

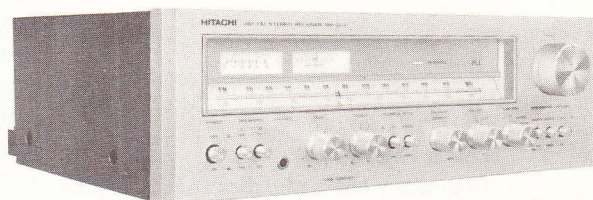
SERVICE MANUAL

English
Français

No. 108



SR-503



SR-603

SPECIFICATIONS

• FM SECTION

Frequency range	88—108 MHz
Usable sensitivity	Mono: 11.2 dBf (2.0 μ V)
50 dB Quieting sensitivity	Mono: 17 dBf (3.9 μ V) Stereo: 37 dBf (39 μ V) () is indicated IHF '58
Signal-to-noise ratio (at 65 dBf)	Mono: 74 dB Stereo: 67 dB
Harmonic distortion (at 65 dBf)	
100Hz	Mono: 0.15% Stereo: 0.3%
1 kHz	Mono: 0.15% Stereo: 0.3%
6 kHz	Mono: 0.2% Stereo: 0.4%
Frequency response	30 Hz—12kHz (+0.2, -1.5 dB)
Image response ratio	50 dB
Spurious response ratio	80 dB
IF response ratio	90 dB
Alternate channel selectivity	60 dB
Capture ratio	1 dB
AM suppression	60 dB
Stereo separation	45 dB (1 kHz)
Sub carrier suppression	60 dB
SCA rejection	60 dB
Muting threshold	21 dBf (6.3 μ V)
Antenna input	300 ohms balanced

• AM SECTION

Frequency range	530—1,605kHz
Sensitivity	250 μ V/m (S/N 20 dB), 15 μ V (IHF, Ext. Antenna)
Image rejection	55 dB
IF rejection	35 dB
Selectivity (IHF)	35 dB
Signal-to-noise ratio	50 dB
Antenna	Ferrite and separate antenna terminal

AM/FM STEREO RECEIVER

January 1977

• AUDIO SECTION

Output

RMS power

(Both channel driven)

20 watts (SR-503), 30 watts (SR-603) per channel, min. RMS, at 8 ohms from 20Hz to 20kHz, with no more than 0.3% total harmonic distortion.

25W/ch + 25W/ch (8 ohms, 1 kHz, T.H.D. 0.3%) (SR-503)

36W/ch + 36W/ch (8 ohms, 1 kHz, T.H.D. 0.3%) (SR-603)

30W/ch + 30W/ch (4 ohms, 1 kHz, T.H.D. 0.3%) (SR-503)

42W/ch + 42W/ch (4 ohms, 1 kHz, T.H.D. 0.3%) (SR-603)

45W/ch + 45W/ch (8 ohms) (SR-503)

50W/ch + 50W/ch (8 ohms) (SR-603)

55W/ch + 55W/ch (4 ohms) (SR-503)

60W/ch + 60W/ch (4 ohms) (SR-603)

Power bandwidth

10 Hz—50 kHz

Frequency characteristics (AUX, TAPE)

20 Hz—20 kHz (± 1 dB)

Harmonic distortion

(at rated output)

Less than 0.3%

(at $\frac{1}{2}$ rated output)

Less than 0.03%

Intermodulation distortion

(at rated output)

Less than 0.3%

(at $\frac{1}{2}$ rated output)

Less than 0.05%

Input sensitivity (Impedance)

(at 22W (SR-503), 32W (SR-603) output, 1 kHz)

PHONO

2.5 mV (47k ohms)

AUX

200 mV (40k ohms)

TAPE-1

200 mV (40k ohms)

TAPE-2

200 mV (40k ohms)

DIN

450 mV (100k ohms)

Output level

200 mV (PHONO, AUX at rated input)

TAPE OUT

300 mV (FM 400 Hz, 30% dev. input. 1 mV)

300 mV (AM 400 Hz, 30% mod. input. 5 mV/m)

DIN OUT

40 mV (PHONO at rated input)

Phono overload level (at 1 kHz)

110 mV

Signal-to-noise ratio

(IHF, A network, rated power)

PHONO

70 dB

AUX

90 dB

TAPE

90 dB

Damping factor

25 (SR-503), 30 (SR-603) (1 kHz, 8 ohms)

Equalizer

RIAA ± 0.3 dB

Bass control

± 10 dB (100 Hz)

Treble control

± 10 dB (10kHz)

Loudness control

+8 dB (100 Hz), +4 dB (10kHz)

High filter (SR-603)

-6 dB at 10kHz

Semi-conductor

1 FET, 4ICs, 14 Transistors and 18 Diodes (SR-503)

1 FET, 4ICs, 18 Transistors and 22 Diodes (SR-603)

Power supply

AC 120V 60Hz

Power consumption

115W or 130VA (SR-503), 145W or 170VA (SR-603)

Dimensions

17 $\frac{1}{8}$ (W) $\times$ 5 $\frac{11}{16}$ (H) $\times$ 14 $\frac{11}{32}$ (D) in.

43.5(W) $\times$ 13.4(H) $\times$ 35.9(D) cm

Weight SR-503

7.6kg (16.7 lbs.)

SR-603

8.0kg (17.6 lbs.)

Specifications and designs may be changed without notice for improvement.

CARACTÉRISTIQUES TECHNIQUES

● Partie FM	Entre parenthèses: IHF '58.
Bande de fréquence	88–108MHz
Sensibilité utilisable	Mono: 11,2 dBf (2,0μV)
Seuil de sensibilité 50 dB	Mono: 17 dBf (3,9μV)
	Stereo: 37 dBf (39μV)
Rapport signal/bruit (65 dBf)	Mono: 74 dB
	Stereo: 67 dB
Distorsion harmonique (65 dBf)	
100Hz	Mono: 0,15%
	Stereo: 0,3%
1 kHz	Mono: 0,15%
	Stereo: 0,3%
6 kHz	Mono: 0,2%
	Stereo: 0,4%
Réponse de fréquence	30 Hz–12 kHz ($\pm 0,2$ dB)
Rapport de sélectivité	50 dB
Rapport de réception non sélective	80 dB
Rapport de réception de moyenne fréquence	90 dB
Sélectivité du canal de rechange	60 dB
Rapport de captage	1 dB
Suppression AM	60 dB
Séparation stéréo	45 dB (1 kHz)
Filtrage de la sous-porteuse	60 dB
Réjection SCA	60 dB
Seul d'élimination des parasites	21 dBf (6,3μV)
Entrée de l'antenne	300 ohms composés
● Partie AM	
Bande de fréquence	530–1.605 kHz
Sensibilité	250μV/m (S/B 20 dB), 15μV (Antenne ext., IHF)
Rejet image	55 dB
Rejet FM	35 dB
Sélectivité (IHF)	35 dB
Rapport signal/bruit	50 dB
Antenne	Borne d'antenne séparée et ferrite
● Partie AUDIO	
Sortie	
Puissance nominale	20W/ch + 20W/ch (8 ohms, 20Hz–20kHz, T.H.D. 0,3%) (SR-503)
	30W/ch + 30W/ch (8 ohms, 20Hz–20 kHz, T.H.D. 0,3%) (SR-603)
	25W/ch + 25W/ch (8 ohms, 1 kHz, T.H.D. 0,3%) (SR-503)
	36W/ch + 36W/ch (8 ohms, 1 kHz, T.H.D. 0,3%) (SR-603)
	30W/ch + 30W/ch (4 ohms, 1 kHz, T.H.D. 0,3%) (SR-503)
	42W/ch + 42W/ch (4 ohms, 1 kHz, T.H.D. 0,3%) (SR-603)
Puissance nominale	45W/ch + 45W/ch (8 ohms) (SR-503)
	50W/ch + 50W/ch (8 ohms) (SR-603)
	55W/ch + 55W/ch (8 ohms) (SR-503)
	60W/ch + 60W/ch (4 ohms) (SR-603)
Sortie bande passante	10Hz–50 kHz
Bande passante (AUX, TAPE)	20Hz–20 kHz (± 1 dB)
Distorsion harmonique	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,03%

Distorsion d'intermodulation	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,05%
Sensibilité d'entrée (impédance)	
(sous 22W (SR-503), 32W (SR-603), 1 kHz de sortie)	
PHONO	2,5 mV (47 k ohms)
AUX	200mV (40 k ohms)
Bande-1	200mV (40 k ohms)
Bande-2	200mV (40 k ohms)
DIN	450mV (100 k ohms)
Bornes de sortie	
TAPE OUT	200mV (PHONO, AUX à l'entrée nominale) 300mV (FM 400Hz, 30% d'entrée dev.: 1mV) 300mV (AM 400Hz, 30% d'entrée mod.: 5mV/m) 40mV (PHONO à l'entrée nominale)
DIN OUT	110mV
Niveau limite phono (à 1 kHz)	
Rapport signal/bruit	
PHONO	70 dB
AUX	90 dB
TAPE	90 dB
Facteur d'atténuation	25 (SR-503), 30 (SR-603) (1 kHz, 8 ohms)
Compensateur	RIAA $\pm 0,3\%$
Basse	± 10 dB (100Hz)
Aigu	± 10 dB (10 kHz)
Sonorité	+8 dB (100Hz), +4 dB (10 kHz)
High filter (SR-603)	-6 dB (10 kHz)
Semi-conductor	1 FET, 4 ICs, 14 Transistors et 18 Diodes (SR-503) 1 FET, 4 ICs, 18 Transistors et 22 Diodes (SR-603)
Alimentation	Secteur 120V (60Hz)
Consommation	115W (SR-503), 145W (SR-603)
Dimensions	17 1/8 (W) x 5 1/16 (H) x 14 1/32 (D) in. 43,5(W) x 13,4(H) x 35,9(D) cm
Poids	SR-503 7,6 kg (16,7 lbs.) SR-603 8,0 kg (17,6 lbs.)

Les caractéristiques techniques et la présentation peuvent être modifiées sans préavis pour des raisons d'améliorations.

FEATURE

Audio Section

1. All-stage Direct-connection Inverted Darlington OCL Amplifier
2. Electronic Protection Circuit (SR-603)
3. New ICs in the Equalizer and Main Amplifier

Tuner Section

1. Dual Gate MOS FET for High Quality FM Tuner

2. High Selectivity and Low Distortion IF Amplifier using a Newly Developed IC and 2 Ceramic Filters
3. Quadrature Detection
4. Phase Lock Loop for FM/MPX Circuit
5. A Ceramic Filter, IC in AM Tuner
6. Two Large Easy-to-read meters (SR-603) and A Large-sized Flywheel Tuning knob

CARACTÉRISTIQUES

Section Audio

1. Amplificateur à circuit Darlington OCL à inversion et à connexion directe pour tous les étages
2. Circuit électronique de protection (SR-603)
3. De nouveaux circuits intégrés dans l'égalisateur et dans l'amplificateur principal

Section Tuner

1. Tuner FM de haut de gamme

2. Amplificateur FI à faible taux de distorsion et haute selectivité employant des circuits intégrés et deux filtres céramiques
3. Détection quadraphonique
4. Boucle à blocage de phase pour le circuit FM/MPX
5. Un filtre céramique, circuit intégré dans le tuner AM
6. Deux mètres à lecture facile et une molette de syntonisation utilisant un volant de large dimension

DISASSEMBLY AND REPLACEMENT · DEMONTAGE ET REEMPLACEMENT

1. REMOVING THE CABINET, FRONT PANEL & BOTTOM PLATE DÉPOSER LE COFFRAGE, LE PANNEAU AVANT ET LA PLAQUE INFÉRIEURE

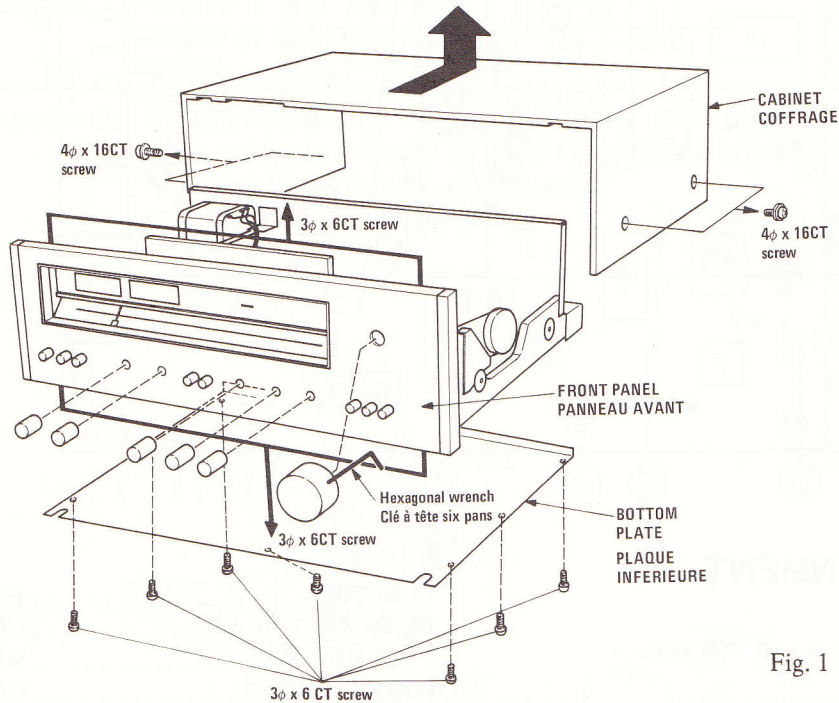


Fig. 1

2. TUNER INPUT METER REPLACEMENT REEMPLACEMENT DU MÉTREUR DE SORTIE DU TUNER

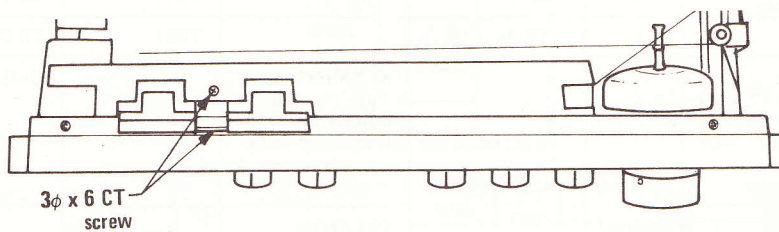


Fig. 2

3. FRONT END, TUNER & MAIN PRINTED WIRING BOARD REMOVAL ENLÈVEMENT DU TABLEAU DU RÉSEAU IMPRIMÉ DU FRONT END, TUNER ET MAIN

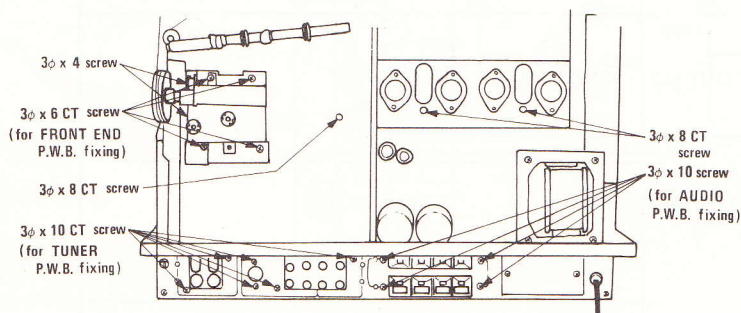


Fig. 3

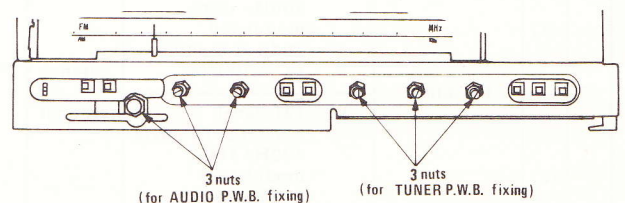


Fig. 4

PROTECTION CIRCUIT (SR-603)

1. MUTING CIRCUIT

(Show the circuit diagram in Fig. 5 at page 7.)

A muting circuit, which turns off the relay for 3–6 sec. after the power switch is turned off, is employed to remove click noise at the start of circuit operation when the power switch is turned ON.

In the Fig. 5, C501 is charged via R502 and R503 when the power switch is turned ON. As a result, voltage is generated between B–E of Q503, and Q503 turns on. When C501 is completely charged, Q503 turns off, Q504 turns on, causing current to flow to the relay and turn the speaker terminal on.

voltage appears at the speaker terminal and may damage the speakers. To prevent this any DC voltage is detected by the filter circuit of R508, C502. When it is (+) voltage, the relay turns off through Q501 ON–Q504 OFF. When the voltage is (–), the relay turns off (same as for (+)) the voltage through Q502 ON Q503 ON Q504 OFF. This circuit naturally assumes its normal condition when DC voltage is no longer detected. Also, when the input terminal is touched or any ultra low frequency noise enters, the speaker input is cut for a short time but is restored automatically.

2. DC VOLTAGE DETECTION CIRCUIT (PROTECTION OF SPEAKER)

In the OCL amplifier, when any trouble occurs, DC

Phenomena and remedy when the protection circuit operates

Type of protection circuit	Phenomenon when the protection circuit operates	Cause	Remedy
1. Muting circuit	About 3–6 sec. after, the power switch is turned on.	—————	Normal
2. Speaker protection circuit	1. Sound do not come out. 2. Neutral point voltage ① is more than $\pm 1.0V$.	Trouble in the main amplifier, etc.	Repair the fault. (Be sure to check that neutral point voltage is within $\pm 150mV$.)

CIRCUIT DE PROTECTION (SR-603)

1. CIRCUIT D'ATTENUATION

Pour ôter le claquement au départ du fonctionnement du circuit lorsqu'on ouvre l'interrupteur général, un circuit de blocage est employé. Il coupe le relais 3 à 6 secs après la fermeture de l'interrupteur général.

Sur le Fig. 5, C501 est mis sous tension par R502 et R503 quand l'interrupteur général est ouvert. Par suite, la tension est produite entre B–E du Q503, et Q503 est ouvert. Quand C501 est complètement mis sous tension, Q503 se ferme, Q504, s'ouvre, faisant passer le courant par le relais et ouvrant la borne du haut-parleur.

2. CIRCUIT DE DÉTECTION DE LA TENSION DC (PROTECTION DU HAUT-PARLEUR)

Quand un trouble survient à l'amplificateur OCL, la tension DC apparaît à la borne du haut-parleur et ceci

peut endommager les haut-parleurs. Un circuit de filtrage R508, C502 détecte la tension DC pour éviter la détérioration. Quand la tension est (+), le relais se ferme par suite de l'ouverture de Q501—fermeture de Q504. Quand la tension est (–) le relais se ferme (même chose que pour le (+)) par suite de l'ouverture de Q502—ouverture de Q503—fermeture de Q504.

Ce circuit entre normalement en fonction quand la tension DC n'est pas trop longue à détecter. Aussi, quand la borne d'entrée du haut-parleur est affectée ou qu'un bruit de fréquence extrêmement basse se produit, l'entrée du haut-parleur est coupée pour un court moment, mais elle est rétablie automatiquement.

Phénomène et remède pendant le fonctionnement du circuit de protection.

Type de circuit de protection	Phénomène pendant le fonctionnement du circuit de protection	Cause	Remède
1. Circuit d'atténuation	Environ 3 à 6 sec. après l'ouverture de l'interrupteur général.	_____	Normal
2. Circuit de protection du haut-parleur	1. Il n'y a pas de son. 2. Le voltage au potentiel de la terre ① est de plus de $\pm 1.0V$.	Il y a des défauts dans l'amplificateur principal, etc.	Réparez les défauts. (Vérifiez que le voltage au potentiel de la terre se trouve dans les limites de $\pm 150mV$.)

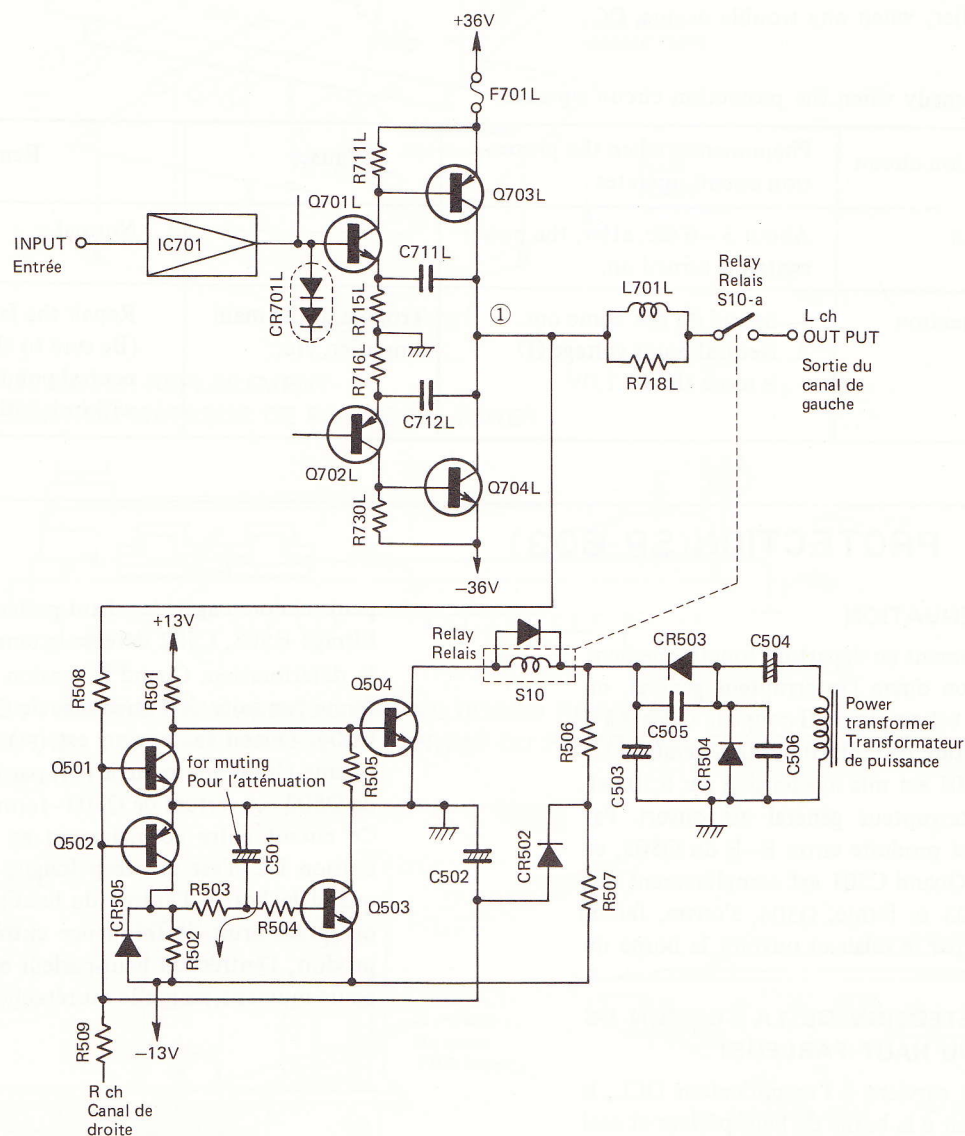


Fig. 5

GENERAL ALIGNMENT INSTRUCTION · INSTRUCTION GENERALE

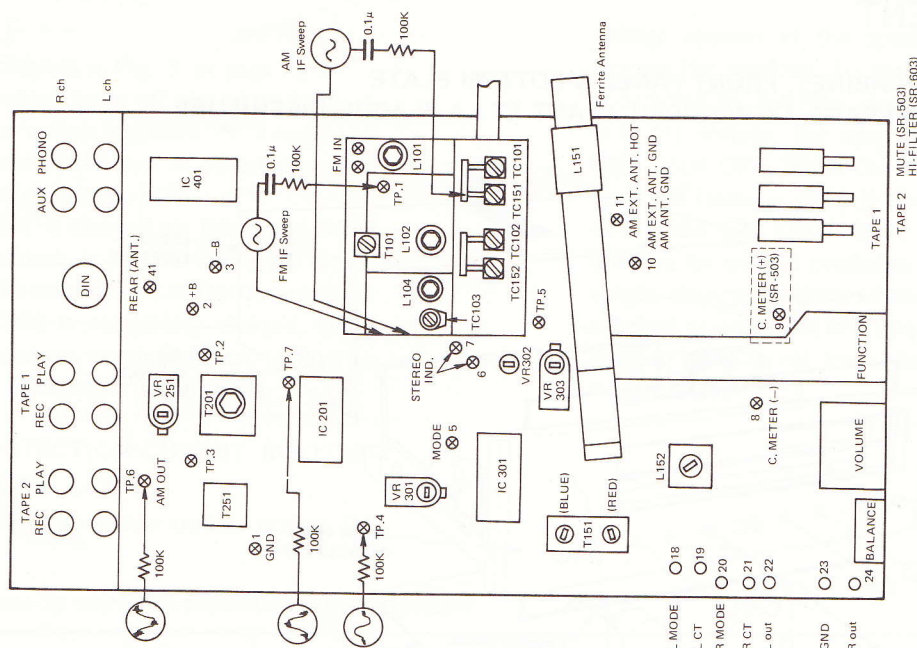


Fig. 6

FM TUNER ALIGNMENT

Test conditions

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION FM
 FM MUTING (SR-503) OFF (pressed in)
 VOLUME Minimum
 POWER ON

Steps	Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1	(1) IF Amplifier	10.7MHz $\pm$ 150kHz Sweep Generator	TP 1	TP 7		T101	CAUTION (1)
	(2) "S" curve		TP 1	TP 4		T201	CAUTION (2)
2	Covering	2.1 FM signal generator 87.5MHz 400Hz 100% modulated, 60dB at input AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	87.5MHz (Turn the dial pointer at low frequency end)	L104	Output Max.
		2.2 FM signal generator 108.5MHz 400Hz 100% modulated, 60dB at input AC voltmeter			108.5MHz (Turn the dial pointer at high frequency end)	TC103	
							Repeat (1) & (2)
3	Tracking	3.1 FM signal generator 90MHz 400Hz 100% modulated, 10dB at input AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	90MHz	L101, L102	Output Max.
		3.2 FM signal generator 106MHz 400Hz 100% modulated, 10dB at input AC voltmeter			106MHz	TC101, TC102	
							Repeat (1) & (2)

Steps	Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
4	Discriminate	FM signal generator 98MHz 400Hz 100% modulated, AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	98MHz	T201 (lower)	Cut the input signal level of FM signal generator and set the pointer of tuning meter to the center mark.
5	Distortion	FM signal generator 98MHz 400Hz 100% modulated, 60dB at input Distortion meter	Antenna terminal	REC OUT (L) or SP OUT (L)	98MHz	T201 (upper)	Adjust T201 so that distortion will become min. CAUTION (3)
6	Output	FM signal generator 98MHz 400Hz 30% modulated, 60dB at input AC voltmeter	Antenna terminal	REC OUT (L)	98MHz	VR301	1V $\pm$ 3dB

CAUTION

- Adjust the core of T101 so that the gain will be max. In this case, reduce the level of the input signal of signal generator so that the waveform will be done shown in Fig. 7.
- Adjust the primary core (lower) of T201 so that the output is like the S curve shown in Fig. 8 with A and B symmetrical with respect to C.
Adjust the secondary core (upper) so that the straight line of the S curve can be achieved.
At the time of adjustment in Caution 1 and 2, center of the marker will sometimes not correspond to that of the waveform because of the ceramic filters used.
- As the result of the adjustment step 5, the best point of Adjustment from step 4 will be shifted a bit. Repeat the adjustment of step 4 and 5 until the deterioration becomes minimum and the pointer of the tuning meter is in its center.

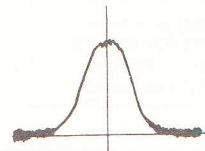


Fig. 7

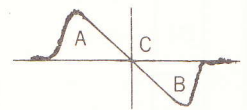


Fig. 8

FM MPX ALIGNMENT**Test conditions**

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION FM
 FM MUTING (SR-503) OFF (Pressed in)
 MODE, STEREO ON
 POWER ON

Steps	Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1	76kHz Free Running Frequency	FM signal generator 98MHz non-modulated 60dB at input AC voltmeter, Frequency counter	Antenna terminal	TP 5	98MHz	VR302	Adjust VR302 so that the counter will indicated 76kHz $\pm$ 100Hz. CAUTION (1)
2	(1) Separation	1. FM signal generator 98MHz, 60dB at input 2. Stereo signal generator Main signal 92% modulated Pilot signal 8% modulated AC voltmeter	Antenna terminal	TAPE OUT (L) or SP OUT (L)	98MHz	VR303	After making the signal of Rch and Pilot, adjust VR303 so that the output wave form of Lch becomes min.
	(2)	3. L.P.F. (13.6kHz)					Optimize VR303 so that the leak level of the Lch signal is equal to that of the Rch signal.

CAUTION

Install the earth terminal of the counter to the frame of the variable capacitor adjacent to T.P. 5.

AM TUNER ALIGNMENT

Test condition

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION AM

POWER ON

Steps	Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1	IF Amplifier	Sweep generator 455kHz	TC151	TP 6		T151	Gain Max. CAUTION (1)
2	Covering	AM signal generator 515kHz 400Hz 30% modulated, 50dB at input AC voltmeter	Ferrite antenna	REC OUT or SP OUT	515kHz (Turn the dial pointer at low frequency level)	L152	Gain Max. CAUTION (2)
		AM signal generator 1650kHz 400Hz 30% modulated, 50dB at input AC voltmeter			1650kHz (Turn the dial pointer at high frequency level)	TC152	
							Repeat (1) and (2)
3	Tracking	AM signal generator 600kHz 400Hz 30% modulated, 50dB at input AC voltmeter	Ferrite antenna	REC OUT or SP OUT	600kHz	Ferrite antenna	Gain Max. CAUTION (2)
		AM signal generator 1400kHz 400Hz 30% modulated, 50dB at input AC voltmeter			1400kHz	TC151	
							Repeat (1) and (2)

CAUTION

- In item 1, set the capacitance of the variable capacitor to minimum and adjust red and blue cores of T151 so that the waveform is as shown in Fig. 9. As T151 contains a 455kHz ceramic filter, sometimes the center of the marker will not correspond to that of the waveform.
In this case, neglect the marker. After adjusting as above, increase the output level of the sweep generator and adjust T151 again so that the top of the waveform A (indicated in Fig. 10) will be flat and wide.
- In items 2 and 3, at the time of first adjustment, set input power at 74dB and adjust obtaining the minimum necessary input power (50dB).

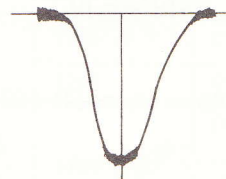


Fig. 9

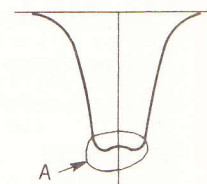


Fig. 10

AUDIO CIRCUIT ALIGNMENT

Test conditions

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION Free
VOLUME Minimum
POWER ON

Carry out the following adjustment 8 minutes after the power switch is turned on.

SR-503

In the SR-503, idle current adjustment is carried out by cutting out the trimming resistor. When Q701L,R, Q702L,R, Q703L,R, Q704L,R or CR701L,R is replaced and

R723L,R, R724L,R, R725L,R or R726L,R is cut out at the same time, carry out the following adjustments after installing these resistors.

Item	Measuring Instrument	Point to be Measured	Value Obtained	Adjust	Value Adjusted
Idle Current	DC voltmeter	Jumper ⑬ : L	15 mV-50 mV		10 mV-60 mV
		Jumper ⑭ : R	less than 15 mV	Cut R723L(R) and R724L(R) off	
		CAUTION (1)	greater than 50 mV	Cut R725L(R) and R726L(R) off	

CAUTION

After separating the jumper wire ⑬ and ⑭, connect the 0.47 ohms resistor, then read the voltage at both ends using a DC voltmeter (Balance meter). Connect the jumper wire again after this adjustment is completed.

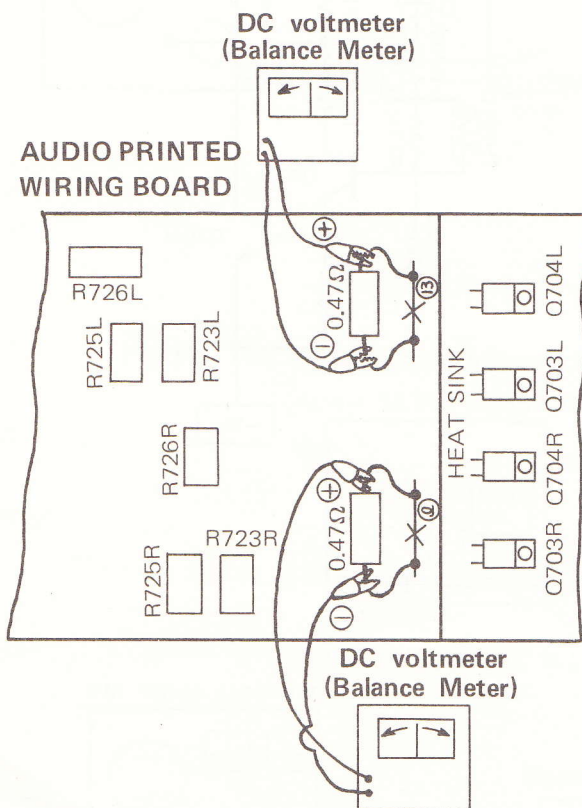


Fig. 11

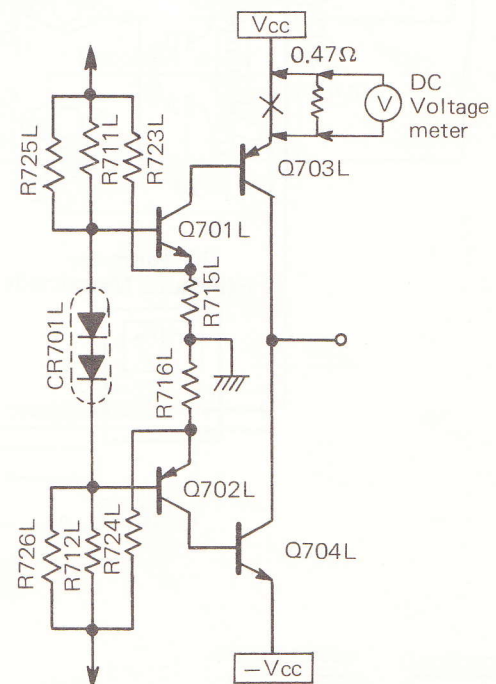


Fig. 12

SR-603

Item	Measuring Instrument	Point to be Measured	Adjust	Value Adjusted
Idle Current	DC voltmeter	F701 L,R CAUTION (1)	VR703 L,R	$20^{+1.5}_{-1.0}$ mV ($40^{+3.0}_{-2.0}$ mA)

CAUTION

Remove the fuse F701L,R, and after connecting the 0.47 ohms resistor, read the voltage at both ends using a DC voltmeter.

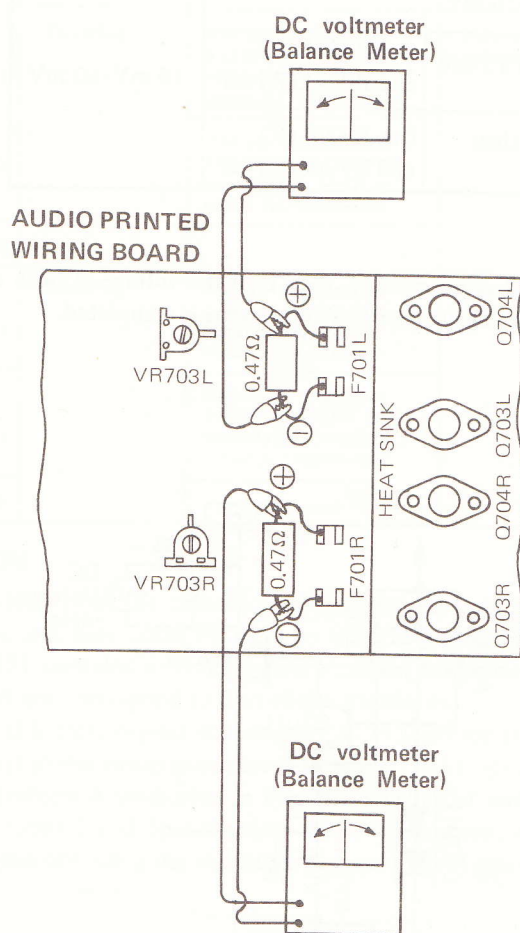


Fig. 13

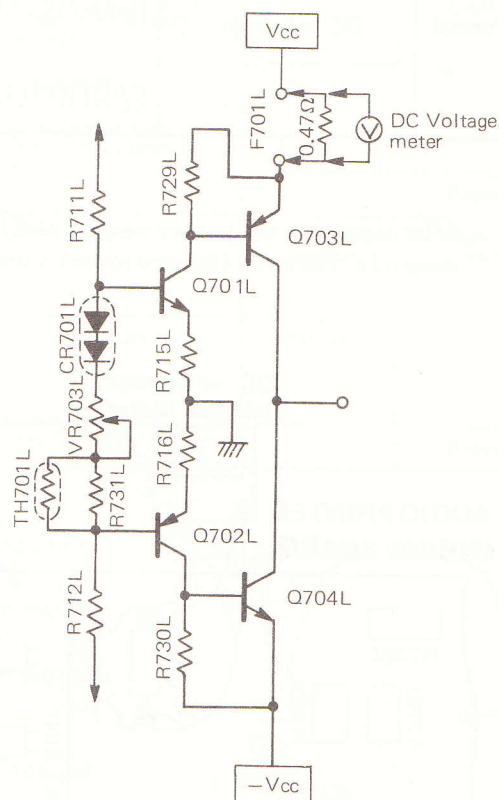


Fig. 14

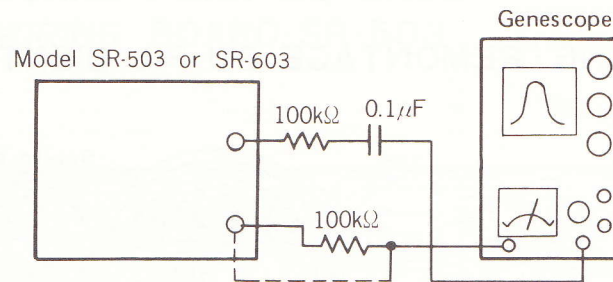


Fig. 15 FM IF Discriminator and AM IF alignments (AM and FM Step. 1)

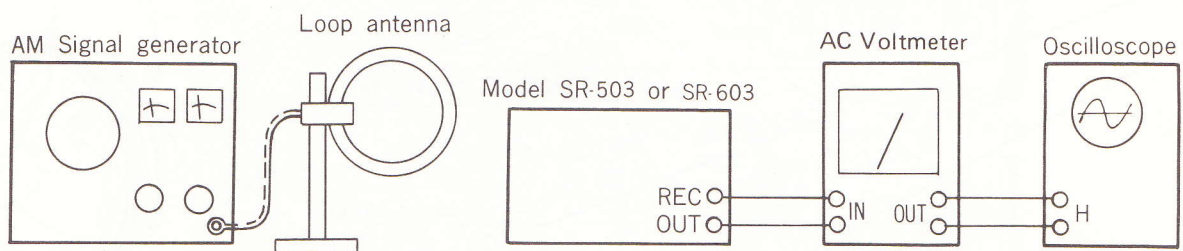


Fig. 16 AM frequency coverage and tracking alignments (Step. 2 and 3)

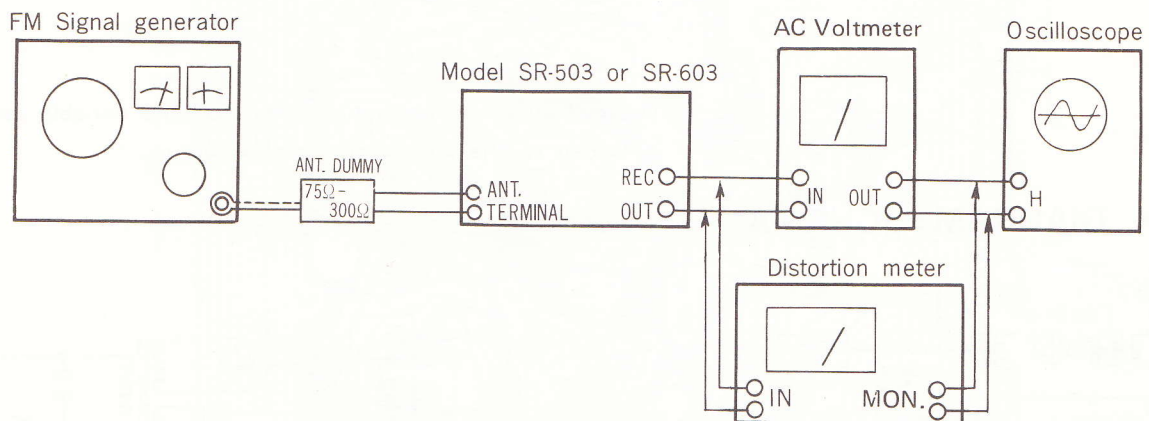


Fig. 17 FM frequency coverage, tracking and other alignments (STEP. 2 to 6)

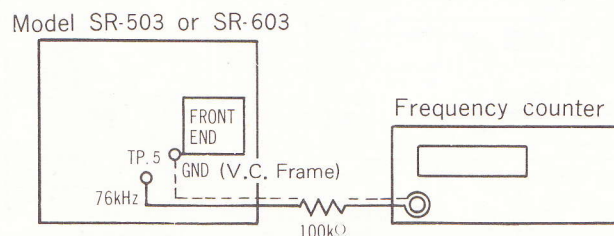


Fig. 18 FM MPX 76 kHz adjustment

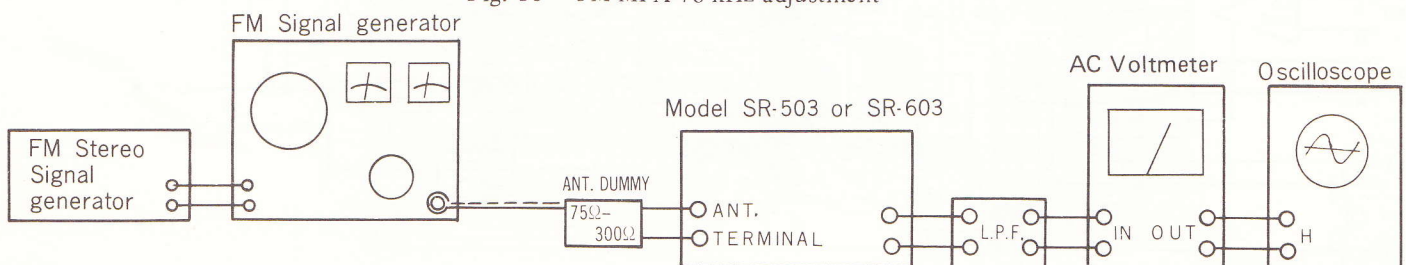
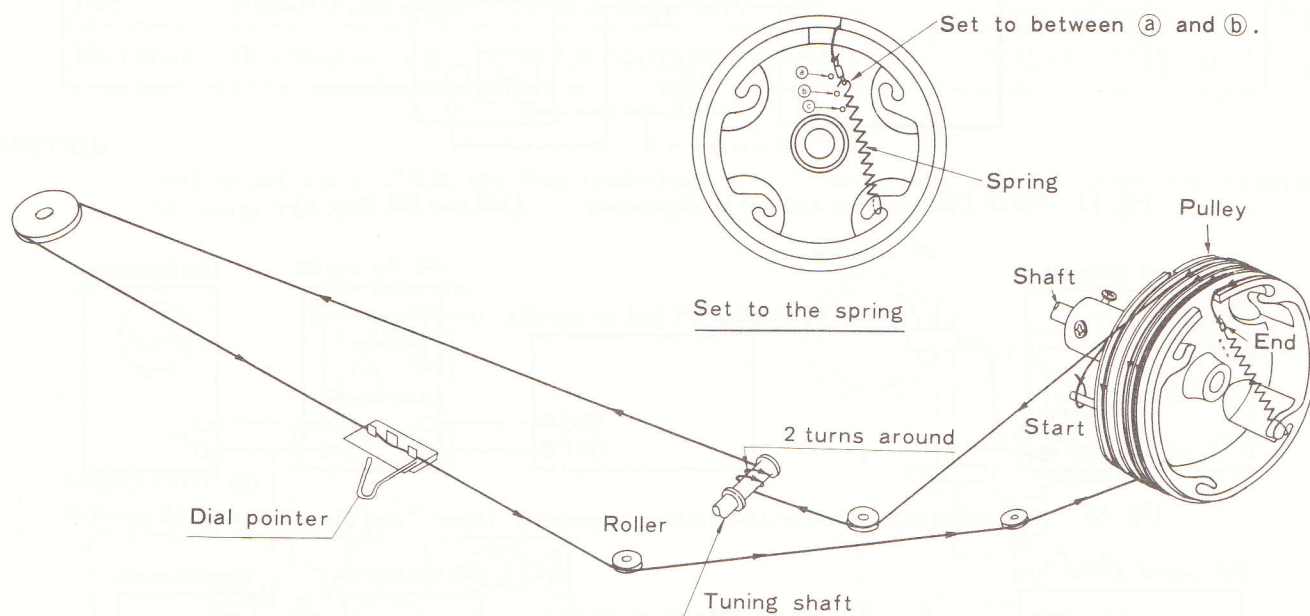


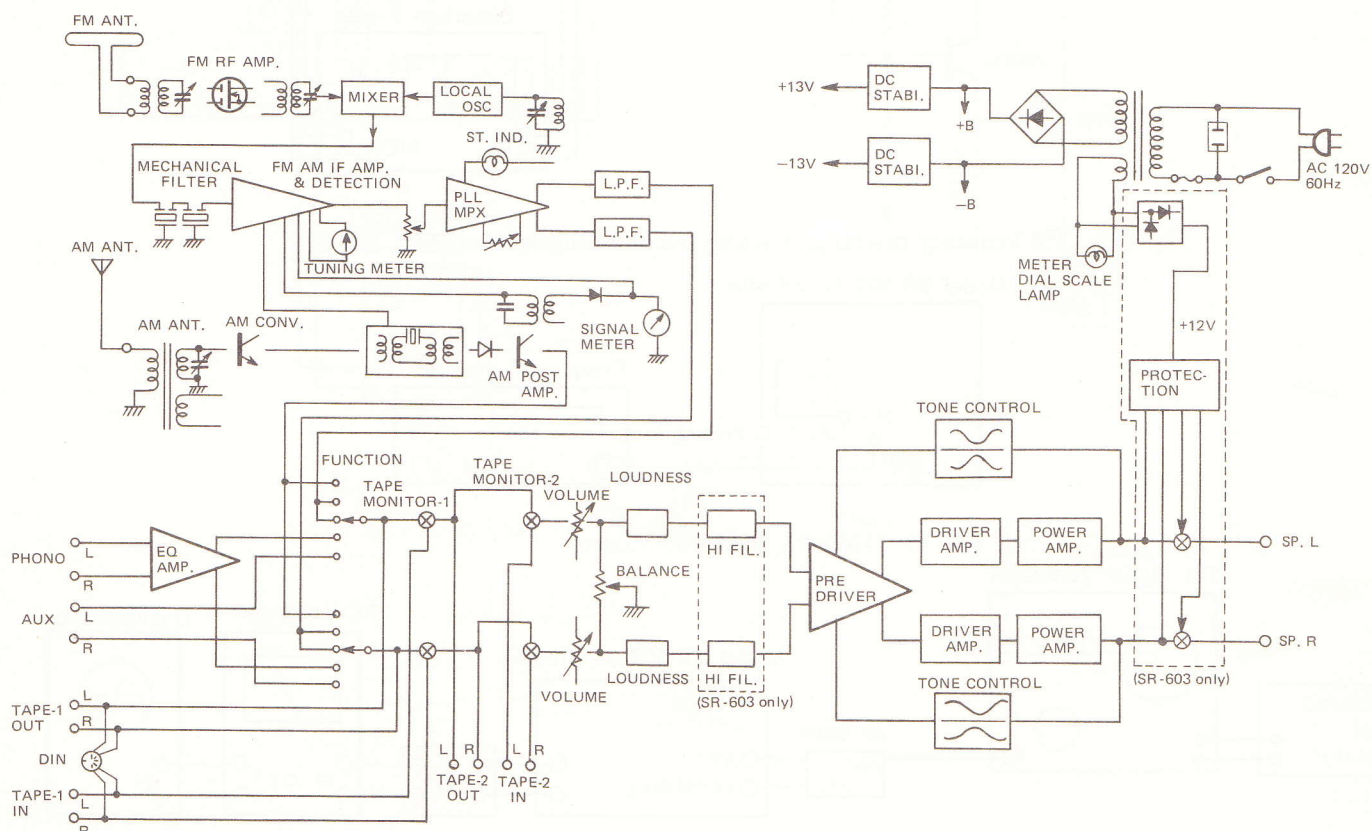
Fig. 19 FM MPX alignments (Step. 2)

DIAL CORD RESTRINGING · REMONTAGE DU FIL D'ENTRAÎNEMENT



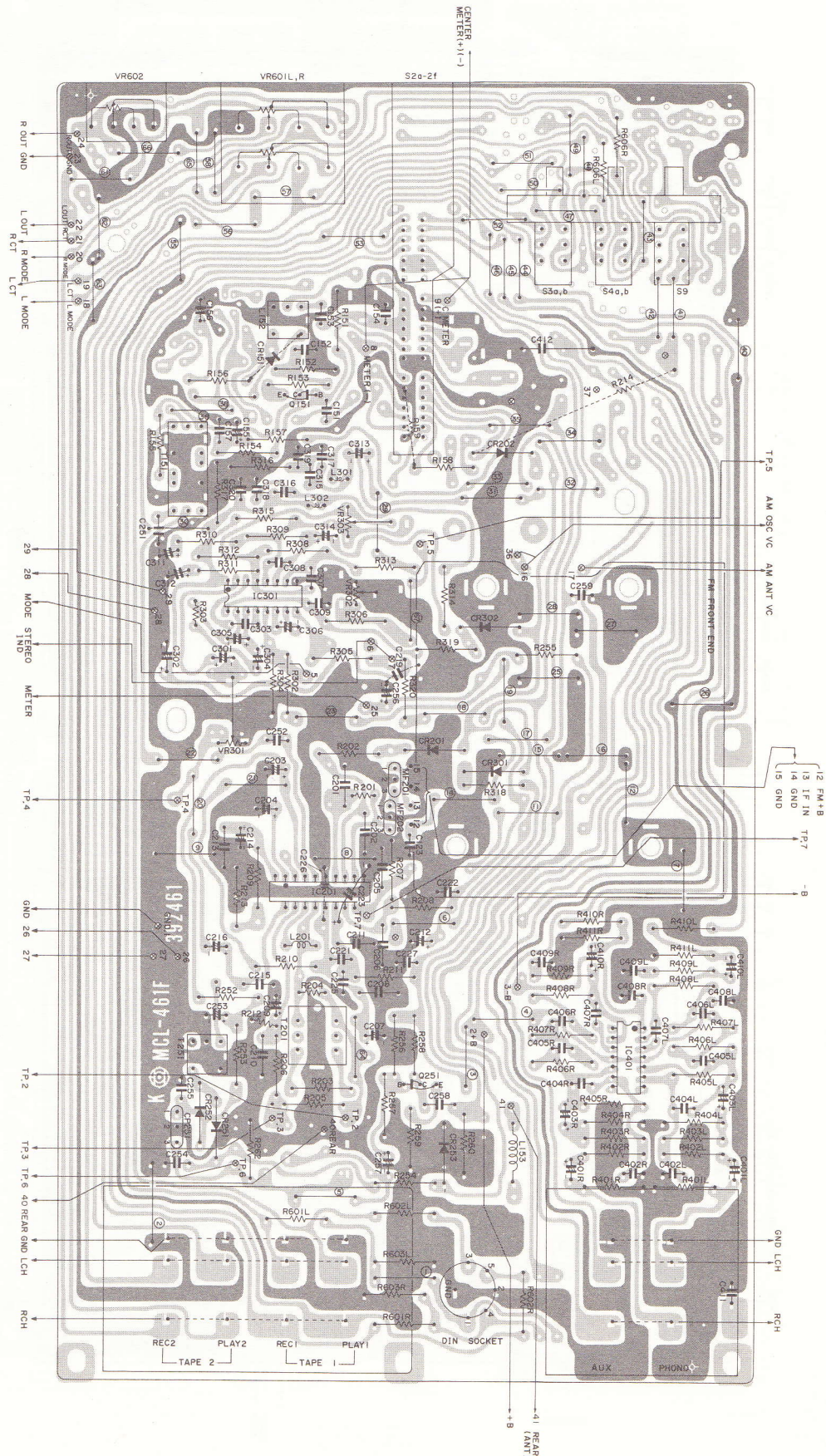
The dial pulley shows the position that the variable condenser is turned to the counterclockwise direction.

BLOCK DIAGRAM · SCHÉMA



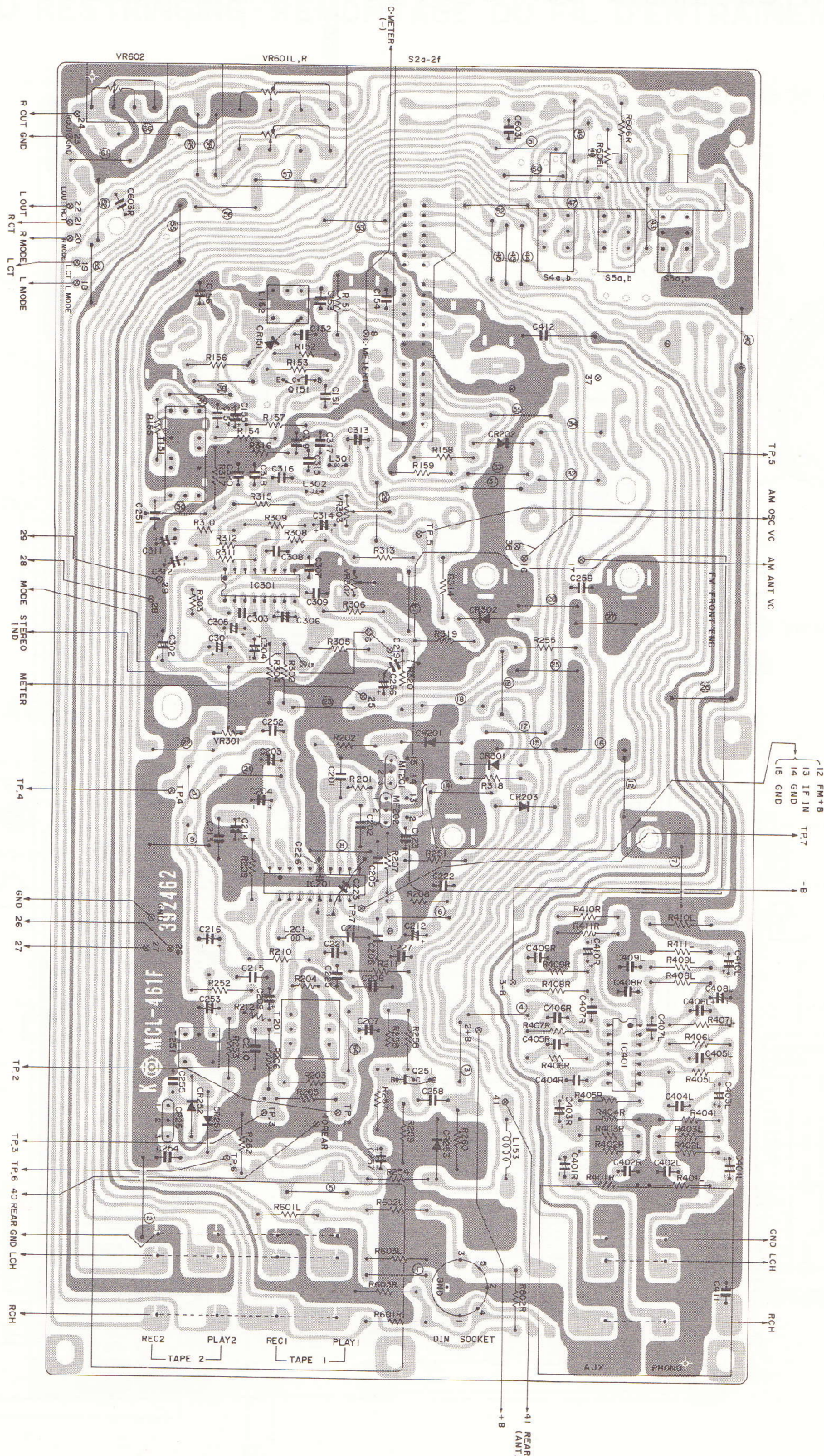
PRINTED WIRING BOARD · PLAN DE BASE
TUNER PRINTED WIRING BOARD (SR-503)

The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.

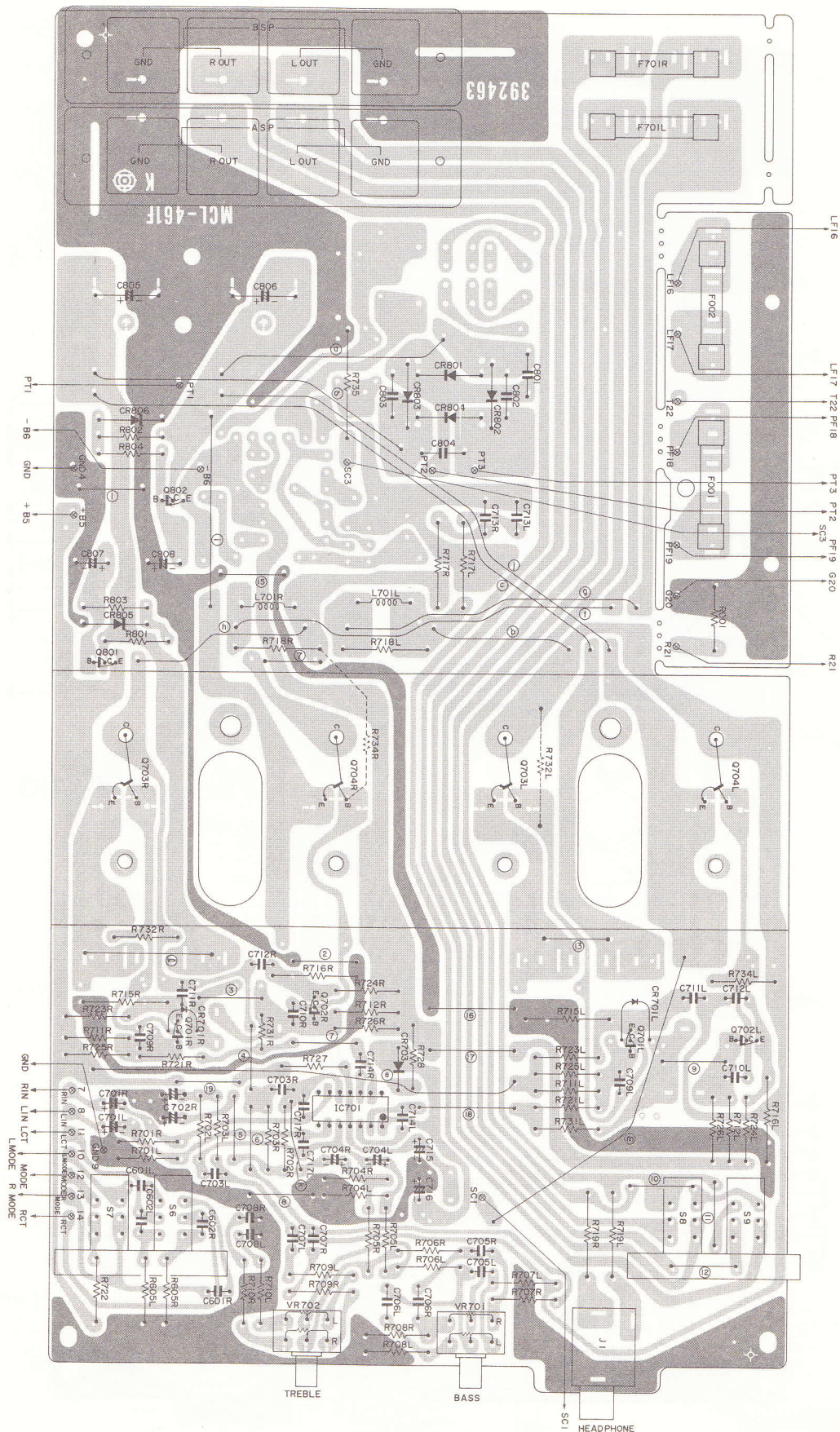


TUNER PRINTED WIRING BOARD (SR-603)

The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.

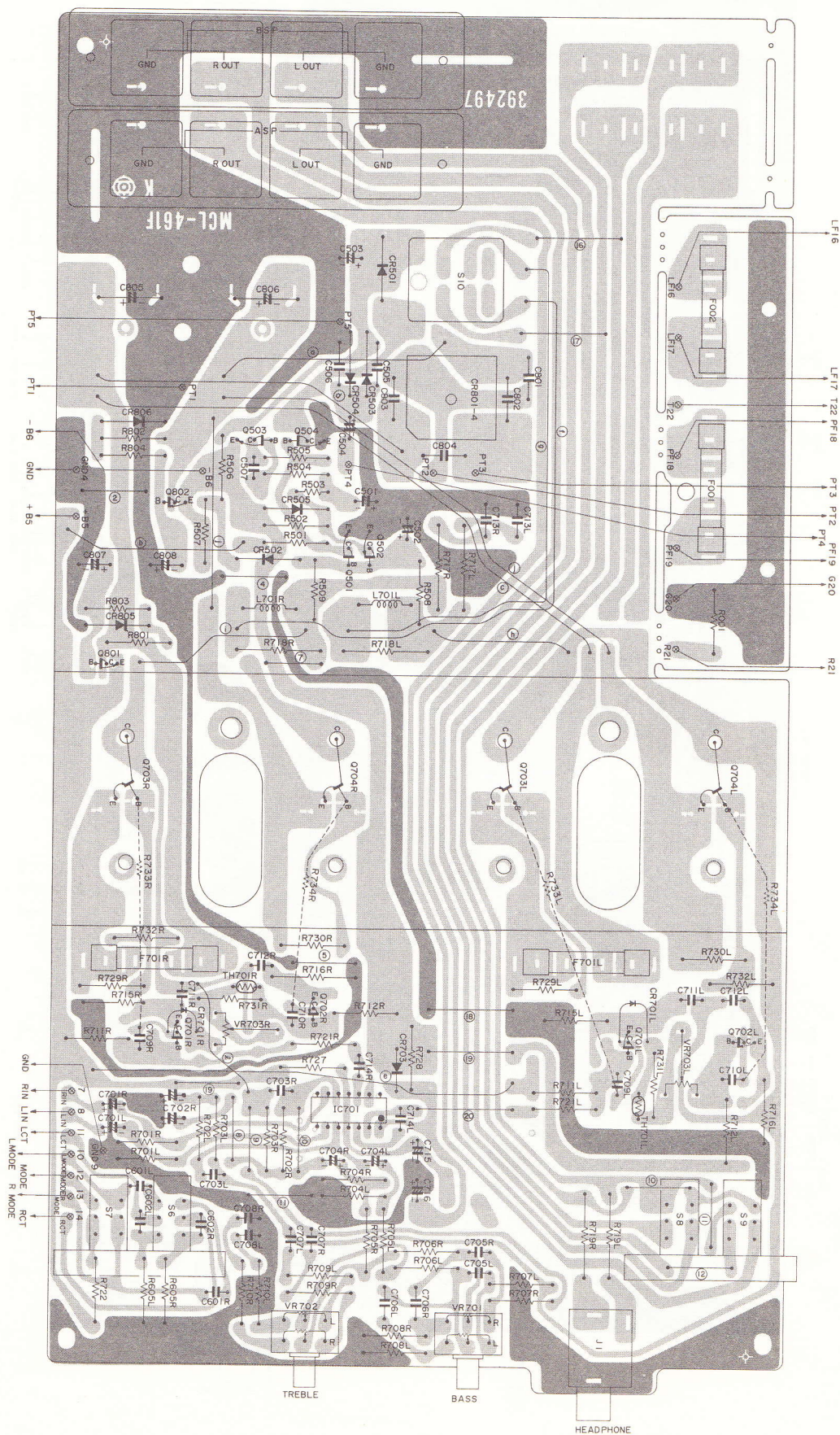


AUDIO PRINTED WIRING BOARD (SR-503)

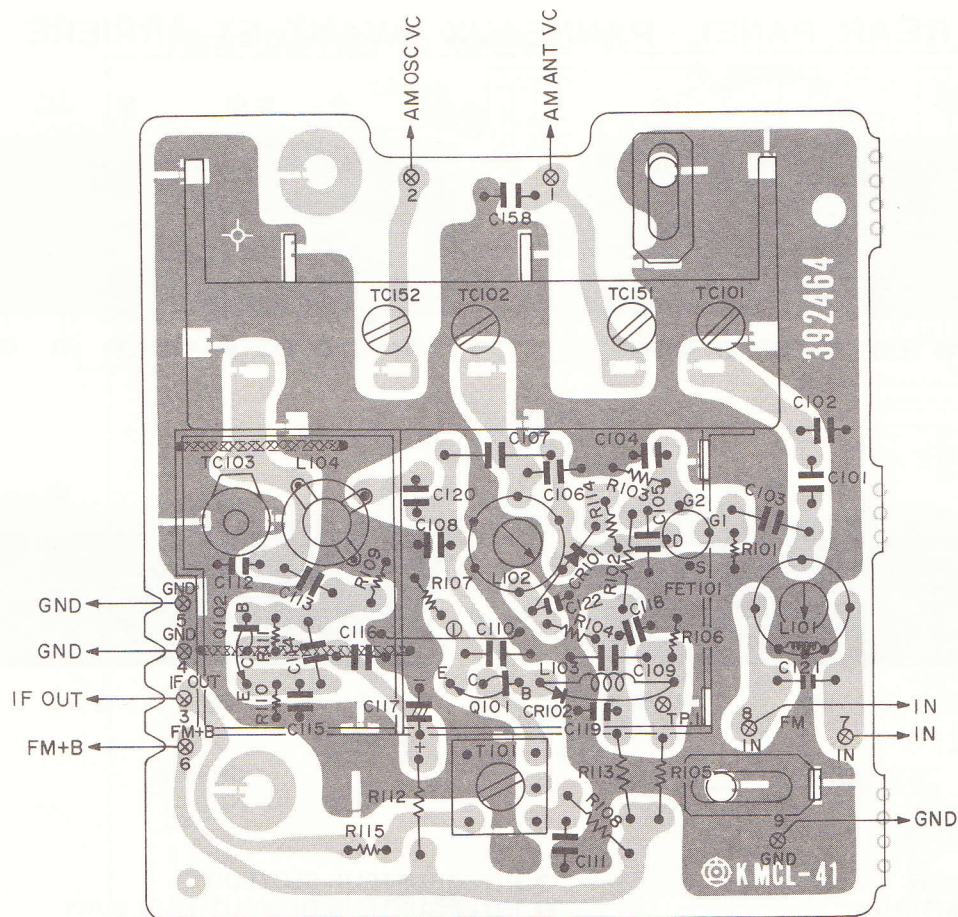


AUDIO PRINTED WIRING BOARD (SR-603)

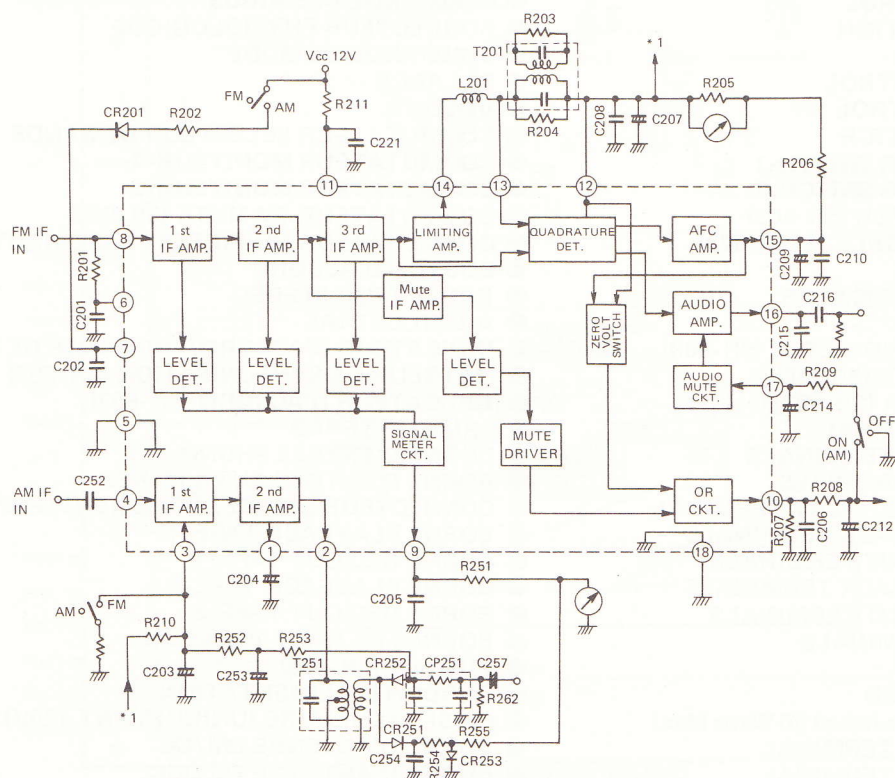
The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.



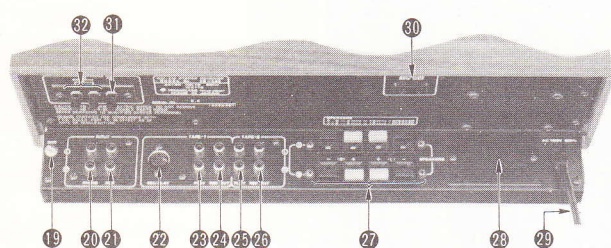
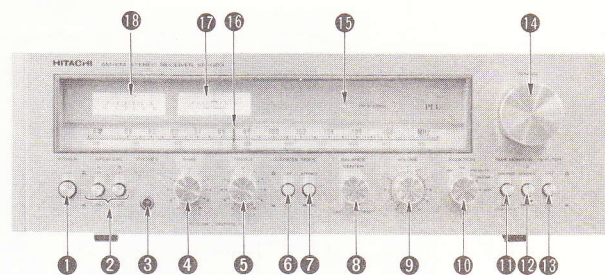
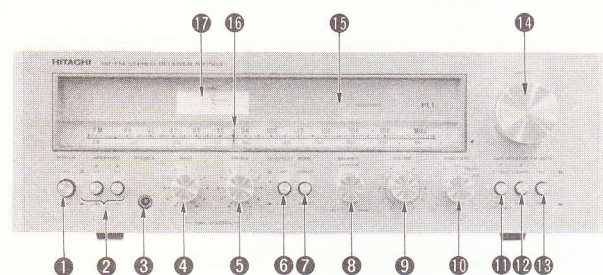
FRONT END PRINTED WIRING BOARD



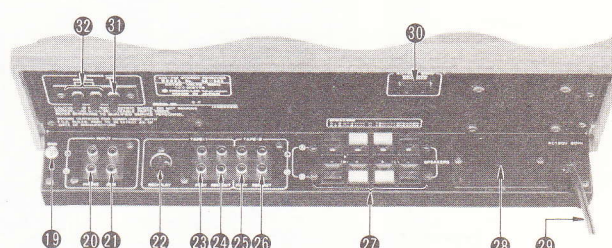
CIRCUIT DIAGRAM HA1211



FRONT AND REAR PANEL · PANNEAUX AVANT ET ARRIERE



SR-503

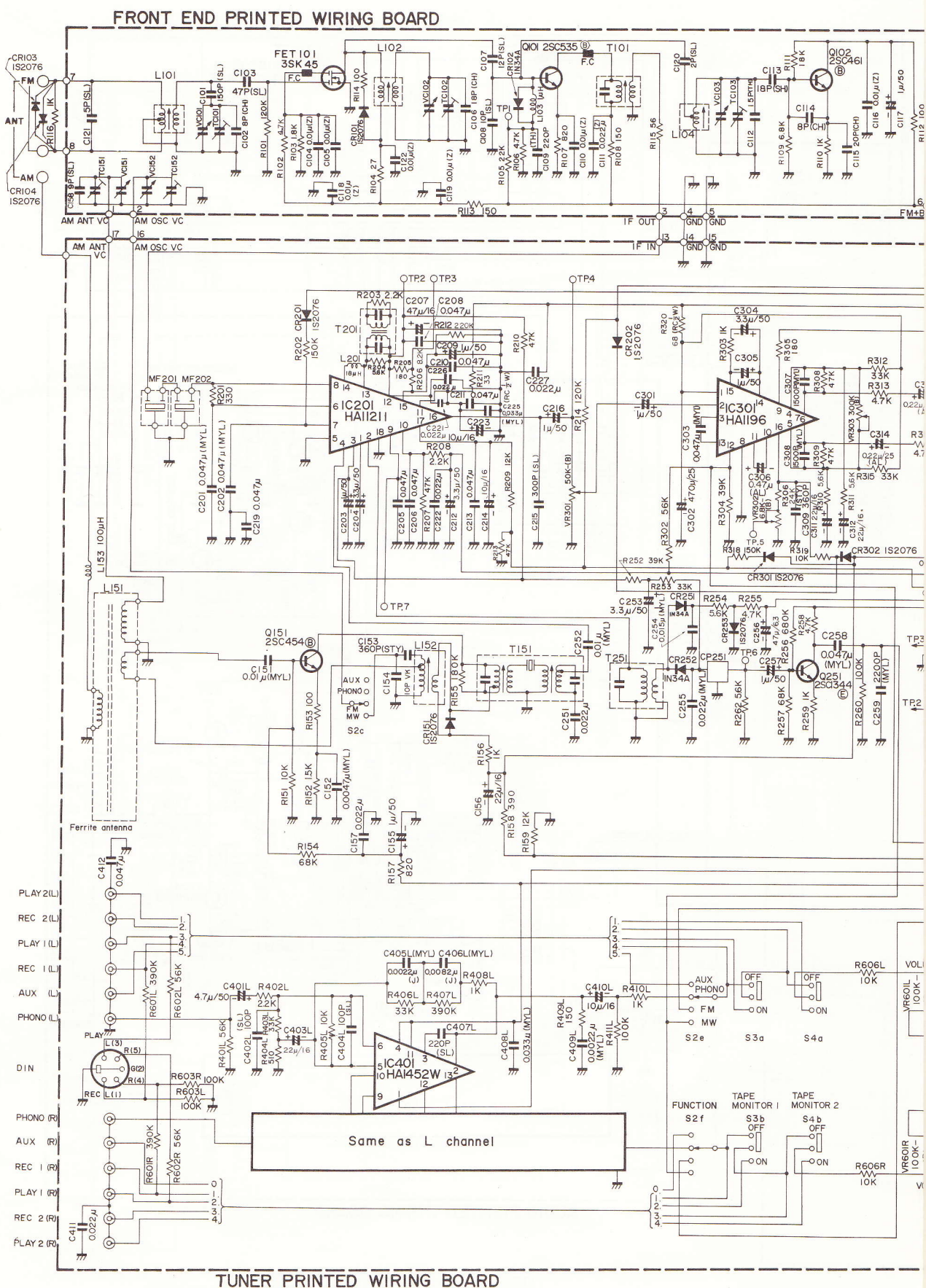


SR-603

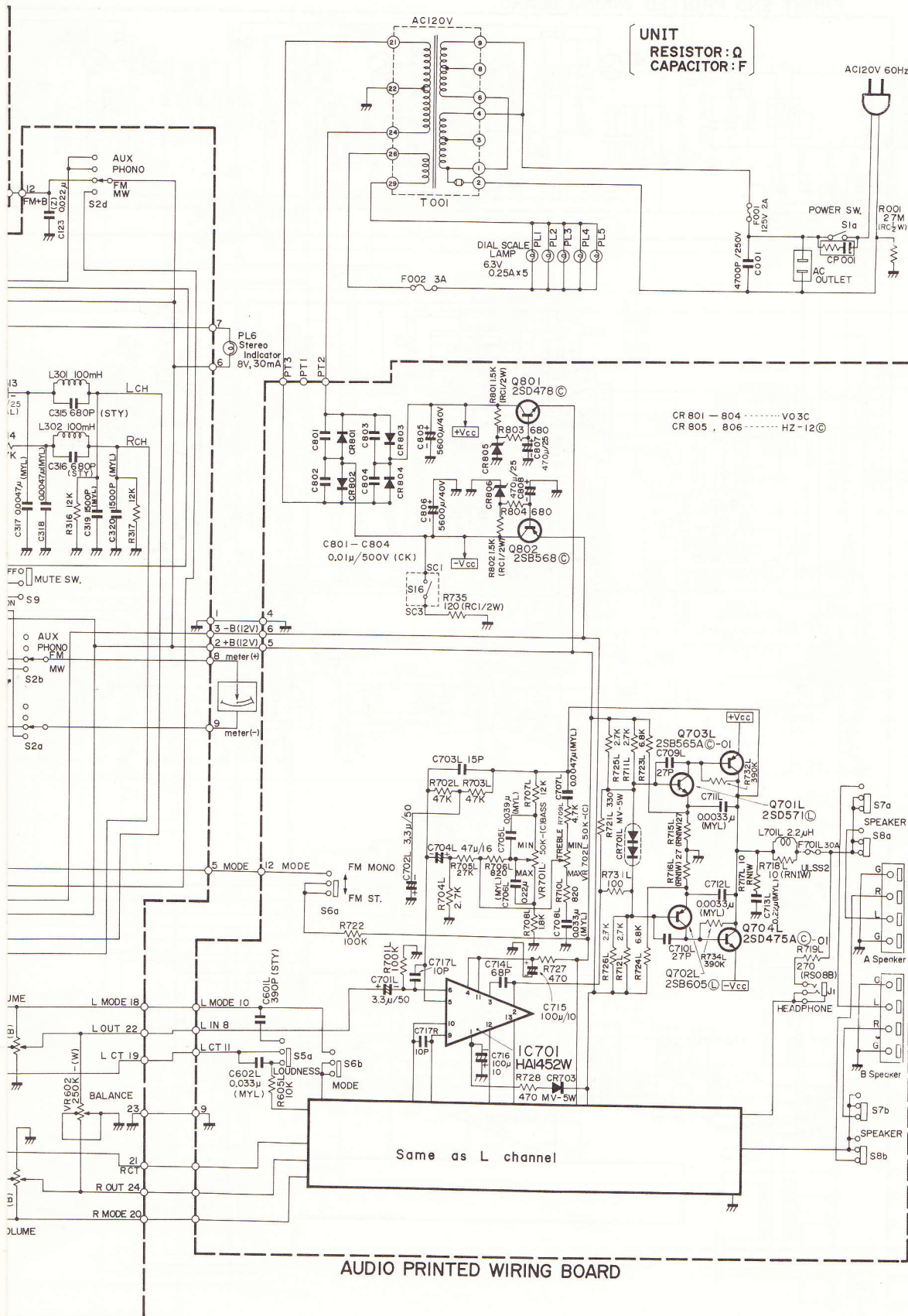
- ① POWER SWITCH
- ② SPEAKER SWITCHES
- ③ PHONES JACK
- ④ BASS CONTROL
- ⑤ TREBLE CONTROL
- ⑥ LOUDNESS SWITCH
- ⑦ MODE SWITCH
- ⑧ BALANCE CONTROL
- ⑨ VOLUME CONTROL
- ⑩ FUNCTION SWITCH
- ⑪ TAPE MONITOR SWITCH-1
- ⑫ TAPE MONITOR SWITCH-2
- ⑬ FM MUTE SWITCH (SR-503)
- ⑭ HIGH FILTER SWITCH (SR-603)
- ⑮ TUNING KNOB
- ⑯ FM STEREO INDICATOR
- ⑰ DIAL POINTER
- ⑱ SIGNAL/TUNING METER (SR-503)
- ⑲ TUNING METER (SR-603)
- ⑳ SIGNAL METER (SR-603)
- ㉑ GROUND TERMINAL
- ㉒ PHONO INPUT TERMINALS
- ㉓ AUX INPUT TERMINALS
- ㉔ TAPE-1 DIN REC/PLAY TERMINAL
- ㉕ TAPE-1 PLAYBACK TERMINALS
- ㉖ TAPE-1 REC OUT TERMINALS
- ㉗ TAPE-2 PLAYBACK TERMINALS
- ㉘ TAPE-2 REC OUT TERMINALS
- ㉙ SPEAKER TERMINALS
- ㉚ FUSE (SR-503)
- ㉛ AC POWER CORD
- ㉜ AC OUTLET (Switched 50 Watts Max)
- ㉝ AM ANTENNA TERMINAL
- ㉞ FM ANTENNA TERMINAL

- ① INTERRUPTEUR SECTEUR
- ② INTERRUPTEUR DE HAUT-PARLEURS
- ③ ECOUTEURS STÉRÉOPHONIQUES
- ④ COMMANDE DE GRAVE
- ⑤ COMMANDE DES AIGUS
- ⑥ CORRECTEUR PHYSIOLOGIQUE
- ⑦ COMMANDE DE MODE
- ⑧ BALANCE
- ⑨ VOLUME
- ⑩ COMMUTATEUR SÉLECTEUR DE BANDE
- ⑪ COMMUTATEUR MONITEUR-1
- ⑫ COMMUTATEUR MONITEUR-2
- ⑬ COMMUTATEUR FM MUTE (SR-503)
- ⑭ COMMUTATEUR DU FILTER PASSE-HAUT (SR-603)
- ⑮ BOUTON D'ACCORD
- ⑯ INDICATEUR STÉRÉO
- ⑰ AIGUILLE DIAL
- ⑱ INDICATEUR D'ACCORD/PUISSANCE DE SIGNAL
- ⑲ MÈTREUR DE SYNTONISATION (SR-603)
- ⑳ INDICATEUR D'ACCORD (SR-603)
- ㉑ PRISE DE TERRE
- ㉒ BORNE D'ENTRÉE PHONO
- ㉓ BORNE D'ENTRÉE AUXILIAIRES
- ㉔ CONNECTEUR D'ENREGISTREMENT/REPRODUCTION DIN
- ㉕ BORNE PLAYBACK TAPE-1
- ㉖ BORNE REC OUT TAPE-1
- ㉗ BORNE PLAYBACK TAPE-2
- ㉘ BORNE REC OUT TAPE-2
- ㉙ BORNES DE HAUT-PARLEUR
- ㉚ FUSIBLE (SR-503)
- ㉛ CORDON D'ALIMENTATION
- ㉜ PRISE AUXILIAIRE (UNIQUEMENT 120V)
- ㉝ BORNE D'ANTENNE OM/OC
- ㉞ BORNE D'ANTENNE FM OUC

CIRCUIT DIAGRAM · PLAN DE CIRCUIT (SR-503)



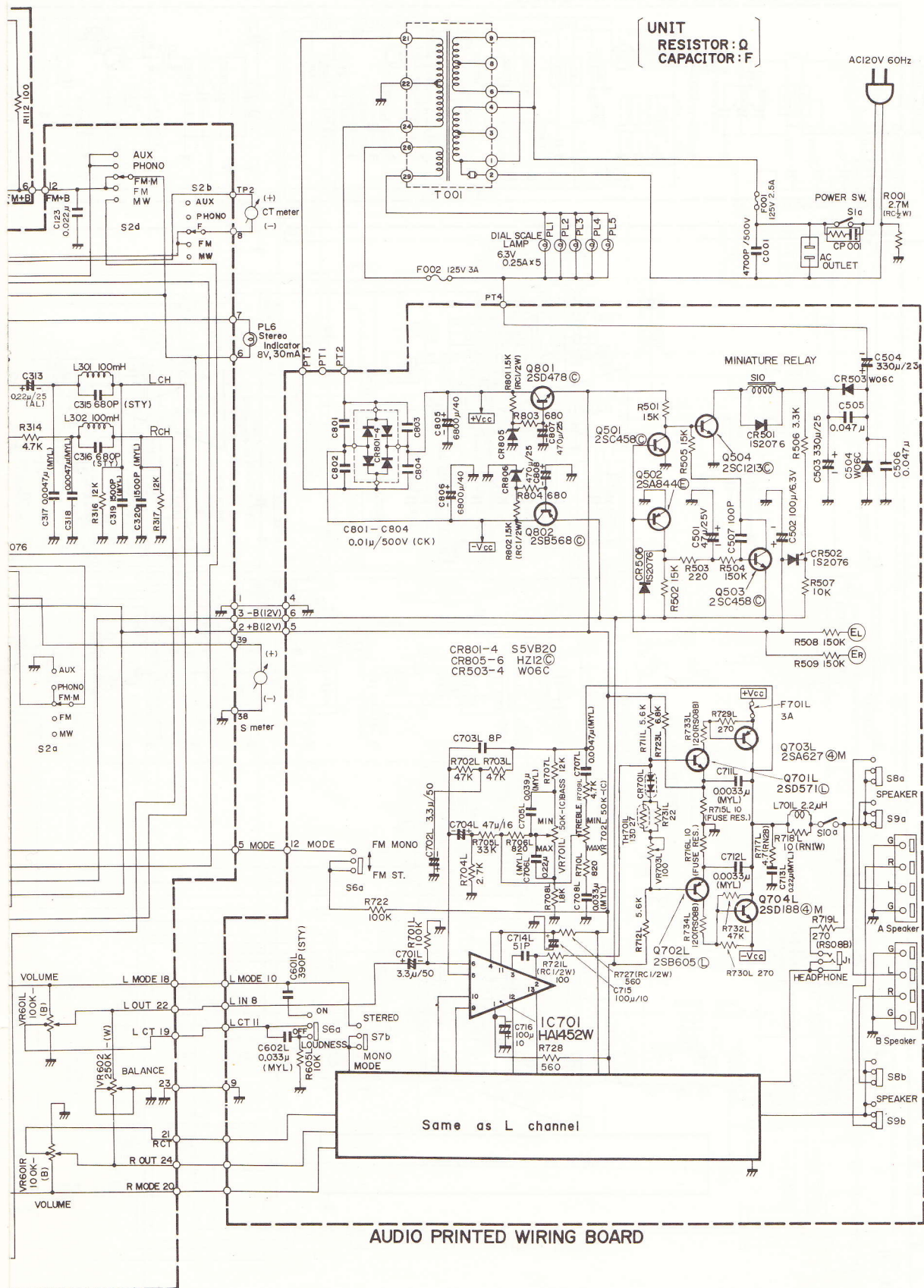
The circuit diagram is subject to change for improvement without notice.



TUNER PRINTED WIRING BOARD

HITACHI SR-503/SR-603

The circuit diagram is subject to change for improvement without notice.



REPLACEMENT PARTS LIST · TABLEAU DES PIÈCE

* marked parts used for SR-503
 ○ marked parts used for SR-603

SYMBOL NO.		STOCK NO.		DESCRIPTION		SYMBOL NO.		STOCK NO.		DESCRIPTION	
CAPACITORS											
for FRONT END PRINTED WIRING BOARD											
C101	0248688	Ceramic, discal	150pF	±5%	50V	C251	0245018	Ceramic, discal	0.022μF	+80% -20%	25V
C102	0246418	Ceramic, discal	8pF	±0.25pF	50V	C252	0275011	Mylar, film	0.01μF	±10%	50V
C103	0248676	Ceramic, discal	47pF	±5%	50V	C253	0252813	Electrolytic	3.3μF		50V
C104	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C254	0275012	Mylar, film	0.015μF	±10%	50V
C105	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C255	0275013	Mylar, film	0.022μF	±10%	50V
C106	0246446	Ceramic, discal	18pF	±5%	50V	C256	0252225	Electrolytic	47μF		6.3V
C107	0248662	Ceramic, discal	12pF	±5%	50V	C257	0252811	Electrolytic	1μF		50V
C108	0248640	Ceramic, discal	10pF	±5pF	50V	C258	0275015	Mylar, film	0.047μF	±10%	50V
C109	0248362	Ceramic, discal	220pF	±5%	50V	C259	0274013	Mylar, film	2200pF	±10%	50V
C110	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C301	0252811	Electrolytic	1μF		50V
C111	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	C302	0252635	Electrolytic	470μF		25V
C112	0248334	Ceramic, discal	15pF	±5%	50V	C303	0275015	Mylar, film	0.047μF	±10%	50V
C113	0248176	Ceramic, discal	18pF	±5%	50V	C304	0252813	Electrolytic	3.3μF		50V
C114	0246418	Ceramic, discal	8pF	±0.25pF	50V	C305	0252811	Electrolytic	1μF		50V
C115	0246447	Ceramic, discal	20pF	±5%	50V	C306	0251975	Electrolytic	0.47μF		25V
C116	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C307	0274012	Mylar, film	1500pF	±10%	50V
C117	0252811	Electrolytic	1μF		50V	C308	0274012	Mylar, film	1500pF	±10%	50V
C118	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C309	0221523	Styrol	360pF	±5%	50V
C119	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C311	0252522	Electrolytic	22μF		16V
C120	0248632	Ceramic, discal	2pF	±0.25pF	50V	C312	0252522	Electrolytic	22μF		16V
C121	0248635	Ceramic, discal	5pF	±0.25pF	50V	C313	0251973	Electrolytic	0.22μF		25V
C122	0245017	Ceramic, discal	0.01μF	+80% -20%	25V	C314	0251973	Electrolytic	0.22μF		25V
C158	0248639	Ceramic, discal	9pF	±0.25pF	50V	C315	0228331	Styrol	680pF	±5%	50V
for TUNER PRINTED WIRING BOARD						C316	0228331	Styrol	680pF	±5%	50V
C123	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	C317	0274315	Mylar, film	4700pF	±10%	50V
C151	0275011	Mylar, film	0.01μF	±10%	50V	C318	0274315	Mylar, film	4700pF	±10%	50V
C152	0274315	Mylar, film	4700pF	±10%	50V	C319	0274012	Mylar, film	1500pF	±10%	50V
C153	0228324	Styrol	360pF	±5%	50V	C320	0274012	Mylar, film	1500pF	±10%	50V
C154	0241882	Ceramic, discal	10pF	±1pF	50V	C401(L,R)	0252815	Electrolytic	4.7μF		50V
C155	0252811	Electrolytic	1μF		50V	C402(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
C156	0252522	Electrolytic	22μF		16V	* C403(L,R)	0252522	Electrolytic	22μF		16V
C157	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	○ C403(L,R)	0252525	Electrolytic	47μF		16V
C201	0275015	Mylar, film	0.047μF	±10%	50V	C404(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
C202	0275015	Mylar, film	0.047μF	±10%	50V	C405(L,R)	1274213	Mylar, film	2200pF	±5%	50V
C203	0252811	Electrolytic	1μF		50V	C406(L,R)	1274236	Mylar, film	8200pF	±5%	50V
C204	0252813	Electrolytic	3.3μF		50V	C407(L,R)	0248732	Ceramic, discal	220pF	±10%	50V
C205	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	* C408(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C206	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	○ C408(L)	0252623	Electrolytic	33μF		25V
C207	0252525	Electrolytic	47μF		16V	○ C408(R)	0275014	Mylar, film	0.033μF	±10%	50V
C208	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	C409(L,R)	0274013	Mylar, film	2200pF	±10%	50V
C209	0252811	Electrolytic	1μF		50V	C410(L,R)	0252521	Electrolytic	10μF		16V
C210	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	C411	0245018	Ceramic, discal	0.022μF	+80% -20%	25V
C211	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	C412	0244175	Ceramic, discal	0.047μF	+80% -20%	25V
C212	0252813	Electrolytic	3.3μF		50V	○ C603(L,R)	0274014	Mylar, film	3300pF	±10%	50V
C213	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	for AUDIO PRINTED WIRING BOARD					
C214	0252521	Electrolytic	10μF		16V	○ C501	0252625	Electrolytic	47μF		25V
C215	0248695	Ceramic, discal	300pF	±5%	50V	○ C502	0252231	Electrolytic	100μF		6.3V
C216	0252811	Electrolytic	1μF		50V	○ C503	0252633	Electrolytic	330μF		25V
C219	0244175	Ceramic, discal	0.047μF	+80% -20%	25V	○ C504	0252633	Electrolytic	330μF		25V
C221	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	○ C505	0244175	Ceramic, discal	0.047μF	+80% -20%	50V
C222	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	○ C506	0244175	Ceramic, discal	0.047μF	+80% -20%	50V
C223	0252521	Electrolytic	10μF		16V	○ C507	0248724	Ceramic, discal	100pF	±10%	50V
C225	0275014	Mylar, film	0.033μF	±10%	50V	C601(L,R)	0228325	Styrol	390pF	±5%	50V
C226	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	C602(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C227	0245018	Ceramic, discal	0.022μF	+80% -20%	25V	C701(L,R)	0252813	Electrolytic	3.3μF		50V
						C702(L,R)	0252813	Electrolytic	3.3μF		50V
						* C703(L,R)	0248664	Ceramic, discal	15pF	±5%	50V
						○ C703(L,R)	0248648	Ceramic, discal	8pF	±5%	50V
						C704(L,R)	0252525	Electrolytic	47μF		16V
						C705(L,R)	0275034	Mylar, film	0.039μF	±10%	50V
						C706(L,R)	0276013	Mylar, film	0.22μF	±10%	50V
						C707(L,R)	0274315	Mylar, film	4700pF	±10%	50V

HITACHI SR-503/SR-603

SYMBOL NO.		STOCK NO.	DESCRIPTION				SYMBOL NO.	STOCK NO.	DESCRIPTION			
C708(L,R)	0275014	Mylar, film	0.033μF	±10%	50V	R212	0138209	Carbon film	220kΩ	±5%	SRD¼SD	
C709(L,R)	0248710	Ceramic, discal	27pF	±10%	50V	* R213	0114217	Carbon film	47kΩ	±5%	SRD¼P	
C710(L,R)	0248710	Ceramic, discal	27pF	±10%	50V	* R214	0114283	Carbon film	120kΩ	±5%	SRD¼P	
C711(L,R)	0274014	Mylar, film	3300pF	±10%	50V	○ R251	0114209	Carbon film	22kΩ	±5%	SRD¼P	
C712(L,R)	0274014	Mylar, film	3300pF	±10%	50V	R252	0114215	Carbon film	39kΩ	±5%	SRD¼P	
C713(L,R)	0276013	Mylar, film	0.22μF	±10%	50V	R253	0114213	Carbon film	33kΩ	±5%	SRD¼P	
* C714(L,R)	0248720	Ceramic, discal	68pF	±10%	50V	* R254	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	
○ C714(L,R)	0248507	Mylar, film	51pF	±10%	50V	○ R254	0114173	Carbon film	3.3kΩ	±5%	SRD¼P	
C715	0252331	Electrolytic	100μF		10V	* R255	0114177	Carbon film	4.7kΩ	±5%	SRD¼P	
C716	0252331	Electrolytic	100μF		10V	○ R255	0114167	Carbon film	1.8kΩ	±5%	SRD¼P	
* C717(L,R)	0248650	Ceramic, discal	10pF	±5%	50V	R256	0114301	Carbon film	680kΩ	±5%	SRD¼P	
C801	0245408	Ceramic, discal	0.01μF	±20%	500V	R257	0114221	Carbon film	68kΩ	±5%	SRD¼P	
C802	0245408	Ceramic, discal	0.01μF	±20%	500V	R258	0114177	Carbon film	4.7kΩ	±5%	SRD¼P	
C803	0245408	Ceramic, discal	0.01μF	±20%	500V	* R259	0114161	Carbon film	1kΩ	±5%	SRD¼P	
C804	0245408	Ceramic, discal	0.01μF	±20%	500V	○ R259	0114153	Carbon film	820Ω	±5%	SRD¼P	
* C805	0250491	Electrolytic	5600μF		40V	R260	0114281	Carbon film	100kΩ	±5%	SRD¼P	
○ C805	0250488	Electrolytic	6800μF		40V	R262	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	
* C806	0250491	Electrolytic	5600μF		40V	R302	0114219	Carbon film	56kΩ	±5%	SRD¼P	
○ C806	0250488	Electrolytic	6800μF		40V	R303	0138121	Carbon film	1kΩ	±5%	SRD¼SD	
C807	0252635	Electrolytic	470μF		25V	R304	0114215	Carbon film	39kΩ	±5%	SRD¼P	
C808	0252635	Electrolytic	470μF		25V	R305	0114137	Carbon film	180Ω	±5%	SRD¼P	
for REAR PLATE ASSEMBLY						R306	0110820	Metal	24kΩ	±1%	RN¼B	
C001	0243873	Ceramic, discal	4700pF	±80% ±20%	500V	R308	0114217	Carbon film	47kΩ	±5%	SRD¼P	
RESISTORS						R309	0114217	Carbon film	47kΩ	±5%	SRD¼P	
for FRONT END PRINTED WIRING BOARD						R310	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	
R101	0138203	Carbon film	120kΩ	±5%	SRD¼SD	R311	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	
R102	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD	R312	0114213	Carbon film	33kΩ	±5%	SRD¼P	
R103	0138127	Carbon film	1.8kΩ	±5%	SRD¼SD	R313	0114177	Carbon film	4.7kΩ	±5%	SRD¼P	
R104	0138051	Carbon film	27Ω	±5%	SRD¼SD	R314	0114177	Carbon film	4.7kΩ	±5%	SRD¼P	
R105	0138169	Carbon film	22kΩ	±5%	SRD¼SD	R315	0114213	Carbon film	33kΩ	±5%	SRD¼P	
R106	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD	R316	0114203	Carbon film	12kΩ	±5%	SRD¼P	
R107	0138103	Carbon film	820Ω	±5%	SRD¼SD	R317	0114203	Carbon film	12kΩ	±5%	SRD¼P	
R108	0138085	Carbon film	150Ω	±5%	SRD¼SD	R318	0114285	Carbon film	150kΩ	±5%	SRD¼P	
R109	0138141	Carbon film	6.8kΩ	±5%	SRD¼SD	R319	0114201	Carbon film	10kΩ	±5%	SRD¼P	
R110	0138121	Carbon film	1kΩ	±5%	SRD¼SD	* R320	0134299	Composition	68Ω	±10%	RC½GF	
R111	0138167	Carbon film	18kΩ	±5%	SRD¼SD	○ R320	0134298	Composition	56Ω	±10%	RC½GF	
R112	0138081	Carbon film	100Ω	±5%	SRD¼SD	R401(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P	
R113	0138085	Carbon film	150Ω	±5%	SRD¼SD	R402(L,R)	0114169	Carbon film	2.2kΩ	±5%	SRD¼P	
R114	0138081	Carbon film	100Ω	±5%	SRD¼SD	R403(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P	
R115	0138059	Carbon film	56Ω	±5%	SRD¼SD	R404(L,R)	0114148	Carbon film	510Ω	±5%	SRD¼P	
for TUNER PRINTED WIRING BOARD						R405(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P	
R151	0114201	Carbon film	10kΩ	±5%	SRD¼P	R406(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P	
R152	0114165	Carbon film	1.5kΩ	±5%	SRD¼P	R407(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P	
R153	0114131	Carbon film	100Ω	±5%	SRD¼P	R408(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P	
R154	0114221	Carbon film	68kΩ	±5%	SRD¼P	R409(L,R)	0114135	Carbon film	150Ω	±5%	SRD¼P	
R155	0114287	Carbon film	180kΩ	±5%	SRD¼P	R410(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P	
R156	0114161	Carbon film	1kΩ	±5%	SRD¼P	R411(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P	
R157	0114153	Carbon film	820Ω	±5%	SRD¼P	R601(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P	
R158	0114145	Carbon film	390Ω	±5%	SRD¼P	R602(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P	
R159	0114203	Carbon film	12kΩ	±5%	SRD¼P	R603(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P	
R201	0138093	Carbon film	330Ω	±5%	SRD¼SD	R606(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P	
R202	0114285	Carbon film	150kΩ	±5%	SRD¼P	for AUDIO PRINTED WIRING BOARD						
R203	0114169	Carbon film	2.2kΩ	±5%	SRD¼P	○ R501	0114205	Carbon film	15kΩ	±5%	SRD¼P	
R204	0138139	Carbon film	5.6kΩ	±5%	SRD¼SD	○ R502	0114205	Carbon film	15kΩ	±5%	SRD¼P	
R205	0114137	Carbon film	180Ω	±5%	SRD¼P	○ R503	0138089	Carbon film	220Ω	±5%	SRD¼SD	
R206	0114183	Carbon film	8.2kΩ	±5%	SRD¼P	○ R504	0114285	Carbon film	150kΩ	±5%	SRD¼P	
R207	0114217	Carbon film	47kΩ	±5%	SRD¼P	○ R505	0114205	Carbon film	15kΩ	±5%	SRD¼P	
R208	0114169	Carbon film	2.2kΩ	±5%	SRD¼P	○ R506	0114173	Carbon film	3.3kΩ	±5%	SRD¼P	
R209	0114203	Carbon film	12kΩ	±5%	SRD¼P	○ R507	0114201	Carbon film	10kΩ	±5%	SRD¼P	
R210	0114217	Carbon film	47kΩ	±5%	SRD¼P	○ R508	0114285	Carbon film	150kΩ	±5%	SRD¼P	
R211	0134295	Composition	33Ω	±10%	RC½GF	○ R509	0114285	Carbon film	150kΩ	±5%	SRD¼P	

SYMBOL NO.		STOCK NO.		DESCRIPTION		SYMBOL NO.		STOCK NO.		DESCRIPTION	
R605(L,R)		0114201		Carbon film	10kΩ	±5%	SRD¼P	Q151		0573491 2SC454 (B)	
R701(L,R)		0114281		Carbon film	100kΩ	±5%	SRD¼P	Q251		2327443 2SC1344 (E)	
R702(L,R)		0114217		Carbon film	47kΩ	±5%	SRD¼P	for AUDIO PRINTED WIRING BOARD			
R703(L,R)		0114217		Carbon film	47kΩ	±5%	SRD¼P				
R704(L,R)		0114171		Carbon film	2.7kΩ	±5%	SRD¼P	IC701		2367152 HA1452W	
* R705(L,R)		0114211		Carbon film	27kΩ	±5%	SRD¼P	Q501		2320063 2SC458 (C)	
Q R705(L,R)		0114213		Carbon film	33kΩ	±5%	SRD¼P	Q502		2328083 2SA844 (E)	
R706(L,R)		0114153		Carbon film	820Ω	±5%	SRD¼P	Q503		2320063 2SC458 (C)	
R707(L,R)		0114203		Carbon film	12kΩ	±5%	SRD¼P	Q504		2327333 2SC1213 (C)	
R708(L,R)		0114167		Carbon film	1.8kΩ	±5%	SRD¼P	Q701(L,R)		2328261 2SD571 (L)	
R709(L,R)		0114177		Carbon film	4.7kΩ	±5%	SRD¼P	Q702(L,R)		2328271 2SB605 (L)	
R710(L,R)		0114153		Carbon film	820Ω	±5%	SRD¼P	* Q703(L,R)		2328247 2SB565A (C) -01	
* R711(L,R)		0114171		Carbon film	2.7kΩ	±5%	SRD¼P	Q703(L,R)		2327811 2SA627 (4)M	
Q R711(L,R)		0114179		Carbon film	5.6kΩ	±5%	SRD¼P	* Q704(L,R)		2328227 2SD475A (C) -01	
* R712(L,R)		0114171		Carbon film	2.7kΩ	±5%	SRD¼P	Q704(L,R)		2327821 2SD188 (4)M	
Q R712(L,R)		0114179		Carbon film	5.6kΩ	±5%	SRD¼P	Q801		2327802 2SD478 (C)	
* R715(L,R)		0119046		Metal	27Ω	±10%	RN1B	Q802		2327792 2SB568 (C)	
Q R715(L,R)		0110601		Metal	10Ω	±5%	RN¼B	DIODES			
* R716(L,R)		0119046		Metal	27Ω	±10%	RN1B				
Q R716(L,R)		0110601		Metal	10Ω	±5%	RN¼B	for FRONT END PRINTED WIRING BOARD			
* R717(L,R)		0119041		Metal	10Ω	±10%	RN1B				
Q R717(L,R)		0119139		Metal	4.7Ω	±10%	RN2B	for TUNER PRINTED WIRING BOARD			
R718(L,R)		0119041		Metal	10Ω	±10%	RN1B				
R719(L,R)		0119426		Metal oxide	270Ω	±10%	RD1PA	CR101		2337011 1S2076	
* R721(L,R)		0114143		Carbon film	330Ω	±5%	SRD¼P	CR102		0575002 1N34A	
Q R721(L,R)		0134361		Composition	100Ω	±10%	RC½GF	for TUNER PRINTED WIRING BOARD			
R722		0114281		Carbon film	100kΩ	±5%	SRD¼P				
* R723(L,R)		0114181		Carbon film	6.8kΩ	±5%	SRD¼P	CR151		2337011 1S2076	
* R724(L,R)		0114181		Carbon film	6.8kΩ	±5%	SRD¼P	CR201		2337011 1S2076	
* R725(L,R)		0114171		Carbon film	2.7kΩ	±5%	SRD¼P	CR202		2337011 1S2076	
* R726(L,R)		0114171		Carbon film	2.7kΩ	±5%	SRD¼P	Q CR203		2337011 1S2076	
* R727		0114147		Carbon film	470Ω	±5%	SRD¼P	CR251		0575002 1N34A	
Q R727		0134059		Composition	560Ω	±5%	RC½GF	CR252		0575002 1N34A	
* R728		0114147		Carbon film	470Ω	±5%	SRD¼P	CR253		2337011 1S2076	
Q R728		0114149		Carbon film	560Ω	±5%	SRD¼P	CR301		2337011 1S2076	
Q R729(L,R)		0114141		Carbon film	270Ω	±5%	SRD¼P	CR302		2337011 1S2076	
Q R730(L,R)		0114141		Carbon film	270Ω	±5%	SRD¼P	Q CR501		2337011 1S2076	
Q R731(L,R)		0114049		Carbon film	22Ω	±5%	SRD¼P	Q CR502		2337011 1S2076	
* R731(L)		0114131		Carbon film	100Ω	±5%	SRD¼P	Q CR503		2337083 W06C	
* R731(R)		0138081		Carbon film	100Ω	±5%	SRD¼P	Q CR504		2337083 W06C	
* R732(L,R)		0114295		Carbon film	390kΩ	±5%	SRD¼P	Q CR505		2337011 1S2076	
Q R732(L,R)		0114217		Carbon film	47kΩ	±5%	SRD¼P	CR701(L,R)		2347042 MV-5W	
Q R733(L,R)		0119422		Metal oxide	120Ω	±10%	RD1PA	* CR703		2347042 MV-5W	
Q R734(L,R)		0119422		Metal oxide	120Ω	±10%	RD1PA	* CR801		2327031 V03C	
* R734(L,R)		0114295		Carbon film	390kΩ	±5%	SRD¼P	Q CR801-804		2337341 S5VB-20 STACK	
R735		0134362		Composition	120Ω	±10%	RC½GF	* CR802		2327031 V03C	
* R801		0134375		Composition	1.5kΩ	±10%	RC½GF	* CR803		2327031 V03C	
Q R801		0134458		Composition	1.5kΩ	±10%	RC½GF	* CR804		2427031 V03C	
* R802		0134375		Composition	1.5kΩ	±10%	RC½GF	CR805		2337103 HZ-12 (C)	
Q R802		0134458		Composition	1.5kΩ	±10%	RC½GF	CR806		2337103 HZ-12 (C)	
R803		0114151		Carbon film	680Ω	±5%	SRD¼P	Q TH701(L,R)		0576031 13D27	
R804		0114151		Carbon film	680Ω	±5%	SRD¼P	for REAR PLATE ASSEMBLY			
R001		0139005		Composition	2.7MΩ	±10%	RC½GF				
for REAR PLATE ASSEMBLY											
RI16		0114161		Carbon film	1kΩ	±5%	SRD¼P				
ICs, TRANSISTORS & FET											
for FRONT END PRINTED WIRING BOARD											
FET101		2327431		3SK45							
Q101		0573510		2SC535 (B)							
Q102		0573507		2SC461 (B)							
for TUNER PRINTED WIRING BOARD											
IC201		2367281		HA11211							
IC301		2367271		HA1196							
IC401		2367152		HA1452W							

HITACHI SR-503/SR-603

SYMBOL NO.	STOCK NO.	DESCRIPTION	SYMBOL NO.	STOCK NO.	DESCRIPTION
VARIABLE RESISTORS					
for TUNER PRINTED WIRING BOARD					
VR301	0151225	50k Ω -(B) (Discri. output level adj.)	S5,6	2637991	Switch-push switch (Mode, Loudness) (SR-503)
VR302	0151271	6.8k Ω -(B) (VCO adj.)	S6,7	2637991	Switch-push switch (Mode, Loudness) (SR-603)
VR303	0151284	300k Ω -(B) (Separation adj.)	S7,8	2638012	Switch-push switch (Speaker) (SR-503)
VR601(L,R)	0156185	100k Ω -(B) (Volume)	S8,9	2638012	Switch-push switch (Speaker) (SR-603)
VR602	0151678	250k Ω -(W) (Balance)	S10a,b	2647072	Power relay (SR-603)
for AUDIO PRINTED WIRING BOARD				2677281	Socket-DIN 5P socket
VR701(L,R)	0151681	50k Ω -(C) (Bass)		2667161	Plug-Short pin plug
VR702(L,R)	0151681	50k Ω -(C) (Treble)	J1	2677231	Jack-Headphone jack
VR703(L,R)	0151222	100 Ω -(B) (Idle current adj.)	T001	2218331	Power transformer (SR-503)
COILS & TRANSFORMERS			T001	2218341	Power transformer (SR-603)
for FRONT END PRINTED WIRING BOARD				3920801	Pulley
L101	2134741	FM Antenna coil		4571921	Flywheel assembly
L102	2134743	FM RF coil		4125642	Washer-10 ϕ washer (SR-503)
L103	2227081	FM choke coil (1 μ H)		4513311	Earth screw
L104	2134471	FM OSC coil		4567411	3 ϕ x 6CT bind screw (yellow)
T101	2154291	FM IF transformer		4567451	3 ϕ x 6CT bind screw (silver)
for TUNER PRINTED WIRING BOARD				4784106	3 ϕ x 8 bind screw
L151	2757291	Ferrite antenna		4567442	3 ϕ x 8CT bind screw
L152	2134431	MW OSC coil		4567443	4 ϕ x 10CT bind screw
L153	2227082	Choke coil (100 μ H)		4770255	4 ϕ flanged nut
L201	2227119	Choke coil (18 μ H)		2677321	4P US pin terminal board
L301	2227101	Coil (100mH)		2677341	8P US pin terminal board
L302	2227101	Coil (100mH)		2687792	4P push terminal
T151	2154182	AM IF transformer		3921301	Bushing (for Power transistor)
T201	2154271	FM IF transformer	for DIAL MECHANISM ASSEMBLY		
T251	2154122	AM IF transformer		3199771	Dial scale
for AUDIO PRINTED WIRING BOARD				4399751	Dial pointer assembly
L701(L,R)	2227261	Audio trap coil (2.2 μ H)		0666704	Wire clip
MISCELLANEOUS				3338841	Spring
VC101-103	2506401	Tuner-Front end printed wiring board assembly (SR-503)		4398631	Meter panel (SR-503)
	2506402	Tuner-Front end printed wiring board assembly (SR-603)		4394983	Meter panel (SR-603)
VC151,152	2506141	Audio printed wiring board assembly (SR-503)		3923401	Indicator
	2506151	Audio printed wiring board assembly (SR-603)		4684135	Indicator cover
TC103	0281169	Variable capacitor		4567411	3 ϕ x 6CT bind screw
CP001	0283121	Trimmer capacitor		4398542	Lamp cover assembly
CP251	0269017	Spark killer		2577245	Signal meter (SR-503)
MF201	0186131	CR multiple component		2577294	Signal meter (SR-603)
MF202	2134541	Ceramic filter		2577242	Tuning meter (SR-603)
F001	2134541	Ceramic filter	PL6	2767233	Lamp-indicator lamp (8V, 30mA)
F001	2727081	Fuse-Wired in fuse (2A) (SR-503)	for REAR PLATE ASSEMBLY		
F002	2727084	Fuse-Wired in fuse (2.5A) (SR-603)		0043793	Bushing
F701(L,R)	2727012	Fuse-fuse (3A)		4567433	3 ϕ x 10CT bind screw
S1	2727223	Fuse-fuse (3A)		2657281	AC outlet
S2a-f	2637322	Switch-power switch		2687652	3P mold screw terminal
S2a-f	2617732	Switch-rotary switch (Function) (SR-503)		2748442	AC power cord
S3a,b,S9	2617733	Switch-rotary switch (Function) (SR-603)	for FINAL ASSEMBLY		
S3a,b,S4a,b,S5a,b	2638001	Switch-push switch (FM mute, Tape monitor) (SR-503)		3244431	Escutcheon assembly (SR-503)
	2638001	Switch-push switch (High filter, Tape monitor) (SR-603)		3244433	Escutcheon assembly (SR-603)
				3282395	Knob-push knob (Power)
				3282806	Knob-push knob (Loudness, Mode)
				3282807	Knob-push knob (Tape monitor)
				3283031	Knob (Bass, Treble, Balance, Volume, Function)
				3284391	Knob (Tuning)
				4743422	Knob ring
				3916411	Leg
				4567413	3 ϕ x 10CT bind screw
				4567411	3 ϕ x 6CT bind screw
				4567446	4 ϕ x 16CT bind screw
				3922511	DIN cap
				3922521	US pin cap
			for CABINET ASSEMBLY		
				9403046	Cabinet assembly
			for ACCESSORY		
				2748371	FM antenna

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