

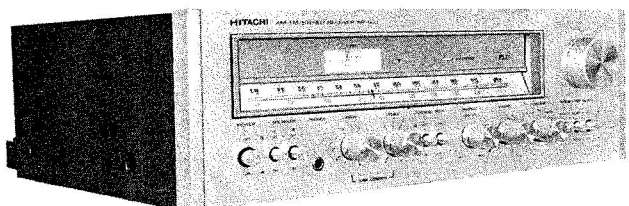


SR-503  
SR-603

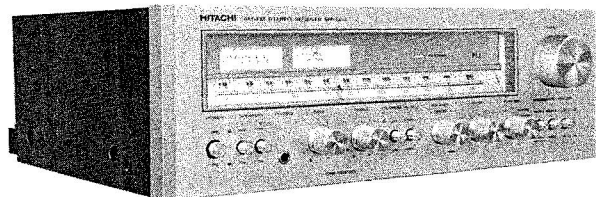
# SERVICE MANUAL

English  
Français

No. 108



SR-503



SR-603

## SPECIFICATIONS

### • FM SECTION

Frequency range	88-108 MHz
Usable sensitivity	Mono: 11.2 dBf (2.0 $\mu$ V)
50 dB Quieting sensitivity	Mono: 17 dBf (3.9 $\mu$ V) Stereo: 37 dBf (39 $\mu$ 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 $\mu$ V)
Antenna input	300 ohms balanced

### • AM SECTION

Frequency range	530-1,605kHz
Sensitivity	250 $\mu$ V/m (S/N 20 dB), 15 $\mu$ 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

# HITACHI SR-503/SR-603

## • 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 ( $\pm 1$  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  $\pm 0.3$  dB

#### Bass control

$\pm 10$  dB (100 Hz)

#### Treble control

$\pm 10$  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) x 5 $\frac{11}{16}$ (H) x 14 $\frac{11}{32}$ (D) in.

43.5(W) x 13.4(H) x 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

● <b>Partie FM</b>	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
Seuil d'élimination des parasites	21 dBf (6,3µV)
Entrée de l'antenne	300 ohms composés
● <b>Partie AM</b>	
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
● <b>Partie AUDIO</b>	
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 ( $\pm 1$ dB)
Distorsion harmonique	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,03%

<b>Distorsion d'intermodulation</b>	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,05%
<b>Sensibilité d'entrée (impédance)</b>	
(sous 22W (SR-503), 32W (SR-603), 1 kHz de sortie)	
<b>PHONO</b>	2,5 mV (47 k ohms)
<b>AUX</b>	200mV (40 k ohms)
<b>Bande-1</b>	200mV (40 k ohms)
<b>Bande-2</b>	200mV (40 k ohms)
<b>DIN</b>	450mV (100 k ohms)
<b>Bornes de sortie</b>	
<b>TAPE OUT</b>	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)
<b>DIN OUT</b>	110mV
<b>Niveau limite phono (à 1 kHz)</b>	
<b>Rapport signal/bruit</b>	
<b>PHONO</b>	70 dB
<b>AUX</b>	90 dB
<b>TAPE</b>	90 dB
<b>Facteur d'atténuation</b>	
<b>Compensateur</b>	
<b>Basse</b>	25 (SR-503), 30 (SR-603) (1 kHz, 8 ohms)
<b>Aigu</b>	RIAA ±0,3%
<b>Sonorité</b>	±10 dB (100Hz)
<b>High filter (SR-603)</b>	±10 dB (10 kHz)
<b>Semi-conductor</b>	+8 dB (100Hz), +4 dB (10 kHz)
<b>Alimentation</b>	-6 dB (10 kHz)
<b>Consommation</b>	1 FET, 4 ICs, 14 Transistors et 18 Diodes (SR-503)
<b>Dimensions</b>	1 FET, 4 ICs, 18 Transistors et 22 Diodes (SR-603)
	Secteur 120V (60Hz)
	115W (SR-503), 145W (SR-603)
	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
<b>Poids</b>	
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 sélectivité employant des circuits intégrés et deux filtres céramiques
3. Détection quadrature
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 REMPLACEMENT**

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

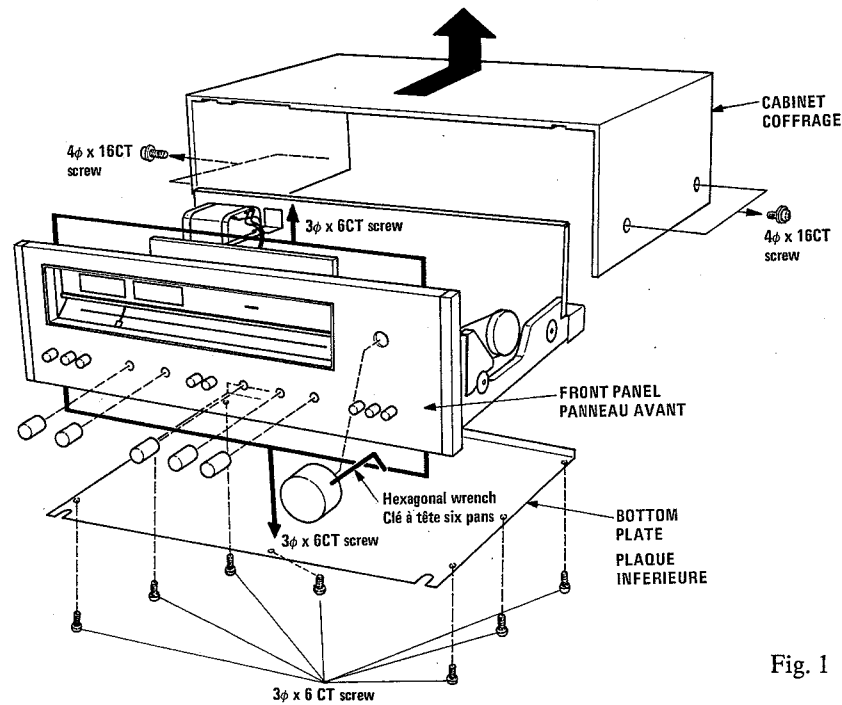


Fig. 1

**2. TUNER INPUT METER REPLACEMENT  
REMPACEMENT DU MÈTREUR DE SORTIE DU TUNER**

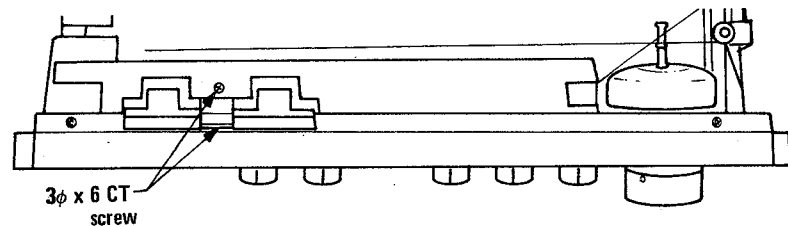


Fig. 2

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

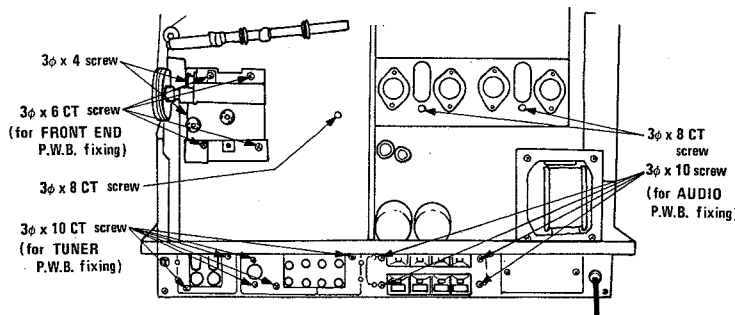


Fig. 3

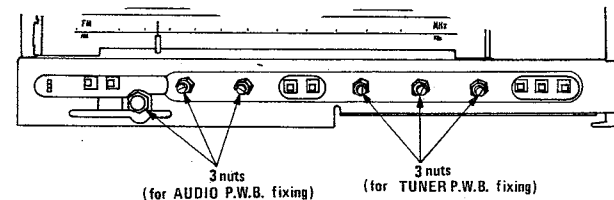


Fig. 4

**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.

**2. DC VOLTAGE DETECTION CIRCUIT (PROTECTION OF SPEAKER)**

In the OCL amplifier, when any trouble occurs, DC

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.

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 ± 1.0V.	Trouble in the main amplifier, etc.	Repair the fault. (Be sure to check that neutral point voltage is within ± 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 $\pm 150mV$ .)

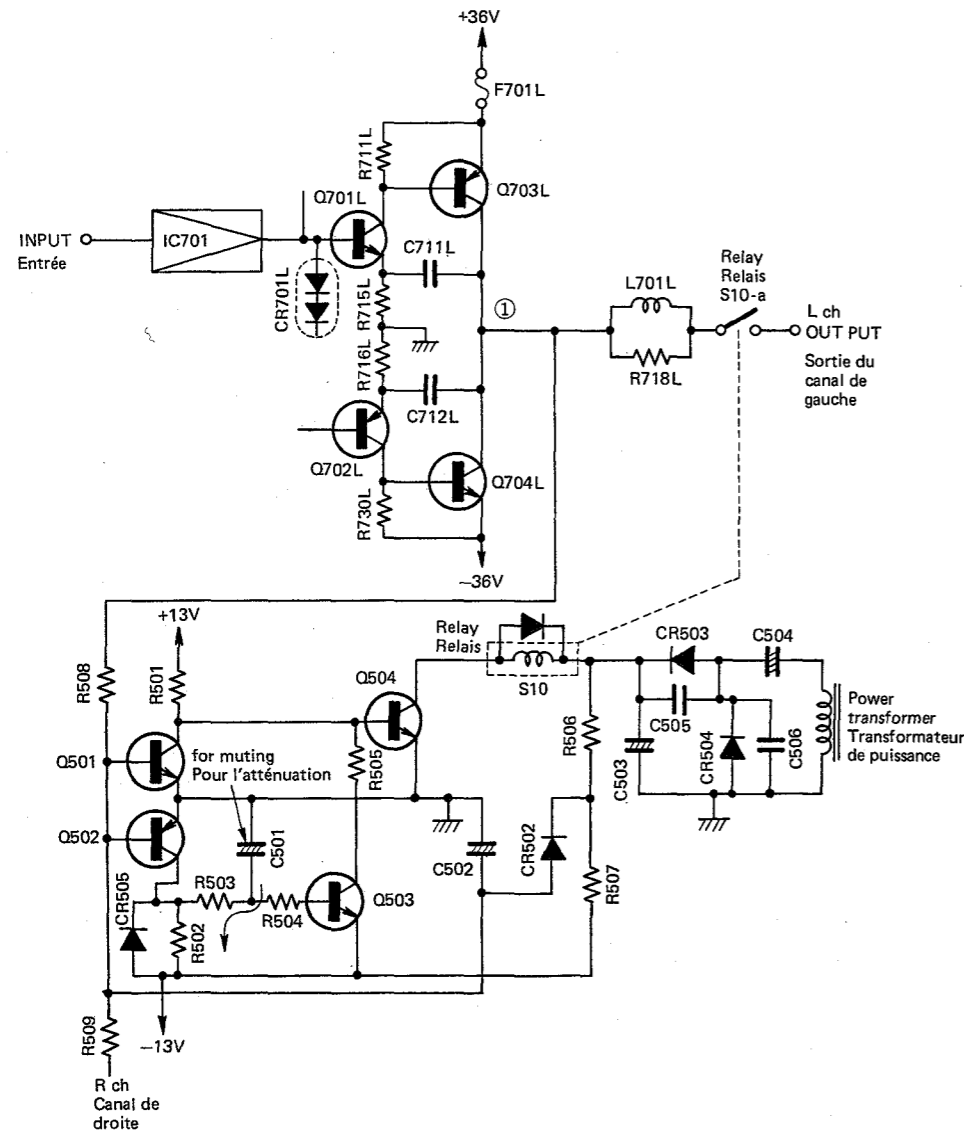


Fig. 5

GENERAL ALIGNMENT INSTRUCTION · INSTRUCTION GENERALE

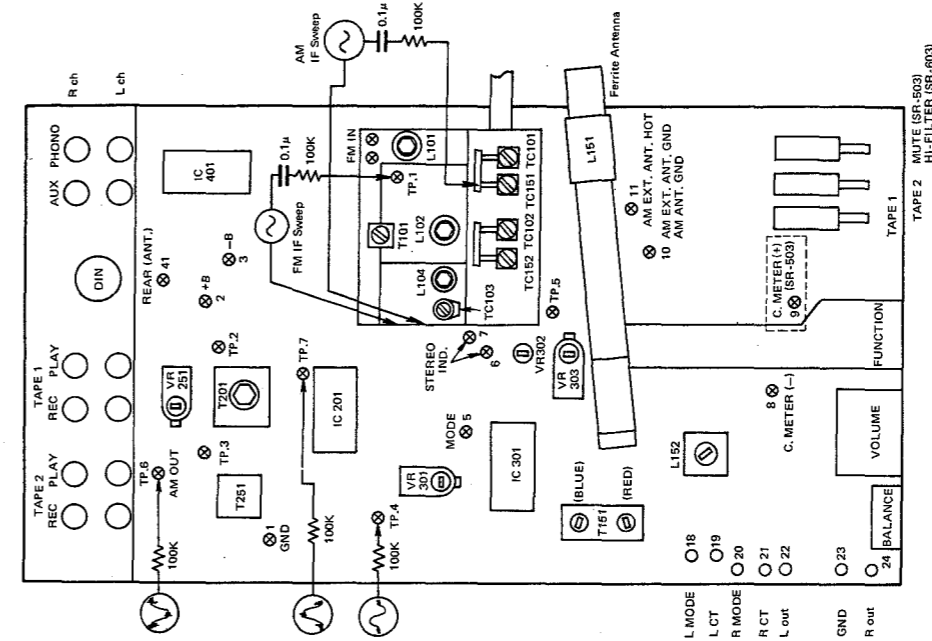


Fig. 6

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)	10.7MHz $\pm$ 150kHz Sweep Generator	TP 1	TP 7		T101	CAUTION (1)	
	(2)			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)	87.5MHz (Turn the dial pointer at low frequency end)	L104	Output Max.	
				or	SP OUT (L)	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)	90MHz	L101, L102	Output Max.	
				or	SP OUT (L)	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 ± 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.

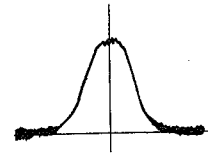


Fig. 7

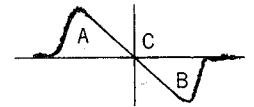


Fig. 8

**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 ± 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	
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	

**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).

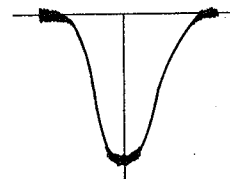


Fig. 9

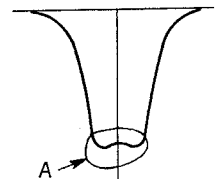


Fig. 10

## 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, Q702 L,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	Cut R723L(R) and R724L(R) off	10 mV - 60 mV
		Jumper ⑭ : R	less than 15 mV		
		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.

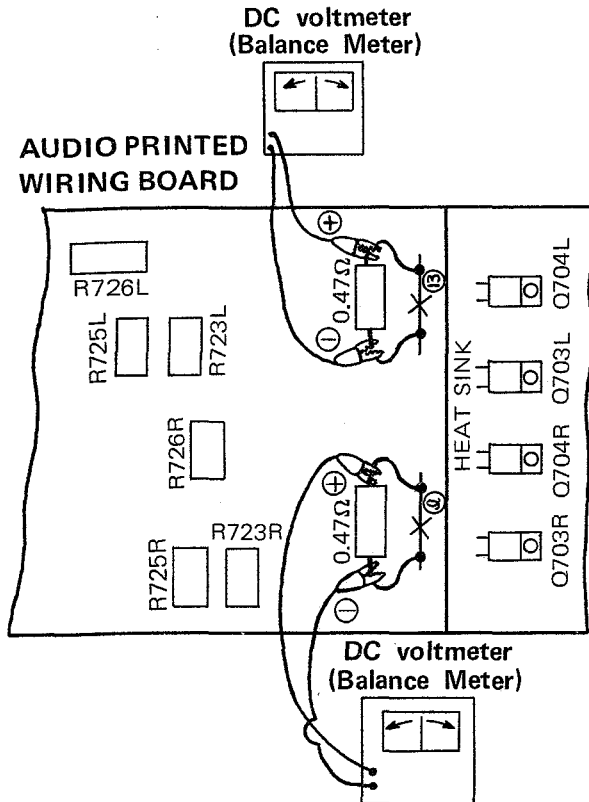


Fig. 11

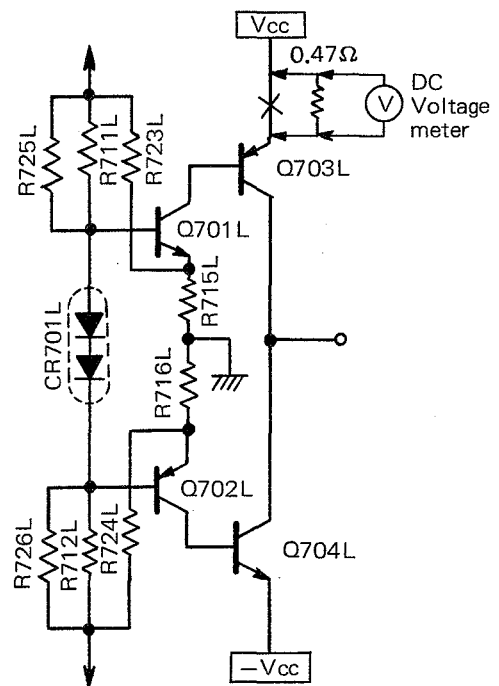


Fig. 12

SR-603

Item	Measuring Instrument	Point to be Measured	Adjust	Value Adjusted
Idle Current	DC voltmeter	F701 L,R CAUTION (1)	VR703 L,R	$20 \pm \frac{1}{10} \text{mV}$ ( $40 \pm \frac{3}{20} \text{mA}$ )

CAUTION

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

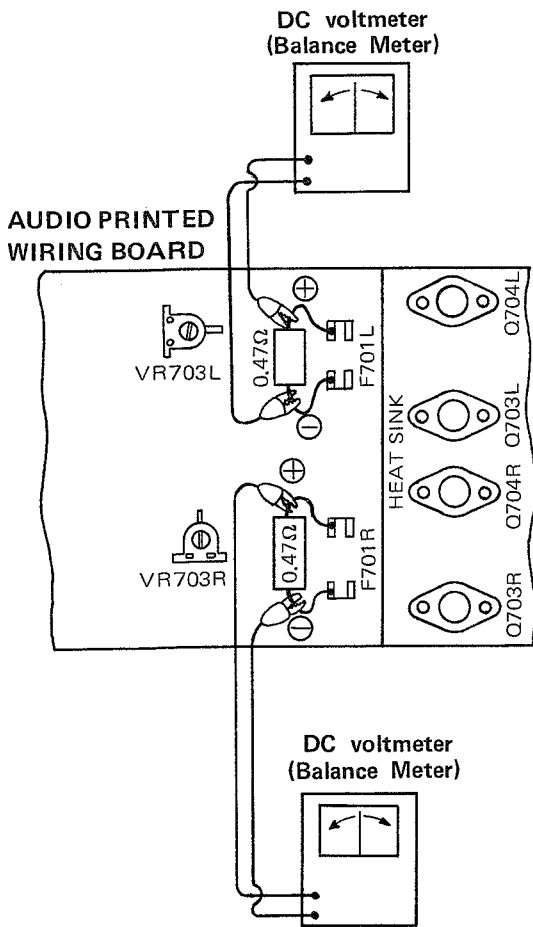


Fig. 13

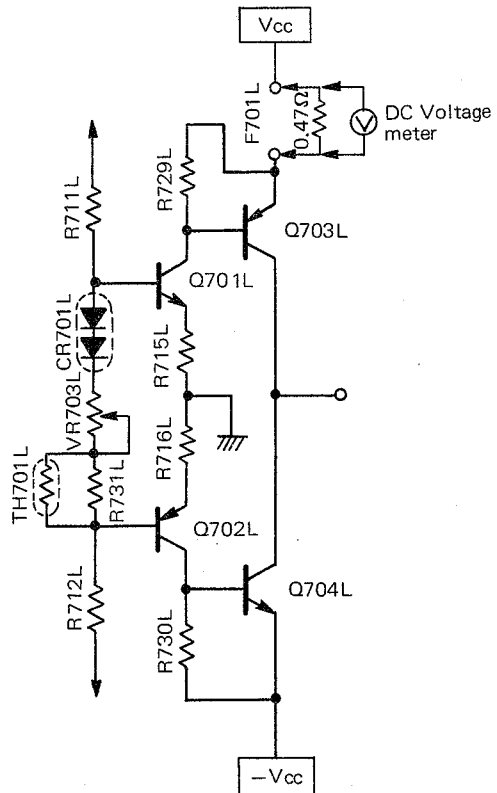


Fig. 14

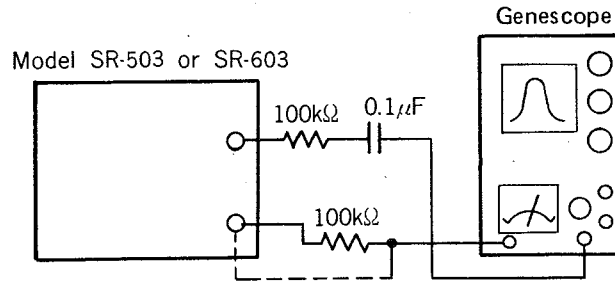


Fig. 15 FM IF Discriminator and AM IF alignments (AM and FM Step. 1)

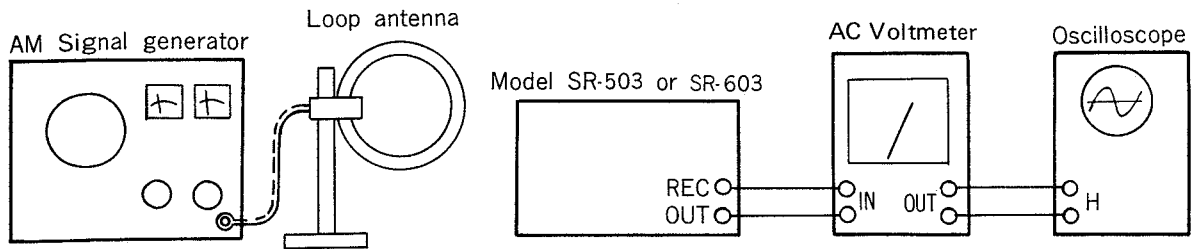


Fig. 16 AM frequency coverage and tracking alignments (Step. 2 and 3)

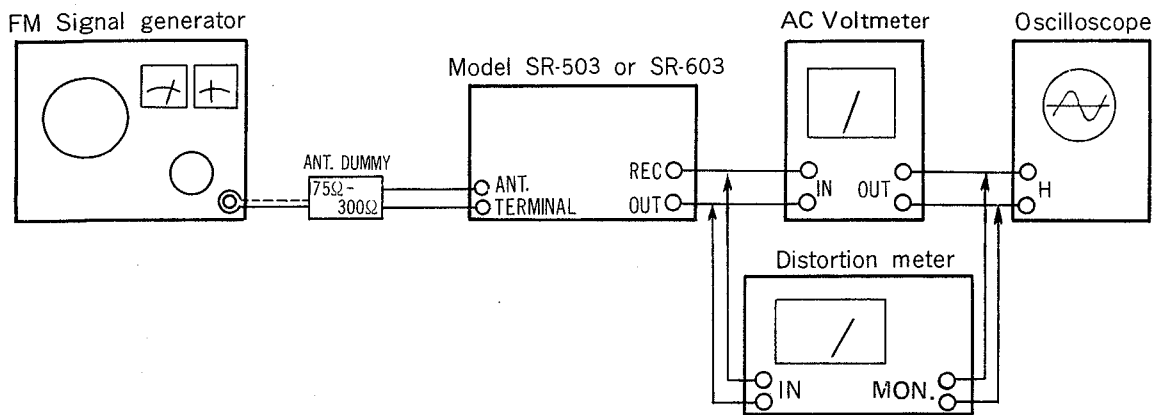


Fig. 17 FM frequency coverage, tracking and other alignments (STEP. 2 to 6)

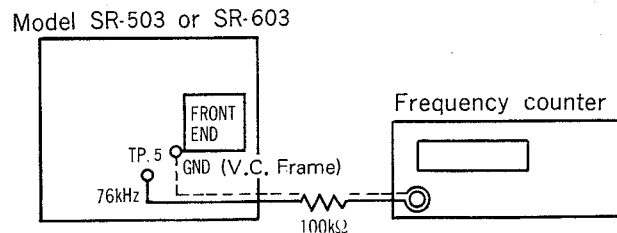


Fig. 18 FM MPX 76 kHz adjustment

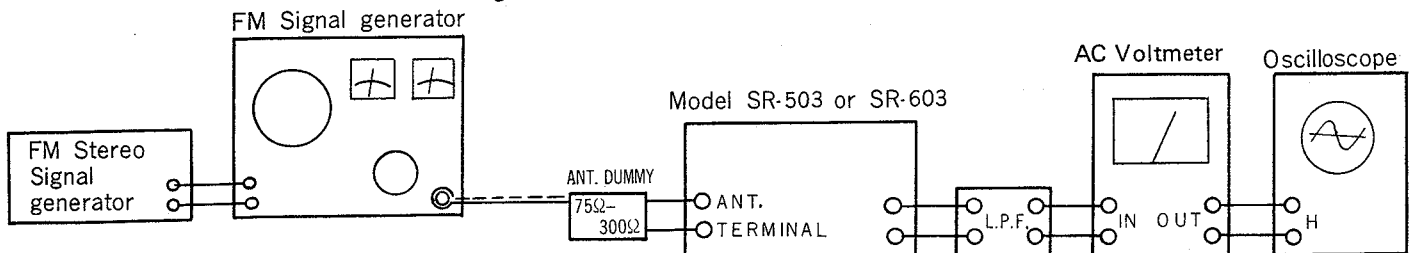
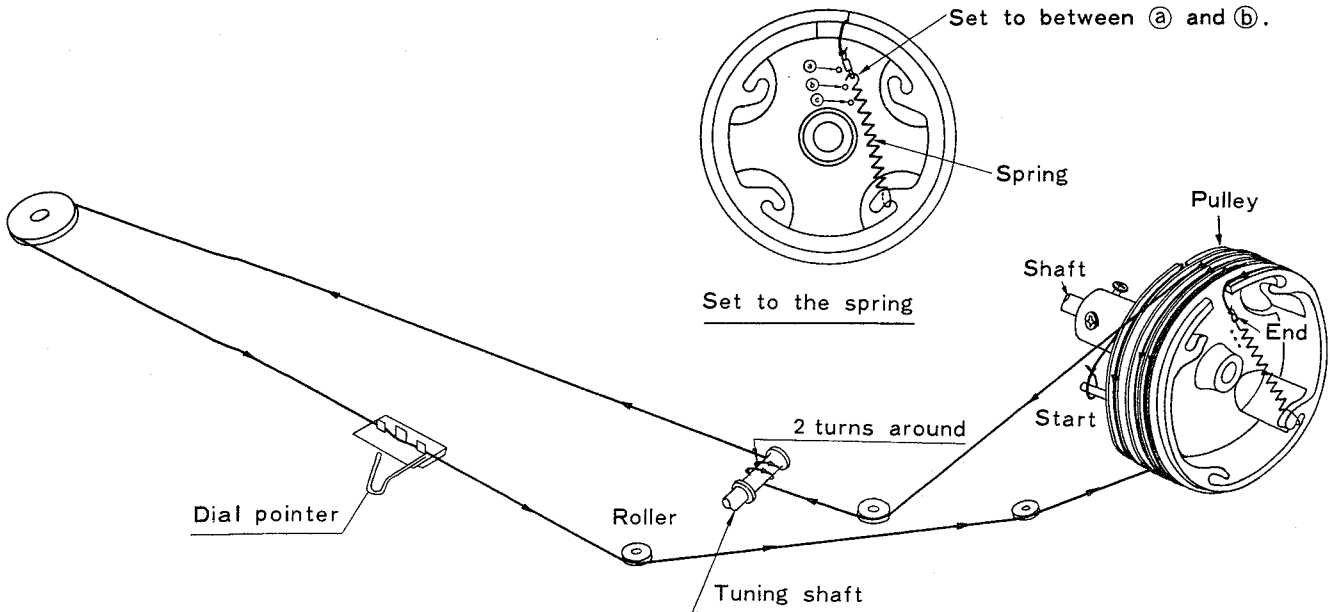


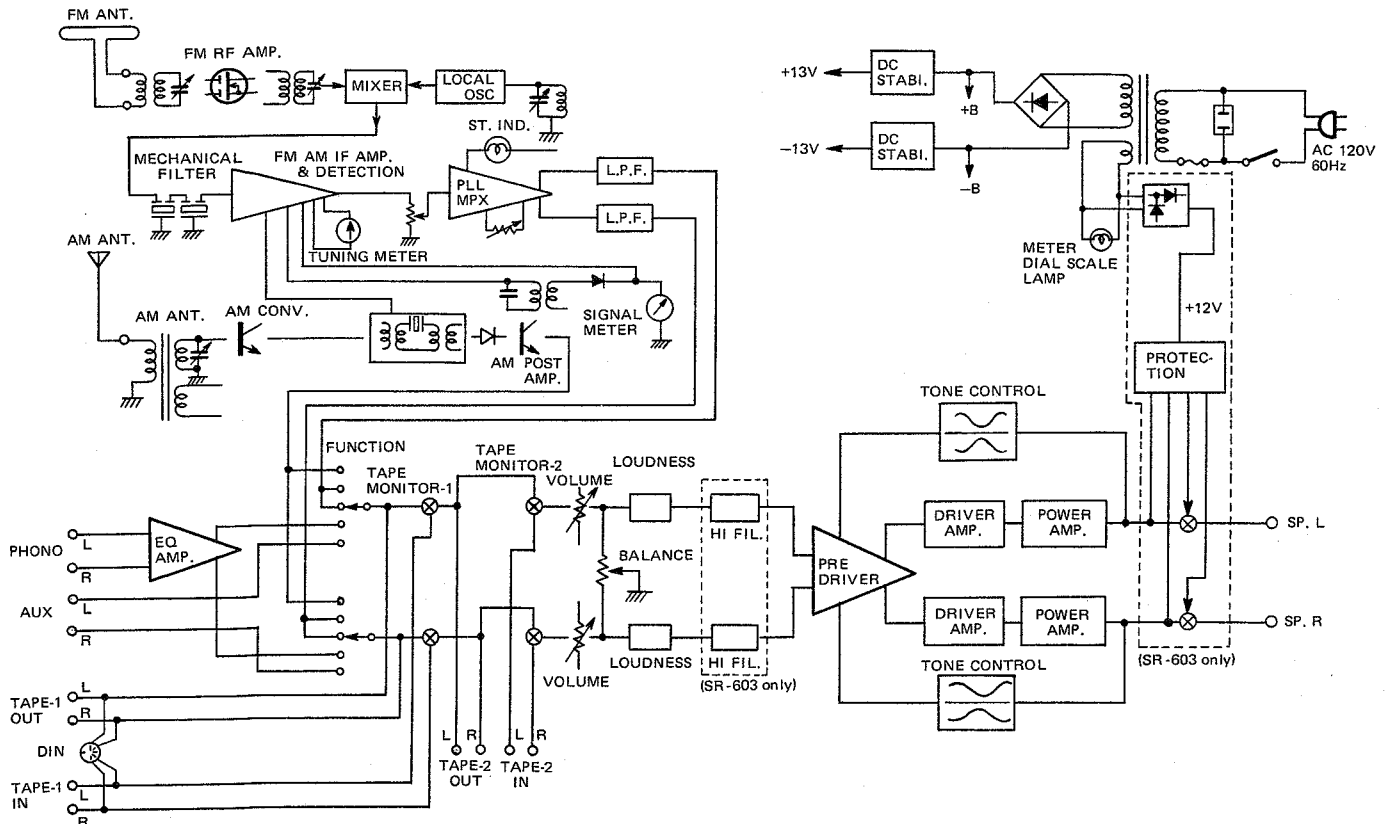
Fig. 19 FM MPX alignments (Step. 2)

DIAL CORD RESTRINGING · REMONTAGE DU FIL D'ENTRAÎNEMENT



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

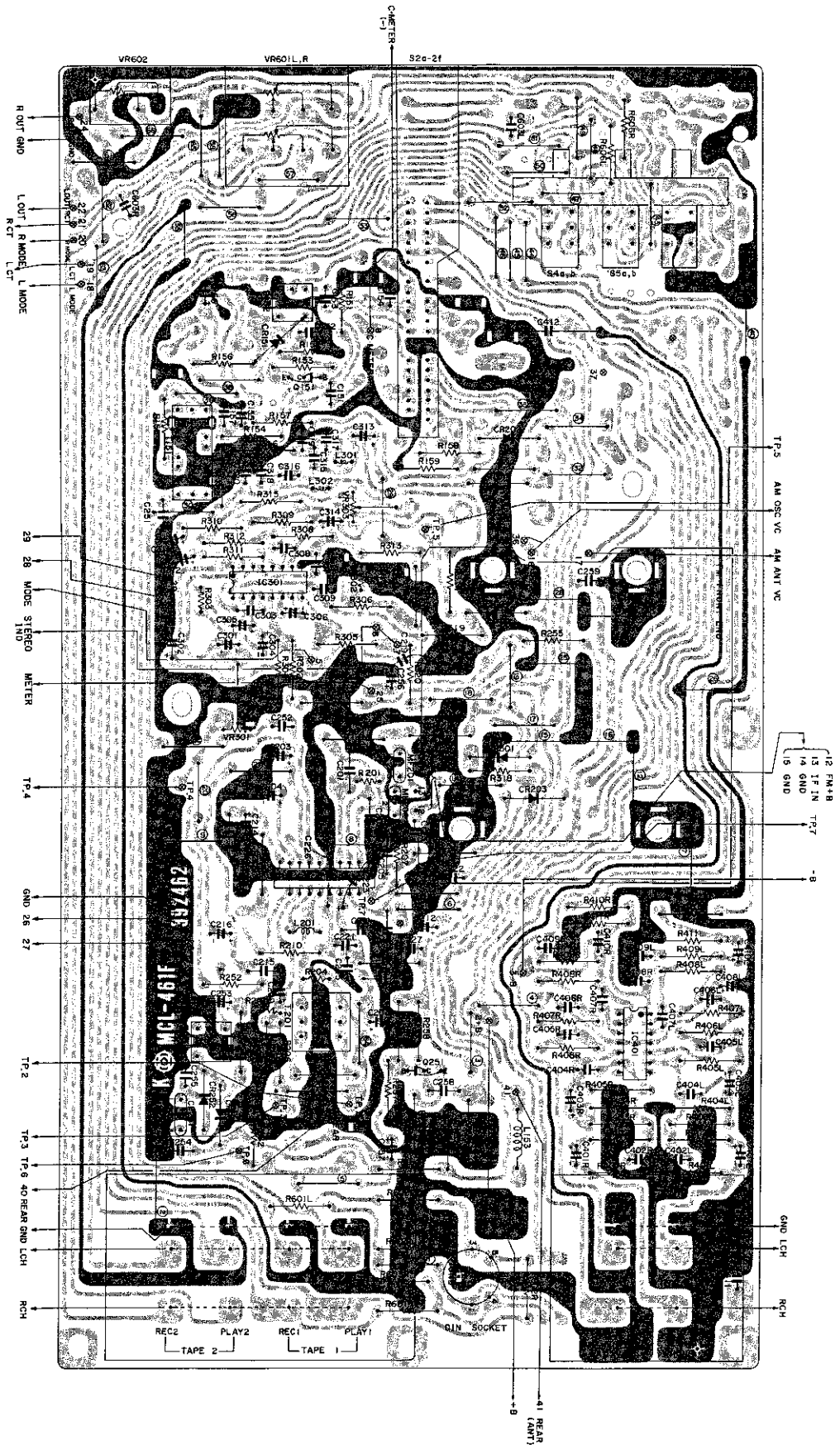
BLOCK DIAGRAM · SCHÉMA



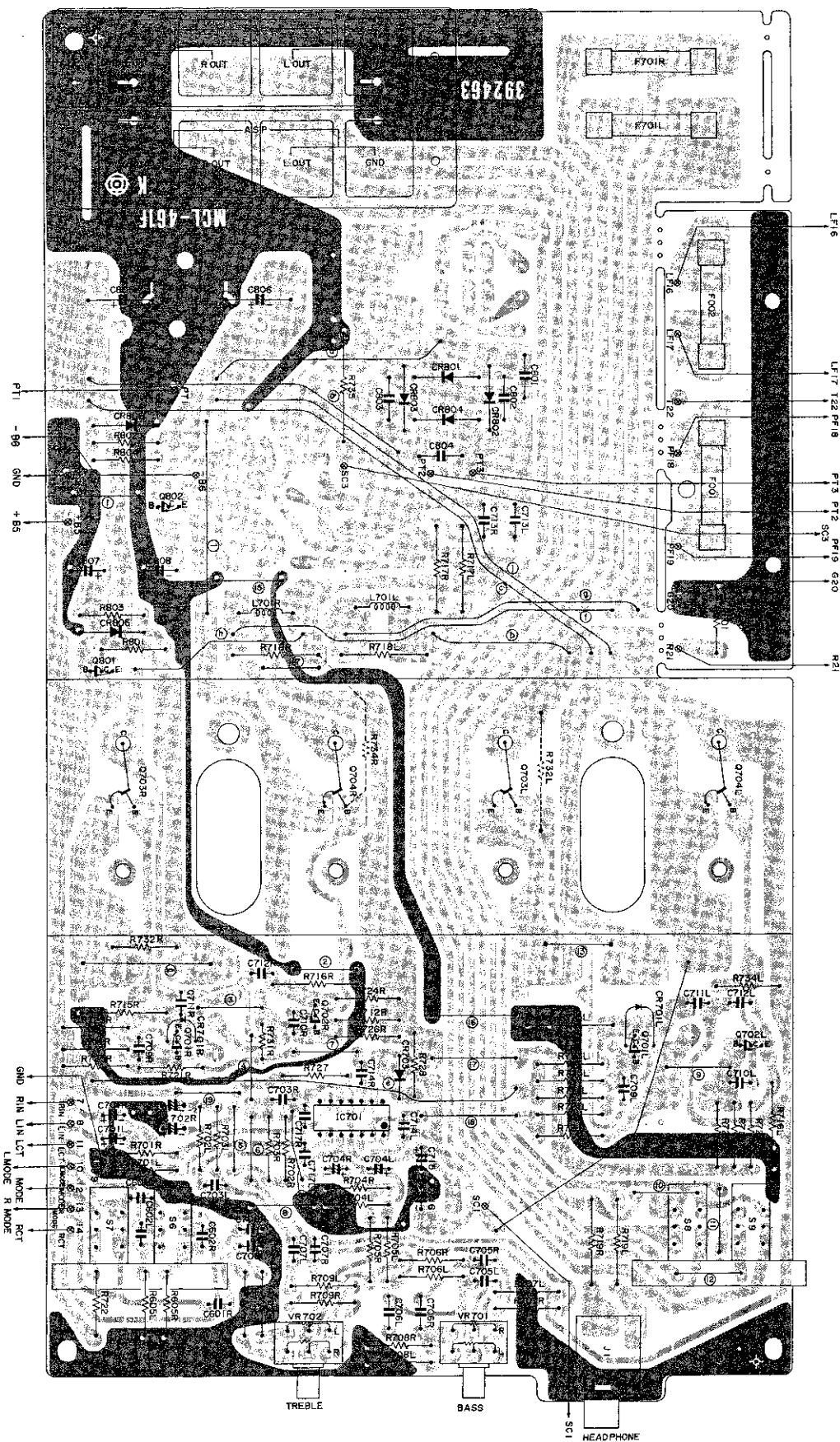


TUNER PRINTED WIRING BOARD(SR-603)

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

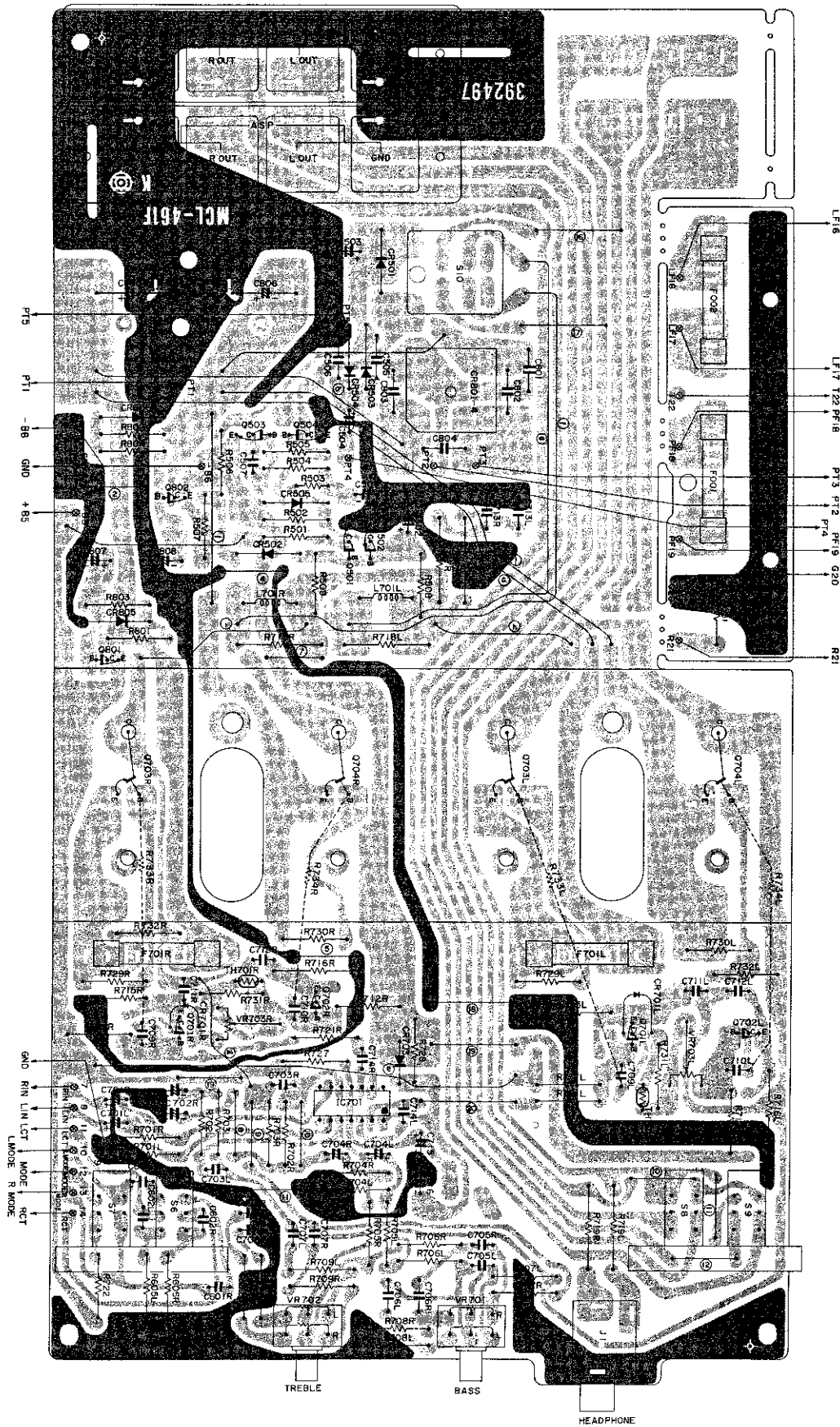


AUDIO PRINTED WIRING BOARD(SR-503)



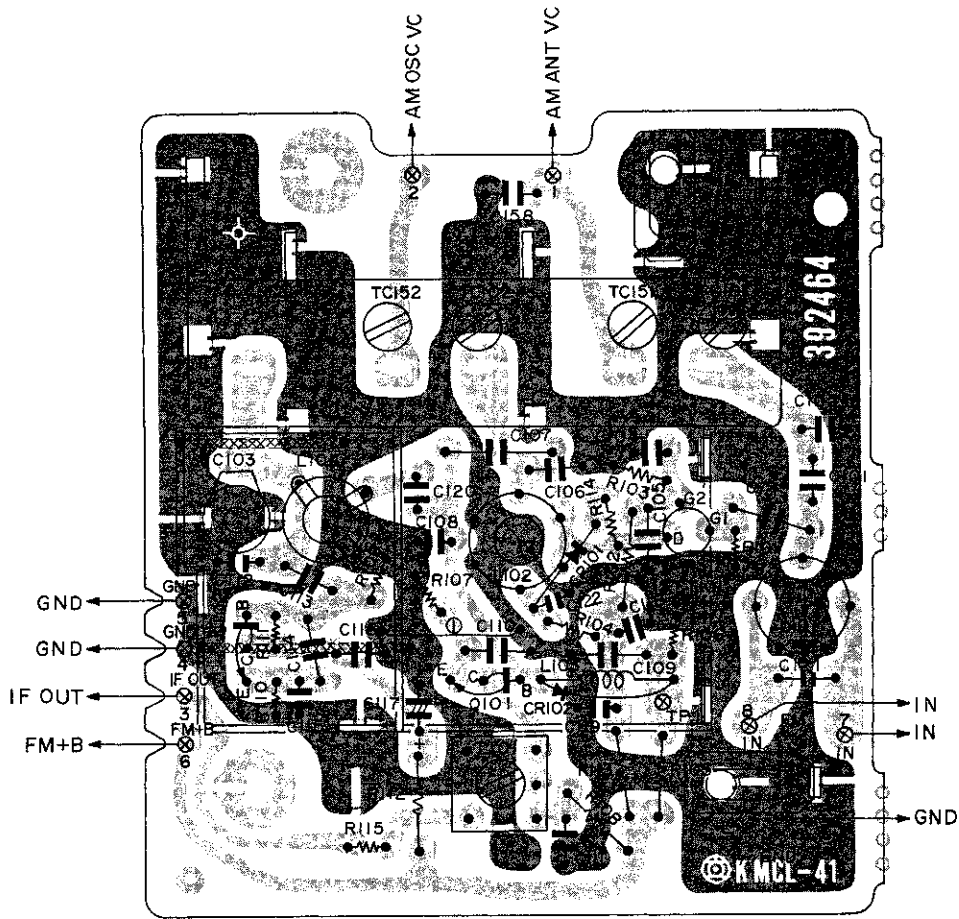
AUDIO PRINTED WIRING BOARD (SR-603)

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

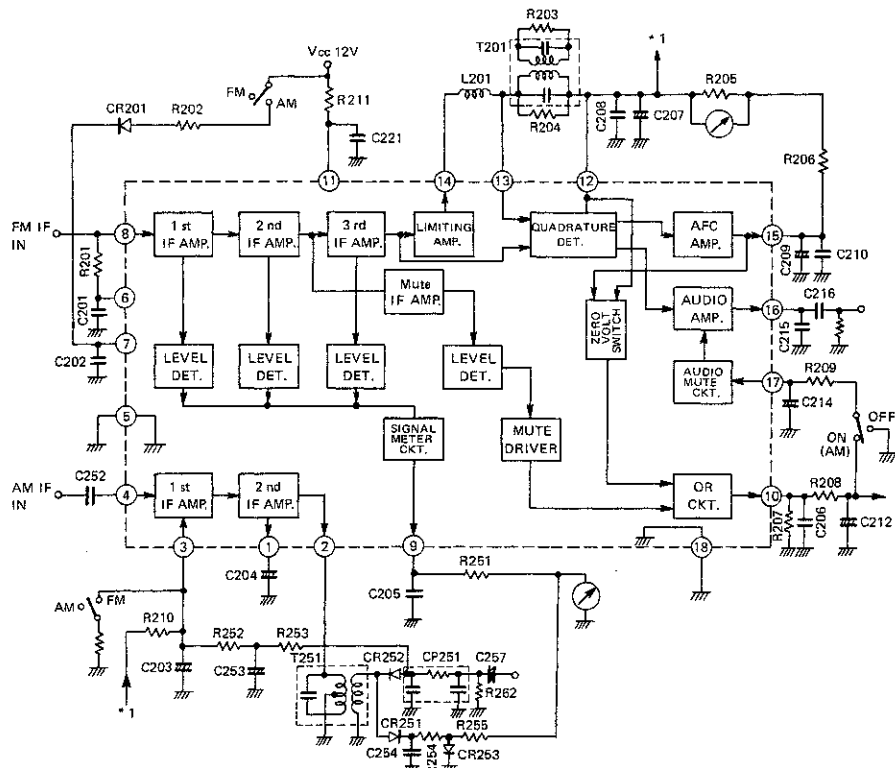




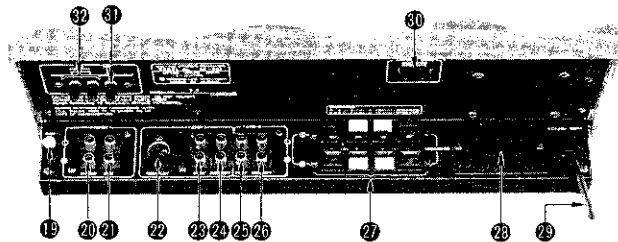
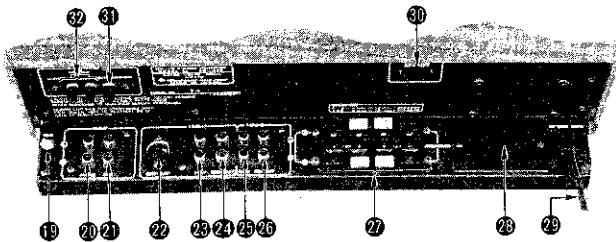
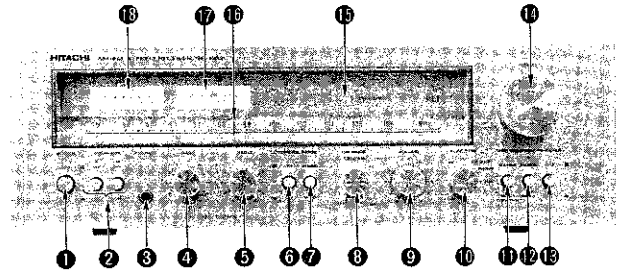
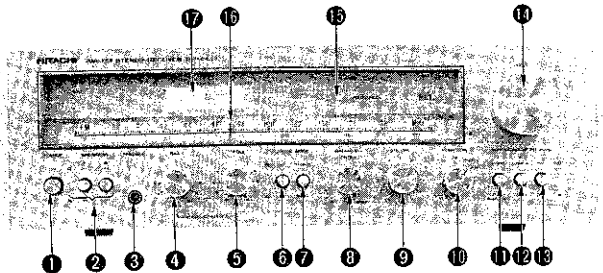
FRONT END PRINTED WIRING BOARD



CIRCUIT DIAGRAM HA1211



FRONT AND REAR PANEL · PANNEAUX AVANT ET ARRIERE



SR-503

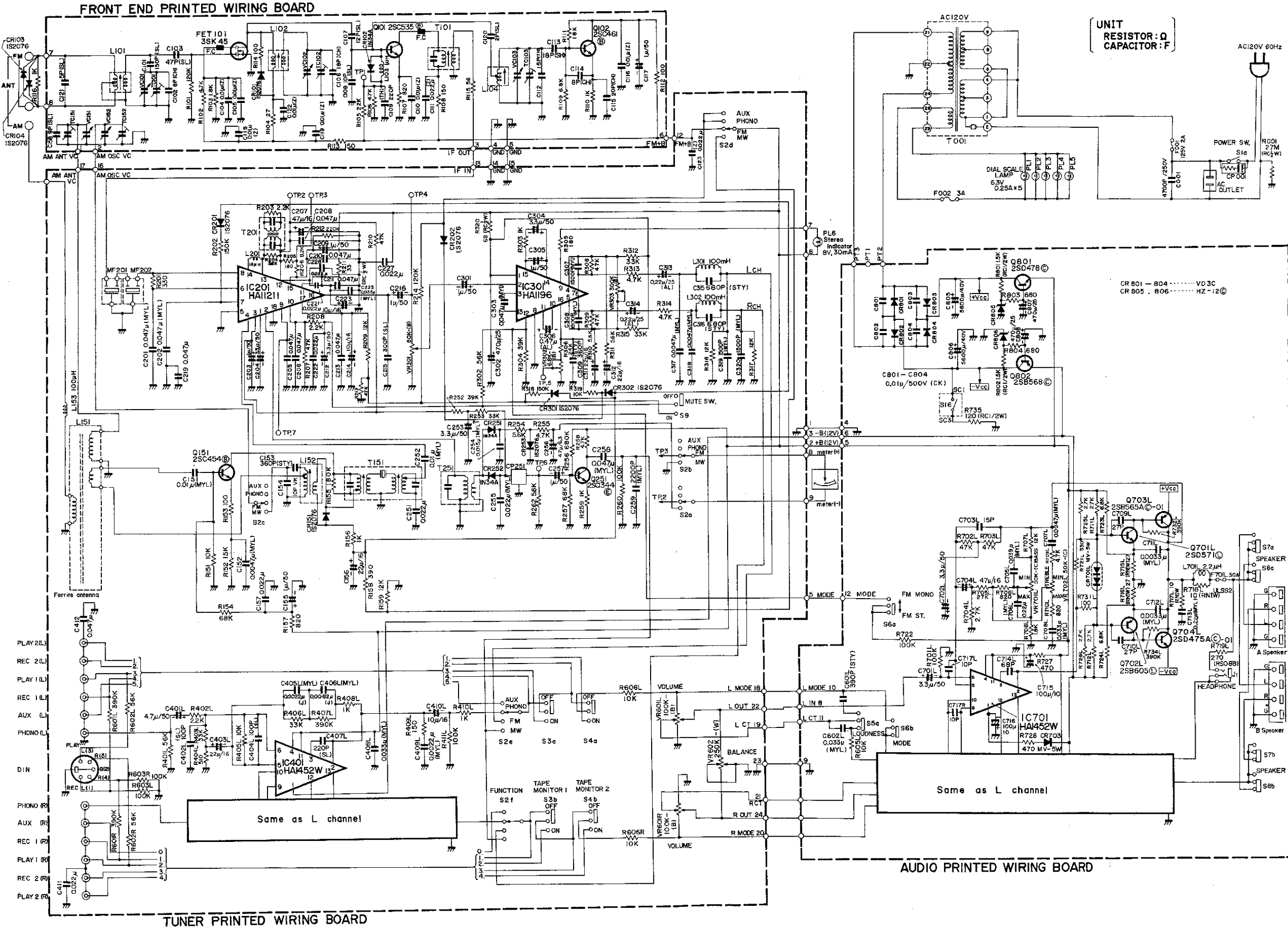
SR-603

- 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

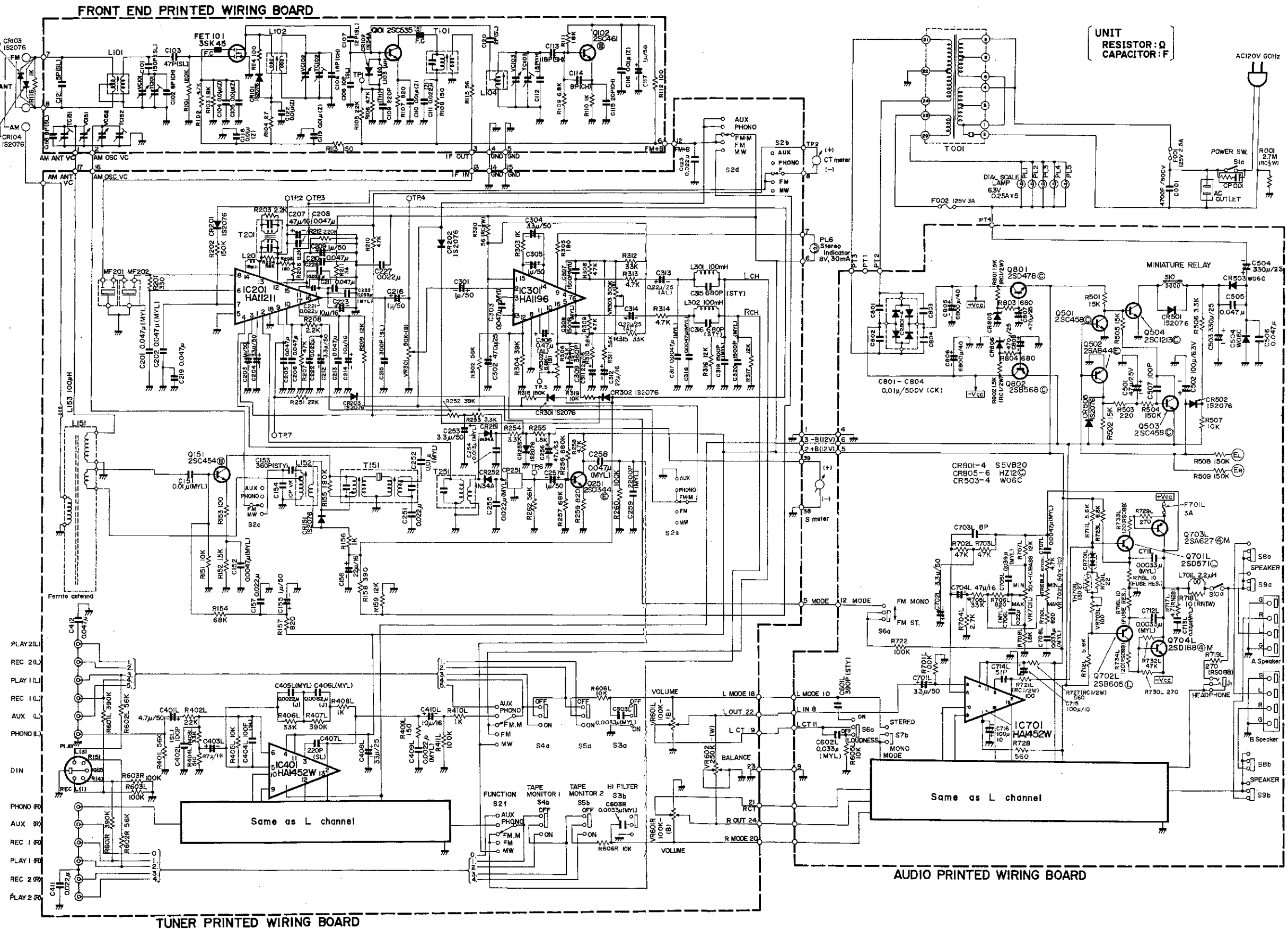
CIRCUIT DIAGRAM PLAN DE CIRCUIT(SR-503)

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



CIRCUIT DIAGRAM · PLAN DE CIRCUIT(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				
<b>CAPACITORS</b>					C251	0245018	Ceramic, discal	0.022μF	±80%	25V	
<b>for FRONT END PRINTED WIRING BOARD</b>					C252	0275011	Mylar, film	0.01μF	±10%	50V	
C101	0248688	Ceramic, discal	150pF	±5%	50V	C253	0252813	Electrolytic	3.3μF	50V	
C102	0246418	Ceramic, discal	8pF	±0.25pF	50V	C254	0275012	Mylar, film	0.015μF	±10%	50V
C103	0248676	Ceramic, discal	47pF	±5%	50V	C255	0275013	Mylar, film	0.022μF	±10%	50V
C104	0245017	Ceramic, discal	0.01μF	±80%	25V	C256	0252225	Electrolytic	47μF	6.3V	
C105	0245017	Ceramic, discal	0.01μF	±80%	25V	C257	0252811	Electrolytic	1μF	50V	
C106	0246446	Ceramic, discal	18pF	±5%	50V	C258	0275015	Mylar, film	0.047μF	±10%	50V
C107	0248662	Ceramic, discal	12pF	±5%	50V	C259	0274013	Mylar, film	2200pF	±10%	50V
C108	0248640	Ceramic, discal	10pF	±5pF	50V	C301	0252811	Electrolytic	1μF	50V	
C109	0248362	Ceramic, discal	220pF	±5%	50V	C302	0252635	Electrolytic	470μF	25V	
C110	0245017	Ceramic, discal	0.01μF	±80%	25V	C303	0275015	Mylar, film	0.047μF	±10%	50V
C111	0245018	Ceramic, discal	0.022μF	±80%	25V	C304	0252813	Electrolytic	3.3μF	50V	
C112	0248334	Ceramic, discal	15pF	±5%	50V	C305	0252811	Electrolytic	1μF	50V	
C113	0248176	Ceramic, discal	18pF	±5%	50V	C306	0251975	Electrolytic	0.47μF	25V	
C114	0246418	Ceramic, discal	8pF	±0.25pF	50V	C307	0274012	Mylar, film	1500pF	±10%	50V
C115	0246447	Ceramic, discal	20pF	±5%	50V	C308	0274012	Mylar, film	1500pF	±10%	50V
C116	0245017	Ceramic, discal	0.01μF	±80%	25V	C309	0221523	Styrol	360pF	±5%	50V
C117	0252811	Electrolytic	1μF		50V	C311	0252522	Electrolytic	22μF	16V	
C118	0245017	Ceramic, discal	0.01μF	±80%	25V	C312	0252522	Electrolytic	22μF	16V	
C119	0245017	Ceramic, discal	0.01μF	±80%	25V	C313	0251973	Electrolytic	0.22μF	25V	
C120	0248632	Ceramic, discal	2pF	±0.25pF	50V	C314	0251973	Electrolytic	0.22μF	25V	
C121	0248635	Ceramic, discal	5pF	±0.25pF	50V	C315	0228331	Styrol	680pF	±5%	50V
C122	0245017	Ceramic, discal	0.01μF	±80%	25V	C316	0228331	Styrol	680pF	±5%	50V
C158	0248639	Ceramic, discal	9pF	±0.25pF	50V	C317	0274315	Mylar, film	4700pF	±10%	50V
<b>for TUNER PRINTED WIRING BOARD</b>					C318	0274315	Mylar, film	4700pF	±10%	50V	
C123	0245018	Ceramic, discal	0.022μF	±80%	25V	C319	0274012	Mylar, film	1500pF	±10%	50V
C151	0275011	Mylar, film	0.01μF	±10%	50V	C320	0274012	Mylar, film	1500pF	±10%	50V
C152	0274315	Mylar, film	4700pF	±10%	50V	C401(L,R)	0252815	Electrolytic	4.7μF	50V	
C153	0228324	Styrol	360pF	±5%	50V	C402(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
C154	0241882	Ceramic, discal	10pF	±1pF	50V	*C403(L,R)	0252522	Electrolytic	22μF	16V	
C155	0252811	Electrolytic	1μF		50V	○C403(L,R)	0252525	Electrolytic	47μF	16V	
C156	0252522	Electrolytic	22μF		16V	C404(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
C157	0245018	Ceramic, discal	0.022μF	±80%	25V	C405(L,R)	1274213	Mylar, film	2200pF	±5%	50V
C201	0275015	Mylar, film	0.047μF	±10%	50V	C406(L,R)	1274236	Mylar, film	8200pF	±5%	50V
C202	0275015	Mylar, film	0.047μF	±10%	50V	C407(L,R)	0248732	Ceramic, discal	220pF	±10%	50V
C203	0252811	Electrolytic	1μF		50V	*C408(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C204	0252813	Electrolytic	3.3μF		50V	○C408(L)	0252623	Electrolytic	33μF	25V	
C205	0244175	Ceramic, discal	0.047μF	±80%	25V	○C408(R)	0275014	Mylar, film	0.033μF	±10%	50V
C206	0244175	Ceramic, discal	0.047μF	±80%	25V	C409(L,R)	0274013	Mylar, film	2200pF	±10%	50V
C207	0252525	Electrolytic	47μF		16V	C410(L,R)	0252521	Electrolytic	10μF	16V	
C208	0244175	Ceramic, discal	0.047μF	±80%	25V	C411	0245018	Ceramic, discal	0.022μF	±80%	25V
C209	0252811	Electrolytic	1μF		50V	C412	0244175	Ceramic, discal	0.047μF	±80%	25V
C210	0244175	Ceramic, discal	0.047μF	±80%	25V	○C603(L,R)	0274014	Mylar, film	3300pF	±10%	50V
C211	0244175	Ceramic, discal	0.047μF	±80%	25V	<b>for AUDIO PRINTED WIRING BOARD</b>					
C212	0252813	Electrolytic	3.3μF		50V	○C501	0252625	Electrolytic	47μF	25V	
C213	0244175	Ceramic, discal	0.047μF	±80%	25V	○C502	0252231	Electrolytic	100μF	6.3V	
C214	0252521	Electrolytic	10μF		16V	○C503	0252633	Electrolytic	330μF	25V	
C215	0248695	Ceramic, discal	300pF	±5%	50V	○C504	0252633	Electrolytic	330μF	25V	
C216	0252811	Electrolytic	1μF		50V	○C505	0244175	Ceramic, discal	0.047μF	±80%	50V
C219	0244175	Ceramic, discal	0.047μF	±80%	25V	○C506	0244175	Ceramic, discal	0.047μF	±80%	50V
C221	0245018	Ceramic, discal	0.022μF	±80%	25V	○C507	0248724	Ceramic, discal	100pF	±10%	50V
C222	0245018	Ceramic, discal	0.022μF	±80%	25V	C601(L,R)	0228325	Styrol	390pF	±5%	50V
C223	0252521	Electrolytic	10μF		16V	C602(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C225	0275014	Mylar, film	0.033μF	±10%	50V	C701(L,R)	0252813	Electrolytic	3.3μF	50V	
C226	0245018	Ceramic, discal	0.022μF	±80%	25V	C702(L,R)	0252813	Electrolytic	3.3μF	50V	
C227	0245018	Ceramic, discal	0.022μF	±80%	25V	*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%	SRD½SD
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
						R253	0114213	Carbon film	33kΩ	±5%	SRD¼P
C713(L,R)	0276013	Mylar, film	0.22µF	±10%	50V	* R254	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
* C714(L,R)	0248720	Ceramic, discal	68pF	±10%	50V	○ R254	0114173	Carbon film	3.3kΩ	±5%	SRD¼P
○ C714(L,R)	0248507	Mylar, film	51pF	±10%	50V	* R255	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
C715	0252331	Electrolytic	100µF		10V	○ R255	0114167	Carbon film	1.8kΩ	±5%	SRD¼P
C716	0252331	Electrolytic	100µF		10V	R256	0114301	Carbon film	680kΩ	±5%	SRD¼P
* C717(L,R)	0248650	Ceramic, discal	10pF	±5%	50V	R257	0114221	Carbon film	68kΩ	±5%	SRD¼P
C801	0245408	Ceramic, discal	0.01µF	±20%	500V	R258	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
C802	0245408	Ceramic, discal	0.01µF	±20%	500V	* R259	0114161	Carbon film	1kΩ	±5%	SRD¼P
C803	0245408	Ceramic, discal	0.01µF	±20%	500V	○ R259	0114153	Carbon film	820Ω	±5%	SRD¼P
C804	0245408	Ceramic, discal	0.01µF	±20%	500V	R260	0114281	Carbon film	100kΩ	±5%	SRD¼P
* C805	0250491	Electrolytic	5600µF		40V						
○ C805	0250488	Electrolytic	6800µF		40V	R262	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
* C806	0250491	Electrolytic	5600µF		40V						
○ C806	0250488	Electrolytic	6800µF		40V	R302	0114219	Carbon film	56kΩ	±5%	SRD¼P
C807	0252635	Electrolytic	470µF		25V	R303	0138121	Carbon film	1kΩ	±5%	SRD¼SD
C808	0252635	Electrolytic	470µF		25V	R304	0114215	Carbon film	39kΩ	±5%	SRD¼P
						R305	0114137	Carbon film	180Ω	±5%	SRD¼P
						R306	0110820	Metal	24kΩ	±1%	RN¼B
<b>for REAR PLATE ASSEMBLY</b>											
C001	0243873	Ceramic, discal	4700pF	+80% -20%	500V						
<b>RESISTORS</b>											
<b>for FRONT END PRINTED WIRING BOARD</b>											
R101	0138203	Carbon film	120kΩ	±5%	SRD¼SD	R308	0114217	Carbon film	47kΩ	±5%	SRD¼P
R102	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD	R309	0114217	Carbon film	47kΩ	±5%	SRD¼P
R103	0138127	Carbon film	1.8kΩ	±5%	SRD¼SD	R310	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
R104	0138051	Carbon film	27Ω	±5%	SRD¼SD	R311	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
R105	0138169	Carbon film	22kΩ	±5%	SRD¼SD	R312	0114213	Carbon film	33kΩ	±5%	SRD¼P
R106	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD	R313	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
R107	0138103	Carbon film	820Ω	±5%	SRD¼SD	R314	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
R108	0138085	Carbon film	150Ω	±5%	SRD¼SD	R315	0114213	Carbon film	33kΩ	±5%	SRD¼P
R109	0138141	Carbon film	6.8kΩ	±5%	SRD¼SD	R316	0114203	Carbon film	12kΩ	±5%	SRD¼P
R110	0138121	Carbon film	1kΩ	±5%	SRD¼SD	R317	0114203	Carbon film	12kΩ	±5%	SRD¼P
R111	0138167	Carbon film	18kΩ	±5%	SRD¼SD	R318	0114285	Carbon film	150kΩ	±5%	SRD¼P
R112	0138081	Carbon film	100Ω	±5%	SRD¼SD	R319	0114201	Carbon film	10kΩ	±5%	SRD¼P
R113	0138085	Carbon film	150Ω	±5%	SRD¼SD	* R320	0134299	Composition	68Ω	±10%	RC¼GF
R114	0138081	Carbon film	100Ω	±5%	SRD¼SD	○ R320	0134298	Composition	56Ω	±10%	RC¼GF
R115	0138059	Carbon film	56Ω	±5%	SRD¼SD						
<b>for TUNER PRINTED WIRING BOARD</b>											
R151	0114201	Carbon film	10kΩ	±5%	SRD¼P	R401(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P
R152	0114165	Carbon film	1.5kΩ	±5%	SRD¼P	R402(L,R)	0114169	Carbon film	2.2kΩ	±5%	SRD¼P
R153	0114131	Carbon film	100Ω	±5%	SRD¼P	R403(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P
R154	0114221	Carbon film	68kΩ	±5%	SRD¼P	R404(L,R)	0114148	Carbon film	510Ω	±5%	SRD¼P
R155	0114287	Carbon film	180kΩ	±5%	SRD¼P	R405(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P
R156	0114161	Carbon film	1kΩ	±5%	SRD¼P	R406(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P
R157	0114153	Carbon film	820Ω	±5%	SRD¼P	R407(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
R158	0114145	Carbon film	390Ω	±5%	SRD¼P	R408(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P
R159	0114203	Carbon film	12kΩ	±5%	SRD¼P	R409(L,R)	0114135	Carbon film	150Ω	±5%	SRD¼P
						R410(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P
R201	0138093	Carbon film	330Ω	±5%	SRD¼SD	R411(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P
R202	0114285	Carbon film	150kΩ	±5%	SRD¼P						
R203	0114169	Carbon film	2.2kΩ	±5%	SRD¼P	R601(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
R204	0138139	Carbon film	5.6kΩ	±5%	SRD¼SD	R602(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P
R205	0114137	Carbon film	180Ω	±5%	SRD¼P	R603(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P
R206	0114183	Carbon film	8.2kΩ	±5%	SRD¼P						
R207	0114217	Carbon film	47kΩ	±5%	SRD¼P	R606(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P
R208	0114169	Carbon film	2.2kΩ	±5%	SRD¼P						
R209	0114203	Carbon film	12kΩ	±5%	SRD¼P						
R210	0114217	Carbon film	47kΩ	±5%	SRD¼P						
R211	0134295	Composition	33Ω	±10%	RC¼GF						
<b>for AUDIO PRINTED WIRING BOARD</b>											
						○ R501	0114205	Carbon film	15kΩ	±5%	SRD¼P
						○ R502	0114205	Carbon film	15kΩ	±5%	SRD¼P
						○ R503	0138089	Carbon film	220Ω	±5%	SRD¼SD
						○ R504	0114285	Carbon film	150kΩ	±5%	SRD¼P
						○ R505	0114205	Carbon film	15kΩ	±5%	SRD¼P
						○ R506	0114173	Carbon film	3.3kΩ	±5%	SRD¼P
						○ R507	0114201	Carbon film	10kΩ	±5%	SRD¼P
						○ R508	0114285	Carbon film	150kΩ	±5%	SRD¼P
						○ 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	<b>for AUDIO PRINTED WIRING BOARD</b>																																						
R703(L,R)	0114217	Carbon film	47kΩ	±5%	SRD¼P	IC701	2367152	HA1452W																																				
R704(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P	○ Q501	2320063	2SC458 (C)																																				
* R705(L,R)	0114211	Carbon film	27kΩ	±5%	SRD¼P	○ Q502	2328083	2SA844 (F)																																				
○ R705(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P	○ Q503	2320063	2SC458 (C)																																				
R706(L,R)	0114153	Carbon film	820Ω	±5%	SRD¼P	○ Q504	2327333	2SC1213 (C)																																				
R707(L,R)	0114203	Carbon film	12kΩ	±5%	SRD¼P	Q701(L,R)	2328261	2SD571 (L)																																				
R708(L,R)	0114167	Carbon film	1.8kΩ	±5%	SRD¼P	Q702(L,R)	2328271	2SB605 (L)																																				
R709(L,R)	0114177	Carbon film	4.7kΩ	±5%	SRD¼P	* Q703(L,R)	2328247	2SB565A (C) -01																																				
R710(L,R)	0114153	Carbon film	820Ω	±5%	SRD¼P	○ Q703(L,R)	2327811	2SA627 (4M)																																				
* R711(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P	* Q704(L,R)	2328227	2SD475A (C) -01																																				
○ R711(L,R)	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	○ Q704(L,R)	2327821	2SD188 (4M)																																				
* R712(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P	Q801	2327802	2SD478 (C)																																				
○ R712(L,R)	0114179	Carbon film	5.6kΩ	±5%	SRD¼P	Q802	2327792	2SB568 (C)																																				
* R715(L,R)	0119046	Metal	27Ω	±10%	RN1B	<b>DIODES</b>																																						
○ R715(L,R)	0110601	Metal	10Ω	±5%	RN¼B	<b>for FRONT END PRINTED WIRING BOARD</b>																																						
* R716(L,R)	0119046	Metal	27Ω	±10%	RN1B	CR101	2337011	1S2076																																				
○ R716(L,R)	0110601	Metal	10Ω	±5%	RN¼B	CR102	0575002	1N34A																																				
* R717(L,R)	0119041	Metal	10Ω	±10%	RN1B	<b>for TUNER PRINTED WIRING BOARD</b>																																						
○ R717(L,R)	0119139	Metal	4.7Ω	±10%	RN2B	CR151	2337011	1S2076																																				
R718(L,R)	0119041	Metal	10Ω	±10%	RN1B	CR201	2337011	1S2076																																				
R719(L,R)	0119426	Metal oxide	270Ω	±10%	RD1PA	CR202	2337011	1S2076																																				
* R721(L,R)	0114143	Carbon film	330Ω	±5%	SRD¼P	○ CR203	2337011	1S2076																																				
○ R721(L,R)	0134361	Composition	100Ω	±10%	RC½GF	CR251	0575002	1N34A																																				
R722	0114281	Carbon film	100kΩ	±5%	SRD¼P	CR252	0575002	1N34A																																				
* R723(L,R)	0114181	Carbon film	6.8kΩ	±5%	SRD¼P	CR253	2337011	1S2076																																				
* R724(L,R)	0114181	Carbon film	6.8kΩ	±5%	SRD¼P	CR301	2337011	1S2076																																				
* R725(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P	CR302	2337011	1S2076																																				
* R726(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P	○ CR501	2337011	1S2076																																				
* R727	0114147	Carbon film	470Ω	±5%	SRD¼P	○ CR502	2337011	1S2076																																				
○ R727	0134059	Composition	560Ω	±5%	RC½GF	○ CR503	2337083	W06C																																				
* R728	0114147	Carbon film	470Ω	±5%	SRD¼P	○ CR504	2337083	W06C																																				
○ R728	0114149	Carbon film	560Ω	±5%	SRD¼P	○ CR505	2337011	1S2076																																				
○ R729(L,R)	0114141	Carbon film	270Ω	±5%	SRD¼P	CR701(L,R)	2347042	MV-5W																																				
○ R730(L,R)	0114141	Carbon film	270Ω	±5%	SRD¼P	* CR703	2347042	MV-5W																																				
○ R731(L,R)	0114049	Carbon film	22Ω	±5%	SRD¼P	* CR801	2327031	V03C																																				
* R731(L)	0114131	Carbon film	100Ω	±5%	SRD¼P	○ CR801-804	2337341	S5VB-20 STACK																																				
* R731(R)	0138081	Carbon film	100Ω	±5%	SRD¼P	* CR802	2327031	V03C																																				
* R732(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P	* CR803	2327031	V03C																																				
○ R732(L,R)	0114217	Carbon film	47kΩ	±5%	SRD¼P	* CR804	2427031	V03C																																				
○ R733(L,R)	0119422	Metal oxide	120Ω	±10%	RD1PA	CR805	2337103	HZ-12 (C)																																				
○ R734(L,R)	0119422	Metal oxide	120Ω	±10%	RD1PA	CR806	2337103	HZ-12 (C)																																				
* R734(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P	○ TH701(L,R)	0576031	13D27																																				
R735	0134362	Composition	120Ω	±10%	RC½GF	<b>for REAR PLATE ASSEMBLY</b>																																						
* R801	0134375	Composition	1.5kΩ	±10%	RC½GF	CR103	2337011	1S2076																																				
○ R801	0134458	Composition	1.5kΩ	±10%	RC½GF	CR104	2337011	1S2076																																				
* R802	0134375	Composition	1.5kΩ	±10%	RC½GF	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">ICs, TRANSISTORS &amp; FET</th> </tr> <tr> <th colspan="4" style="text-align: center;">for FRONT END PRINTED WIRING BOARD</th> </tr> </thead> <tbody> <tr> <td>FET101</td> <td>2327431</td> <td>3SK45</td> <td></td> </tr> <tr> <td>Q101</td> <td>0573510</td> <td>2SC535 (B)</td> <td></td> </tr> <tr> <td>Q102</td> <td>0573507</td> <td>2SC461 (B)</td> <td></td> </tr> <tr> <th colspan="4" style="text-align: center;">for TUNER PRINTED WIRING BOARD</th> </tr> <tr> <td>IC201</td> <td>2367281</td> <td>HA11211</td> <td></td> </tr> <tr> <td>IC301</td> <td>2367271</td> <td>HA1196</td> <td></td> </tr> <tr> <td>IC401</td> <td>2367152</td> <td>HA1452W</td> <td></td> </tr> </tbody> </table>			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	
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IC401	2367152	HA1452W																																										
○ R802	0134458	Composition	1.5kΩ	±10%	RC½GF	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">for REAR PLATE ASSEMBLY</th> </tr> </thead> <tbody> <tr> <td>CR103</td> <td>2337011</td> <td>1S2076</td> </tr> <tr> <td>CR104</td> <td>2337011</td> <td>1S2076</td> </tr> </tbody> </table>			for REAR PLATE ASSEMBLY			CR103	2337011	1S2076	CR104	2337011	1S2076																											
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R001	0139005	Composition	2.7MΩ	±10%	RC½GF	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">for REAR PLATE ASSEMBLY</th> </tr> </thead> <tbody> <tr> <td>CR103</td> <td>2337011</td> <td>1S2076</td> </tr> <tr> <td>CR104</td> <td>2337011</td> <td>1S2076</td> </tr> </tbody> </table>									for REAR PLATE ASSEMBLY			CR103	2337011	1S2076	CR104	2337011	1S2076																					
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R116	0114161	Carbon film	1kΩ	±5%	SRD¼P				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">for REAR PLATE ASSEMBLY</th> </tr> </thead> <tbody> <tr> <td>CR103</td> <td>2337011</td> <td>1S2076</td> </tr> <tr> <td>CR104</td> <td>2337011</td> <td>1S2076</td> </tr> </tbody> </table>						for REAR PLATE ASSEMBLY			CR103	2337011	1S2076	CR104	2337011	1S2076																					
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# HITACHI SR-503/SR-603

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



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 Cable Address : "HITACHY" TOKYO