



SERVICE MANUAL

AM/FM STEREO RECEIVER

SANSUI 8080DB/9090DB
890DB/990DB



Sansui

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the 8080DB/9090DB, 890DB/990DB correctly.

When ordering the parts, use the stock number and parts name specifically referring to the Parts Location and Parts Lists.

For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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1. SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT

MODEL 8080DB/890DB

Min. RMS, both channels driven, from 20 to 20,000Hz, with no more than 0.1% total harmonic distortion

85 watts per channel into 8 ohms

Min. RMS, both channels driven, at 1,000Hz, with no more than 0.1% total harmonic distortion
95 watts per channel into 8 ohms

MODEL 9090DB/990DB

Min. RMS, both channels driven, from 20 to 20,000Hz, with no more than 0.1% total harmonic distortion

125 watts per channel into 8 ohms

Min. RMS, both channels driven, at 1,000Hz, with no more than 0.1% total harmonic distortion
135 watts per channel into 8 ohms

MODEL 8080DB/890DB, 9090DB/990DB

LOAD IMPEDANCE 8 ohms

POWER BANDWIDTH..... 20 to 20,000Hz at or below rated min. RMS power output and total harmonic distortion

TOTAL HARMONIC DISTORTION

..... less than 0.1% at or below rated min. RMS power output

INTERMODULATION DISTORTION

(70Hz:7kHz=4:1 SMPTE method)

..... less than 0.1%

FREQUENCY RESPONSE (at 1 watt)

..... 10 to 30,000Hz $\pm$ 1dB

RIAA CURVE DEVIATION (PHONO)

..... +0.3dB, -0.3dB
(30Hz to 15kHz)

DAMPING FACTOR..... approximately 30 at 8 ohm load

INPUT SENSITIVITY AND IMPEDANCE

(1 kHz, for rated power output)

PHONO-1, 2 2.5mV/50 kilohms
(Max. input capability. 180mV at 1kHz, less than 0.2% total harmonic distortion.)

MIC 4mV/10 kilohms

TAPE-1, 2 PLAY, AUX 150mV/50 kilohms

MAIN IN..... 775mV/100 kilohms

OUTPUT LEVEL (1,000Hz)

TAPE-1, 2 REC (pin jacks) 150mV

TAPE-2 REC/PLAY (DIN socket)..... 30mV

PRE OUT..... 775mV

CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO-1, 2 better than 50dB

TAPE-1, 2 PLAY, AUX better than 50dB

HUM AND NOISE

PHONO-1, 2 better than 70dB

TAPE-1, 2 PLAY, AUX better than 80dB

*Dolby Noise Reduction effect.. 10dB (above 5kHz)

CONTROLS

MODEL 8080DB/890DB

BASS..... $\pm$ 10dB (50Hz)

MIDRANGE..... $\pm$ 5dB (1.5kHz)

TREBLE..... $\pm$ 10dB (10kHz)

LOUDNESS +8dB (50Hz)

..... +6dB (10kHz)

LOW FILTER -10dB (50Hz)

HIGH FILTER -10dB (10kHz)

AUDIO MUTING -20dB

MODEL 9090DB/990DB

BASS..... $\pm$ 10dB (50Hz)

Tone selector (turnover frequency)

..... 150, 300Hz

MIDRANGE $\pm$ 5dB (1.5kHz)

TREBLE..... $\pm$ 10dB (10kHz)

Tone selector (turnover frequency)

..... 1.5, 3kHz

LOUDNESS +8dB (50Hz)

..... +6dB (10kHz)

LOW FILTER..... -10dB (50Hz)

HIGH FILTER -10dB (10kHz)

AUDIO MUTING -20dB

FM SECTION

MODEL 8080DB/890DB, 9090DB/990DB

TUNING RANGE 88 to 108MHz

SENSITIVITY

(IHF)..... 9.8dBf (1.7 μ V)

(DIN) 0.9 μ V

50dB QUIETING SENSITIVITY

STEREO (IHF) 36.3dBf (36 μ V)

MONO (IHF) 14.7dBf (3 μ V)

TOTAL HARMONIC DISTORTION

STEREO less than 0.3%

MONO less than 0.2%

SIGNAL TO NOISE RATIO (mono)

..... better than 70dB

SELECTIVITY better than 85dB

CAPTURE RATIO less than 1.5dB

AM SUPPRESSION better than 55dB

IMAGE RESPONSE RATIO (IHF)..... better than 70dB (98MHz)

IF RESPONSE RATIO (IHF) better than 95dB (98MHz)

SPURIOUS RESPONSE RATIO (IHF)

..... better than 85dB (98MHz)

SPURIOUS RADIATION less than 34dB

STEREO SEPARATION better than 40dB (1 kHz)

FREQUENCY RESPONSE 30 to 15,000Hz $\pm$ 0.5dB

ANTENNA INPUT IMPEDANCE .. 75 Ω unbalanced

300 Ω balance

AM SECTION

TUNING RANGE 535 to 1,605kHz

SENSITIVITY (Bar antenna)..... 50dB/m (1,000kHz)

SELECTIVITY better than 50dB (1,000kHz)

IMAGE RESPONSE RATIO (IHF)..... better than 30dB (1,000kHz)

IF RESPONSE RATIO (IHF) better than 30dB (1,000kHz)

OTHERS

MODEL 8080DB/890DB

POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V 50/60Hz

120V (Usable 110-130V)

60Hz (for U.S.A. & Canada only)

POWER CONSUMPTION

Maximum consumption 420 watts

Rated consumption 265 watts (350VA)

DEMENSIONS 540mm (21-5/16") W

182mm (7-3/16") H

397mm (15-11/16") D

WEIGHT 20.7kg (45.6 lbs) net

23.1kg (50.9 lbs) packed

MODEL 9090DB/990DB

POWER REQUIREMENTS

POWER VOLTAGE..... 100, 120, 220, 240V 50/60Hz

120V (Usable 110-130V)

60Hz (for U.S.A. & Canada only)

POWER CONSUMPTION

Maximum consumption 650 watts

Rate consumption..... 435 watts (530VA)

DEMENSIONS 540mm (21-5/16") W

182mm (7-3/16") H

397mm (15-11/16") D

WEIGHT 23.6kg (52.0 lbs) net

26.0kg (57.3 lbs) packed

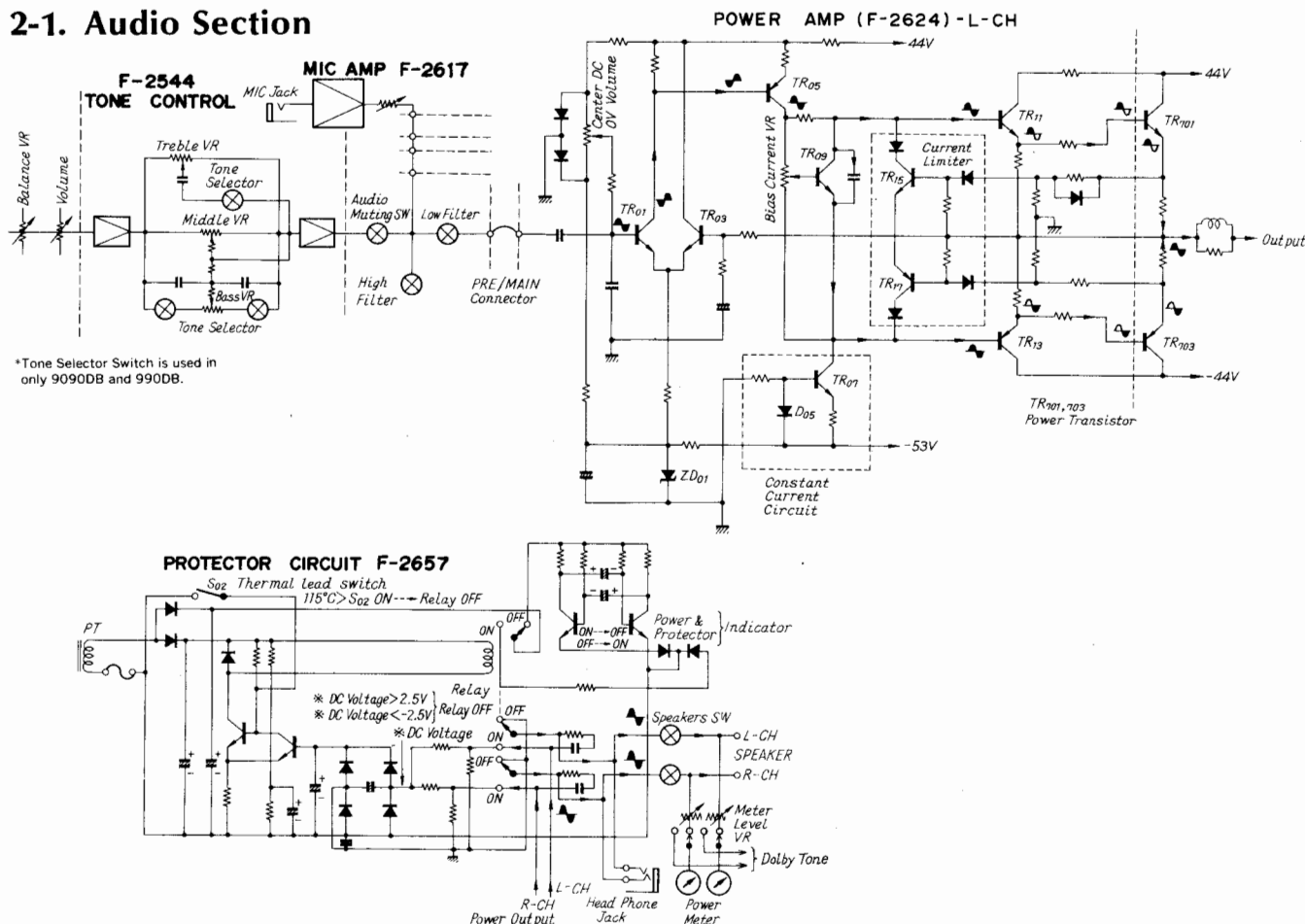
*The word "Dolby" and the Double-D symbol are a trademark of Dolby Laboratories Inc.

•Noise reduction circuit made under license from Dolby Laboratories Inc.

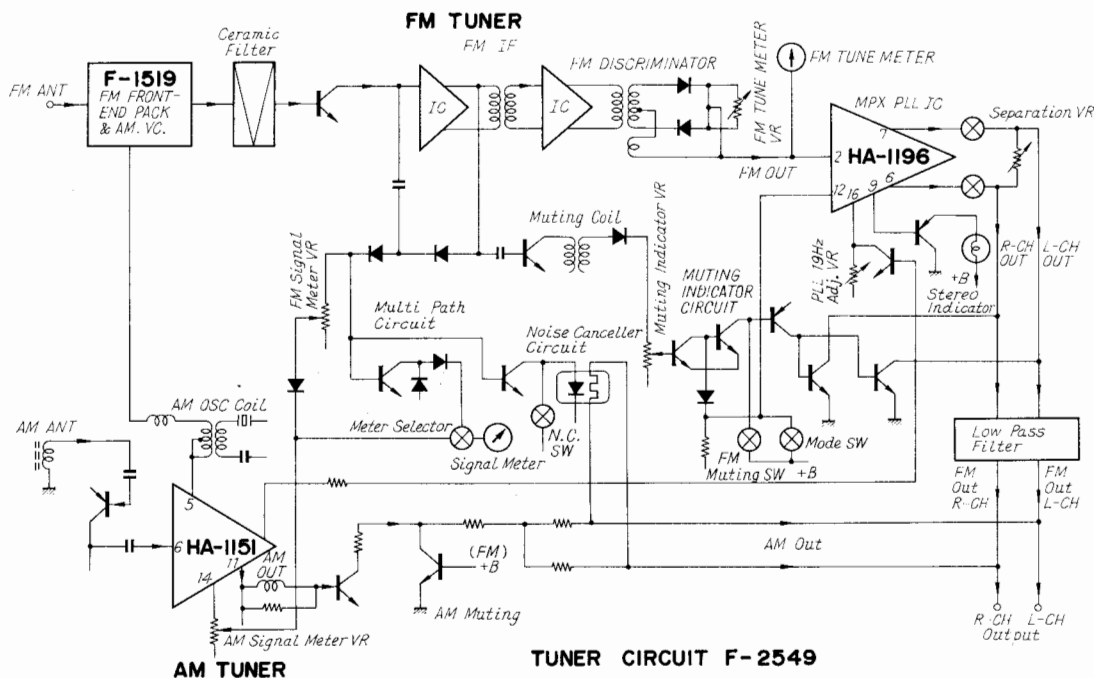
*Design and specifications subject to change without notice for improvements.

2. BLOCK DIAGRAM

2-1. Audio Section

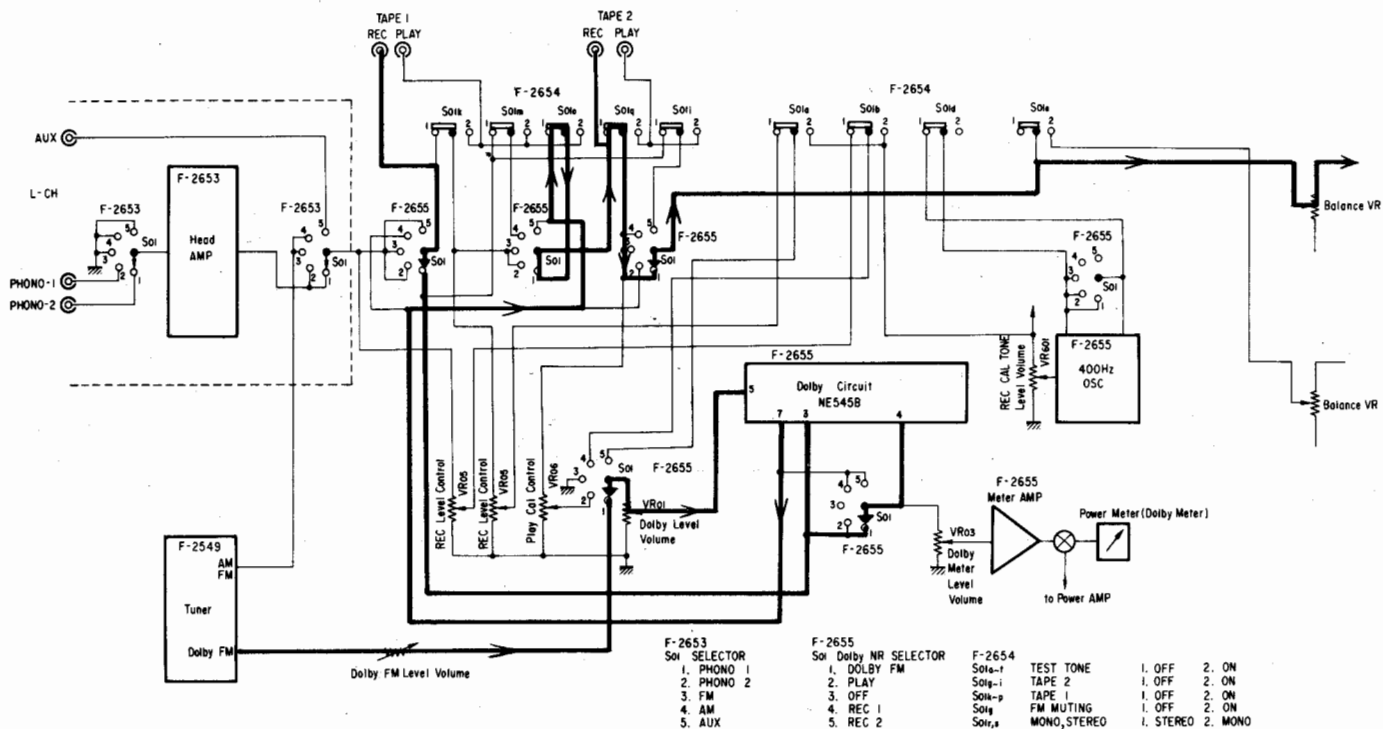


2-2. Tuner Section

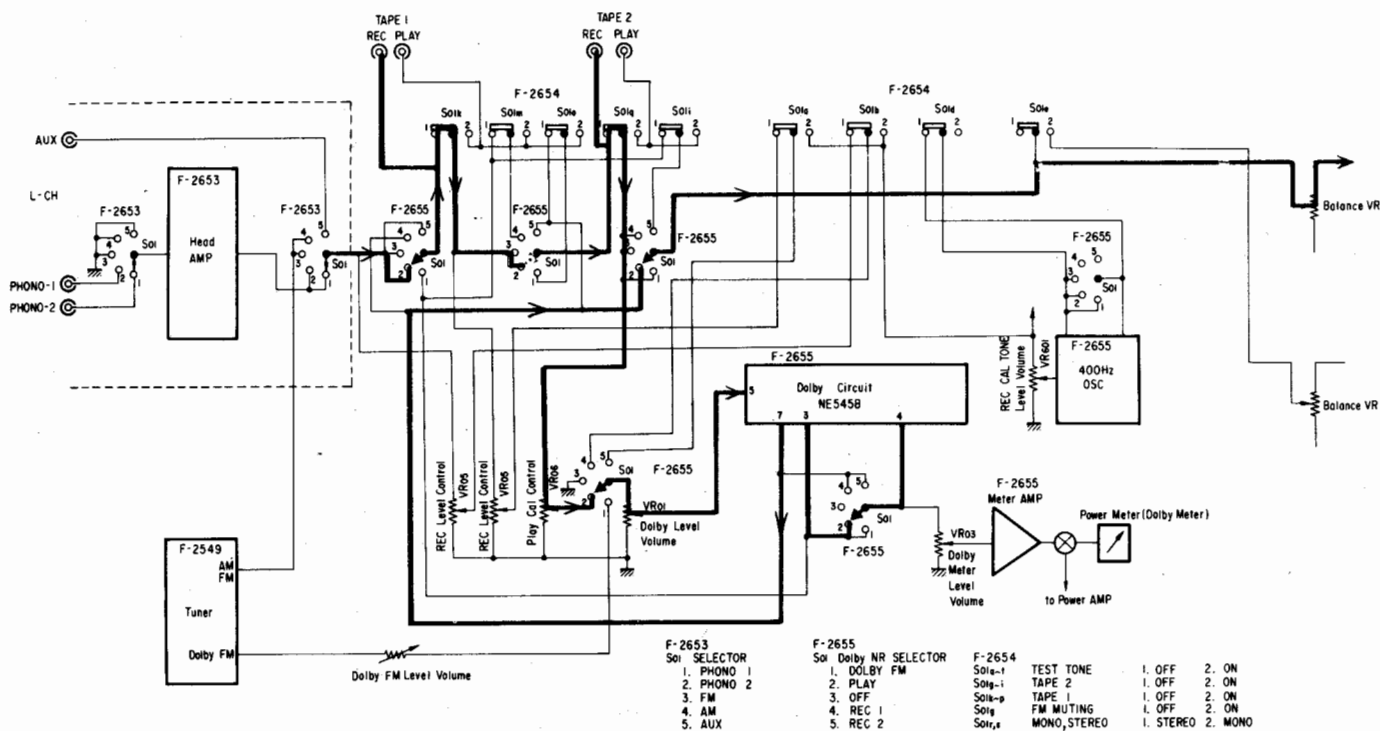


2-3. Dolby Mode Section

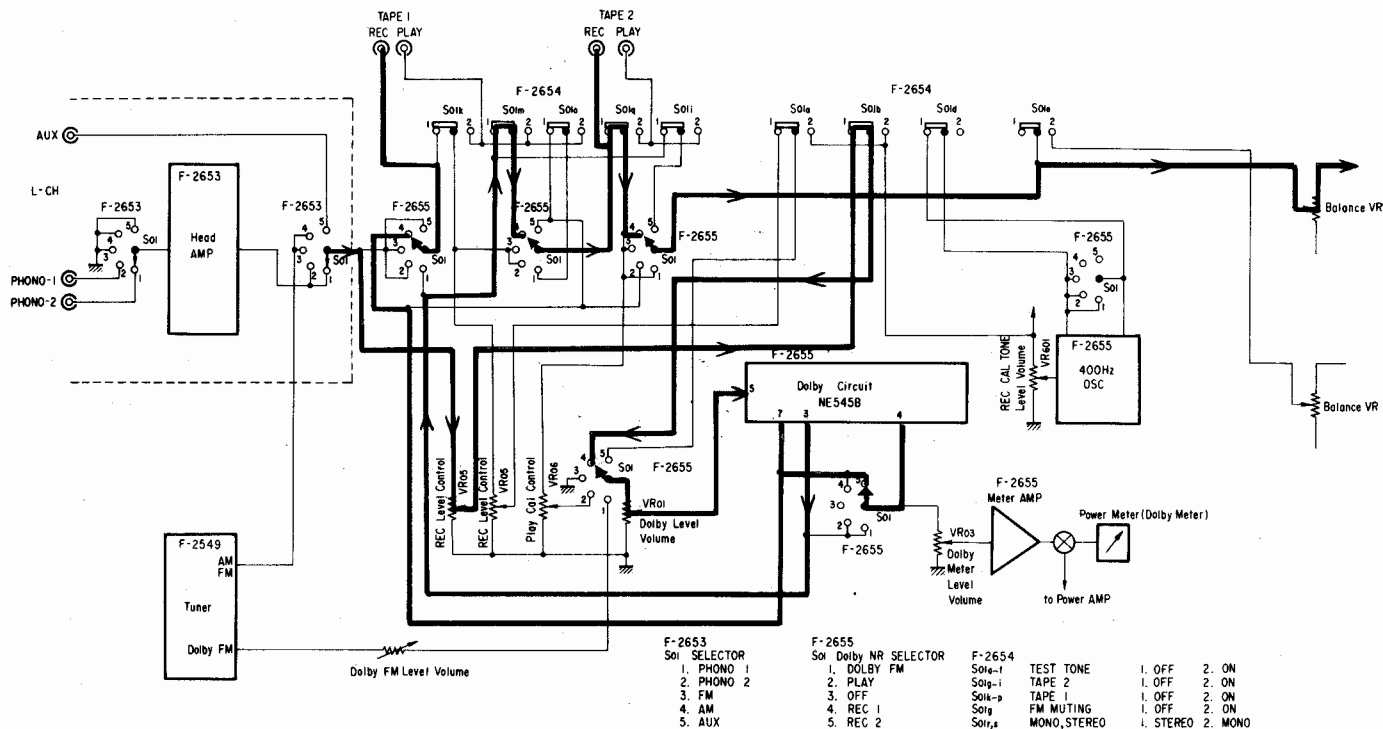
2-3-1. Dolby FM (Dolby NR Selector)



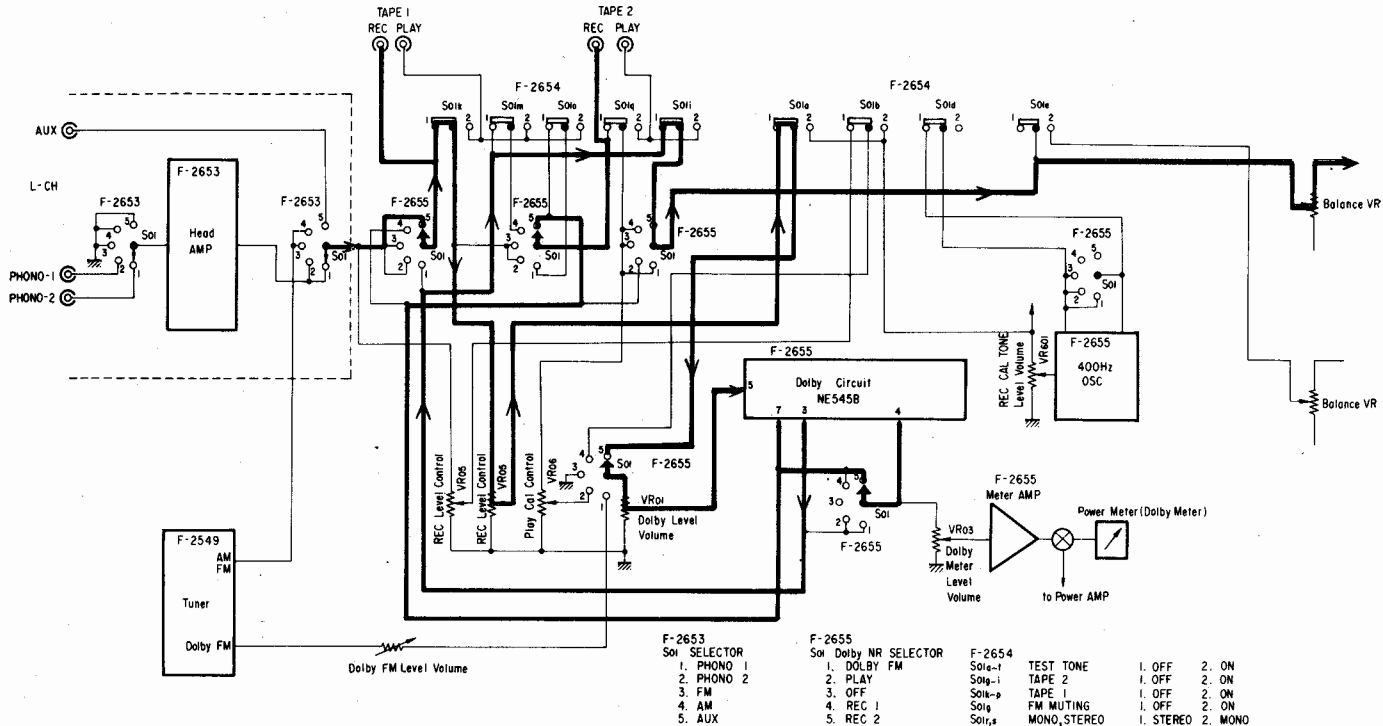
2-3-2. Play (Dolby NR Selector)



2-3-3. Rec (1) (Dolby NR Selector)



2-3-4. Rec (2) (Dolby NR Selector)



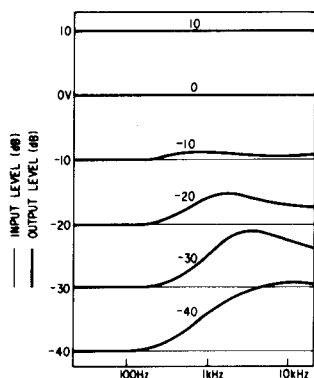
3. OPERATION OF DOLBY FM SYSTEM

This Dolby Noise Reduction System Type B used in this unit is not only available for encoding of the FM dolbyized signal but also useful for encoding and decoding of other signals. Therefore it is possible and effective to combine with other products such as a cassette deck without Dolby system.

Dolby FM System

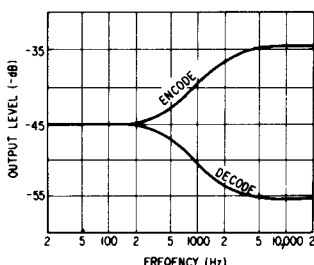
FM broadcasting system is originally able to produce a very high quality audio performance; however, FM stereophonic broadcasting system incurs a 20dB Signal-Noise ratio decrease. When Dolby B Type Noise Reduction system is used for a FM stereo, Signal-Noise ratio (S/N) is conspicuously improved and this ratio is at about 10dB.

Fig. 3-1



Whole range output Frequency Response characteristics against input level.

Fig. 3-2



Low level Frequency Response characteristics of encode and decode processors.

4. ADJUSTMENTS

4-1. Dolby Circuit Adjustment

4-1-1. Input Level Adjustment of Dolby IC (NE545B) (See Fig. 4-2)

Note: 1. Speaker Selector.....A 4. SelectorAUX 7. Dolby Selector Switch.....REC 1
2. Master VolumeMinimam 5. Accessory SwitchOFF
3. Balance Volume.....Center 6. REC Level VolumeMAX

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR
		FROM	TO			
1.	L-CH	400Hz 80mV Audio OSC.	AUX Terminal	REC Terminal TAPE I VTVM	VR01 F-2655	Output 270mV
2.	R-CH	Same as above	AUX Terminal	REC Terminal TAPE I VTVM	VR02 F-2655	Same as above

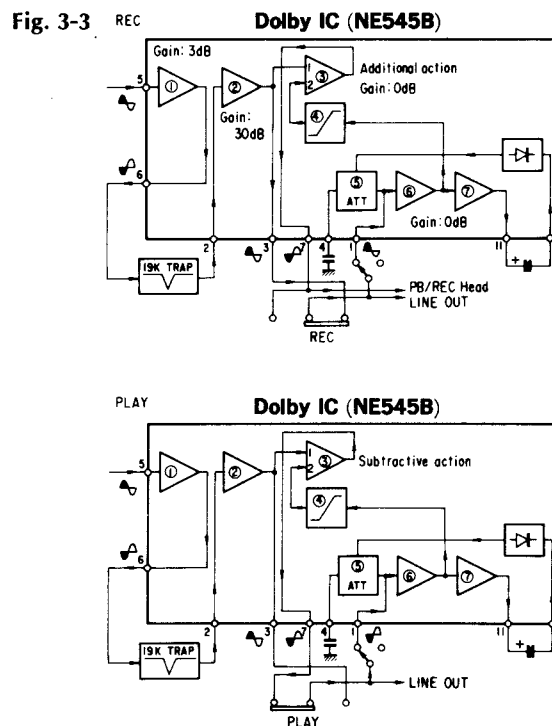
Principles

The S/N of the FM becomes worse when the frequency is high and the level is low. Because of this reason, the middle and high range of the low level signal is expanded by a FM station. Then the signal will be compressed proportionally along the expanded level by a receiving side. (See Fig. 1, 2)

This unit employs a IC NE545B for a main Dolby circuit. The Operating diagram is shown in the Fig. 3-3.

Complementary items

1. When Dolby FM system is being used, the de-emphasis of FM-out is 25 μ s.
2. The input level of Dolby FM is at 50% modulation and ± 37.5 kHz.
3. This unit has an own 400Hz Oscillator for Dolby Tone in order to adjust itself to the Dolby level.



4-1-2. Calibration Tone Volume & Dolby Meter Volume Adjustment (See Fig. 4-1, 4-2)

- Note:** 1. Speaker SelectorA
2. Master VolumeMinimum
3. Balance VolumeCenter
4. Accessory SwitchOFF
5. Dolby Selector SwitchREC 1

Step

1. Turn on the Dolby REC CAL TONE Switch.
2. Connect VTVM to the front TAPE I REC terminal.
3. Adjust VR601 on the circuit board, F-2655 to obtain 270mV on indication of VTVM.
4. Adjust both VR03 (L-CH) and VR04 (R-CH) on the circuit board, F-2655 so that indicator of power meter will be center of Dolby mark.

Fig. 4-1

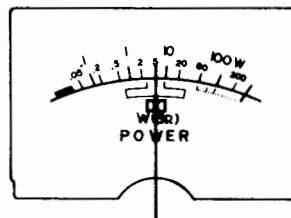
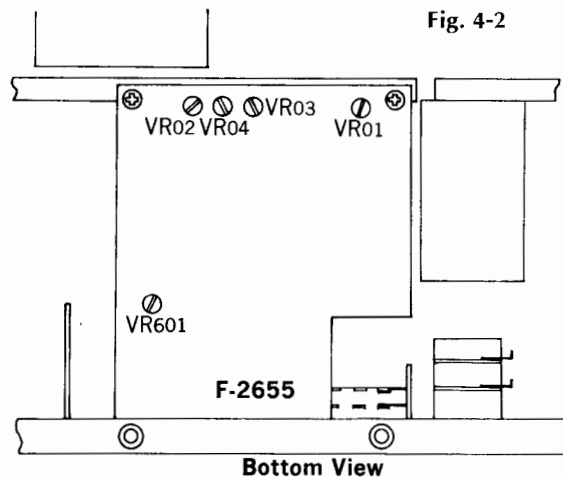


Fig. 4-2

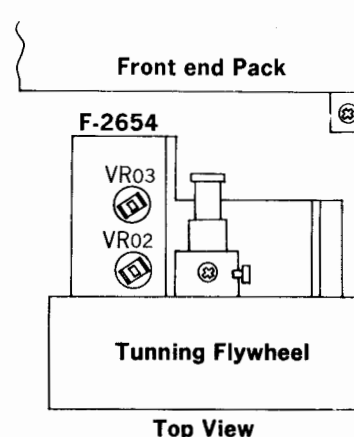


4-1-3. Dolby FM Volume Adjustment (See Fig. 4-3)

- Note:** 1. SelectorFM Auto
2. Dolby SelectorDolby FM
3. REC CAL. TONE SwitchOFF
4. Master VolumeMin.

SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR
	FROM	TO			
L-CH	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (25% MOD) R-CH (0% MOD)	FM ANT Terminal 300Ω	REC Terminal TAPE I L-CH VTVM	VR03 F-2654	Output Level 270mV
R-CH	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) R-CH 1kHz (25% MOD) L-CH (0% MOD)	Same as above	REC Terminal TAPE I R-CH VTVM	VR02 F-2654	Same as above

Fig. 4-3



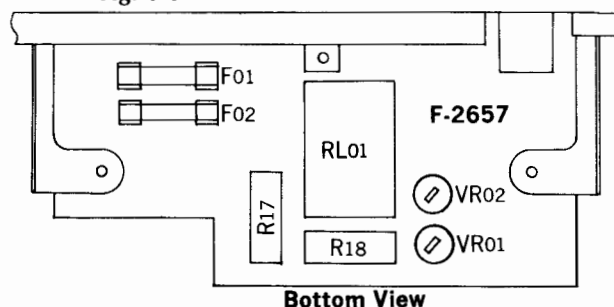
4-2. Adjustment of Audio Section

4-2-1. Power Meter Adjustment (See Fig. 4-4)

- Note:** 1. InputAUX
2. Speaker load8Ω
3. Input SignalSine Wave (1kHz)
4. Master VolumeMaximum
5. For adjustment, run the unit for more than 4 minutes after the power is switched ON.

STEP	MEASURE OUTPUT	LEVEL OUTPUT	ADJUST	ADJUST FOR
L-CH	Speaker Terminal L-CH AC Volt Meter	20V (50W)	VR01 F-2657	Meter Position 50W
R-CH	Speaker Terminal R-CH AC Volt Meter	Same as above	VR02 F-2657	

Fig. 4-4

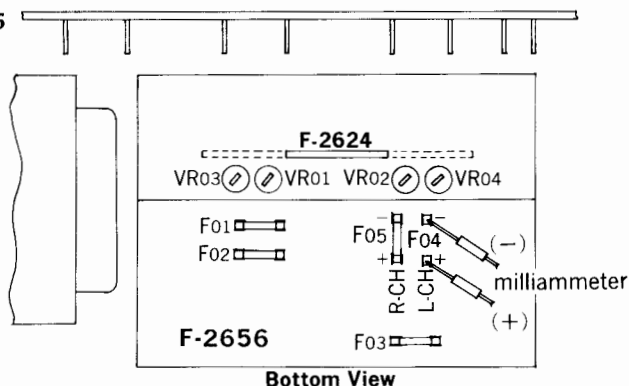


4-2-2. Driver Circuit Board Adjustment (See Fig 4-5, 4-6 page 8)

- Note:** 1. Master Volume.....Minimum
2. Before adjustment, run the unit for more than 4 minutes, then check and readjust necessary.

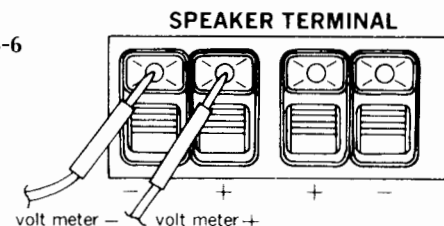
STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	DC 0V L-CH	DC volt Meter	Speaker Terminal L-CH	VR01 F-2624	0V $\pm$ 10mV	◦ Step down meter range accordingly. ◦ Change leads polarity if meter swings backward.
2.	DC 0V R-CH	Same as above	Speaker Terminal R-CH	VR02 F-2624	Same as above	Same as above
3.	Bias Current L-CH	DC Milliammeter	F04 F-2656	VR03 F-2624	30mA $\pm$ 1mA	◦ Step down meter range accordingly
4.	Bias Current R-CH	Same as above	F05 F-2656	VR04 F-2624	Same as above	◦ Same as above

Fig. 4-5



Note: In adjustment above, there are two model numbers as model A and B. Regarding name of model A and B, please refer to "Note" indicated on page 1.

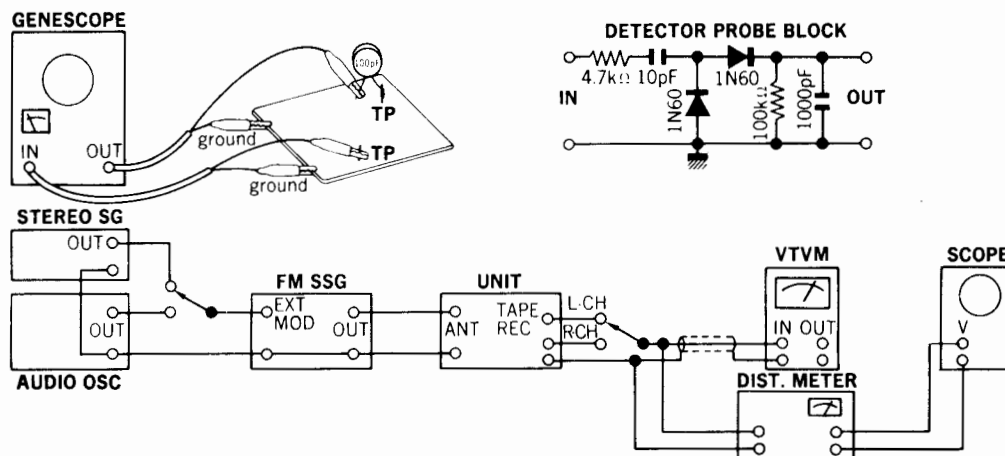
Fig. 4-6



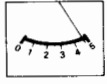
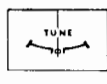
4-3. Adjustment of Tuner Section

4-3-1. FM Adjustment & Alignment

- Note:** 1. Selector.....FM AUTO
2. FM MUTING SwitchOFF
Connection.....Connect the output of genescope to TP through 100pF ceramic capacitor
Output level of genescope.....After attenuator
3. Sweep width1.5~2cm/150kHz
Frequency band9.5~11.5MHz



1) FM IF Adjustment & Tracking (See Fig. 4-7, 4-8, 4-9 on Page 9)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF coil	Output 90dB Genescope	TP01 FM, AM Pack F-1519	Terminal 01 of F-2549. Use Detector Probe	L05 F-1519	Max. IF waveform	
		Output 50dB Genescope	Same as above	TP01 F-2549	T01 F-2549	Same as above	
2.	Muting Coil	Output 50dB Genescope	Same as above	TP04 F-2549	T04 F-2549	Same as above	
3.	Discriminator Coil	Output 50dB Genescope	Same as above	TP03 F-2549	T02 T03 F-2549	Max. linearity of S Curve	
4.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT Terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L06 F-1519	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC04 F-1519	Same as above	
5.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02, L03 F-1519	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 TC02 TC03 F-1519	Same as above	
6.	Signal Meter Volume	98MHz ANT Input 100dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR02 F-2549	4.7 on meter	
7.	Distortion	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	REC OUT L or R-CH Dist meter & Scope	T02 T03 T01 F-2549	Max. Output Min. Distortion	T01..Slightly adjust
8.	Tune Meter Volume	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Tune meter	VR01 F-2549	Center on meter	

Abbreviations

Equipment

AM FM Generator Oscilloscope Genescope
 AM Standard Signal Generator..... AM SSG
 FM Standard Signal Generator..... FM SSG
 FM Stereo Generator Stereo SG
 Oscilloscope Scope
 Audio Oscillator..... Audio Osc.

Distortion Meter Dist. Meter

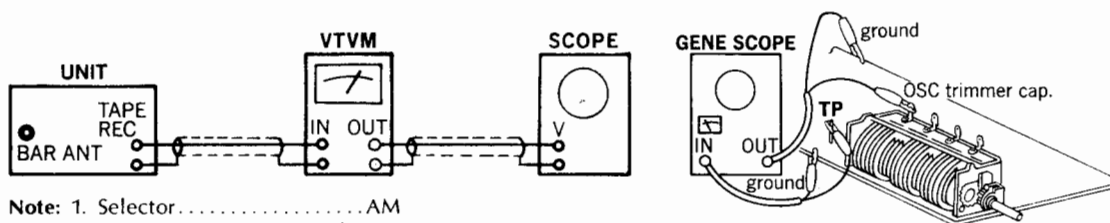
Others

Clockwise CW.
 Counterclockwise CCW.
 Antenna ANT.
 Modulation MOD.

2) MPX Adjustment (See Fig. 4-8, 4-9 on page 9)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	PLL VCO Adj.	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	ANT Terminal 300Ω	Stereo Indicator	VR04 F-2549	Light Indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq Counter		Make short between TP03 of F-2549 and chassis	TP02 F-2549 Use Freq. Counter	VR04 F-2549	76kHz (±200Hz)	
2.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH 1kHz (45% MOD) STEREO SG	ANT Terminal 300Ω	REC OUT L-CH VTVM & Scope	VR05 F-2549	Min. Output - 35dB	
3.	Distortion	Same as above	Same as above	REC OUT L-CH Dist. meter & Scope	L05 1 Side 2 Side AM, FM Pack F-1519	Min. Distortion	If less than 0.3%, adjust L05 slightly.
4.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	REC OUT R-CH VTVM & Scope	VR05 F-2549	Min. Output - 30dB	
5.	Muting level & Indicator level	98MHz ANT Input 23dB FM SSG Pilot 19kHz(10%MOD) L-CH 1kHz(45% MOD) R-CH (0% MOD) STEREO SG	Same as above	Stereo Indicator	VR03 F-2549	Muting level 23dB Indicator lighting level 23dB	

4-3-2. AM IF Adjustment & Tracking (See Fig. 4-8, 4-9 on page 9)



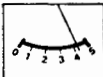
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Genescope Output 70dB	TC05 FM, AM Pack F-1519	TP06 F-2549	CF04 F-2549	Max. Output	V
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT Terminal	REC OCT L or R-CH VTVM & Scope	T05 F-2549	Same as above	
	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 FM, AM Pack F-1519	Same as above	
3.	600kHz RF Adj.	600kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	Bar Antenna T702	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC06 FM, AM Pack F-1519	Same as above	
4.	Signal Meter	1000kHz ANT Input 80dB	Same as above	Signal Meter	VR06 F-2549	4.3 on meter	

Fig. 4-7

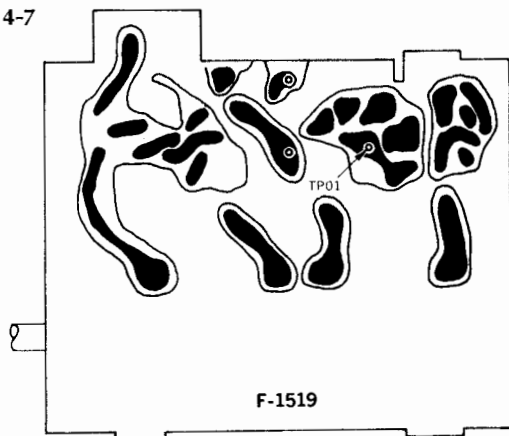


Fig. 4-8

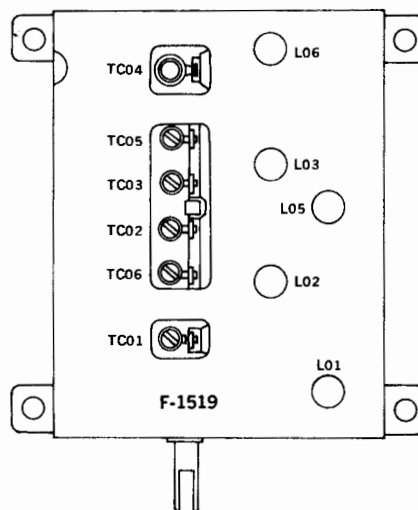
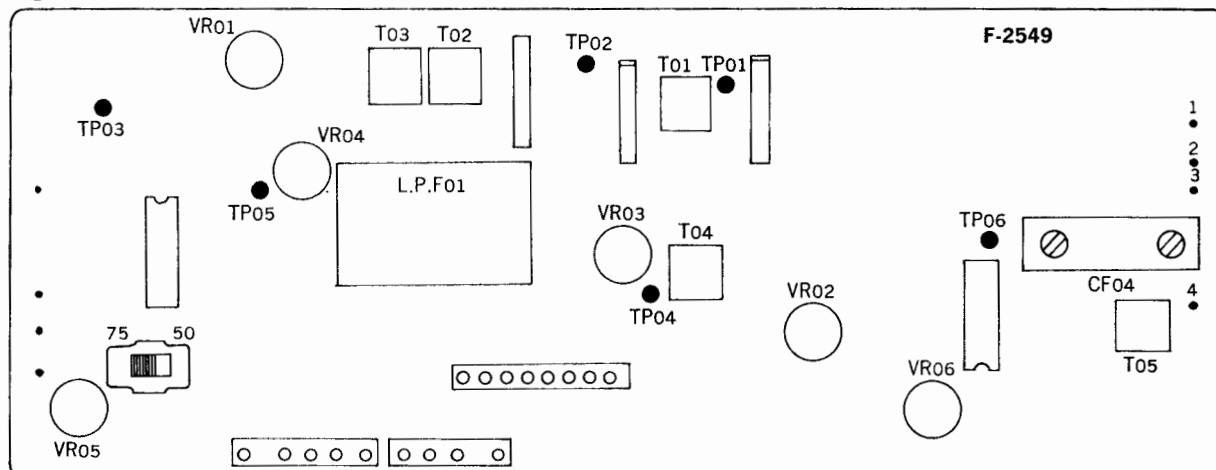


Fig. 4-9



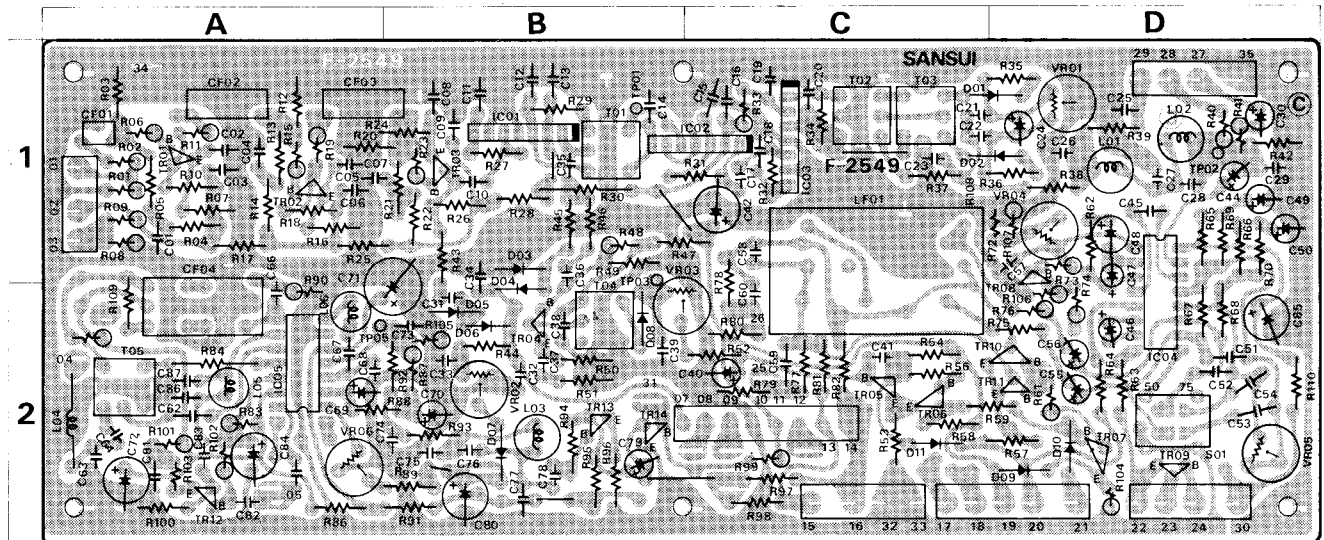
5. PARTS LOCATION AND PARTS LIST

5-1. F-2549 AM, FM Tuner Circuit Board

(Stock No. 7521401 MODEL 8080DB/8090DB) (Stock No. 7521391 MODEL 9090DB/990DB)

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Service Manual.

Conductor Side



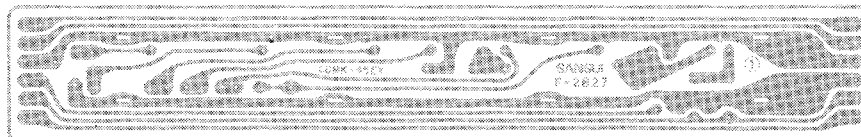
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0306113	3SC738 (D)	1A	D08	0310330.1	1N60	2B	T01	4235860		1B
TR02	0306113	2SC738 (D)	1A	D09	[0311160 1S2473D		2D	T02	4235750		1C
TR03	0306112.3	2SC738 (C, D)	1B		[0311180 1S1588			T03	4235760	FM IF Coil	1C
TR04	0306112.3	2SC738 (C, D)	2B	D10	[0311160 1S2473D	Diode	2D	T04	4235940		2B
TR05	0305731.2	2SC711 (E, F)	2C		[0311180 1S1588			T05	4220550		2A
TR06	0305731.2	2SC711 (E, F)	2C	D11	[0311160 1S2473D		2C	CF01	0910150		1A
TR07	0300281.2	2SA628 (D, E)	2D		[0311180 1S1588			CF02	0910330	Ceramic Filter	1A
TR08	0305731.2	2SC711 (E, F)	1D	C26	0620181	180pF	1D	CF03	0910330		1A
TR09	0300220.1	2SA562 (O, Y)	2D	C27	0620331	330pF	1D	CF04	0910310		2A
TR10, 11	0306390.1	2SC1636-1.2	2D	C28	0620101	100pF	1D	LF01	0910360	Low Pass Filter	1, 2C
TR12	0300281	2SA628 (D)	2A	C29	0620151	150pF	1D	VR01	1035150	22kΩ (B)	1D
TR13	0306091	2SC1312R (G)	2B	C44	0573688	0.68μF	35V T.C.	VR02	1035170	47kΩ (B)	2B
TR14	0306390.1	2SC1636-1.2	2B	C53, 54	0620511	510pF	2D	VR03	1035170	47kΩ (B)	2B, C
IC01	0360120	μPC555H	2B	C57	0629005	360pF	50V P.C.	VR04	1034250	4.7kΩ (B)	1D
IC02	0360120	μPC555H	1B, C	C63	0669400	15pF	2A	VR05	1035210	220kΩ (B)	2D
IC03	0360120	μPC555H	1C	C64	0620361	360pF	50V C.C.	VR06	1035110	4.7kΩ (B)	1A
IC04	0360320	HA1196	1, 2D	C86	0661150	15pF	2A	S01	1110270	Slide Switch	
IC05	0360150	HA1151	2A	C87	0661150	15pF	2A	0990010		Ceramic Filter	
D01	0311060	1N60-P	1C, D	L01	4900250		1D	2410570		5P Pin Ass'y Type D	
D02	0311060	1N60-P	1C, D	L02	4900240	Inductor	1D	2410580		3P Pin Ass'y Type D	
D03	0310330.1	1N60	1B	L03	4900220		2B	2410590		4P Pin Ass'y Type D	
D04	0310330.1	1N60	2B	L04	4290011		2A				
D05	0310330.1	1N60	2B	L05	4900110	Inductor	2A				
D06	0310330.1	1N60	2B	L06	4900110		2A				
D07	0310330.1	1N60	2B								

5-2. F-2627 Illumination Circuit Board (Stock No. 7594211 MODEL 8080DB/890DB)

(Stock No. 7594301 MODEL 9090DB/990DB)

Conductor Side

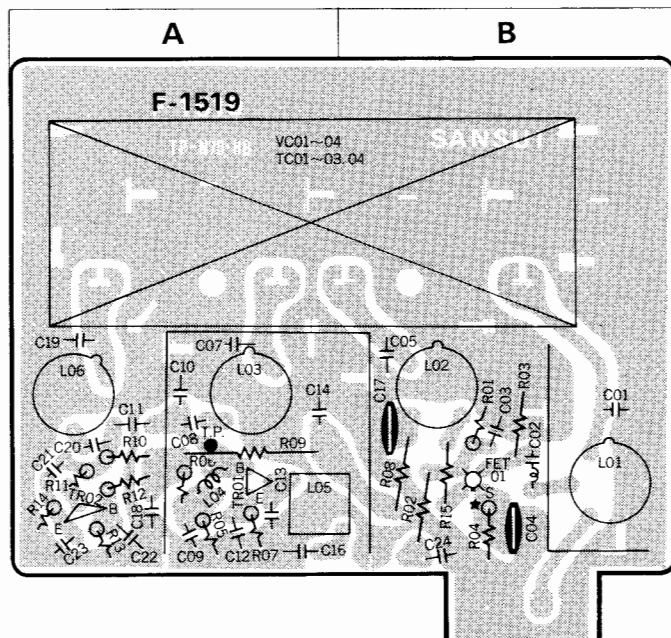


Parts List

Parts No.	Stock No.	Description
R01	0191180	18Ω 1/4W Fuse R
PL01-04	0420040	7V 320mA Pilot Lamp

5-3. F-1519 Front-end Pack (Stock No. 7510631)

Conductor Side



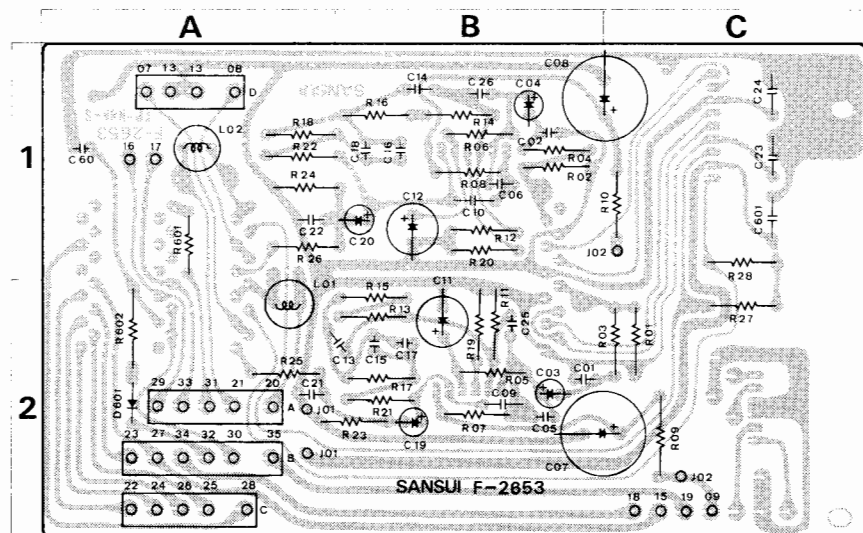
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305800.1	2SC1047 (A, B)	A	L04	4290110	Choke Coil	A
TR02	0305790.1	2SC930 (C, D)	A	L05	4235910	IF Coil	A, B
FET01	0370131.2	3SK41 (K, L)	B	L06	4220430	OSC Coil	A
L01	4200640	Antenna Coil	B	VC01-04			A, B
L02	4210330	RF Coil (1)	B	TC01-03	1220130	FM, AM Variable Capacitor	A, B
L03	4210220	RF Coil (2)	A	TC04	1230090	FM OSC Trimmer	A, B

Parts No.	Stock No.	Description	Position
C01	0669342	5.6pF	
C02	0657102	1000pF	B
C03	0657223	0.022μF	B
C04	0659015	2200pF	B
C05	0669345	10pF	B
C06	0679023	0.39pF	B
		500V Gimmick	B
		Capacitor	
C07	0669345	10pF	A
C08	0669210	10pF	A
C09	0657102	1000pF	A
C10	0661220	22pF	A
C11	0669202	2.2pF	A
C12	0657223	0.022μF	A
C13	0660121	120pF	A
C14	0657223	0.022μF	A
C16	0660331	330pF	A
C17	0659015	2200pF	B
C18	0657223	0.022μF	A
C19	0669375	15pF	A
C20	0657102	1000pF	A
C21	0669209	8.2pF	A
C22	0657223	0.022μF	A
C23	0661220	22pF	A
C24	0657223	0.022μF	B
R01	0106105	1MΩ	1/4W C.R.(E.L.R.)
R02	0113104	100kΩ	1/4W S.R.
R03	0113104	100kΩ	1/4W S.R.
R04	0106101	100Ω	(3SK41(1)K)
R05	0106680	68Ω	(3SK41(1)L)
R06	0106682	6.8kΩ	1/4W C.R.(E.L.R.)
R07	0106123	12kΩ	A
R08	0106392	3.9kΩ	A
R09	0113121	120Ω	1/4W S.R.
R10	0113271	270Ω	A
R11	0106392	3.9kΩ	A
R12	0106121	120Ω	A
R13	0106682	6.8kΩ	1/4W C.R.
R14	0106222	2.2kΩ	A
R15	0106182	1.8kΩ	A
R16	0113680	68Ω	1/4W S.R.
	2260010	Test Pin	

5-4. F-2653 Equalizer Circuit Board (Stock No. 7550971 MODEL 8080DB/890DB) (Stock No. 7551001 MODEL 9090DB/990DB)

Conductor Side



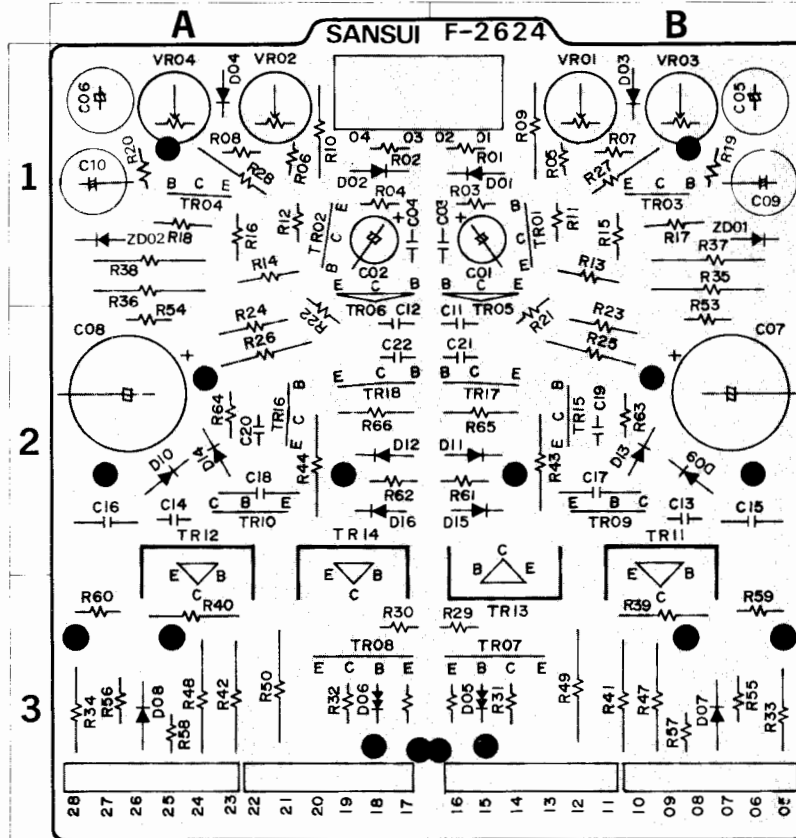
Parts List

Parts No.	Stock No.	Description	Position
IC01, 02	0360190	BA312 IC	
D01	0311160	1S2473D	2A
	0311180	1S1588	
C03, 04	0573339	3.3μF	35V T.C.
C13, 14	0625472	4700pF	2B.1 B
C15, 16	0625102	1000pF	50V P.C.
C17, 18	0620361	360pF	2B.1 B
R13, 14	0231564	560kΩ	1/2W M.R.
R17, 18	0231563	56kΩ	2B.1 B
L01, 02	4900090	Inductor	2A.1 A
S01	1104350	Rotary Switch	
	2410570	5P Pin Ass'y Type D	
	2410590	4P Pin Ass'y Type D	
	2410600	6P Pin Ass'y Type D	

5-5. F-2624 Driver Circuit Board (Stock No. 7571431 MODEL 8080DB/890DB) (Stock No. 7571461 MODEL 9090DB/990DB)

Conductor Side

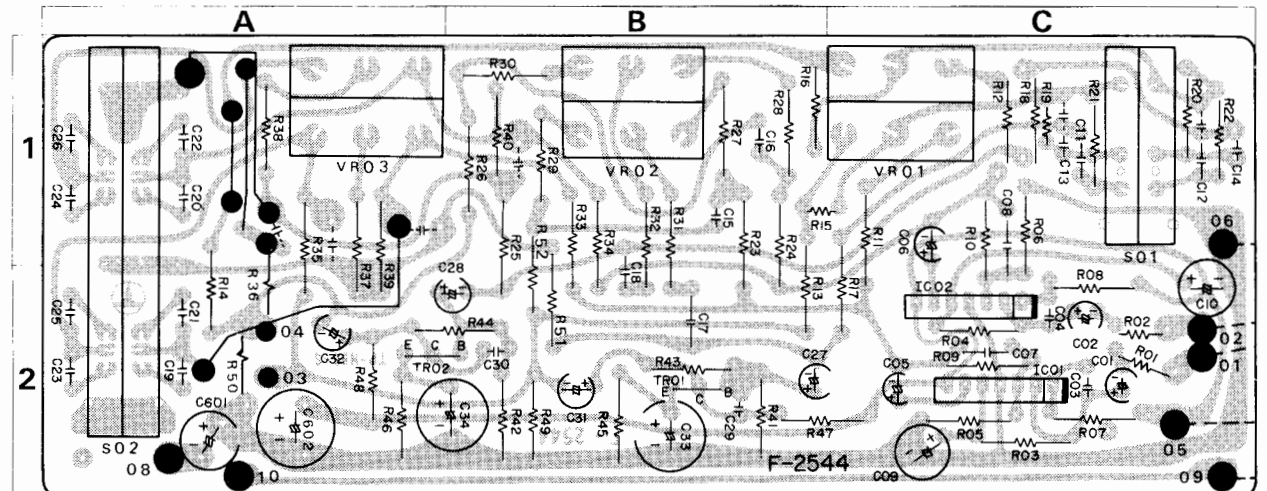
Parts List



Parts No.	Stock No.	Description	Position
TR01	0306290, 1	2SC1400 (E, U)	1B
TR03	0306290, 1	2SC1400 (E, U)	1B
TR05, 06	0300791, 2	2SA899 (B, V)	1B, 1A
TR07, 08	0304401, 2	2SC1904 (B, V)	3B, 3A
TR09, 10	0305871, 2	2SC984 (B, C)	2B, 2A
TR15, 16	0305951, 2	2SC945 (Q, F)	2B, 2A
TR17, 18	0300510, 1	2SA733 (P, Q)	2B, 2A
D01, 02	0311160	1S2473D	1B, 1A
D03, 04	0311180	1S1588	1B, 1A
D05, 06	0311160	1S2473D	1B, 1A
D07, 08	0311180	1S1588	1B, 1A
D09, 10	0311160	1S2473D	2B, 2A
D11, 12	0311180	1S1588	2B, 2A
D13, 14	0311160	1S2473D	2B, 2A
D15, 16	0311180	1S1588	2B, 2A
ZD01, 02	0316070	EQA01-24R Zener Diode	1B, 1A
R33, 34	0191181	180Ω	3B, 3A
R35, 36	0191479	4.7Ω	1B, 1A
R37, 38	0210392	3.9kΩ	1B, 1A
R39, 40	0192100	10Ω	3B, 3A
R41, 42	0192151	150Ω	3B, 3A
R43, 44	0192151	150Ω	2B, 2A
R47, 48	0192479	4.7Ω	3B, 3A
R49, 50	0192479	4.7Ω	3B, 3A
VR01, 02	1035350	4.7kΩ (B)	1B, 1A
VR03, 04	1035310	1kΩ (B)	1B, 1A
2410930		4P Pin Ass'y Type E	
2420520		6P Connector Ass'y Type A	
MODEL 8080DB/890DB Only			
TR11, 12	0308431, 2	2SD381 M, L	2B, 1A
TR13, 14	0303260, 1	2SB536 N, M	2B, 1A
MODEL 9090DB/990DB Only			
TR11, 12	0308531, 2	2SD381 (2) M, L	2B, 1A
TR13, 14	0303371, 2	2SB536 (2) M, L	2B, 1A

5-6. F-2544 Tone Control Circuit Board (Stock No. 7561511 MODEL 8080DB/890DB) (Stock No. 7561551 MODEL 9090DB/990DB)

Conductor Side

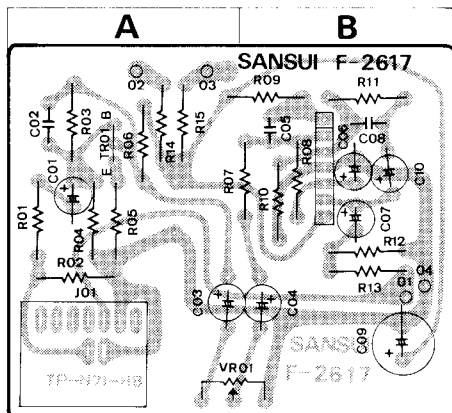


Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070-2	2SC1313 (F, G, H)	2C, 2A
IC01, 02	0360190	BA312 IC	2C
C01, 02	0573109	1.0μF	2C
C27, 28	0573229	2.2μF	2B
VR01	1010930, 1	100kΩ (B)	1C
VR02	1010930, 1	100kΩ (B)	1B
MODEL 9090DB/990DB Only			
S01	1171240	Lever Switch	1C
S02	1171220	Lever Switch	1, 2A

5-7. F2617 Mic AMP. Circuit Board (Stock No. 7610111 MODEL 8080DB/890DB) (Stock No. 7610121 MODEL 9090DB/990DB)

Conductor Side

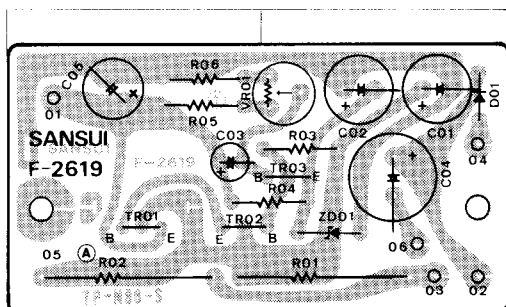


Parts List

Parts No.	Stock No.	Description	Position
TR01	0306070-2	2SC1313 (F, G, H) Transistor	A
IC01	0360190	BA312 IC	
C01	0573687	0.068 μ F 25V T.C.	A
VR01	1005290, 1	20k Ω Volume	A, B
J01	2430240	Mic Jack	A
MODEL 9090DB/990DB Only			
C08	0620561	560pF 50V P.C.	B

5-8. F-2619 Power Supply Circuit Board of RF Section (Stock No. 7501921 MODEL 8080DB/890DB) (Stock No. 7501991 MODEL 9090DB/990DB)

Conductor Side

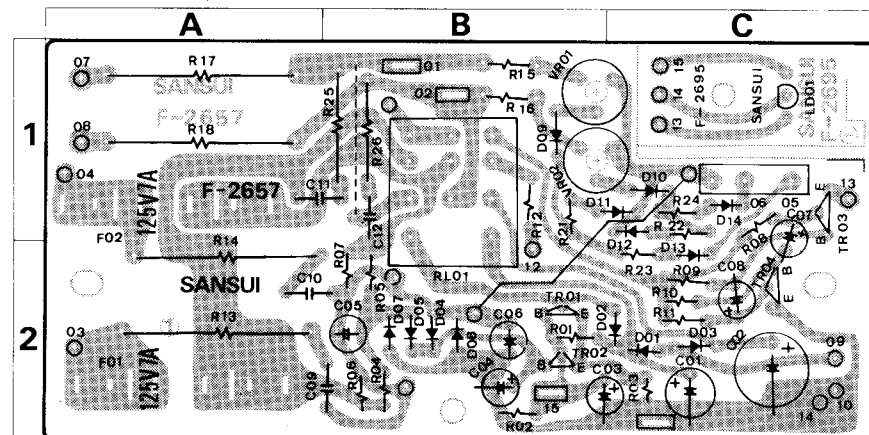


Parts List

Parts No.	Stock No.	Description	Position
TR01	0308391-3	2SD313 (D, E, F) Transistor	A
TR02	0305930-1	2SC1211 (C, D) Transistor	A
TR03	0306131, 2	2SC1364 (6, 7) Transistor	B
D01	0310340	10D1 Diode	B
ZD01	0315760	EQA01-06R Zener Diode	B
R01	0133330	33 Ω 3W Ca.R.	B
R02	0133330	33 Ω 3W Ca.R.	A
VR01	1035130	10k Ω (B) Volume	B

5-9. F-2657 Power Relay Circuit Board (Stock No. 7501901 MODEL 8080DB/890DB) (Stock No. 7501971 MODEL 9090DB/990DB)

Conductor Side



Parts List

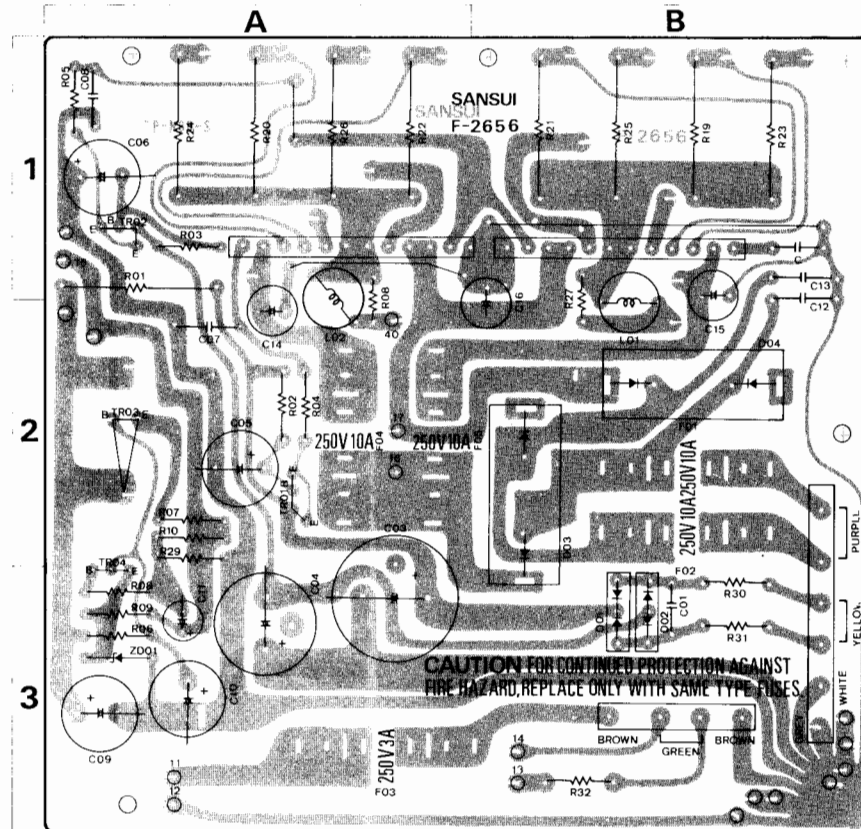
Parts No.	Stock No.	Description	Position
TR01	0305953	2SC945 (K) Transistor	2B
TR02	0305951-3	2SC945 (Q, P, K) Transistor	2B
TR03, 04	0305952, 3	2SC945 (P, K) Transistor	1C, 2C
D01	0310340	10D1 Diode	2C
D02	0310340	10D1 Diode	2C
D03	0310340	10D1 Diode	2C
D04	0310330, 1	1N60 Diode	2B
D05	0310330, 1	1N60 Diode	2B
D06	0310330, 1	1N60 Diode	2B
D07	0310330, 1	1N60 Diode	2B
D09, 10	0310970	1N60P Diode	1B, 1C
D11, 12	0311160	1N60-P Diode	1C, 2C
D13, 14	0311180	1S1588 Diode	2C, 1C
R13, 14	0192479	4.7 Ω 1/2W Fuse R.	2A
R15, 16	0201101	100 Ω 1W M.R.	1B
R17, 18	0135221	220 Ω 5W Ca.R.	1A
R25, 26	0203100	10 Ω 3W M.R.	1B
RL01	1150390	Relay	1B
VR01, 02	1035350	4.7k Ω (B) Volume	1B
F01, 02	0432500	7A 125V Speaker Fuse	2A, 1A

5-10. F-2656 Power Supply Circuit Board

 (Stock No. 7501911 MODEL/890DB)
 (Stock No. 7501981 MODEL/990DB)

Conductor Side

Parts List



Parts No.	Stock No.	Description	Position
TR01	{0306171.2 0308520.1}	2SC1509 (Q, R) 2SD438 (D, E)	2 A
TR02	{0300591.2 0303360.1}	2SA777 (Q, R) 2SB560 (D, E)	1 A
TR03	{0306351.2 0308551.2}	2SC1024 (D, E) 2SD315V10 (D, E)	3 A
TR04	0305930.1	2SC1211 (C, D)	3 A
D01	0310800	100C2	3 B
D02	0310801	100C2R	3 B
D03	0311310	SS-5	2 B
D04	0311320	SS-5R	2 B
ZD01	0315970	EQA01-13R Zener Diode	3 A
C01	0655103	10000 pF 500V C.C.	3 B
C03	0549302	1000 pF 80V E.R.	3 A
C04	0549301	470 pF 80V E.R.	3 A
C07, 08	0655103	10000 pF 500V C.C.	2 A, 1 A
C12, 13	0655103	10000 pF 500V C.C.	1 B
R01	0135560	56 Ω	1 A
R19, 20	0135338	0.33 Ω 5 W Ce.R.	1 B, 1 A
R21, 22	0135338	0.33 Ω	1 B, 1 A
R27, 28	0103479	4.7 Ω 1/2 W C.R.	1 B, 1 A
R30, 31	0192109	1.0 Ω	3 B
R32	0192109	1.0 Ω 1/2 W Fuse.R.	3 B
L01, 02	4290210	Filter Coil	1, 2 A B
F03	0432260	3A 250V AC Fuse	3 A
	2410730	6P Pin Ass'y Type A	
	2410950	6P Pin Ass'y Type E	
	2420510	4P Connector Ass'y Type A	

MODEL 8080DB/890DB Only

F01, 02	0432500	7A 125V AC Fuse
F04, 05	0432500	7A 125V Q.A. Fuse

MODEL 9090DB/990DB Only

R23, 24	0135338	0.33 Ω 5 W Ce.R.	1 B, 1 A
R25, 26	0135338	0.33 Ω	1 B, 1 A
F01, 02	0431320	10A 250V AC Fuse	
F04, 05	0431320	10A 250V Q.A. Fuse	

5-11. F-2684 Connector Circuit Board (C)

(Stock No. 7594491 MODEL 8080DB/890DB) (Stock No. 7594441 MODEL 9090DB/990DB)

Parts List

Parts No.	Stock No.	Description
	2411030	6P Mini Pin Ass'y
	2411150	6P Mini Pin Ass'y

5-12. F-2682 Connector Circuit Board (A)

(Stock No. 7594471 MODEL 8080DB/890DB) (Stock No. 7594451 MODEL 9090DB/990DB)

Parts List

Parts No.	Stock No.	Description
	2411180	9P Mini Pin Ass'y

5-13. F-2683 Connector Circuit Board (B)

(Stock No. 7594481 MODEL 8080DB/890DB) (Stock No. 7594461 MODEL 9090DB/990DB)

Parts List

Parts No.	Stock No.	Description
	2411150	6P Mini Pin Ass'y MODEL 8080DB only

5-14. F-2692 Connector Circuit Board

(Stock No. 7594881 MODEL 8080DB/890DB) (Stock No. 7594871 MODEL 9090DB/990DB)

5-15. F-2695 LED Ass'y Circuit Board

(Stock No. 7594621 MODEL 8080DB/890DB) (Stock No. 7594611 MODEL 9090DB/990DB)

Parts List

Parts No.	Stock No.	Description
LD01	0319040	GL-40RG8 LED

Abbreviations

C.R. : Carbon Resistor
S.R. : Solid Resistor
Ce.R. : Cement Resistor
M.R. : Metallized Film Resistor
F.R. : Fusing Resistor

N.I.R. : Non-Inflammable Resistor
M.C. : Mylar Capacitor
E.C. : Electrolytic Capacitor
BP.E.C. : Bi-Polar Electrolytic Capacitor

C.C. : Ceramic Capacitor
Mi.C. : Mica Capacitor
O.C. : Oil Capacitor
P.C. : Polystyrene Capacitor
T.C. : Tantalum Capacitor

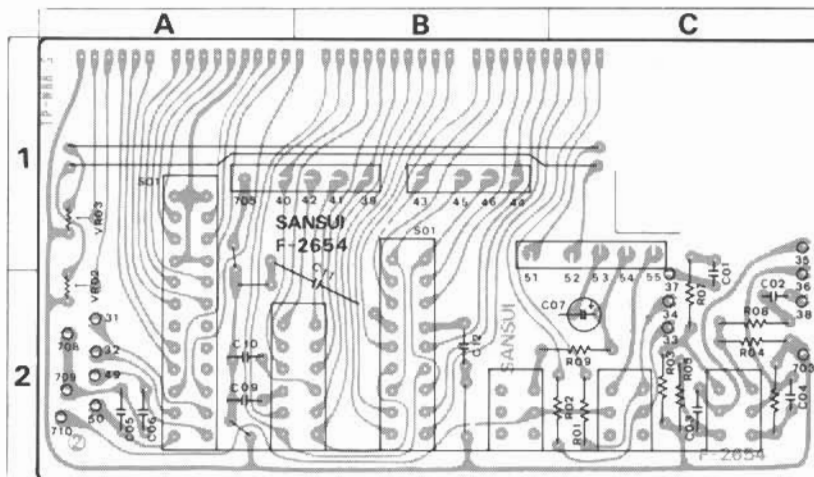
5-16. F-2654 Push Switch Circuit Board

(Stock No. 7594181 MODEL 8080DB/890DB)

(Stock No. 7594271 MODEL 9090DB/990DB)

Conductor Side

Parts List



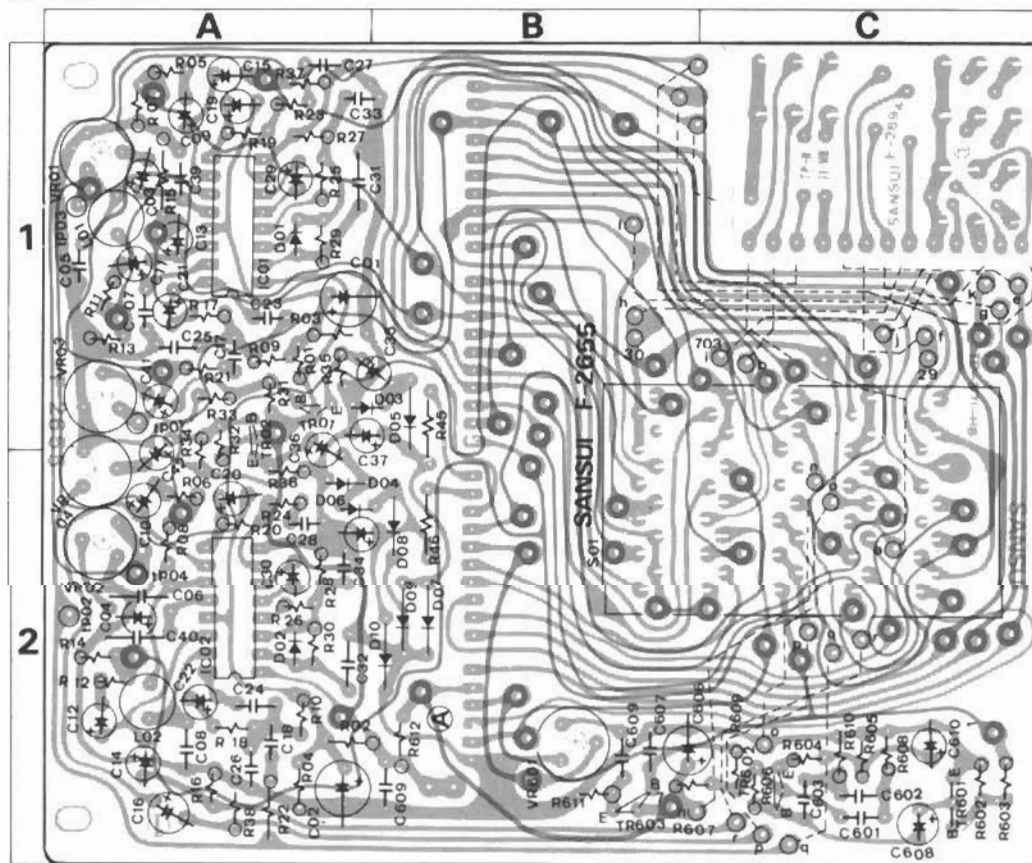
Parts No.	Stock No.	Description
C01, 02	0620331	330pf 50V P.C.
S01	1131380	Push Switch
	2410570	5P Pin Ass'y Type D
	2410590	4P Pin Ass'y Type D
	2410690	5P Pin Ass'y Type F

5-17. F-2655 Dolby NR Circuit Board

(Stock No. 7660041 MODEL 8080DB/890DB)

(Stock No. 7660051 MODEL 9090DB/990DB)

Conductor Side



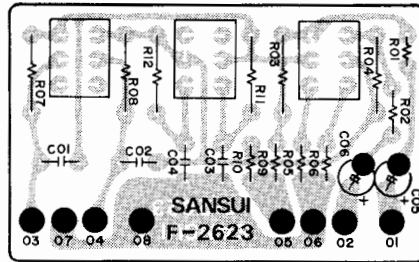
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position		
TR01, 02	0305951, 2	2SC945 (Q, P)	1 A	D05	0310970	1N60P	1 B	VR01, 02	1035190	100k12 (8)	1 A, 2 A		
TR01	0305951, 2	2SC945 (Q, P)	2 C		0311060	1N60-P		VR03, 04	1035170	47k12 (8)		1 A, 2 A	
TR02	0305951, 2	2SC945 (Q, P)	2 C		0310970	1N60P		Diode	VR05	1065051			47k12 (8)
TR03	0305951, 2	2SC945 (Q, P)	2 B		0311060	1N60-P			VR06	1015221			47k12 (8)
IC01, 02	0360340	NE5458 IC	1 A, 2 A	D09, 10	0310970	1N60P	2 B	VR01	1035170	47k12 (8)	2 B		
D01, 02	0310403	1N34A	1 A, 2 A	C03, 04	0573109	1μF 35V T.C.	1 A, 2 A	S01	1105220	Rotary Switch	2 C		
	D03	0310970			1N60P	Diode						1 A, B	L01, 02
	0311060	1N60-P											

5-18. F-2623 Filter Circuit Board

(Stock No. 7594201 MODEL 8080DB/890DB)
(Stock No. 7594291 MODEL 9090DB/990DB)

Conductor Side



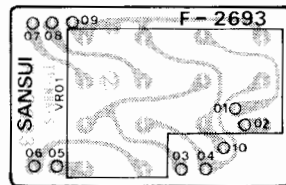
Parts List

Parts No.	Stock No.	Description
S01	1131170	Push Switch
	2410590	4P Pin Ass'y Type D

5-19. F-2693 Push Switch Circuit Board

(Stock No. 7594841 MODEL 8080DB/890DB)
(Stock No. 7594831 MODEL 9090DB/990DB)

Conductor Side



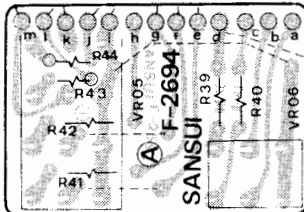
Parts List

Parts No.	Stock No.	Description
VR01	1060320.1	250kΩ M.N (8) × 2 Volume

5-20. F-2694 Dolby Volume Circuit Board

(Stock No. 7594861 MODEL 8080DB/890DB)
(Stock No. 7594851 MODEL 9090DB/990DB)

Conductor Side



Parts List

Parts No.	Stock No.	Description
VR05	1065060	500kΩ (8) × 4
VR06	1015220	500kΩ (8) × 2

5-21. F-2690 DIN Terminal Circuit Board

(Stock No. 7594191 MODEL 8080DB/890DB)
(Stock No. 7594281 MODEL 9090DB/990DB)

Conductor Side



Parts List

Parts No.	Stock No.	Description
J01	2090030	5P Connector Socket

5-22. Figures Connectors & Pin Ass'y

Connectors

Type A (3~10 pins)	Type B (2~6 pins)	Stock No.
		2 Pins 2420450
		3 Pins 2420460
		3 Pins (RTL) 2420650
		4 Pins 2420470
		5 Pins 2420480
		6 Pins 2420490

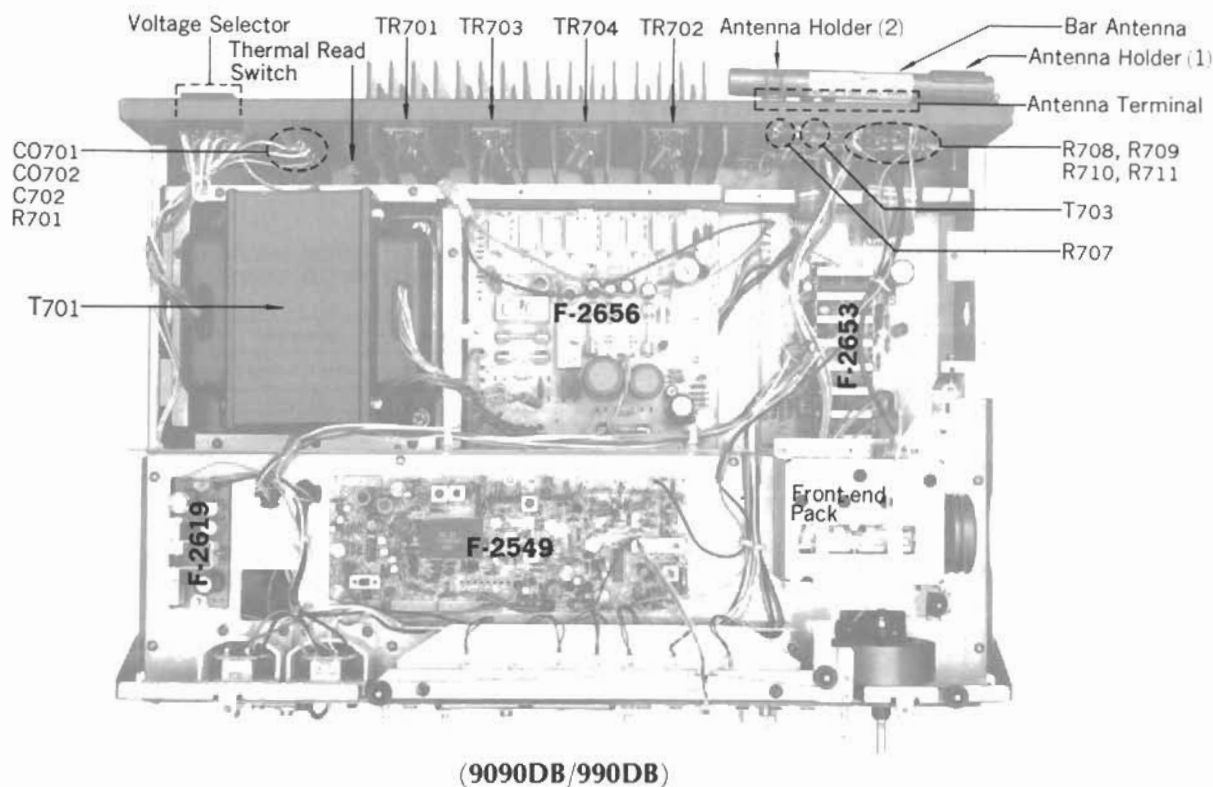
NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Pin Ass'y

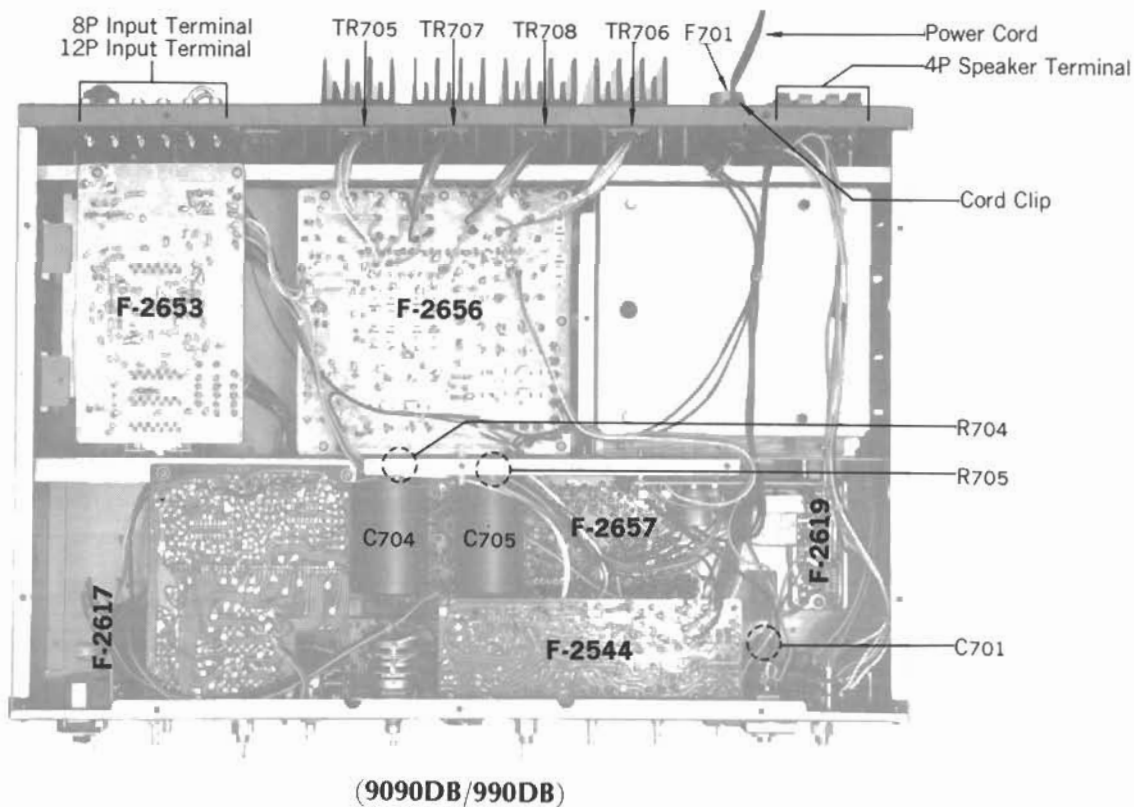
Type A (3~10 pins)	Type B (3~10 pins)	Type C (3~10 pins)
Type D (2~6 pins)	Type E (2~6 pins)	Type F (2~6 pins)

6. OTHER PARTS

6-1. Top Side



6-2. Bottom Side



Parts List (Top Side & Bottom Side)

Parts No.	Stock No.	Description	Position
C701	0605337	0.033 μ F 250V M.C.	
C702	0659802	0.0047 μ F 150V C.C.	
R701	0114335	3.3M Ω $\frac{1}{2}$ W S.R.	
R704, 705	0104472	4.7k Ω 1W C.R.	
R707	0103122	1.2k Ω $\frac{1}{2}$ W C.R.	
T702	4200760	Bar Antenna	
T703	4290021	75 Ω /300 Ω Balun	
S703	1900020	Thermal Reed Switch	
	2300060	Power Fuse Holder	
CO701, 702	2450060	AC Outlet	
	2200450	8P Input Terminal	
	2200490	12P Input Terminal	
	2210310	Antenna Terminal	
	2230150	Ground Terminal	
	2290160	4P Speaker Terminal	
	2410091	Voltage Selector, plug	
	2410830	Voltage Selector, socket	
	3800010	Power Cord	
	3910490	Cord Clip, power cord	
	5286450	Antenna Holder (1)	
	5286480	Antenna Holder (2)	
	3910510	Cord Clip, antenna	

8080DB/890DBOnly

TR701, 702	0305840	2SC1116 (R)	} Transistor
	or	or	
TR703, 704	0305841	2SC1116 (O)	
	or	or	
TR705, 706	0300520	2SA747 (R)	} Transistor
	or	or	
TR707, 708	0300521	2SA747 (O)	
	or	or	
C703, 704	0559518	12000 μ F 63V E.C.	
T701	4002540	Power Transformer	
F701	0432280	4A, 125V (AC 220~240V)	
	0432500	7A, 125V (AC 100~120V)	

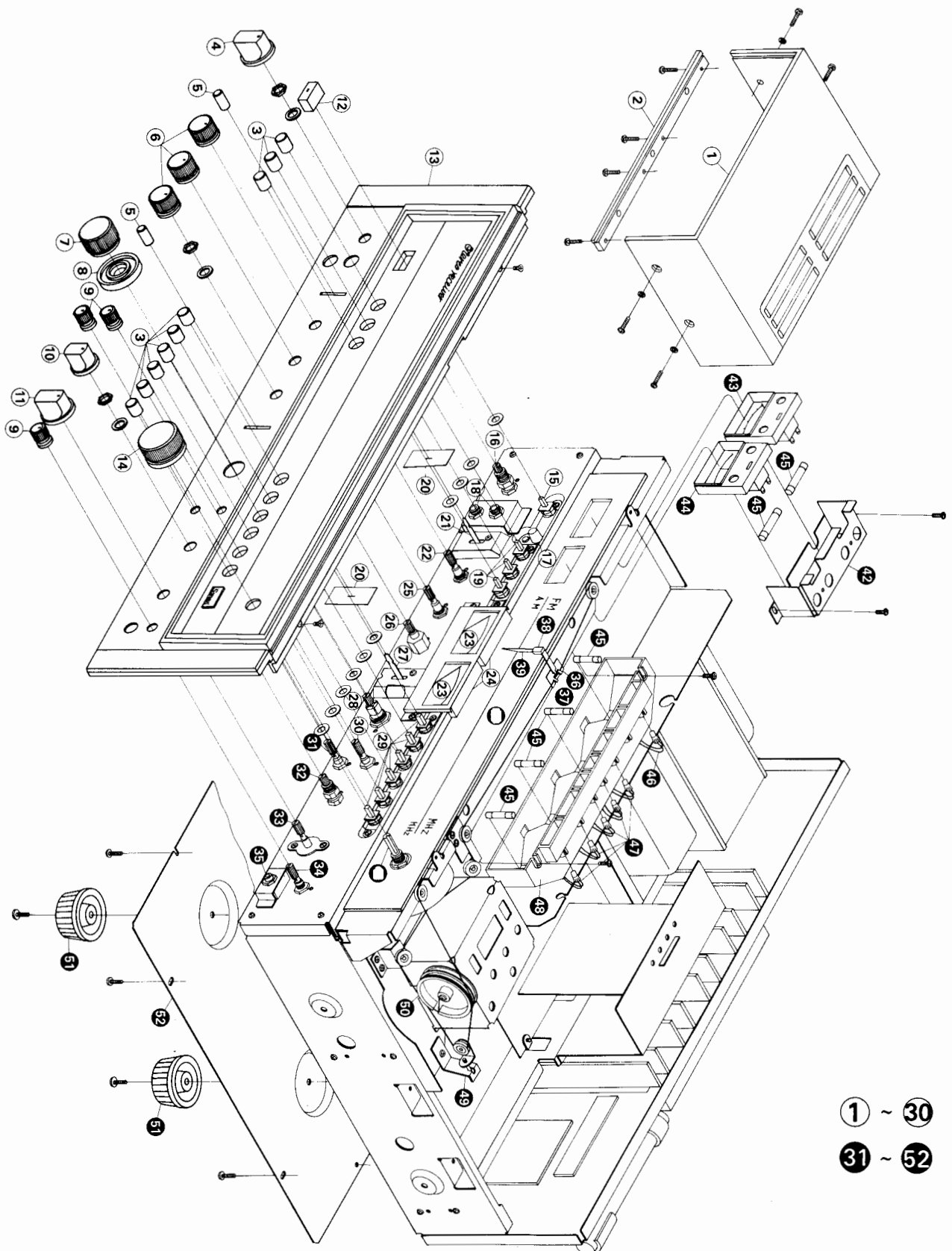
9090DB/990DBOnly

TR701, 702	0308470	2SD424 (R)	} Transistor
	or	or	
TR703, 704	0308471	2SD424 (O)	
	or	or	
TR705, 706	0303300	2SB554 (R)	} Transistor
	or	or	
TR707, 708	0303301	2SB554 (O)	
	or	or	
C703, 704	0308470	2SD424 (R)	} Transistor
	or	or	
TR705, 706	0308471	2SD424 (O)	
	or	or	
TR707, 708	0303300	2SB554 (R)	} Transistor
	or	or	
C703, 704	0303301	2SB554 (O)	
	or	or	
C703, 704	0559844	12000 μ F 80V E.C.	
T701	4002530	Power Transformer	
F701	0432500	7A, 125V (AC 220~240V)	
	0434060	10A, 250V (AC 100~120V)	

Parts List (Exploded View)

Parts No.	Stock No.	Description
1	5726923	Bonnet (8080DB/890DB)
	5726933	Bonnet (9090DB/990DB)
2	5996104	Panel Sash (8080DB)
	5996098	Panel Sash (9090DB)
	5996104	Panel Sash (890DB)
	5996093	Panel Sash (990DB)
3	5326560	Push Knob (890DB/990DB)
	5326550	Push knob (8080DB/9090DB)
4	5318380	Speakers Knob, M-7 Type (8080DB/890DB)
	5318400	Speakers Knob, E-2 Type (9090DB/990DB)
5	7106130	Lever Switch Knob, C-2 Type (9090DB/990DB)
6	5318410	S-10 Type Knob
7	5318440	Volume Knob, WI-6 Type
8	5318431	Balance Volume Knob, WO-8 Type
9	5318340	N-6 Type Knob
10	5318410	S-10 Type Knob (8080DB/890DB)
	5318390	E-1 Type Knob (9090DB/990DB)
11	5318380	M-7 Type Knob (8080DB/890DB)
	5318400	E-2 Type Knob (9090DB/990DB)
12	5326570	Push Button
13	7007450	Front Panel Ass'y (8080DB)
	7007430	Front Panel Ass'y (890DB)
	7007420	Front Panel Ass'y (990DB)
	7007440	Front Panel Ass'y (9090DB)
	5309840	Panel Window } 8080DB/890DB
	5336500	Sansui Mark } 9090DB/990DB
	5446330	Smoked Plate (8080DB)
	5446310	Smoked Plate (9090DB)
	5446340	Smoked Plate (890DB)
	5446320	Smoked Plate (990DB)
14	5318420	Tuning Knob, T-12 Type (8080DB/9090DB)
	5318450	Tuning Knob, T-13 Type (890DB/990DB)
15	1131190	Power Switch
16	1104360, 1	Speakers Switch
17	0319040	Power Indicator, LED
18	2430190	Head Phone Jack
19	1131270	Push Switch
20	5047470	Masking, Lever Switch (9090DB/990DB)
21	1171220	Bass Selector (9090DB/990DB)
22	1010930, 1	Bass Volume, 100k Ω B
23	4301010	Power Meter
24	7726180	Power Meter Circuit Board
25	1010930, 1	Midrange Volume, 100k Ω B
26	1010930, 1	Treble Volume, 100k Ω B
27	1171240	Treble Selector (9090DB/990DB)
28	1060320, 1	Master & Balance Volume
29	1131380	Push Switch
30	1015220, 1	PLAY CAL Control Volume, 50k Ω $\times$ 2
31	1065051	REC LEVEL Control, 500k Ω B $\times$ 4
32	1105220	Dolby NR Switch
34	1005290, 1	MIC Volume, 20k Ω
35	2430240	MIC Jack
36	5416350	Holder Dial Pointer
37	5516030	Teflon Sheet
38	0400450	Dial Pointer Lamp
39	5416050	Dial Pointer
40	5408120	Dial Glass
41	7036453	Tuning Unit
42	5288390	Meter Holder
43	4300740	Signal Meter
44	4300750	Tune Meter
45	0420040	Meter Lamp
46	0400420	FM Stereo Indicator
47	0400540	Indicator Lamp
48	5066211	Illumination Box
49	7136082	Tension Unit
50	6146670	Dial pulley, D-44
51	5517050	Leg
52	5058512	Bottom Plate (8080DB/9090DB)
	5058111	Bottom Plate (890DB/990DB)

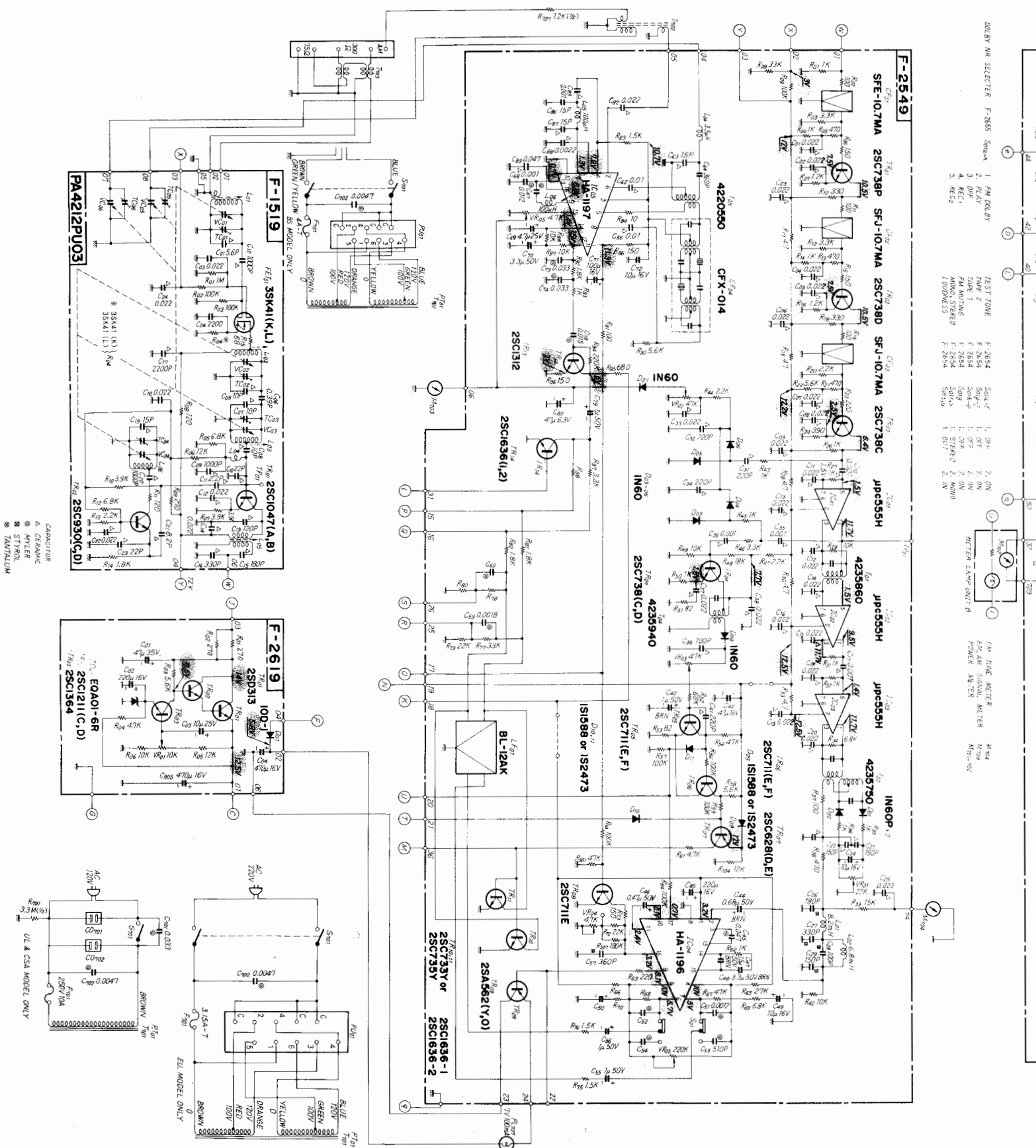
6-3. Exploded View



1 ~ 30
31 ~ 52

7. SCHEMATIC DIAGRAM

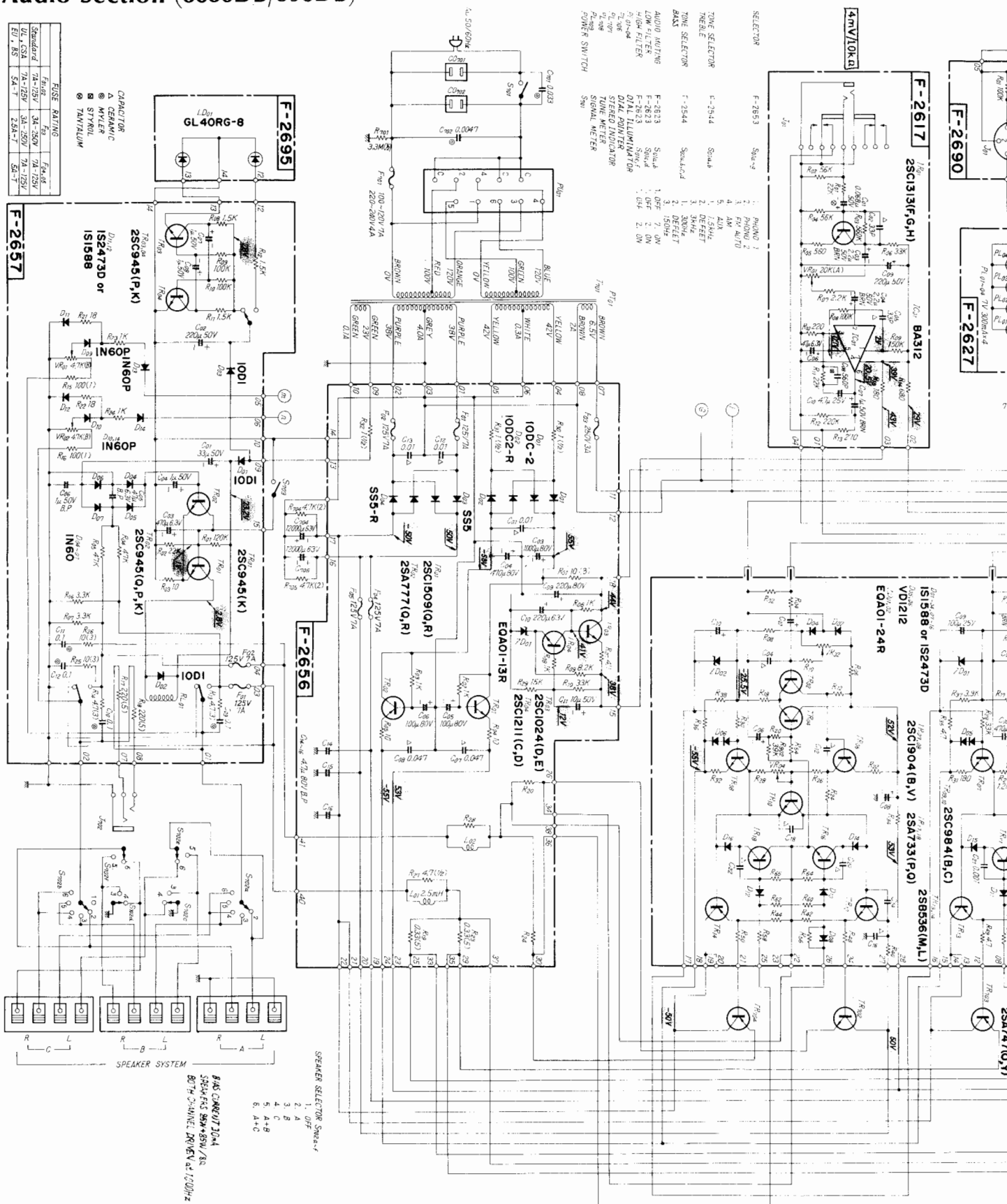
7-1. Tuner Section (8080DB/9090DB,890DB/990DB)



* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 * Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
 * Design and specifications subject to change without notice for improvements.

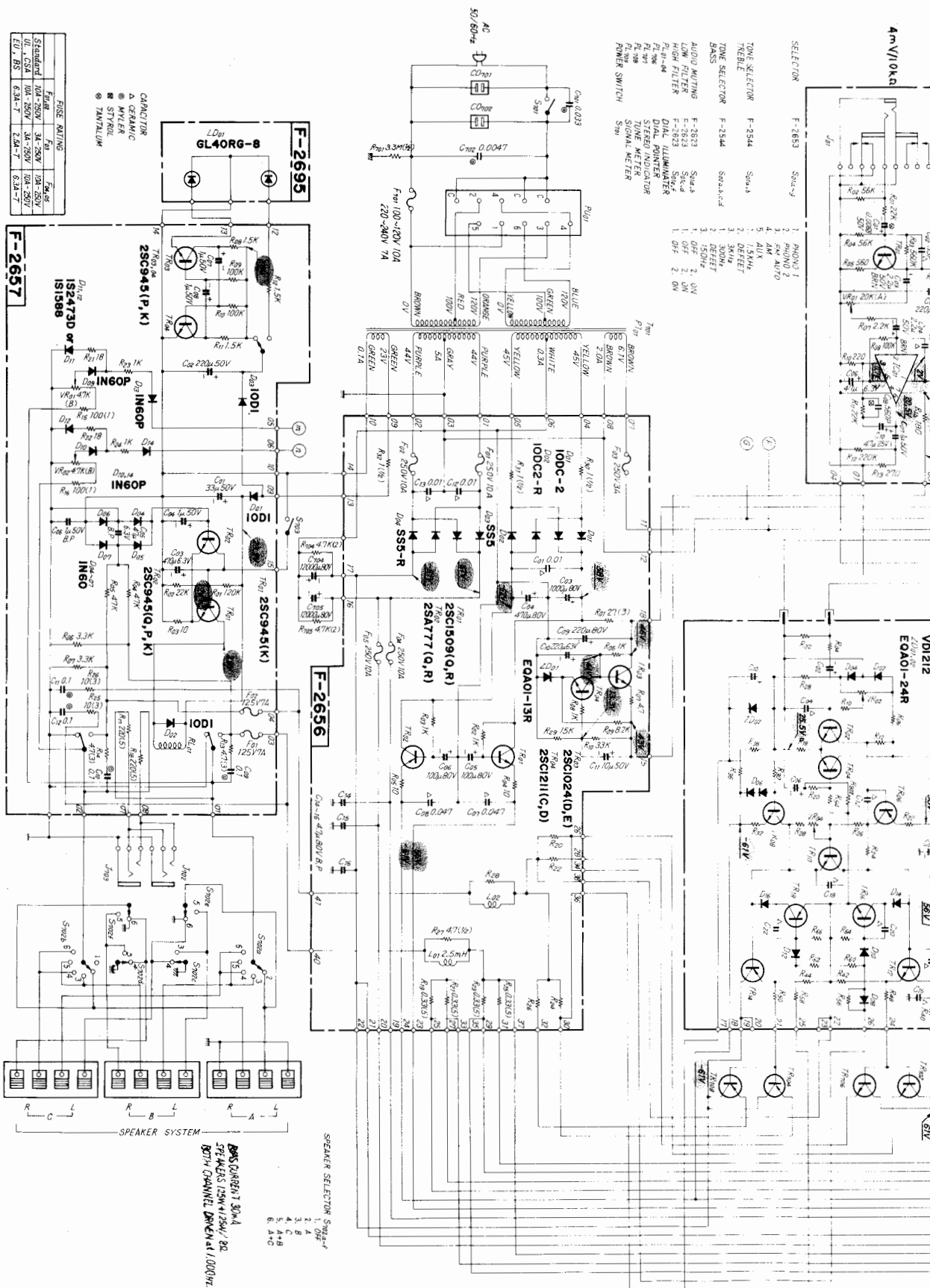


7-2. Audio Section (8080DB/890DB)

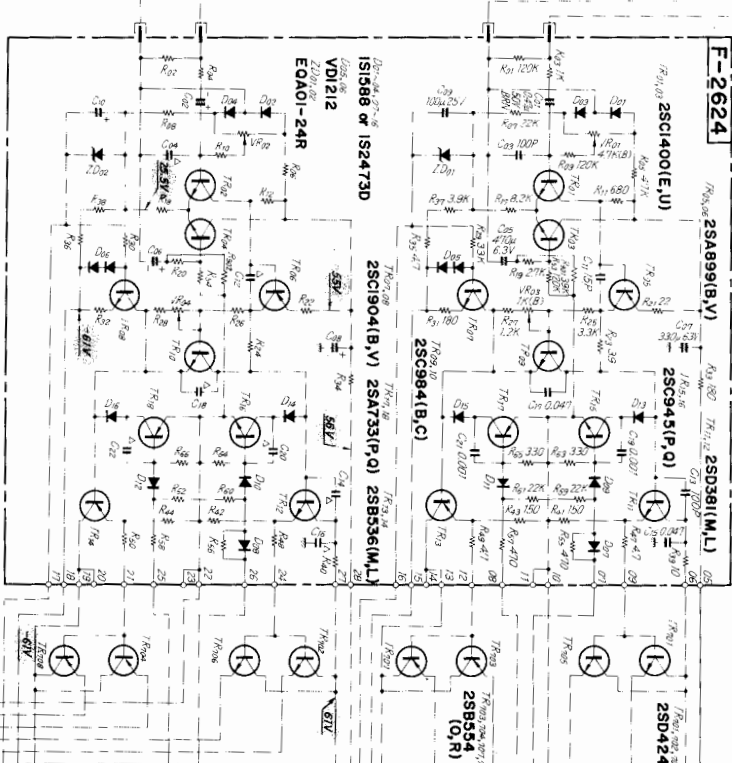
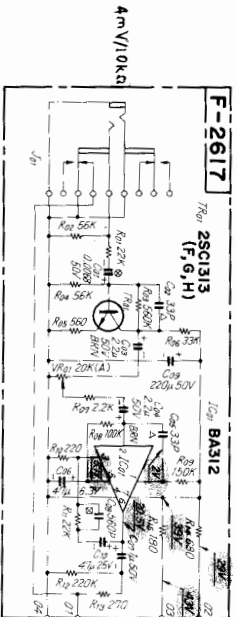
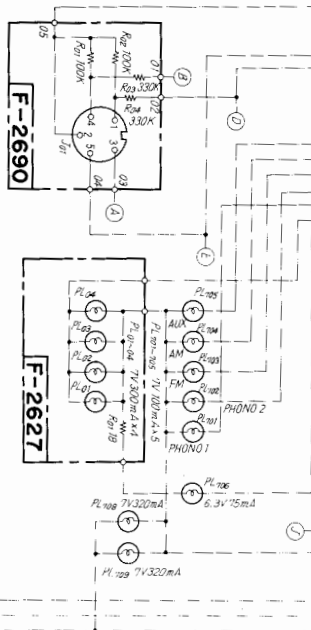
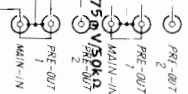
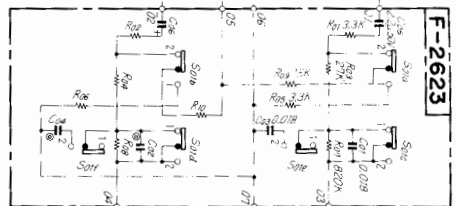
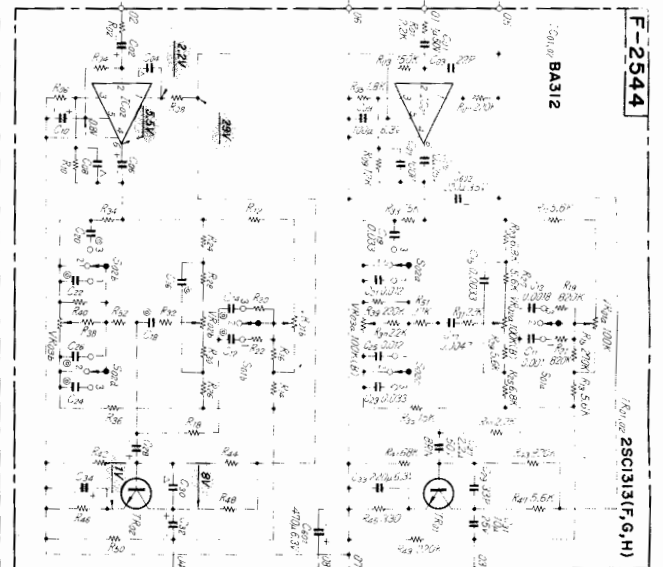
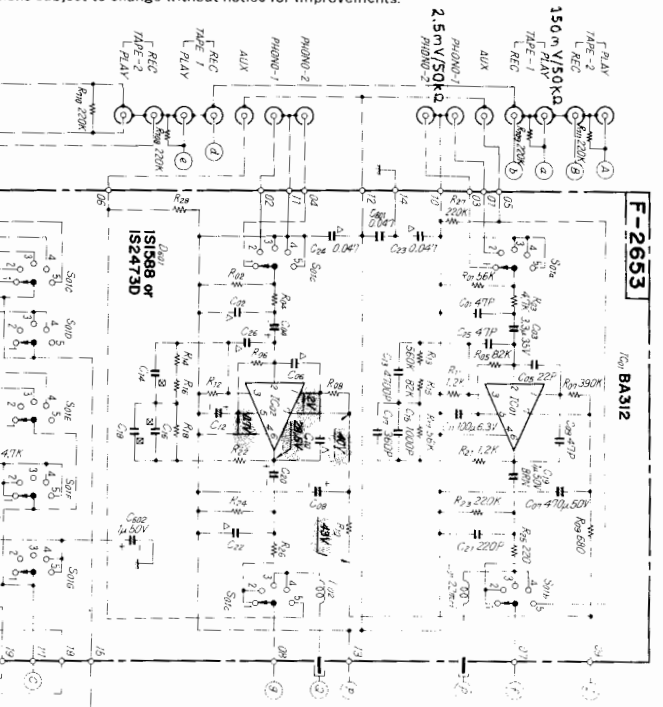


- [illegible]

7-3. Audio Section (9090DB/990DB)



- * La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specifications subject to change without notice for improvements.



- | | | |
|---------------|--------|--------------|
| SELECTOR | F-2653 | Size g |
| tone selector | F-2544 | Size a |
| tone selector | F-2544 | Size a,b,c,d |
| audio muting | F-2633 | Size a,b |
| low filter | F-2633 | Size d |
| high filter | F-2653 | Size e,f |

1. PHONO 1
2. PHONO 2
3. FM AUTO
4. AM
5. AUK
6. 1. PHONO
7. DEFEET
8. 3KHz
9. 300Hz
10. DEFEET
11. 1. PHONO
12. ON
13. OFF
14. 2. ON
15. OFF
16. 2. ON
- (6) -

8. THREADING OF DIAL CORD

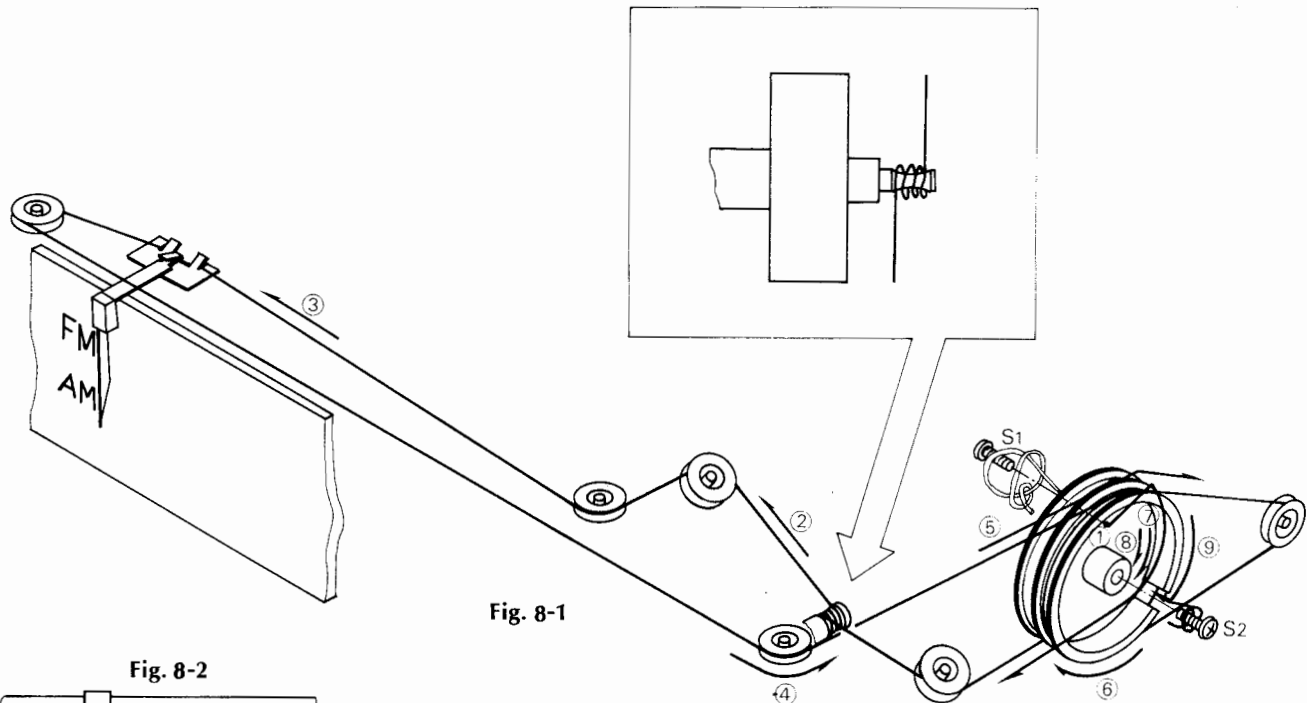
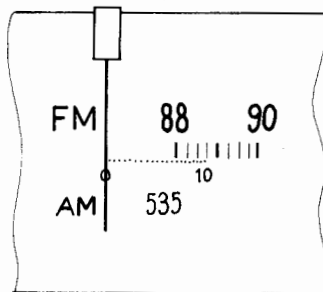


Fig. 8-1

Fig. 8-2



*If a dial cord is cut off or slips, replace it by following procedures.

As these units use 0.6mm ϕ cord, please replace it with the same type certainly.

*The length of dial cord is approximately 155cm (63 inch)

8-1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑨ as Fig. 8-1.

- 1) Close the variable capacitor completely (Max. capacitance).
- 2) Tie dial cord to the screw, S1.
- 3) Thread cord in the direction of arrow from ① to ⑨
- 4) After ⑨, tie the cord to the screw S2 of the dial pulley.

8-2. Attachment of Dial Pointer

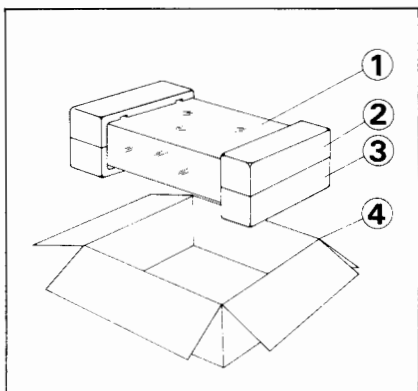
- 1) Close the variable capacitor completely.
- 2) Set the dial pointer to the 0 position on dial scale (Fig. 8-2).

*Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

Stock No.	Description
6036051	Dial Cord (0.6mm ϕ)
6146670	D44 Type Pulley

9. PACKING LIST

Parts No.	Stock No.	Description
1	9116271	Vinyl Cover
	9126070	Polyethylene Sheet
2	9027940	Styrofoam Packing (Upper)
3	9027930	Styrofoam Packing (Lower)
4	9009260	Carton Case (8080DB)
	9009270	Carton Case (9090DB)
	9009380	Carton Case (890DB)
	9009370	Carton Case (990DB)
	5996080	Curl Stopper



10. ACCESSORY PARTS LIST

Parts No.	Stock No.	Description
	9202380	Operating Instructions (8080DB)
	9202390	Operating Instructions (9090DB)
	9209740	Operating Instruction (890DB)
	9209730	Operating Instruction (890DB)
	9237520	Schematic Diagram (890DB)
	9237530	Schematic Diagram (990DB)
	9237420	Schematic Diagram (8080DB)
	9237410	Schematic Diagram (9090DB)



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