Hz

SERVICE MANUAL

DIGITAL SYNTHESIZER TUNER

SANSUI TU-S77AMX



CAUTION

- Parts identified by the Asymbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
- Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.



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SANSUI ELECTRIC CO., LTD.

•SPECIFICATIONS

FM Section	
Tuning range	88 to 108 MHz
Usable sensitivity	
	10.8 dBf (1.9 µV : T100)
DIN	0.95 μV
50 dB quieting sensitivity	
Mono	16.2 dBf
Stereo	37.7 dBf
Signal to noise ratio at 8	5 dBf
Mono	90 dB
Stereo	84 dB
Distortion at 65 dBf	
Mono	less than 0.015% at 1,000
Stereo	less than 0.02% at 1,000 H
Alternate channel selecti	vity (at 400 kHz)
NARROW	
Capture ratio	
Image response ratio	
Spurious response ratio.	
Stereo separation	
Frequency response	
Stereo	20 to 15,000 Hz
	+0.2 dB, -0.5 dB
Antenna input impedance	
	300 ohms balanced
	75 ohms unbalanced

AM Section

 Tuning range
 530 to 1,600 kHz

 Usable sensitivity
 Mono
 48 dB/m (251 μV/m)

Signal to noise ratio at 80

dB/m

Others

Output voltage and impedance

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

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

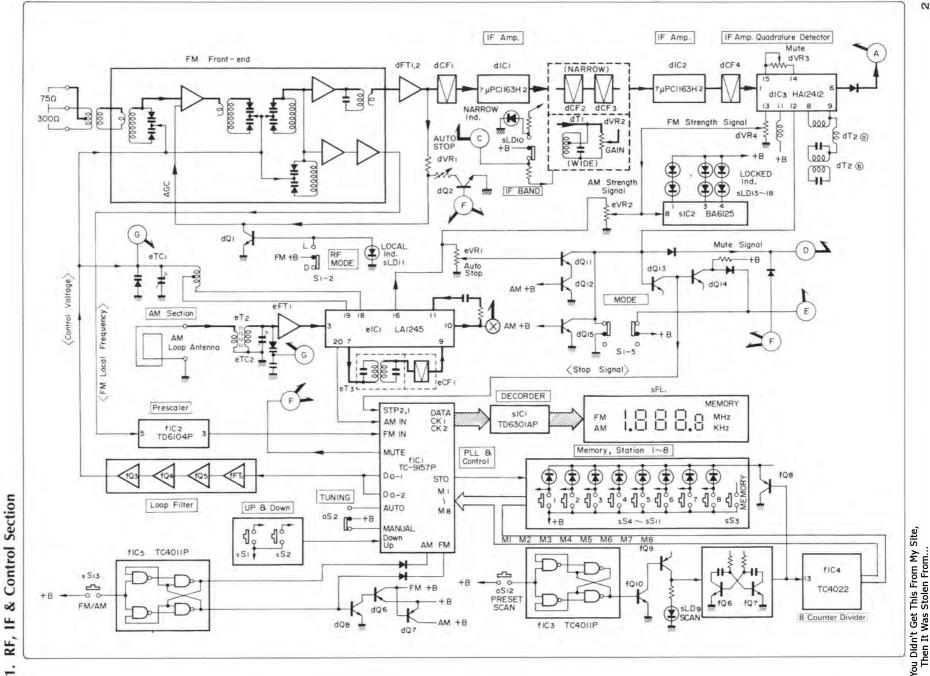
UL	Manufactured for U.S.A market.
	(Underwriters Laboratories approved model.)
CSA	Manufactured for Canadian market.
SA	Manufactured for South African market.
BS, UK	Manufactured for United Kingdom market,
EU	Manufactured for European market.
AS	Manufactured for Australian market.
XX (EXPORT)	Standard Version.
NON MARK	Common Parts.

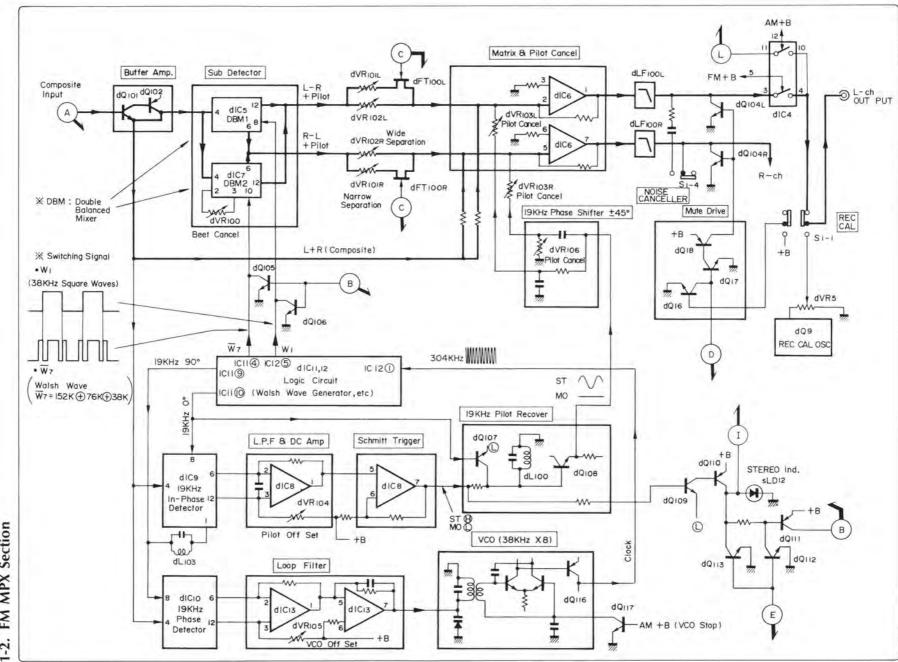
- Some printed circuit boards are not supplied as the assembled.
 To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
- Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.
- 4. Abbreviations in this service manual are as follows.

C.R.	: Carbon Resistor	E.B.L.	: Low Leak Bi-Polar
S.R.	: Solid Resistor		Electrolytic Capacitor
Ce.R.	: Cement Resistor	Ta.C.	: Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C.	: Film Capacitor
F.R.	: Fusing Resistor	M.P.	: Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
A.R.	: Array Resistor	G.C.	: Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C.	: Array Capacitor
C.T.	: Ceramic Capacitor,	V.R.	: Variable Resistor
	Temoerature Compensation	S.V.R.	: Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW.	: Switch
E.L.	: Low Leak Electrolytic	Chip R	.: Chip Resistor
	Capacitor	Chip C	.: Chip Capacitor
E.B.	: Bi-Polar Electrolytic		
	Capacitor		

BLOCK DIAGRAM

7

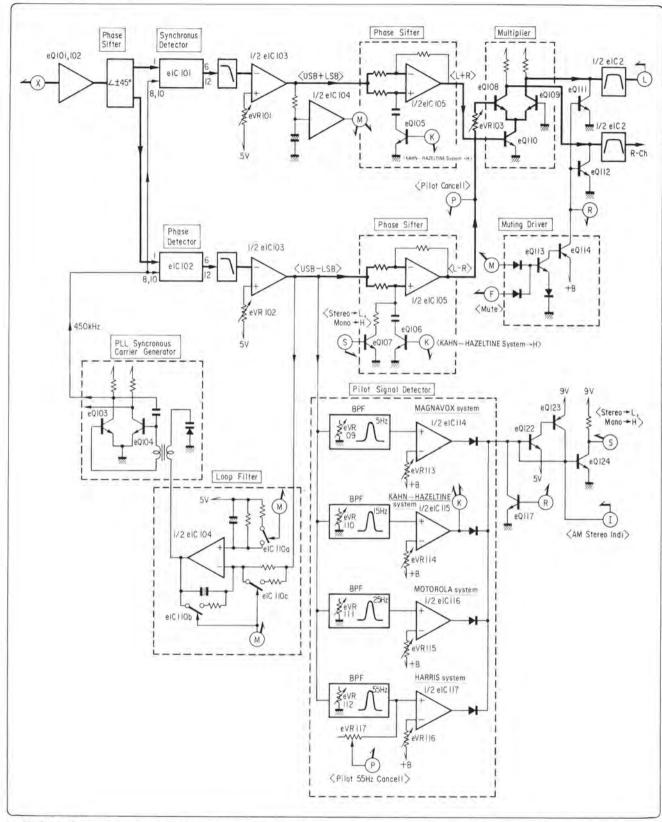




1-2. FM MPX Section

TU-S77AMX

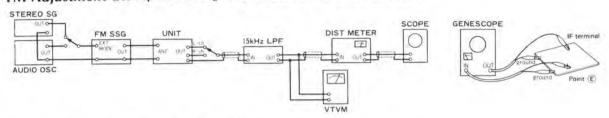
1-3. AM Stereo Section



- 1. MAGNAVOX system: Available for AM stereo systems developed by Magnavox Consumer Electronics Company.
- 2. KAHN-HAZELTINE system: Available for AM stereo systems developed by Kahn Communications Inc. and Hazeltine Corporation.
- 3. MOTOROLA system: Available for AM stereo systems developed by Motorola Inc.
- 4. HARRIS system: Available for AM stereo systems developed by Harris Corporation.

2. ADJUSTMENTS

2-1. FM Adjustment (See Top View on Page 13 and Parts Location F-4372 on Page 8)



1) FM IF & Reference Frequency Adjustment

Title in the interesting tried and in the interesting			
Note: 1. SELECTOR	FM	3 . IF BAND	WIDE
2. FM MODE	MONO	4. RF MODE	DX

	CLIDICOT		FEED SIGN	AL	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
STEP	SUBJECT		FROM	TO	MEASURE OUTFUT	ADJUST	ADJOST TOR	KEMAKKS
1.	Reference Frequency Adj.		No Input		Between Point (A) (Pin 24 of fIC1) & Earth Freq. Counter	fTC1 (F-4372)	25 kHz	• Short between Point ® & Point © (Pin 36 & 42 of fIC1)
2.	IF Coil Adj.		98MHz ANT Input 20dBf (14.8dB), 1kHz (100% MOD.), FM SSG	ANT termianl 300Ω	Between Point ① (Pin 13 of dIC3) & Earth DC Volt Meter	IFT Coil (Front-end) & dT1 (F-4372)	Max. DC Volt	
	1F Wide Gain Adj.		Same as above	Same as above	Same as above	-	Read the indication on DC Volt Meter.	IF Band NARROW
						dVR2 Equal DC Volts o wide band and narrow band.		IF BAND WIDE
3.	Discriminator Coil Adj. In case of using Genescope	1	No Input	-	Between TP1 & TP2 (Accross dR34, F-4372) DC Volt Meter	dT2 (a) (F-4372)	DC 0V ± 30mV	Repeat procedures as stated in subject 1 & 2.
		2	Output 50dB, Genescope	IF Terminal (Front-end) & Earth	Between Point (E) (dC27) & Earth	dT2 (b) (F-4372)	Steep linearity of S curve. Make symmetrical S curve.	
	Discriminator Coil Adj. In case of using Dist	1	No Input		Between TP1 & TP2 (Accross dR34, F-4372) DC Volt Meter	dT2 ⓐ (F-4372)	DC 0V ± 30mV	Repeat procedures as stated in subject 1 & 2.
	meter	2	98MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH VTVM & SCOPE	dT2 (b) (F-4372)	Min. THD	
4.	LOCKED Level Adj.		98MHz ANT Input 35dBf (29.8dB), 1kHz (100% MOD.), FM SSG	Same as above	LOCKED LED	dVR4 (F-4372)	6 indicator LED light up.	STEREO STEREO STEREO STEREO STEREO STEREO STEREO STEREO

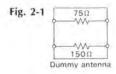
•Technical Hint for FM adjustment

There are two kind in indication of FM SSG output attenuator

- 1. Attenuator with marking of 75Ω open open indication type.
- Attenuator with marking of 75Ω load or close load or close indication type.

FM SG output level in this FM adjustment are described as open indication type.

To feed FM signal, a dummy antenna circuit as Fig. 2-1 must be connected between FM SG output and ANT terminal (300Ω) of the unit.



The following table shows relations among FM SG attenuator indication (dB), available power ratio (dBf) and antenna terminal voltage (dB/μV) in each indication type.

	FM SG	Available	Antenna
	Attenuator	Power	Terminal
	Indication	Ratio	Voltage
Open indication type	0 dB	-0.8 dBf	-6 dB/μV
	66 dB	65.2 dBf	60 dB/μV
Load or close	0 dB	5.2 dBf	0 dB/μV
indication type	60 dB	65.2 dBf	60 dB/μV

2) REC Calibration level Adjustment

STEP	CURIECT	FEED SIGNAL		MEASURE OUTPUT	ADIUST	ADJUST FOR	REMARKS	
SIEP	SUBJECT	FROM TO		MEASURE OUTFOI	Abjosi	ADJOSI TOK	REMINIO	
1.	Calibration Level Adj.	98MHz ANT Input 65dBf (59.8dB), MONO 1kHz (100% MOD.)	ANT terminal 300Ω	OUT PUT R or L-CH VTVM & SCOPE)	Read the indication on VTVM.	REC CAL SW OFF	
		-	-	Same as above	dVR5 (F-4372)	-4dB from the above reading.	REC CAL SW ON	

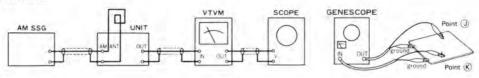
3) FM STEREO Adjustment (See Top View on Page 13 and Parts Location F-4372 on Page 8 and F-4375 on Page 9)

CTER	CURIFCE		FEED SIGN	AL	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
STEP	SUBJECT		FROM	TO	MEASURE OUTFOR	ADJOSI	Abjosi iok	KENVIKKO
1.	PLL VCO Free Running Frequency Adj.	1	98MHz ANT Input 65dBf (59.8dB) FM SSG. No. MOD.	ANT terminal 300Ω	Between dTP1 & dTP4 (F-4375) DC Volt Meter	dVR105 (F-4375)	DC 0V ± 0.05V	
		2	Same as above	Same as above	Between dTP3 & Earth (F-4375) Frequency Counter	dL101 (F-4375)	304.000kHz	
2.	Pilot Offset Adj.	1	Same as above	Same as above	Between dTP2 & dTP5 (near dVR104) (F-4375) DC Volt Meter	dVR104 (F-4375)	DC 0V±0.1V	
		2	98MHz ANT Input 65dBf (59.8dB), FM SSG. Pilot 19kHz (9% MOD.), STEREO SG.	Same as above	STEREO Indicator		Confirm that STEREO Indicator light up.	
3.	19kHz Phase Co Adj. In case of using dual channel oscilloscope		98MHz ANT Input 65dBf (59.8dB), FM SSG. 1kHz Sub channels (100% MOD.) STEREO SG.	Same as above	Between Point (F) (R113) & Earth (F-4375) CH1 of Dual channel oscilloscope Between cross-conductor (JW8) & Earth (F-4375) CH2 of Dual channel oscilloscope	dL103 (F-4375)	Equal widths of W1 Switching signal and sub-carrier.	-CH1 W1 switch ing signal -CH2 sub-carrie
	19kHz Phase Coil Adj. In case of using VTVM		98MHz ANT Input 65 dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.), R MODE 10kHz+Pilot (100% MOD.), STEREO SG.	Same as above	OUTPUT L-ch VTVM & SCOPE	dL103 (F-4375)	Min. Indication on VTVM.	

STEP	SUBJECT		FEED SIGN	AL	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS		
SIEP	SUBJECT	FROM TO MEASO		MEASURE OUTFUT	ADJUST	ADJUST TOK	KEMIAKKS			
4.	Birdie Noise Cancelling Adj				ancelling Adj 65dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.) STEREO SG.		OUT PUT VTVM & SCOPE	dVR100 (F-4375)	Min. beat noise level	Birdie Noise is generated by inter- ference from mod- rated side band of alternate station.
			115kHz 7~8V, Audio SG.	Between Point © (dR102) through 47kohms resistor & Earth						
5.	Pilot Cancelling Adj.	1	98MHz ANT Input 65 dBf (59.8dB), FM SSG.	ANT terminal 300Ω	Between dTP5 (near dIC6) & Earth SCOPE	dVR104 (F-4375)	Min. 19kHz signal level	Pilot 19kHz No Modulation		
		2	98MHz ANT Input 65dBf (59.8dB), FM SSG. Pilot 19kHz (9% MOD.), STEREO SG.	Same as above	Same as above	_	Confirm that 19kHz pilot signal indicated on scope.			
		3	Same as above	Same as above	Between Point (H) (dR146L) & Earth Audio Spectrum Analizer or Scope through 19kHz band pass filter (B.P.F.)	dL100 dVR103L (F-4375)	Min. 19kHz Pilot signal level			
		4	Same as above	Same as above	Between Point ① (dR146R) & Earth Audio Spectrum Analizer or Scope through 19kHz band pass filter (B.P.F.)	dVR103R dVR106 (F-4375)	Same as above			
6.	Separation Adj. (WIDE band)	1	98MHz ANT Input 65dBf (59.8dB),	Same as above	OUTPUT R-CH VTVM & SCOPE		Read the indication on VTVM.	IF BAND, WID Confirm R→L-CH		
			FM SSG. Pilot 19kHz (9% MOD.) R MODE 1kHz+Pilot (100% MOD.), STEREO SG.		OUTPUT L-CH VTVM & SCOPE	dVR102L (F-4375)	-34dB from the indication above.			
		2	98MHz ANT Input 65dBf (59.8dB),	Same as above	OUTPUT L-CH VTVM & SCOPE	-	Read the indication on VTVM	IF BAND WID Confrim L→R-CH		
			FM SSG. Pilot 19kHz (9% MOD.), L MODE 1kHz+Pilot (100% MOD.), STEREO SG.		OUTPUT R-CH VTVM & SCOPE	dVR102R (F-4375)	—34dB from the indication above.	After this adjust- ment, perform STEP4. Birdie Nois Cancelling Adj.		
7.	Separation Adj. (NARROW	1	98MHz ANT Input 65dBf (59.8dB),	Same as above	OUTPUT R-CH VTVM & SCOPE	-	Read the indication on VTVM	NARROW		
	band)		FM SSG. Pilot 19kHz (9% MOD.) R MODE 1kHz+Pilot (100% MOD.), STEREO SG.		OUTPUT L-CH VTVM & SCOPE	dVR101L (F-4375)	-34dB from the indication above.	Confirm R→L-CH		
		2	98MHz ANT Input 65dBf (59.8dB), FM SSG. Pilot	Same as above	OUTPUT L-CH VTVM & SCOPE	-	Read the indication on VTVM	IF BAND NARROW Confirm L→R-CH		
			19kHz (9% MOD.), L MODE 1kHz+Pilot (100% MOD.) STEREO SG.		OUTPUT R-CH VTVM & SCOPE	dVR101R (F-4375)	-34dB from the indication above.	After this adjust- ment, perform STEP4. Birdle Nois Cancelling Adj.		
8.	Muting Level Ac	łj.	98MHz ANT Input 25dBf (19.8dB), FM SSG, Pilot 19kHz (9% MOD.), L or R MODE 1kHz+Pilot (100% MOD.). STEREO SG.	Same as above	Stereo indicator OUTPUT L-CH or R-CH, VTVM & SCOPE	dVR3 (F-4372)	Stereo indicator turns ON or Output Signal comes out			
9.	Auto Stop Level Adj.		98MHz ANT Input 35dBf (29.8dB) 40dBf (34.8dB) 1kHz (100% MOD.), FM SSG	Same as above	Digital Display	dVR1 (F-4372)	Turn the tuner to 98MHz by using the automatic search tuning operation.	Perform the automatic search tuning operation by depressing the TUNING button		

2-2. AM Adjustment (See Top View on Page 13 and Parts Location F-4372 on Page 8)

1) AM IF Adjustment



Note: 1. SELECTOR...... AM

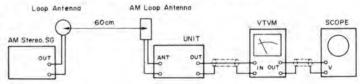
2. Connect AM loop antenna to AM antenna terminal

	CHOICE	FEED SIGN	AL	MEASURE OUTPUT	ADMICT	ADMICT FOR	REMARKS	
STEP	SUBJECT	FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	KEWIAKKS	
1.	IF Coil Adj.	Genescope Output 60dB	Point ① (eC8) (F-4372)	Between Point ® (eR19) & Earth F-4372	eT3 (F-4372)	Max, Waveform	\wedge	
2.	520kHz (or 522kHz) Tuning Voltage Adj.	No Input	-	Between Point (1) (eR1, F-4372) & Earth DC Volt Meter	eT1 (F-4372)	1.1V±0.2V	Repeat procedures as stated in subject 2 & 3.	
3.	1610kHz (or 1611kHz) Tuning Voltage Adj.	No Input	-	Same as above	eTC1 (F-4372)	19.7V ± 0.2V		
4.	600kHz (or 603kHz) RF Adj.	600kHz (or 603kHz) ANT Input 30dB 400Hz (30% MOD.), AM SSG	ANT terminal	OUTPUT L-CH or R-CH VTVM & SCOPE	eT2 (F-4372)	Max. Output	\wedge	
5.	1400kHz (or 1404kHz) RF Adj.	1400kHz (or 1404kHz) ANT Input 30dB 400Hz (30% MOD.), AM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & SCOPE	eTC2 (F-4372)	Max. Output	7	
6.	LOCKED Level Adj.	1000kHz (or 999kHz) ANT Input 50dB 400Hz (30% MOD.), AM 55G	Same as above	LOCKED LED	eVR2 (F-4372)	6 Indicator LED light up.	STEREO	
7.	Auto Stop Level Adj.	1000kHz (or 999kHz) ANT Input 65dB 400Hz (30% MOD.), AM SSG	Same as above	Between Point M (jW2 F-4372) & Earth DC Volt Meter	eVR1 (F-4372)	1.1V ± 0.1V		

2) AM STEREO Adjustment (See Top View on Page 13 and Parts Location F-4367 on Page 11 and F-4535 on Page 12)

3. Setting of AM Stereo SG

 MODE Frequency...... 400Hz •Main Channel MOD...... 30%



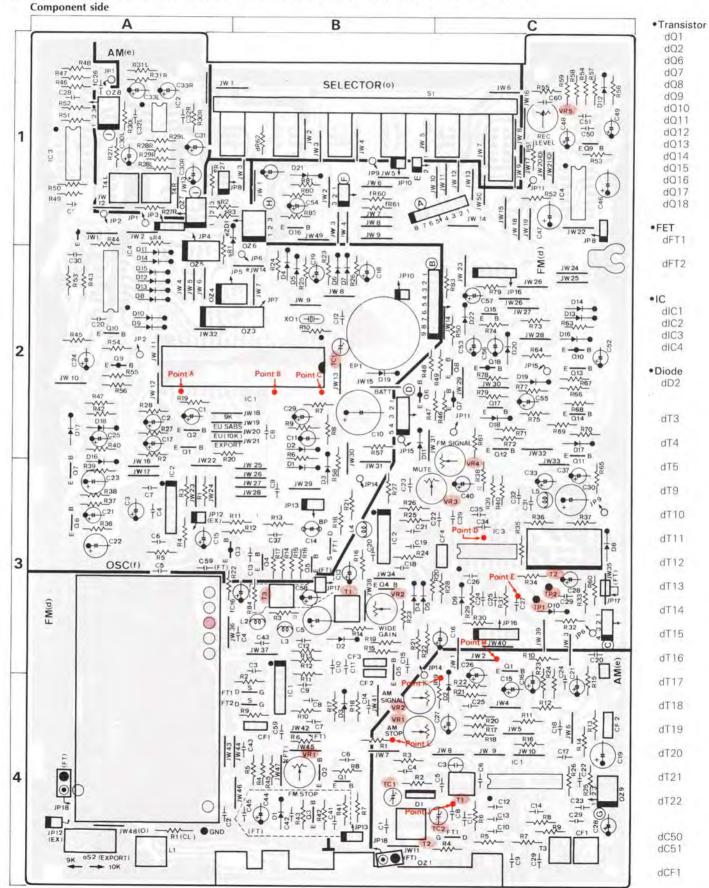
CTER	CHINIFCE		FEED SIGN	AL	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
STEP	SUBJECT		FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	KEMIAKKS
1.	Muting Level & VCO Adj.	1	No Input		Between Point ⓐ (Pin 1 of elC104) & GND DC Volt Meter	eVR101 F-4367	High Level (DC8.5V) comes out	
		2	No Input	-	Between Point (Pin 7 of elC104) & Point (Q) (eR134) DC Volt Meter	eVR102 F-4367	DC0mV ± 30mV	•Repeat procedures as stated in subject 2 & 3.
		3	No Input		Between Point © (Pin 8 of elC101) & GND Frequency Counter	eT101 F-4367	450kHz ± 50Hz	
		4	1000kHz ANT Input 40dB R=L MODE AM Stereo SG	ANT terminal	OUTPUT L-CH or R-CH VTVM & SCOPE	eVR101 F-4367	Muting point	

3. PARTS LOCATION & PARTS LIST

3-1. F-4372 FM, AM Tuner & Synthesizer Control Circuit Board (Stock No. 00783801)

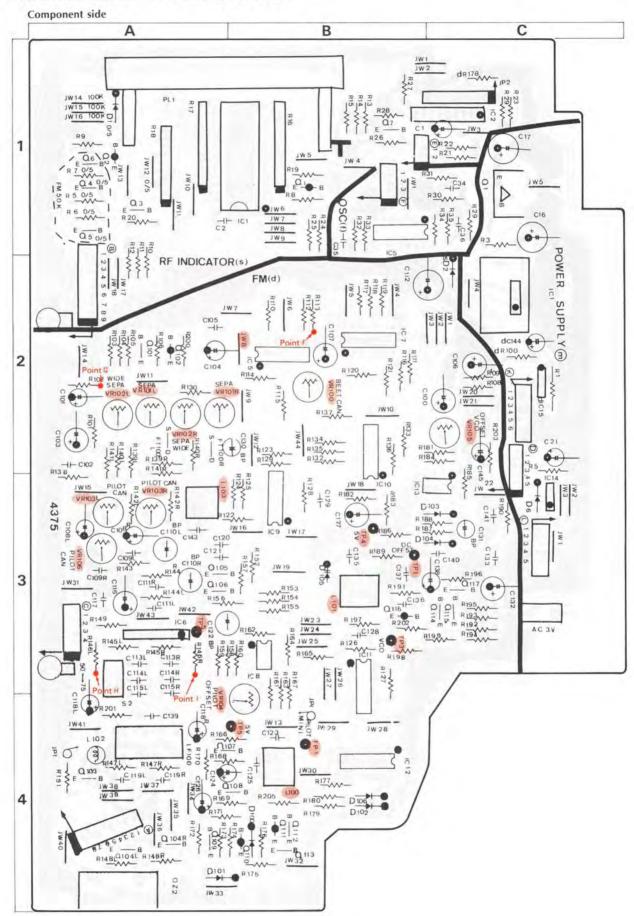
Parts List < F-4
Parts No.

Parts No.



Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
	46725000	FM Frontend Pack	dCF2	46867100	Ceramic Filter (SFE10.7MM RED)	fQ9 fQ10	46367201 46367301	2SA1048 2SC2458
Transistor			dCF3	46867100	Ceramic Filter	1010	40507501	2302430
dQ1	46391901	2SC2785			(SFE10.7MM RED)	•FET		
dQ2	46391901	2SC2785	dCF4	46920000	Ceramic Filter	fFT1	03703001	2SK117-Y
dQ6	46367001	2SA1115			(SFE10.7MXK-N)	5.72	or 03703002	2SK117-GR
dQ7	46367001	2SA1115		105 10000	2.1	•IC	********	
dQ8 dQ9	46367101 46391901	2SC2603 2SC2785	dL1	46548900 46174400	Balun Inductor 3.3µH	fIC1	46397400	TC9157P
dQ10	46392001	2SA1175	dL2 dL3	46175300	Inductor 3.3µH	fIC2 fIC3	07225000 03604100	TD6104P TC4011P
dQ11	46391901	2SC2785	dL4	46174400	Inductor 3.3µH	fIC4	46530000	TC4022BP
dQ12	46391901	2SC2785	dL5	46174400	Inductor 3.3µH	1104	40000000	10402201
dQ13	46391901	2SC2785				fXO1	07237700	Quartz Element
dQ14	46391901	2SC2785	dT1	46369500	FM IF Coil			NC-18C
dQ15	46391901	2SC2785	dT2	46724600	FM IF Coil	840.00		
dQ16 dQ17	46391901	2SC2785	41/12.1	10050100	22010/01/01/01/0	• Diode	00117000	100170777
dQ18	46391901 46392001	2SC2785 2SA1175	dVR1	10352100	220kΩ(B) S.V R FM auto stop	fD1	03117600	1S2473T77
0010	40302001	23A1175			level adj.	fD2	or 46086000 03117600	1S1588TP-3 1S2473T77
FET			dVR2	10350400	330Ω(B) S.V.R.,	102	or 46086000	1S1588TP-3
dFTT	46724700	2SK241-Y	200	1.75	IF wide gain adj.	fD3	03117600	1S2473T77
	or 46724701	2SK241-GR	dVR3	10351700	47kΩ(B) S.V.R.,		or 46086000	1S1588TP-3
dFT2	46724700	2SK241-Y			Muting level adj.	fD4	03117600	1S2473T77
	or 46724701	2SK241-GR	dVR4	10351300	10kΩ(B) S.V.R.,		or 46086000	1S1588TP-3
•IC					FM Strength signal level adj.	fD5	03117600	1S2473T77
dIC1	03605400	μPC1163H	dVR5	10351300	10kΩ(B) S.V.R.,	fD6	or 46086000 03117600	1S1588TP-3
dIC2	03605400	μPC1163H	dviis	10301300	Rec calibration	100	or 46086000	1S2473T77 1S1588TP-3
dIC3	46725900	HA12412-01			rice combination	fD7	03117600	1S2473T77
dIC4	07224800	TC4066BP	↑ dR38	08922100	22Ω 1/2W N.L.R.		or 46086000	1S1588TP-3
						fD8	03117600	1S2473T77
• Diode	Devised.		 Transistor 		Late Vision		or 46086000	1S1588TP-3
dD2	03117600	1S2473T77	eQ1	46367301	2SC2458	fD9	03117600	1S2473T77
	or 46086000	1S1588TP-3	•FET			IDIO	or 46086000	1S1588TP-3
dT3	03117600	1S2473T77	eFT1	46393000	2SK192A-Y	fD10	03117600 or 46086000	1S2473T77 1S1588TP-3
415	or 46086000	1S1588TP-3	St. I.I.	or 46393001	2SK192A-GR	fD11	03117600	1S2473T77
dT4	03117600	1S2473T77		0	20/1/02/10/1	1811	or 46086000	1S1588TP-3
	or 46086000	1S1588TP-3	•IC			fD12	03117600	1S2473T77
dT5	03117600	1S2473T77	elC1	46724000	LA1247		or 46086000	1S1588TP-3
(7.0	or 46086000	1S1588TP-3	elC2	03607700	NJM4558D	fD13	03117600	1S2473T77
dT9	03117600	1S2473T77	• 7 Diade			1014	or 46086000	1S1588TP-3
dT10	or 46086000 03117600	1S1588TP-3 1S2473T77	•Zener Diode eDZ1	46112900	05Z 9.1-X	fD14	03117600 or 46086000	1S2473T77
4) (0	or 46086000	1S1588TP-3	eDZ I	or 46113000	05Z 9.1-X	fD15	03117600	1S1588TP-3 1S2473T77
dT11	03117600	1S2473T77		01 10110000	Q9E 911 N	1010	or 46086000	1S1588TP-3
	or 46086000	1S1588TP-3	eC32	46693600	2200pF 50V F.C.	fD16	03117600	1S2473T77
dT12	03117600	1S2473T77					or 46086000	1S1588TP-3
.5.0	or 46086000	1S1588TP-3	eTC1	46095600	Trimmer	fD17	03117600	1S2473T77
dT13	03117600	1S2473T77	TOB	10005000	Capacitor 20pF	10.10	or 46086000	1S1588TP-3
dT14	or 46086000 03117600	1S1588TP-3	eTC2	46095600	Trimmer Capacitor 20pF	fD18	03117600	1S2473T77
0114	or 46086000	1S2473T77 1S1588TP-3			Capacitor 20pr	fD19	or 46086000 03117600	1S1588TP-3 1S2473T77
dT15	03117600	1S2473T77	eCF1	46724400	Ceramic Filter	1013	or 46086000	1S1588TP-3
	or 46086000	1S1588TP-3	eCF2	46578100	Ceramic Filter		01 10000000	70 100011 0
dT16	03117600	1S2473T77				fC10	46151500	2200µF 6.3V E L
	or 46086000	1S1588TP-3	eT1	46724100	AM RF Coil	fC14	08451700	1µF 50V E.B.
dT17	03117600	1S2473T77	eT2	46724200	AM RF Coll			
JT10	or 46086000	1S1588TP-3	eT3	46724300	AM IF Coil	fTC1	46095800	Trimmer
dT18	03117600	1S2473T77	eT4	09104600	Low Pass Filter		10100000	Capacitor 45pF
dT19	or 46086000 03117600	1S1588TP-3 1S2473T77	eVR1	10351700	47kΩ(B) S.V.R.,		or 46163000	Trimmer Capacitor 50pF
ulla	or 46086000	1S1588TP-3	GVIII	19331700	AM stop level			Capacitor Supr
dT20	03117600	1S2473T77	eVR2	10351700	47kΩ(B) S.V.R.,	fEP1	46255500	LITHIUM BATTERY
	or 46086000	1S1588TP-3	942.Can		AM strength signal		2222248	CR2430
dT21	03117600	1S2473T77			- 10 / F / SC /			
ITES	or 46086000	1S1588TP-3	Transistor	44444	0000150	oS1	46725300	Push SW, REC CAL
dT22	03117600	1S2473T77	fQ1	46367301	2SC2458			RF BAND, IF BAND
	or 46086000	1S1588TP-3	fQ2	46367301	2SC2458			NOISE CANCELLER,
dC50	46695300	0.011µF 50V F.C.	fQ3 fQ4	46367201 46367301	2SA1048 2SC2458	oS2	46177200	FM MODE, TUNING
dC51	46695300	0.011µF 50V F.C.	fQ5	46367301	2SC2458 2SC2458	032	40177200	Slide SW , AM STEP (XX)
4-3	1000000	SIGNIAL SOV FICE	fQ6	46367301	2SC2458			WINI OTEL IVVI
HOLY	46920000	Ceramic Filter	tQ7	46367301	2SC2458			
dCF1	40320000	Geranne Filter	1027	(000,00	2002,00			

3-2. F-4375 MPX Circuit Board (Stock No. 00787701)



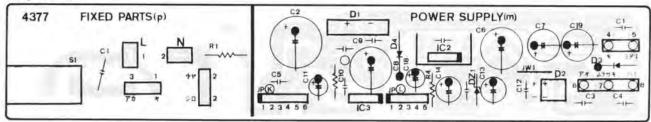
Pa		

Parts No.	Stock No.	Description
Transistor	The charles	AND AND AND
dQ101	46581701	2SC1845
dQ102	46581601	2SA992
dQ103	46540801	2SC2878
dQ104	46540801	2SC2878
dQ105	46540801	2SC2878
dQ106	46540801	2SC2878
dQ107	46581701	2SC1845
dQ108	46581701	2SC1845
dQ109	46581701	2SC1845
dQ110	46581601	2SA992
dQ111		2SA1175
	46392001	
dQ112	46391901	2SC2785
dQ113	46581701	2SC1845
dQ114	46391901	2SC2785
dQ115	46391901	2SC2785
dQ116	46392001	2SA1175
dQ117	46581701	2SC1845
-cer		
•FET dFT100	46643700	2SK246-Y
91 1 100	or 46643701	2SK246-GR
	or 46643702	2SK246-BL
	U 40043702	ZUNZTU UZ
•IC	200	0.000
dIC5	46723700	NJM1496D
dIC6	46579100	M5219L
dIC7	46723700	NJM1496D
dIC8	03607700	NJM4558D
dIC9	46723700	NJM1496D
dIC10	46723700	NJM1496D
dIC11	46465500	MSM4030RS
dIC12	03604400	MSM4520
dIC13	03607700	NJM4558D
AdIC14	46359400	L78N05
.t.dIC15	46361500	L78N12
• Diode		
dD100	03117600	1S2473T77
140100	or 46086000	1S1588TP-3
dD101	03117600	1\$2473T77
au ru i		
35100	0(46086000	1S1588TP-3
dD102	03117600	152473177
16.565	or 46086000	1S1588TP-3
dD103	03117600	1S2473T77
	or 46086000	1S1588TP-3
dD104	03117600	1S2473T77
	or 46086000	1S1588TP-3
•Varatta D	inda	
• Varactor D		ECCEEM
dD105	46087800	FCC66M
• Diode		
dD106	03117600	1S2473T77
	or 46086000	1S1588TP-3
40100	00451700	1E FOV F.B.
dC108	08451700	1μF 50V E.B
dC110	08451100	22μF 16V E.B.
dC119	46694200	3900pF 50V F C
dC122	08451700	1μF 50V E.B.
dC130	08451700	1μF 50V E B
dC131	08451700	1μF 50V E.B.
		1000pF 100V P C

Parts No.	Stock No.	Description
₫ dR3	08922500	47Ω 1/2W N.I.R.
1 dR100	00118000	22Ω 1/4W F.R.
↑ dR101	00118000	22Ω 1/4W F.R.
↑ dR149	00118000	22Ω 1/4W F.R.
: dR190	00118000	22Ω 1/4W F R
: dR203	00118000	22Ω 1/4W F.R.
dLF100	46894900	Low Pass Filter TF-10
dL100	46723500	RF Coil
dL102	46174400	Inductor 3.3µH
dL101	46723400	RF Coil
dL103	42407201	FM MPX Coil
dVR100	10342300	2.2kΩ(B) S.V.R., Beet Cancel
dVR101	10343300	100kΩ(B) S.V.R., Narrow Sparation
dVR102	10342300	2.2kΩ(B) S.V.R., Wide Separation
dVR103 dVR104	10343100	47kΩ(B) S.V.R., Pilot Cancel 10kΩ(B) S.V.R., Pilot Off Set
	10342700	TOKM(B) S.V.H., Pilot Off Set
dVR105		10kΩ(B) S.V.R., VCO Off Set
dVR106	10342300	2.2kΩ(B) S.V.R., Pilot Cancel
dS2	07251100	Slide SW , FM de-entacess
•IC		
fIC5	03604100	TC4011P
Transistor		
.∱ mQ1	03083901	2SD313AL
•IC		
₫ mIC1	46361500	L78N12
Diode		
: mD6	03117600	1S37T77
4	or 46086000	1S1588TP-3
	46725200	.2P OUTPUT Terminal Board, OUT PUT
†mR1	00179000	10Ω 1W N.I.R.
• Transistor		
sQ1	46367201	2SA1048
502	46367201	2SA1048
sQ3	46367301	2SC2458
sQ7	46367301	2SC2458
•IC	32732-75	
sIC1	46410100	TD6301AP
sIC2	46392500	BA6125
• Diode		
sD2	03117600	1S2473T77
	or 46086000	1S1588TP-3
sPL1	46526400	FL. Display Tube FG78H8GR
sR16	46049600	$10k\Omega \times 10 \text{ 1/8W A.R.}$
sR17	46049600	10kΩ×10 1/8W A.R.
	46045900	10kΩ×8 1/8W A.R.

3-3. F-4377 Power Supply Circuit Board (Stock No. 00760401)

Component Side

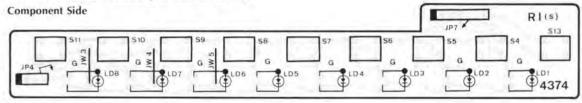


Parts List

Parts No.	Stock No.	Description
•IC		
1 mlC2	46361200	L78N06
∴ mlC3	46361800	L78N24
• Diode		
↑ mD1	07193300	UB-152LFF
₫ mD2	46273600	DBB10-B
_1 mD3	03117700	10E-2
1 mD4	03117700	10E-2
₫ mD6	03111600	1S2473
	or 03111800	1S1588

Parts No.	Stock No.	Description
• Zener Diod	e	
mDZ1	46101500	05Z 6.2-X
	or 46101600	05Z 6.2-Y
	or 46101700	05Z 6.2-Z
mC5	46280900	0.22µF 50V F.C
∆ pC1	46425800	0.01µF 400V C.C.
₫ pS1	46413900	Push SW., POWER

3-4. F-4374 Preset Memory Circuit Board



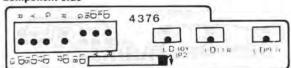
Parts List

Parts No.	Stock No.	Description	
•LED			
sLD1	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD2	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD3	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD4	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD5	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD6	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD7	07250900	TLG-123A	
	or 46470300	SEL2410E	

Parts No.	Stock No.	Description
sLD8	07250900	TLG-123A
	or 46470300	SEL2410E
sS4	46708100	Push SW., PRESET STATION 1
sS5	46708100	Push SW., PRESET STATION 2
sS6	46708100	Push SW., PRESET STATION 3
sS7	46708100	Push SW., PRESET STATION 4
sS8	46708100	Push SW., PRESET STATION 5
sS9	46708100	Push SW., PRESET STATION 6
sS10	46708100	Push SW., PRESET STATION 7
sS11	46708100	Push SW., PRESET STATION 8
sS13	46708100	Push SW., FM/AM

3-5. F-4376 RF, IF & STEREO Indicator Circuit Board

Component Side

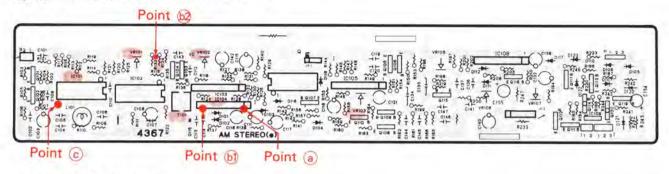


Parts No.	Stock No.	Description
raits ivo.	Stock No.	Description
•LED		
sLD10	07251000	TLY-123
sLD11	46176900	TLS-123
	or 46470200	SEL2210S
sLD12	46176900	TLS-123
	or 46470200	SEL2210S

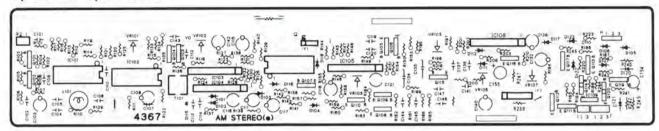
Parts No.	Stock No.	Description	
sLD13	46176900	TLS-123	
	or 46470200	SEL2210S	
sLD14	46176900	TLS123	
	or 46470200	SEL2210S	
sLD15	07251000	TLY-123	
sLD16	07251000	TLY-123	
sLD17	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD18	07250900	TLG-123A	
	or 46470300	SEL2410E	
sLD19	07250900	TLG-123A	
	or 46470300	SEL2410E	

3-6. F-4367 AM Stereo Circuit Board (Stock No. 00784201)

Top View (Component side) with Bottom Side Pattern



Top View with Top Side Pattern

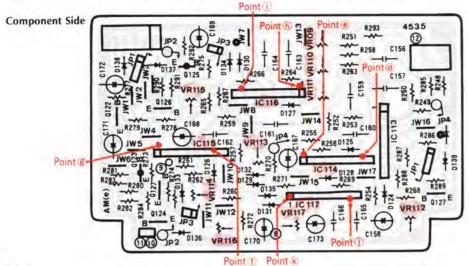


Parts	List	<	F-436	67>

Parts No.	Stock No.	Description
 Transistor 		
eQ101	46208401	2SC2839
eQ102	07299701	2SC2603
	or 46392101	2SC2785
eQ103	03067401	2SC1845
eQ104	03067401	2SC1845
eQ105	07299701	2SC2603
	or 46392101	2SC2785
eQ106	07299701	2SC2603
	or 46392101	2SC2785
eQ107	07299701	2SC2603
	or 46392101	2SC2785
eQ108	07299701	2SC2603
04100	or 46392101	2SC2785
eQ109	07299701	2SC2603
94199	or 46392101	2SC2785
eQ110	07299701	2SC2603
	or 46392101	2SC2785
eQ111	46118801	2SC2878
eQ112	46118801	2SC2878
eQ113	07299701	2SC2603
54110	or 46392101	2SC2785
eQ114	07299601	2SA1115
ou.	or 46392201	2SA1175
eQ117	07299701	2SC2603
1947110	or 46392101	2SC2785
		127.73
•IC		
elC101	46723700	NJM1496D
elC102	46723700	NJM1496D
elC103	46147700	M5218L
elC104	46147700	M5218L
elC105	46147700	M5218L
elC109	46359400	L78N05

Parts No.	Stock No.	Description	
elC110	46860000	TC4016BP	
	or 46863900	M4016BP	
• Diode			
eD101	46868000	1S2473	
eD102	46868000	1S2473	
eD103	46868000	1S2473	
eD104	46868000	1S2473	
eD105	46868000	1S2473	
eD106	46868000	1S2473	
eD107	46868000	1S2473	
eD115	46932400	Voltage V.C. Diode KV1226X	
• Diode			
eD116	46868000	1\$2473	
eD117	46868000	1S2473	
eD118	46868000	1S2473	
eD122	46868000	1S2473	
eD123	46868000	1S2473	
eC112	46649900	0.01µF 100V F.C	
eC113	46932500	120pF 50V C C	
eC116	46867300	6.8µF 50V E.B.	
eC121	46936300	0 33μF 50V E.B.L.	
eL101	46894600	Inductor 120µH	
eT101	46917900	AM RF Coil	
eVR101	46634300	10K S.V.R.	
eVR102	46634300	10K S.V.R.	
eVR103	46634300	10K S.V R	

3-7. F-4535 AM Stereo Method Detection Circuit Board (Stock No. 00801901)



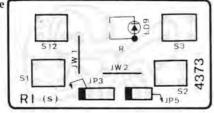
Parts List

Parts No.	Stock No.	Description	
Transistor			
eQ121	07299701	2SC2603	
	or 46392101	2SC2785	
eQ122	07299701	2SC2603	
	or 46392101	2SC2785	
eQ123	07299701	2SC2603	
	or 46392101	2SC2785	
eQ124	07299701	2SC2603	
	or 46392101	2SC2785	
eQ125	07299701	2SC2603	
	or 46392101	2SC2785	
eQ126	07299701	2SC2603	
	or 46392101	2SC2785	
eQ127	07299701	2SC2603	
	or 46392101	2SC2785	
•IC			
elC113	46147700	M5218L	
elC114	46147700	M5218L	
elC115	46147700	M5218L	
elC116	46147700	M5218L	
elC117	46147700	M5218L	
• Diode			
eD124	46078000	1SS133	
eD125	46078000	1SS133	
eD126	46078000	1SS133	
eD127	46078000	1SS133	
eD128	46078000	1SS133	
eD129	46078000	1SS133	
eD130	46078000	1SS133	
eD131	46078000	1SS133	

Parts No.	Stock No.	Description
eD132	46078000	1SS133
eD133	46078000	1SS133
eD134	46078000	1SS133
eD135	46078000	1SS133
eD136	46078000	1SS133
eD137	46078000	1SS133
eD138	46078000	1SS133
eD139	46078000	1SS133
eD140	46078000	1SS133
eC156	46692700	0.22µF 50V F.C.
eC157	46692700	0.22µF 50V F.C.
eC159	46284600	0.47µF 63V F.C.
eC160	46284600	0.47µF 63V F.C.
eC161	46692700	0.22µF 50V F.C.
eC162	46692700	0.22µF 50V F C
eC163	46692500	0.18µF 50V F.C.
eC164	46692500	0.18µF 50V F.C.
eC165	46692100	0.12µF 50V F.C.
eC166	46692100	0.12µF 50V F.C.
eC171	00304300	10μF 16V E.B.
eC173	46936100	0.15µF 50V E.B.L
eVR109	46839600	10K S.V.R.
eVR110	46839600	10K S.V.R.
eVR111	46839500	4.7K S.V.R.
eVR112	46839500	4.7K S.V.R
eVR113	46839400	2.2K S.V.R
eVR114	46839400	2.2K S.V.R.
eVR115	46839400	2.2K S.V.R.
eVR116	46839500	4.7K S.V.R.
eVR117	46840000	220K S.V.R.

3-8. F-4373 Tuning SW. Circuit Board



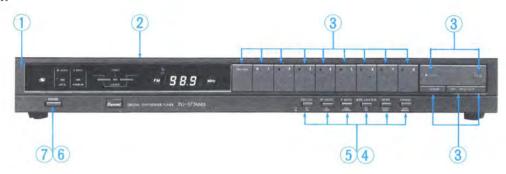


Parts		ı
Parts	1 151	

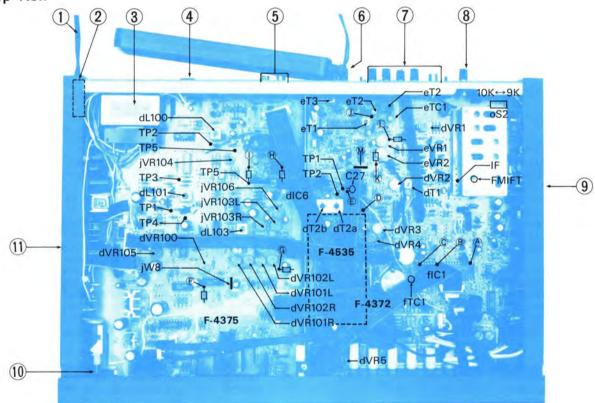
Stock No.	Description
46176900	TLS-123
or 46470200	SEL2210S
46708100	Push SW., UP
46708100	Push SW., DOWN
46708100	Push SW., MEMORY
46708100	Push SW., RESET SCAN
	46176900 or 46470200 46708100 46708100 46708100

4. OTHER PARTS

4-1. Front View



4-2. Top View

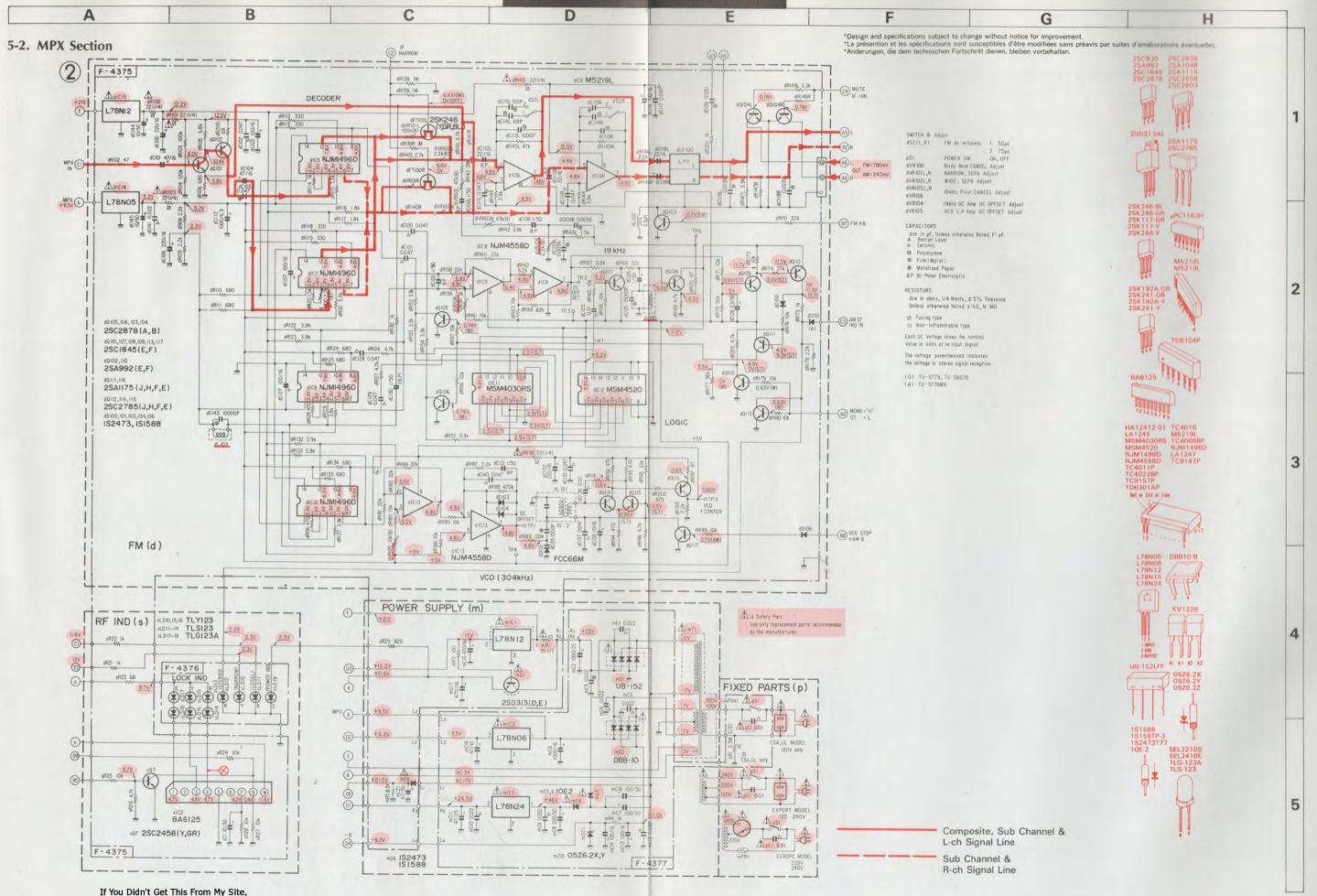


Parts List < Front View>

Parts No.	Stock No.	Description
1	47326100	Front Panel Ass'y
2	47301000	Bonnet
3	46708100	Push SW., FM/AM, MEMORY, DOWN, UP, PRESET STATION, PRESET SCAN
4	47300300	Knob, REC CAL, RF MODE, IF BAND, TUNING, FM MODE, NOISE CANCELLER
5	46725300	Push SW., REC CAL, RF MODE, IF BAND, TUNING, FM MODE, NOISE CANCELLER
6	47324600	Knob, POWER
△ 7	46413900	Push SW., POWER

Parts List < Top View>

Parts No.	Stock No.	Description
∆ 1	38004700	Power Supply Cord (XX, UL, CSA)
2	47163600	AC Cord Cover
A 3	15015501	Power Transformer (XX)
A 4	46364900	AC OUTLET (XX, UL, CSA)
5	46725200	2P OUTPUT Terminal
6	07193200	Antenna Holder
7	46725100	Antenna Terminal
8	22301510	Ground Terminal
9	47326600	Side Panel R Ass'y
10	47300410	Joint Shaft
11	47326400	Side Panel L Ass'y



If You Didn't Get This From My Site, Then It Was Stolen From...

1

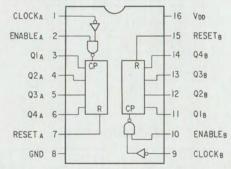
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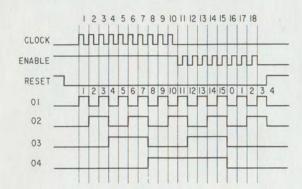
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5

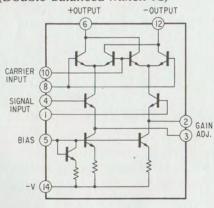
6. INTERIOR BLOCK DIAGRAM OF IC

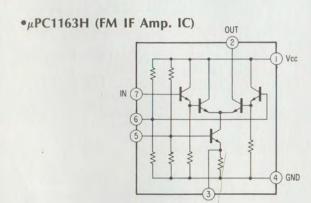
•MSM4520 (Dual Binary Up Counter IC)



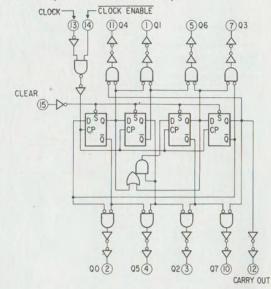


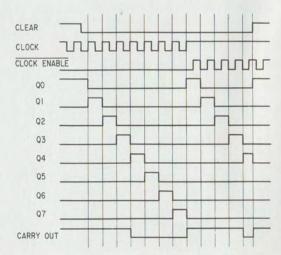
•NJM1496 (Double Balanced Mixen IC)



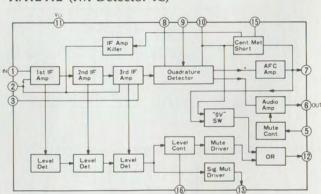


•TC4022BP (8 Count Divider IC)

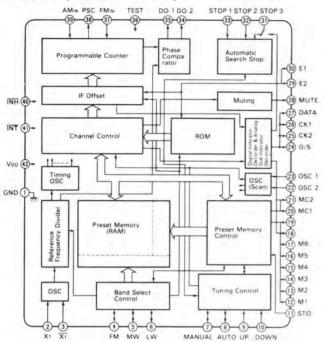




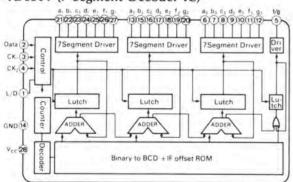
•HA12412 (FM Detector IC)



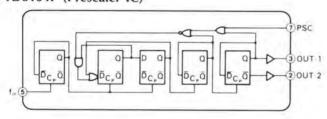
•TC9157P (PLL & Control IC)



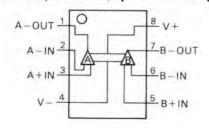
•TD6301 (7-Segment Decoder IC)



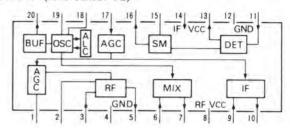
•TD6104P (Prescaler IC)



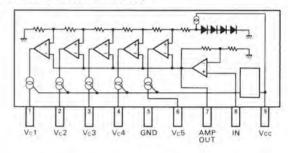
•NJM4558D-X/NJM2043D (Operational Amp.IC)



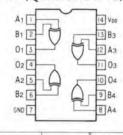
•LA1247 (AM Tuner IC)



•BA6125 (L.E.D. Drive IC)

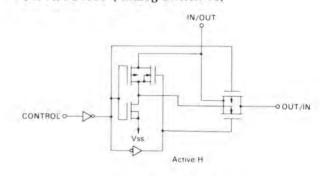


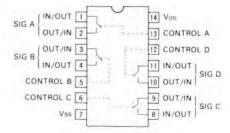
•MSM4030RS (Quad EXOR IC)



A	В	OUT
L	L	L
Н	1	Н
L	H	Н
H	H	L

•TC4016/TC4066 (Analog Switch IC)





7. TERMINAL FUNCTION OF TC-9157P, TD6301P & TD6104

• Terminal Function of LSI-TC9157P

Pin No.	Pin Name	Functions						
2,3	XT XT	Terminals to connect a quartz oscillator for generating a reference frequency.						
4 5 6	FM MW LW	Terminals to input a signal for switching FM/MW/LW band.						
7 8	MANUAL AUTO	Terminal to input a signal for switching the manual operation to automatic search operation or vice versa in the UP/DOWN tuning mode. "H": Automatic, "L": Manual						
9 10	UP DOWN	Terminals to input a signal from the tuning key, * In manual operation: When the key is kept depressed for 0.3 sec or more in one-step/one-push step feeding, the operation changes to fast forwarding; when the key is released, the operation stops at the next stop. In this case, even if there is a station on the way, the station is neglected. * In automatic search operation: When the key is depressed once, the automatic search operation starts and stops automatically after having selected the desired station.						
11	STO	Terminal to input a signal for storing data in the preset memory unit. Input/output terminal in which a LED driver is provided. * When depressing the STO key, the STO lamp comes on. Next, when any desired memory No. key is depressed, the data on receiving frequency is written into the memory unit and the STO lamp goes off. * When the STO key is depressed and the memory No. key is not depressed, the frequency data is released automatically.						
12 17	M1 N6	Terminals to input a signal for designating memory address. Input/output terminals in which a LED driver is provided. * Terminals M ₁ to M ₆ designate the addresses of FM memory unit in FM receiving and the addresses of AM memory unit in AM receiving. * When depressing the STO key and any desired station key of M ₁ to M ₆ , the data is written into the memory unit. * When depressing any desired station key of M ₁ to M ₆ , the data is read out.						
22	OSC 2	Terminal to connect a condenser and resistor for the oscillator for determinating the speed of AM automatic						
23	OSC 1	search operation. Terminal to connect a condenser and resistor for the oscillator for determinating the speed of FM automatic search operation.						
24 25 26 27	0/5 CK2 CK1 DATA	Terminals to output the data for displaying the received frequency digitally and a timing signal. The data fed to the driver TD6301P for displaying a static frequency and the timing signal are outputted once only when the frequency is updated in such case as when the power supply is tuned on, the UP/DOWN key is depressed, the automatic scanning operation is made, the data are read out of the memory unit, or FM/AM is switched. In the ordinary receiving state, this terminal is fixed to a "L" level. * 0/5: For displaying 50 kHz during FM receiving in Europe. * Data: Binary coded frequency data and receiving band. * CK-1, CK-2: Initialize and transfer clock signals.						

Pin No.	Pin Name	Functions						
28	MUTE	Terminal to output the muting signal. The terminal is kept in "L" level in ordinary state, and in "H" leve in muting.						
29 30	E2 E1	Terminals to input a signal for selecting destinations of Japan, USA, and Europe.						
31	STOP 3	When a IF450 kHz signal is applied to this terminal during automatic search operation, the scanning operation stops.						
32	STOP 2	Terminal to input a signal for performing the automatic search stop. When a "H" level signal is applied to STOP 1 and this terminal during automatic search operation, the scanning operation stops.						
33	STOP 1	Terminal to input a signal for slowing the speed of scanning operation. When a "H" level signal is applied to this terminal during automatic search operation, the speed of scanning operation halves.						
34 35	D ₀ -2 D ₀ -1	Terminals to output a signal from a phase compara tor. These terminals can be used for FM and AM separately, since the same signal is outputted from the terminals D ₀ -1 and D ₀ -2 at the same time.						
36	TEST	Terminal to input a signal of test mode. Test mode in "H" level.						
37	FMIN	Terminal to input a signal from the FM programmable counter. An amplifier is provided in the input.						
38	PSC	Terminal to output a signal for controlling the Prescale IC of TD6104P.						
39	AMin	Terminal to input a signal from the AM programmable counter. An amplifier is provided in the input.						
40	INH	Terminal to input a signal of inhibit. Ordinary operation in "H" level; inhibit operation in "L" level.						
41	INT	Terminal to input an initialize signal. This termina changes to H level in the ordinary operation and to L level in the initialize operation.						
42 1	V _{DD} GND	Power supply terminals. $5V \pm 0.5V$.						

Terminal Functions of LSI-TD6301P

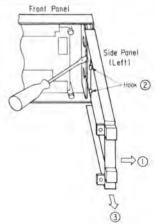
Pin No.	Pin Name	Description of Function and Operation				
1	L/D	Terminal to input a signal for switching the output conditions. The output conditions are switched in accordance with the indicator display (LED, FL, LCD).				
Data Terminal to input the received frequency The data are inputted in series from the s controller TC9140.						
3, 4	CK ₁ , CK ₂	Terminals to input a timing signal for controlling the input of the received frequency data. The timing signal is transferred together with the data from the system controller TC9140.				
5	1/0	Terminal to output a signals for driving the 7-segment display. A digit representing 100MHz in FM receiving and 1000 kHz in AM receiving is displayed. Only one pin is provided because the output is 1 or 0 in FM and AM, respectively.				
6~12	a3~g3	Terminal to output a signal for driving the 7-segment display. A digit representing 10 MHz in FM receiving and 100 kHz in AM receiving is displayed.				
13, 15 ~20	a2~g2	Terminals to output a signal for driving the 7-segment display. A digit representing 1 MHz in FM receiving and 10 kHz in AM receiving is displayed.				
21 ~ 27	a1~g1	Terminal to output a signal for driving the 7-segment display. A digit representing 100 kHz in FM receiving and 1 kHz in AM receiving is displayed.				
14, 28	Vcc. GND	Power supply terminal				

• Terminal Function of LSI-TD6104P

Pin No.	Pin Name	Description of Function and Operation						
2	OUT-2	Terminal to output an inversed signal of terminal OUT-1. An additional resistor is necessary because of an open-emitter circuit. This terminal is kept open in the ordinary state.						
3	OUT-1	open in the ordinary state. Terminal to output a signal obtained by dividing the input signal from the division frequency output terminal fin into 1/30 or 1/32. * Output level: 0.5(V) minimum.						
5	fin	Terminal to input a signal from the FM local os cillator. Frequency range: 60 – 140 MHz Input level: 75 – 300 mVrms						
6	С	Terminal to connect a pass-condenser for the bias circuit. A condenser of 2200 pF is connected between this terminal and ground.						
7	PSC	Terminal to switch the frequency division ratio. Vpsc≥2(V): 1/32 Vpsc≤1(V): 1/30						
1	Vcc	Power supply terminal Vcc = 5V Icc = TYP 5mA, MAX 10mA						
4	GND	Ground						

8. SIDE PANEL L(R) REPLACEMENT

- 1) Remove the bonnet and two screws (a).
- 2) Shift the position of the side panel L(R) 1.5 cm in the arrow direction (1).
- 3) Remove F-4377 circuit board.
- 4) Remove the hooks ② of the side panel from front panel and then pull it to the arrow direction ③ to remove the side panel L(R).
- 5) Remove F-4367 Circuit board.



9. NOTES

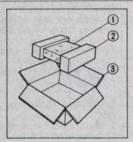
When the user moves to different channel step area on FM or AM, the following arrangements must be performed.

	Sets	Channel Step Frequency		fIC1 Input Port Level		Cross Conductor (F-4372)				9k/10k
	Aplicable to	AM kHz	FM kHz	Eı	Ez	JW18	JW19	JW20	JW21	Switch oS2
	South Africa	9k	50k	L	L	0	0	=	-	None
j	Europe	9k	50k	Н	L	-	0	O	100	None
1	America	9k	100k	L	н	0	9	-	0	None
	America	10k	100k	Н	н	-	-	0	0	None
	Sets which 9k/10k	9k	100k	L	н					9 kHz
II	Switch is instal	10k	100k	Н	н				0	10 kHz

Note: 1) L=Low Level, H=High Level, ○=Connect, —=Remove
2) oS2=AM 9k10k Switch on F-4372
3) Remove the 9k/10 kHz switch only when a user operates the set (II) in 50 kHz channel step (I)

10. PACKING LIST

Parts No.	Stock No.	Description
1	47431100	Vinyl Bag
2	47325700	Styrofoam Packing
3	47430300	Carton Case



11. ACCESSORY LIST

Stock No.	Description
07233600	F-type Connector (Male)
46051700	FM Antenna
46548700	AM Loop Antenna
07193400	Pin Plug Cord
46898000	Operating Instruction

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