deck



CONTENTS

1.	General	1
2.	Test Tapes and Gauges	2
3.	Mechanical Adjustments	2
3. 1.	Tape Guide Height Check for Record/Playback Head and Erase Head	2
3. 2.	Head Base Stroke Check	2
3. 3.	Record/Playback Azimuth Alignment and Height Check	2
3. 4.	Pressure Adjustment of Pressure Roller	3
3. 5.	Tape Travelling Check	3
3. 6.	Eject Damper Adjustment	3
3. 7.	Reel Motor Speed Adjustment in Play Mode	3
3. 8.	Tape Speed Adjustment	3
3. 9.	Lubrication	3
4.	Parts Location for Electrical Adjustment	4
5.	Electrical Adjustments	5
5. 1.	Adjustment Instructions	5
5. 2.	Playback Frequency Response Adjustment	7
6.	Mechanism Ass'y and Parts List	8
6. 1.	Synthesis	8
6. 2.	Synthesis Mechanism Ass'y (A01)	9
6. 3.	Mechanism Ass'y (B01)	11
6. 4.	Rear Panel Ass'y (B02)	13
7.	Mounting Diagrams and Parts List	14
7. 1.	Power Switch P.C.B. Ass'y	14
7. 2.	LED P.C.B. Ass'y	14
7. 3.	Timer Switch P.C.B. Ass'y	14
7. 4.	Shut-off P.C.B. Ass'y	14
7. 5.	Dolby NR Switch P.C.B. Ass'y	15
7. 6.	Volume P.C.B. Ass'y	15
7. 7.	Control Switch P.C.B. Ass'y	15
7. 8.	Tape Switch P.C.B. Ass'y	16
7. 9.	Indicator P.C.B. Ass'y	16
7. 10.	Main P.C.B. Ass'y	17
8.	Schematic Diagram	19
8. 1.	IC Block Diagrams	19
8. 2.	Schematic Diagram	20
9.	Wiring Diagram	21
10.	Block Diagrams	22
11.	Timing Chart and Eq. Amp. Frequency Response	24
12.	Specifications	26

1. GENERAL

1.1. Voltage Selector

Voltage selector is installed on the rear panel for Other version of the Nakamichi BX-125. This voltage selector can select either 120 V or 220-240 V at customer's disposal.

1.2. Packing Materials and Owner's Manual

Part No.	Description	Q'ty
OF03855A	Carton Box BX-125 (Silver)	1
OF03857A	Carton Box BX-125 (Black)	1
OF03856A	Carton Box BX-125E (Silver)	1
OF03858A	Carton Box BX-125E (Black)	1
OF03674C	Packing	2
OD04517A	Owner's Manual (English)	1
OD04518A	Owner's Manual (English/German/French)	1
OD04522A	Owner's Manual (Japanese)	1

1.3. Serial Number

The BX-125/BX-125E has two versions, Silver and Black.

In the service manual, serial numbers of these versions are identified as follows:

Silver version: A322xxxxx

Black version: A323xxxxx

However, the actual serial number on the serial number plate of the BX-125/BX-125E is indicated as A322.3xxxxx.

The serial number begins with A322.301001.

2. TEST TAPES AND GAUGES

- (1) 400 Hz Level Tape (DA09005B)
- (2) 1 kHz Track Alignment Tape (DA09007B)
- (3) 15 kHz Azimuth Tape (DA09004B)
- (4) 3 kHz Speed and Wow/Flutter Tape (DA09006C)
- (5) 10 kHz PB Frequency Response Tape (DA09003B)
- (6) 15 kHz PB Frequency Response Tape (DA09002B)
- (7) 20 kHz PB Frequency Response Tape (DA09001B)
- (8) Tape Travelling Cassette (DA09027B)
- (9) Reference EXII Tape (DA09066B)
- (10) Reference SX Tape (DA09025B)
- (11) Reference SX-E Tape (DA09086A)
- (12) Reference ZX Tape (DA09037B)
- (13) Head Alignment Gauge (DA09092A)

3. MECHANICAL ADJUSTMENTS

3.1. Tape Guide Height Check for Record/Playback Head and Erase Head

With use of a Head Alignment Gauge, tape guide height check for the Record/Playback and Erase Heads shall be made, wherein a small block shall be pushed straight down to the base while in use of the Head Alignment Gauge. Refer to Fig. 3.1.

- (1) **Record/Playback Head Tape Guide Height**
 - (a) Load the base of the Head Alignment Gauge carefully and set the cassette deck in Play mode.
 - (b) Place the small block of the Head Alignment Gauge on the base.
 - (c) Slide the small block against the tape guide of the Record/Playback Head, and check to insure that the block is accepted by the tape guide.
 - (d) If not, loosen the screw and insert a shim (either 30 μm (OC80048A), 60 μm (OC80038A), or 100 μm (OC80039A)) to raise the Record/Playback Head, then tighten and apply a quantity of lock tight paint to the screw.
- (2) **Erase Head Tape Guide Height**
 - (a) Load the base of the Head Alignment Gauge carefully and set the cassette deck in Play mode.
 - (b) Place the small block of the Head Alignment Gauge on the base.
 - (c) Slide the small block against the tape guide of the Erase Head, and check whether the block is accepted by the tape guide.

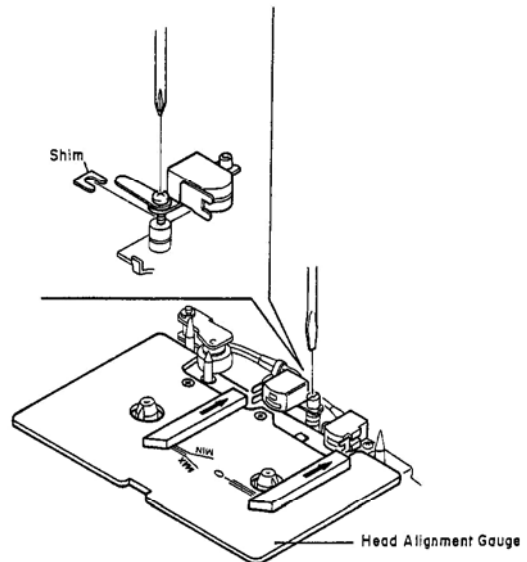


Fig. 3.1

3.2. Head Base Stroke Check

Refer to Fig. 3.2.

- (1) Load the base of the Head Alignment Gauge carefully, then push the base toward the Record/Playback Head to eliminate the clearance between the reference pin and the base.
- (2) Set the cassette deck in Play mode.
- (3) Place the small block of the Head Alignment Gauge on the base.
- (4) Contact the small block with the Record/Playback Head surface and the Erase Head surface, and check whether the end of the small block is located within the specified tolerance as shown in Fig. 3.2.

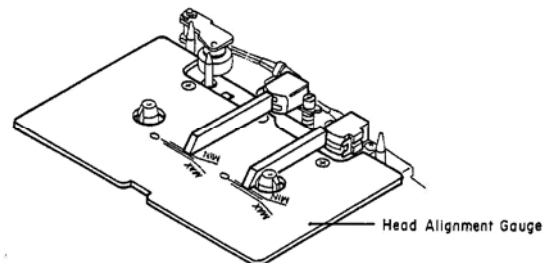


Fig. 3.2

3.3. Record/Playback Azimuth Alignment and Height Check

Refer to Fig. 3.1.

- (1) Connect a VTVM to the Output Jacks.
- (2) Load a 15 kHz Azimuth Tape and set the cassette deck in Play mode.
- (3) Turn the Azimuth Alignment Screw until the outputs of both channels become maximum.
- (4) Load a 1 kHz Track Alignment Tape and set the cassette deck in Play mode.
- (5) Check to insure that the readings of both channels on the VTVM are below -25 dB.
If not, replacement of the Record/Playback Head will be required.
- (6) Apply a quantity of lock tight paint to the Azimuth Alignment Screw.

3.4. Pressure Adjustment of Pressure Roller

Refer to Fig. 3.3.

- (1) In Play mode, measure the torque of the Pressure Roller and check whether the torque is in a range of 320 ± 50 g-cm.
- (2) If torque is out of the range, correct it by changing the installation point of the Pressure Roller Spring.

3.5. Tape Travelling Check

Load a Tape Travelling Cassette and set the cassette deck in Play mode to check the followings:

- (1) After more than 2 seconds, the fluctuation of the tape travelling on the Record/Playback Head is small.
- (2) Tape is in contact with the head sufficiently.
- (3) Tape waving is small on the heads and pressure roller.

3.6. Eject Damper Adjustment

Refer to Fig. 3.4. Load a cassette tape, and with opening the Cassette Case by pressing the Eject button and closing it by hand, adjust the speed of damper action by the Damper Adjustment Screw.

CCW: Damper moves fast.

CW: Damper moves slowly.

3.7. Reel Motor Speed Adjustment in Play Mode

- (1) To warm-up the cassette deck, load a C-60 cassette tape and set the cassette deck in Play mode.
- (2) After more than four minutes, load a torque meter TW-211 (made by Sony) and set the cassette deck in Play mode.
- (3) Adjust VR601 on the Main P.C.B. Ass'y to obtain exactly 50 g-cm on the torque meter.

3.8. Tape Speed Adjustment

Refer to Fig. 3.5.

- (1) Connect a frequency counter to the Output Jacks.
- (2) Load a 3 kHz Speed and Wow/Flutter Tape and play it back.
- (3) Adjust the Tape Speed Adjustment Volume incorporated in the Capstan Motor to obtain 3,000 Hz on the frequency counter.

CCW: Motor drives slowly.

CW: Motor drives fast.

3.9. Lubrication

The tape transport is of a lubrication-free type mechanism. When the following parts are replaced, apply the specified lubricant.

- (1) Molykote (R) Grease (X5-6020)
Cam Motor Pulley
Thrust portion on the Capstan Shaft
- (2) FLOIL GB-TS-1
Washer between Reel Hub Ass'y and Back Tension Spring
- (3) Diamond Oil (EP56)
Reel Hub Shaft
- (4) Anderol 456
Capstan Shaft

Note: We suggest that you use the above specified lubricant or equivalent type.

The company dealing in the above lubricant is as follows:

- (a) Molykote (R) Grease (X5-6020)
Dowcorning Co., Ltd., 1-15-1 Nishishinbashi, Minato-ku, Tokyo, Japan
- (b) FLOIL GB-TS-1
Kanto Chemicals Co., Ltd., 2-7 Kanda Sakuma-cho, Chiyoda-ku, Tokyo, Japan
- (c) Diamond Oil (EP-56)
Mitsubishi Oil Co., Ltd., 1-2-4 Toranomon, Minato-ku, Tokyo, Japan
- (d) Anderol 456
Toyo Kokusai Oil Co., Ltd., 3-3-5 Hatchobori, Chuo-ku, Tokyo, Japan

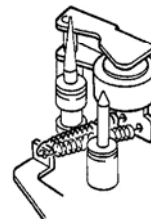


Fig. 3.3

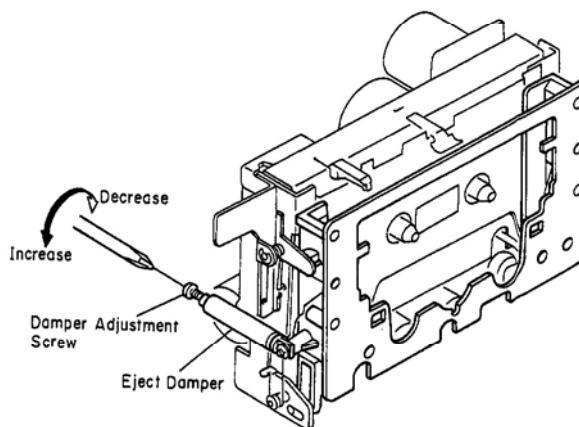


Fig. 3.4

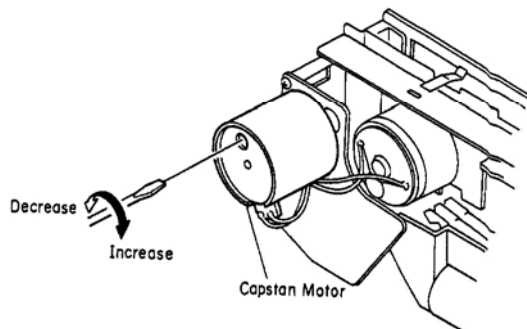


Fig. 3.5

4. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

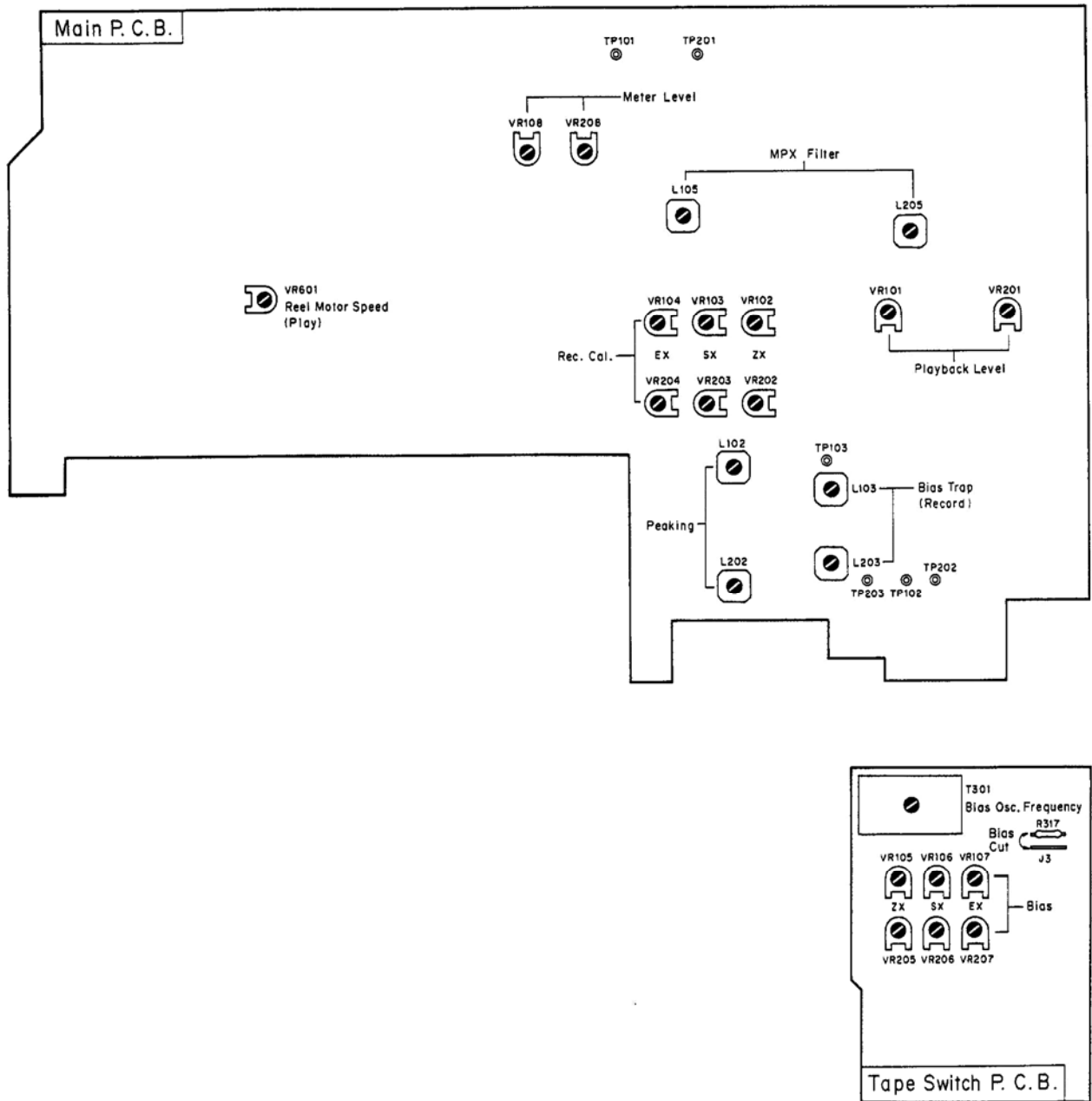


Fig. 4

5. ELECTRICAL ADJUSTMENTS

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

5.1. Adjustment Instructions

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Tape Speed Adjustment	3 kHz Speed and Wow/Flutter Tape	Frequency Counter to Output Jacks	Playback Eq. - 70 μ s	Tape Speed Adjustment Volume	Adjust the volume incorporated in the capstan motor to obtain 3 kHz \pm 0.5% on the frequency counter.
2	Meter Level Calibration	400 Hz to Input Jacks	VTVM to TP101, TP201 on Main P.C.B.	Record, Pause	Main P.C.B. VR108 VR208	<ol style="list-style-type: none"> 1. Feed in 400 Hz and adjust the Input Level controls to obtain 350 mV -0.8 dB on the VTVM. 2. Adjust VR108 (VR208) so that the 0 dB segment of the level meter starts illuminating. 3. Adjust the Input Level controls to obtain 350 mV on the VTVM, then decrease the generator output level by 20 dB. 4. Check to insure that the segment for -20 dB illuminates.
3	MPX Filter Adjustment	19 kHz \pm 100 Hz to Input Jacks	VTVM to Output Jacks	Record, Pause MPX - OFF/ON	Main P.C.B. L105 L205	<ol style="list-style-type: none"> 1. Set the Output Level control to max. Adjust the Input Level controls to obtain 500 mV (0 dB) on the VTVM. 2. Set the MPX Filter switch to ON and adjust L105 (L205) to obtain minimum reading on the VTVM (minimum reading will be less than -30 dB).
4	Record/Playback Head Azimuth Alignment	15 kHz Azimuth Tape	VTVM to Output Jacks	Playback Eq. - 70 μ s Dolby NR - OFF MPX - OFF	Record/Playback Head Azimuth Alignment Screw	Adjust the Record/Playback Head Azimuth Alignment Screw to obtain maximum readings for both channels on the VTVM.
5	Playback Level Calibration	400 Hz Level Tape	VTVM to TP101, TP201 on Main P.C.B.	Same as above	Main P.C.B. VR101 VR201	Adjust VR101 (VR201) to obtain 350 mV on the VTVM.
6	Playback Frequency Response Adjustment	400 Hz Level Tape 10 kHz PB Frequency Response Tape 15 kHz PB Frequency Response Tape 20 kHz PB Frequency Response Tape	VTVM to Output Jacks	Same as above	Main P.C.B. R110 R210 R195 R295	<ol style="list-style-type: none"> 1. Load a 400 Hz level tape and play it back. Adjust the Output Level control to a certain level. 2. Load 10 kHz, 15 kHz and 20 kHz PB frequency response tapes and play them back. Adjust the record/playback head azimuth to obtain maximum readings for both channels on the VTVM with each tape. Short R110 (R210) or R195 (R295) on the Main P.C.B. Ass'y to obtain the following levels against the level for the 400 Hz level tape. 10 kHz: -20 dB -2 to $+2$ dB 15 kHz: -20 dB -2 to $+3$ dB 20 kHz: -20 dB -2 to $+4$ dB 3. Conduct step 4 "Record/Playback Head Azimuth Alignment".

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
7	Bias Oscillation Frequency and Erase Current Adjustment	None	Frequency Counter to CN2-2 on Tape Switch P.C.B. and VTVM across the additional 0.1 ohm resistor	Record, Pause Tape - ZX Eq. - 70 μ s Dolby NR - OFF MPX - OFF	Tape Switch P.C.B. T301 R318 R350	<ol style="list-style-type: none"> 1. Connect an additional 0.1 ohm resistor in series to the Erase Head and connect a VTVM across it. 2. Adjust T301 to obtain 105 kHz on the frequency counter. 3. Check the erase current by the VTVM. Erase current will be in a range of 310 mA to 400 mA (typically approx. 350 mA). If erase current is not sufficient, increase it by shorting either R318 or R350. 4. After completion of the erase current adjustment, re-check the bias oscillation frequency. 5. Remove the additional 0.1 ohm resistor.
8	Record Amplifier Equalizer Adjustment	21 kHz (-20 dB) to Input Jacks	VTVM to TP102, TP202 on Main P.C.B.	Same as above	Main P.C.B. L102 L202	<ol style="list-style-type: none"> 1. Short the bias cut points indicated in Fig. 4 with a clip to stop bias oscillation. 2. Adjust L102 (L202) to obtain peak reading at 21 kHz on the VTVM. 3. Remove the clip.
9	Bias Trap Adjustment (Record Amp.)	None (remove input signals)	VTVM to TP103, TP203 on Main P.C.B.	Same as above	Main P.C.B. L103 L203	Adjust L103 (L203) to obtain maximum reading on the VTVM.
10	Record Level Calibration and Recording Bias Current Adjustment	400 Hz (0 dB) and 15 kHz (-20 dB) to Input Jacks	VTVM and Distortion Meter to Output Jacks	Record and Playback Tape - ZX/SX/EX Eq. - 70 μ s (ZX/SX) 120 μ s (EX) Dolby NR - OFF MPX - OFF	Main P.C.B. (Level) ZX: VR102 VR202 SX: VR103 VR203 EX: VR104 VR204 Tape Switch P.C.B. (Bias) ZX: VR105 VR205 SX: VR106 VR206 EX: VR107 VR207	<p>Adjustment should be made in the order of ZX, SX and EX.</p> <ol style="list-style-type: none"> 1. Set the Output Level control to max. 2. Set the cassette deck in Record/Pause mode. 3. Feed in 400 Hz and adjust the Input Level controls to obtain 500 mV (0 dB) on the VTVM. 4. Load a reference ZX tape, reference SX/SX-E tape and reference EXII tape. 5. Feed in 400 Hz (0 dB) and record, rewind and play it back. Adjust VR102 (VR202) for ZX tape, VR103 (VR203) for SX/SX-E Tape and VR104 (VR204) for EXII tape so that the played back output levels are 500 mV (0 dB) on the VTVM. 6. Feed in 15 kHz (-20 dB) and record, rewind and play it back. Adjust VR105 (VR205) for ZX tape, VR106 (VR206) for SX/SX-E tape and VR107 (VR207) for EXII tape so that the played back output levels are 50 mV (-20 dB) on the VTVM. 7. Repeat above 5 and 6 two or three times. 8. Feed in 400 Hz (0 dB) and record, rewind and play it back. Check to insure whether the total harmonic distortion is less than 1.0% for ZX and EXII tapes and 1.2% for SX/SX-E tape. If the total harmonic distortion exceeds the specified value, repeat above steps till satisfactory results are obtained.

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
11	Overall Frequency Response Adjustment	400 Hz (0 dB) and 20 Hz to 17 kHz (-20 dB) to Input Jacks	VTVM to Output Jacks	Record and Playback Tape - ZX/SX/EX Eq. - 70 μ s (ZX/SX) 120 μ s (EX) Dolby NR - OFF MPX SW - OFF	Main P.C.B. L102 L202	<ol style="list-style-type: none"> 1. Set the cassette deck in Record/Pause mode. 2. Feed in 400 Hz and set the Input Level controls to obtain 500 mV (0 dB) on the VTVM. 3. Decrease the generator output control by 20 dB. 4. Feed in 20 Hz to 17 kHz (-20 dB), and record, rewind and play them back, then check to insure whether the output levels are within -20 dB \pm 4 dB. 5. If above is not sufficient, adjust L102 (L202) to obtain approx. -20 dB on the VTVM, then conduct step 10 "Record Level Calibration and Recording Bias Current Adjustment". 6. If above is not sufficient, precise re-adjustment of step 6 "Playback Frequency Response", replacement of Record/Playback Head or tape travelling check will be required.

5.2. Playback Frequency Response Adjustment

Figs. 5.1 and 5.2 show the playback amp. circuit for adjustment and the playback equalization curve.

This adjustment will be required if playback level is not sufficient when a 20 kHz PB frequency response tape is played back.

The peaking portion of the equalization curve compensates the gap loss of the playback head. Peaking level is varied by the short circuit of R110 (R210) or R195 (R295).

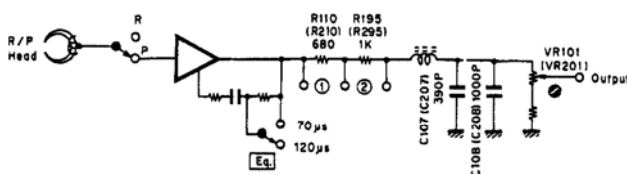


Fig. 5.1

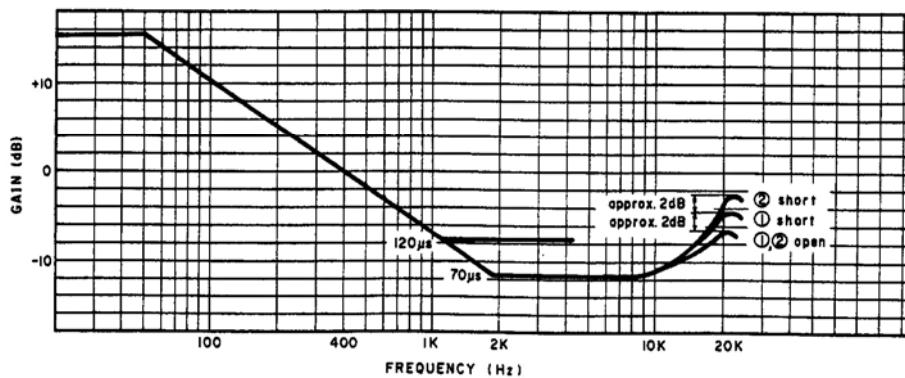


Fig. 5.2

6. MECHANISM ASS'Y AND PARTS LIST

6.1. Synthesis

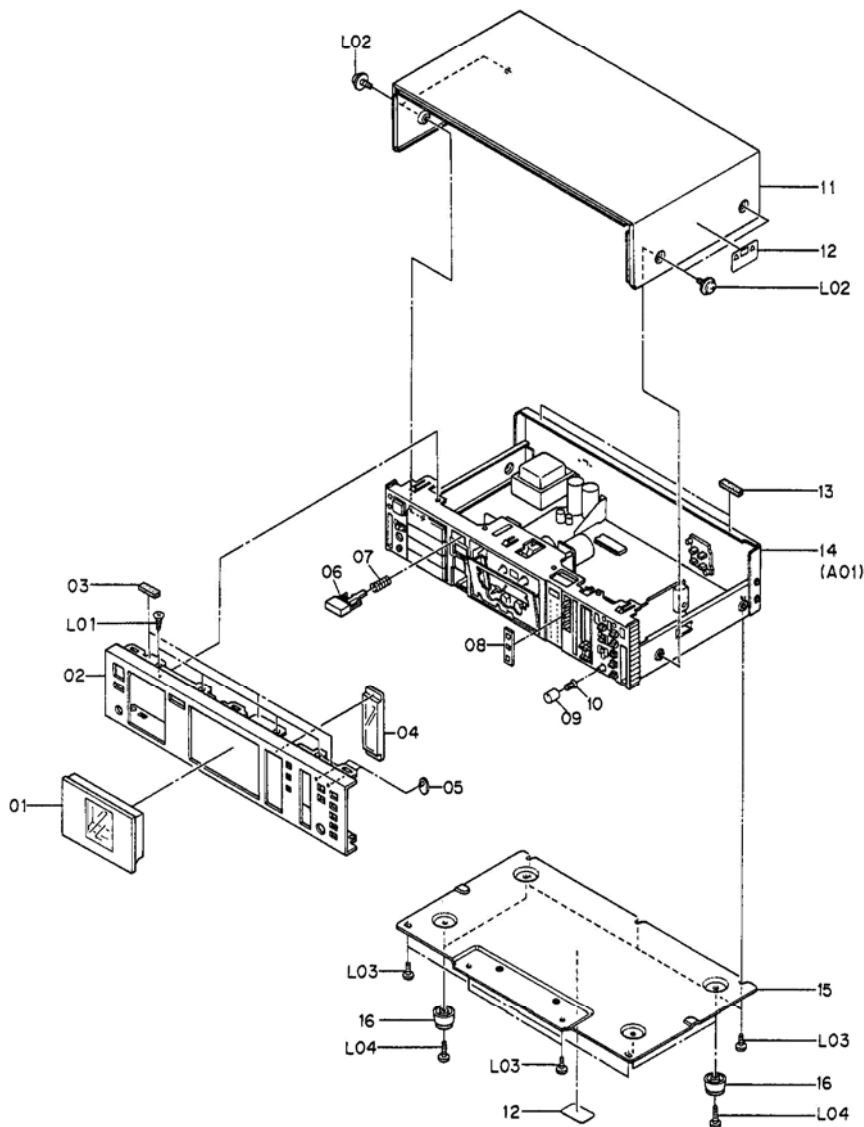


Fig. 6.1

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
		Synthesis Serial No.: A32201001 - (Silver)				Synthesis Serial No.: A32301001 - (Black)	
01	HA04494B	Cassette Case Cover Ass'y	1	01	HA04495B	Cassette Case Cover Ass'y	1
02	OH04582B	Front Panel Ass'y BX-125	1	02	OH04584B	Front Panel Ass'y BX-125	1
	OH04583B	Front Panel Ass'y BX-125E	1		OH04585B	Front Panel Ass'y BX-125E	1
03	OJ04628A	Top Cover Cushion (Front)	3	03	OJ04628A	Top Cover Cushion (Front)	3
04	OH04306A	Meter Cover	1	04	OH04307A	Meter Cover	1
05	OH04240A	LED Lens	2	05	OH04240A	LED Lens	2
06	HA04571A	Eject Button Ass'y	1	06	HA04570A	Eject Button Ass'y	1
07	OJ04765A	Spring	1	07	OJ04765A	Spring	1
08	OH04276A	Counter Escutcheon	1	08	OH04275A	Counter Escutcheon	1
09	OH04432B	Volume Knob	1	09	OH04342A	Volume Knob	1
10	OH03737A	Volume Knob Base	1	10	OH03737A	Volume Knob Base	1
11	OH04155B	Top Cover	1	11	OH04156B	Top Cover	1
12	OM04377B	Caution Label	2	12	OM04377B	Caution Label	2
13	OJ04629A	Top Cover Cushion (Back)	2	13	OJ04629A	Top Cover Cushion (Back)	2
14	—	Synthesis Mechanism Ass'y	1	14	—	Synthesis Mechanism Ass'y	1
15	OJ04762A	Bottom Cover	1	15	OJ04762A	Bottom Cover	1
16	OJ03564A	Leg T-H	4	16	OJ03564A	Leg T-H	4
L01	OE03054A	BT 3x8 @ Countersunk	4	L01	OE03054A	BT 3x8 @ Countersunk	4
L02	OE03033A	BT 4x8 @ Pan Washer-faced (Nickel)	4	L02	OE03032A	BT 4x8 @ Pan Washer-faced (Black Chromate)	4
L03	OE00868A	BT 3x8 @ Binding	7	L03	OE00868A	BT 3x8 @ Binding	7
L04	OE00865A	BT 3x10 @ Binding	4	L04	OE00865A	BT 3x10 @ Binding	4

6.2. Synthesis Mechanism Ass'y (A01)

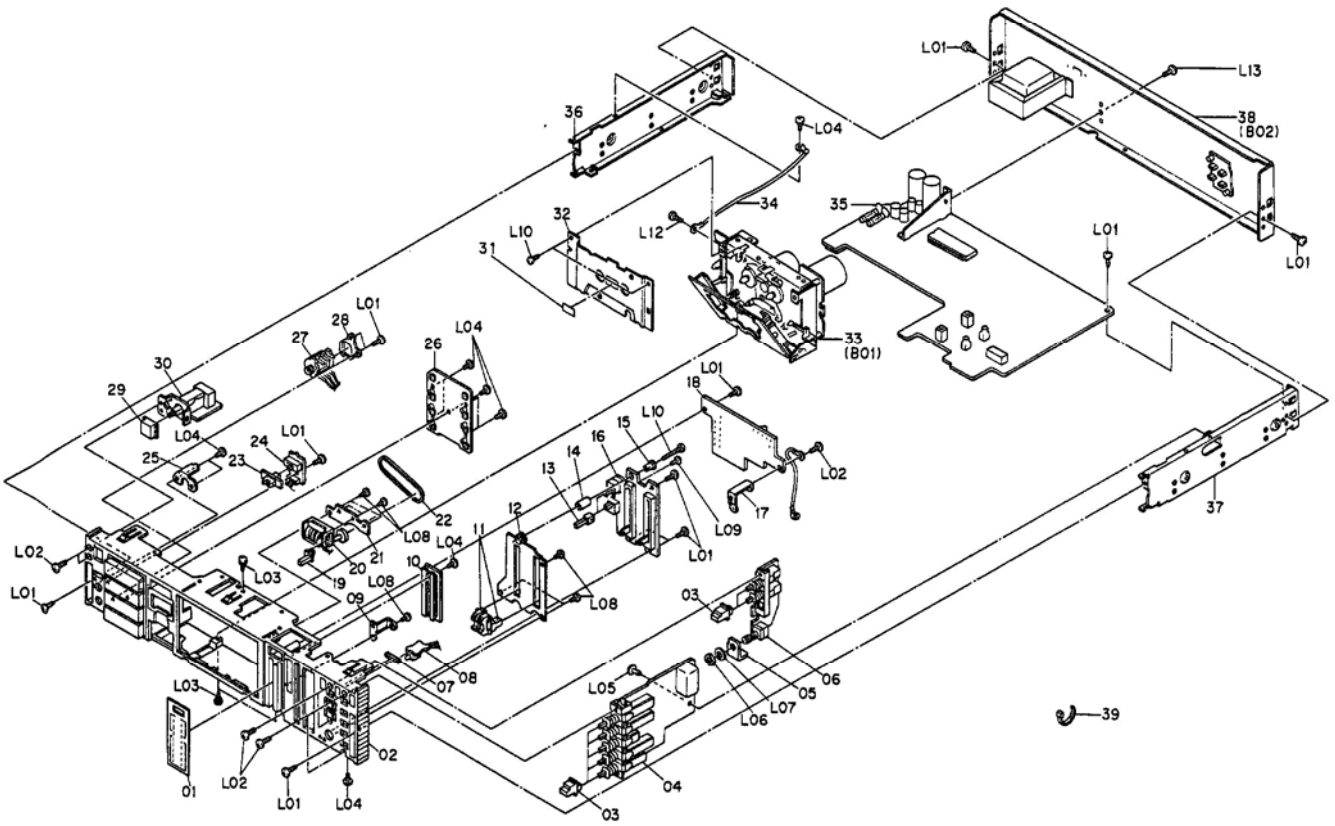


Fig. 6.2

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A01	—	Synthesis Mechanism Ass'y Serial No.: A32201001 - (Silver)	1	A01	—	Synthesis Mechanism Ass'y Serial No.: A32301001 - (Black)	1
01	OH04277A	Meter Scale	1	01	OH04278B	Meter Scale	1
02	HA04794A	Front Chassis Ass'y	1	02	HA04795A	Front Chassis Ass'y	1
03	OH04288A	Push Switch Button	7	03	OH04248A	Push Switch Button	7
04	BA05637A	Tape Switch P.C.B. Ass'y	1	04	BA05637A	Tape Switch P.C.B. Ass'y	1
05	OJ04838A	Holder	1	05	OJ04838A	Holder	1
06	BA05635A	Dolby NR Switch P.C.B. Ass'y	1	06	BA05635A	Dolby NR Switch P.C.B. Ass'y	1
07	OJ04984A	Cushion A	1	07	OJ04984A	Cushion A	1
08	BA05630A	LED P.C.B. Ass'y	1	08	BA05630A	LED P.C.B. Ass'y	1
09	OJ04767A	Memory Switch Holder	1	09	OJ04767A	Memory Switch Holder	1
10	BA05089A	Indicator Ass'y	1	10	BA05089A	Indicator Ass'y	1
11	OH04289A	Slide Volume Knob	2	11	OH04247B	Slide Volume Knob	2
12	OH04283B	Slide Volume Plate	1	12	OH04284B	Slide Volume Plate	1
13	OH04272A	Memory Switch Knob	2	13	OH04271A	Memory Switch Knob	2
14	OJ04703A	Bushing A	1	14	OJ04703A	Bushing A	1
15	OJ04704A	Bushing B	1	15	OJ04704A	Bushing B	1
16	BA05639A	Volume P.C.B. Ass'y	1	16	BA05639A	Volume P.C.B. Ass'y	1
17	OJ04840A	Indicator P.C.B. Holder	1	17	OJ04840A	Indicator P.C.B. Holder	1
18	BA05638A	Indicator P.C.B. Ass'y	1	18	BA05638A	Indicator P.C.B. Ass'y	1
19	OH04274A	Counter Knob	1	19	OH04273A	Counter Knob	1
20	OC08602A	Tape Counter	1	20	OC08602A	Tape Counter	1
21	OJ04764A	Counter Holder	1	21	OJ04764A	Counter Holder	1
22	OC08604A	Counter Belt	1	22	OC08604A	Counter Belt	1
23	OH04309A	Slide Switch Knob	1	23	OH04242A	Slide Switch Knob	1
24	BA05641A	Timer Switch P.C.B. Ass'y	1	24	BA05641A	Timer Switch P.C.B. Ass'y	1
25	OJ04843A	Timer Switch P.C.B. Holder	1	25	OJ04843A	Timer Switch P.C.B. Holder	1
26	BA05640A	Control Switch P.C.B. Ass'y	1	26	BA05640A	Control Switch P.C.B. Ass'y	1
27	OB08511A	Headphone Jack	1	27	OB08511A	Headphone Jack	1
28	OJ04611A	Headphone Plate	1	28	OJ04611A	Headphone Plate	1
29	OH04290A	Power Switch Button	1	29	OH04243A	Power Switch Button	1
30	BA05230A	Power Switch P.C.B. Ass'y BX-125 (U.S.A. & Canada)	1	30	BA05230A	Power Switch P.C.B. Ass'y BX-125 (U.S.A. & Canada)	1
	BA05231A	Power Switch P.C.B. Ass'y BX-125 (Japan)	1	BA05231A	Power Switch P.C.B. Ass'y BX-125 (Japan)	1	
	BA05229A	Power Switch P.C.B. Ass'y BX-125 (Australia & Others) & BX-125E	1	BA05229A	Power Switch P.C.B. Ass'y BX-125 (Australia & Others) & BX-125E	1	
31	OM04196A	Cassette Label (Silver)	1	31	OM04392A	Cassette Label (Gold)	1
32	OH04154C	Cover Plate	1	32	OH04154C	Cover Plate	1
33	CA08498A	Mechanism Ass'y	1	33	CA08498A	Mechanism Ass'y	1
34	BA05131A	Earth Wire	1	34	BA05131A	Earth Wire	1
35	BA05627A	Main P.C.B. Ass'y BX-125	1	35	BA05627A	Main P.C.B. Ass'y BX-125	1
	BA02757A-E	Main P.C.B. Ass'y BX-125E	1		BA02757A-E	Main P.C.B. Ass'y BX-125E	1
36	OJ04603F	Side Chassis L	1	36	OJ04603F	Side Chassis L	1
37	OJ04773D	Side Chassis R	1	37	OJ04773D	Side Chassis R	1
38	HA04759B	Rear Panel Ass'y BX-125 (U.S.A.)	1	38	HA04764A	Rear Panel Ass'y BX-125 (U.S.A.)	1
	HA04791A	Rear Panel Ass'y BX-125 (Japan)	1		HA04792A	Rear Panel Ass'y BX-125 (Japan)	1
	HA04760A	Rear Panel Ass'y BX-125 (Others)	1		HA04765A	Rear Panel Ass'y BX-125 (Others)	1
	HA04761A	Rear Panel Ass'y BX-125 (Australia)	1		HA04766A	Rear Panel Ass'y BX-125 (Australia)	1
	HA04771B	Rear Panel Ass'y BX-125 (Canada)	1		HA04772A	Rear Panel Ass'y BX-125 (Canada)	1
	HA04758A	Rear Panel Ass'y BX-125E (UK)	1		HA04763A	Rear Panel Ass'y BX-125E (UK)	1
	HA04762A	Rear Panel Ass'y BX-125E (220V Class 2)	1		HA04767A	Rear Panel Ass'y BX-125E (220V Class 2)	1
39	OB08515A	Insu-Lock	14	39	OB08515A	Insu-Lock	14
—	OJ04581A	Counter Cushion	3	—	OJ04581A	Counter Cushion	3
—	OB08525A	Fuse 2A 250V BX-125 (U.S.A., Canada & Others)	2	—	OB08525A	Fuse 2A 250V BX-125 (U.S.A., Canada & Others)	2
—	OB08854A	Fuse 2A BX-125 (Japan)	2	—	OB08854A	Fuse 2A BX-125 (Japan)	2
—	OB08347U	Fuse T1A 250V BX-125 (Australia) & BX-125E	2	—	OB08347U	Fuse 1AT 250V BX-125 (Australia) & BX-125E	2
—	OM04131B	Fuse Label T1A BX-125 (Australia) & BX-125E	1	—	OM04131B	Fuse Label 1AT BX-125 (Australia) & BX-125E	1
—	OB08349B	Fuse Clip BX-125 (Australia) & BX-125E	4	—	OB08349B	Fuse Clip BX-125 (Australia) & BX-125E	4
L01	OE00868A	BT 3x8 @ Binding	15	L01	OE00868A	BT 3x8 @ Binding	15
L02	OE00766A	M3x8 @ Binding	7	L02	OE00766A	M3x8 @ Binding	7
L03	OE03074A	BT 2.6x8 @ Binding with Toothed- Lock Washer	3	L03	OE03074A	BT 2.6x8 @ Binding with Toothed- Lock Washer	3
L04	OE00857A	BT 3x6 @ Binding	10	L04	OE00857A	BT 3x6 @ Binding	10
L05	OB08583A	Plastic Rivet	1	L05	OB08583A	Plastic Rivet	1
L06	—	Nut	(1)	L06	—	Nut	(1)
L07	—	Washer	(1)	L07	—	Washer	(1)
L08	OE00859A	BT 2.6x6 @ Binding	8	L08	OE00859A	BT 2.6x6 @ Binding	8
L09	OE03070A	M2.6x6 @ Binding	1	L09	OE03070A	M2.6x6 @ Binding	1
L10	OE00835A	BT 3x25 @ Pan	1	L10	OE00835A	BT 3x25 @ Pan	1
L11	OE00824A	BT 2.6x6 @ Pan (Black Chromate)	2	L11	OE00824A	BT 2.6x6 @ Pan (Black Chromate)	2
L12	OE00954A	BT 2.6x8 @ Binding	1	L12	OE00954A	BT 2.6x8 @ Binding	1
L13	OE03028A	BT 3x8 @ Binding (Nickel)	1	L13	OE00921A	BT 3x8 @ Binding (Black Chromate)	1

6.3. Mechanism Ass'y (B01)

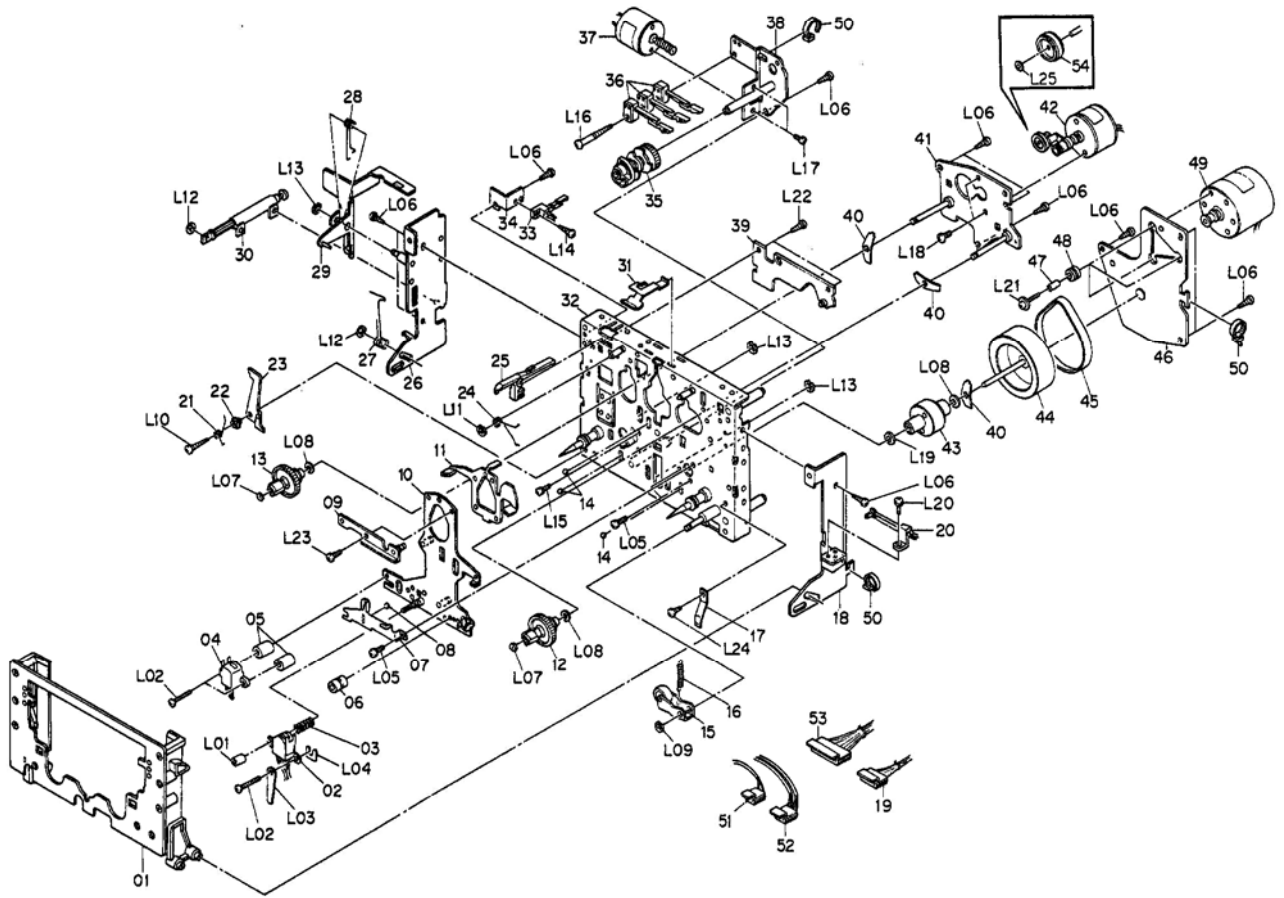


Fig. 6.3

Schematic Ref. No.	Part No.	Description	Qty
B01	CA08498A	Mechanism Ass'y Serial No.: A322.301001 -	1
01	CA80001A	Cassette Case Ass'y	1
02	OG01371A	Record/Playback Head RP-2G	1
03	OC80001A	Azimuth Adjust Spring	1
04	OG01365A	Erase Head E-2D	1
05	OC80044A	Erase Head Collar	2
06	OC80045A	Record/Playback Head Collar	1
07	OC80003A	Head Base Hold Plate	1
08	OC80004A	Steel Ball 3mm	1
09	OC80005A	Reinforcement Plate	1
10	OC80006A	Head Base	1
11	CA80002A	Brake Ass'y	1
12	CA80003B	Take-up Reel Hub Ass'y	1
13	CA80004B	Supply Reel Hub Ass'y	1
14	OC80007A	Steel Ball 2mm	3
15	CA80005A	Pressure Roller Ass'y	1
16	OC80008A	Pressure Roller Spring	1
17	OC80009A	Cassette Case Spring	1
18	OC80010C	Cassette Case Holder R	1
19	OC80043A	5P-H Connector	1
20	OC80012A	Eject Sensor	1
21	OC80013A	Lock Lever Spring	1
22	OC80014A	Lock Lever Collar	1
23	OC80015B	Lock Lever	1
24	OC80016A	Brake Spring	1
25	OC80017A	Record Protector Lever	1
26	OC80018A	Cassette Case Holder L	1
27	OC80019B	Eject Spring	1
28	OC80020A	Eject Lever Spring	1
29	OC80021A	Eject Lever	1
30	CA80006A	Pneumatic Damper Ass'y	1
31	OC80022B	Cassette Hold Spring	1
32	OC80023A	Mechanism Chassis	1
33	OC80024A	Record Protector	1
34	OC80025A	Record Protector Holder	1
35	OC80026A	Cam	1
36	OC80027A	Mode Switch	3
37	CA80007A	Control Motor Ass'y	1
38	OC80028A	Control Motor Holder	1
39	CA80011A	Shut-off P.C.B. Ass'y	1
40	OC80029A	Back Tension Spring	3
41	OC80030A	Reel Motor Holder	1
42	CA80008B	Reel Motor Ass'y	1
43	OC80031A	Capstan Flange	1
44	OC80033A	Flywheel	1
45	OC80034A	Capstan Belt	1
46	CA80009A	Flywheel Holder Ass'y	1
47	OC80035A	Sleeve	3
48	OC80036A	Floating Rubber	3
49	CA80010A	Capstan Motor Ass'y	1
50	OC80037A	Insu-Lock	3
51	OC80040A	2P-H Connector	1
52	OC80041A	4P-H Connector	1
53	OC80042A	9P-H Connector	1
54	OC80635B	Idler Pulley	1
L01	OC80046A	Azimuth Alignment Screw	1
L02	OE03038A	M2x12 @ Binding	3
L03	OE03053A	Wire Holder	1
L04	OC80048A	Shim 0.03T	(1)
	OC80038A	Shim 0.06T	(1)
	OC80039A	Shim 0.1T	(1)
L05	OE03046A	M2.6x6 @ Pan (2A)	3
L06	OE03042A	FT 2.5x5 @ Pan	13
L07	OE03049A	Washer 1.8mm	2
L08	OE03050A	Washer 3.1mm	3
L09	OE00222A	E-Ring 2mm	1
L10	OE03043A	FT 2.5x10 @ Pan	1
L11	OE00698A	E-Ring 2.5mm	1
L12	OE03052A	Stopper Ring 2.4mm	2
L13	OE00181A	E-Ring 3mm	3
L14	OE03048A	FT 2.6x6 @ Pan	1
L15	OE03036A	M2x4 @ Pan (2A)	1
L16	OE03044A	FT 2.5x20 @ Pan	1
L17	OE00691A	M2x3 @ Pan	2
L18	OE03045A	M2.6x3 @ Binding	2
L19	OE03051A	Washer 2.5mm	1
L20	OE03037A	M2x5 @ Pan (2A)	1
L21	OE03047A	M2.6x9 @ Pan	3
L22	OE03041A	FT 2.5x4 @ Pan	2
L23	OE03040A	FT 2.5x3.5 @ Pan	1
L24	OE03035A	M2x3.2 @ Truss	1
L25	OE03245A	Mylar Washer 1.3x3.3x0.3	1

6.4. Rear Panel Ass'y (B02)

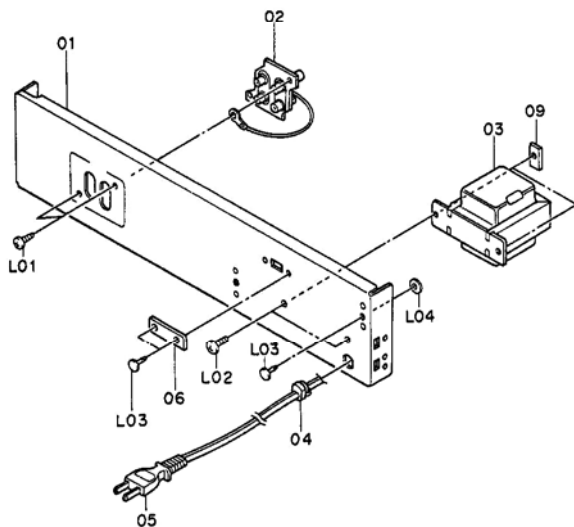
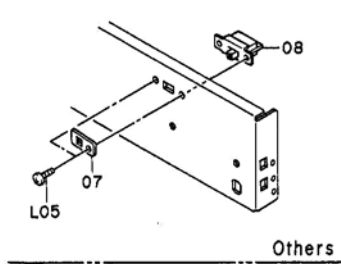


Fig. 6.4

Schematic Ref. No.	Part No.	Description	Q'ty
B02	HA04759B	Rear Panel Ass'y BX-125 (U.S.A.)	1
	HA04771B	Rear Panel Ass'y BX-125 (Canada)	1
	HA04761A	Rear Panel Ass'y BX-125 (Australia)	1
	HA04791A	Rear Panel Ass'y BX-125 (Japan)	1
	HA04760A	Rear Panel Ass'y BX-125 (Others)	1
	HA04758A	Rear Panel Ass'y BX-125E (UK)	1
	HA04762A	Rear Panel Ass'y BX-125E (220V Class 2) Serial No.: A32201001 - (Silver)	1
01	OH04586A	Rear Panel BX-125	1
	OH04587A	Rear Panel BX-125E	1
02	BA05087A	4P Pin Jack Ass'y (Consists of the followings)	1
	(OB81001A)	(4P Pin Jack)	(1)
	(OE00037A)	(Earth Lug)	(1)
03	OB50040A	Power Transformer BX-125 (U.S.A. & Canada)	1
	OB50009B	Power Transformer BX-125 (Australia) & BX-125E	1
	OB50011B	Power Transformer BX-125 (Japan)	1
	OB50010B	Power Transformer BX-125 (Others)	1
04	OB08037U	Cord Bushing C BX-125 (U.S.A., Australia, Others & Japan) & BX-125E (220V Class 2)	1
	OB08351A	Cord Bushing 4K-4 BX-125 (Canada) & BX-125E (UK)	1

Schematic Ref. No.	Part No.	Description	Q'ty	
05	OB08533A	Power Cord BX-125 (U.S.A. & Others)	1	
	OB08504A	Power Cord BX-125 (Canada)	1	
	OB05241A	Power Cord BX-125 (Australia)	1	
	OB08219B	Power Cord BX-125 (Japan)	1	
	OB08348A	Power Cord BX-125E (UK)	1	
	OB08093U	Power Cord BX-125E (220V Class 2)	1	
	06	0J04622B	Switch Cover BX-125 (U.S.A., Canada, Australia & Japan) & BX-125E	1
		07	0M04407A	Voltage Lock Plate BX-125 (Others)
	08	OB07092U	Voltage Selector BX-125 (Others)	1
	09	OC01162B	Bolt Receptacle Plate BX-125 (U.S.A. & Canada)	2
L01	OE03028A	BT 3x8 @ Binding (Nickel)	2	
L02	OE03034A	M4x8 @ Binding (Nickel) BX-125 (U.S.A. & Canada)	2	
	OE00897A	ST 4x8 @ Binding (Nickel) BX-125 (Australia, Others & Japan) & BX-125E	2	
L03	OB08583A	Plastic Rivet	3	
L04	OE00637A	Washer 3.3x7x0.5	1	
L05	OE03031A	M3x8 @ Binding (Nickel) BX-125 (Others)	2	
B02	HA04764A	Rear Panel Ass'y BX-125 (U.S.A.)	1	
	HA04772A	Rear Panel Ass'y BX-125 (Canada)	1	
	HA04766A	Rear Panel Ass'y BX-125 (Australia)	1	
	HA04792A	Rear Panel Ass'y BX-125 (Japan)	1	
	HA04765A	Rear Panel Ass'y BX-125 (Others)	1	
	HA04763A	Rear Panel Ass'y BX-125E (UK)	1	
	HA04767A	Rear Panel Ass'y BX-125E (220V Class 2) Serial No.: A32301001 - (Black)	1	
	01	OH04588A	Rear Panel BX-125	1
		OH04589A	Rear Panel BX-125E	1
	02	BA05087A	4P Pin Jack Ass'y (Consists of the followings)	1
		(OB81001A)	(4P Pin Jack)	(1)
		(OE00037A)	(Earth Lug)	(1)
	03	OB50040A	Power Transformer BX-125 (U.S.A. & Canada)	1
		OB50009B	Power Transformer BX-125 (Australia) & BX-125E	1
		OB50011B	Power Transformer BX-125 (Japan)	1
		OB50010B	Power Transformer BX-125 (Others)	1
	04	OB08037U	Cord Bushing C BX-125 (U.S.A., Australia, Others & Japan) & BX-125E (220V Class 2)	1
		OB08351A	Cord Bushing 4K-4 BX-125 (Canada) & BX-125E (UK)	1
	05	OB08533A	Power Cord BX-125 (U.S.A. & Others)	1
		OB08504A	Power Cord BX-125 (Canada)	1
		OB05241A	Power Cord BX-125 (Australia)	1
		OB08219B	Power Cord BX-125 (Japan)	1
		OB08348A	Power Cord BX-125E (UK)	1
	OB08093U	Power Cord BX-125E (220V Class 2)	1	
06	0J04601B	Switch Cover BX-125 (U.S.A., Canada, Australia & Japan) & BX-125E	1	
07	0M03948A	Voltage Lock Plate BX-125 (Others)	1	
08	OB07092U	Voltage Selector BX-125 (Others)	1	
09	OC01162B	Bolt Receptacle Plate BX-125 (U.S.A. & Canada)	2	
L01	OE00921A	BT 3x8 @ Binding (Black Chromate)	2	
L02	OE03034A	M4x8 @ Binding (Black Chromate) BX-125 (U.S.A. & Canada)	2	
	OE00907A	ST 4x8 @ Binding (Black Chromate) BX-125 (Australia, Others & Japan) & BX-125E	2	
L03	OB08583A	Plastic Rivet	3	
L04	OE00637A	Washer 3.3x7x0.5	1	
L05	OE00818A	M3x8 @ Binding (Black Chromate) BX-125 (Others)	2	

7. MOUNTING DIAGRAMS AND PARTS LIST

- Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.
 2. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 3. Following transistors are interchangeable with each other.
 a. 2SA733, 2SA608SP, 2SA1048, 2SA1175
 b. 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, CF — Film Capacitor, C — Mica Capacitor

7.1. Power Switch P.C.B. Ass'y

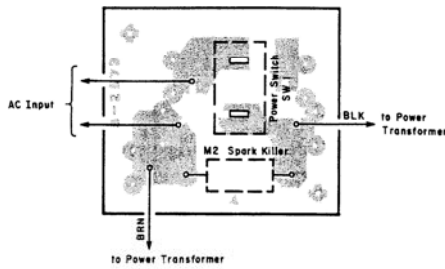


Fig. 7.1

7.3. Timer Switch P.C.B. Ass'y

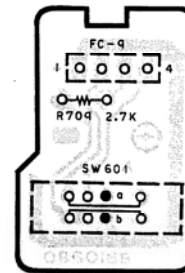


Fig. 7.3

7.2. LED P.C.B. Ass'y

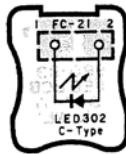


Fig. 7.2

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

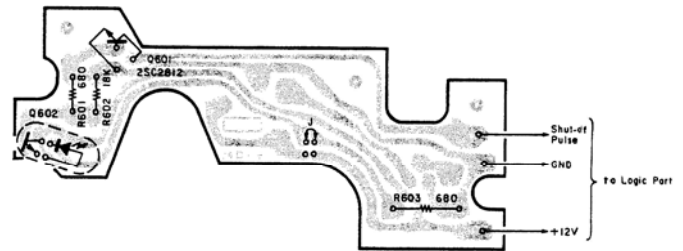


Fig. 7.4

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05626A	Set P.C.B. Ass'y BX-125		BA05230A	Power Switch P.C.B. Ass'y BX-125 (U.S.A. & Canada)		BA05641A	Timer Switch P.C.B. Ass'y
	BA05627A	Main P.C.B. Ass'y BX-125		BA05231A	Power Switch P.C.B. Ass'y BX-125 (Japan)	R709 SW601 FC9	OB60189A	Timer Switch P.C.B.
	BA05630A	LED P.C.B. Ass'y		BA05229A	Power Switch P.C.B. Ass'y BX-125 (Australia & Others) & BX-125E		OB09687A	RK 2.7K 1/6W J
	BA05635A	Dolby NR Switch P.C.B. Ass'y					OB07437A	Slide Switch 2-3
	BA05637A	Tape Switch P.C.B. Ass'y					OB81011A	Dip Mate 4P (1)
	BA05638A	Indicator P.C.B. Ass'y		OB02573D	Power Switch P.C.B.	Q601	CA80011A	Shut-off P.C.B. Ass'y
	BA05639A	Volume P.C.B. Ass'y	SW1	OB70002A	Power Switch	Q602	OC80047A	Shut-off P.C.B.
	BA05640A	Control Switch P.C.B. Ass'y	M2	OB08342A	Spark Killer BX-125 (U.S.A. & Canada)		OB06388A	TR 2SC2812
	BA05641A	Timer Switch P.C.B. Ass'y	M2	OB08363A	Spark Killer BX-125 (Japan)	R601,603 R602	OB06389A	Photo Reflector NJL5141
			M2	OB08445A	Spark Killer BX-125 (Australia & Others) & BX-125E		OB09840A	RK 680 Leadless
	BA05626A-E	Set P.C.B. Ass'y BX-125E		OB90059A	Spark Killer Cover BX-125 (Australia & Others) & BX-125E (1)		OB09841A	RK 18K Leadless
	BA05627A-E	Main P.C.B. Ass'y BX-125E						
	BA05630A	LED P.C.B. Ass'y		OJ04763A	Power Switch Holder (1)			
	BA05635A	Dolby NR Switch P.C.B. Ass'y		OE00612A	M3x6 ⊕ Pan (2A) (2)			
	BA05637A	Tape Switch P.C.B. Ass'y		OE00752A	Eyelet 2x3 (2)			
	BA05638A	Indicator P.C.B. Ass'y		BA05630A	LED P.C.B. Ass'y			
	BA05639A	Volume P.C.B. Ass'y		OB60183A	LED P.C.B.			
	BA05640A	Control Switch P.C.B. Ass'y	LED302	OB06333A	LED Red TLR124A			
	BA05641A	Timer Switch P.C.B. Ass'y		OB81065A	Wire Mate 2P (1)			
				OB82116B	Ribbon Cable 2P (1)			

7.5. Dolby NR Switch P.C.B. Ass'y

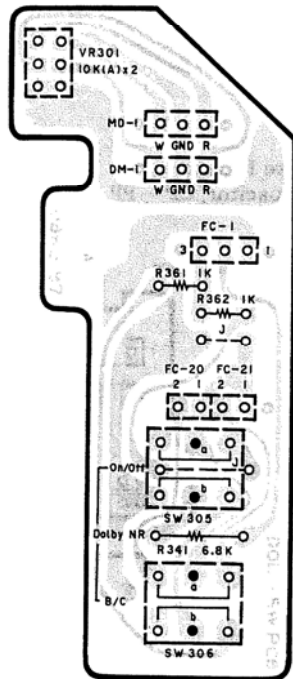


Fig. 7.5

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

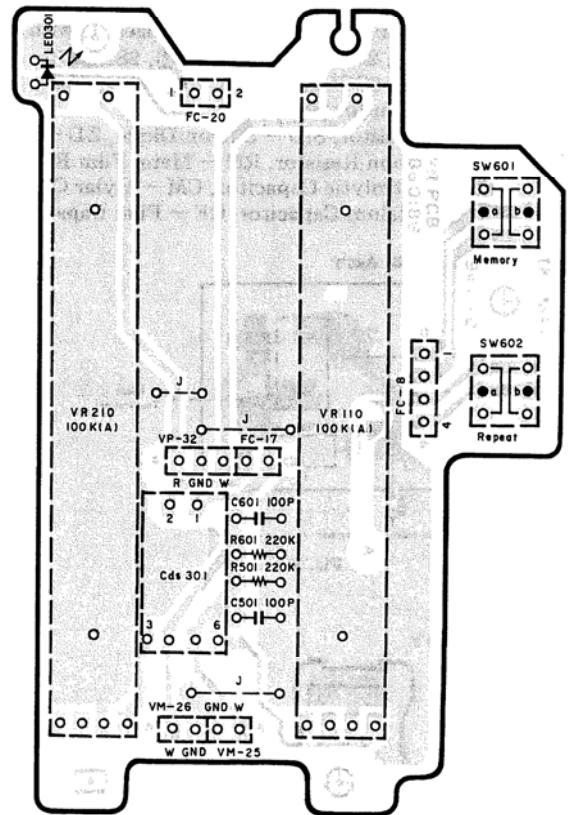


Fig. 7.6

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

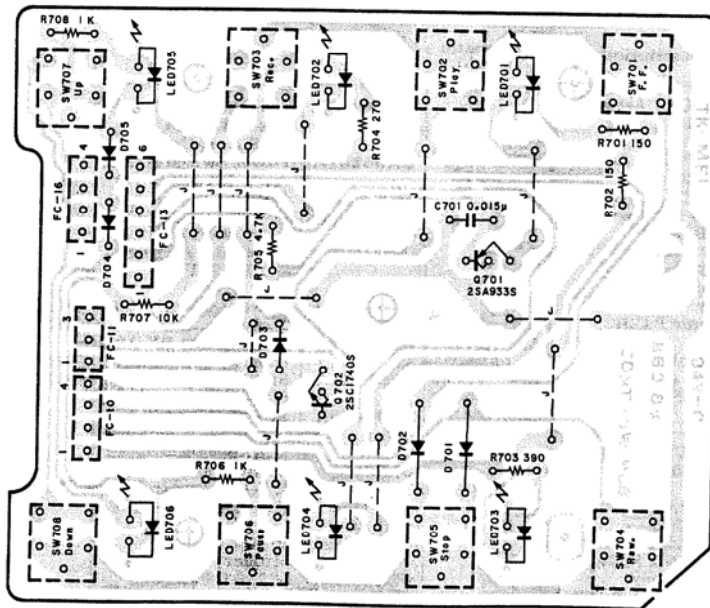


Fig. 7.7

7.8. Tube Switch P.C.B. Assy

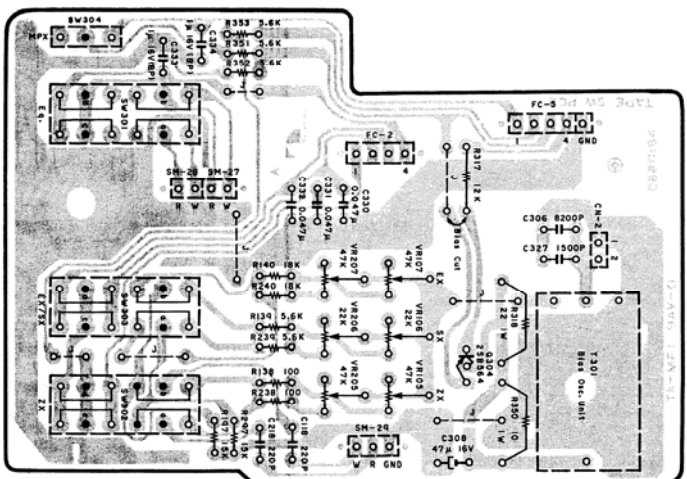


FIG. 7.8

7.9. Indicator P.C.B. Assy

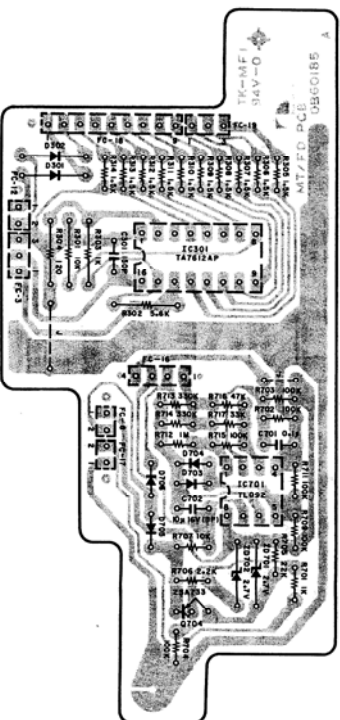


FIG. 7.9

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
VB301	OB60187A	Dolby NR Switch P.C.B. Assy	IC301	OB60188A	Indicator P.C.B. Assy
R341 269	OB30036A	VR 10K (A)X2	IC701	OB06369A	IC T7A7G12AP
OB30036A	OB10922A	RK 62K 1/6W J	OB06181A	OB11031A	IC T7A7G12AP
OB30036A	OB370027A	Push Switch 2-Key	OB06181A	ZD 2.7V 1A2JE	ZD 2.7V 1A2JE
FC1M01	OB81010A	Dip Mate 3P (3)	D301.302	OB06181A	SID 18S53
DM1	OB02349A	JP Connector 4P (1)	D703.706	OB06398A	SID 18S176 (4)
FC20/21	BA06689A	Volume P.C.B. Assy	R301	OB01888A	RK 10K 1/4W J
			R302	OB01887A	RK 52K 1/4W J
			R303	OB01887A	RK 52K 1/4W J
			R304	OB09787A	RK 150 1/4W J
			R305-314	OB09681A	RK 15K 1/6W J
					(10)
LED301	OB60186A	Volume P.C.B. LED Red TLR124A	OB09778A	OB09877A	RK 1K 1/6W J
OB60339A	OB06339A	Photoconductor 214F	OB09728A	OB09728A	RK 100K 1/6W J
VB110.210	OB31002A	Slide VR 100K (A)	OB09709A	OB09709A	RK 22K 1/6W J
R501.601	OB09733A	RK 220K 1/6W (A)	OB09688A	OB09688A	RK 22K 1/6W J
OB01.601	OB09282A	CC 100P 50V K	OB09701A	OB09701A	RK 10K 1/6W J
OB01.602	OB07462A	Push Switch	OB09749A	OB09749A	RK 15K 1/6W J
VB15/5/96	OB81011A	Dip Mate 4P (2)	OB09717A	OB09717A	RK 15K 1/6W J
FC17/FP32	OB81012A	Dip Mate 5P (1)	OB09713A	OB09713A	RK 47K 1/6W J
FC20	OB81002A	Dip Mate 2P (1)	OB09281A	OB09281A	CC 180P 50V K
			C701	OB09868A	CE 0.1u 50V J
			C702	OB09163A	CE 10u 16V (BP)
			C703	OB09163A	CE 10u 16V (BP)
			FC18/19	OB81011A	Dip Mate 4P (2)
					(1)
Q701	OB60188A	Control Switch P.C.B. Assy			
OB10026A	OB10026A	Control Switch P.C.B.			
OB10039A	OB10039A	TR (Q.A.S) TR (S.E) 7408			
Q702	OB06334A	LED Green TLR124A			
LED701	OB06333A	LED Red TLR124A			
703.704	OB06334A	LED Green TLR124A			
LED702	OB06333A	LED Red TLR124A			
705.706	OB06181A	SID 18S176			
D701.702	OB09858A	SID 18S176			
D702.704	OB09857A	RK 150 1/6W J			
705	OB09857A	RK 390 1/6W J			
R701.702	OB09858A	RK 270 1/6W J			
R702	OB09858A	RK 270 1/6W J			
R703	OB09857A	RK 15K 1/6W J			
R704	OB09857A	RK 15K 1/6W J			
R705	OB09857A	RK 15K 1/6W J			
R706	OB09857A	RK 15K 1/6W J			
R707	OB09857A	RK 15K 1/6W J			
R708	OB09857A	RK 15K 1/6W J			
R709	OB09857A	RK 15K 1/6W J			
R710	OB09857A	RK 15K 1/6W J			
R711	OB09857A	RK 15K 1/6W J			
R712	OB09857A	RK 15K 1/6W J			
R713	OB09857A	RK 15K 1/6W J			
R714	OB09857A	RK 15K 1/6W J			
R715	OB09857A	RK 15K 1/6W J			
R716	OB09857A	RK 15K 1/6W J			
R717	OB09857A	RK 15K 1/6W J			
R718	OB09857A	RK 15K 1/6W J			
R719	OB09857A	RK 15K 1/6W J			
R720	OB09857A	RK 15K 1/6W J			
R721	OB09857A	RK 15K 1/6W J			
R722	OB09857A	RK 15K 1/6W J			
R723	OB09857A	RK 15K 1/6W J			
R724	OB09857A	RK 15K 1/6W J			
R725	OB09857A	RK 15K 1/6W J			
R726	OB09857A	RK 15K 1/6W J			
R727	OB09857A	RK 15K 1/6W J			
R728	OB09857A	RK 15K 1/6W J			
R729	OB09857A	RK 15K 1/6W J			
R730	OB09857A	RK 15K 1/6W J			
R731	OB09857A	RK 15K 1/6W J			
R732	OB09857A	RK 15K 1/6W J			
R733	OB09857A	RK 15K 1/6W J			
R734	OB09857A	RK 15K 1/6W J			
R735	OB09857A	RK 15K 1/6W J			
R736	OB09857A	RK 15K 1/6W J			
R737	OB09857A	RK 15K 1/6W J			
R738	OB09857A	RK 15K 1/6W J			
R739	OB09857A	RK 15K 1/6W J			
R740	OB09857A	RK 15K 1/6W J			
R741	OB09857A	RK 15K 1/6W J			
R742	OB09857A	RK 15K 1/6W J			
R743	OB09857A	RK 15K 1/6W J			
R744	OB09857A	RK 15K 1/6W J			
R745	OB09857A	RK 15K 1/6W J			
R746	OB09857A	RK 15K 1/6W J			
R747	OB09857A	RK 15K 1/6W J			
R748	OB09857A	RK 15K 1/6W J			
R749	OB09857A	RK 15K 1/6W J			
R750	OB09857A	RK 15K 1/6W J			
R751	OB09857A	RK 15K 1/6W J			
R752	OB09857A	RK 15K 1/6W J			
R753	OB09857A	RK 15K 1/6W J			
R754	OB09857A	RK 15K 1/6W J			
R755	OB09857A	RK 15K 1/6W J			
R756	OB09857A	RK 15K 1/6W J			
R757	OB09857A	RK 15K 1/6W J			
R758	OB09857A	RK 15K 1/6W J			
R759	OB09857A	RK 15K 1/6W J			
R760	OB09857A	RK 15K 1/6W J			
R761	OB09857A	RK 15K 1/6W J			
R762	OB09857A	RK 15K 1/6W J			
R763	OB09857A	RK 15K 1/6W J			
R764	OB09857A	RK 15K 1/6W J			
R765	OB09857A	RK 15K 1/6W J			
R766	OB09857A	RK 15K 1/6W J			
R767	OB09857A	RK 15K 1/6W J			
R768	OB09857A	RK 15K 1/6W J			
R769	OB09857A	RK 15K 1/6W J			
R770	OB09857A	RK 15K 1/6W J			
R771	OB09857A	RK 15K 1/6W J			
R772	OB09857A	RK 15K 1/6W J			
R773	OB09857A	RK 15K 1/6W J			
R774	OB09857A	RK 15K 1/6W J			
R775	OB09857A	RK 15K 1/6W J			
R776	OB09857A	RK 15K 1/6W J			
R777	OB09857A	RK 15K 1/6W J			
R778	OB09857A	RK 15K 1/6W J			
R779	OB09857A	RK 15K 1/6W J			
R780	OB09857A	RK 15K 1/6W J			
R781	OB09857A	RK 15K 1/6W J			
R782	OB09857A	RK 15K 1/6W J			
R783	OB09857A	RK 15K 1/6W J			
R784	OB09857A	RK 15K 1/6W J			
R785	OB09857A	RK 15K 1/6W J			
R786	OB09857A	RK 15K 1/6W J			
R787	OB09857A	RK 15K 1/6W J			
R788	OB09857A	RK 15K 1/6W J			
R789	OB09857A	RK 15K 1/6W J			
R790	OB09857A	RK 15K 1/6W J			
R791	OB09857A	RK 15K 1/6W J			
R792	OB09857A	RK 15K 1/6W J			
R793	OB09857A	RK 15K 1/6W J			
R794	OB09857A	RK 15K 1/6W J			
R795	OB09857A	RK 15K 1/6W J			
R796	OB09857A	RK 15K 1/6W J			
R797	OB09857A	RK 15K 1/6W J			
R798	OB09857A	RK 15K 1/6W J			
R799	OB09857A	RK 15K 1/6W J			
R800	OB09857A	RK 15K 1/6W J			
R801	OB09857A	RK 15K 1/6W J			
R802	OB09857A	RK 15K 1/6W J			
R803	OB09857A	RK 15K 1/6W J			
R804	OB09857A	RK 15K 1/6W J			
R805	OB09857A	RK 15K 1/6W J			
R806	OB09857A	RK 15K 1/6W J			
R807	OB09857A	RK 15K 1/6W J			
R808	OB09857A	RK 15K 1/6W J			
R809	OB09857A	RK 15K 1/6W J			
R810	OB09857A	RK 15K 1/6W J			
R811	OB09857A	RK 15K 1/6W J			
R812	OB09857A	RK 15K 1/6W J			
R813	OB09857A	R			

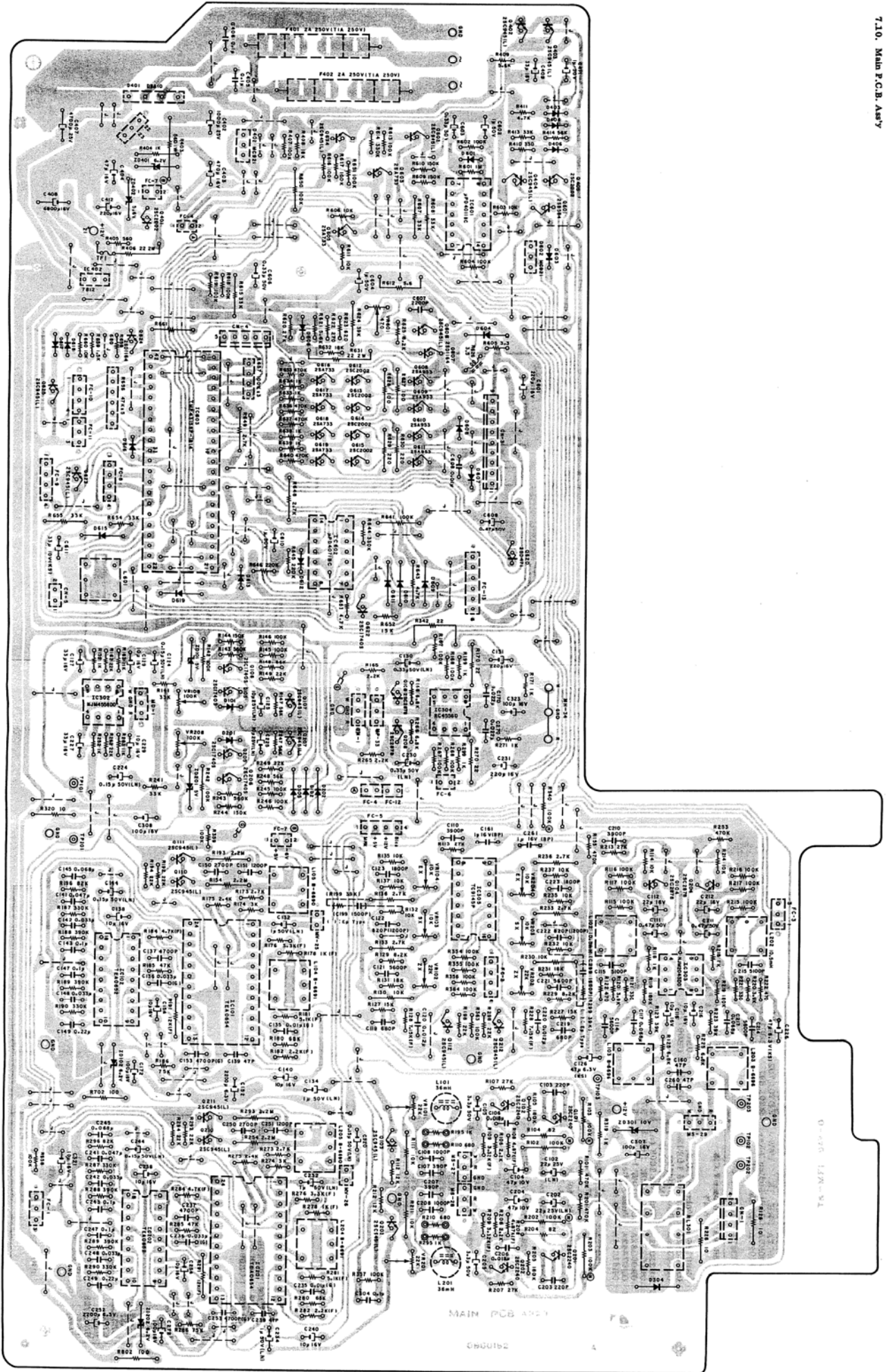


FIG. 7.10

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
Q101.102	BA05627A	Main P.C.B. Assy	R354.355	OB09125A	RK 100K 1/6W J	R141.341	OB09113A	RK 33K 1/6W J	Q401.405	OB09677A	RK 1K 1/6W J
Q101.202	— EB Eq. Amp. —		R354.356			R141.342	OB09114A	RK 100K 1/4W J	Q402.403	OB09678A	RK 100K 1/4W J
Q101.202	OB06142A	TR 25C2340 (BL)	R354.359	OB05571A	CM 680P 50V J	R141.343	OB09115A	RK 500K 1/6W J	Q402.404	OB09679A	RK 22K 1/6W J
Q101.203	OB01872A	TR 25C945L (P,Q)	R354.360	OB05572A	CM 0.012M 50V J	R141.344	OB09116A	RK 150K 1/6W J	Q402.405	OB09680A	RK 4.7K 1/6W J
ZD301	OB01872A	TR 25C945L (P,Q)	R354.361	OB05573A	CM 660P 50V J	R141.345	OB09117A	RK 100K 1/6W J	Q402.406	OB09681A	RK 2.2K 1/6W J
	OB01872A	ZD 10V	R354.362	OB09193A	CM 1800P 50V J	R141.346	OB09118A	RK 56K 1/6W J	Q402.407	OB09682A	RK 2.2K 1/6W J
	OB01909A	SD 1K2107S-11B2				R141.347	OB09119A	RK 22K 1/6W J	Q402.408	OB09683A	RK 4.7K 1/6W J
D304	OB02919C	Inductor 30mH				R141.348	OB09120A	RK 22K 1/6W J	Q402.409	OB09684A	RK 4.7K 1/6W J
VR101.201	OB02909A	Semiconductor VR 22K	IC101.201	OB06383A	IC TEA0654	R141.349	OB09121A	RF 10 1/4W J	Q402.410	OB09685A	R-Network 47Kx3
R101.201	OB09741A	RK 470K 1/2W J	IC102.202	OB06384A	IC TEA0652	R141.350	OB09122A	RF 0.12M 50V (LN)	R658	OB09673A	RK 500K 1/6W J
R102.103	OB09330A	RK 100K 1/4W J	IC101.211	OB06385A	IC TEA0652 (P,K)	R141.351	OB09123A	RF 100M16V	R659	OB09674A	RK 500K 1/6W J
R102.203	OB09330A	RK 100K 1/4W J	Q101.212	OB06167A	ZD 6.2V RD6.2E33	R141.352	OB09124A	RF 100M16V	R660	OB09675A	R-Network 100Kx3
R104.204	OB09731A	RK 180K 1/6W J	Q101.213	OB06168A	L-C Block Yellow	R141.353	OB09125A	RF 100M16V	R661	OB09676A	R-Network 100Kx3
R106.206	OB09685A	RK 2.2K 1/6W J	Q101.214	OB06169A	L-C Block Blue	R141.354	OB09126A	RF 100M16V	R662	OB09677A	R-Network 100Kx3
R107.207	OB09711A	RK 27K 1/6W J	Q101.215	OB06170A	L-C Block Yellow	R141.355	OB09127A	RF 100M16V	R663	OB09678A	R-Network 100Kx3
R108.208	OB22307A	RM 4.87K 1/6W F	Q101.216	OB06171A	RK 2.2K 1/6W J	R141.356	OB09128A	RF 100M16V	R664	OB09679A	R-Network 100Kx3
R109.209	OB22307A	RM 4.87K 1/6W F	Q101.217	OB06172A	RK 2.7K 1/6W J	R141.357	OB09129A	RF 100M16V	R665	OB09680A	R-Network 100Kx3
R110.210	OB09834A	RK 10K 1/4W J	Q101.218	OB06173A	RK 3K 1/6W J	R141.358	OB09130A	RF 100M16V	R666	OB09681A	R-Network 100Kx3
R111.211	OB09732A	RK 12K 1/6W J	Q101.219	OB06174A	RK 3.3K 1/6W J	R141.359	OB09131A	RF 100M16V	R667	OB09682A	R-Network 100Kx3
R115.215	OB09677A	RK 1K 1/6W J	Q101.220	OB06175A	RK 3.9K 1/6W J	R141.360	OB09132A	RF 100M16V	R668	OB09683A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.221	OB06176A	RK 4.3K 1/6W J	R141.361	OB09133A	RF 100M16V	R669	OB09684A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.222	OB06177A	RK 4.7K 1/6W J	R141.362	OB09134A	RF 100M16V	R670	OB09685A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.223	OB06178A	RK 5.1K 1/6W J	R141.363	OB09135A	RF 100M16V	R671	OB09686A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.224	OB06179A	RK 5.6K 1/6W J	R141.364	OB09136A	RF 100M16V	R672	OB09687A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.225	OB06180A	RK 6.2K 1/6W J	R141.365	OB09137A	RF 100M16V	R673	OB09688A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.226	OB06181A	RK 6.8K 1/6W J	R141.366	OB09138A	RF 100M16V	R674	OB09689A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.227	OB06182A	RK 7.5K 1/6W J	R141.367	OB09139A	RF 100M16V	R675	OB09690A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.228	OB06183A	RK 8.2K 1/6W J	R141.368	OB09140A	RF 100M16V	R676	OB09691A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.229	OB06184A	RK 9.1K 1/6W J	R141.369	OB09141A	RF 100M16V	R677	OB09692A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.230	OB06185A	RK 10.0K 1/6W J	R141.370	OB09142A	RF 100M16V	R678	OB09693A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.231	OB06186A	RK 11.0K 1/6W J	R141.371	OB09143A	RF 100M16V	R679	OB09694A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.232	OB06187A	RK 12.1K 1/6W J	R141.372	OB09144A	RF 100M16V	R680	OB09695A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.233	OB06188A	RK 13.3K 1/6W J	R141.373	OB09145A	RF 100M16V	R681	OB09696A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.234	OB06189A	RK 14.7K 1/6W J	R141.374	OB09146A	RF 100M16V	R682	OB09697A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.235	OB06190A	RK 16.2K 1/6W J	R141.375	OB09147A	RF 100M16V	R683	OB09698A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.236	OB06191A	RK 17.8K 1/6W J	R141.376	OB09148A	RF 100M16V	R684	OB09699A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.237	OB06192A	RK 19.6K 1/6W J	R141.377	OB09149A	RF 100M16V	R685	OB09700A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.238	OB06193A	RK 21.6K 1/6W J	R141.378	OB09150A	RF 100M16V	R686	OB09701A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.239	OB06194A	RK 23.9K 1/6W J	R141.379	OB09151A	RF 100M16V	R687	OB09702A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.240	OB06195A	RK 26.5K 1/6W J	R141.380	OB09152A	RF 100M16V	R688	OB09703A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.241	OB06196A	RK 29.4K 1/6W J	R141.381	OB09153A	RF 100M16V	R689	OB09704A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.242	OB06197A	RK 32.6K 1/6W J	R141.382	OB09154A	RF 100M16V	R690	OB09705A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.243	OB06198A	RK 36.1K 1/6W J	R141.383	OB09155A	RF 100M16V	R691	OB09706A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.244	OB06199A	RK 40.0K 1/6W J	R141.384	OB09156A	RF 100M16V	R692	OB09707A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.245	OB06200A	RK 44.3K 1/6W J	R141.385	OB09157A	RF 100M16V	R693	OB09708A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.246	OB06201A	RK 49.1K 1/6W J	R141.386	OB09158A	RF 100M16V	R694	OB09709A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.247	OB06202A	RK 54.4K 1/6W J	R141.387	OB09159A	RF 100M16V	R695	OB09710A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.248	OB06203A	RK 60.3K 1/6W J	R141.388	OB09160A	RF 100M16V	R696	OB09711A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.249	OB06204A	RK 66.8K 1/6W J	R141.389	OB09161A	RF 100M16V	R697	OB09712A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.250	OB06205A	RK 74.0K 1/6W J	R141.390	OB09162A	RF 100M16V	R698	OB09713A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.251	OB06206A	RK 81.9K 1/6W J	R141.391	OB09163A	RF 100M16V	R699	OB09714A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.252	OB06207A	RK 90.6K 1/6W J	R141.392	OB09164A	RF 100M16V	R700	OB09715A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.253	OB06208A	RK 100.0K 1/6W J	R141.393	OB09165A	RF 100M16V	R701	OB09716A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.254	OB06209A	RK 110.2K 1/6W J	R141.394	OB09166A	RF 100M16V	R702	OB09717A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.255	OB06210A	RK 121.3K 1/6W J	R141.395	OB09167A	RF 100M16V	R703	OB09718A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.256	OB06211A	RK 133.6K 1/6W J	R141.396	OB09168A	RF 100M16V	R704	OB09719A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.257	OB06212A	RK 147.1K 1/6W J	R141.397	OB09169A	RF 100M16V	R705	OB09720A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.258	OB06213A	RK 161.9K 1/6W J	R141.398	OB09170A	RF 100M16V	R706	OB09721A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.259	OB06214A	RK 178.1K 1/6W J	R141.399	OB09171A	RF 100M16V	R707	OB09722A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.260	OB06215A	RK 195.7K 1/6W J	R141.400	OB09172A	RF 100M16V	R708	OB09723A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.261	OB06216A	RK 214.8K 1/6W J	R141.401	OB09173A	RF 100M16V	R709	OB09724A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.262	OB06217A	RK 236.4K 1/6W J	R141.402	OB09174A	RF 100M16V	R710	OB09725A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.263	OB06218A	RK 260.6K 1/6W J	R141.403	OB09175A	RF 100M16V	R711	OB09726A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.264	OB06219A	RK 287.5K 1/6W J	R141.404	OB09176A	RF 100M16V	R712	OB09727A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.265	OB06220A	RK 318.1K 1/6W J	R141.405	OB09177A	RF 100M16V	R713	OB09728A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.266	OB06221A	RK 352.4K 1/6W J	R141.406	OB09178A	RF 100M16V	R714	OB09729A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.267	OB06222A	RK 390.6K 1/6W J	R141.407	OB09179A	RF 100M16V	R715	OB09730A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.268	OB06223A	RK 432.8K 1/6W J	R141.408	OB09180A	RF 100M16V	R716	OB09731A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.269	OB06224A	RK 479.1K 1/6W J	R141.409	OB09181A	RF 100M16V	R717	OB09732A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.270	OB06225A	RK 529.5K 1/6W J	R141.410	OB09182A	RF 100M16V	R718	OB09733A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.271	OB06226A	RK 584.0K 1/6W J	R141.411	OB09183A	RF 100M16V	R719	OB09734A	R-Network 100Kx3
R337	OB09187A	RK 100K 1/4W J	Q101.272	OB06227A	RK 642.6K 1/6W J	R141.412	OB09184A				

8. SCHEMATIC DIAGRAM

8.1. IC Block Diagrams

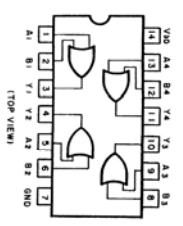


FIG. 8.1.1 OR Gate CMOS IC μPD4071BC (TOP VIEW)

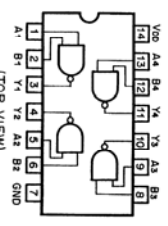


FIG. 8.1.2 NAND Gate CMOS IC μPD4011BC (TOP VIEW)

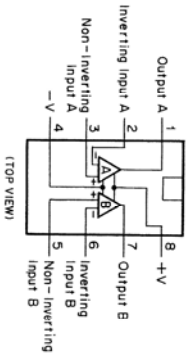


FIG. 8.1.3 Operational Amp. IC 4858D, NM4658DD, NM2048DD, TL082 (TOP VIEW)

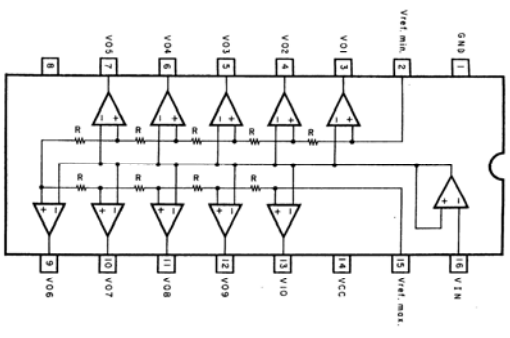


FIG. 8.1.4 Level Meter Driver TA7612AP

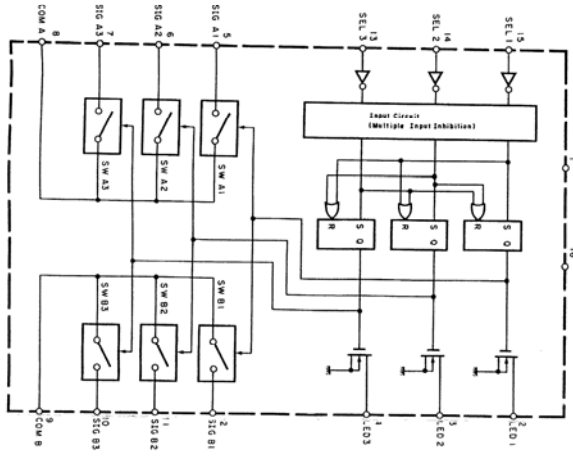


FIG. 8.1.5 Analog Switch Selector TC9145P

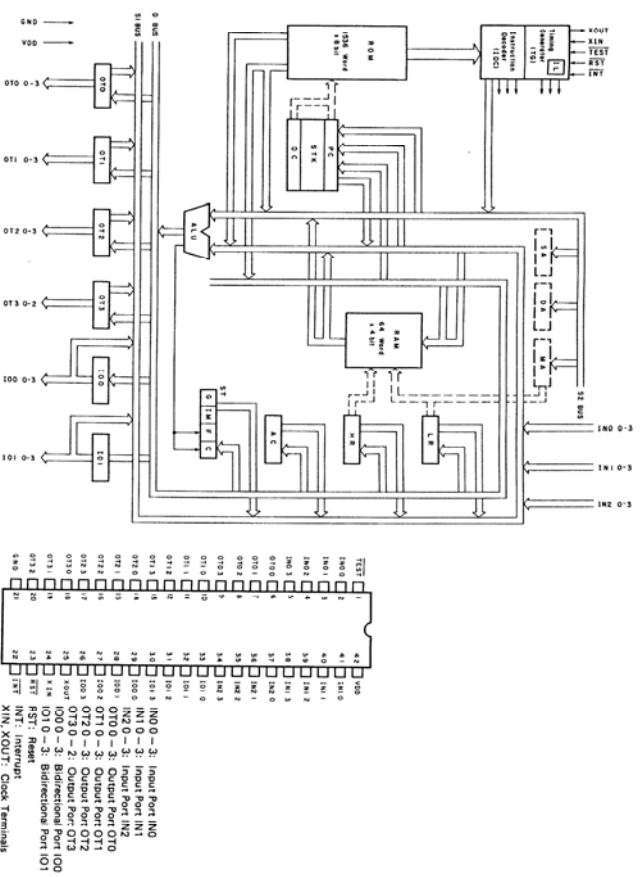
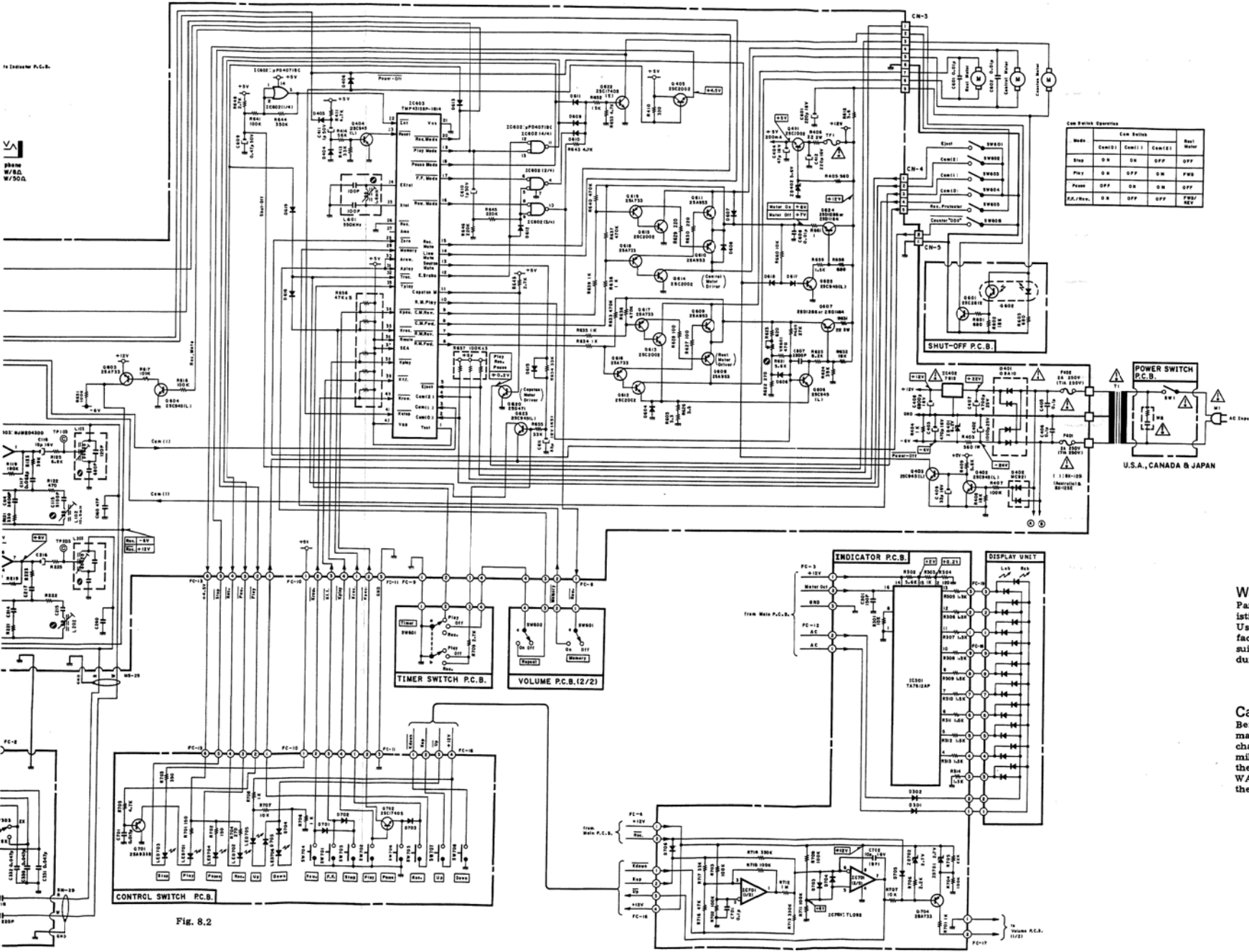


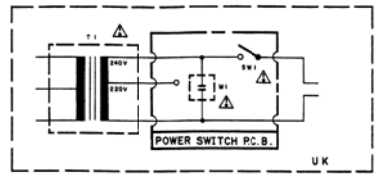
FIG. 8.1.6 4-Bit Micro-processor TMP4315BP-1814

42	IN0	IN0 - 3: Input Port IN0
41	IN1	IN1 - 3: Input Port IN1
40	IN2	IN2 - 3: Input Port IN2
39	IN3	IN3 - 3: Input Port IN3
38	OUT0	OUT0 - 3: Output Port OT0
37	OUT1	OUT1 - 3: Output Port OT1
36	OUT2	OUT2 - 3: Output Port OT2
35	OUT3	OUT3 - 3: Output Port OT3
34	IN0	IN0 - 3: Bidirectional Port IO0
33	IN1	IN1 - 3: Bidirectional Port IO1
32	IN2	IN2 - 3: Bidirectional Port IO2
31	IN3	IN3 - 3: Bidirectional Port IO3
30	IN0	IN0 - 3: Input Port IN0
29	IN1	IN1 - 3: Input Port IN1
28	IN2	IN2 - 3: Input Port IN2
27	IN3	IN3 - 3: Input Port IN3
26	OUT0	OUT0 - 3: Output Port OT0
25	OUT1	OUT1 - 3: Output Port OT1
24	OUT2	OUT2 - 3: Output Port OT2
23	OUT3	OUT3 - 3: Output Port OT3
22	IN0	IN0 - 3: Bidirectional Port IO0
21	IN1	IN1 - 3: Bidirectional Port IO1
20	IN2	IN2 - 3: Bidirectional Port IO2
19	IN3	IN3 - 3: Bidirectional Port IO3
18	IN0	IN0 - 3: Input Port IN0
17	IN1	IN1 - 3: Input Port IN1
16	IN2	IN2 - 3: Input Port IN2
15	IN3	IN3 - 3: Input Port IN3
14	OUT0	OUT0 - 3: Output Port OT0
13	OUT1	OUT1 - 3: Output Port OT1
12	OUT2	OUT2 - 3: Output Port OT2
11	OUT3	OUT3 - 3: Output Port OT3
10	IN0	IN0 - 3: Bidirectional Port IO0
9	IN1	IN1 - 3: Bidirectional Port IO1
8	IN2	IN2 - 3: Bidirectional Port IO2
7	IN3	IN3 - 3: Bidirectional Port IO3
6	IN0	IN0 - 3: Input Port IN0
5	IN1	IN1 - 3: Input Port IN1
4	IN2	IN2 - 3: Input Port IN2
3	IN3	IN3 - 3: Input Port IN3
2	OUT0	OUT0 - 3: Output Port OT0
1	OUT1	OUT1 - 3: Output Port OT1
0	OUT2	OUT2 - 3: Output Port OT2
0	OUT3	OUT3 - 3: Output Port OT3

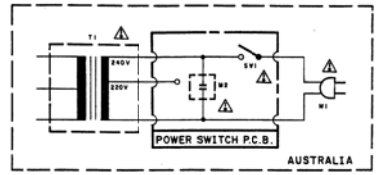


Cam Switch Operation

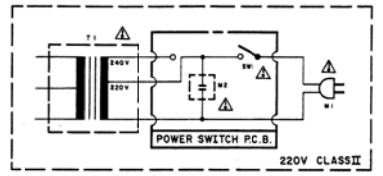
Mode	Cam (1)	Cam (2)	Cam (3)	Rel. Mode
Stop	ON	ON	OFF	OFF
Play	ON	OFF	ON	FW
Power	OFF	ON	ON	OFF
P.A./Rev.	ON	OFF	OFF	REV/REV



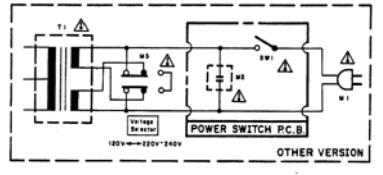
UK



AUSTRALIA



220V CLASS II



OTHER VERSION

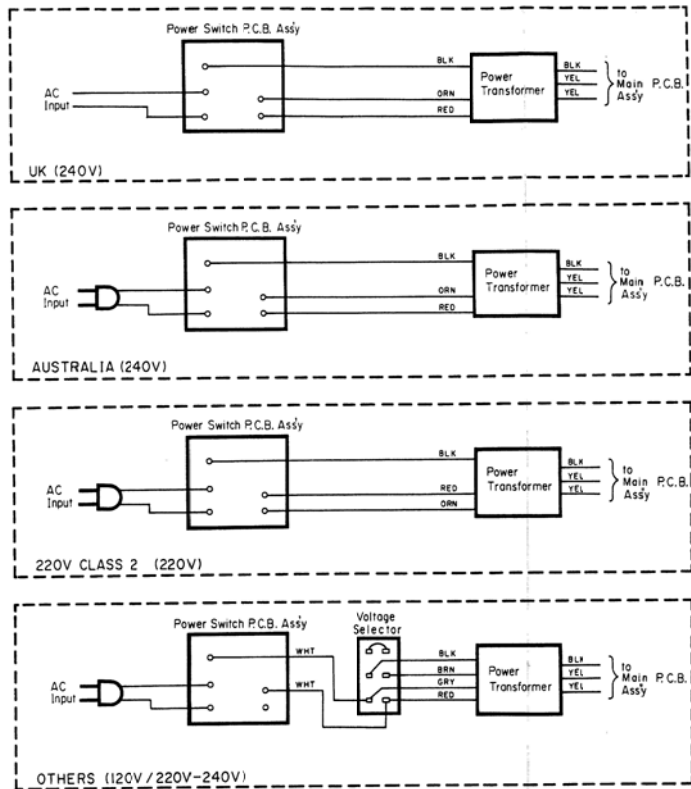
U.S.A., CANADA & JAPAN

Fig. 8.2

Warning:
Parts marked with the symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer. It is recommended that the unit be operated from a suitable DC supply or batteries during initial check-out procedure.

Caution:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamper, or if the resistance from chassis to either side of the power cord is less than 240 k ohms, the unit is defective. **WARNING — DO NOT** return the unit to the customer until the problem is located and corrected.

9. WIRING DIAGRAM



Notes: 1 Table of wire colors

BRN - Brown	BLU - Blue
RED - Red	VIO - Violet
ORN - Orange	GRY - Gray
YEL - Yellow	WHT - White
GRN - Green	BLK - Black

2. Component side view of the P.C.B. is illustrated unless otherwise specified.
 3. Wire tube color is shown in ().

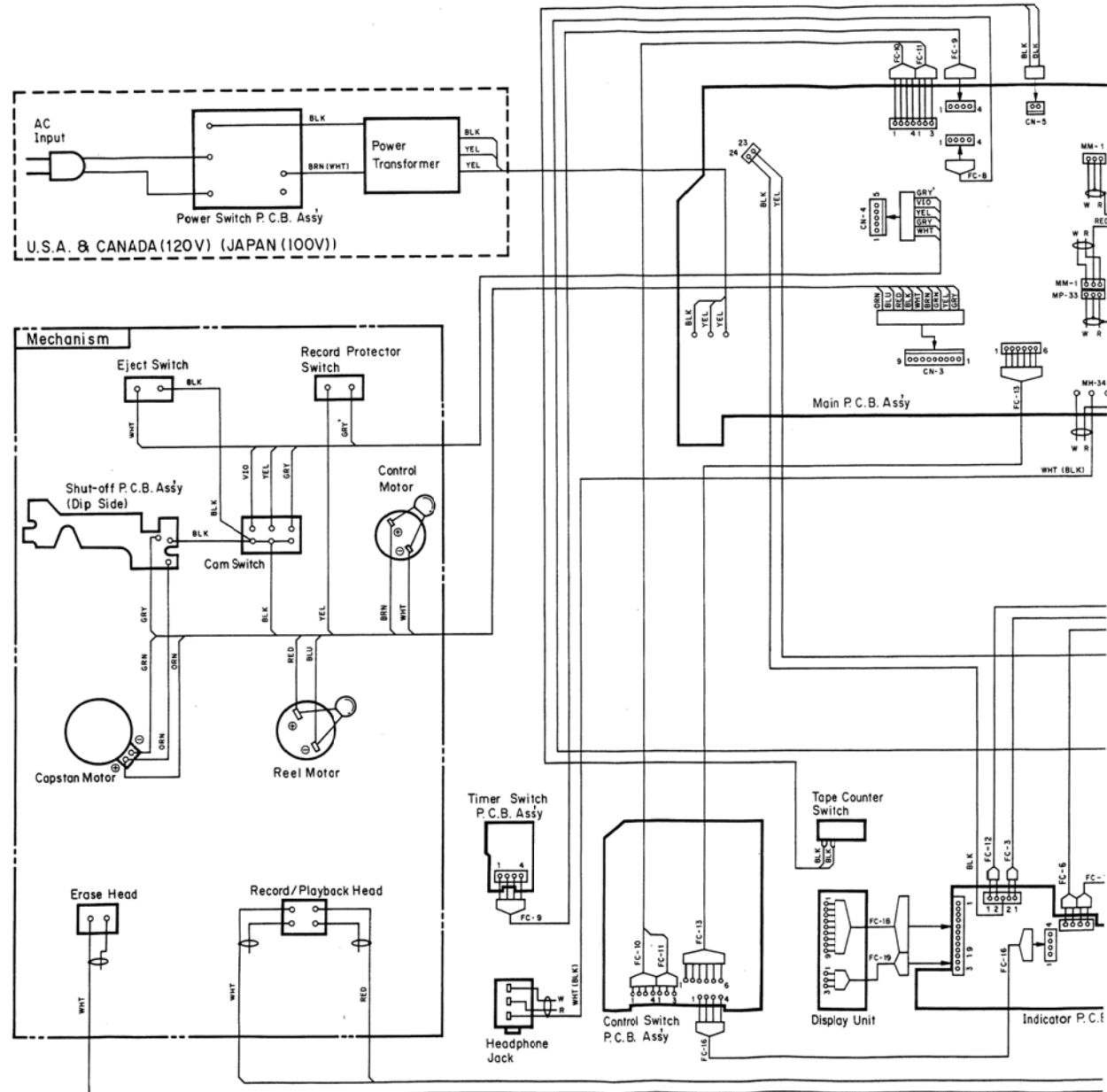


Fig. 9

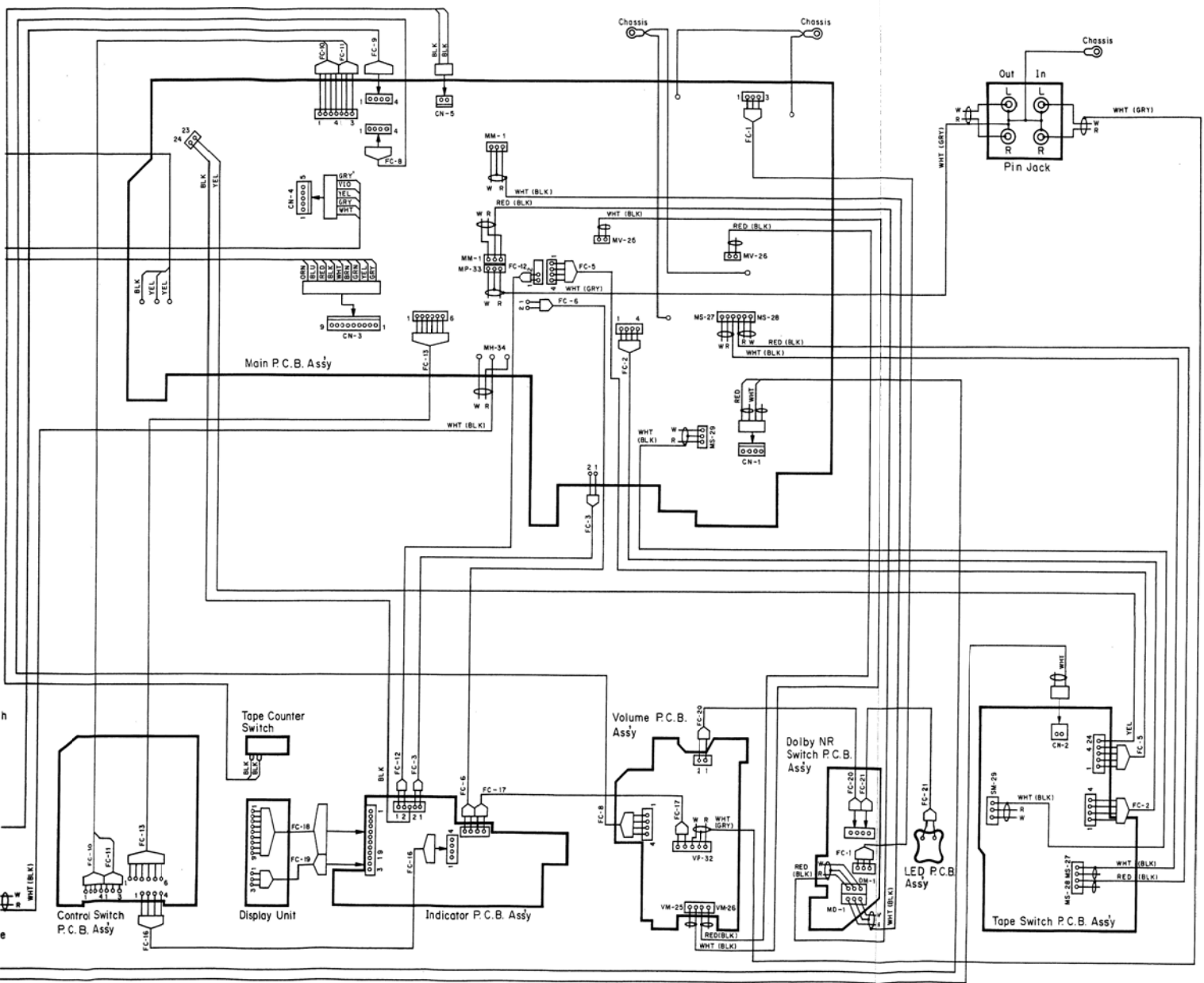


Fig. 9

10. BLOCK DIAGRAMS

10.1. Amplifier Section

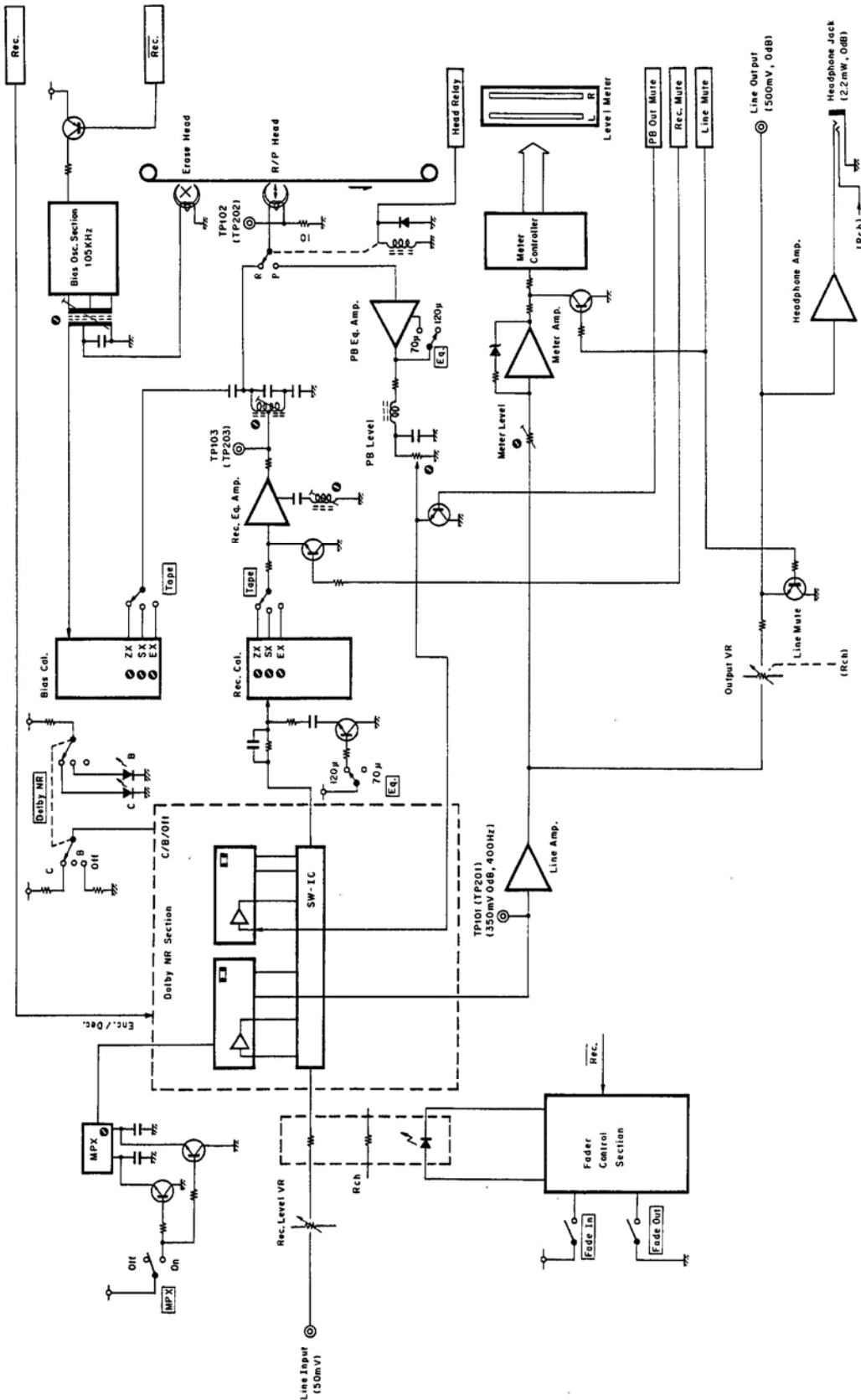


Fig. 10.1

10.2. Mechanism Control Section

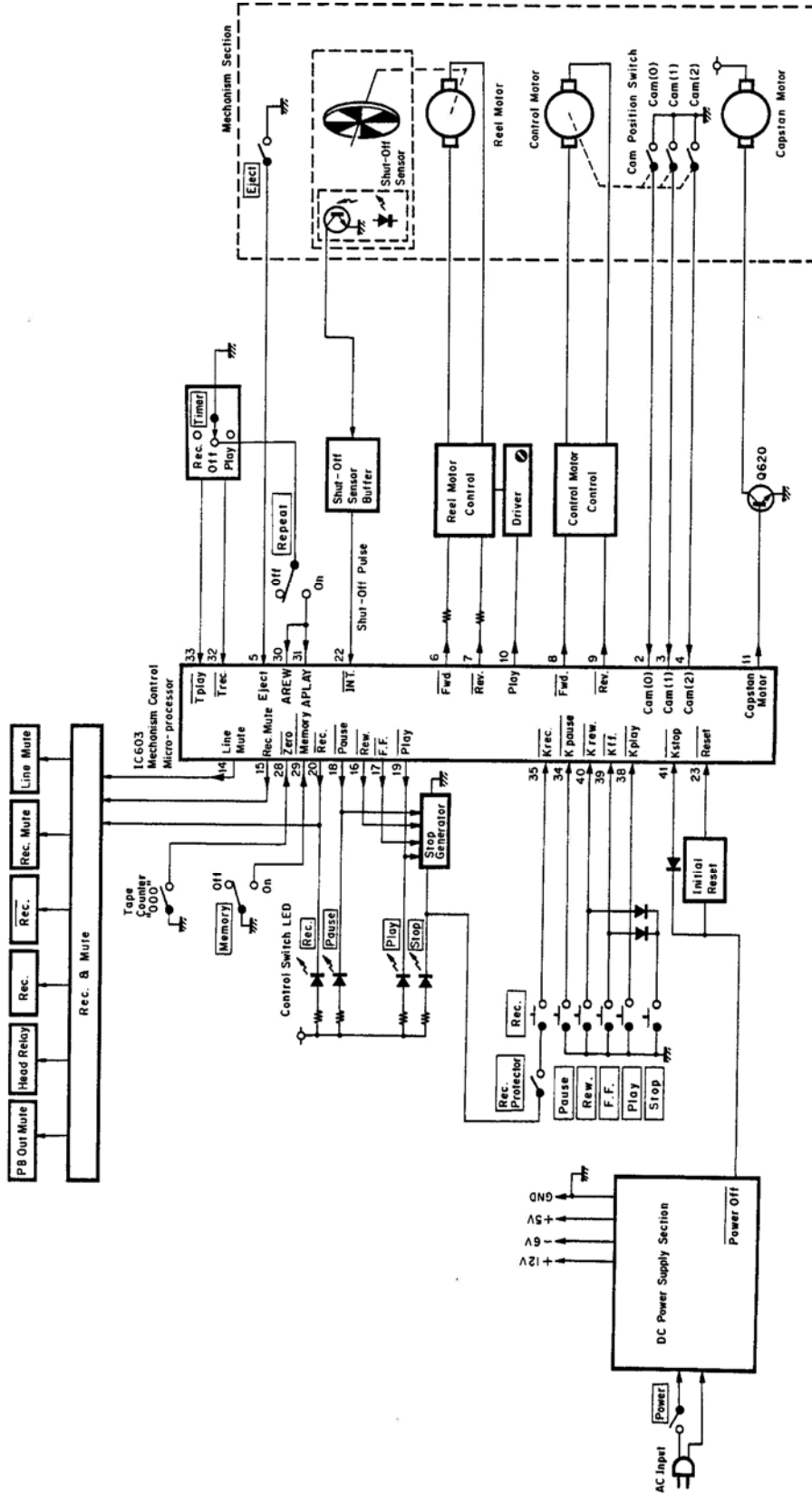


Fig. 10.2

11. TIMING CHART AND EQ. AMP. FREQUENCY RESPONSE

11.1. Timing Chart (1) Overall Timing Chart

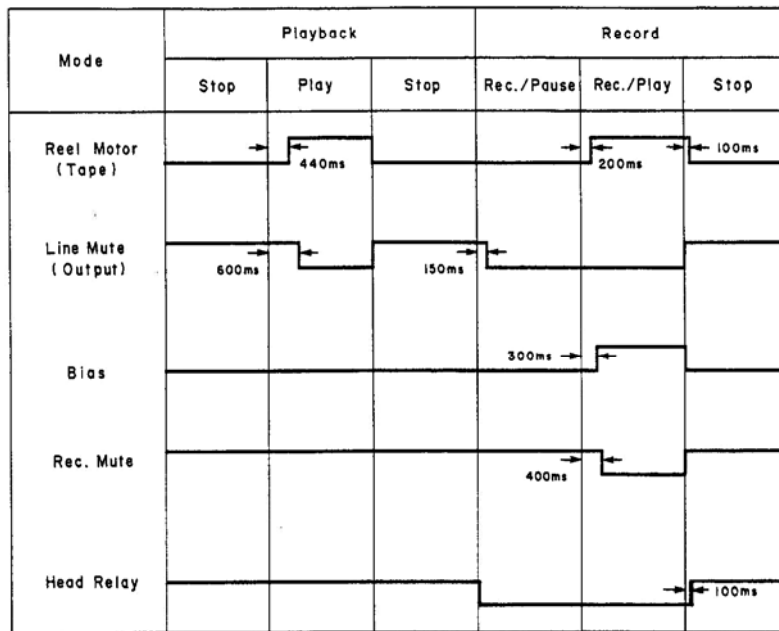


Fig. 11.1.1

(2) Mechanism Control Timing Chart

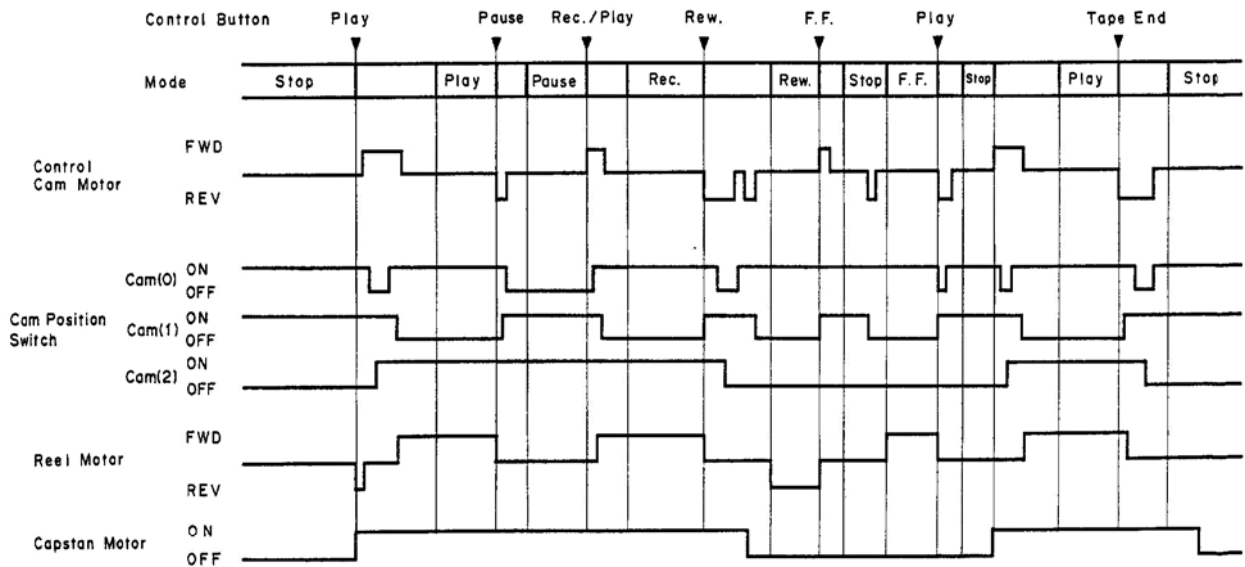


Fig. 11.1.2

11.2. Eq. Amp. Frequency Response
(1) Playback Frequency Response

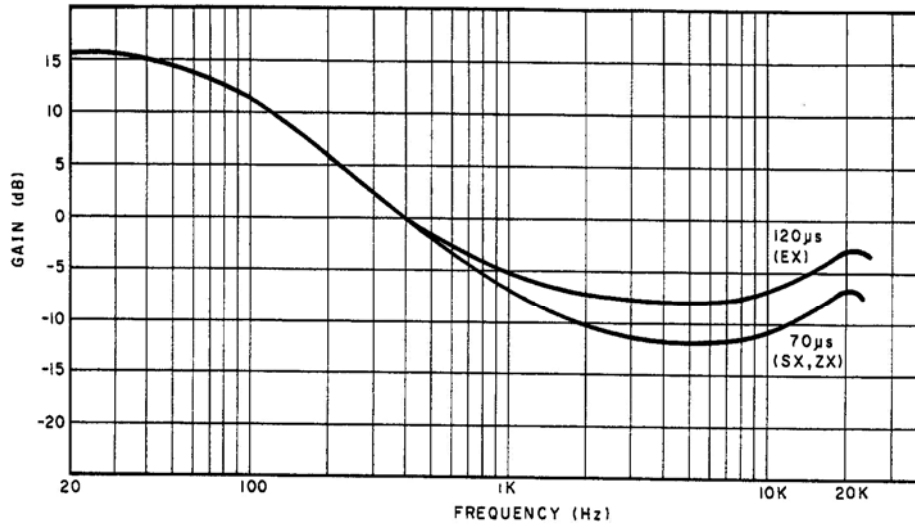


Fig. 11.2.1

(2) Record Current Frequency Response

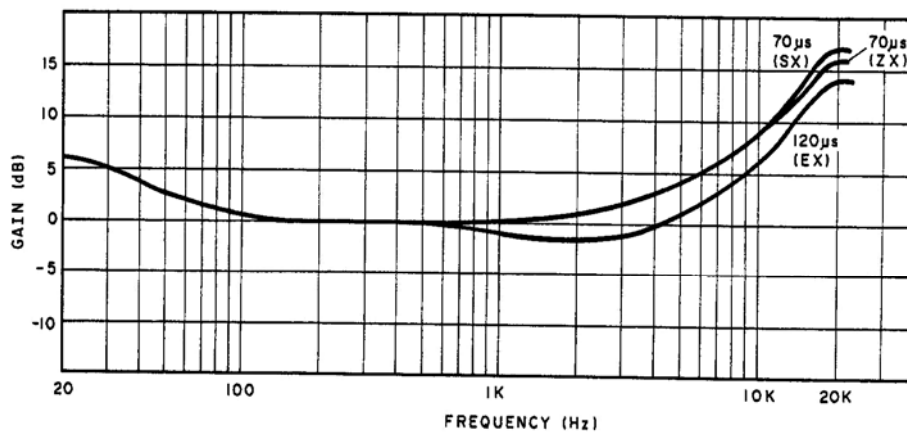


Fig. 11.2.2

12. SPECIFICATIONS

Track Configuration	4 Tracks/2-Channel Stereo
Heads	2 (Erase Head x 1, Record/Playback Head x 1)
Motors (Tape Transport)	DC Servo Motor (Capstan Drive) x 1 DC Motor (Reel Drive) x 1
Power Source	100, 120, 120/220-240, 220 or 240 V AC; 50/60 Hz (According to country of sale)
Power Consumption	23 W max.
Tape Speed	1-7/8 ips. (4.8 cm/sec.) $\pm 0.5\%$
Wow and Flutter	Less than $\pm 0.11\%$ WTD Peak Less than 0.06% WTD RMS
Frequency Response	20 Hz-20,000 Hz (recording level -20 dB)
Signal to Noise Ratio	Dolby C-Type NR on $<70 \mu s, ZX \text{ tape}>$ Better than 68 dB (400 Hz, 3% THD, IHF A-WTD RMS) Dolby B-Type NR on $<70 \mu s, ZX \text{ Tape}>$ Better than 62 dB (400 Hz, 3% THD, IHF A-WTD RMS)
Total Harmonic Distortion	Less than 1.0% (400 Hz, 0 dB, ZX, EXII tape) Less than 1.2% (400 Hz, 0 dB, SX tape)
Erasure	Better than 60 dB (100 Hz, 10 dB)
Separation	Better than 36 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Bias Frequency	105 kHz
Input (Line)	50 mV, 30 k Ω
Output (Line)	0.5 V (400 Hz, 0 dB, output level control at max.) 2.2 k Ω
(Headphones)	2.2 mW (400 Hz, 0 dB, output level control at max.) 8 Ω load
Fast-Winding Time	Approx. 85 seconds (with C-60 cassette)
Dimensions	430 (W) x 100 (H) x 250 (D) millimeters 16-15/16 (W) x 3-15/16 (H) x 9-7/8 (D) inches
Approximate Weight	5 kg 11 lb.

- Specifications and appearance 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 Manual

Nakamichi BX-125, BX-125E

Nakamichi Corporation

Tokyo Office
Shinjuku Daiichi Seimei Bldg.
2-7-1 Nishishinjuku, Tokyo
Phone (03) 342-4461
Telex : 2324721 (NAKAM J)

Nakamichi U.S.A. Corporation

19701 South Vermont Avenue
Torrance, California 90502
Phone : (213) 538-8150

Nakamichi GmbH

Stephanienstrasse 6, 4000 Düsseldorf 1
Phone : (0211) 359036