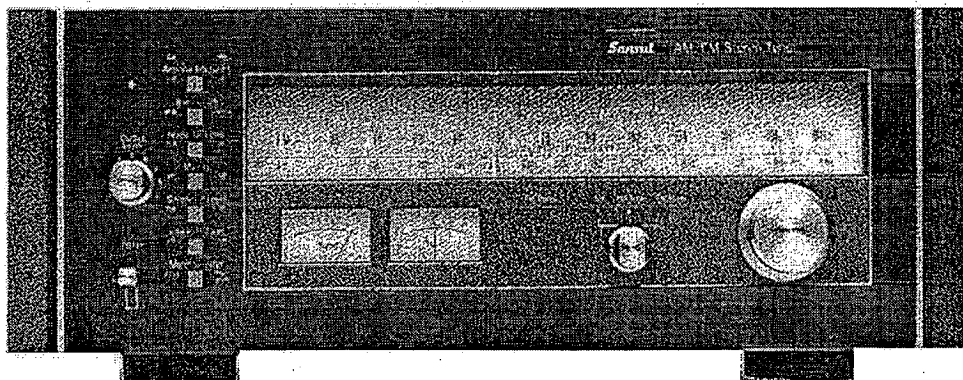


SERVICE MANUAL

AM/FM STEREO TUNER

SANSUI TU-9900



SANSUI ELECTRIC CO., LTD.



This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the TU-9900 correctly. When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & 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

FM SECTION

TUNING RANGE 88 to 108 MHz
 SENSITIVITY (IHF) 1.5 μ V
 (DIN) 0.9 μ V

QUIETING SLOPE

STEREO: WIDE 39dB (10 μ V), 53dB (50 μ V)
 NARROW 40dB (10 μ V), 54dB (50 μ V)
 MONO: WIDE 61dB (10 μ V), 73dB (50 μ V)
 NARROW 61dB (10 μ V), 73dB (50 μ V)

TOTAL HARMONIC DISTORTION

STEREO: WIDE less than 0.08% (1 kHz)
 less than 0.1% (50 Hz)
 less than 0.15% (10 kHz)
 NARROW less than 0.8% (1 kHz)
 less than 0.8% (50 Hz)
 less than 1.2% (10 kHz)
 MONO: WIDE less than 0.06% (1 kHz)
 NARROW less than 0.5% (1 kHz)

SIGNAL TO NOISE RATIO

..... better than 76dB (stereo)
 better than 80dB (mono)

SELECTIVITY

WIDE better than 55dB (400 kHz)
 better than 5dB (200 kHz)
 NARROW better than 90dB (400 kHz)
 better than 20dB (200 kHz)

CAPTURE RATIO

WIDE less than 1.0dB
 NARROW less than 3.0dB

AM SUPPRESSION

..... better than 58dB

IMAGE REJECTION

..... better than 100dB (98 MHz)

IF REJECTION

..... better than 110dB (98 MHz)

SPURIOUS REJECTION

..... better than 110dB (98 MHz)

SPURIOUS RADIATION

..... less than 34dB

STEREO SEPARATION

WIDE better than 50dB (1 kHz)
 NARROW better than 30dB (1 kHz)

FREQUENCY RESPONSE

..... 30 to 15,000 Hz ± 0.5 dB

ANTENNA INPUT IMPEDANCE

..... 75 Ω unbalanced
 300 Ω balanced

ANTENNA ATTENUATOR

..... 30dB

AM SECTION

TUNING RANGE 535 to 1,605 kHz
 SENSITIVITY (Bar antenna) 45dB/m (1,000 kHz)
 SELECTIVITY better than 70dB (1,000 kHz)
 IMAGE REJECTION better than 100dB/m
 (1,000 kHz)
 IF REJECTION better than 100dB/m
 (1,000 kHz)

OTHERS

OUTPUT LEVEL

OUTPUT 0 to 1V
 DOLBY FM 0.4V

POWER REQUIREMENTS

..... 100, 120, 220, 240V 50/60Hz
 120V (Usable 110-130V),
 60Hz (For U.S.A. & Canada
 only)

POWER CONSUMPTION

..... 20W (rated)

DIMENSIONS

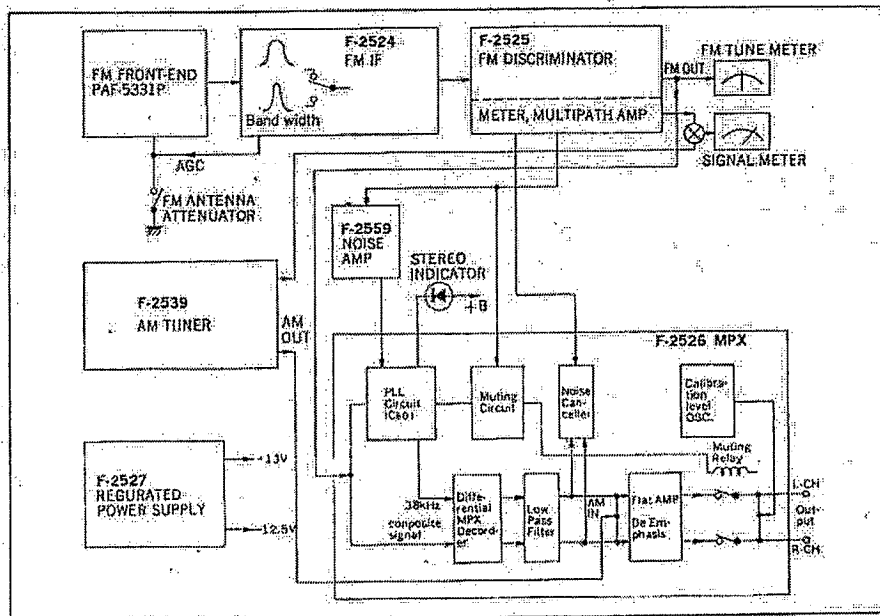
..... 460mm (18- $\frac{1}{8}$ " W)
 160mm (6- $\frac{3}{8}$ " H)
 310mm (12- $\frac{1}{4}$ " D)

WEIGHT

..... 9.6 kg (21.2 lbs) net
 11.3 kg (24.9 lbs) packed

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

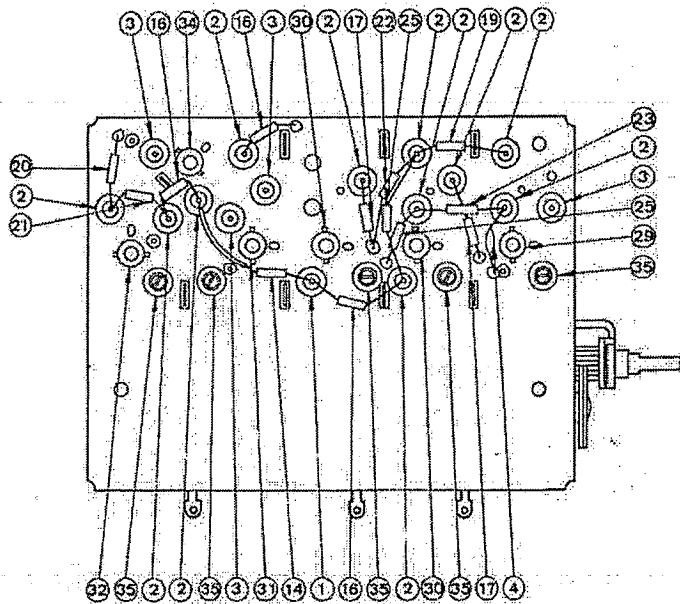
2. BLOCK DIAGRAM



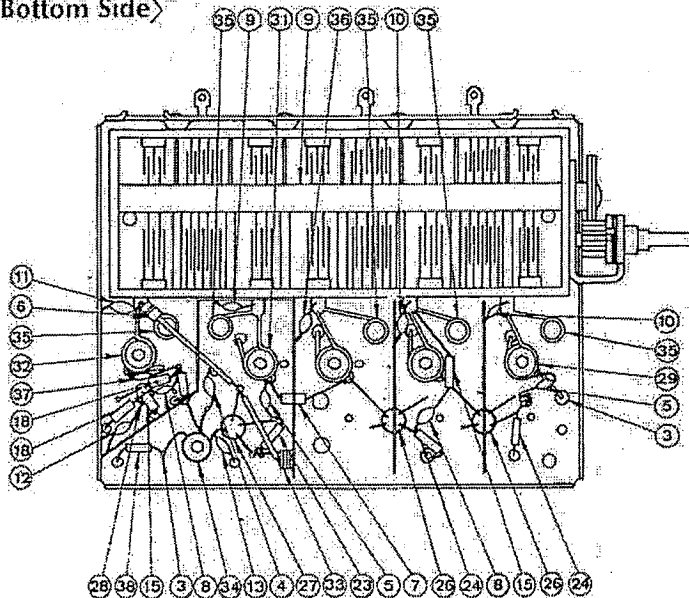
3. PARTS LOCATION AND PARTS LIST

3-1. PA5331P FM FRONT-END PACK (Stock No. 7510701)

<Top Side>



<Bottom Side>



—Abbreviations—

- | | |
|---------------------------------|---|
| C.R. : Carbon Resistor | BP.E.C. : Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | C.C. : Ceramic capacitor |
| Ce.R. : Cement Resistor | Mi.C. : Mica Capacitor |
| M.R. : Metallized Film Resistor | O.C. : Oil Capacitor |
| M.C. : Mylar Capacitor | P.C. : Polystyrene Capacitor |
| E.C. : Electrolytic Capacitor | T.C. : Tantalum Capacitor |

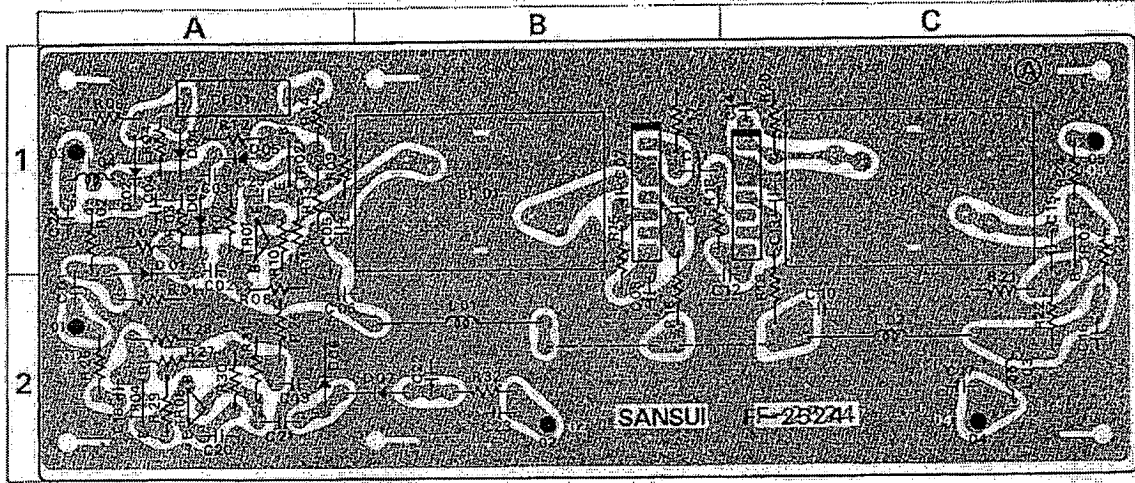
Parts List <Top, Bottom Side>

Position	Parts No.	Stock No.	Description
⊕	TR01	0305802	2SC1047 C Transistor
⊕	FT01	0370131	3SK41
⊕	FT02	0370131	3SK41 FET
⊕	FT03	0370160	3SK37
⊕	C01	0649272	12pF
⊕	C02	0657102	1000pF
⊕	C03	0659519	1000pF
⊕	C04	0659510	1000pF
⊕	C05	0659510	1000pF
⊕	C06	0657223	22000pF
⊕	C07	0659510	1000pF 50V C.C.
⊕	C08	0669344	8.2pF
⊕	C09	0649272	12pF
⊕	C10	0659510	1000pF
⊕	C11	0659510	1000pF
⊕	C12	0659510	1000pF
⊕	C13	0659511	2000pF
⊕	C14	0679020	3.3pF 500V G.C.
⊕	C15	0669275	15pF
⊕	C16	0657102	1000pF
⊕	C17	0669275	15pF
⊕	C18	0659510	1000pF
⊕	C19	0669224	33pF
⊕	C20	0657223	22000pF
⊕	C21	0659510	1000pF 50V C.C.
⊕	C22	0669271	22pF
⊕	C23	0669344	8.2pF
⊕	C24	0659510	1000pF
⊕	C25	0659510	1000pF
⊕	C26	0649225	39pF
⊕	C27	0669289	20pF
⊕	C28	0679008	1.0pF 500V G.C.
⊕	C29	0659510	1000pF 50V C.C.
⊕	C30	0512100	10pF 10V E.C.
⊕	R01	0110124	120Ω
⊕	R02	0110104	100Ω
⊕	R03	0110195	1MΩ
⊕	R04	0110222	2.2kΩ
⊕	R05	0110105	0.4Ω
⊕	R06	0110333	33Ω
⊕	R07	0110220	22Ω
⊕	R08	0110124	120Ω
⊕	R09	0110121	120Ω
⊕	R10	0110270	27Ω
⊕	R11	0110104	100Ω 1/4W S.R.
⊕	R12	0110121	120Ω
⊕	R13	0110391	390Ω
⊕	R14	0110272	2.7kΩ
⊕	R15	0113472	4.7kΩ
⊕	R16	0113822	8.2kΩ
⊕	R17	0110220	22Ω
⊕	R18	0110272	2.7kΩ
⊕	R19	0110121	120Ω
⊕	R20	0110470	47Ω
⊕	L01	4200340	Antenna Coil
⊕	L02	4210070	PF Coil
⊕	L03	4210070	
⊕	L04	4210210	
⊕	L05	4220170	
⊕	L06	4290070	Choke Coil
⊕	L07	4235740	IF Coil
⊕	YCo1	1220240	AM-FM Variable Capacitor
⊕	TC01	1230080	Trimmer
⊕	TC02	1230080	
⊕	TC03	1230080	
⊕	TC04	1230080	
⊕	TC05	1230080	
⊕		0659507	1.5pF 50V C.C.



3-2. F-2524 FM IF Circuit Board (Stock No. 7521121 Complete Circuit Board F-2524)

Conductor Side

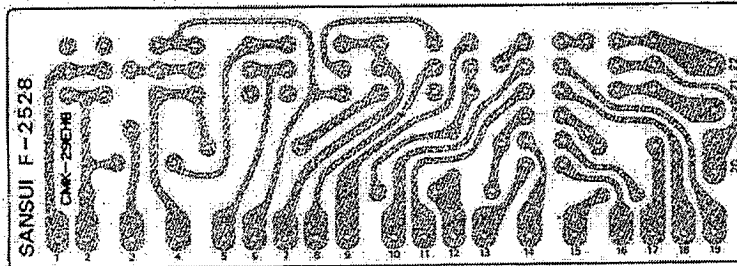


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR01	0306340-1	2SC1474 (M.U.)	1A	CR	0647222	22000pf	1B	RI	0113182	1.0kΩ	1A	
TR02	0306340-1	2SC1474 (M.U.)	1A	CR	0647223	22000pf	1C	RI	0113470	47Ω	1A	
TR03	0306340-1	2SC1474 (M.U.)	1A	CR	0647103	10000pf	1B	RI	0113261	880Ω	1B	
TR04	0306340-1	2SC1474 (M.U.)	1A	CR	0647223	22000pf	2B, 2C	RI	0113220	22Ω	2B	
TR05	0306340-2	2SC1474 (M.U.)	1A	CR	0647223	22000pf	1C	RI	0113102	1.0kΩ	1B	
TR06	0306340-2	2SC1474 (M.U.)	1A	CR	0647223	22000pf	1C	RI	0113172	1.2kΩ	1B	
IC01	0360120	7C555H	1C	CR	0647103	10000pf	1C	RI	0113220	22Ω	1,2C	
IC02	0360120	7C555H	1C	CR	0647223	22000pf	2C	RI	0113102	1.0kΩ	1C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113129	1.2kΩ	2C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113222	2.2kΩ	1,2C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113459	680Ω	1C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113101	100Ω	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113472	4.7kΩ	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113392	3.9kΩ	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113182	1.0kΩ	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113222	2.2kΩ	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113681	680Ω	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113102	1.0kΩ	2A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113154	1.5kΩ	2B	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	0113223	2.2kΩ	2B	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	4250011	Choke Coil	2B	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	4250011	Choke Coil	2C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	4900200	Inductor	2C	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	4900200	Inductor	1A	
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	CF01	9910370	Ceramic Filter	1A
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	BF01	4235960	1/2 Coil	1B
DI	0311180	1S1588	1A	CR	0647223	22000pf	2A	RI	BF02	4235960	1/2 Coil	1C

3-3. F-2528 Switch Circuit Board (Stock No. 7592701 Complete Circuit Board F-2528)

Conductor Side

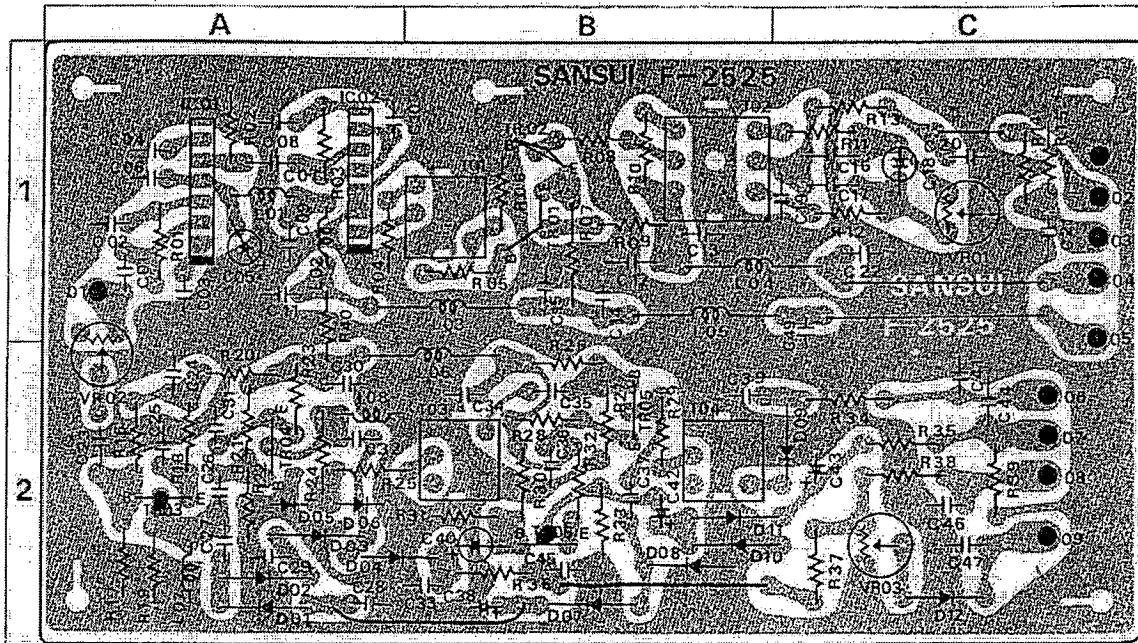


Parts List

Parts No.	Stock No.	Description
RI	0113182	1.0kΩ 1/4W C.K.
RI	0113101	100Ω
RI	0113102	1.0kΩ
RI	0113183	1.8kΩ 1/4W S.R.
RI	0113470	47Ω
RI	0113681	680Ω
SO	1131130	Push Switch

3-4. F-2525 FM Discriminator Circuit Board (Stock No. 7521131 Complete Circuit Board F-2525)

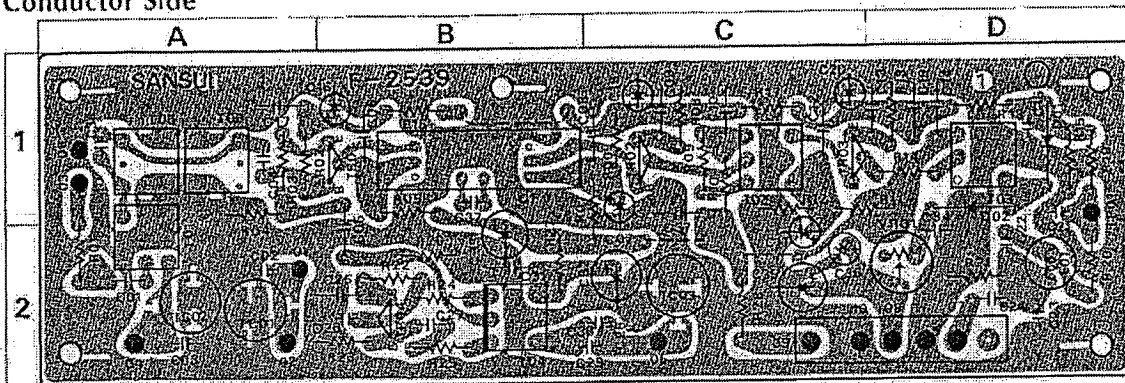
Conductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR1	0304309	2SC1360	1.B	CR	052100	100pF	1C	R14	0113223	22kΩ	1C	
TR2	0304309	2SC1360	1.B	CR	0660470	47pF	1C	R16	0113472	4.7kΩ	2A	
TR3	0304340,1	2SC1474 (M, U)	2A	CR	0660101	100pF	1C	R19	0113153	15kΩ	2A	
TR4	0304340,1	2SC1474 (M, U)	2A	CR	0657223	22000pF	1C	R17	0113681	680Ω	2A	
TR5	0304340,1	2SC1474 (M, U)	2.B	CR	0457223	22000pF	30V C.C.	1C	R18	0113222	2.2kΩ	2A
TR6	0305110	2SC4181G (B)	2.B	CR	0457103	10000pF	2A	R20	0113220	22Ω	2A	
TR7	0305131-3	2SC2448 (C, P, R)	2.B	CR	0457223	22000pF	2A	R01	0113472	4.7kΩ	2A	
TR8	0306121-3	2SC1364 (6, 7, B)	2.B	CR	0457223	22000pF	2A	R29	0113153	15kΩ	2A	
IC1	0350770	μPC-5779	1C	CR	0670101	100pF	30V F.C.	2A	R27	0113102	1.0kΩ	2A
IC2	0349120	μPC-555H	1C	CR	0669224	33pF	2A	R34	0113681	680Ω	2A	
DR	0310330,1	1N40	2A	CR	0457223	22000pF	2A	R22	0113122	3.3kΩ	2A, B	
DR	0310330,1	1N40	2A	CR	0660221	220pF	2A	R16	0113472	4.7kΩ	2.B	
DR	0310330,1	1N40	2A	CR	0457223	22000pF	30V C.C.	2A	R27	0113153	15kΩ	2.B
DR	0310330,1	1N40	2A	CR	0657223	22000pF	30V C.C.	2A	R24	0113681	680Ω	2.B
DR	0311160	1S24120	2A	CR	0660221	220pF	2.B	R28	0113471	4.7kΩ	2.B	
DR	0311160	1S1588	2A	CR	0657223	22000pF	2.B	R25	0113102	1.0kΩ	2.B	
DR	0311160	1S24230	2A	CR	0320101	100pF	30V F.C.	2.B	R26	0113471	4.7kΩ	2.B
DR	0311160	1S1588	2A	CR	0657223	22000pF	2.C	R23	0113332	3.3kΩ	2.B	
DR	0310330,1	1N40	2.B	CR	0669224	33pF	30V C.C.	2.B	R21	0113222	2.2kΩ	2C
DR	0310330,1	1N40	2.B	CR	0312100	10pF	10V E.C.	2.B	R22	0113222	2.2kΩ	2C
DR	0310330,1	1N40	2.C	CR	0457223	22000pF	30V C.C.	2.B	R24	0113682	6.8kΩ	2C
DR	0310331	1N40	2.B, C	CR	0315109	10pF	30V E.C.	2.B	R29	0118222	2.2kΩ	2C
DR	0310331	1N40	2.B, C	CR	0457223	22000pF	30V C.C.	2C	R20	0113222	2.2kΩ	2C
DR	0311160	1S24230	2.C	CR	0414339	3.3pF	35V E.C.	2.B	R20	0113222	2.2kΩ	1, 2A
DR	0311160	1S1588	2.C	CR	0314339	3.3pF	35V E.C.	2.B	R20	0113220	22Ω	
CR	0657223	22000pF	1A	CR	0457223	22000pF	2C	LD	4900200	Inductor	1A	
CR	0457223	22000pF	1A	CR	0457223	22000pF	2.B	LD	4900200	Inductor	1A	
CR	0657223	22000pF	1A	CR	0457223	22000pF	30V C.C.	2C	LD	4900011	Inductor	1A, B
CR	0457223	22000pF	1A	CR	0657223	22000pF	2C	LD	4900011	Choke Coil	1.B, C	
CR	0512100	10pF	1A	CR	0657223	22000pF	1, 2C	LD	4900011	Choke Coil	2A, B	
CR	0657223	22000pF	1A	CR	0113102	1.0kΩ	1A	LD	4900011	Inductor	2A	
CR	0657103	10000pF	1A	CR	0113102	1.0kΩ	1A	LD	1900200	Inductor	2A	
CR	0457223	22000pF	1A	CR	0113102	1.0kΩ	1A	LD	4900200	Inductor	2A, B	
CR	0657223	22000pF	1A	CR	0113472	4.7kΩ	1A	LD				
CR	0457223	22000pF	1A	CR	0113101	100Ω	1.B	LD	4255800		1.B	
CR	0457223	22000pF	1A	CR	0113681	680Ω	1.B	LD	4233950		1.B	
CR	0437223	22000pF	1.B	CR	0201371	370Ω	1.W C.C.	1.B	LD	4235940	1M Ω Cell 10.7MHz	1.B
CR	0457223	22000pF	1.B	CR	0113330	33Ω	1.B	LD	4255940		2.B	
CR	0457223	22000pF	1.B	CR	0113330	33Ω	1.B	LD				
CR	0457223	22000pF	1.B	CR	0113221	820Ω	1.B	LD				
CR	0457223	22000pF	1.B	CR	0113102	1.0kΩ	1.C	LD				
CR	0660221	220pF	1.C	CR	0113102	1.0kΩ	1.C	LD				
CR	0660221	220pF	1.C	CR	0113101	100Ω	1.C	LD				
CR	0660221	220pF	1.C	CR				VR1	1035130	10kΩ (B)	1C	
								VR2	1035130	10kΩ (B)	1, 2A	
								VR3	1035170	10kΩ (B)	2C	
								VR4	2410590	4P Pin Assy Type D		

3-5. F-2539 AM IF Circuit Board (Stock No. 7530281 Complete Circuit Board F-2539)
Conductor Side

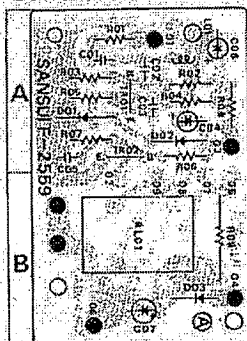


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0306241, 2	25C1475 (L, K)	1B	C24	0401277	0.022pF	50V M.C.	R18	0113143	10kΩ	1D
TR02	0306241, 2	25C1475 (L, K)	1C	C25	0657473	47000pF	50V C.C.	R19	0113103	10kΩ	1D
TR03	0306101, 2	25C1364 (L, T)	2B	C26	0460100	10pF	50V C.C.	R20	0113103	10kΩ	2D
TR04	0306241, 2	25C1475 (L, K)	2B	C27	0601107	0.01pF	50V M.C.	R21	0113103	10kΩ	2D
				C28	0649281	22pF	50V C.C.	R22	0113354	200kΩ	2B
				C29	0649280	20pF	50V C.C.	R23	0113102	10kΩ	2A, B
Di01	0510330, 1	1N40	1D	C30	0401474	0.047pF	50V M.C.	R24	0113361	500Ω	2B
Di02	0510330, 1	1N40	1D	C31	0647473	47000pF	50V C.C.	R25	0113109	10kΩ	2B
C01	0640221	220pF	2A	C32	0512470	47pF	10V E.C.	R26	0113101	10kΩ	2B
C02	0649270	10pF	2A	C33	0512100	10pF	2B	R27	0113383	4.3kΩ	2C
C03	0649270	10pF	2A	C34	0401474	0.047pF	50V M.C.	R28	0113470	47kΩ	2C
C04	0657223	22000pF	1A	C35	0510101	100pF	1.5V E.C.	R29	0103122	170kΩ	2C
C05	0401477	0.047pF	50V M.C.	C36	0647473	47000pF	50V C.C.				
C06	0657473	47000pF	50V C.C.	R10	0113101	100Ω	1.2C	L01	4700220	Inductor 100μH	2D
C07	0515109	1pF	30V E.C.	R11	0113101	100Ω	1B	L02	4200540	Box Antenna 220μH	
C08	0657473	47000pF	1C	R12	0113103	10kΩ	1A	T01	4210100	IF Coil	1, 2A
C09	0657473	47000pF	50V C.C.	R13	0113220	22kΩ	2A	T02	4220610	IF Coil 455kHz	1C
C10	0657473	47000pF	50V C.C.	R14	0113201	10kΩ	1B	T03	4230500	IF Coil 455kHz	1D
C11	0515109	1pF	50V E.C.	R15	0113332	3.3kΩ	1C	T04	4220480	OSC Coil 115μH	2B
C12	0657473	47000pF	50V C.C.	R16	0113104	100kΩ	1, 2C	CF01	0910310	Ceramic Filter 455kHz	1B
C13	0601127	0.012pF	50V M.C.	R17	0113102	10kΩ	1C				
C14	0515109	1pF	50V E.C.	R18	0113333	33kΩ	1, 2C				
C15	0657473	47000pF	50V C.C.	R19	0113221	22kΩ	1C	VR01	1035170	47kΩ 5 Voltage	2G
C16	0510477	4.7pF	25V E.C.	R20	0113393	39kΩ	1C				
C17	0657473	47000pF	50V C.C.	R21	0113151	150Ω	1D	TC01	1230540	Trimmer Capacitor	2A
C18	0515109	1pF	50V E.C.	R22	0113231	33kΩ	1D	TC02	1230540	Trimmer Capacitor	2A
C19	0657473	47000pF	50V C.C.	R23	0113103	10kΩ	1D	TC03	1230540	Trimmer Capacitor	2C
C20	0515109	1pF	50V E.C.	R24	0113272	2.2kΩ	1B				
C21	0601127	0.012pF	50V M.C.	R25	0113222	2.2kΩ	1C				
C22	0601107	0.01pF	50V M.C.								
C23	0401274	0.022pF	2D								

3-6. F-2559 MPX Noise AMP. Circuit Board (Stock No. 7540781 Complete Circuit Board F-2559)

Conductor Side

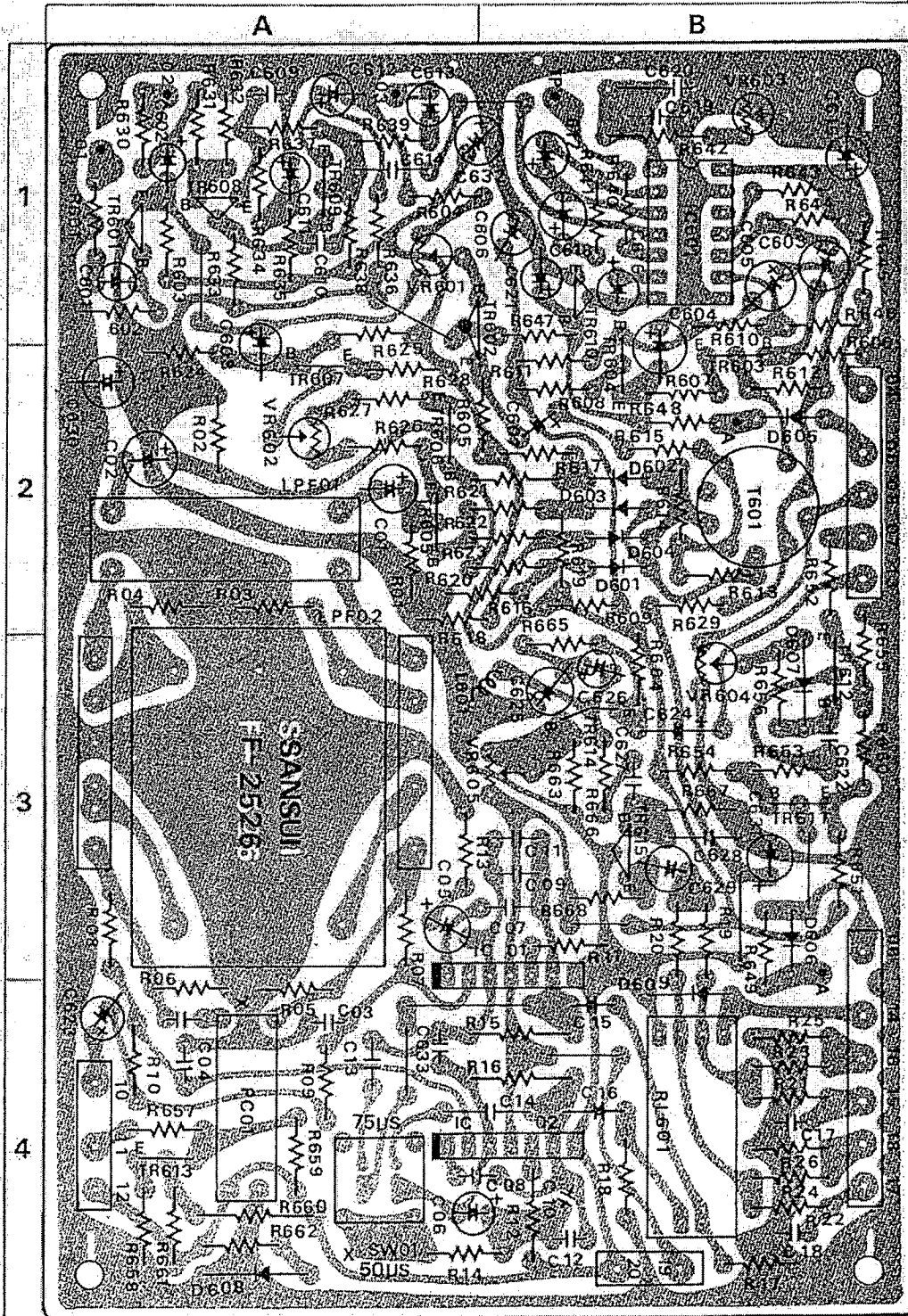


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305310	25C480 G (H)	A	R01	0113103	10kΩ	A
	0305251-3	25C945 (G, P, Q)	A	R02	0113104	100kΩ	A
	0306101-3	25C1364 (L, T, B)	A	R03	0113153	15kΩ	A
TR02	0306510, 1	25C723 (F, G)	A	R04	0113222	2.2kΩ	A
				R05	0113471	47kΩ	A
				R06	0113103	10kΩ	A
Di01	0210400	1N34A	A	R07	0113275	27kΩ	A
	0310400	50kΩ (P)	A	R08	0113470	47kΩ	A
Di02	0310400	1N34A	A	R09	0103151	150Ω 1/2W C.F.	B
Di03	0310810	30kΩ (P)	A				
Di04	0310800	150 ΩS	B				
C01	0640221	22pF	A	L01	4920090	Inductor	A
C02	0640221	220pF	A		2260010	Test Pin	
C03	0647102	1000pF	A		2416570	5P Pin Assy Type D	
C04	0519105	2.2pF	50V E.C.				
C05	0657102	1000pF	50V C.C.				
C06	0515109	1pF	50V E.C.				
C07	0511470	47pF	10V E.C.				

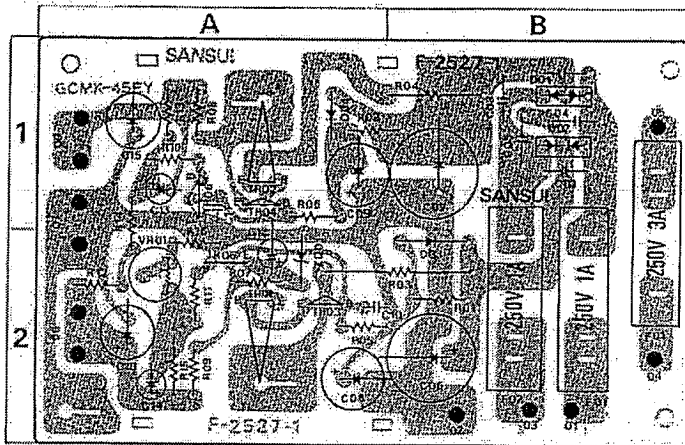
3-7. F-2526 FM MPX Circuit Board (Stock No. 7540771 Complete Circuit Board F-2526)

Conductor Side





3-10. F-2527 Power Supply Circuit Board (Stock No. 7501101 Complete Circuit Board F-2508) Conductor Side



Part No.	Stock No.	Description	Position
ZDi1	[031853] [031859]	RS-4A R18.2E (S)	Zener Diode 2A
Co1	0457473	4700µF 50V C.C.	1B
Co2	0114471	470µF	9A, B
Co3	0514471	470µF 35V E.C.	1B
Co4	0112221	220µF	2A, B
Co5	0413221	220µF 25V E.C.	1A
Co6	0457103	1000µF	2A, B
Co7	0457103	1000µF 30V C.C.	1A
Co8	0511470	47µF	1, 2A
Co9	0412100	10µF	1A
Co10	0512100	10µF	1A
Co11	0512300	33µF	1A
Co12	0412221	220µF	2A
Di1	0113822	8.2V (1)	2B
Di2	0113822	8.2V (1)	1A, B
Di3	0104109	10V	2A, B
Di4	0104479	4.7V (1)	1B
Di5	0113821	8.2V (1)	2A, B
Di6	0113822	8.2V (1)	1A
Di7	0113222	2.2V (1)	2A
Di8	0113229	2.2V (1)	1A
Di9	0113229	2.2V (1)	2A
Di10	0113471	4.7V (1)	1A
Di11	0113471	4.7V (1)	2A
Di12	0113121	12V (1)	2A
Di13	0113121	12V (1)	1A
Di14	0113152	15V (1)	1, 2A
Di15	0113562	5.6V (1)	2A
Di16	0113472	4.7V (1)	2A
VR1	1035110	4.7A (1) (S)	2A
Fo1, Fo2	0431222	AC Fuse 1A 250V	1, 2B
Fo3	0431260	AC Fuse 3A 250V	1, 2B
	0310030	F Type Pin Holder	
	0410650	2P Pin Assy, Type D	

Parts List

Part No.	Stock No.	Description	Position	Part No.	Stock No.	Description	Position
TR1	0306411-3	2SC314 (D, E, F)	2A	TR1	[0300410, 1] [0300450]	2SA728 (F, G) 2SA449 (GR)	Transistor 1A
TR2	0306411-3	2SC314 (D, E, F)	1A	Di1	0310530	151850	1B
TR3	0306493-1	2SCV45 (G, F)	2A	Di2	0311420	CG8P-2-N	Diode 1B
TR4	0306431-2	2SC1364 (A, F)	2A	Di3	0310540	151850R	1B
TR5	0306220-1	2SA543 (D, Y)	1A	Di4, Di5	0311430	CG8P-2-A	2B, 1A
TR6	0306051-0	2SA733 (F, G)	1A				
TR7	0306210	2SC458 (L, G) (S)	2A				
TR8	0306091-2	2SC1312X (G, H)	2A				

3-11. Figures

Semiconductor

Semiconductors	Complete Circuit Board	Semiconductors	Complete Circuit Board	Semiconductors	Complete Circuit Board
25A233 25C945 25C1047 25C1360 25C1364 25C1674 25C1675	F-2526 F-2527 F-2529 FM Pack F-2529 F-2524	25A493 25A562	F-2527 F-2526	IN34A IN67	F-2524 F-2525 F-2526 F-2529
25A726 25C1372	F-2527 F-2526	25C458	F-2526	10005	F-2526 F-2527 F-2529
25D930	F-2524	7A7136P	F-2526	5046	F-2529
35K39 35K41	FM Pack	PPC558R PPC577H	F-2529	1S1584 1S2473D	F-2524 F-2525 F-2526
25D315	F-2527	HA1156W	F-2526	RD6A RD6E1	F-2527
				1S1850 1S18901	F-2527

Connector & Pin Assy

Connector	Stock No.
Type A (3~10 pins)	2420250
Type B (2~6 pins)	2420220
	2420230
	2420210
	2420240

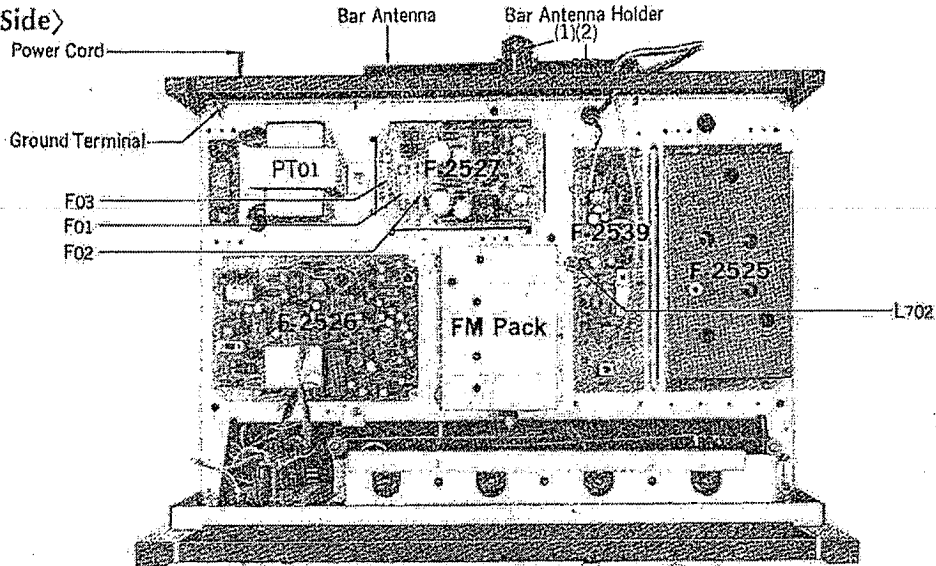
NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Pin Assy

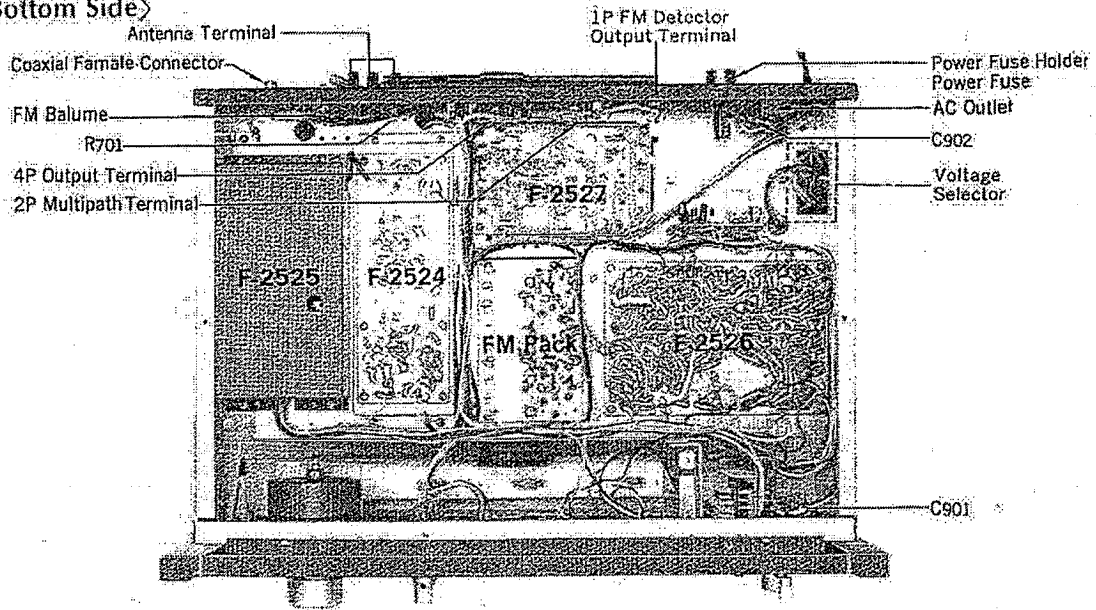
Type A (3~10 pins)	Type B (3~10 pins)	Type C (3~10 pins)
Type D (2~5 pins)	Type E (2~6 pins)	Type F (2~6 pins)

3-12. Other Parts (Top & Bottom Side)

<Top Side>



<Bottom Side>

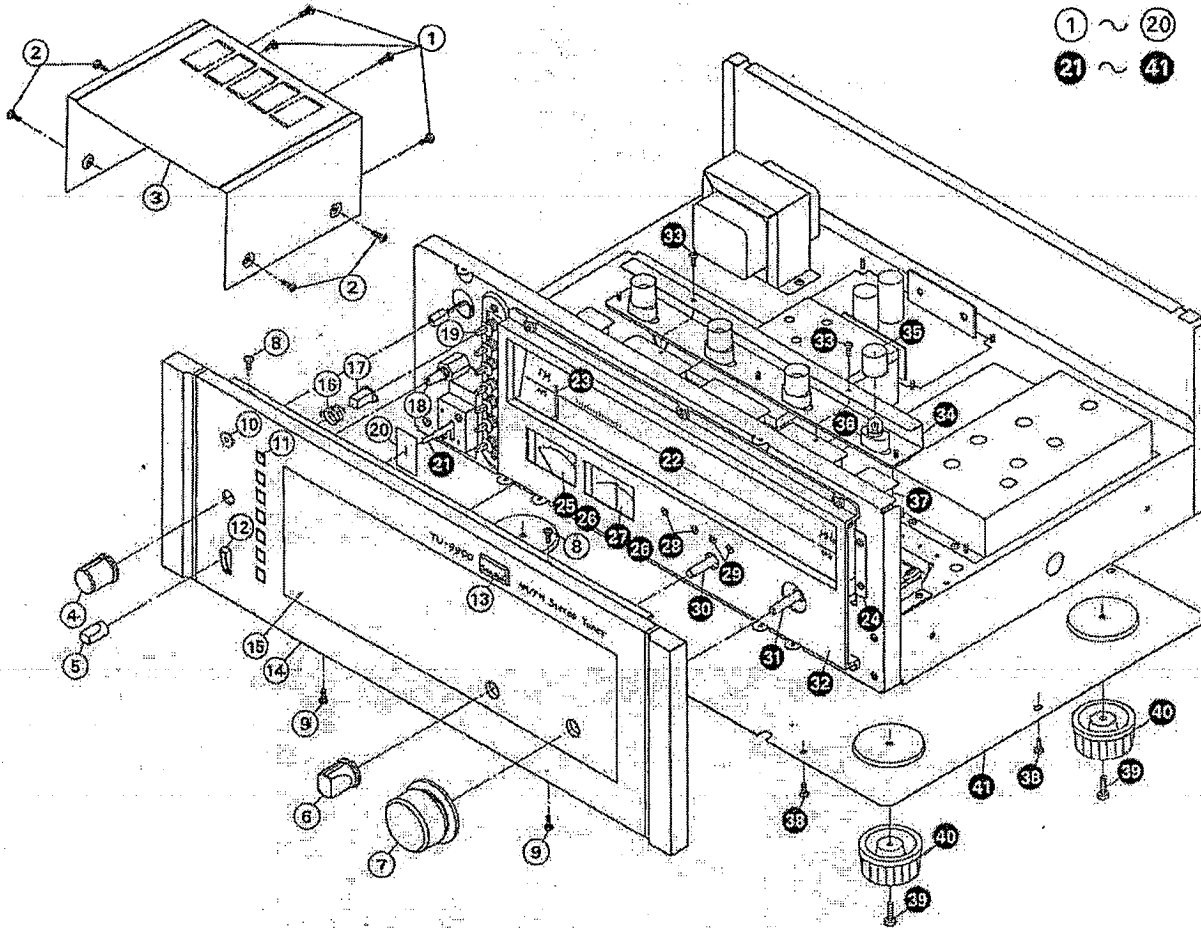


Parts List

Parts No.	Stock No.	Description
C901	2450080	AC Outlet
L702	4290011	Choke Coil
C902	0659801	8.01 μ F C.C.
C902	0659802	8.017 μ F C.C.
R701		1.2(1) CR
	2730251	Ground Terminal
	3820240	Power Cord
	4280540	Bar Antenna
	5264420	Bar Antenna Holder (1)
	5286480	Bar Antenna Holder (2)
PT01	1002300	Power Transformer

Parts No.	Stock No.	Description
	2410081	Voltage Selector Plug
	2410091	Voltage Selector Socket
F01	0431222	1A 250V AC Fuse
F02	0431223	1A 250V AC Fuse
F03	0481265	3A 250V AC Fuse
F04	2440830	Coaxial Female Connector I-P-3C
	4290031	75(1); 302(1) HD Balun
	2210199	Antenna Terminal
	2200319	4P Output Terminal
	2200320	2P Multipath Terminal
	2200298	1P Detector Out Terminal
	2300089	Fuse Holder, Power
F04	0431212	Power Fuse 0.5A 250V

3-13. Other Parts (Front Side)



Parts List

Parts No.	Stock No.	Description
1	5109222	Binding Head Tapping Screw, M3×8
2	5101161	Binding Head Screw, M4×6
3	5006490	Bonnet
4	5318251	B-6 Type Knob, Output level volume
5	5326510	E-2 Type Knob, Power Switch
6	5318260	C-6 Type Knob, Selector Switch
7	5318350	O-6 Type Knob, Tuning
8	5109122	Binding Head Tapping Screw, M3×8
9	5109222	Binding Head Tapping Screw, M3×8
10	7726410	Stereo Indicator Ass'y
11	5286720	Knob Guide
12	5286730	Lever Guide
13	5336580	Sansui Mark
14	7007130	Front Panel Ass'y
15	5047850	Smoked Plate
16	6906480	Spring
17	5326530	Push Knob
18	1011080.1	Output Level Volume, 10kΩ BYZ
19	1131130	Push Knob
20	5047460	Masking, Lever Switch
21	1170330	Lever Switch, Power

Parts No.	Stock No.	Description
22	5407910	Dial Scale
23	5416410	Dial Pointer
24	5026290	Illumination Box
25	4300900	Signal Meter
26	7726040	Meter Lamp Unit (PL05~08)
27	4300890	Tune Meter
28	0319060	L.E.D. 01, 04 (Red)
29	0319050	L.E.D. 02, 03 (Green)
30	1101690.1	Selector Switch, F-1-4-3
31	7036460	Tuning Unit
32	5304140	Dial Scale Holder
33	5109122	Binding Head Tapping Screw, M3×8
34	5226140	Lamp Holder
35	5037520	Blue Filter
36	7726130	Lamp Ass'y, 8V 0.3A (PL01~04)
37	5047830	Illumination Plate
38	5109222	Binding Head Tapping Screw, M3×8
39	5101063	Binding Head Screw, M4×10
40	5517050	Leg
41	5058500	Bottom Plate

4. ALIGNMENTS AND ADJUSTMENTS

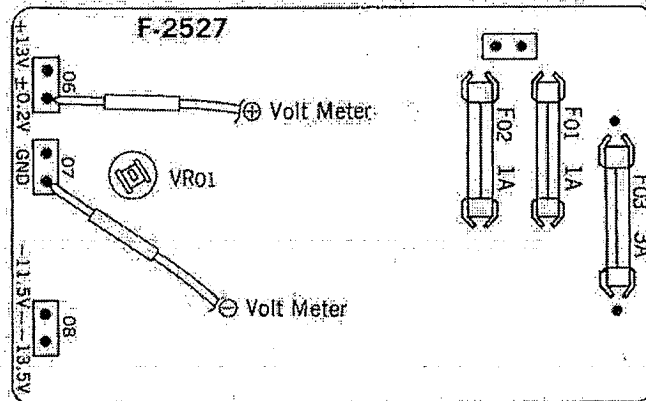
Abbreviations

Equipment		Others	
AM FM Generator Oscilloscope	Genescope	Clockwise	CW.
AM Standard Signal Generator	AM SSG	Counterclockwise	CCW.
FM Standard Signal Generator	FM SSG	Antenna	ANT.
FM Stereo Generator	Stereo SG	Modulation	MOD.
Oscilloscope	Scope		
Audio Oscillator	Audio Osc.		
Distortion Meter	Dist. Meter.		

4-1. Regulated Power Supply Voltage Circuit Board Adjustment

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
1.	Voltage Adj.	DC Volt Meter	06, 07 Terminal of F-2527	VR01 F-2527	+13V ±0.2V

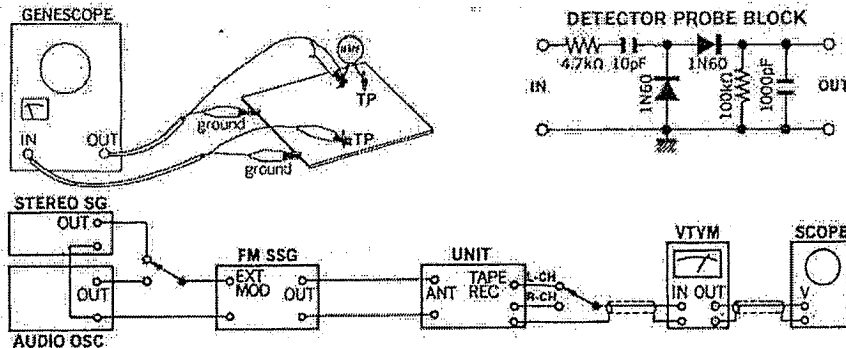
Fig. 4-1


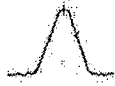




4-2. FM IF Adjustment & Tracking

(See Fig. 4-2, 4-3 on page 13 & Fig. 4-4, 4-5, 4-6 on page 14)

- Note:
1. Selector FM AUTO
 2. Output level of genescope After attenuator
 3. Sweepwidth 1.5~2cm/150kHz
 4. Frequency band 9.5~11.5MHz
 5. Connection Connect the output of genescope to TP. 1 through 100pF ceramic capacitor;
 6. FM MUTING switch OFF.

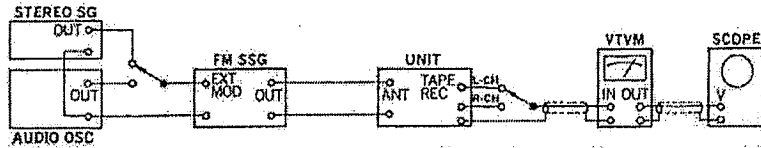


STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil Band Width Switchwide	Output 90dB Genescope	TP Pin of FM Pack	Terminal 05 of F-2524 Use Detector probe		Unnecessary	Confirm this IF wave 
	Band-width Switch ..Narrow	Output 90dB Genescope	Same as above	Same as above		Same as above	Same as above 
2.	Meter Coil	Output 70dB Genescope	Same as above	Terminal 0 of F-2559 (In this case, make short between terminal 01 of F-2559 and chassis)	T03 T04 F-2525	Max. Output	
3.	Discriminator Coil	Output 70dB Genescope	Same as above	Terminal 01 of F-2526	T02 F-2525	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	L05 FM Pack	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC05 FM Pack	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, L04 FM Pack	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01, TC02 TC03, TC04 FM Pack	Same as above	
6.	Signal Meter Adj.	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR03 F-2525	4:3 on meter	
7.	Gain Adj.	98MHz ANT Input 40dB FM SSG Pilot 19kHz (10% MOD) L-CH 0% MOD) R-CH 1kHz (45% MOD) STEREO SG	Same as above	VTVM & Scope	VR02 F-2525	Separation (Noise Canceller SW → ON)	Proceed step 6 again to confirm the meter Pointer level, 4:3. If not, repeat from step 6.

- Note: 1) Any IF adjustment is unnecessary. Confirm correct IF waveform only.
 2) As two trimmers on F-2524 are pre-adjusted in factory, this adjustment is unnecessary.
 3) When measuring FM distortion, the following measuring instruments are required.
 FM SSG having distortion less than 0.05%
 FM Stereo having distortion less than 0.015%

4-3. MPX Alignment (See Fig. 4-5 on page 6)

- Note: 1. Selector FM Auto
 2. FM Muting switch OFF



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	VR603 F-2526	Light Indicator	Adjust the VR603 within center of lighting level
	PLL VCO Adj. In case of using Freq. Counter		Make short between MPX input terminal 01 of F-2556 and chassis.	TP pin F-2526 Use Freq. Counter	VR603 F-2526	19kHz ± 30Hz	
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	VTVM & Scope	VR601 F-2526	Min. Output -45dB	
3.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) R-CH (0% MOD) L-CH 1kHz (45% MOD) STEREO SG	Same as above	REC OUT R-CH VTVM & Scope	VR602 F-2526	Min. Output -45dB	Confirm step 2. If less than -45dB, repeat step 2, 3.
4.	Muting level & Indicator level	98MHz ANT Input 12dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH (45% MOD)	Same as above	Stereo Indicator	VR604 F-2526	Muting level 12dB Indicator lighting level 12dB	

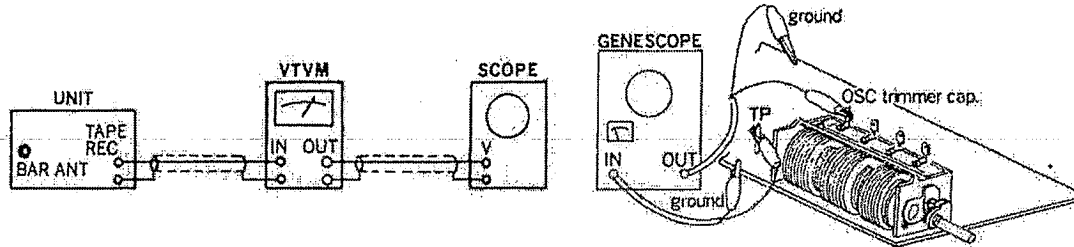
4-4. Calibration level Adjustment (See Fig. 4-6 on page 14)

Note: Two pre-settings and connecting diagram of measuring instruments is same as above 4-3. MPX Alignment.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	Calibration level Adj.	98MHz ANT Input 60dB (MONO 100%)	ANT Terminal 300Ω	REC OUT R or L-CH VTVM & Scope		Set indication level of VTVM to 0dB	Calibration Switch Out
				Same as above	VR605 F-2526	Set the Indication level to -9.5dB from the above 0dB	Calibration Switch In

4-5. AM IF Adjustment and Tracking (See Fig. 4-7 on page 14)

- Note: 1. Selector.....AM
 2. Confirm start point of dial pointer before alignment.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Genescope Output 55dB	L702 F-2539	TP01 F-2539	T02, T03 F-2539	Max. Output	
		Genescope Output 55dB	L702 F-2539	TP01 F-2539	CF01 F-2539	Same as above	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT Terminal	REC OUT L or R-CH VTVM & Scope	T04 F-2539	Same as above	
	1400kHz Dial Calibration	1400kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC03 F-2539	Same as above	
3.	600kHz RF Adj.	600kHz ANT Input 40dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	BAR ANT L701 T01 F-2539	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC01 TC02 F-2539	Same as above	
4.	Signal Meter	1000kHz ANT Input 100dB	Same as above	Signal Meter	VR01 F-2539	4.1 on Meter	

F-2559 FM MPX Noise AMP.
Circuit Board

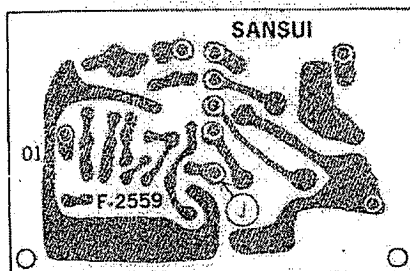


Fig. 4-2

F-2524 FM IF Circuit Board

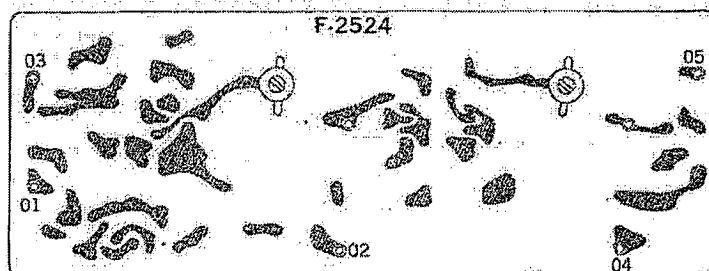


Fig. 4-3

FM Pack (Bottom Side)

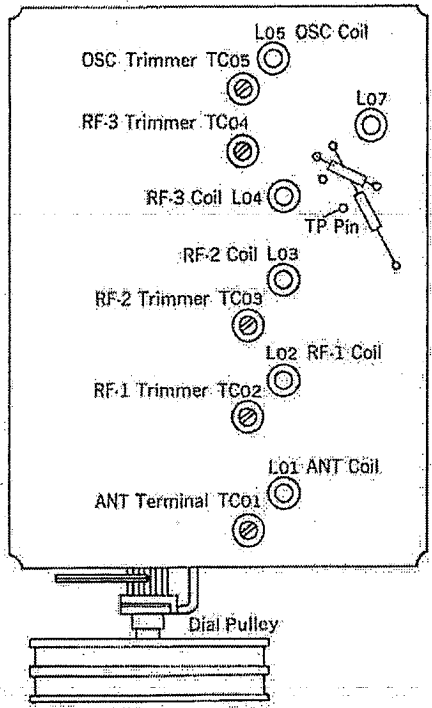


Fig. 4-4

F-2526 MPX Circuit Board

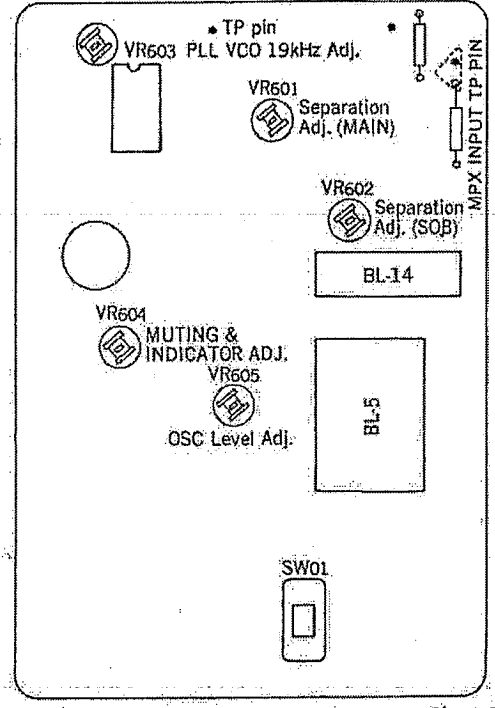


Fig. 4-5

F-2525 FM Discriminator Circuit Board

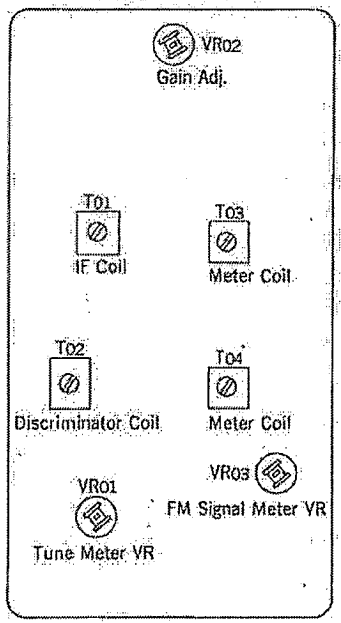


Fig. 4-6

F-2539 AM IF Circuit Board

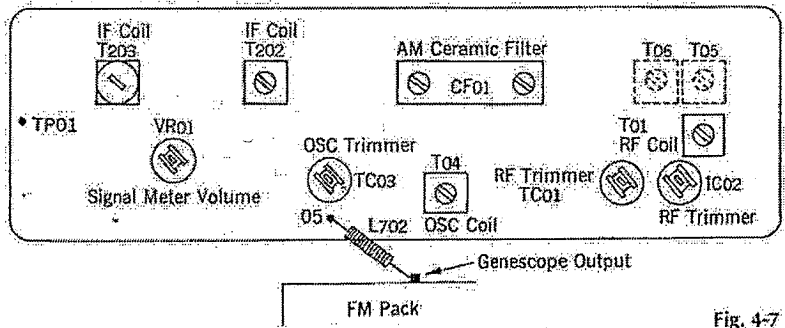


Fig. 4-7

5. TROUBLESHOOTING CHART

*The functional operation of each section is shown in the block diagram on page 16.

Please utilize the diagram together with "Main Troubleshooting on Each Section" in this manual, if necessary.

5-1. Main Troubleshooting on Each Section

Symptom	Cause
1. FM and AM inoperative	
1-1. No any voltage supplied to each section	<ul style="list-style-type: none"> 1. Defective power switch, S9 and voltage selector 2. Power Fuse, F901 opens 3. Power Fuse, F01, F02 on F-2527 open 4. Defective each transistor on F-2527 5. Unproper setting of regulated voltage
1-2. Relay inoperative on MPX output section	<ul style="list-style-type: none"> 6. Defective relay, RL601 7. Defective Power Switch, S9b. (No voltage supplied to relay) 8. Defective calibration switch, S6 9. Muting circuit inoperative
1-3. Defective IC01, IC02 on MPX circuit board	
2. Troubles on FM section	
2-1. FM Inoperative	
1) Signal meter inoperative (Meter circuit operative)	<ul style="list-style-type: none"> 1. Defective FM pack, PAF-5331P 2. FM Pack, PAF-5331P out of adjustment 3. Defective TR01~TR03 on F-2524 4. Defective CF01, BF01, BF02 on F-2524 5. Defective IC01, IC02 on F-2524 6. Defective band width switch, S3
2) Signal meter operative (No output signal at DETECTOR OUTPUT)	<ul style="list-style-type: none"> 7. Defective IC01, IC02 on F-2525 8. Defective TR01, TR02 on F-2525 9. T201, T202 out of adjustment or open 10. Defective TR01 on F-2526
2-2. Troubles on Meter Section	
1) Signal meter inoperative	<ul style="list-style-type: none"> 11. Defective TR03, TR04 on F-2525 12. Defective D02~D04 on F-2525 13. Meter volume, VR03 out of adjustment 14. Defective Signal Meter 15. Defective meter selector switch, S8
2) No input signal to muting, indicator circuit	<ul style="list-style-type: none"> 16. T203, T204 open on F-2525 17. Defective TR05 on F-2525
3) Multi-path meter inoperative (When meter selector switch is pushed) ON (MULTI-PATH)	<ul style="list-style-type: none"> 18. Defective TR06 on F-2525 19. Defective D10, D11 on F-2525 20. Defective meter selector switch, S8
2-3. Troubles on AGC Circuit Section	<ul style="list-style-type: none"> 21. Defective TR04, TR05 on F-2524 22. Defective D06, D07 on F-2524

Symptom

Cause

3. Troubles on MPX Section

3-1. No channel separation on FM stereo broadcasting

- 1) Stereo indicator lamp not lighted
 - 1. Defective TR608, TR609 on F-2526
 - 2. VR603 (76kHz adjustment volume) out of adjustment
 - 3. Defective IC601 on PLL
 - 4. TR601 shorted on F-2525
 - 5. Defective stereo indicator LED04
- 2) Stereo indicator lamp lighted
 - 6. TR603, TR604 open on F-2526
 - 7. T601 open on F-2526
 - 8. Defective D601~D604 on F-2526

3-2. MPX Inoperative at FM MONO position

- 9. Defective TR601, TR602 on F-2526
- 10. Defective TR605~TR607 on F-2526
- 11. Imperfect contact of low pass filter switch
- 12. Imperfect contact of selector switch, S01c, S01b

3-3. Troubles on Muting, indicator circuit

- 1) Muting inoperative
 - 13. Meter circuit inoperative
 - 14. Noise AMP. circuit board, F-2559 inoperative
 - 15. VR604 out of adjustment on F-2526
 - 16. Defective TR610~TR612 on F-2526

4. Troubles on FM Noise Canceller Circuit

- 1. Meter AMP. circuit inoperative
- 2. Defective TR613 on F-2526
- 3. Defective photo-cell lamp, PC601

5. Troubles on Calibration Level Circuit

- 1. Defective TR614, TR615 on F-2526
- 2. VR605 out of adjustment
- 3. Imperfect contact of calibration switch, S6

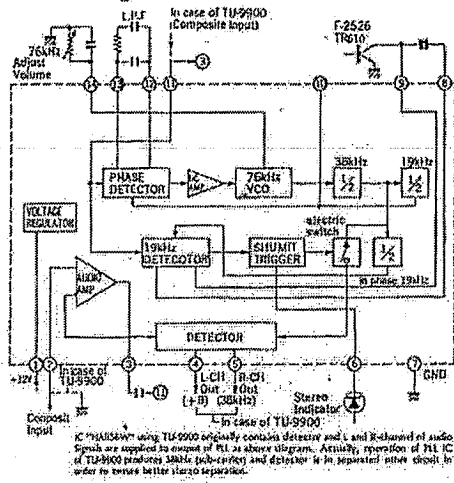
6. Troubles on AM Section

6-1. AM inoperative or weak sensitivity

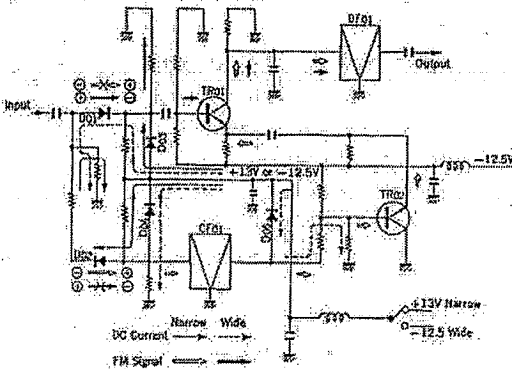
- 1. IF out of adjustment
- 2. RF or tracking out of adjustment
- 3. Each coil open
- 4. Defective transistor on F-2539

5-2. Operation Block Diagram

1) Block Diagram of PLL



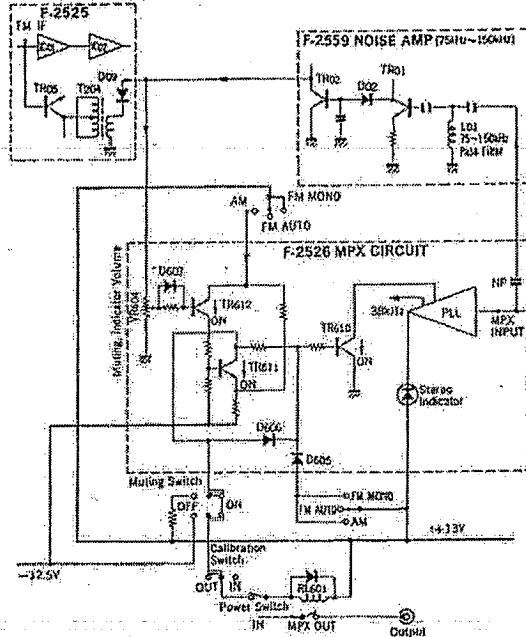
2) FM IF Band With Circuit



*Operation of Band Width Circuit

- 1) Band-width switch..... wide
 - ① -12.5V is supplied to diode switch circuit.
 - ② D01 in signal circuit is ON and D02 is OFF.
 - ③ When D01 is ON, TR01 is ON.
- 2) Band width switch..... Narrow
 - ① +13V is supplied to diode switch circuit.
 - ② D01 in signal circuit is OFF and D02 is ON.
 - ③ Signal flows into narrow band filter (CF01), then TR02 is ON.
 - ④ As TR02, TR01 are used for differential amplifier, output signal is obtained from collector of TR01 by switching the TR02 ON.

3) Muting & Indicator Circuit



Operation of Muting Circuit

- 1) Muting switch..... ON
 - When input level to TR612 is less than 12dB,
 - ① TR612 OFF
 - ② TR611 OFF
 - ③ Relay OFF (on MPX output section)
 - ④ Output signal from output terminal is not obtained.
 - When input level to TR612 is more than 12dB,
 - ① TR612 ON
 - ② TR611 ON
 - ③ Relay ON (on MPX output section)
 - ④ Output signal from output terminal is obtained.
- 2) Muting switch..... OFF or AM position
 - Relay ON (on MPX output section)

Operation of Stereo Indicator Circuit

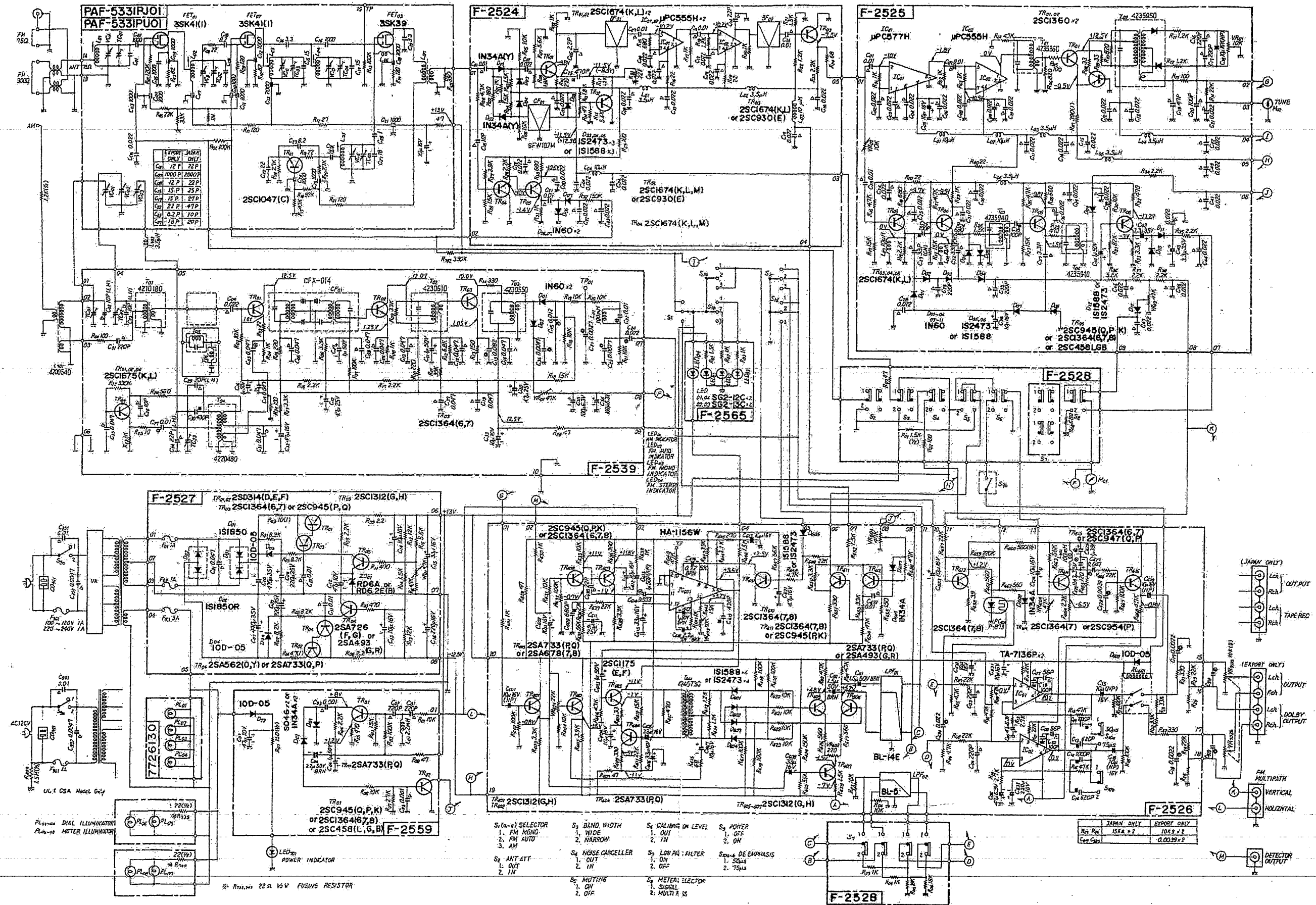
- 1) Selector..... FM AUTO
 - When input level to TR612 is less than 12dB,
 - ① TR612 OFF
 - ② TR611 ON
 - ③ TR610 ON
 - ④ Indicator does not light up.
 - When input level to TR612 is more than 12dB,
 - ① TR612 ON
 - ② TR611 ON
 - ③ TR610 OFF
 - ④ Indicator lights up.
- 2) Selector..... FM MONO or AM position
 - ① TR610 ON
 - ② Indicator does not light up.

Operation of Anti-misoperating Circuit

- ① Noises from 75kHz to 150kHz included in MPX composite signal are amplified by TR01.
- ② By switching TR01 ON, TR02 becomes ON.
- ③ When TR02 becomes ON, V_{CE}(V1) of TR02 nearly becomes 0 volt. If signal through TR05 produces negative potential voltage (V2) by diode, D09.
- The input levels (V1+V2) to TR612 are controlled by the noise level.
- ④ When input level to TR612 is less than 12dB indicator does not light up.

6. SCHEMATIC DIAGRAM

* 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 improvement.



EXPORT ONLY	JAPAN ONLY
R1	22P
R2	200P
R3	200P
R4	200P
R5	25P
R6	27P
R7	47P
R8	10P
R9	20P

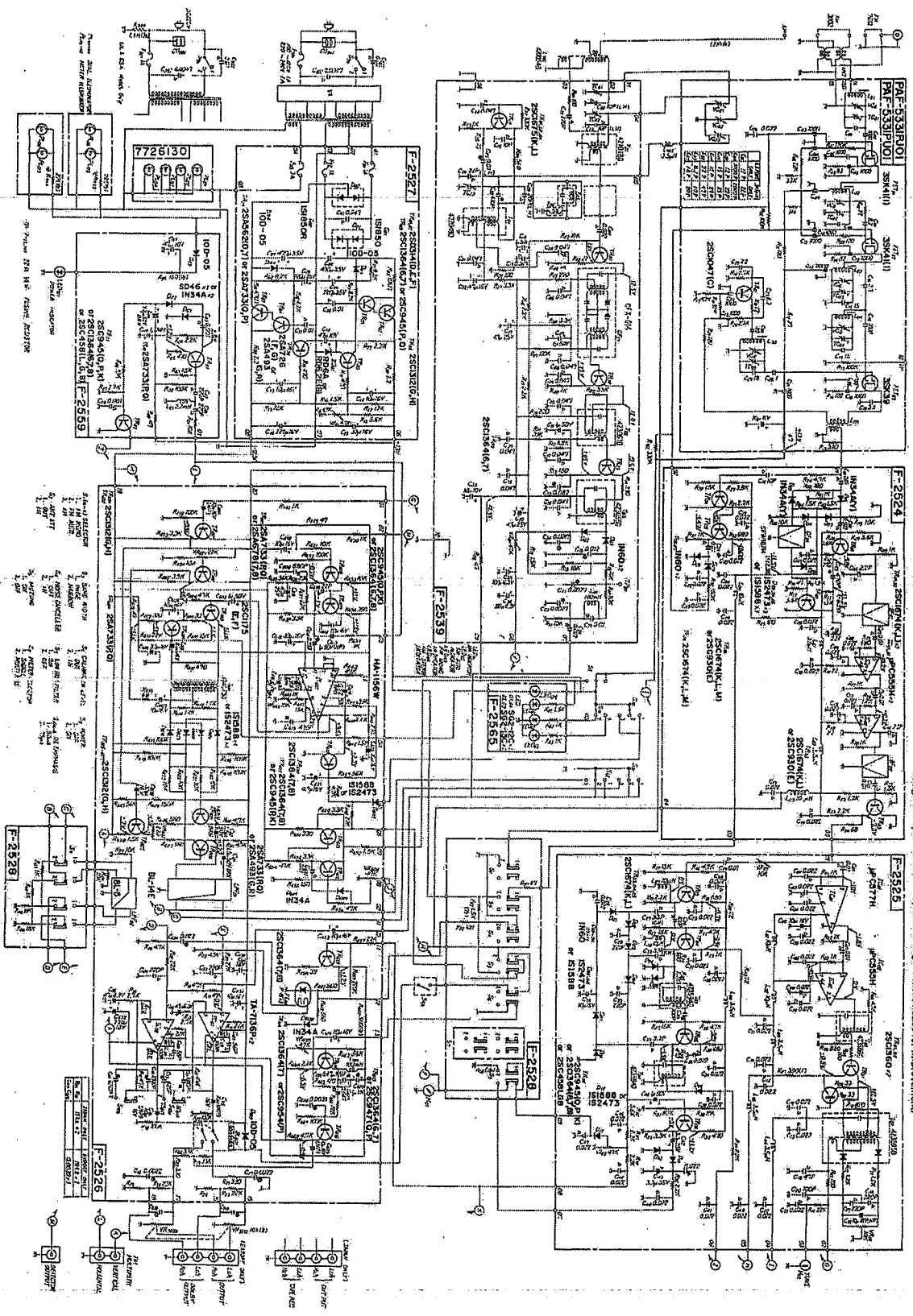
UL1 CSA Model Only
 PL1= DIAL ILLUMINATOR
 PL2= METER ILLUMINATOR

* R01= 22A 1/4W FUSING RESISTOR

- S1 (a-e) SELECTOR
 - 1. FM MENS
 - 2. FM AUTO
 - 3. AM
- S2 ANT ATT
 - 1. OUT
 - 2. IN
- S3 BAND WIDTH
 - 1. WIDE
 - 2. NARROW
- S4 NOISE CANCELLER
 - 1. OUT
 - 2. IN
- S5 MUTING
 - 1. ON
 - 2. OFF
- S6 CALIBR ON LEVEL
 - 1. OUT
 - 2. IN
- S7 LOW PH. FILTER
 - 1. ON
 - 2. OFF
- S8 METER SELECTOR
 - 1. SIGNAL
 - 2. MULTI X 5
- S9 POWER
 - 1. OFF
 - 2. ON
- S10 DE EXPANSION
 - 1. 50dB
 - 2. 75dB

	JAPAN ONLY	EXPORT ONLY
R01	15K ± 2	10K ± 2
C01	0.0022	0.0033 ± 2

6. SCHEMATIC DIAGRAM



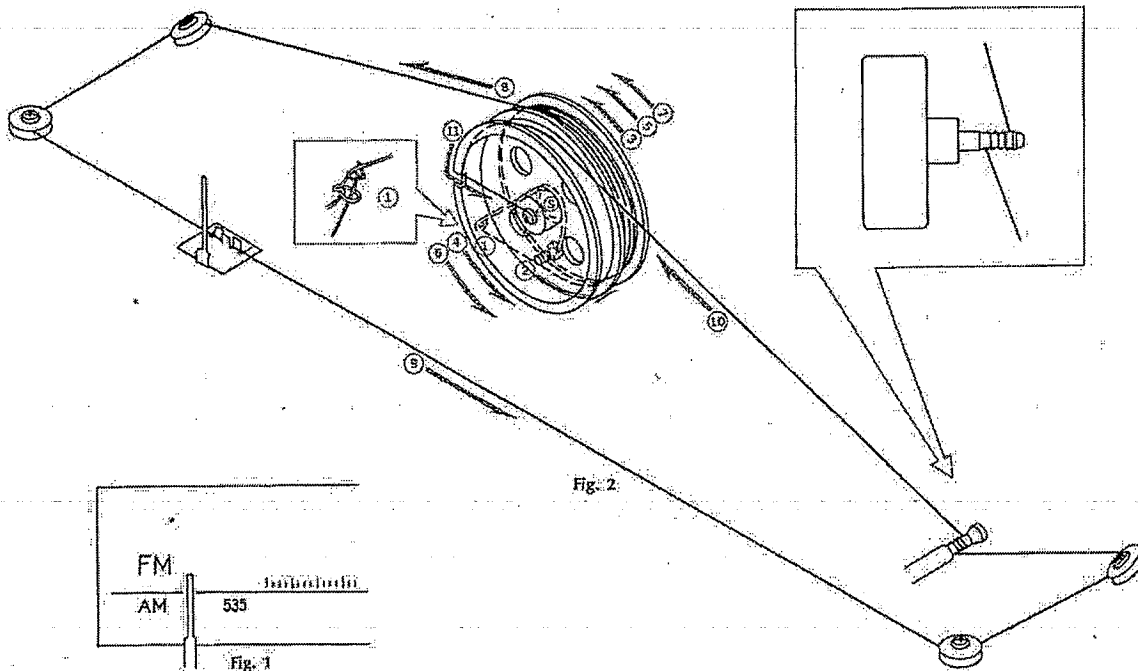
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* Design and specifications subject to change without notice for improvement.

7. THREADING OF DIAL CORD

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

This unit uses 0.6mmφ cord, please replace it with the same type certainly.

*The length of dial cord is approximately 160cm (63 inch).



7-1. Threading of Dial Cord

Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑩ as Fig. 2.

- 1) Open the variable capacitor completely (Min. capacitance).
- 2) Tie dial cord to the dial spring as Fig. 2.
- 3) Thread cord in the direction of arrow from ① to ⑩.
- 4) After ⑩, tie the cord to the screw ⑤ of the dial pulley as Fig. 2.

7-2. Attachment of Dial Pointer

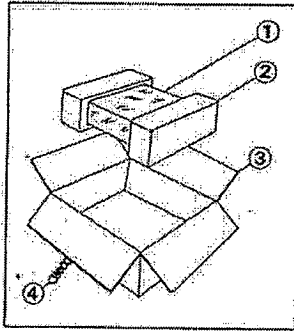
Attachment of Dial Pointer

- 1) Close the variable capacitor completely.
 - 2) Set the dial pointer to the position on dial scale as shown in Fig. 1.
- *Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

Stock No.	Description
6036051	Dial Cord (0.6mmφ)
6146680	D-52 Type Pulley
	(5109122 M3×8. Screw)
	6906490 Dial Spring

8. PACKING LIST

Parts No.	Stock No.	Description
1	9116670	Vinyl Cover
2	9027920	Styrofoam Packing
3	9009370	Carton Case
4	3996080	Curf Stripper



9. ACCESSORY PARTS LIST

Stock No.	Description
9209190	Operating Instructions
3820090, 1	FM Antenna
3810180, 1	Pinplug Cord
2440030	Coaxial Male Connector F-B-R
9237000	Schematic Diagram



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