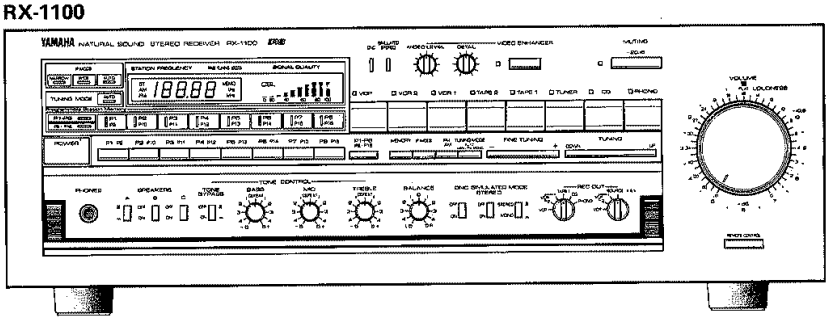
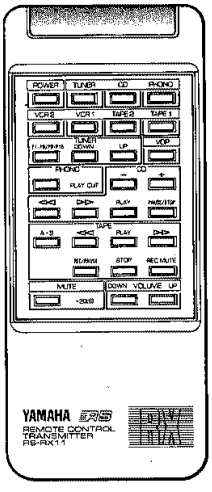
STEREO RECEIVER

RX-1100/U

SERVICE MANUAL

RX-1100





IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherant to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

CONTENTS

100091

SINCE 1887 YAMAHA
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN
1.8k-596 K Printed in Japan, '87.3

■ SPECIFICATIONS

■ AUDIO SECTION

Minimum RMS Output Power per Channel	
20Hz to 20kHz, 0.015% THD, 8Ω	125W
0.03% THD, 8Ω	145W
Dynamic Power Per Channel (by IHF Dynamic Headroom measuring method)	
8Ω	180W
6Ω	220W
4Ω	260W
2Ω	360W
Dynamic Headroom	
8Ω	1.58dB
Power Band Width	
0.1% THD, 62.5W, 8Ω	10Hz ~ 50kHz
Damping Factor	
1kHz, 8Ω	60 or more
Input Sensitivity/Impedance	
Phono MC	160μV/220Ω
MM	2.5mV/47kΩ
CD/TAPE/VDP/VCR	150mV/47kΩ
MAIN IN	1V/47kΩ
Input Sensitivity (New IHF)	
Phono MC	14μV
MM	0.22mV
CD/TAPE/VDP/VCR	13.4mV
Maximum Input Signal Level (1kHz, 0.01% THD)	
Phono MC	8mV
MM	110mV
Output Level/Impedance	
Rec Out	150mV/470Ω
Pre Out	1V/1kΩ
Maximum Voltage Output	
20Hz to 20kHz, 0.01% THD	2.5V
Headphone Jack Rated Output/Impedance	
0.015% THD, 8Ω	0.91V/270Ω
Frequency Response (20Hz to 20kHz)	
CD/TAPE/VDP/VCR, MAIN IN	+0 −0.3 dB
RIAA Equalization Deviation	
30Hz to 20kHz Phono MC	±0.5dB
20Hz to 20kHz Phono MM	±0.3dB
10Hz to 100kHz Phono MM	±0.5dB
Total Harmonic Distortion (20Hz to 20kHz)	
Phono MC to Rec Out (3V)	0.005%
Phono MM (3V)	0.003%
CD/TAPE/VDP/VCR to Sp Out (62.5W/8Ω)	0.015%
VIDEO to SP Out (62.5W/8Ω)	0.02%
Intermodulation Distortion	
CD/TAPE/VDP/VCR (Rated Output/8Ω)	0.01%
Signal to Noise Ratio (IHF-A Network)	
Phono MC (500μV Input Shorted)	75dB
MM (5mV Input Shorted)	92dB
CD/TAPE/VDP/VCR (Shorted)	103dB
VIDEO (Shorted)	91dB
Signal to Noise Ratio (New IHF)	
Phono MC	74.5dB
MM	75dB
CD/TAPE/VDP/VCR	80dB
Residual Noise (IHF-A Network)	120μV
Channel Separation (1kHz, Vol. −30dB)	
Phono MC, MM Input Shorted	60dB
CD/TAPE/VDP/VCR Input 5.1kΩ terminated	60dB
Tone Control Characteristics	
BASS Boost/Cut	±10dB (50Hz)
Turnover Frequency	350Hz
TREBLE Boost/Cut	±10dB (20kHz)
Turnover Frequency	3.5kHz
MID Control Range	±12dB (1kHz)
Center Frequency	1kHz
Filter Characteristics	
Built-in Subsonic Filter	10Hz, −12dB/oct
Continuous Loudness Control (Level related equalization)	−40dB (1kHz)
Audio Muting	−20dB

■ VIDEO SECTION

Type	NTSC Standard
Horizontal Resolution	525 lines, 60 field
Video Input	1.0 Vp-p, 75Ω, Unbalanced
Video Output	1.0 Vp-p, 75Ω, Unbalanced
Maximum Input Level	1.5Vp-p, 75Ω, Unbalanced
Video Signal to Noise Ratio	52dB
Detail Control Level	0 to +4dB (1MHz)
Video Level Control	−3 to +3dB

■ FM SECTION

Tuning Range	87.5 to 108MHz
50dB Quieting Sensitivity (IHF), 75Ω	
Mono	1.5μV (14.8dBf)
Stereo	20μV (37.3dBf)
Usable Sensitivity (30dB S/N Quieting)	0.75μV (8.3dBf)
75Ω, 1kHz, 100% Mod.	
Image Response Ratio	40dB
IF Response Ratio	90dB
Spurious Response Ratio	70dB
AM Suppression Ratio	58dB
Capture Ratio	
LOCAL	1.2dB
DX	2.8dB
Alternate Channel Selectivity	85dB
Signal to Noise Ratio (IHF)	
Mono	85dB
Stereo	81dB
Harmonic Distortion	
Mono 100Hz	0.05%
1kHz	0.05%
6kHz	0.1%
Stereo 100Hz	0.07%
1kHz	0.07%
6kHz	0.15%
Stereo Separation	
50Hz	45dB
1kHz	54dB
10kHz	45dB
Frequency Response	
30Hz to 13kHz	0 ± 0.5dB

■ AM SECTION

Tuning Range	
U, C models	530 to 1620kHz
A, R models	531 to 1620kHz
Usable Sensitivity	250μV/m
Selectivity	24dB
Signal to Noise Ratio	50dB
Image Response Ratio	40dB
Spurious Response Ratio	50dB
Harmonic Distortion	0.3%

■ AUDIO SECTION

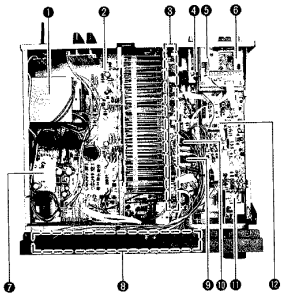
Output Level/Impedance	
FM (100% Mod., 1kHz)	500mV/2.8kΩ
AM (30% Mod., 400Hz)	150mV/2.8kΩ

■ GENERAL

Power Supply	
U, C models	AC120V, 60Hz
A model	AC240V, 50Hz
R model	AC110/120/220/240V, 50/60Hz
Power Consumption	
U, C models	500W
A model	640W
R model	400W
AC Outlet	
Switched	60W max. (U, C, A) 100W max. (R)
Unswitched	200W max.
Dimensions (W x H x D)	435 x 151x 423 mm (17-1/8" x 5-15/16" x 16-16-5/8")
Weight	12 kg (26 lbs. 7 oz.)

Specifications subject to change without notice.
U ..... U.S.A. model
C ..... Canadian model
A ..... Australian model
R ..... General model

■ INTERNAL VIEW



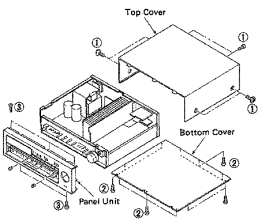
❶ POWER TRANSFORMER
U.S.A. model: XC107001
Canadian model: XC109001
Australian model: XC108001
Other model: XC106001
❷ MAIN CIRCUIT BOARD (1)
❸ CONTROL CIRCUIT BOARD (2)
❹ MAIN CIRCUIT BOARD (7)
❺ MAIN CIRCUIT BOARD (8)
❻ FRONT END PACK
❼ MAIN CIRCUIT BOARD (3)
❽ KEYBOARD CIRCUIT BOARD
❾ PLL IC: LC7210
❿ CSL CONTROLLER IC: LC6510C-3232
⓫ POTENTIOMETER WITH MOTOR
⓬ CONTROL CIRCUIT BOARD (1)

■ DISASSEMBLY PROCEDURES

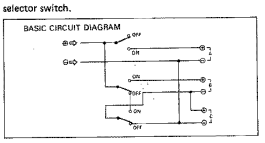
1. **Removal of Top Cover**
Remove 6 screws (①) in Fig. 1, and Slide the Top Cover back and up.

2. **Removal of Bottom Cover**
Remove 10 screws (②) in Fig. 1.

3. **Removal of Panel Unit**
a. Remove the knobs.
b. Remove 5 screws (③) in Fig. 1, and pull the Panel Unit forward.



SPEAKER SELECTION SWITCHES
The B Speaker and C Speaker terminals are configured in series (please refer to the Basic Circuit Diagram). When using either the B or C Speaker terminals independently of the other, it is necessary that the terminals not being used are turned OFF with the front panel speaker selector switch.

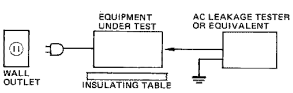


■ TO SERVICE PERSONNEL

1. Critical Components Information.
Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

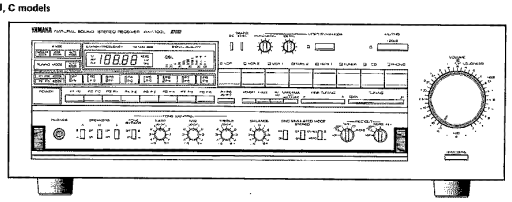
2. Leakage Current Measurement (For 120V Model Only).
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.
- **POLARIZATION (U, C models only)**
This tuner product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

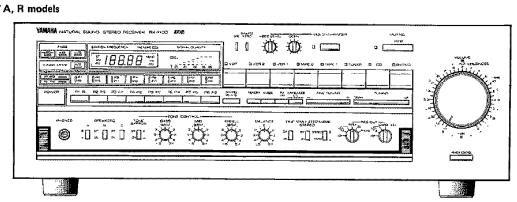


■ FRONT PANELS

▼U, C models

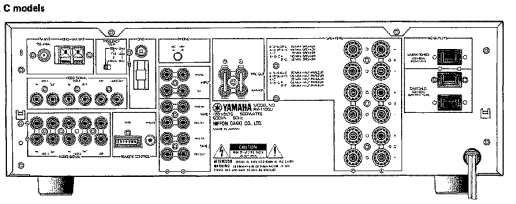


▼A, R models

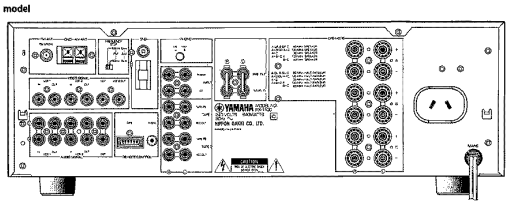


■ REAR PANELS

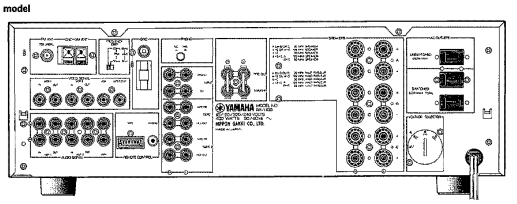
▼U, C models



▼A model



▼R model



Step	Item to be Adjusted	Connection terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard	Remarks
5	Separation	300Ω FM ANT	FM SG, SSG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) STEREO L, R 1kHz, 100% MOD]	VR501 (SEPARATION)	Reduce output level to minimum.	Separation more than 40dB	
		REC OUT L, R	ACVM L.P.F.				
6	Confirmation of Full-scale signal quality level	300Ω FM ANT	FM SG, SSG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) STEREO L, R 1kHz, 100% MOD]	SIGNAL QUALITY indicator	Confirm that all signal quality indicators light up.		Confirm that all signal quality indicators goes out at detuned point.
7	IF Offset	300Ω FM ANT	FM SG. [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) STEREO L, R 1kHz 30% MOD]	VR502 (IF OFFSET) Frequency display	By shorting across terminals K4 and T6, the frequency display shifts 1 digit. Therefore, adjust VR102 until 10kHz digit becomes 9 or 0.		After adjustment open across K4 and T6.
		K4 ~ T6	Short				
8	Confirmation of auto search reception	300Ω FM ANT	FM SG [98MHz ± 1kHz 20dBμ (81.2dBf, 10.0μV/75Ω) MONO 1kHz 100% MOD]	TUNING key UP or DOWN	Confirm that auto search reception is possible with the tuning key.		Confirm that muting is performed at auto reception.

Note: X dBμ = X + 5.2dBμf

- Shorting K4 and T6 while set at FM will result in automatic memory of each preset from P1/P8 to P9/P16 as given in the right table. This is convenient when making an adjustment.

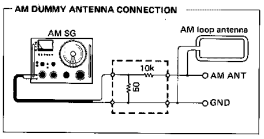
P1/P9	P2/P10	P3/P11	P4/P12	P5/P13
AM 630kHz	AM 1080kHz	AM 1440kHz	FM 87.5MHz	FM 95.1MHz

P6/P14	P7/P15	P8/P16
FM 98.1MHz	FM 101.5MHz	FM 108.0MHz

< AM TUNER SECTION >

- Connect the AM loop antenna to the AM ANT terminals.
- Connect the AM dummy antenna for adjustment.

AM DUMMY ANTENNA CONNECTION



Step	Item to be Adjusted	Connection terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard
1	AM IFT	AM ANT	AM SG AM dummy antenna [630kHz ± 0.1kHz 60dBμ (61.2dBf, 316μV/75Ω) 400Hz, 30% MOD]	T502	Adjust T502 to maximize detector output.	
		REC OUT	ACVM			
2	Confirmation of sensitivity	AM ANT	AM SG AM dummy antenna [630kHz ± 0.1kHz 1080kHz ± 0.1kHz 1440kHz ± 0.1kHz 400Hz, 30% MOD]	PRESET STATION key P1/P9 P2/P10 P3/P11	Obtain AM SG output level where distortion become 10%.	Less than 58dBμ
		REC OUT	ACVM DST. M.			

Step	Item to be Adjusted	Connection terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard
3	Confirmation Full-scale signal quality level	AM ANT	AM SG, AM dummy antenna [1080kHz ± 0.1kHz 90dBμ (101.2dBf, 31.6mV/75Ω) 400Hz, 30% MOD	PRESET STATION key P2/P10 SIGNAL QUALITY indicator	Confirm that all signal quality indicators light up.	
4	Confirmation of auto search reception	AM ANT	AM SG AM dummy antenna [1080kHz ± 0.1kHz 60dBμ (71.2dBf, 1.0mV/75Ω) 400Hz, 30% MOD	TUNING key UP or DOWN	Confirm the auto search reception with the tuning key	

< DIGITAL CONTROL SECTION >

Step	Confirmation item	Connection terminal	Instrument required	Operation key	Confirmation method
1	Preset memory	300Ω FM ANT	FM SG, SSG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) STEREO L, R 1kHz, 100% MOD]	FUNCTION key TUNING MODE key TUNING key (UP or DOWN) MEMORY key PRESET STATION key P1-P8/P9-P16	① Receive FM 98MHz by means of auto search. ② Set P1-P8 → P1-P8 indicator lights. ③ Press MEMORY key → MEMORY indicator flashes about 5 seconds. ④ Press P1 → MEMORY indicator goes OFF P1 of PRESET STATION indicator lights.
		AM ANT	AM SG AM dummy antenna [1080kHz ± 0.1kHz 80dBμ (81.2dBf, 10.0mV/75Ω) 400Hz, 30% MOD]		⑤ Receive AM 1080kHz ⑥ Press MEMORY key → MEMORY indicator flashes about 5 seconds. ⑦ Press P2 → MEMORY indicator goes OFF P2 of PRESET STATION indicator lights.
		300Ω FM ANT AM ANT	FM SG, SSG AM SG AM dummy antenna		⑧ Press P1 and P2 and check that content is read out. → P1 and P2 of PRESET STATION indicator lights. ⑨ Set P9-P16 → P9-P16 indicator flashes. ⑩ Press MEMORY key → MEMORY indicator flashes. ⑫ Press P9 → MEMORY indicator goes OFF. P9-P16 indicator lights. P9 indicator lights. ⑬ Press P9 and check that content is read out.
2	Tuning mode	Same as step 1	Same as step 1	FUNCTION key TUNING MODE key TUNING key (UP or DOWN) PRESET STATION key P1, P2	Tune to FM 98MHz and AM 1080kHz, and check that when receiving MAN'L/MONO, FM reception become forced mono. TUNING MODE indicator → Goes out ST indicator → Goes out. Check that tuning operation stops when tuned while AUTO searching. TUNING MODE indicator → lights up ST indicator → lights up
3	Fine Tuning	Same as step 1	Same as state 1	PRESET STATION key P1, P2 FINE TUNING key (+ or —)	① Press P1 and content is read out (FM) ② Press FINE TUNING key → FINE TUNING indicator lights. ③ Press FINE TUNING key and check that 10kHz step seach. ④ Press P2 and content is read out (AM) ⑤ Press FINE TUNING key and check that 1kHz step seach.
4	Receiving Mode			PRESET STATION key P1 RECEIVING MODE key	① Press P1 and content is read out (FM) ② Press RECEIVING MODE key → The following 3 states are switched and each indicator lights up. → AUTO → DX → LOCAL —
6	Last channel memory			POWER key	① Read out P1. ② Turn OFF POWER key. ③ Turn ON POWER key after 5 seconds. ④ P1 content should come on. P1 of PRESET STATION indicator lights.

■ ADJUSTMENTS

1. Before adjustment

1) After the power switch is pushed on, wait for 5 minutes before measuring, to be sure of the most stable operation.
2) Adjust the OSC coil and IFT with a nonferrous screw driver.
3) Set the switches to the following positions.
   TUNING MODE . . . . . AUTO
   IF MODE . . . . . AUTO
4) Proceed with the AM section adjustments after having finished the FM section adjustment.
5) 0dBμ = 1μV Ex: 60dBμ = 1mV

2. Measuring instruments abbreviation

FM SG : FM signal generator
SSG : Stereo signal generator
AM SG : AM signal generator
DIST. M : Distortion meter
ACVM : AC voltmeter
DCVM : DC voltmeter

<POWER SUPPLY CHECK>

Check that the following voltages are obtained respectively across each test point and ground.

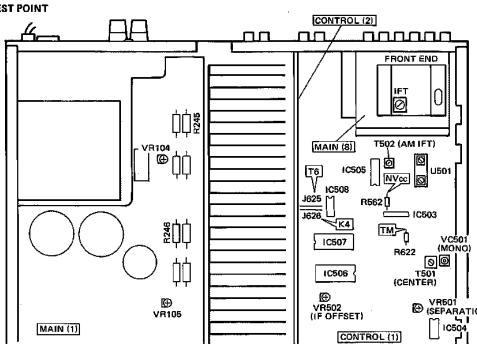
Test Point		Rating or Standard	Remark
Main Circuit Board	Q152 EMITTER	+12V ± 1V	Make sure that AC line voltage comes within: Models U, C: 120V ± 10%; Models A: 240V ± 10%
	Q153 EMITTER	−12V ± 1V	
	Q154 EMITTER	+6.5V ± 1V	
	Q155 EMITTER	+6.5V ± 1V	
Control Circuit Board	Q560 EMITTER	+6V ± 1V	

• IDLING CURRENT ADJUSTMENT

After the power has been turned on, age about 2 minutes in no signal and non-loaded condition. Adjust VR104 (Lch) and VR105 (Rch) so that the voltage across the terminals of R245 (Lch) and R246 (Rch) comes to 10mV ± 1mV DC.

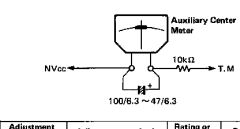
Item to be Adjusted	Test Points	Adjustment Points	Rating
Idling Current	Lch: Across the terminals of R245 Rch: Across the terminals of R246	VR104 (Lch) VR105 (Rch)	10mV ± 1mV DC.

• TEST POINT



< FM TUNER SECTION >

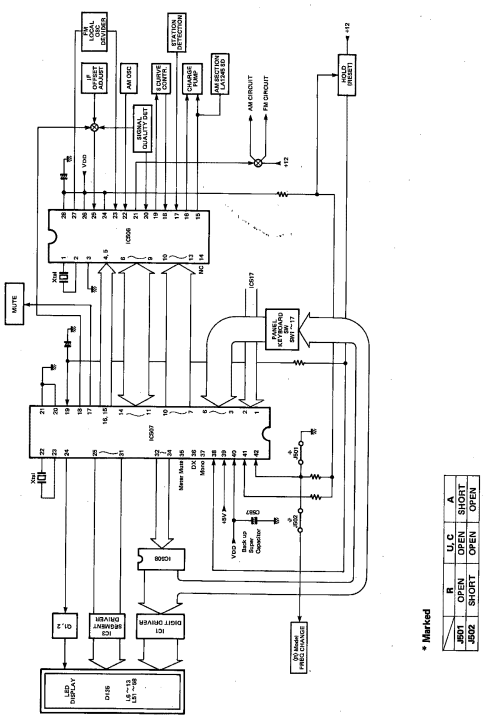
- Use 19kHz L.P.F. to measure the REC OUT.
- On step 1 and 2 connect an auxiliary center meter (ji00036 or similar) to confirm the best tuned point.
- 100% modulation means that the Frequency Deviation is ±75kHz.



Step	Item to be Adjusted	Connection terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard	Remarks
1	Discriminator balance	NVcc ~ T.M	Auxiliary center meter	T501 (CENTER)	Adjust the pointer of the auxiliary center meter point to "0" at detuned point.		After the adjustment of step 1 to 5, confirm it again.
2	Confirmation of station center set	300Ω FM ANT	FM SG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) MONO 1kHz 100% MOD]	TUNING key → UP or DOWN	Confirm that the auxiliary center meter deflects to "0" when tuned to signal of FM SG.		
		NVcc ~ T.M	Auxiliary center meter				
3	Monaural distortion	300Ω FM ANT	FM SG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) MONO 100Hz 100% MOD]	VC501 (MONO)	Reduce distortion to minimum.	Less than −66dB	Reception should be made in LOCAL mode.
		REC OUT L, R	DIST. M L.P.F.				
4	Stereo distortion	300Ω FM ANT.	FM SG, SSG [98MHz ± 1kHz 70dBμ (81.2dBf, 3.16mV/75Ω) STEREO L, R 1kHz, 100% MOD]	Front end IFT ST indicator	Same as step 3	Less than −66dB	Confirm that ST indicator lights up. Reception should be made in LOCAL mode.
		REC OUT L, R	DIST. M L.P.F.				

RX-1100/U

• Block Diagram of Microcomputer Peripheral Circuit



* Marked

	A	U, C	R	J001	J002
J001	OPEN	OPEN	SHORT		
J002	SHORT	OPEN	OPEN		

• IC517: A. V Controller 3203 (LC6505C-3203)

1-chip type 4-bit microcomputer witch incorporates 1024 x 8 bit ROM (for programming) and 64 x 4 bit RAM (for data memory)

Terminal No.	Description	I/O	Function
1	PA_2	IN	INPUT port $A_0 \sim A_3$ Input by 4 bit and decision by 1 bit for branch are possible. Also used for HALT mode cancel request input.
2	PA_3		
3	PB_0	IN	INPUT port $B_0 \sim B_3$ Input by 4 bit and decision by 1 bit for branch are possible.
4	PB_1		
5	PB_2		
6	PB_3		
7	PC_0	IN/ OUT	IN/OUT common port $C_0 \sim C_3$ When INPUT, input by 4 bit and decision by 1 bit for branch are possible. When OUTPUT, output by 4 bit and set or reset by 1 bit are possible.
8	PC_1		
9	PC_2		
10	PC_3		
11	PC_0	IN/ OUT	IN/OUT common port $D_0 \sim D_3$ When INPUT, input by 4 bit and decision by 1 bit for branch are possible. When OUTPUT, output by 4 bit and set or reset by 1 bit are possible.
12	PD_1		
13	PD_2		
14	PD_3		
15	PE_0	OUT	OUTPUT port $E_0 \sim E_3$ Output by 4 bit and set or reset by 1 bit are possible. Input of output latch content by 4 bit and decision of output latch by 1 bit for branch are possible.
16	PE_1		
17	PE_2		
18	PE_3		
19	$\overline{RES}$	IN	Reset input terminal
20	TEST	IN	LSI test terminal usually connected to Vss (0V).
21	Vss	–	Connected to 0V of power supply.
22	OSC 1	IN	Used by supplying external clock. Also used with OSC2 terminal and C.R. ceramic oscillator when using internal clock oscillation.
23	OSC 2	OUT	Attached to oscillatory circuit for internal clock oscillation.
24	PF_0	OUT	OUTPUT port $F_0 \sim F_3$ Output by 4 bit and set or reset by 1 bit are possible. Input of output latch content by 4 bit and decision of output latch by 1 bit for branch are possible.
25	PF_1		
26	PF_2		
27	PF_3		
28	PG_0	OUT	OUTPUT port $G_0 \sim G_3$ Output by 4 bit and set or reset by 1 bit are possible. Input of output latch content by 4 bit and decision of output latch by 1 bit for branch are possible.
29	PG_1		
30	PG_2		
31	PG_3		
32	PH_0	OUT	OUTPUT port $H_0 \sim H_3$ Output by 4 bit and set or reset by 1 bit are possible. Input to output latch content by 4 bit and decision of output latch by 1 bit for branch are possible.
33	PH_1		
34	PH_2		
35	PH_3		
36	PI_0	OUT	OUTPUT port I_0, I_1 Output by 2 bit and set or reset by 1 bit are possible. Input of output latch content by 2 bit and decision of output latch by 1 bit for branch are possible.
37	PI_1		
38	$\overline{HOLD}$	IN	HOLD mode request input terminal
39	$\overline{INT}$	IN	Interrupt request input terminal
40	V_{DD}	IN	Power supply terminal usually connected to +5V terminal.
41	PA_0	IN	INPUT port $A_0 \sim A_3$ Input by 4 bit and decision by 1 bit branch are possible. Also used for HALT mode cancel request input.
42	PA_1		

RX-1100/U

RX-1100/U

■ LSI DATA

• IC506: LC7210

This is the CMOS LSI utilized to tune the CSL (Computer Servo Lock) tuning system for FM/AM radio which has realized stable station selection by PLL (Phase Locked Loop) synthesizer, precise automatic station search (applicable to all areas of the world and multiple bands) by SLS (Signal Locked Loop) voltage synthesizer, and optimum tuning point reception by AFC operation.

When combined with a prescaler (÷100), this LSI can be controlled by a 4-bit microcomputer in the controller.

The functions are;

- SLS auto search control
- PLL control
- Analog switch for S-curve AFC
- Station-originated frequency counter
- Data generation for FM band IF offset adjustment (5 bits)

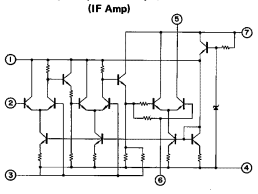
Terminal No.	Description	I/O	Function
1	Xin	IN	Oscillation terminals. By connecting Quartz across Xin and Xout, and load capacity across both terminals and Vss, basic clock signal is generated (32kHz).
2	Xout	OUT	
3	Vss	–	Ground terminal.
4	DI/DO	IN	Pull-up feature. Input terminal which controls whether data terminal ($D_0 \sim 3$) signal is input mode (DI/DO = 1) or output mode, (DI/DO = 0).
5	STB	IN	Pull-up feature. Determines the timing of internal latch, FF clock pulse and set/reset signal which are determined by control input ($D_0 \sim 3$).
6	D_3	I/O	I/O terminals. Push-pull output. Transfers (DI/DO = 1) data to internal data bus (4 bits) or outputs the contents of internal data bus.
7	D_2		
8	D_1		
9	D_0		
10	C_3	IN	Pull-up feature. Input used to create signal which specifies which logic is to be connected with internal data bus.
11	C_2		
12	C_1		
13	C_0		
14	M/L	OUT	Outputs "1" only when received band is AM NC.
15	PLL	OUT	Push-pull. Outputs "1" while PLL operation is made.
16	Sout	OUT	Tri-state. Connected with push-pull output and analog switch. • PLL mode: Charge pump output can be obtained. • SEARCH mode: Auto search output can be obtained. • AFC mode: Conducts to Sin terminal via analog switch. High impedance state in other modes
17	$\overline{SD}$	IN	Controls whether reception is made by SL1 or PLL when FM is received.
18	Sin	IN	Connected with analog switch or comparator input. • AFC mode: Conducts to Sout terminal via analog switch and makes reception by AFC. • AUTO SEARCH mode: Discriminates S signal between SH and SL via wind comparator and uses as input which controls search speed limit and stop.
19	AFC	OUT	Outputs "1" in AFC mode, Outputs "0" in other than AFC mode.
20	SMK	IN	Prohibits search stop and speed control by SH and SL in AUTO SEARCH mode (*1-1). Controls when "0" is input.
21	F/A	OUT	Band data output terminal. Outputs "1" in FM mode.
22	Ain	IN	AM (FM) local oscillator frequency input terminal. Pull down transistor is turned on in FM mode.
23	Fin	IN	1/100 dividing output of AM (FM) local oscillator frequency is input. Pull-down transistor is turned off in FM mode in which reception is not made by AFC.
24	VDD	–	Power source +5V
25	A/D	IN	Input used to generate data for compensating the shift of center frequency of FM IF filter.
26	Vref	–	Power source for setting wind comparator level (Sin) and power source for A/D converter ladder network of FM fine.
27	$\overline{FIC}$	OUT	Outputs "0" when PLL or counter is operated in FM mode. Outputs "1" in other case (other than when reception is made in FM mode, and other than in FM mode).
28	LOC	I/O	Detects the locking of CSL operation, connected with CR integration circuit. Judges at LOCK state when "1" is input and at UNLOCK state when "0" is input.

• IC507: CSL Controller 3232 (LC5510C-3232)

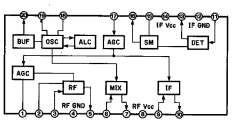
1-chip type 4-bit microcomputer which incorporates 4096 x 8 bit ROM (for programming) and 256 x 4 bit RAM (for data memory)

Terminal No.	Description	I/O	Function
1	PA2 TU2	IN	REMOTE CONTROL SIGNAL INPUT (1 pin / 2 pin: 0 = NOT USED; 1 = CH UP / CH DOWN; 0 = A/B CHANGE)
2	PA3 TU1	IN	
3	PB_0 K1	IN	Key matrix input. Judges the switches 1 to 17.
4	PB_1 K2	IN	
5	PB_2 K3	IN	
6	PB_3 K4	IN	
7	PC_0 C0	OUT	Control output. Specifies which logic of LC7210 is connected with data bus.
8	PC_1 C1	OUT	
9	PC_2 C2	OUT	
10	PC_3 C3	OUT	
11	PD_0 D0	I/O	Data bus. Sends and receives data to and from LC7210.
12	PD_1 D1	I/O	
13	PD_2 D2	I/O	
14	PD_3 D3	I/O	
15	PE_0 STB	OUT	Strobe output.
16	PE_1 DI/DO	OUT	Specifies the direction of I/O of data bus.
17	PE_2 MUT	OUT	Muting output, +4.5V (reference value) in MUTING mode.
18	PE_3 A/D	OUT	Signal Quality/IF Offset select. Signal Quality at "1" IF Offset at "0".
19	RES	IN	Reset input, +5V in normal condition.
20	TEST	–	
21	Vss	–	Power ground.
22	OSC1	IN	Terminals for clock oscillating circuit.
23	OSC2	OUT	
24	PF_0 h	OUT	Display, segment output, h segment, g segment, f segment, e segment, d segment, c segment, b segment, a segment.
25	PF_1 G	OUT	
26	PF_2 F	OUT	
27	PF_3 E	OUT	
28	PG_0 D	OUT	
29	PG_1 C	OUT	
30	PG_2 B	OUT	
31	PG_3 A	OUT	
32	PH_0 TA	OUT	Display, digit output,
33	PH_1 TB	OUT	
34	PH_2 TC	OUT	
35	PH_3 Mute	OUT	Meter Mute Control
36	P_0 DX	OUT	DX Mode Control
37	P_1 MONO	OUT	Mono Mode Control
38	HOLD	IN	Hold mode demand input terminal.
39	INT	–	Not used (Pull up to +5V)
40	VDD	–	Power source +5V
41	PA_0 A0	IN	Destination symbol. (41 pin / 42 pin: 0 = U; 1 = U AM 9K / U AM 10K)
42	PA_1 A1	IN	

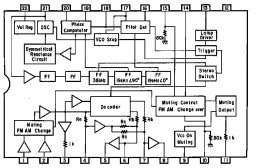
IC501, 502: μPC577H (E, F)
(IF Amp)



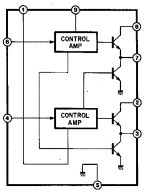
IC505: LA1245
(IF Amp)



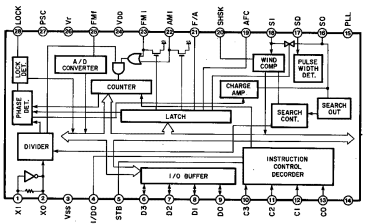
IC504: LA3401
(MPX)



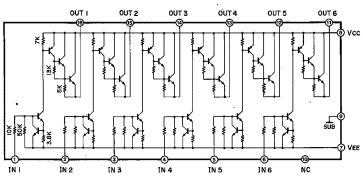
IC518: M54542
(Motor Driver)



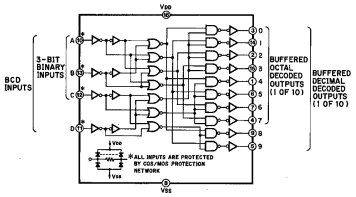
IC506: LC7210
(PLL)



IC514, 515: LB1294
(LED Driver)



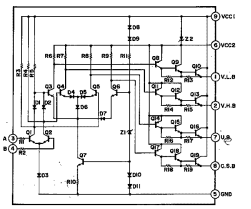
IC508: TC4028BP or BU4028B
(Decimal Decoder)



Data Table

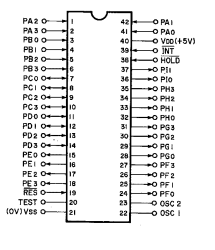
D	C	B	A	0	1	2	3	4	5	6	7	8	9
0	0	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	1	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0	0	0	0	0	0	0
0	0	1	1	0	0	0	1	0	0	0	0	0	0
0	1	0	0	0	0	0	0	1	0	0	0	0	0
0	1	0	1	0	0	0	0	0	1	0	0	0	0
0	1	1	0	0	0	0	0	0	0	1	0	0	0
0	1	1	1	0	0	0	0	0	0	0	1	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1	0
1	0	0	1	0	0	0	0	0	0	0	0	0	1
1	0	1	0	0	0	0	0	0	0	0	0	0	0
1	0	1	1	0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	1	0	0	0	0	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	0	0	0	0	0	0	0	0	0	0

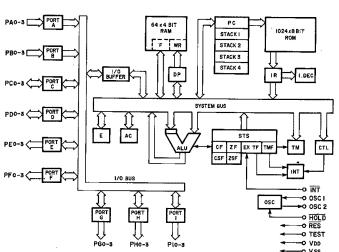
IC516: LA7910
(Switch)



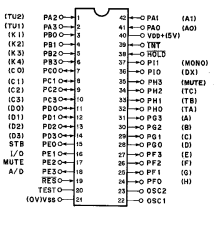
■IC BLOCK

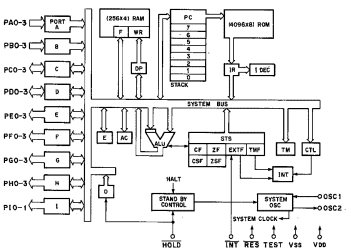
IC517: LC6505C-3203
(4 bit μ-COM)



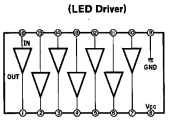


IC507: LC6510C-3232
(4 bit μ-COM)

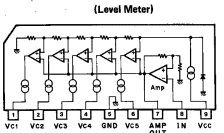




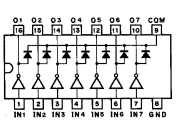
IC1: BA618
(LED Driver)



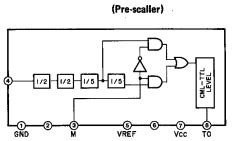
IC3: LB1413
(Level Meter)



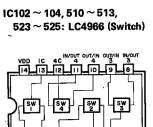
IC2: M54526P, LB1234 or BA12004
(LED Driver)



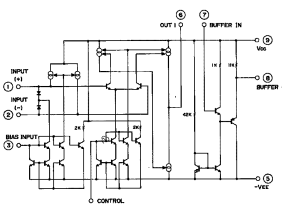
IC101: M54459L
(Pre-scaller)



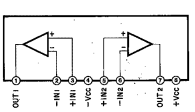
IC102 ~ 104, 510 ~ 513,
523 ~ 525: LC4966 (Switch)



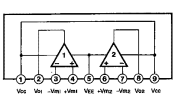
IC106, 107: BA6110
(Noise Canceller)



IC105: M5220L
IC522, 526, 527: M5218L (V)
IC509: NJM4560S



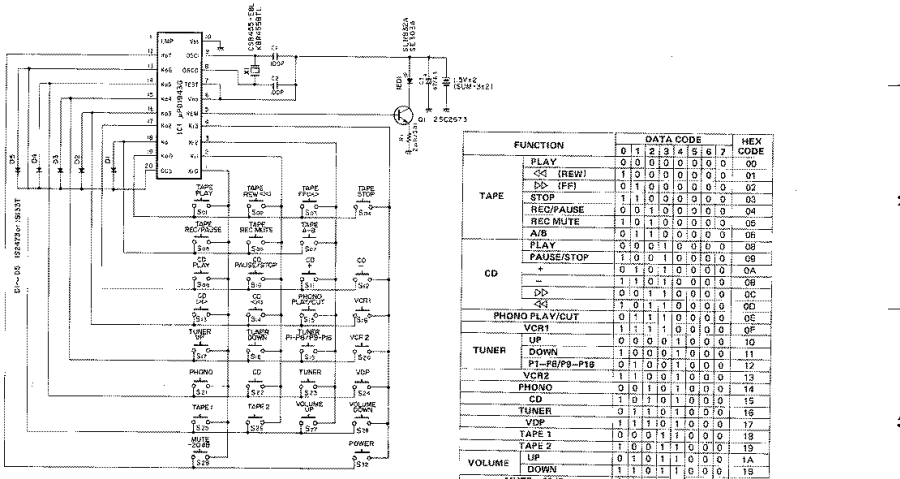
IC503, 519 ~ 521: NJM4558S
(Dual Ope-amp)



RX-1100/U

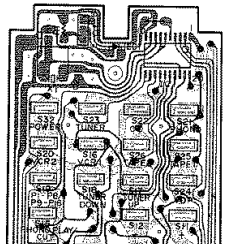
RS-RX11
REMOTE CONTROL TRANSMITTER

■ SCHEMATIC DIAGRAM

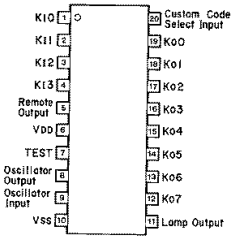


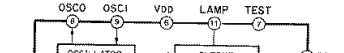
FUNCTION		DATA CODE 0	1	2	3	4	5	6	7	HEX CODE
TAPE	PLAY	0	0	0	0	0	0	0	0	00
	◁◁ (REW)	1	0	0	0	0	0	0	0	01
	▷▷ (FF)	0	1	0	0	0	0	0	0	02
	STOP	1	1	0	0	0	0	0	0	03
	REC/PAUSE	0	0	1	0	0	0	0	0	04
	REC MUTE	1	0	1	0	0	0	0	0	05
	A/B	0	1	1	0	0	0	0	0	06
CD	PLAY	0	0	0	1	0	0	0	0	08
	PAUSE/STOP	1	0	0	1	0	0	0	0	09
	+	0	1	0	1	0	0	0	0	0A
	−	1	1	0	1	0	0	0	0	0B
	▷▷	0	0	1	1	0	0	0	0	0C
	◁◁	1	0	1	1	0	0	0	0	0D
PHONO PLAY/CUT		0	1	1	1	0	0	0	0	0E
VCR1		1	1	1	1	0	0	0	0	0F
TUNER	UP	0	0	0	0	1	0	0	0	10
	DOWN	1	0	0	0	1	0	0	0	11
	P1–P8/P9–P16	0	1	0	0	1	0	0	0	12
VCR2		1	1	0	0	1	0	0	0	13
PHONO		0	0	1	0	1	0	0	0	14
CD		1	0	1	0	1	0	0	0	15
TUNER		0	1	1	0	1	0	0	0	16
VDP		1	1	1	0	1	0	0	0	17
TAPE 1		0	0	0	1	1	0	0	0	18
TAPE 2		1	0	0	1	1	0	0	0	19
VOLUME	UP	0	1	0	1	1	0	0	0	1A
	DOWN	1	1	0	1	1	0	0	0	1B
MUTE −20dB		0	0	1	1	1	0	0	0	1C
POWER		1	1	1	1	1	0	0	0	1F
CUSTOM CODE		0	1	0	1	1	1	1	0	7A

■ PRINTED CIRCUIT BOARD (Pattern side)



IC1 : μPD1943G

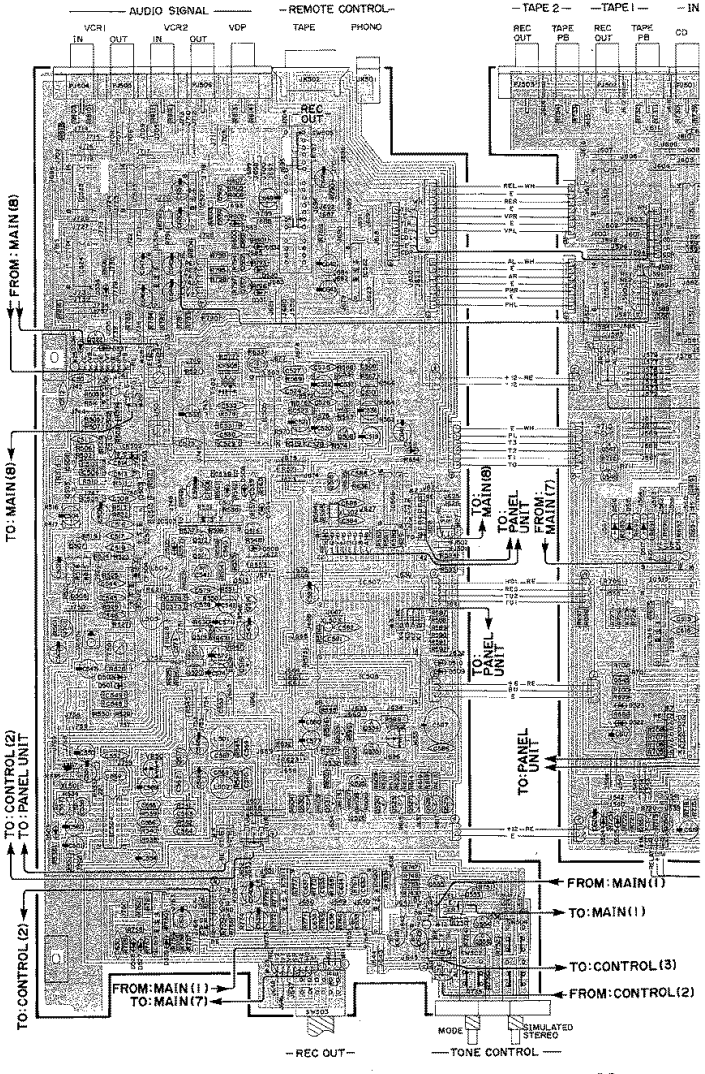




■ PRINTED CIRCUIT BOARD (Pattern side)

Control Circuit E

Control Circuit Board (1)



■PRINTED CIRCUIT BOARD(Pattern side)

Keyboard Circuit Board

Remote Control Circuit Board

■PRINTED CIRCUIT BOARD(Pattern side)

Main Circuit Board (2)

Main Circuit Board (3)

Main Circuit Board (3)

Main Circuit Board (3)

Main Circuit Board (8)

Main Circuit Board (7)

Main Circuit Board (9)

Main Circuit Board (10)

■PRINTED CIRCUIT BOARD(Pattern side)

Note) * marked

	R	U, C	A
C180	10/16	OPEN	OPEN
D111	HZ12A3	OPEN	OPEN
Q158	2SA1015 (Y)	OPEN	OPEN
Q157	2SD1469	OPEN	OPEN
J139, 103	OPEN	SHORT	SHORT
R273, 274	4.7k	OPEN	OPEN
R272	OPEN	1/2P 2.2M	OPEN
C179	100/63	470/25	470/25
F102	T5.0A 250V	OPEN	OPEN
F101	10A 250V	10A 250V	T4.0A 250V
T101	XC115001	XC116001	XC117001
SW101	KA401690	OPEN	OPEN
D128 ~ 130	1SR35-100AT-93X	OPEN	OPEN

Main Circuit Board (1)

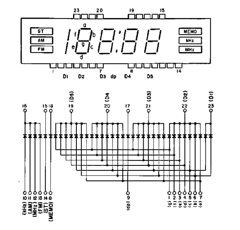
Main Circuit Board (4)

Main Circuit Board (5)

Main Circuit Board (6)

■ CIRCUIT DATA

• Frequency Display



Pin No.	Function	
1	segment "g"	Anode
2	segment "f"	Anode
3	segment "e"	Anode
4	segment "d"	Anode
5	segment "c"	Anode
6	segment "b"	Anode
7	segment "a"	Anode
8	"MEMO"	Anode
9	decimal point	Anode
10	"kHz"	Anode
11	"AM"	Anode
12	"MHz"	Anode
13	"FM"	Anode
14	"ST"	Anode
15	"ST"	Cathode
16	"AM" "FM" "kHz" "MHz"	Cathode
17	decimal point	Cathode
18	"MEMO"	Cathode
19	digit "5"	Cathode
20	digit "4"	Cathode
21	digit "3"	Cathode
22	digit "2"	Cathode
23	digit "1"	Cathode

• MATRIX OF DISPLAY (Frequency Display, L6 ~ L13, L51 ~ L58)

IC507 / IC508	A [31 Pin]	B [30 Pin]	C [29 Pin]	D [28 Pin]	E [27 Pin]	F [26 Pin]	G [25 Pin]	H [24 Pin]
T6 [4 Pin]	D5 a	D5 b	D5 c	D5 d	D5 e	D5 f	D5 g	
T5 [7 Pin]	D4 a	D4 b	D4 c	D4 d	D4 e	D4 f	D4 g	
T4 [1 Pin]	D3 a	D3 b	D3 c	D3 d	D3 e	D3 f	D3 g	FM DOT
T3 [1 Pin]	D2 a	D2 b	D2 c	D2 d	D2 e	D2 f	D2 g	P9–16 (L7)
T2 [15 Pin]	LOCAL (L8)	D1 b	D1 c	AUTO RX (L9)	DX (L10)	AUTO (L11)		P1–8 (L6)
T1 [2 Pin]	P-1/9 (L51)	P-2/10 (L52)	P-3/11 (L53)	P-4/12 (L54)	P-5/13 (L55)	P6/14 (L56)	P-7/15 (L57)	P8/16 (L58)
T0 [14 Pin]	MEMO	CSL (L12)	kHz	AM	MHz	FM		FINE (L13)

• MATRIX OF INPUT KEY

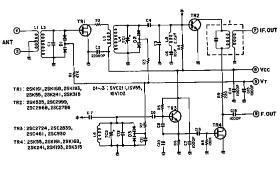
IC508 / IC507	T1 [2 Pin]	T2 [15 Pin]	T3 [1 Pin]	T4 [6 Pin]	D5 [7 Pin]	T6 [4 Pin]
K1 [3 Pin]	P1/9	P5/13		UP	P1-8/ P9-16	
K2 [4 Pin]	P2/10	P6/14		DOWN	FM/AM	
K3 [5 Pin]	P3/11	P7/15	AUTO/ MAN'L	FINE UP	RECEIVING MODE	
K4 [6 Pin]	P4/12	P8/ 6	MEMORY	FINE DOWN		TEST (OFFSET)

• IC508 DATA TABLE

INPUT			OUTPUT						
TC [12 Pin]	TB [13 Pin]	TA [10 Pin]	T0 [14 Pin]	T1 [2 Pin]	T2 [15 Pin]	T3 [1 Pin]	T4 [6 Pin]	T5 [7 Pin]	T6 [4 Pin]
0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0	0	0
0	1	0	0	1	0	0	0	0	0
0	1	1	0	0	1	0	0	0	0
1	0	0	0	0	0	1	0	0	0
1	0	1	0	0	0	0	1	0	0
1	1	0	0	0	0	0	0	1	0
1	1	1	0	0	0	0	0	0	1

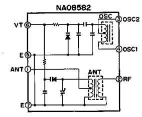
• FRONT END PACK (PK101)

PA00081

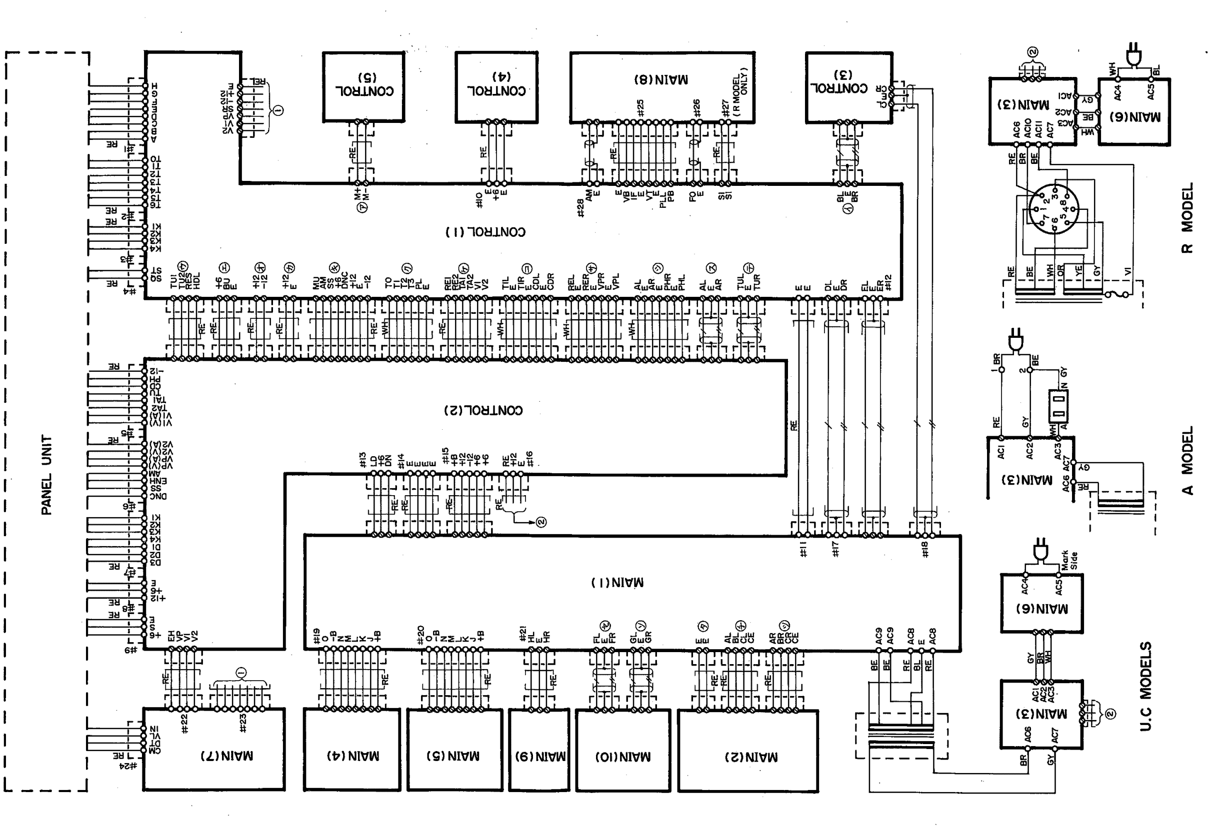


• AM Coil Pack (U501)

NA08582



■ WIRING



PARTS LIST

RX-1100/U

■WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

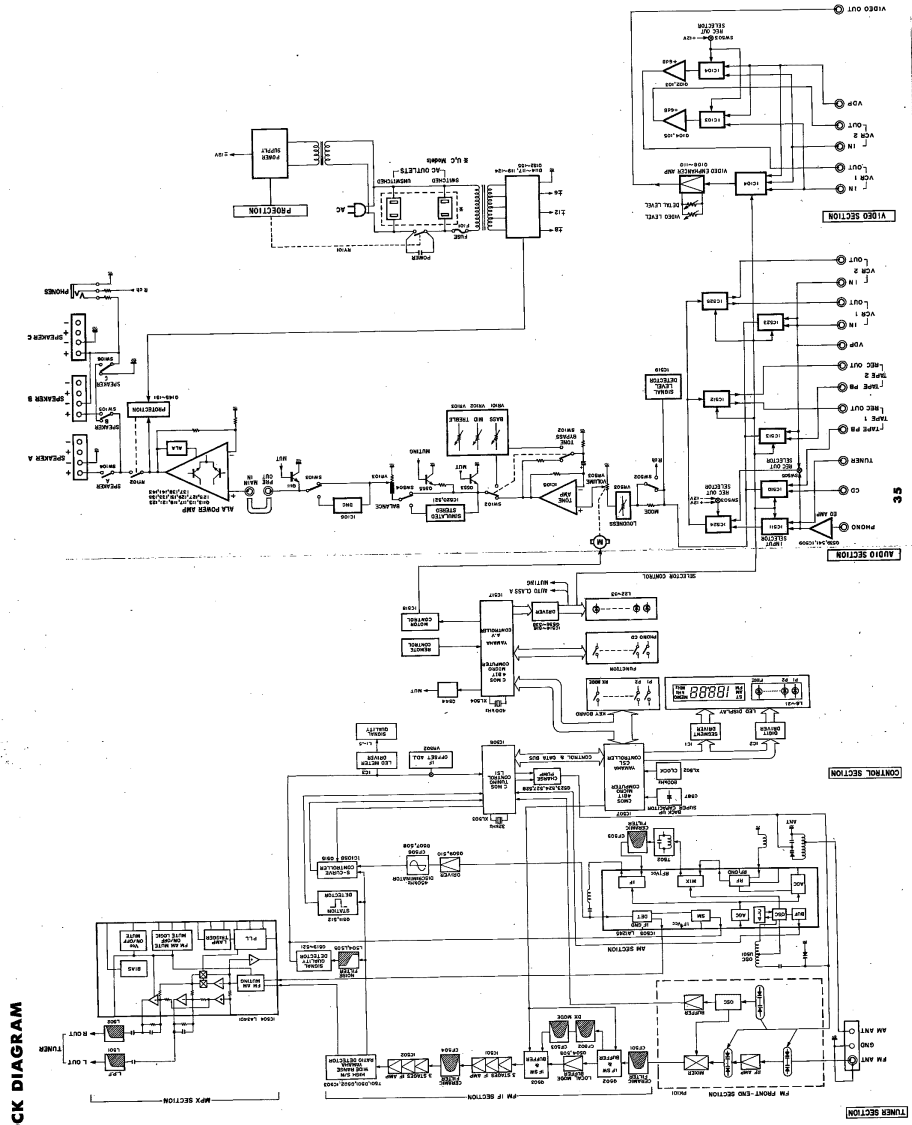
- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to p. 49.

■ELECTRICAL PARTS

Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
※	NA 09 35 90	*Control Circuit Board*		コントロールシート			R	
※	NA 09 33 70	//		//			U,C	
※	NA 09 33 80	//		//			A	
	FI 19 12 20	Ceramic Cap.	22pF CH 50V	セラコン	C581,582			
	FI 22 21 00	//	100pF 50V	//	C548,549			
	FI 22 31 00	//	1000pF 50V	//	C529,534			
	FI 22 34 70	//	4700pF 25V	//	C575,576			
	FI 54 41 00	//	0.01μF 16V	//	C503,505,506,515,523,531,538			
	FG 21 11 20	//	12pF 50V	//	C573			
	FG 21 14 70	//	47pF 50V	//	C514			
	FG 21 21 00	//	100pF 50V	//	C578,579,584,585,630			
	FG 21 22 20	//	220pF 50V	//	C615			
	FG 21 24 70	//	470pF 50V	//	C552,616,625,626			
	FG 21 31 00	//	1000pF 50V	//	C528			
	FG 44 41 00	//	0.01μF 50V	//	C501,508,510~513,516~518,524~528,532,537,539,540,544~546,586,589,590,619,632,653			
	VB 17 01 00	Electrolytic Cap.	4700μF 5.5V	バックアップケミコン	C587			
	FA 15 31 00	Mylar Cap.	1000pF 50V	マイラーコン	C567,568			
	FA 15 31 00	//	1000pF 50V	//	C555,556		A	
	FA 15 31 50	//	1500pF 50V	//	//		R,U,C	
	FA 15 31 50	//	1500pF 50V	//	C599,600,638			
	FA 15 32 70	//	2700pF 50V	//	C563,564			
	FA 15 33 90	//	3900pF 50V	//	C569,570			
	FA 15 35 60	//	5600pF 50V	//	C611,612,635,637			
	FA 15 41 00	//	0.01μF 50V	//	C591,592			
	FA 15 41 10	//	0.011μF 50V	//	C605,606			
	FA 15 41 20	//	0.012μF 50V	//	C636			
	FA 15 42 20	//	0.022μF 50V	//	C562,609,610			
	FA 15 43 30	//	0.033μF 50V	//	C621,622			
	FA 15 43 90	//	0.039μF 50V	//	C603,604			
	FA 15 44 70	//	0.047μF 50V	//	C540,553,559			
	FA 15 52 20	//	0.22μF 50V	//	C632,634			
	UJ 11 84 70	Electrolytic Cap.	470μF 6.3V	ケミコン	C547			
	UJ 11 92 20	//	2200μF 6.3V	//	C601,602			
	UJ 13 73 30	//	33μF 16V	//	C597,619			
	UJ 13 81 00	//	100μF 16V	//	C614			
	UJ 14 71 00	//	10μF 25V	//	C502,509,528,531,533,536,537,543,593,551,554,577,589,595,596,598,620,631,642,643			
	UJ 44 83 30	//	330μF 25V	//	C613			
	UJ 16 53 30	//	0.33μF 50V	//	C583,623,624			
	UJ 16 54 70	//	0.47μF 50V	//	C617			
	FM 11 61 00	//	1μF 50V	//	C504,519,560,561,566,569,572,574,589,644~651			
	UJ 16 62 20	//	2.2μF 50V	//	C507,641			
	UJ 16 64 70	//	4.7μF 50V	//	C522,542,571,639,640			
	UK 13 72 20	//	22μF 16V	BP コン	C607,608			
	UK 16 54 70	//	0.47μF 50V	//	C541,558,633			
	UK 16 61 00	//	1μF 50V	//	C557,627~629			
	UT 45 25 60	Polypropylene Film Cap.	560pF 100V	ポリプロコン	C527			
	UT 45 22 20	//	220pF 100V	//	C593,594			
	FY 00 01 90	Trimmer Cap.	5pF CTZ5IA117	トリマーコン	VC501			
	GE 10 02 80	FM Disor Coil		FMディスクリコイル	T501			
	GE 10 04 70	AM IFT Coil		AMIFTコイル	T502			

※New Parts (新規部品)

■BLOCK DIAGRAM



	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
※		NA 09 33 30	*Main Circuit Board*		メインシート			R		
※		NA 09 33 40	〃		〃			U,C		
※		NA 09 33 50	〃		〃			A		
		FG 21 11 00	Ceramic Cap.	10pF 50V	セラコン	C155,156				
		FG 21 21 20	〃	120pF 50V	〃	C115				
		FG 21 24 70	〃	470pF 50V	〃	C114				
		FG 21 31 00	〃	1000pF 50V	〃	C105				
		FG 71 33 30	〃	3300pF 50V	〃	C137,138				
		FG 44 41 00	〃	0.01μF 50V	〃	C103,104,106,107,188				
		VA 89 08 00	〃	0.01μF	〃	C191				△
		FU 35 08 00	Mica Cap.	8pF 500V	マイカコン	C149,150				
		FU 35 12 20	〃	22pF 500V	〃	C161～164				
		FU 35 13 90	〃	39pF 500V	〃	C157,158				
		VA 96 17 00	Electrolytic Cap.	4700μF 80V	ブロックケミコン	C170				
※		VC 42 61 00	〃	12000μF 71V	〃	C181,182				
		FA 15 34 70	Mylar Cap.	4700pF 50V	マイラーコン	C147,148				
		FA 15 51 20	〃	0.12μF 50V	〃	C131,132				
		FA 15 43 30	〃	0.033μF 50V	〃	C135,136				
		FA 15 51 00	〃	0.1μF 50V	〃	C167,168,192,193				
		FA 15 51 00	〃	0.1μF 50V	〃	C165,166				
		FA 15 52 20	〃	0.22μF 50V	〃	C185				
		UJ 11 73 30	Electrolytic Cap.	33μF 6.3V	ケミコン	C125,126				
		UJ 11 81 00	〃	100μF 6.3V	〃	C145,146				
		UJ 11 82 20	〃	220μF 6.3V	〃	C190				
		FJ 12 91 00	〃	1000μF 10V	〃	C108,110,116				
		UJ 13 71 00	〃	10μF 16V	〃	C180		R		
		UJ 13 73 30	〃	33μF 16V	〃	C109,111,112,172,174				
		UJ 13 81 00	〃	100μF 16V	〃	C119,171,173				
		UJ 13 82 20	〃	220μF 16V	〃	C113,153,154				
		UJ 13 83 30	〃	330μF 16V	〃	C177,178				
		UJ 14 71 00	〃	10μF 25V	〃	C141,142				
		UJ 14 72 20	〃	22μF 25V	〃	C117,118,129,130,189				
		UJ 14 81 00	〃	100μF 25V	〃	C159,160				
		UJ 16 54 70	〃	0.47μF 50V	〃	C133,134				
		UJ 16 61 00	〃	1μF 50V	〃	C123,124,139,140,169				
		UL 46 61 00	〃	1μF 50V	ローノイズケミコン	C102				
		UL 46 62 20	〃	2.2μF 50V	〃	C101				
		UW 84 84 70	〃	470μF 25V	ケミコン	C179		U,A,C		
		UW 67 81 00	〃	100μF 63V	〃	〃		R		
		UW 83 91 00	〃	1000μF 16V	〃	C120,175,176				
		UW 84 91 00	〃	1000μF 25V	〃	C184				
		UJ 14 92 20	〃	2200μF 25V	〃	C183				
		UW 85 82 20	〃	220μF 35V	〃	C151,152				
		UT 45 22 20	Polypropylene Film Cap.	220pF 100V	ポリプロコン	C121,122,127,128,143,144				
		UT 45 41 00	〃	0.01μF 100V	〃	C186,187				
※		XC 11 50 01	Power Transformer		電源トランス	T101		R		△
※		XC 11 60 01	〃		〃	〃		U,C		△
※		XC 11 70 01	〃		〃	〃		A		△
※		VC 66 41 00	Output Coil	0.91μH	アウトプットコイル	L102,103				
		GE 90 18 60	Coil	47mH	コイル	L104,105				
		VB 11 56 00	Coil	15μH	〃	L101				

※New Parts（新規部品）

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
		HJ 35 53 30	Carbon Resistor	330Ω 1/4W	カーボン抵抗	R163,164				
		HJ 35 54 70	〃	470Ω 1/4W	〃	R165,166				
		HJ 35 61 00	〃	1kΩ 1/4W	〃	R268,269				
		HJ 35 61 50	〃	1.5kΩ 1/4W	〃	R270,271				
		HJ 35 63 30	〃	3.3kΩ 1/4W	〃	R161,162				
		HJ 35 64 70	〃	4.7kΩ 1/4W	〃	R273,274		R		
		HJ 35 65 60	〃	5.6kΩ 1/4W	〃	R159,160				
		HJ 35 66 80	〃	6.8kΩ 1/4W	〃	R157,158				
		HJ 35 71 00	〃	10kΩ 1/4W	〃	R223,224				
		HJ 35 71 50	〃	15kΩ 1/4W	〃	R207,208				
		HJ 35 74 70	〃	47kΩ 1/4W	〃	R209,210				
		HJ 35 81 00	〃	100kΩ 1/4W	〃	R197,198,277				
		HJ 35 84 70	〃	470kΩ 1/4W	〃	R211,212				
		HG 30 92 20	〃	2.2MΩ 1/2W	〃	R272		U,C		△
		HL 31 62 70	Metal Oxide Film Resistor	2.7kΩ 1W	酸金抵抗	R213,214				
		HL 32 22 20	〃	0.22Ω 2W	〃	R245～252				
		HL 32 52 70	〃	270Ω 2W	〃	R265,266				
		HL 32 61 80	〃	1.8kΩ 2W	〃	R289				
		HV 45 32 20	Flame Proof Carbon Resistor	2.2Ω 1/4W	不燃化カーボン抵抗	R276				
		HV 45 31 00	〃	1Ω 1/4W	〃	R275,291				
		HV 45 34 70	〃	4.7Ω 1/4W	〃	R237～244,263,264				
		HV 45 42 20	〃	22Ω 1/4W	〃	R290				
		HV 45 43 30	〃	33Ω 1/4W	〃	R147,148				
		HV 45 43 90	〃	39Ω 1/4W	〃	R203,204				
		HV 45 51 00	〃	100Ω 1/4W	〃	R205,206				
		HV 45 52 20	〃	220Ω 1/4W	〃	R199～202,215～218				
		HV 45 52 70	〃	270Ω 1/4W	〃	R231～234				
		HV 45 53 90	〃	390Ω 1/4W	〃	R235,236				
		HV 45 55 60	〃	560Ω 1/4W	〃	R229,230				
		HV 45 61 00	〃	1kΩ 1/4W	〃	R255,256				
		HV 45 61 20	〃	1.2kΩ 1/4W	〃	R221,222				
		HV 45 61 80	〃	1.8kΩ 1/4W	〃	R219,220				
		HV 45 62 20	〃	2.2kΩ 1/4W	〃	R225～228				
		HV 45 64 70	〃	4.7kΩ 1/4W	〃	R253,254				
		HV 45 41 00	〃	10Ω 1/4W	〃	R259,260				
		HS 41 25 60	Potentiometer	20Kトク×2	可変抵抗器	VR102,106				
		HS 41 25 70	〃	16Kトク×2	〃	VR101				
		HS 41 25 80	〃	20KMN	〃	VR103				
		VB 86 12 00	Pre-Set Potentiometer	B2.2kΩ	半固定抵抗	VR104,105				
		iA 09 70 00	Transistor	2SA970(GR,BL)	トランジスタ	Q113～116,147				
		iA 10 15 21	〃	2SA1015(Y)	〃	Q102,104,109,123,124				
		iA 10 15 21	〃	2SA1015(Y)	〃	Q158		R		
		iA 11 45 00	〃	2SA1145(O,Y)	〃	Q131,132				
※		VC 61 40 00	〃	2SB1274	〃	Q153				
		iC 18 15 20	〃	2SC1815(Y)	〃	Q101,103,105～108,110,117,118,121,122,148,149,151,156				
		iC 22 40 00	〃	2SC2240(GR,BL)	〃	Q125～128,145,146,150				
		iX 60 42 00	〃	2SC2878(A,B)	〃	Q111,112				
		iC 27 05 00	〃	2SC2705(O,Y)	〃	Q119,120,129,130				
		VB 22 27 00	〃	2SD1485	〃	Q157		R		
※		VC 40 79 00	〃	2SD1913	〃	Q152,154,155				
		iA 13 06 10	〃	2SA1306	〃	Q135,136				

※New Parts（新規部品）

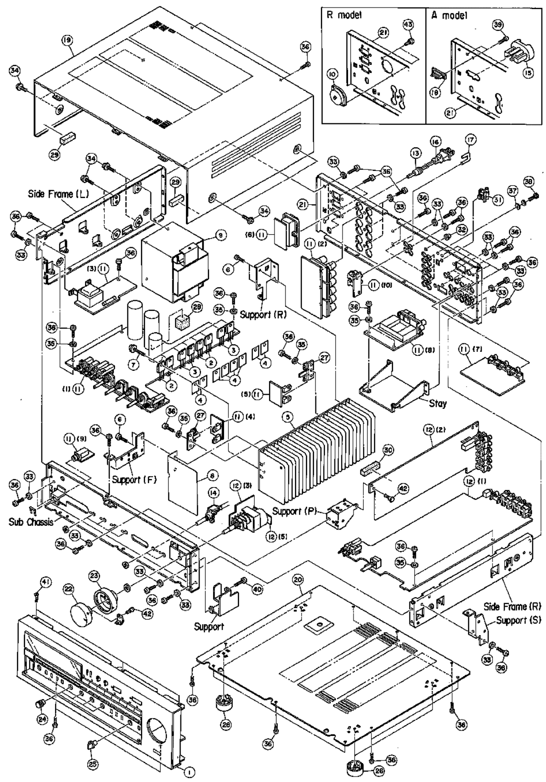
	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
		VB 10 96 00	Coil	220μH	コイル	L503			
		GE 90 19 80	〃	120μH	〃	L506			
		GE 90 06 90	〃	8.2mH	〃	L504,505			
		GE 90 18 50	〃	39mH	〃	L501,502			
		GG 00 04 20	AM Ceramic Discri	CDA450A	AMセラミックディスクリ	CF506			
		GG 00 06 00	Ceramic Filter	SFE10.7MX	セラミックフィルター	CF501,504 } PACK			
			〃	SFE10.7MS3G	〃	CF502,503 } PACK			
		GG 00 06 60	AM Ceramic Filter	SFU450B9	AMセラミックフィルター	CF505			
		GG 00 07 00	Ceramic Resonator	FCR400K	セラミック振動子	XL504			
		GG 00 07 50	〃	CSB456F11	〃	XL501			
		GG 00 07 60	〃	CSB800K	〃	XL502			
		QU 00 39 00	Quartz Crystal Unit	32kHz	水晶振動子	XL503			
		HJ 35 52 20	Carbon Resistor	220Ω 1/4W	カーボン抵抗	R510,528			
		HJ 35 61 00	〃	1kΩ 1/4W	〃	R515			
		HJ 35 61 20	〃	1.2kΩ 1/4W	〃	R671			
		HJ 35 65 60	〃	5.6kΩ 1/4W	〃	R621			
		HJ 35 66 80	〃	6.8kΩ 1/4W	〃	R628			
		HJ 35 71 00	〃	10kΩ 1/4W	〃	R598,709,815			
		HJ 35 71 20	〃	12kΩ 1/4W	〃	R571			
		HJ 35 74 70	〃	47kΩ 1/4W	〃	R520			
		HJ 35 81 00	〃	100kΩ 1/4W	〃	R518,682～687,689～694			
		HJ 35 82 20	〃	220kΩ 1/4W	〃	R545,553			
		HJ 35 91 00	〃	1MΩ 1/4W	〃	R623			
		HV 45 34 70	Flame Proof Carbon Resistor	4.7Ω 1/4W	不燃化カーボン抵抗	R713,817			
		HV 45 42 20	〃	22Ω 1/4W	〃	R710			
		HV 45 51 00	〃	100Ω 1/4W	〃	R669,670			
		VB 86 14 00	Pre-Set Potentiometer	B4.7kΩ	半固定抵抗	VR502			
		VB 86 19 00	〃	B100kΩ	〃	VR501			
※		VC 59 23 00	Potentiometer	100KY×2+300K×2	モーターつきVR	VR503			
		iA 09 34 00	Transistor	2SA934	トランジスタ	Q547			
		iA 09 70 00	〃	2SA970(GR,BL)	〃	Q539～542			
		iA 10 15 21	〃	2SA1015(Y)	〃	Q536～538,543～545,549,551,560			
		iA 09 33 00	〃	2SA933S(Q,R)	〃	Q508,513,514,519,524,525,527,530,531,533,534 } Inter-changeable			
		iA 11 15 10	〃	2SA1115(E,F)	〃	〃 } Inter-changeable			
		iX 60 31 70	〃	2SA1310(R,S,T)	〃	〃 } Inter-changeable			
		iC 18 15 20	〃	2SC1815(Y)	〃	Q522,546,548,552,557～559			
		iC 19 23 00	〃	2SC1923	〃	Q502,503			
		iX 60 42 00	〃	2SC2878(A,B)	〃	Q511,517,553～556			
		iC 20 60 00	〃	2SC2060	〃	Q550			
		iC 17 40 00	〃	2SC1740S(S,R)	〃	Q501,504～507,509,510,512,515,516,518,520,521,523,526,528,529,532,535 } Inter-changeable			
		iC 26 03 10	〃	2SC2603(E,F)	〃	〃 } Inter-changeable			
		iX 60 31 80	〃	2SC3312(R,S,T)	〃	〃 } Inter-changeable			
		iF 00 07 10	Diode	1S2473	ダイオード	D515～520 } Inter-changeable			
		iF 00 00 40	〃	1S1555	〃	〃 } Inter-changeable			
			〃	1SS133	〃	D501～503,505～511,513,514,522,524,526～534,536,537			
		iF 01 06 90	Zener Diode	MTZ5.1B	ツェナーダイオード	D504			
		iF 01 07 50	〃	MTZ6.2C	〃	D523,525,535			

※New Parts（新規部品）

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
		iF 00 80 30	Zener Diode	MTZ7.5C	ツェナーダイオード	D521			
		iF 00 20 20	LED	SLB-15UR	LED	D512			
		iG 03 45 00	IC	μPC577H(E,F)	IC	IC501,502			
		iG 03 55 00	〃	TC4028BP	〃	IC508 } Inter-changeable			
		iG 14 87 00	〃	BU4028B	〃	〃 } Inter-changeable			
		iG 04 78 00	〃	LA1245	〃	IC505			
		iG 04 91 00	〃	LC7210	〃	IC506			
		iG 05 49 00	〃	M54542	〃	IC518			
		iG 07 68 00	〃	NJM4558S	〃	IC503,519～521			
		iG 08 57 00	〃	M5218L V	〃	IC522,526,527			
		iG 12 18 00	〃	NJM4560S	〃	IC509			
		iG 14 93 00	〃	LC4966	〃	IC510～513,523～525			
		iG 15 81 00	〃	LA3401	〃	IC504			
		XA 54 90 01	〃	LB1294	〃	IC514,515			
※		XB 93 00 01	〃	LA7910	〃	IC516			
※		XB 91 70 01	〃	LC6505C-3203	〃	IC517			
※		XB 91 80 01	〃	LC6510C-3232	〃	IC507			
		KA 80 51 10	Push Switch	SUN 2-2 NS	プッシュスイッチ	SW502			
		KA 80 51 70	〃	SUN 4-2 NS	〃	SW504			
		KA 80 52 00	〃	SUF 4-2 S & NS	〃	SW501			
		KA 90 10 70	Remote Switch	4-6	リモートスイッチ	SW505			
※		VC 42 59 00	Rotary Switch	SRBU2-4	ロータリースイッチ	SW503			
		LB 10 07 30	Mini Jack	S-G8036	ミニジャック	JK501			
		LB 60 83 90	Socket	6P	STコネクタソケット	JK502			
		LB 20 22 70	Pin Jack	2P	ピンジャック	PJ504			
		LB 40 10 30	〃	4P	〃	PJ502,503,505,506			
		LB 40 10 40	〃	4P	〃	PJ501			
		NA 08 78 30	AM Coil Pack		AMコイルパック	U501			
		LB 91 80 20	Base Pin	2P i-Type	XHベースピン				
		LB 91 80 30	〃	3P i-Type	〃				
		LB 93 90 30	〃	3P	ベースピン				
		VA 72 56 00	Holder	6P	パラレルケーブルホルダー				
		VA 72 57 00	〃	7P	〃				
		VD 00 46 00	Base Pin	3P i-Type	PHベースピン				
		VD 00 47 00	〃	4P i-Type	〃				
		VD 00 48 00	〃	5P i-Type	〃				
		BB 06 95 10	Ground Metal		ランド金具				

※New Parts（新規部品）

■EXPLODED VIEW



■MECHANISM PARTS

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
※	1	VC 63 87 00	Front Panel Unit		フロントパネルユニット	RX-1100		R,A		
※	〃	VC 63 88 00	〃		〃	RX-1100U		U,C		
	2	iA 12 65 30	Transistor	2SA1265	トランジスタ	Q139,140,143,144				
	3	IC 31 82 30	〃	2SC3182	〃	Q137,138,141,142				
	4	VB 43 50 00	Sheet		電化放熱シート					
	5	BA 09 24 80	Heat Sink		放熱板					
	6	EI 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドタッピングネジ	PACK				
	7	EZ 00 13 50	Cup Screw	3×14 FCRM3-BI	カップスクリュー(B タイト)					
※	8	VC 66 88 00	Spacer		スペーサー					
※	9	XC 10 70 01	Power Transformer		電源トランス			U		⚠
※	〃	XC 10 90 01	〃		〃			C		⚠
※	〃	XC 10 80 01	〃		〃			A		⚠
※	〃	XC 10 60 01	〃		〃			R		⚠
	10	LB 20 14 80	Voltage Selector		電圧切換器			R		⚠
※	11	NA 09 33 30	Main Circuit Board		メインシート			R		
※	〃	NA 09 33 40	〃		〃			U,C		
※	〃	NA 09 33 50	〃		〃			A		
※	12	NA 09 33 70	Control Circuit Board		コントロールシート			U,C		
※	〃	NA 09 33 80	〃		〃			A		
※	〃	NA 09 35 90	〃		〃			R		
	13	CB 62 01 90	Cord Stopper	CM-22B	コードストッパー			R,A		
	〃	CB 62 02 00	〃	CM-22C	〃			U,C		
	14	KA 90 71 00	Remote Rotary Switch	ESA-33	リモートロータリースイッチ					
※	15	VC 62 61 00	Outlet	2P	アウトレット			A		⚠
	16	MG 00 16 30	Power Cord	6A 250V 2m	電源コード			R		⚠
	〃	MG 00 22 20	〃	10A 125V 1.98m	〃			U,C		⚠
	〃	MG 00 09 20	〃	7.5A 250V 2.5m	〃	Inter-changeable		A		⚠
	〃	MG 00 23 10	〃	7.5A 250V 2m	〃	Inter-changeable		A		⚠
	17	LB 10 11 10	Short Plug		ショートプラグ	ACCESSORY Terminal				
	18	LA 00 29 50	Terminal Board	2P	中継端子台			A		
	19	AA 62 60 40	Top Cover		トップカバー	Silver	R-9			
	〃	AA 62 60 60	〃		〃	Black	〃			
	20	AA 62 60 30	Bottom Cover		ボトムカバー		〃			
※	21	VC 40 51 00	Rear Panel		リアパネル			R		
※	〃	VC 40 52 00	〃		〃			U,C		
※	〃	VC 40 53 00	〃		〃			A		
	22	BA 09 24 90	Knob	φ44	ツマミ	Silver VOLUME	R-9			
	〃	BA 09 25 00	〃	φ44	〃	Black 〃	〃			
	23	BA 09 25 30	〃	φ48	〃	Silver LOUDNESS	〃			
	〃	BA 09 25 40	〃	φ48	〃	Black 〃	〃			
	24	CB 62 08 10	〃		〃	Silver				
	〃	CB 62 08 20	〃		〃	Black				
	25	CB 62 08 30	Switch Knob		スイッチツマミ	Silver				
	〃	CB 62 08 40	〃		〃	Black				
	26	CB 62 07 30	Leg	TL-037	脚					
※	27	VC 63 78 00	TR Pusher		TRプッシャー					
	28	CB 64 58 80	Spacer		スペーサー		R-9			
	29	CB 64 14 70	Rubber, Cushion		防振ゴム					
	30	CB 64 42 40	Cushion		クッション					
	31	CB 60 74 70	Holder, Antenna		アンテナホルダー					
	32	CB 62 72 40	Switch		MMゲインスイッチ					
	33	EV 41 30 36	Toothed Lock Washer	φ3 FCRM3-BI	歯付座金	PACK				
	34	EK 13 00 20	BW Head Tapping Screw	4×8 FNM3-3g	BWヘッドタッピングネジ	Silver				

※New Parts（新規部品）

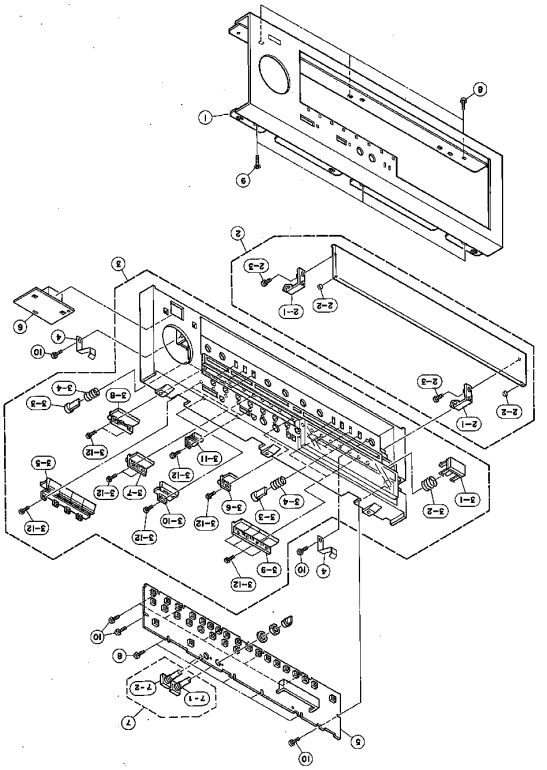
	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
		iC 32 98 10	Transistor	2SC3298	トランジスタ	Q133,134				
		iG 09 20 00	IC	M5220L	IC	IC105				
		XA 56 90 01	〃	BA6110	〃	IC106,107				
		IG 04 14 10	〃	M54459L	〃	IC101				
		iG 14 93 00	〃	LC4966	〃	IC102～104				
		iF 00 06 70	Diode	1S2473	ダイオード	D113,124 (Inter-changeable)				
		iF 00 00 40	〃	1S1555	〃	〃 (Inter-changeable)				
		iF 00 34 50	〃	1SS133	〃	D101～108,118,125,126				
		IF 00 14 00	〃	1SS82	〃	D109,110				
		iF 00 84 80	〃	1SR35-100A	〃	D128～130		R		⚠
		iF 00 84 80	〃	1SR35-100A	〃	D112,120～123				⚠
		iH 00 11 30	Diode Bridge	D5FB20	ダイオードブリッジ	D119				⚠
		iF 00 19 40	Zener Diode	HZ24-2	ツェナーダイオード	D127				
		iX 60 42 90	〃	HZ12A3	〃	D116,117				
		iX 60 42 90	〃	HZ12A3	〃	D111		R		
		iF 00 80 30	〃	MTZ7.5C	〃	D114,115				
		KA 40 16 90	Slide Switch	SSJ312A	スライドスイッチ	SW101		R		
		KA 80 27 60	Push Switch	SUF 2-2 NS	プッシュスイッチ	SW104,105				
※		VC 42 60 00	〃	SUF 4-2 NS	〃	SW106				
		KA 80 51 70	〃	SUN 4-2 NS	〃	SW103				
		KA 80 51 80	〃	SUN 4-2 S	〃	SW102				
		KB 00 04 00	Fuse	T5.0A 250V	ヒューズ	F102		R		⚠
		KB 00 07 90	〃	T4.0A 250V	〃	F101		A		⚠
		KB 00 13 90	〃	10A 250V	〃	〃		U,C		⚠
		KB 00 14 90	〃	10A 250V	〃	〃		R		⚠
		KC 00 19 10	Relay	DH12D1-OM	リレー	RY101				⚠
		KC 00 20 20	〃	DH24D2-OTM(MG)	〃	RY102				⚠
※		VC 25 79 00	Phone Jack		ホーンジャック	JK101				
※		VC 36 44 00	Pin Jack	2P	ピンジャック	PJ101～103				
		LB 40 10 30	〃	4P	〃	PJ104				
		PA 00 08 10	FM Front End Pack	FE343U	FMフロントエンドパック	PK101				
		LA 00 58 00	Antenna Terminal		アンテナ端子					
※		VC 42 58 00	Speaker Terminal	8P i-Type	スピーカー端子					
※		VC 42 57 00	〃	4P i-Type	〃					
		LA 00 20 00	Lapping Terminal	P=7.5 2P i-Type	i型ラッピング端子板					
		LA 00 23 20	〃	P=7.5 3P i-Type	〃					
		LA 00 21 40	〃	P=10 2P i-Type	〃					
		LB 60 42 80	AC Outlet	M7026E	ACアウトレット			R		⚠
		LB 60 81 70	〃	M7032D	〃			U,C		⚠
		LB 20 18 80	Fuse Holder Pin	PC-FH1	ヒューズホルダーピン					
		VD 00 45 00	Base Pin	2P i-Type	PHベースピン					
		VD 00 46 00	〃	3P i-Type	〃					
		VD 00 47 00	〃	4P i-Type	〃					
		VD 00 50 00	〃	7P i-Type	〃					

※New Parts（新規部品）

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
		VD 00 51 00	Base Pin	8P i-Type	PHベースピン				
		LB 91 80 20	〃	2P I-Type	XHベースピン				
		LB 91 80 30	〃	3P I-Type	〃				
		BA 09 29 70	Heat Sink		放熱器				
		BA 08 40 00	〃		〃				
		BB 06 95 10	Ground Plate		ランド金具				
		EI 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドタッピングネジ	PACK			
		ED 33 00 86	Binding Head Screw	3×8 FCRM3-BI	バインド小ネジ	PACK			
※		***VD 18 27 00***	***Keyboard Circuit Board***		キーボードシート				
		KX 60 05 00	Switch		MTスイッチ				
		IX 60 90 10	LED (Red)	SLR320VC	LED(赤)	L15			
		iF 00 82 90	LED Unit	LS337-829	LEDユニット				
		iX 60 90 00	LED (Red)	SLR-55URC-3H	LED(赤)	L7～14			
		iF 00 87 30	〃 (〃)	SLR-34URC-3H3	〃 (〃)	L16～30			
		iF 00 87 40	〃 (Green)	SLR-34MC-3H3	〃 (緑)	L1～5			
		iX 60 89 90	〃 (Red/Green)	SPR-55MVT	〃 (赤／緑)	L31～33			
		IX 60 89 80	〃 (Green)	SLR320MC	〃 (緑)	L6			
		iG 14 72 00	IC	BA12004	IC	IC2 (Inter-changeable)			
		IG 14 54 00	〃	LB1234	〃	〃 (Inter-changeable)			
		IG 11 71 00	〃	M54526	〃	〃 (Inter-changeable)			
		IG 14 67 00	〃	LB1413	〃	IC3			
		IG 13 20 00	〃	BA618	〃	IC1			
		IC 23 20 40	Transistor	2SC2320	〃	TR1			
		iA 09 99 00	〃	2SA999	〃	TR2			
		HJ 35 61 20	Carbon Resistor	1.2kΩ 1/4W	カーボン抵抗	R21～50			
		HJ 35 64 70	〃	4.7kΩ 1/4W	〃	R2			
		HJ 35 43 30	〃	33Ω 1/4W	〃	R8,10,12,14,16,18,20			
		HJ 35 42 70	〃	27Ω 1/4W	〃	R5,7,9,11,13,15,17,19			
		HJ 35 71 00	〃	10kΩ 1/4W	〃	R3,4,6			
		HJ 35 74 70	〃	47kΩ 1/4W	〃	R1			
		iF 00 06 70	Diode	1S2473	ダイオード	D1～8 (Inter-changeable)			
		iF 00 34 20	〃	1S1588	〃	〃 (Inter-changeable)			
		UJ 12 91 00	Electrolytic Cap.	1000μF 10V	ケミコン	C1			
		UW 93 71 00	〃	10μF 16V	〃	C3			
※		***VD 18 29 00***	***Enhancer Circuit Board***		エンハンサーシート				
		HX 60 18 00	Potentiometer	1kΩB	可変抵抗器	VIDEO LEVEL			
		HX 60 17 90	〃	20kΩB	〃	DETAIL			
※		***VD 18 28 00***	***Remote Control Circuit Board***		リモートコントロールシート				
		LX 60 04 30	Reciever Unit	HC-101	受光器				

※New Parts（新規部品）

■EXPLODED VIEW (Front Panel Unit)



■MECHANISM PARTS

Ref. No.	Part No.				Description	部品名	Remarks	Common Model	Markets	ランク
	VC	63	87	00	**Front Panel Unit**	フロントパネルユニット	RX-1100		R,A	
※	〃	VC	63	88	00	〃	〃	RX-1100U		U,C	
	2	IA	12	05	30	Transistor	2SA1265	トランジスタ	Q139,140,143,144			
	3	IC	31	82	30	〃	2SC3182	〃	Q137,138,141,142			
	4	VB	43	50	00	Sheet		電化放熱シート				
	5	BA	09	24	80	Heat Sink		放熱板				
	6	EI	33	00	86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドタッピングネジ	PACK			
	7	EZ	00	13	50	Cup Screw	3×14 FCRM3-BI	カップスクリュー(B タイプ)				
※	8	VC	66	88	00	Spacer		スペーサー				
※	9	XC	10	70	01	Power Transformer		電源トランス			U	△
※	〃	XC	10	90	01	〃		〃			C	△
※	〃	XC	10	80	01	〃		〃			A	△
※	〃	XC	10	60	01	〃		〃			R	△
	10	LB	20	14	80	Voltage Selector		電圧切換器			R	△
※	11	NA	09	33	30	Main Circuit Board		メインシート			R	
※	〃	NA	09	33	40	〃		〃			U,C	
※	〃	NA	09	33	50	〃		〃			A	
※	12	NA	09	33	70	Control Circuit Board		コントロールシート			U,C	
※	〃	NA	09	33	80	〃		〃			A	
※	〃	NA	09	35	90	〃		〃			R	
	13	CB	62	01	90	Cord Stopper	CM-22B	コードストッパー			R,A	
	〃	CB	62	02	00	〃	CM-22C	〃			U,C	
	14	KA	90	71	00	Remote Rotary Switch	ESA-33	リモートロータリースイッチ				
※	15	VC	62	61	00	Outlet	2P	アウトレット			A	△
	16	MG	00	16	30	Power Cord	6A 250V 2m	電源コード			R	△
	〃	MG	00	22	20	〃	10A 125V 1.98m	〃			U,C	△
	〃	MG	00	09	20	〃	7.5A 250V 2.5m	〃	Inter changeable		A	△
	〃	MG	00	23	10	〃	7.5A 250V 2m	〃			A	△
	17	LB	10	11	10	Short Plug		ショートプラグ	ACCESSORY Terminal			
	18	LA	00	29	50	Terminal Board	2P	中継端子台			A	
	19	AA	62	60	40	Top Cover		トップカバー	Silver	R-9		
	〃	AA	62	60	50	〃		〃	Black	〃		
	20	AA	62	60	30	Bottom Cover		ボトムカバー		〃		
※	21	VC	40	51	00	Rear Panel		リアパネル			R	
※	〃	VC	40	52	00	〃		〃			U,C	
※	〃	VC	40	53	00	〃		〃			A	
	22	BA	09	24	90	Knob	φ44	ツマミ	Silver VOLUME	R-9		
	〃	BA	09	25	00	〃	φ44	〃	Black 〃	〃		
	23	BA	09	25	30	〃	φ48	〃	Silver LOUDNESS	〃		
	〃	BA	09	25	40	〃	φ48	〃	Black 〃	〃		
	24	CB	62	08	10	〃		〃	Silver			
	〃	CB	62	08	20	〃		〃	Black			
	25	CB	62	08	30	Switch Knob		スイッチツマミ	Silver			
	〃	CB	62	08	40	〃		〃	Black			
	26	CB	62	07	30	Leg	TL-037	脚				
※	27	VC	63	78	00	TR Pusher		TRプッシャー				
	28	CD	64	56	80	Spacer		スペーサー		R-9		
	29	CB	64	14	70	Rubber,Cushion		防振ゴム				
	30	CB	64	42	40	Cushion		クッション				
	31	CB	60	74	70	Holder, Antenna		アンテナホルダー				
	32	CB	62	72	40	Switch		MMダイオスイッチ				
	33	EV	41	30	36	Toothed Lock Washer	φ3 FCRM3-BI	歯付座金	PACK			
	34	EK	13	00	20	BW Head Tapping Screw	4×8 FNM3-3g	BWヘッドタッピングネジ	Silver			

※New Parts (新規補品)

Ref. No.	Part No.				Description	部品名	Remarks	Common Model	Markets	ランク
34	EK	36	50	40	BW Head Tapping Screw	4×8 FCRM3-BI	BWヘッドタッピングネジ	Black		
35	EV	20	10	36	Plain Washer	φ3 FNM3-3g	平座金	PACK		
36	EI	13	00	86	Binding Head Tapping Screw	3×8 FNM3-3g	バインドタッピングネジ	PACK		
37	EV	90	13	60	Sems Plain Washer	M3×φ5.5×0.5 FNM3g	セムス平座金			
38	AA	62	73	10	Ground Terminal Screw	3×13	アース端子ネジ			
39	ED	33	00	66	Binding Head Screw	3×6 FCRM3-BI	バインドネジ	PACK	A	
40	EI	33	00	66	Binding head Tapping Screw	3×6 FCRM3-BI	バインドタッピングネジ	PACK		
41	EO	33	00	66	Flat Head Tapping Screw	3×6 FCRM3-BI	皿タッピングネジ	PACK		
42	CB	60	56	20	Plastic Rivet		プラスチックリベット			
43	CB	06	88	80	〃		〃		R	
	CB	06	92	58	Binding Tie	BK-1	インシュロックタイ			
					Accessories		付属品			
※	VC	42	96	00	Remote Control Transmitter	RS-RX11	リモートコントロールトランスミッター			
					Dry Cell	AA,R6	単3乾電池			
	MI	06	44	00	FM Q-matching Antenna	FM	FMQマッチアンテナ			
	MI	08	29	10	Loop Antenna	AM	ループアンテナ			
	VB	10	54	60	Matching Transformer	1P S-US025	整合器			
	VA	95	59	00	ST Connector	6P	STコネクタ			
	MI	08	17	80	Plug Cord		ミニプラグコード			

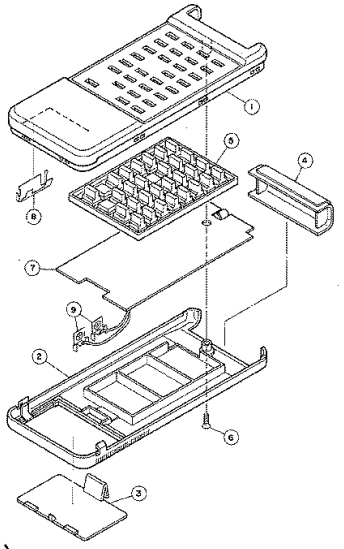
※New Parts (新規補品)

■MECHANISM PARTS

Ref. No.	Part No.				Description	部品名	Remarks	Common Model	Markets	ランク
	VC	63	87	00	**Front Panel Unit**	フロントパネルユニット	RX-1100		R,A	
※	〃	VC	63	88	00	〃	〃	RX-1100U		U,C	
	1	VC	64	07	00	Front Panel Ass'y	フロントパネルAss'y	RX-1100		R,A	
※	〃	VC	64	08	00	〃	〃	RX-1100U		U,C	
	2	VC	63	91	00	Sealing Panel Ass'y	シーリングパネルAss'y	RX-1100		R,A	
	3	VC	64	13	00	Sub Chassis Unit	サブシャーシユニット	PACK			
	2-3	EK	33	00	66	Pan Head Screw	3×6 FCRM3-BI	ナベネジ	PACK		
	2-2	CB	62	19	30	Cushion		クッション			
	2-1	XX	85	00	20	Hinge		ヒンジ			
	3-1	VC	46	79	00	Button		釦	POWER		
	3-2	AA	61	78	80	Spring		スプリング			
	3-3	CB	62	06	60	Push Button		プッシュボタン			
	3-4	AA	61	78	90	Spring		スプリング			
※	3-5	CX	60	07	70	Button		釦	INPUT		
	3-6	CB	63	99	30	Button, Push	1P	押ボタンスイッチ	PI-PB/PB-PB		
	3-7	CB	63	99	50	〃	2P	〃			
	3-8	CB	63	55	70	Button, Sesame		押ボタンシール	TUNING		
	3-9	CB	64	01	50	Button, Push	4P	押ボタンスイッチ	PRESET		
※	3-10	CX	60	07	80	〃		〃	MUTING		
※	3-11	VC	41	66	00	〃		〃	VIDEO ENHANCER		
	3-12	EJ	02	00	66	Pan Head Tapping Screw	2×6 ZMC2-Y	ナベタッピンタイト	PACK		
	4	XX	85	06	50	Spring		バネ			
	5	VD	18	27	00	Keyboard Circuit Board		キーボードシート			
※	6	VD	18	28	00	Remote Control Board		リモートコントロールシート			
※	7	VD	18	29	00	Character Circuit Board		エフトシフワーシート			
	7-1	HX	60	18	00	Potentiometer	10KB	可変抵抗器	VIDEO LEVEL		
	7-2	HX	60	17	90	〃	20KB	〃	DETAIL		
	8	EJ	33	00	66	Pan Head Tapping Screw	3×6 FCRM3-BI	ナベタッピンタイト	PACK		
	9	EO	33	00	66	Flat Head Tapping Screw	3×6 FCRM3-BI	皿タッピンタイト	PACK		
	10	EJ	02	00	66	Pan Head Tapping Screw	2.6×6 ZMC2-Y	ナベタッピンタイト	PACK		

※New Parts (新規補品)

■EXPLODED VIEW (RS-RX11)



■PARTS LIST (RS-RX11)

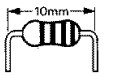
	Ref. No.	Part No.	Description		部品名	Remarks	Common Mocel	Markets	ランク
※		VC 42 96 00	*Remote Control Transmitter*	RS-RX11	リモートコントロールトランスミッター				
※	1	CX 60 07 90	Case (A) Ass'y		ケース(A) Ass'y				
	2	XX 67 16 20	Case (B)		ケース(B)				
	3	XX 67 16 30	Case (C)		ケース(C)				
	4	XX 67 16 40	Filter		フィルター				
※	5	CX 60 08 00	Rubber Contact		ゴム接点				
	6	XX 67 16 60	Flat Head Screw		皿小ネジ				
※	7	NX 60 04 40	P.C. Board Ass'y		プリント基板 Ass'y				
	8	XX 67 16 80	Dry Cell Terminal (A)		電池電極板(A)				
	9	XX 67 16 90	〃 (B)		〃 (B)				
※		NX 60 04 40	*P.C. Board Ass'y*		プリント基板 Ass'y				
	IX	60 16 00	IC	μPD1943G	IC	IC1			
	QX	60 00 40	Ceramic Resonator	KBR-455BTL	セラミック振動子	X1			
	FG	21 21 00	Ceramic Cap.	100pF 50V	セラコン	C1,2			
	UJ	11 74 70	Electrolytic Cap.	47μF 6.3V	ケミコン	C3			
	IC	26 73 00	Transistor	2SC2673	トランジスタ	Q1			
	IX	60 36 00	IED	SLR-932A	IED	IED1			
	IF	00 06 70	Diode	1S2473	ダイオード	D1~5			
	HX	60 14 00	Carbon Resistor	2Ω 1/4W	カーボン抵抗	R1			

※New Parts (新規部品)

Parts List for Carbon Resistor

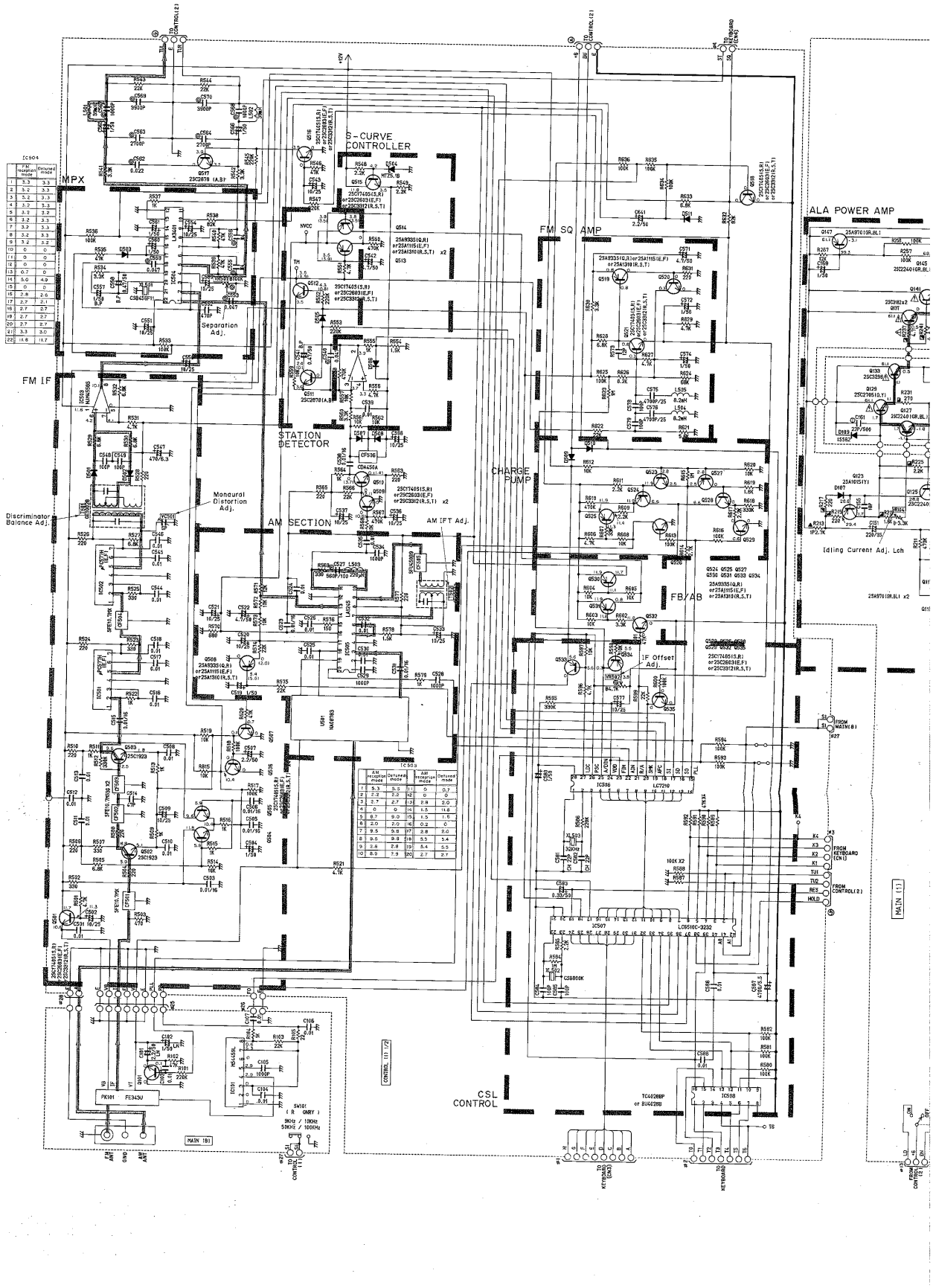
Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	※	12KΩ	HJ35 7120	HF85 7120
1.8 〃	HJ35 3180	※	15 〃	HJ35 7150	HF85 7150
2.2 〃	HJ35 3220	HF85 3220	18 〃	HJ35 7180	HF85 7180
3.3 〃	HJ35 3330	HF85 3330	22 〃	HJ35 7220	HF85 7220
4.7 〃	HJ35 3470	HF85 3470	27 〃	HJ35 7270	HF85 7270
5.6 〃	HJ35 3560	HF85 3560	33 〃	HJ35 7330	HF85 7330
10 〃	HJ35 4100	HF85 4100	39 〃	HJ35 7390	HF85 7390
15 〃	HJ35 4150	HF85 4150	47 〃	HJ35 7470	HF85 7470
22 〃	HJ35 4220	HF85 4220	56 〃	HJ35 7560	HF85 7560
27 〃	HJ35 4270	HF85 4270	68 〃	HJ35 7680	HF85 7680
33 〃	HJ35 4330	HF85 4330	82 〃	HJ35 7820	HF85 7820
39 〃	HJ35 4390	HF85 4390	91 〃	HJ35 7910	HF85 7910
47 〃	HJ35 4470	HF85 4470	100 〃	HJ35 8100	HF85 8100
56 〃	HJ35 4560	HF85 4560	120 〃	HJ35 8120	HF85 8120
68 〃	HJ35 4680	HF85 4680	150 〃	HJ35 8150	HF85 8150
82 〃	HJ35 4820	HF85 4820	180 〃	HJ35 8180	HF85 8180
100 〃	HJ35 5100	HF85 5100	220 〃	HJ35 8220	HF85 8220
110 〃	HJ35 5110	HF85 5110	270 〃	HJ35 8270	HF85 8270
120 〃	HJ35 5120	HF85 5120	330 〃	HJ35 8330	HF85 8330
150 〃	HJ35 5150	HF85 5150	390 〃	HJ35 8390	HF85 8390
160 〃	HJ35 5160	※	470 〃	HJ35 8470	HF85 8470
180 〃	HJ35 5180	HF85 5180	560 〃	HJ35 8560	HF85 8560
220 〃	HJ35 5220	HF85 5220	680 〃	HJ35 8680	HF85 8680
270 〃	HJ35 5270	HF85 5270	820 〃	HJ35 8820	HF85 8820
330 〃	HJ35 5330	HF85 5330	1.0MΩ	HJ35 9100	HF85 9100
390 〃	HJ35 5390	HF85 5390	1.2 〃	HJ35 9120	※
470 〃	HJ35 5470	HF85 5470	1.5 〃	HJ35 9150	HF85 9150
510 〃	※	HF85 5510	1.8 〃	HJ35 9180	HF85 9180
560 〃	HJ35 5560	HF85 5560	2.2 〃	HJ35 9220	HF85 9220
680 〃	HJ35 5680	HF85 5680	3.3 〃	HJ35 9330	HF85 9330
820 〃	HJ35 5820	HF85 5820	3.9 〃	HJ35 9390	※
910 〃	HJ35 5910	HF85 5910	4.7 〃	HJ35 9470	※
1.0KΩ	HJ35 6100	HF85 6100			
1.2 〃	HJ35 6120	HF85 6120			
1.5 〃	HJ35 6150	HF85 6150			
1.8 〃	HJ35 6180	HF85 6180			
2.0 〃	HJ35 6200	HF85 6200			
2.2 〃	HJ35 6220	HF85 6220			
2.4 〃	HJ35 6240	HF85 6240			
2.7 〃	HJ35 6270	HF85 6270			
3.0 〃	HJ35 6300	HF85 6300			
3.3 〃	HJ35 6330	HF85 6330			
3.6 〃	HJ35 6360	HF85 6360			
3.9 〃	HJ35 6390	HF85 6390			
4.7 〃	HJ35 6470	HF85 6470			
5.1 〃	HJ35 6510	HF85 6510			
5.6 〃	HJ35 6560	HF85 6560			
6.8 〃	HJ35 6680	HF85 6680			
8.2 〃	HJ35 6820	HF85 6820			
9.1 〃	HJ35 6910	HF85 6910			
10 〃	HJ35 7100	HF85 7100			

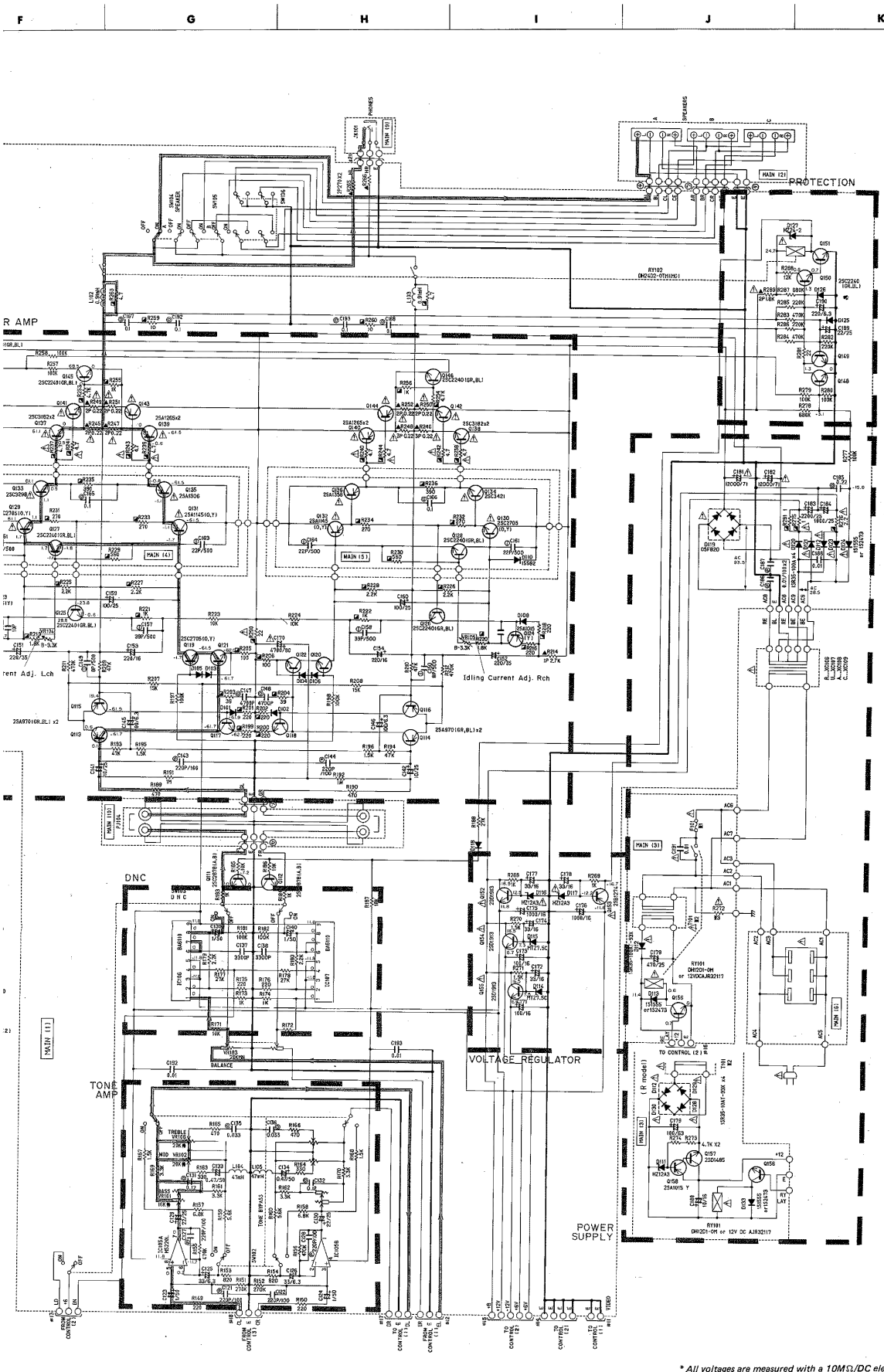
1/4W Type HJ35○○○○



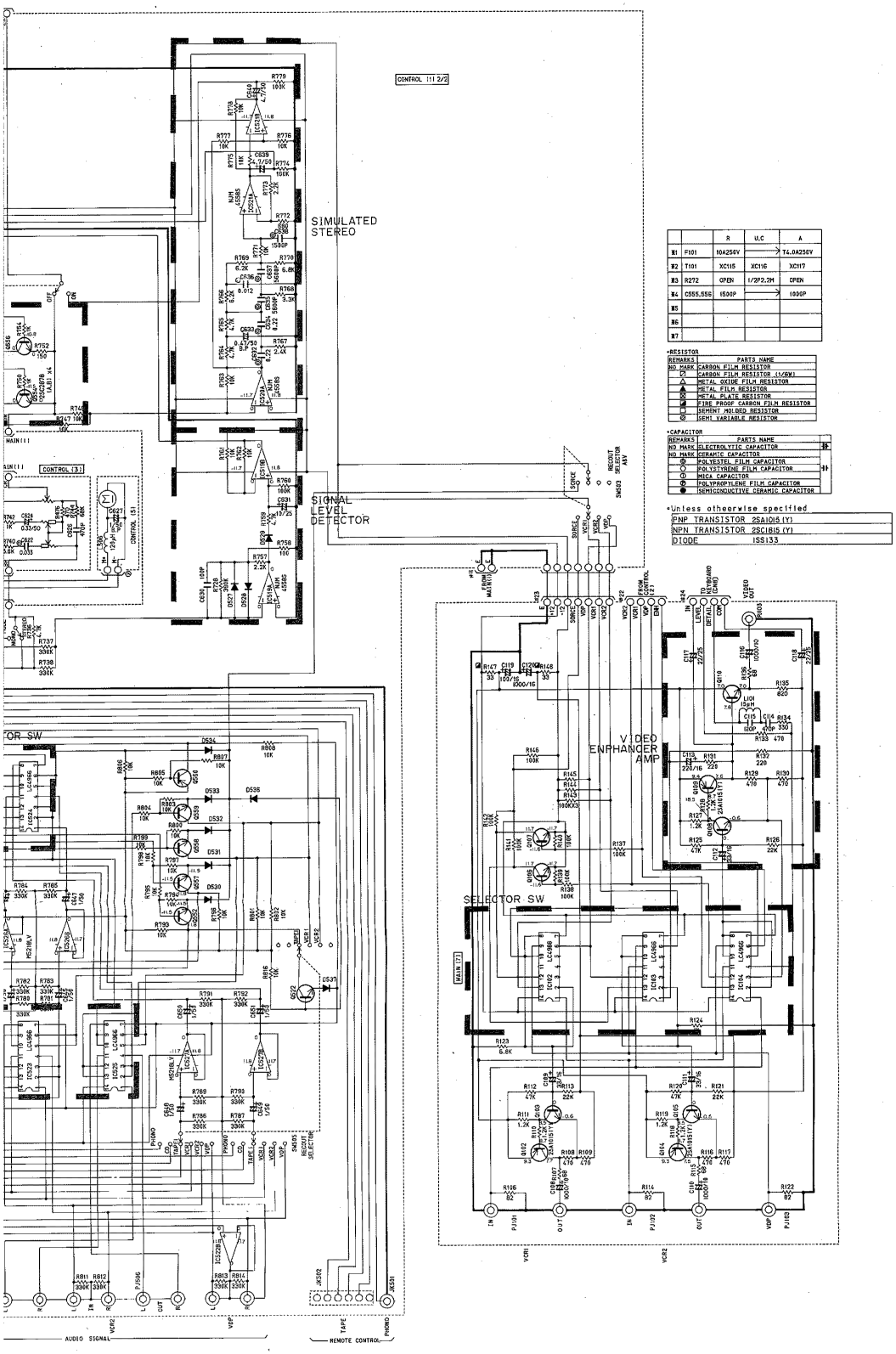
1/6W Type HF85○○○○

■ SCHEMATIC DIAGRAM (1/3)





*All voltages are measured with a 10MΩ/DC electric volt meter.
*Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
*Schematic diagram is subject to change without notice.



		R	U,C	A
B1	F101	10A250V	→	T4.0A250V
B2	T101	XC115	XC116	XC117
B3	R272	OPEN	1/2P2.2H	OPEN
B4	C555,555	1500P	→	1000P
B5				
B6				
B7				

*RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR
	CARBON FILM RESISTOR (1/6W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
Ø	SEMI VARIABLE RESISTOR

*CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	‡‡
NO MARK	CERAMIC CAPACITOR	
⊗	POLYESTEL FILM CAPACITOR	‡
○	POLYSTYRENE FILM CAPACITOR	
⊙	MICA CAPACITOR	
Ø	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

*Unless otherwise specified

PNP TRANSISTOR	2SA1015 (Y)
NPN TRANSISTOR	2SC1815 (Y)
DIODE	1SS133

M54542	LA7910	LC4966	BA618 BA12004 LB1234 M54526 LB1294	TC4028BP BU4028B	LA1245	LC7210	LC6505C-3203 LC6505C-3232

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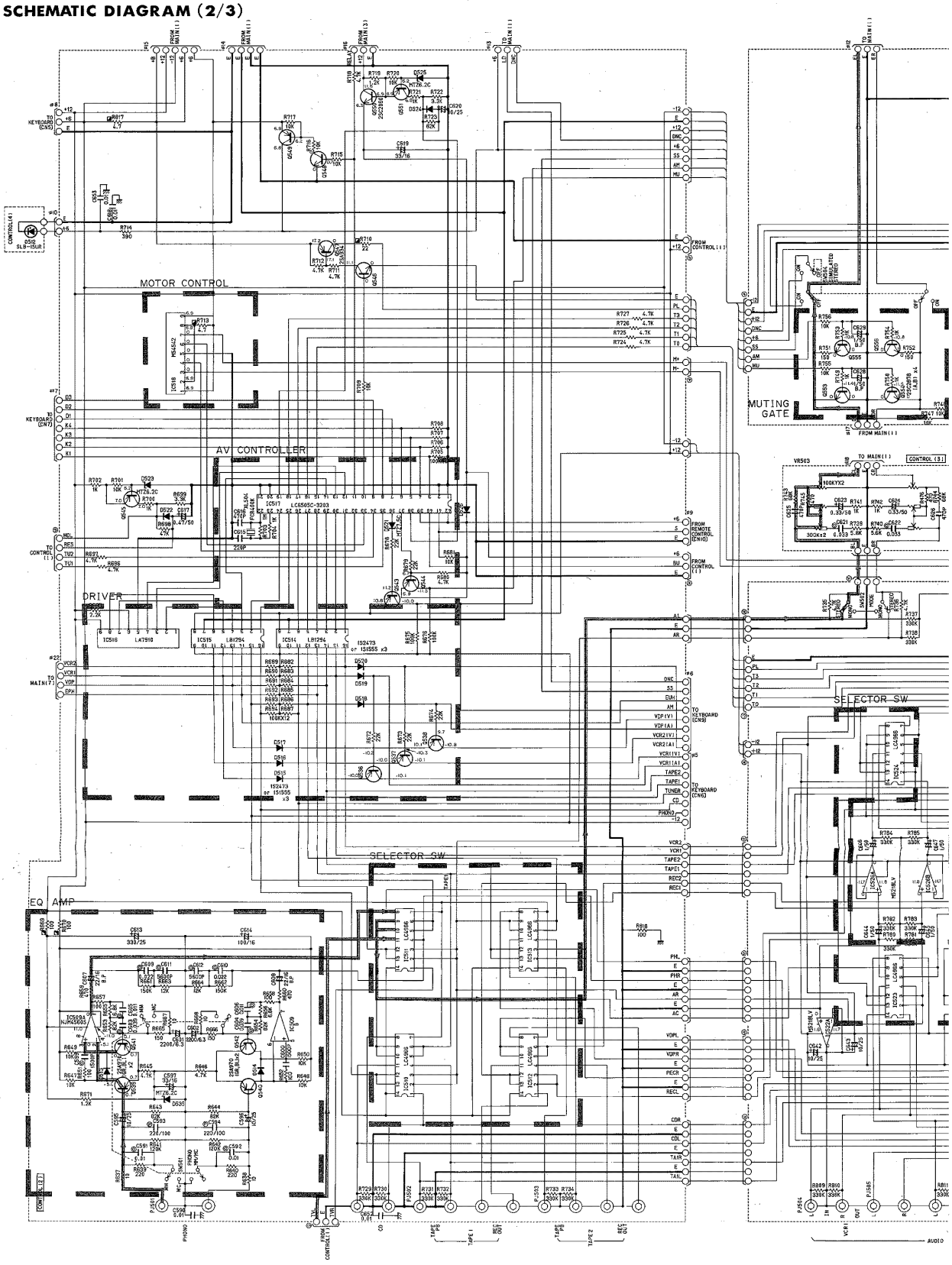
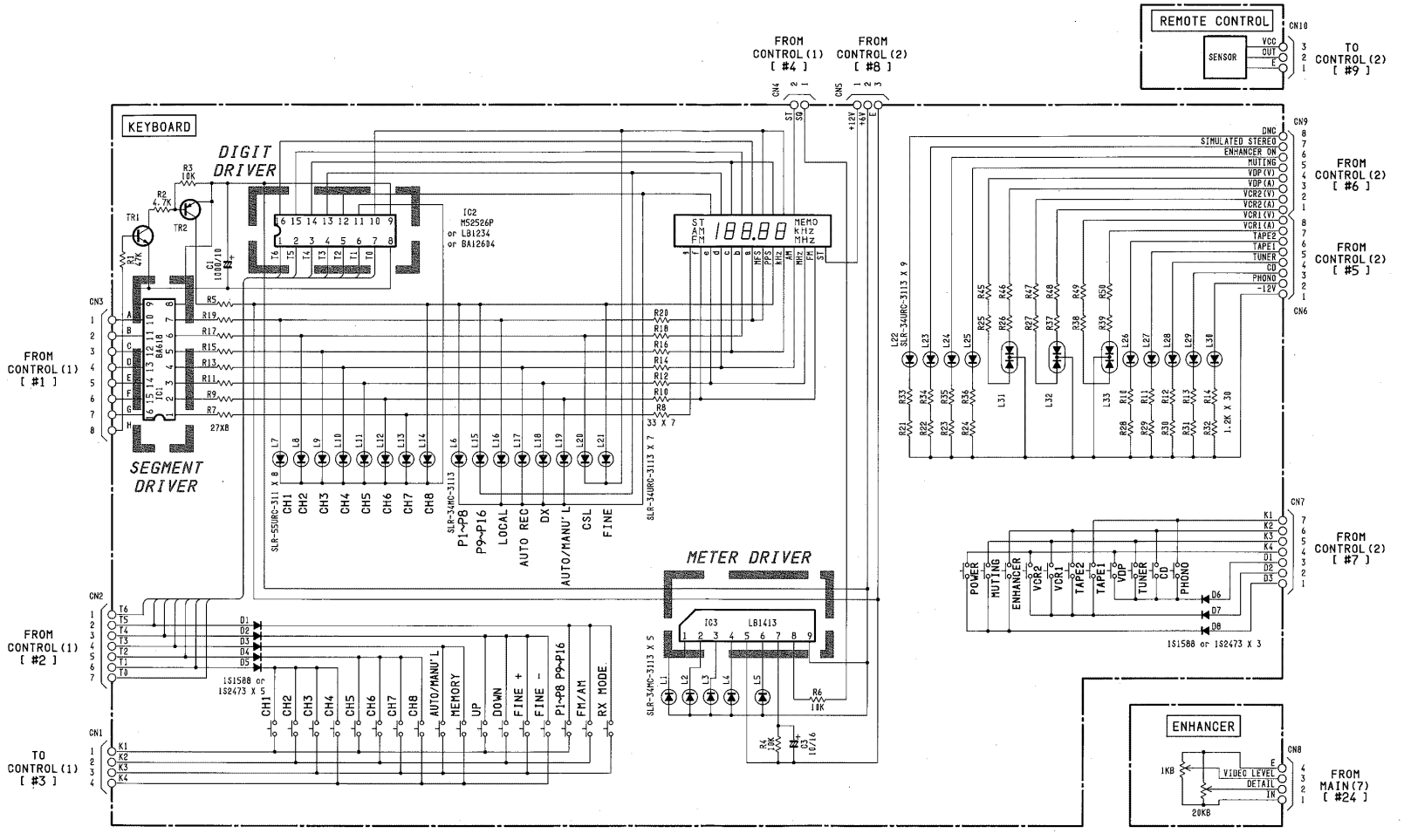
*Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (2/3)



2SC2320 2SA999 2SA834 2SA974 (GR, BL) 2SA1015 (Y) 2SA933S (Q, R) 2SA1115 (E, F) 2SA1310 (P, S, T) 2SC1815 (Y) 2SC1923	2SC2878 (A, B) 2SC2060 2SC1740S (S, R) 2SC2603 (E, F) 2SC3312 (R, S, T) 2SA970 (GR, BL) 2SA1145 (O, Y) 2SB1274 2SC2240 (GR, BL) 2SC2705 (O, Y)	2SD1485 2SD1913	2SA1306 2SC3298	2SA1265 2SC3182	1S1588 1S2473 1S1555 1SS133 1SS82 1SR35-100A HZ24-2 HZ12A3 MTZ7.5C MTZ5.1B	MTZ6.2C	D5F820	μPC577H (E, F)	NJM4560S	MS220L M54459L MS218L	BA6110	NJM4558S	LB1413	M54542



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* Schematic diagram is subject to change without notice.