STEREO RECEIVER

RX-830/AVF

SERVICE MANUA

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.

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, recognition of any applicable technical

capabilities, or establish a principle-agent relationship of any form.

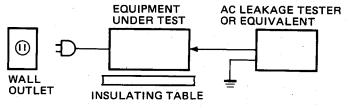
The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and specifications are subject to change without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

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.

■ 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 model only)

This receiver 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.

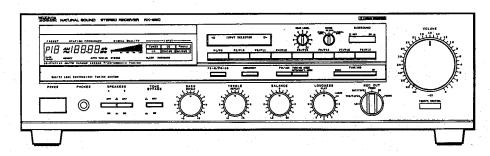
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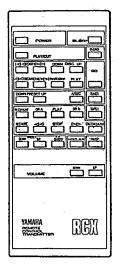
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■ FRONT PANEL

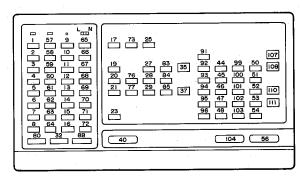
RX-830



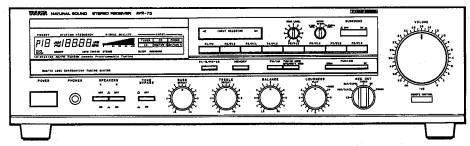
AVR-75 Remote Control Transmitter



RX-830 Remote Control Transmitter

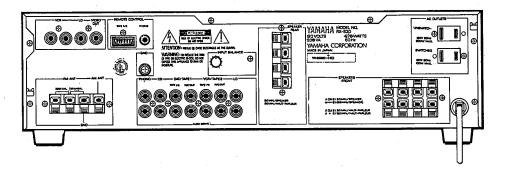


AVR-75

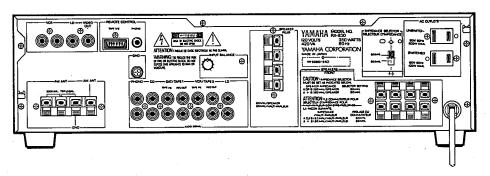


REAR PANELS

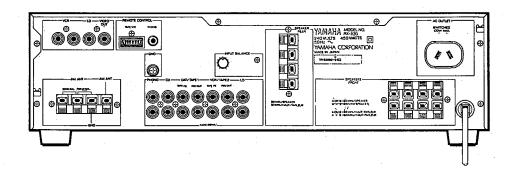
RX-830 U model



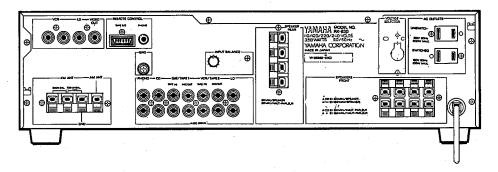
RX-830 C model



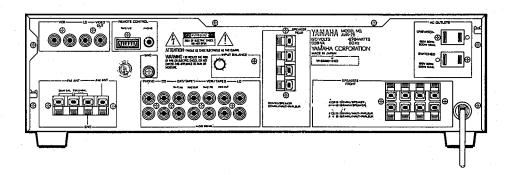
RX-830 A model



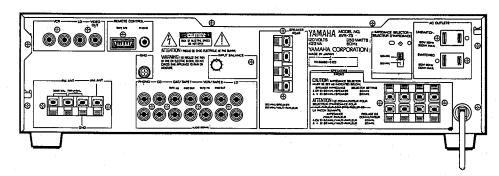
RX-830 P model



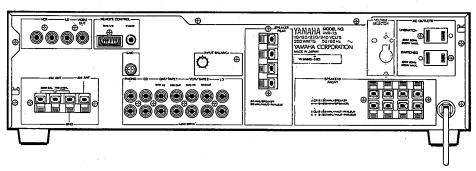
AVR-75 U model



AVR-75 C model



AVR-75 R.P model



■ SPECIFICATIONS

AUDIO SECTION
Minimum RMS Output Power per Channel (Front) 8 ohms, 20 Hz to 20 kHz, 0.015% THD 70 W 6 ohms, 20 Hz to 20 kHz, 0.03% THD 75 W
Output Power per Channel (Rear) 8 ohms, 1 kHz, 0.1% THD, rear amp direct measurement
Dynamic Power per Channel (IHF) 8/6/4/2 ohms
Power Band Width 8 ohms, 35 W, 0.1% THD 10 Hz to 50 kHz
Damping Factor 8 ohms, 1 kHz50
Input Sensitivity/Impedance PHONO
Input Sensitivity (New IHF) PHONO
Maximum Input Signal Level (1 kHz, 0.01% THD) PHONO
Output Level/Impedance REC OUT
Headphone Jack Rated Output/Impedance 8 ohms, 0.02 % THD 0.8 V/220 ohms
Frequency Response (20 Hz to 20 kHz) CD/TAPE/VCR/LD
RIAA Equalization Deviation PHONO
Total Harmonic Distortion (20 Hz to 20 kHz) PHONO to REC OUT (3 V)
Intermodulation Distortion CD/TAPE/VCR/LD (Rated Output/8 ohms)0.01%
Signal-to-Noise Ratio (IHF-A Network) PHONO (5 mV Input Shorted)
Residual Noise (IHF-A Network)
Channel Separation (1 kHz/10 kHz, Vol30 dB) PHONO (Input Shorted)
Tone Control Characteristics BASS: Boost/cut

Continuous Loudness Control40 dB (1 kHz) (Level related equalization)
(Level related equalization)
VIDEO SECTION
Input Sensitivity/Impedance1 V/75 ohms
Output Level/Impedance
Maximum Input Level/Impedance
FM SECTION
Tuning Range87.5 to 107.9 MHz
50 dB Quieting Sensitivity Mono
Usable Sensitivity IHF Mono, 1 kHz, 100% mod., 75 ohms
Limitting Sensitivity
Image Response Ratio
IF Response Ratio
Spurious Response Ratio
AM Suppression Ratio
Capture Ratio
Alternate Channel Selectivity
Signal-to-Noise Ratio (IHF) Mono/Stereo
Harmonic Distortion (1 kHz) Mono/Stereo
Stereo Separation (1 kHz)
Frequency Response 30 Hz to 15 kHz 0 ±0.5 dB
AM SECTION
Tuning Range 530 to 1,610 kHz
Usable Sensitivity
Selectivity
Signal-to-Noise Ratio 50 dB
Image Response Ratio
Spurious Response Ratio
Harmonic Distortion (400 Hz)

AUDIO SECTION

Output Level/Impe	edance		
FM (100% mo	d., 1 kHz)	500 mV/3.3	k-ohms
AM (30% mod	., 400 Hz)	150. mV/3.3	k-ohms

GENERAL

Power Supply [U.S.A. and Canada models] AC 120 V, 60 Hz [General model PX model]
AC 110-120/220-240 V, 60/50 Hz
[Australian model] AC 240V 50Hz Power Consumption
AC Outlets Switched
Dimensions (W x H x D) 435 x 126 x 291 mm (17-1/8" x 4-15/16" x 11-7/16")
Weight 7.5 kg (16 lbs. 8 oz.)
Accessories

Specifications subject to change without notice.

UU,S,A model

RGeneral model

Battery x 2

C Canadian model

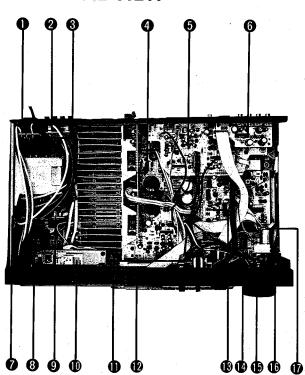
PPX model

Remote control transmitter x 1

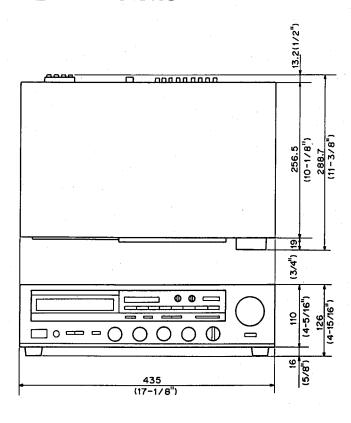
Remote control cable (mini-plug) x 1 Remote control cable (6-pin) x 1

A Austlalian model

INTERNAL VIEW



DIMENSIONS



Main Circuit Board(II)

(U,C,R,P models)

Main Circuit Board (13)

(A, model only)

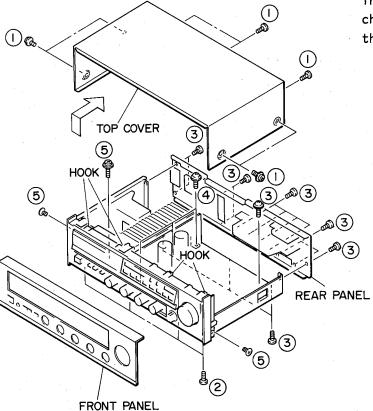
Main Circuit Board (12)

(R, P models)

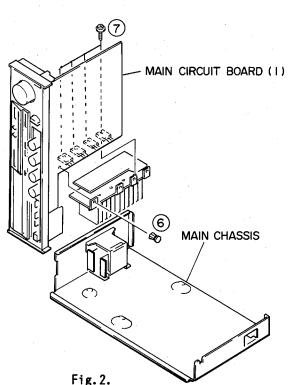
- Main Circuit Board (4)
- 4 Surround Circuit Board (2)
- Surround Circuit Board (I)
- 6 Main Circuit Board (6)
- Main Circuit Board (9)
- Main Circuit Board (3)
- Main Circuit Board (5)
- 1 LCD Circuit
- Surround Circuit Board (3)
- Surround Circuit Board (4)
- (I) Main Circuit Board(I)
- Main Circuit Board (2)
- (10) Main Circuit Board
- (8) Main Circuit Board
- Main Circuit Board (7)

■ DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered)

- I.Removal of Top Cover
 Remove 7 screws (①) in Fig.I and slide the
 Top Cover back and up.
- 2. Removal of Front Panel
 Remove 4 screws (2) and 4 hooks in Fig.1,
 and pull the Front Panel forward.
- 3. Removal of Rear Panel
 Remove 16 screws (3) in Fig. 1.



- 4. Removal of Radiater
- a.Remove 3 screws (4) in Fig.1.
- b. Remove | plastic rivet (6) in Fig. 2.
- c. Remove 4 screws (⑦) in Fig. 2.
- 5. Check of Main Circuit Board (I) and replacement of parts.
- a.Remove 3 screws (⑤) in Fig.!.
- b. Remove the Main Chassis as shown in Fig. 2. In this condition it is possible for you check the Main circuit Board (I), and replace the parts.



ADJUSTMENTS

- I. Before adjustment
 - After the power switch is pushed on, wait for 5 minutes before measuring, to be sure of the most stable operation.

Fig. I.

- Adjust the OSC coil and IFT with a nonferrous screw driver.
- 3) Set the switches to the following positions.

TUNING MODE.....AUTO

- 4) Proceed with the AM section adjustments after having finished the FM section adjustment.
- 5) $0dB\mu = I \mu V$ Ex.: $60dB\mu = ImV$

2. Measuring instruments abbreviation

FM SG : FM signal generator

SSG : Stereo signal generator

AM SG : AM signal generator DIST.M : Distortion meter

FC : Frequency counter

A.C.V.M : AC voltmeter
D.C.V.M : DC voltmeter

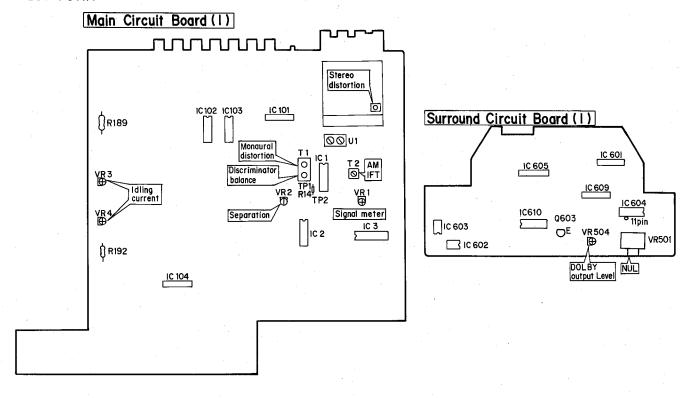
OSC : Oscilloscope

< POWER SUPPLY CHECK>

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

Test point	Rating or standard		C model	Rem	ark	
C199 (+)	+B	+50V <u>+</u> 5V	+40V <u>+</u> 5V	Make sur	e that AC line vol	tage comes within
C200 (-)	-В	-50V <u>+</u> 5V	-40V±5V	Models	AC line voltage	
C215 (+)	+C	+28V±3V	+28V±3V	U,C	120V±10%	
C216 (-)	-C	-28V <u>+</u> 3+	-28V±3V	A	240V±10%	
DI06 Anode	+40V	+40V±5V	+34V <u>+</u> 5V		· · · · · · · · · · · · · · · · · · ·	- - -
Q123 EMITTER	+12V	+12.6V±0.5V	+12.6V <u>+</u> 0.5V			•
Q124 EMITTER	-12V	-12.6V <u>+</u> 0.5V	-12.6V±0.5V			
D107 Anode	+97	+9.5V±0.5V	+9.5V±0.5V		*	
D108 Cathode	-9V	-9.5V <u>+</u> 0.5V	-9.5V±0.5V			• • • • • • • • • • • • • • • • • • •
IC4 64pin	5٧	+5.0V <u>+</u> 0.3V	+5.0V±0.3V	*		

TEST POINT



<AUDIO SECTION >

Step	Item to be adjusted	Connection terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard	Remarks
-	IDLING CURRENT	Across the terminal of R189 Across the terminal of R192	DCVM	VR3 (L ch) VR4 (R ch)	After the POWER switch is turned on, wait about 5 minutes in nonloaded condition.	2.5mV ∼3.5mV DC	non signal
2	DOLBY DISTORTION	REAR CH. SP OUTPUT	DIST-M ACVM	VR504	Make distor- tion minimum.	V±0.5V 	CD INPUT terminal 400Hz I50mV

<FM TUNER SECTION>

- Use 19kHz L.P.F. to measeure the output.
- 100% modulation means that the Frequency Deviation is 75kHz.
- Shorting IC4(49pin) and GND makes it possible to preset as given in the under-mentioned table, but if the shortening is conducted, the memory that user preset puts out. Therefore, use the method only when the preset has to be done by all means.

	SW107	*	P1/P9.	P2/P10	P3/P11	P4/P12	P5/P13	P6/P14	P7/P15	P8/P16
	(R, P mo	odels)								
U.C	AM	FM	AM .	AM	AM	FM	FM	FM	FM	FM
	10kHz	100kHz	630kHz	1080kHz	1440kHz	87.5MHz	95.IMHz	98.1MHz	101.5MHz	107.9MHz
Α	AM	FM	AM	AM	AM	FM	FM	FM	FM	FM
	9kHz	50kHz	630kHz	1080Khz	1440kHz	87.5MHz	95.IMHz	98.IMHz	101.5MHz	108.0MHz

Note : W Marked.

U,C models change by step of AMIOkHz,FM200kHz.

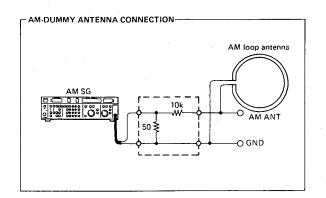
A model change by step of AM9kHz, FM50kHz.

Step	Item to be	Connection	Instrument	Adjustment	Adjustment	Rating or	Remarks
	adjusted	terminal	required	locations	method	standard	
1	Discriminator	FM ANT	FM SG	TI	Receive 98.1MHz		
	balance	300Ω	98.1MHz	(Discri-	and adjust so	0 ± 50mV	Tuned
			70dB μ	minator	that digital	DCVM	point.
			MONO 100Hz	balance)	voltmeter reading		
			100% MOD		is 0 ±50mV.		
		TPI and TP2	DCVM	7			
2	Monaural	FM ANT	FM SG	TI .	Reduce distortion		
	distortion	300Ω	98.IMHz	(Monaural	to minimum		
			70dB μ	distortion)			1
		-	MONO 100Hz				
			100% MOD				
		REC OUT	DIST-M				
			LPF, OSC	_		•	
3	Stereo	FM ANT	FM SG, SSG	FRONT-END	Same as step 2.	-46dB or	Confirm
	distortion	300Ω	·	IFT		less (IkHz)	that
			98.IMHz				STERE0
	*	·	70dB μ				indicator
			STEREO L.R	:			lights
			lkHz		•	i.	up.
			100% MOD			ŀ	
		REC OUT	DIST-M				
			LPF, OSC			1	
4	Confirmation	FM ANT	FM SG		Confirm that	-56dB or	If not,
	of Monaural	300Ω	98.IMHz		the monaural	less (IkHz)	return to
	distortion		70dB μ		distortion is		step 2
		,	MONO IkHz	·	satisfied the		and re-
			100% MOD	_	specifications.		adjust.
		REC OUT	DIST-M				
			LPF.OSC				

Step	Item to be	Connection	Instrument	Adjustment	Adjustment	Rating or	Remarks
	adjusted	terminal	required	locations	method	standard	
5	Sensitivity	FM ANT	FM SG		Lower the output	IOdBμ or	
		300Ω	98.IMHz		level of FM SG	less	
i			MONO IkHz		from 15dBµ so		1
			100% MOD		that ACVM reading		İ
		REC OUT	ACVM OSC	1	(S/N) is 30dB.		
				-	(Ratio between the	· ·	
					moduration (S) and	ĺ	
					non-moduration (N)		f
					is 30dB). And con-	1.00	
				• "	firm that the SG		
				·	level satisfied		
					the specifications.		
6	Separation	FM ANT	FM SG	VR2	Set SSG output to	More than	
	adjustment	300Ω	SSG	(SEPARAT-	L or R and make	36dB	
	aujustment	20025	98. IMHz	ION)		3000	
			70dB μ	I IUN)	signal leakage for		
			STEREO L.R		opposite channel		
			1		minimum.		
		REC OUT	ACVM L.P.F				
7	Confirmation of	FM ANT	FM SG		Receive 98.1MHz and	0±50mV	Tuned
′	discriminator	300Ω	98.1MHz	,	adjust so that	DCVM	
	balance	20075	70dB μ		•	DCVM	point
	Davance		MONO IkHz		digital voltmeter		
			100% MOD	·	reading is 0 ± 50 mV.		* *
		TPI and TP2	DCVM	-			
8	Signal meter	FM ANT	FM SG	VRI	Adjust that all		Confirm
٠	Signal meter	300Ω	98. IMHz	¥K1	signal quality		that all
- 1		20025	45dB μ		- ' -		
			MONO IkHz		indicators light		signal
					up.		quality
	1	TD2 1 010	30% MOD				indicators
		TP3 and GND	DCVM .			٠	go off at
ļ							detuned
						· ·=	point.
9	Confirmation	FM ANT	FM SG		Check that auto		Confirm
	of auto search	300Ω	98.1MHz		search reception		that muting
ŀ	reception		32dB μ/300Ω		is possible with		is perform-
			MONO IkHz		UP/DOWN key.		ed at auto
- 1	1 1	-	30% MOD				reception.

<AM TUNER SECTION>

- Connect the AM loop antenna to the AM ANT terminal.
- Connect the AM dummy antenna for adjustment to AM AG.
- Check that the AM SG precision is within ±0.1kHz.



Step	Item to be	Connection	Instrument required	Adjustment	Adjustment method	Rating or standard
	adjusted IFT	terminal AM ANT	AM dummy antenna	T2	Adjust so that the	
•	adjustment	Am Ant	AM SG	12	detector output is	'
	adjustment		1080kHz		maximum.	
			50dB μ		maximum.	
			, , , , , , , , , , , , , , , , , , , ,			
		REC OUT	400Hz,30% MOD ACVM	-		
		KEC OUT				
_	0 6: 1:	AM ANT	OSC			(0.10
2	Confirmation	AM ANT	AM dummy antenna		Lower the output level	60dB μ or less
	of		AM SG		of AM SG from 80dBμ	
	sensitivity	-	630kHz		so that ACVM reading	
	•		1080kHz		(S/N) is 20dB (Ratio	
			1440kHz		between the moduration	
		-	400Hz, 30% MOD		(S) and non-moduration	
		REC OUT	ACVM		(N) is 20dB). And con-	
			1		firm that the SG level	
		İ			is satisfied the	
					specifications.	
3	Signal meter	AM ANT	AM dummy antenna		All signal quality	When not adjusted
	full scale		AM SG		indicators light up.	none light.
			1080kHz			
			100dB μ			
·		ļ	400Hz,30% MOD			
4	Confirmation	AM ANT	AM dummy antenna		Check that auto search	Sound is muted
	of		Am SG	1	reception is possible	during search
	auto-search	1	1080kHz	1	with the UP/DOWN key.	operation.
			65dB μ			
-			400Hz, 30% MOD			

(DIGITAL CONTROL SECTION)

Step	Cofirmation	Connection	Instrument required	Operation key	Confirmation method
	item	terminal			
ı	Preset memory	300Ω	FM SG.SSG	-FM. AM	I.Receive FM 98.IMHz by means of auto
	*	FM ANT	98. IMHz	TUNING MODE	search.
			70dBμ STEREO.L.R	(AUTO)	2.Press MEMORY key→MEMORY indicator
			1kHz.100% MOD	TUNING	flashes about 5 seconds.
				(UP or DOWN)	3. Press PI→MEMORY indicator goes off
				MEMORY	and PI is displayed.
		AM ANT	AM SG	• PRESET	4.Receive AM 1080kHz.
`			AM dummy antenna	STATION	5.Press TUNING MODE key →AUTO indi-
			1080kHz ±0.1kHz	·PI-P8/P9-PI6	cator goes off.
			65dB μ		6.Press PI-8/P9-16 key→P9-16 indi-
			400Hz.30% MOD		cator flashes.
					7.Press MEMORY key→MEMORY indi-
	*				cator flashes about 5 seconds.
		ļ.			8.Press PI5 → MEMORY indicator goes
	İ				off and PI5 is displayed.
1			-		9.Press Pl and PI5 and check that
	- .				content is read out properly.
2	Tuning mode	Same as step I	Same as step	-FM.AM	I.Tune to FM 98.IMHz.
1	-			·TUNING MODE	2.Press TUNING MODE key →AUTO,STEREO
				(MAN'L)	indicators go off.
l				·TUNING	3. Tune to AM 1080kHz \rightarrow AUTO indicator
				(UP or DOWN)	goes off.
- 1					4. Check that Manual Search reception
	1 1 1 1 1				is possible with the UP/DOWN key.
3	Last station			PRESET	I.Press Pl. →FM 98.1MHz is displayed.
	memory			STATION PI	2.Turn POWER key off.
1				POWER	3. After 5 seconds, turn POWER key on.
		e e			4. Check that PI content →PI and FM
	<u> </u>				98.IMHz is displayed.

_	DOL	DΥ	CECT	I ON N
`	DUL	וס.	SECT	ノロバン

	DOUBY SECTIONS	,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·
Step	Item to be adjusted	Connection Terminal	Instrument required	Adjustment locations	Adjustment method	Rating or standard
I	Confirmation of frequency response (6kHz)	Q603 Emitter	ACVM A.F.OSC		Read the numerical valus of each ACVM when 400Hz & 6kHz signal is input to either Lch or Rch.	Within 2dB based on 400Hz. (I50mV RMS)
2	Dolby Output Adjustment	1C604(Ilpin)	ACVM A.F.OSC	VR504	Read Output Level of 1C604's llpin when signal of 400Hz & 150mV is input to either Lch or Rch	90mV ± 5mV
3	Confirmation of frequency characteristics	Rear SP Output	ACVM A.F.OSC	See Tab	le I.	
4	S/N confiramtion of surround Mode		ACVM A.F.OSC		Confirm the reading of the SP OUT according to each mode respectively when the signal of 400Hz. 150mV, is input.	DOLBY MODE : More than 55dB SIMULATED.NATURAL MODE: More than 60dB
5	Confirmation of SURROUND Amp.	Rear SP Output	ACVM A.F.OSC		Check the reading of the SP OUT when Signal of 400Hz,55mV RMS is input to input terminal.	21dBV±3dB(IIV.8 Ω)

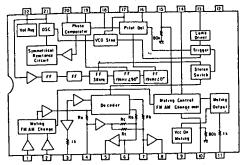
Table 1 : Confiramtion of Frequency Characteristics by each mode

Lch or Rch	NATUR	AL MODE	SIMULATE MODE	DOLBY MODE
Input	L	R	Both Channel	Both Channel
200Hz	0	±	-3.5dB ± IdB	
lkHz	6 ± 1	Less than	2.5dB ± 1dB	7kHz is -3 ± ¼dB DELAY TIME 20±4mSEC making
4kHz	Less than	7.0±2	Less than -6.5dB	400Hz=0dB the basis of the calculation.
l OkHz	5 ± 2	4.5±2	1.5dB±1dB	
400Hz	< 0.	7%	< 0.7%	<1.5%
VR501 NUL				Read the REAR SP OUT Terminal when a !kHz signal (the same level and inphase) is input to both Lch and Rch simultaneously. Less than -30dB(!kHz)

■ IC BLOCK

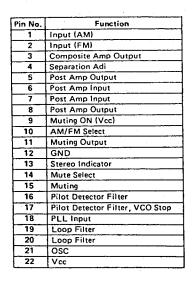
IC2 : LA3401

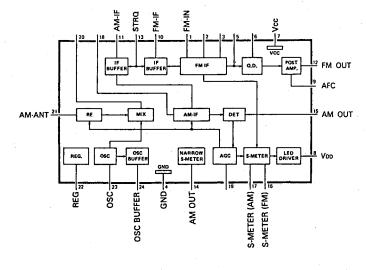
(MPX)



Щ,		161	٠
		(AM/I	-
لــ			

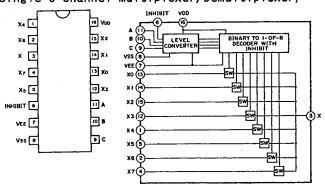
(AM/FM IF)	FM IN (-)	OSC BUFFER
•	ন	(E) OSC
	(a)	(x) REG
	GND (=)	(E) AM·ANT
	(G)	(8)
	6	(a)
	Vcc 🗿	a
	V20 @	(3) S-METER (AM
	AFC 🎯	S-METER (FM
	FM-IF (5)	(5)
	AM-IF (=)	AM OUT
F	м оит(ಫ)	∰STRQ





IC102,103 : TC4051BP

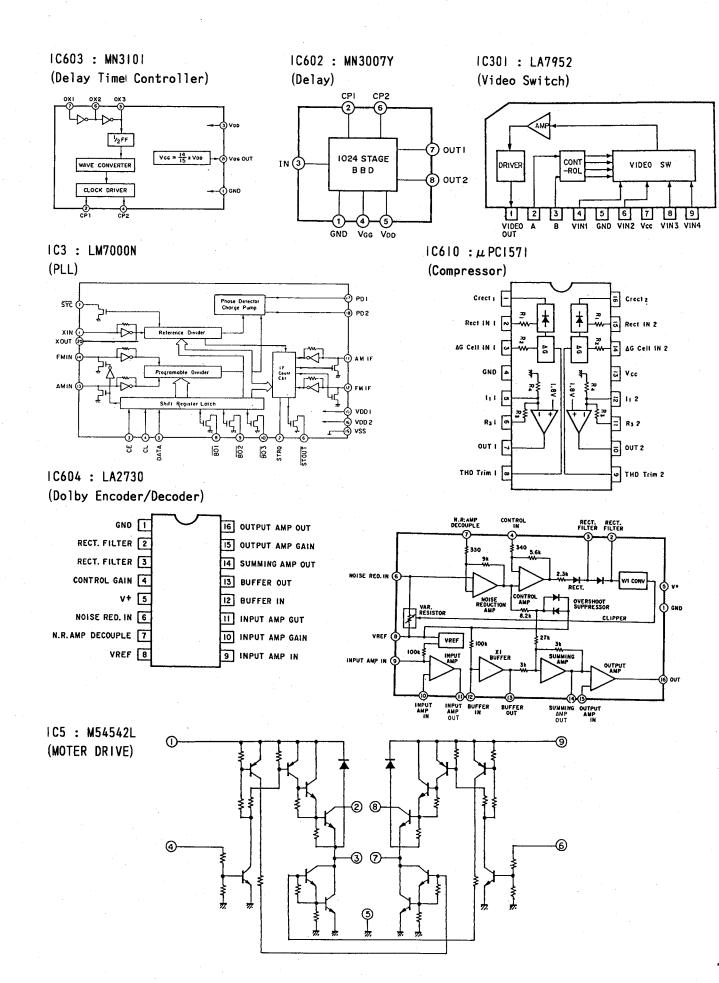
(Single 8-Channel Multiplexer/Demultiplexer)



Truth Table

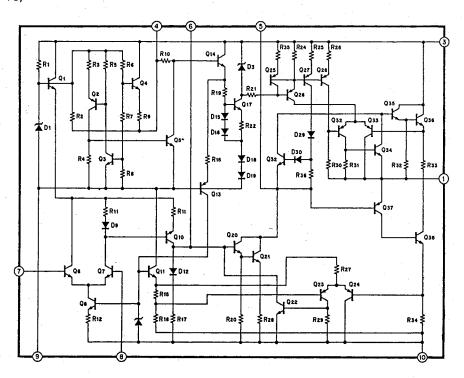
	CONTRO	OL INPUT		"ON"
INHIBIT	С	В	Α	CHANNEL
L.	L.	L	L	X ₀
L	L	L	Н	X ₁
L	L	Н	L	X ₂
L	L.	н	H	X ₃
L	Н	L	L	X ₄
L	Н	L	H.	X ₅
L "	Н	Н	L,	X ₆
L	Н	Н	Н	X ₇
Н	X	Х	X	NONE

H: HIGH LEVEL L: LOW LEVEL X: H or L



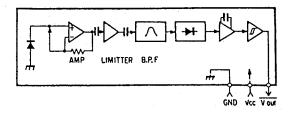
IC607,608 :μPCI188H

(Power IC)



U2 : GPIU50IX

(Remote Control Receptor Unit)



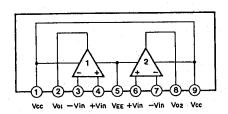
1C605,606 : NJM4558S

IC101,104 : NJM2043S (Pre-Amp)

(Ope-Amp)

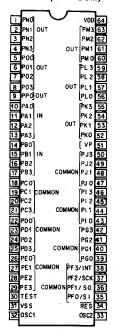
IC601,609 : μ PC4570HA

(Ope-Amp)



■ µ-COM DATA

IC4 : LC6554H-4084 (4-Bit μ - COM)



	PIN			TION	OPTION	PIN I		1/0	FUNCTI	AN .	OPTION
F-;-	PN 0	1/0	TP 0		PD	64	V _{DD}	170	Von	JN	OI I I ON
	PNI	0	TP I	CASSETTE RS SIGNAL	PD	63	PM 3	0	PLRS		PD
3	PN 2	0	TP 2	CASSETTE NO STORME	PD	62	PM 2	0	OUT 3	h	PD
4	PN 3	0	TP 3	·	PD	61	PMI	0		HNPUT SELECTOR	PD
5	PO 0	0	DI		OD	60	PM 0	0		CODE OUTPUT	PD
6	PO 1	0	D2		OD	59	PL 3	0	CDV	INPUT 7	OD
7	PO 2	0	D3	KEY DIGIT	OD :	58	PL 2	0	VCR 2	INPUT 6	OD
8	PO 3	0	D4	KET DIGIT	OD	57	PLI	0	VCR I	INPUT 5	00
9	PP 0	0	D5		OD	56	PL 0	0	TAPE/VCR	INPUT 4 H:ON	OD
10	PA 0	ı	KI			55	PK 3	0	DAT	INPUT 3 L:OFF	OD
11	PA I	-	K2	KEY INPUT		54	PK 2	0	TUN	INPUT 2	00
12	PA 2	Ė	K3	KET THEOT	- (EX PD)	53	PK I	0	CD	INPUT I	OD
13	PA 3		K4		- (EX PD)	52	PK 0	0		INPUT O	90
14	PB 0	- - -	CDD	CD DIRECT H:CD DIRECT	(CA TO)	51	Vp	-	Vp	PULL DOWN SOURCE to GND	-
'-		'	000	DISPLAY INPUT L:Normal	_	50	PJ 3	a	A MUT	AUDIO MUTE H:ON L:OFF	PU
15	PB I		SLEEP	SLEEP TIMER SW	_	49	PJ 2	0		TUNER TEST TERMINAL	PU
16	PB 2	1	8-6	AUDIO INPUT 8 IN ↔ 6 IN		48	PJ I	ō	MUTE	MUTE H:ON L:OFF	OD (EX PU)
'		·		SELECT (H:8 IN L:6 IN)	-	47	PJ 0	0	WIDE	FM IF RANGE SELECT	PU
17	PB 3		HOLD	(NC) to GND	-	46	PI 3	0	T MUT	TUNER MUTE H:MUTE L:OFF	OD (EX PU)
18	PC 0	0	PON	MAIN RELAY DRIVE H:ON		45	PI 2	0	MONO	MONAURAL H:MONO L:AUTO	OD (EX PU)
		Ì		L:0FF	PU	44	PI 1	0	INH	LC7583 INH	PU
19	PC I	ı	Al	TUNER Markets Select	PU RESET	43	PI 0	0	CE 2	LC7583 CE	PU
20	PC 2	ı	A2		PU "L"	42	PG 3	0	STRO	LM7000N STRQ	PU
21	PC 3	ī	PSW	LOCK SW(G model) H:ON		41	PG 2	0	CE I	LM7000N CE	PU
1				NON LOCK SW (EXCEPT G) L:OFF	OD O	40	PG I	0	C 1	LC7583	PU
22	PD 0	0	VI	VIDEO SIGNAL SELECT	PU RESET					LM7000N CLOCK	
23	PD 1	0	V2		PU	39	PG 0	0	DATA	LC7583	PU
24	PD 2	0	VOLUP	VR Motor IC DRIVE SIGNAL	PU "L"					LM7000N DATA	
25	PD 3	0	VOLDN		PU .	38	PF 3	1	REMO	REMOTE CONTROL INPUT	OD
26	PE 0	0	SP.A	"	PU	37	PF 2	0	ST0	ST OUT	PU
27	PE I	0	SP.B	HC '	PU	36	PF I	1	STSG	STOP SIGNAL	OD (EX PU)
28	PE 2	T	PODN	POWER DOWN DETECT	OD (EX PU)	35	PF 0	1	ST	STEREO	OD (EX PU)
				H:Normal L:Power Down		34	RES	ı	RES	RES	-
29	PE 3	0	STBY	SURROUND 4 - COM POWER DOWN	PU	33	OSC 2	<u>-</u>	OSC 2		
				SIGNAL		32	OSC I	-	OSC I		
				H:Normal L:Power Down		31	Vss	<u> </u>		<u> </u>	-
30	TEST	-	TEST	to GND	-						

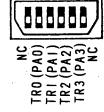
Input Selecter

Function (display) Pin No.	LD	VCR2	VCRI	TAPE2	TAPEI	DAT/ TUNER	CD	PHONO
PMO (60)	1	0	Ī	0	1	0	ı	0
PMI (61)	I	ı	0	0	I	-	0	0
PM2 (62)	1	1	- 1	1 1	0	0	0	0
PD0 (22)	I	1.	0	-	-	-	-	
PD1 (23)	Û	l I	I	-	-	-	· -	-

Remote Control (Tape)

Function (display) Pin No.	PLAY	44	≫		REC/ PAUSE	REC/ MUTE	A/B	DIR A	DIR B
PA0 (10)	0	1	0	T	1	0	ı	0	
PAI (II)	0	ı	ı	0	0	ı	ı	C	0
PA2 (12)	1	0	0	0	l i	1	ı	1	1
PA3 (13)	0	. 0	0	0	0	0	-	1	1

•remote Control Terminal (Tape)



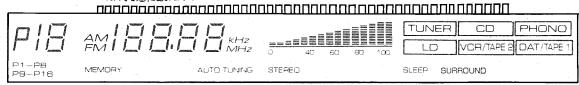
When checking the Remote Control function, connect the Remote Control Cable and Pin-plug cable securely.

(Pin-plug cable forms Remote Control GND circuit.)

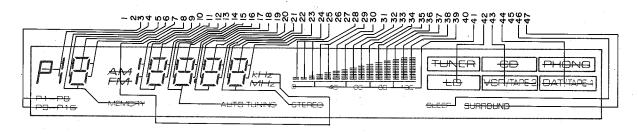
Remote Control (PHONO)

■ DISPLAY Pin Connection

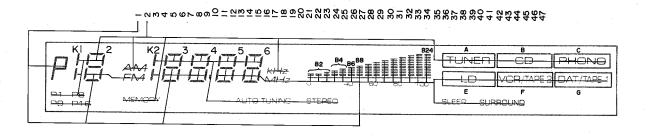
LCD : LCD8049MJP (AVR-75) LCD8049BJP (RX-830)



SEGMENT

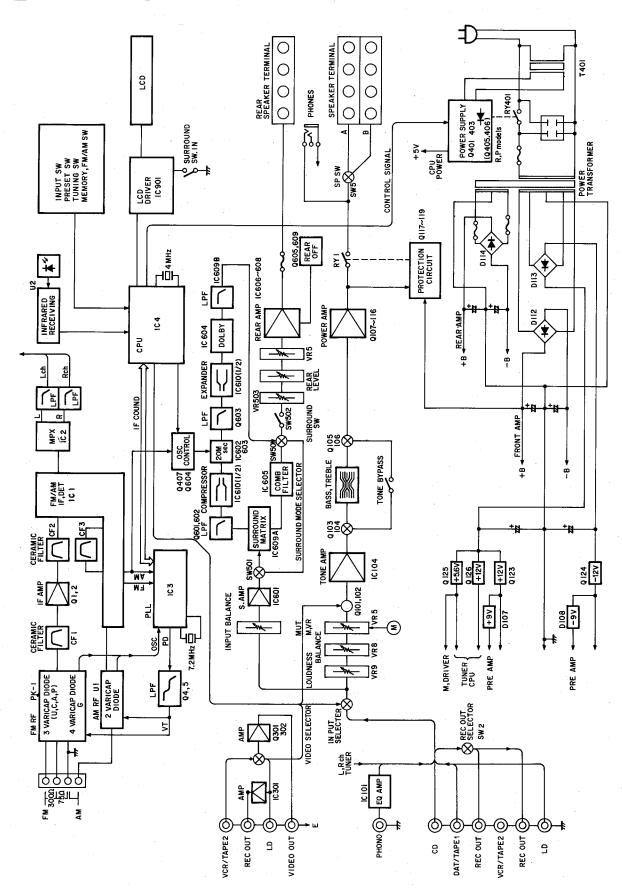


COMMON

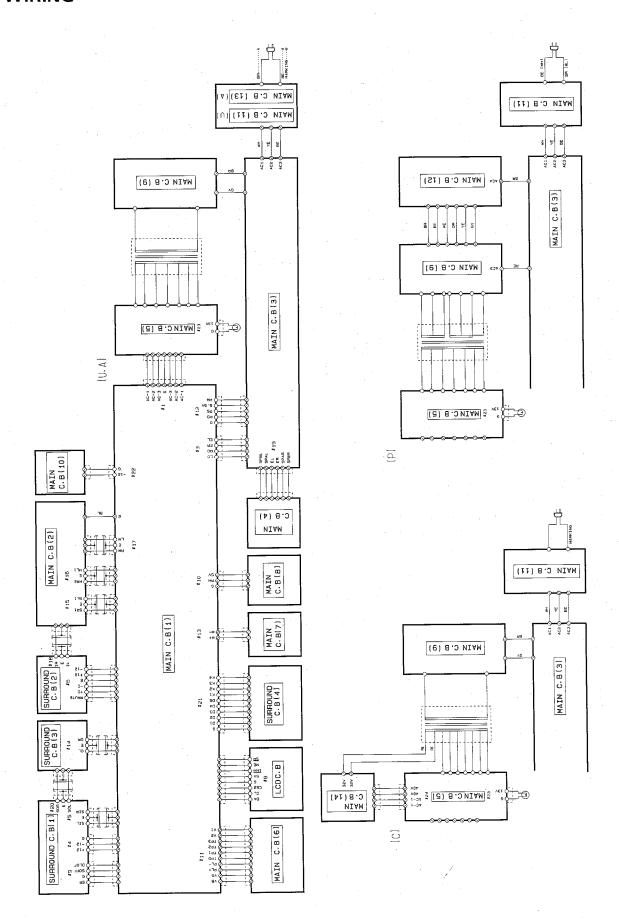


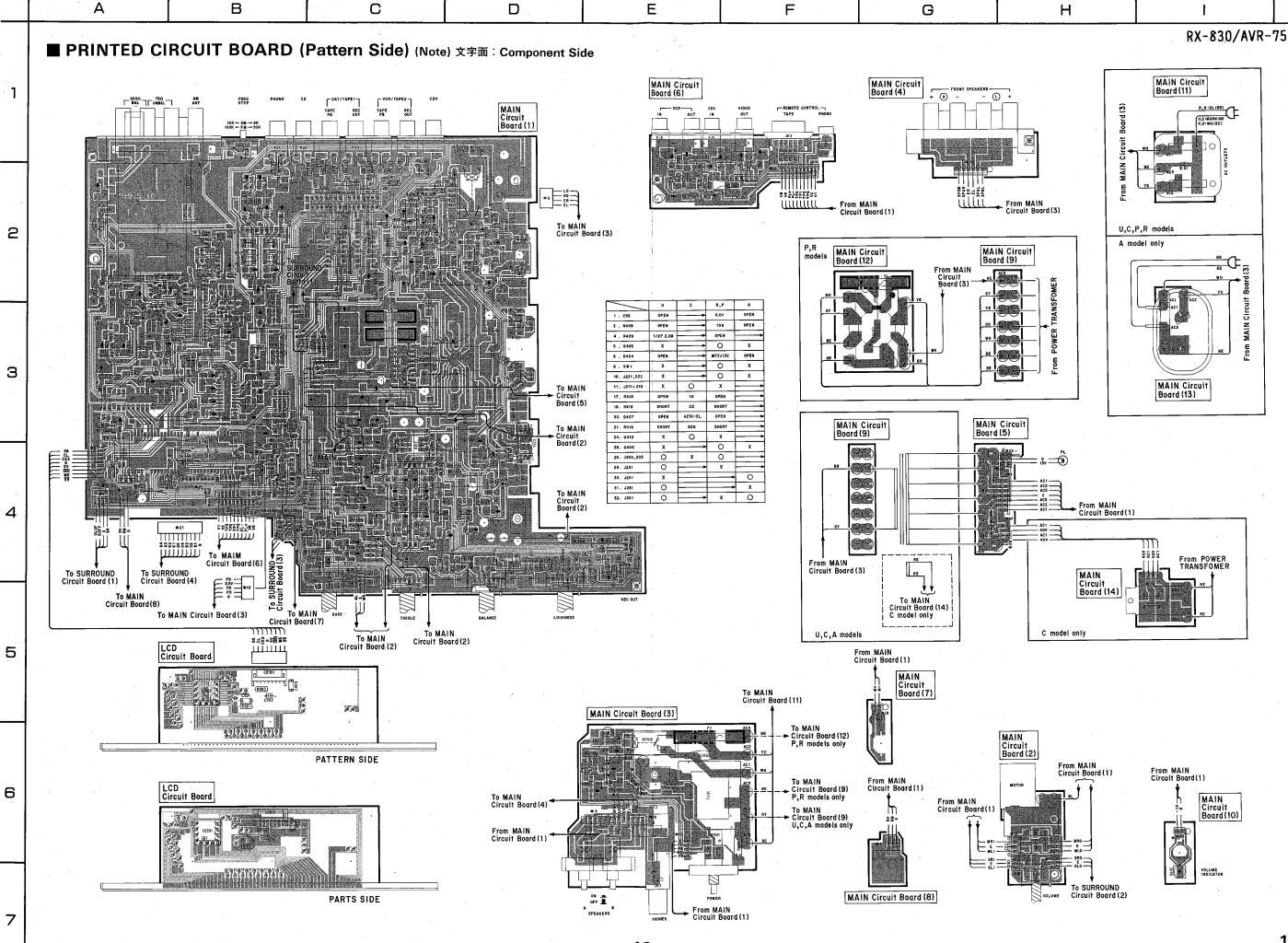
NO		2	3	4	5	6	7	8	9	10	- 11	12	13	14	15	16	17	18
COMI	-	COM	PI-P8	KI	MEMORY	2f	2a	2b	AM kHz	K2	3f	3a	3b	1)	4f	4a	4b	COL
COM2	COM	-	P9-P18	B P	2d	2e	2g	2c	FM MHz	3d	3е	3g	3с	4d	4e	4g	4c	5d
NO	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
COMI	5f	5a	5b	STEREC) 6f	6a	6b	-	_	-	-		-		-	-	-	_
COM2	5e	5g	5c	6d	6e.	6g	6c	-	-	B2	B4	B6	B8	BIO	BI2	BI4	B16	B18
NO	37	20	20	1 10		/2		- , ,	1.5		1.5	1 1)	AUTO	TIIN	LNG			
NO		38	39	40	41	42	43	44	45	46	47	'(—				
COMI	-	-	-	 -	 _	A .	<u>B</u>	<u> </u>	_			(2)	U	40		60	8,0	Į.
COM2	B20	B22	B24	<u> </u>	2)	E	F	G	_	SLEEP	<u>(8 9</u>] 3)	SURR	OHND				

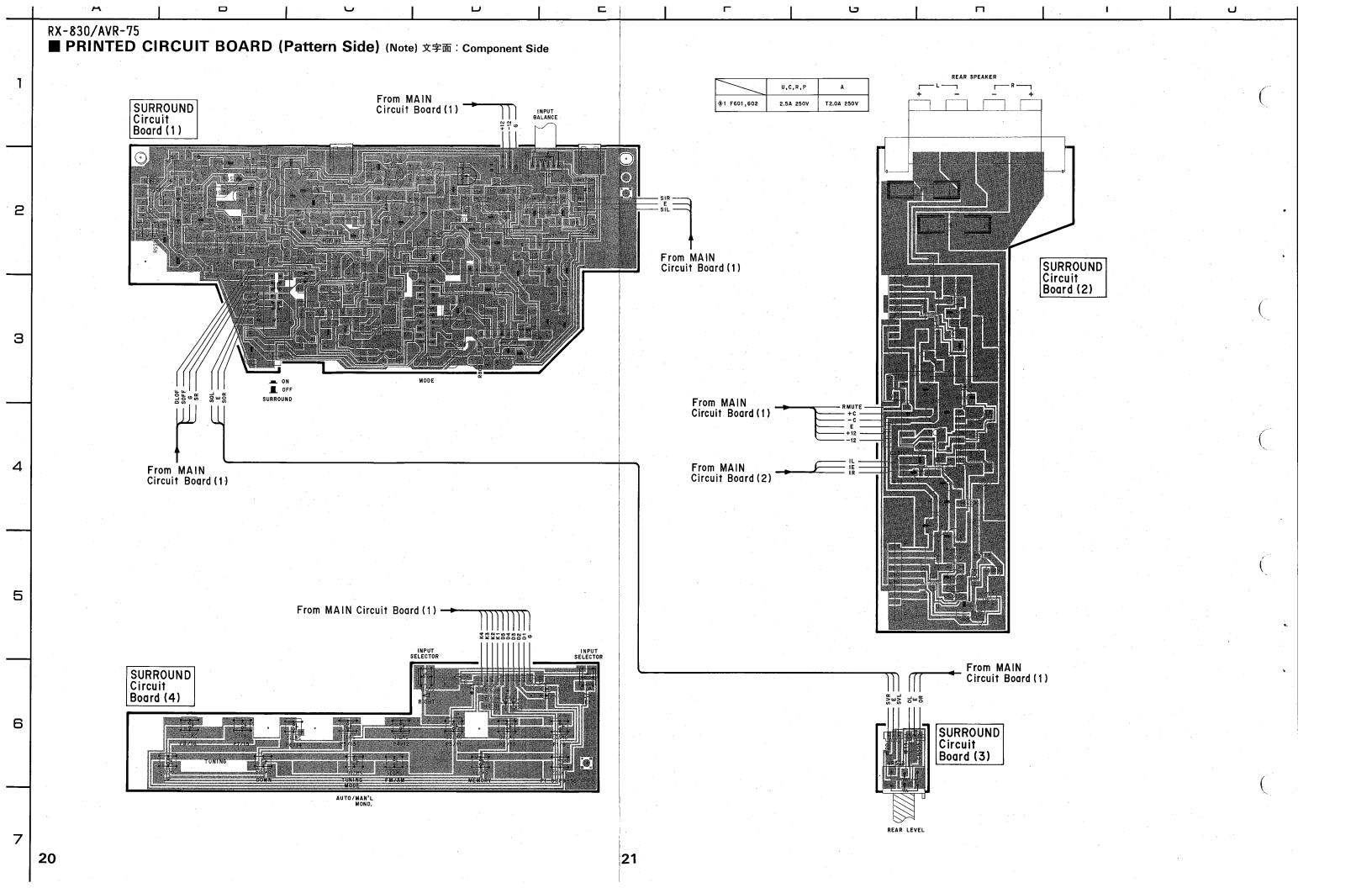
■ BLOCK DIAGRAM

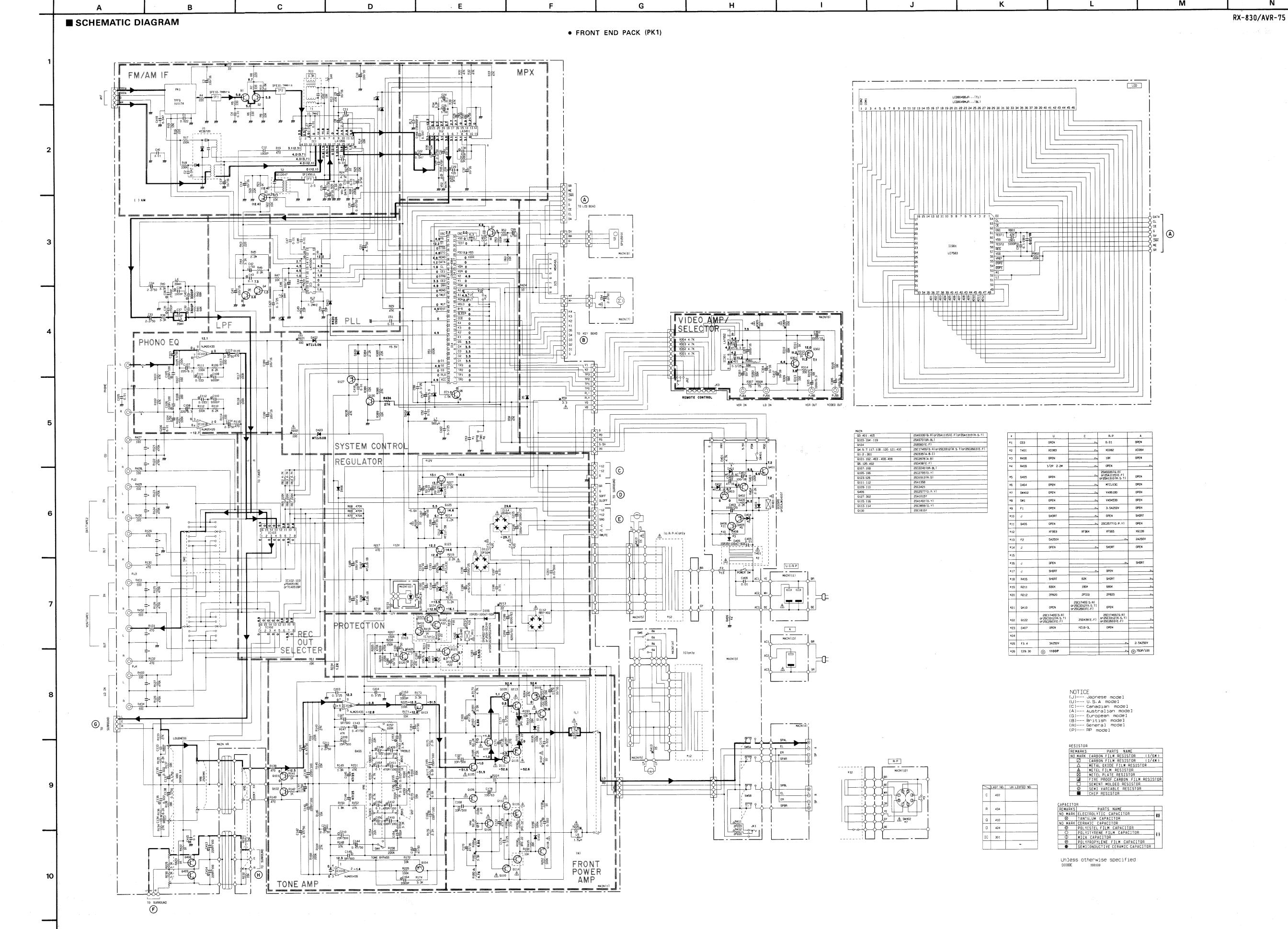


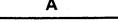
■ WIRING





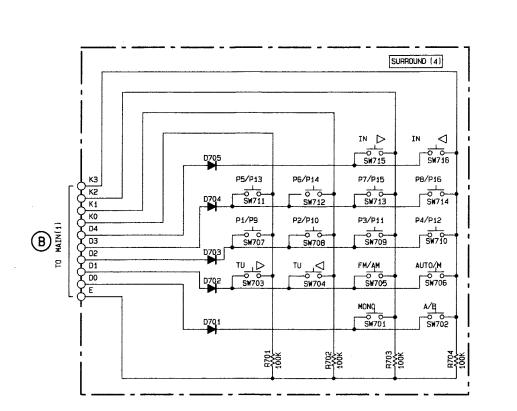




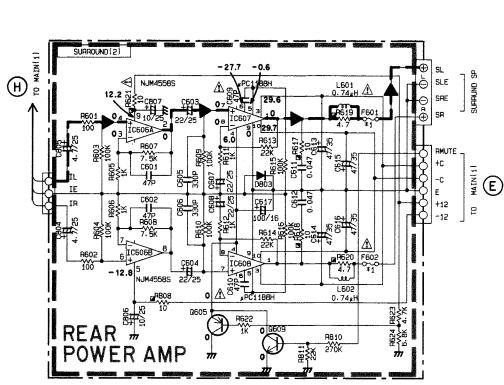


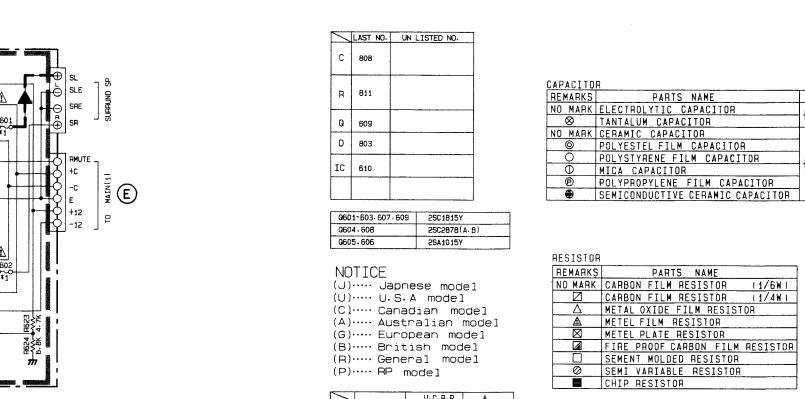
RX-830/AVR-75

■ SCHEMATIC DIAGRAM



D

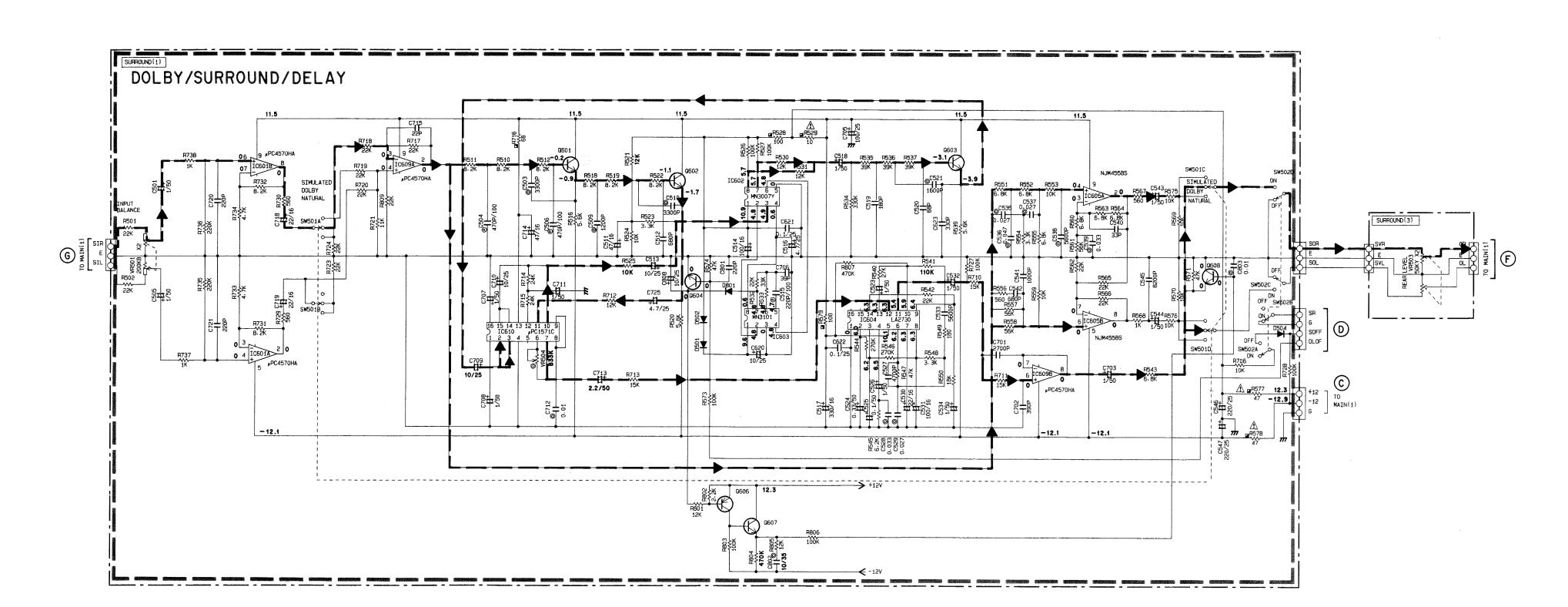




Unless otherwise specified

(B).... British model (R)... General model (P)····· RP model

*1 F601.602 2.5A250V T2.0A250V



■ PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODE AND ICS.

2SA1491 2SC3855 2SC2577	2SA933S 2SC1740S	2SA1015 2SC1815	2SA1115 2SA1310 2SC2603 2SC3312	2SC2705 2SB560 2SD438	2SD1913	DIODES	DF02M	RBV-402LF-4	284841	µ PC4570H). NJM2043S	LA3401	MN3101 MN3007Y	A1266	LM7000N	LA7952 NJM4558S	LC6554H	TC4051BP LA2730 μ PC157 [C	2SA1358 2SC3421	M54542L	μPC1188H
		2SC2240	28C535		B C	Anode	+	+~~	+ 2		12		13 24	20 110000000000000000000000000000000000				E C B	MANAHA COLOR OF THE PARTY OF TH	

M

PARTS LIST

■ ELECTRICAL PARTS

WARNING

Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed. Carbon resistors 1/6 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to the last Page.

No.		art	No.		Descript	ion			部	品	名		Remarks	Common Model	Markets	ラン:
	VG	56	30	00	Main Circuit Board			у -	イン	シ	<u> </u>				U	
	VG	56	31	00	//					//				·	R,P	
	VH	28	15	00	//			-		//					Α .	
	VH	66	15	00	" //					//					С	
	VA	76	12	00	Ceramic Cap.	33pF	50V	セ	ラ	=	ı ン	C49,5)			
	VA	30	26	00	//	0.01µF	500V			//		C201				
	Fi	41	41	00	//	0.01 <i>µ</i> F	VA-I	フォ	ーミン	/グセ	フコン	C406	Inter-	11.0		
	·Fi	51	41	00	//	0.01 <i>µ</i> F	DNS			//		"	changeable			
	FG	21	14	70		47pF	50V	セ	ラ	- =	ı ン	C44				
	FG	21	21	00	//	100pF	. 50V		٠.	//		CII				
	FG	21	24	70	//	470pF	50V			. //		C28				
	FG	21	26	80	//	680pF	50V		•	//		C133,	134	-		
	FG	21	31	00	//	1000pF	50V			//		CI2				
	FG	24	41	00	//	0.01 <i>µ</i> F	50V			//		C4,6,7,	18,19,45,47,48,51,52 98,205,206,405			
	FG	24	41	00	//	0.01µF	50V		-	//		C53			R,P	
	FG	24	42	20	//	0.022µF	50V			//		CI				
	FG	24	44	70	//	0.047µF	50V			//		C2,18	1,419			
	FZ	00	58	80	"/	0.1μF	25 ₁ V	積層	1 t	ラ	コン	C58,1	73,174,203,204, 120~422			
	FU	35	05	00	Mica Cap.	5pF	500V			 カ	コン	C147,				
	FU	35	П	50		15pF	500V			//		C209,				1
	FU	35	13	30	//	33pF	500V			//		C167,				<u> </u>
	\rightarrow	25			Mylar Cap.	1000pF	50V	マイ	イ ラ	_	コン	C37,38				1
		15		:	//	II00pF	50V	•		//		C29,30			U,C,R,P	1
		45		1	Polypropylene Film Cap.	750pF	100V	ポリ	 ノ プ		コン	C29,30			Α	-
	- +	25		-	Mylar Cap.	2700pF	50V	マ			コン		5,153,154			-
	- +	25		 	//	3300pF	50V			//		 	0,163,164			-
		25		: -		9100pF	50V			"		C109,		· · ·		
\dashv		25			<i>"</i>	0.01μF	50V			<i>"</i>		C416				+
		25	_	-		0.015µF	50V			<i>"</i>		C155,	EC			
		\rightarrow	42	 		0.013μF	50V			//		 '				
		\rightarrow		30		0.022μF 0.033μF	50V			"		<u> </u>	36,149,150,175,176	-		
		\rightarrow	44	+			500					C111,				┢
		- :		:		0.047µF				// .		ļ	1, 150 415			
		25		\vdash	//	0.1µF	50V	۱ فد	,	.//_			51,152,415			
		-	21	50	Polypropylene Film Cap.	150pF	1007	ポリ	ノプ		コン	C165,				-
	+		-	00	//	100pF	1001			<i>"</i>		C409,4				
	UT	\rightarrow			<i>"</i>	220pF	1007	•		<i>"</i>		 	06,139,140,413,414			-
	UT				<i>"</i>	470pF	1007					C411,4				ļ
	Ui					47μF	35V	ケ	=		ン	C171,1	12			_
	UJ	-		:	"	47μF	6.37			// , .		C307				ļ
	UJ	÷		:		100µF	6.3V			//		C182				
	UJ			\vdash	. //	220µF	6.3V			//		C107,			:	_
	UJ	<u></u>			//	1000μF	6.3V	·		//		C305,3				
	UJ	+			// %	l0μF	167			//			,16,31,32,179,180,191,192, 3,214,303,304,417			1
\dashv	UJ	\rightarrow	-	\vdash	//	47μF	167			//		C208,4				<u> </u>
	UJ	÷				100μF	16V			//			.46,185,186, 90,194,401			
	UJ	i	_		//	220µF	167			//		C193				
	ΟIJ	13	83	30		330μF	16V			//		C3				
	UJ	14	74	70	//	47μF	25V		- : -	//		C145,	46			
	UJ	15	74	70	//	47μF	35V			//		C169,	70			
	UJ	16	54	70	//	0,47μF	50V			//		C20,14	∼ 44			
	!	16	61	00	//	IμF	50V			//		C24~	27,56,103,104			

Ref. No.	<u> </u>	art N		Description	on		部 品 名	Remarks	Common Model	Markets	ランク
	UJ	16 6	2 20	Electrolytic Cap.	2.2μF	50V	ケミコン	C8,33,34,113,114,211,212			
	UJ	46 6	3 30	//	3.3μF	50V	//	C17			
_	IJ	16 6	4 70	//	4.7μF	50V	//	CI5			
	UW	67 7	3 30	//	33μF	63V	// .	C183			
	υJ	16 7	4 70	//	47μF	50V	//	C161,162			
	UJ	13 9	1 00	//	1000μF	167	"	C301,302			
	UJ	14 9	1 00	//	1000μF	25V	. //	C196,403			-
	UH	14 9	3 30	//	3300μF	25V	. //	C195			
	UH	15 9	3 30	. //	3300μF	35V	//	C215,216			
	UH	17 8	1 00	//	100μF	63V	//	C178			
	UL .	46 6	1 00	//	IμF	50V	ローノイズケミコン	C42			
	FM	11 6	1 00	//	IμF	50V	ВР⊐ン	C177			
	FM	11 6	2 20	//	2.2μF	50V	//	C23,54,181			
	UK	16 6	4 70	//	4.7μF	50V	. //	C21			
	UJ	16 5	1 00	//	0.1μF	50V	ケミコン	C137,138			
	VB :	17:0	1 00	"	4700µF	5.5V	バックアップケミコン	C57 Inter-			
	VC I	31 3	7 00	//	4700μF	5.5V	//	// changeable			
	VG :	÷		//	8200µF	63V	ブロックケミコン				
							<u> </u>	0.00,200			
	vc :	36:2	0 : 00	Coil	ImH		固定コイル	L1,2	**		
	VE :		+-	//	560μH		<u>"</u>	L7			
	VC	\rightarrow	 	//	1.5μΗ		空 心 コ イ ル				-
	GE !				39mH		固定インダクター	L3,4			
	GE .		-	· · · · · · · · · · · · · · · · · · ·	450kHz		AM IFT コ イ ル				
	+ +	 -		Discri Coil, FM	10.7MHz		FM 検 波 コ イ ル	+			
	70 7		100	DISCIT COII, TWI	10.719172		「Wift ル コ 1 ル	TI			
	XC (10 2	0 01	Power Transformer			爾语!=> -	TANK			
							電源トランス	T401		R,P	
	XC (//			//	//		U,C	
	XC (18 4	0 01	//			//	//		Α	
		- -	-				· · · · · · · · · · · · · · · · · · ·				
	VC 2	- i-	-		SFZ450JL		AM セラミックフィルター	· · · · · · · · · · · · · · · · · · ·	14,		
	GG (0 ; 0	5 ; 70	FM Ceramic Filter	SFE10.7MM	H-A	FMセラミックフィルター	CF1,2			
	-		-								
				Ceramic Resonator	CSB456F11		セラミック振動子	XLI .			
	VD 8				4MHz			XL3		·	
			+	Quartz Crystal	7.2MHz		水晶振動子	1 immer-			
	QU (0 3	3 00		7.2MHz		//	// changeable	•		
	HG 3	0 9	2 20	Carbon Film Resistor	2.2ΜΩ	1/2W	カーボン抵抗	R409		U,C	
	VH 7	8 9	7 00	Metal Oxide Film Resistor	4.7kΩ	1/2W	酸金抵抗	R179,180			
	HL 3	2 5	2 20	//	220Ω	2W	//	R411,412			
	HL 4	2 5	3 20	//	820Ω	2W	//	R212	,	U,R,A,P	
	HL 3	2 5	3 30	//	330Ω	2W	//	R212		С	
	HL S	3 2	2 20	"	0.22Ω	3W	// //	R189~192			
			-	Flame Proof Carbon Resistor	3.3Ω	1/4W	不燃化カーボン抵抗	R59			
	HV 4		- i	//	10Ω	1/4W	// //	R197,198,219,220,228,424			
			50	//	15Ω	1/4W	<i>"</i>	R413			
	HV 4	- 1 '		<i>"</i>	22Ω	1/4W	<i>"</i>	R213			-
· · · · · · · · · · · · · · · · · · ·		5 4	2 7 711 1			1/788	"	ILLIO .			
	HV, 4	 -	+		330	1 //١٨/	,,	D2 224			1
	HV 4	5 4	30	"	33Ω	1/4W	//	R3,224			
	HV, 4	5 4: 5 4:	30		33Ω 68Ω 100Ω	1/4W 1/4W 1/4W	// //	R3,224 R305 R221,222,306			

Ref. No.	Part No.	Descriptio	n	部 品 名	Remarks	Common Model	Markets	ランジ
	HV 45 62 20	Flame Proof Carbon Resistor	2.2kΩ 1/4W	不燃化カーボン抵抗	R185,186			
	HV 45 63 90	//	3,9kΩ 1/4W	' //	R181,182			
	HV 45 66 80	//	6.8kΩ 1/4W	//	R177,178,183,184		1 :	
	 	Pre-set Potentiometer	B2.2kΩ	半 固 定 抵 抗	VR3,4		-	
	VB 86 18 00	//	Β47kΩ	"	VRI,2		-	
	VG 80 61 00	Potentiometer	特80kΩ	可 変 抵 抗 器	VR7			
	VG 80 62 00	//	特100kΩ	. //	VR6			
	VG 80 63 00	//	MN250kΩ	//	VR8			
	VG 80 64 00	"	B300kΩ×4	//	VR9			-
	VG 80 65 00	Potentiometer with Motor	Υ100kΩ×4	モーター付可変抵抗器	VR5			
	iA 09 33 70	Transistor	2SA933S(Q,R)	トランジスター	Q3,401)			
	iA 11 15 10	//	2SA1115(E,F)	//	// Inter-		-	
	iA 13 10 00	" "	2SA1310(R,S,T)	//	changeable			
	iA 09 33 70	<i>"</i>	2SA933S(Q,R)	"	0405)		R.P	
	iA 11 15 10	"	2SA1115(E,F)		// Inter-		R,P	
	iA 13 10 00	<i>"</i>	2SA1115(E,F) 2SA1310(R,S,T)	//	changeable		R.P	
	iA 10 15 21	<i>"</i>		//	<u> </u>		Λ,Γ	_
	 - - 		2SA1015(Y)		Q127,302			-
-	iB 05 60 20	"	2SB560(E,F)	"	Q124			-
	iC 05 35 40		2SC535(A,B,C)	//	Q1,2,301			
	iC 18 15 C0	//	2SC1815(Y)	<i>"</i>	Q130	-		
	i A 09 70 00	<i>"</i>	2SA970(GR,BL)	//	Q103,104,119			_
	iC 17 40 70	<i>"</i>	2SC1740S(S,R)	//	Q410 Inter-		С	
	iC 33 12 00	//	2SC3312(R,S,T)	- //	" changeable		С	
	iC 26 03 20	//	2SC2603(E,F)	<i>"</i>	// J		С	
	iC 17 40 70	//	2SC1740S(S,R)		Q122 Inter-		U,R,A,P	
	iC 33 12 00	//	2SC3312(R,S,T)		" changeable		U,R,A,P	
	iC 26 03 20	. //	2SC2603(E,F)	//	<i>"</i>]		U,R,A,P	
	iD 04 38 10	//	2SD438(E,F)	<i>"</i>	Q122		С	
	iC 17 40 70	//	2SC1740S(S,R)	. //	Q4,5,7,117,118, 120,121			
	iC 33 12 00	//	2SC3312(R,S,T)	//	// Inter-	•——		
	iC 26 03 20	//	2SC2603(E,F)	//	"			
	iC 22 40 00	//	2SC2240(GR,BL)	//	Q107,108			
	iC 25 77 00	//	2SC2577(O,P,Y)	//	Q406		R,P	
	iC 27 05 00	//	2SC2705(O,Y)	//	Q105,106			
	iC 28 78 20	//	2SC2878(A,B)	//	Q101,102,403,408,409			
	iD 04 38 10	//	2SD438(E,F)	//	Q6,125,402			
	VC 40 80 00	//	2SD1913(R,S)	//	Q123,126			
	iX 60 85 10	//	2SA1358	//	Q111,112			
	iX 60 85 20	//	2SC3421	. //	Q109,110			
	iF 00 34 50	Diode	ISS133	ダ イ オ ー ド	DI~6,101~104,403, 406,420,421,424			
	iF 00 84 80	//	ISR35-100A	//	D106,405			
	VG 43 86 00	Zener Diode	MTZJ7.5B	ツェナーダイオード	DIII			
	VG 43 81 00	//	MTZJ6.2C	. // .	D402			
	VG 43 92 00	//	MTZJ9.1B	//	D107,108			
	VG 43 78 00	//	MTZJ5.6C	. //	D401	•		
	VG 44 06 00	//	MTZJ13C	//	D109,110,115			
	VG 44 06 00	//	MTZJ13C	//	D404		R,P	-
	VG 44 25 00	//	MTZJ24B	//	D105		-	
	iF 00 20 80	//	HZ16-3L	//	D407	<u> </u>	С	
	VG 43:59:00	"	MTZJ3 .0 B	<i>"</i>	D422,423		-	

Ref. No		Part	No.		Descriptio	n	部 品 名	Remarks	Common Model	Markets	ランク
	iH	00	09	90	Diode, Bridge	2B4B41	ダイオードブリッジ	DI14			
	VC	97	15	00	. //	RBV-402	. //	DI12			
	VΕ	36	79	00	//	DF02M	//	DI13			
	iF	00	42	70	LED	SLR-55URC3H	L E D	DI16			
_	iG	00	17	7.0	IC	TC4051BP	I G	IC102,103			
	iG	15	18	00	·//	LA3401	"	IC2			
	iG	08	02	00	//	NJM2043S	//	IC101,104			
	ХВ	76	00	01	//	LA1266	//	ICI			
	XD	52	40	01	<i>"</i>	LA7952	· //	IC301	,		
	XF	36	9C	00	<i>"</i>	LC6554H-4084	"	IC4			
	ХВ	81	80	01	//	LM7000N	"	IC3			
	iG	05	49	00	//	M54542L	//	IC5	<u> </u>		
	KA	80	45	50	Switch, Push	2-2	プッシュスイッチ	SW401			
	KA	90	69	10	Switch, Rotary	4-6 NS	リモートロータリースイッチ	SW2			
	VA	96	18	00	Voltage Selector		電圧切換器	SW402		R,P	
	VA	94	53	00	Switch, Slide	2-2 NS	スライドスイッチ	SWI		R,P	
									1		
	VG	60	42	00	Switch, Push	2-2\$	プッシュスイッチ	SW4			
	VG	 ;			//	2-2 2連		SW5			
	 			_	Switch, Slide	S-J0950-5	スライドスイッチ	SW6	1.	С	
	КВ	00	03	70	Fuse	3.5A 250V	ヒューズ	FI		R,P	
	КВ			-	1/2	2A 250V		F2		Α	
	КВ	:			//	UL ST-4 5A 250V		·	1	U,C,R,P	1
	VG	_	_		//	MT-4 3A 250V	//	F3,4	1	U,C,R,P	1
	КВ			_	//	2.5A 250V	·	F3,4	1	Α	1
	кс	00	19	40	Relay	DH24D2-OTM	リ レ ー	RYI)	1		1
	кс		_	-	//	JR2A-DC24V	//	// Inter-			
	VC				//	G5R-2232P DC24V 2A	"	changeable			
	VE		_		<i>"</i>	DCAJW14117	" "	RY401	-		+
		33		-							1
	- 1				Pin Jack	2P	ピンジャック	PJ5,6	+		1
	LB		_		// //	2P		PJ1			-
-	LB		_		//	4P	"	PJ2~4	· ·		+
<u> </u>	-5	-70							 	-	+
<u> </u>	I R	30	17	20	Phone Jack		ホーンジャック	JKI	1.	 	+
	 				Mini Jack	-	<i>ホーンシャック</i> ミニジャック		+		
	-0	10	31	JU	mill Jack	-		SIL	2 .		+
	VE	92	er.	nn	Remote Control Receptor Unit	GPIU50IX	リモコン受光ユニット	U2	+		+
	VF	34	00	00	Remote Control Receptor Unit	GE TOSULA	フレコン文元ユーット	02	1	-	+
	VC	21	Q2	00	EM Front-and Book	TEECHILL7A	EMフロントエンドパック	DKI	+	 	+
			_		FM Front-end Pack	TFFGIUII7A	FMフロントエンドパック		+	 	+
	VE.	36	12	υU	AM Coil Pack		AMコイルパック	UI	+	 	+
	1.5		00	-	OT Occurred to	CD.	07	11/2			-
	LB.	60	83	90	ST Connector Socket	6P	STコネクターソケット	JK3	+		
		_									
		oı!	υn '	. An i	Base Pin, XH	i-Type 4P	XH ベ ー ス ピ ン	CB10	1	t .	1
	LB :				· ·	i-Type 3P	// // // // // // // // // // // // //	CB2,4			+-

Ref. No.		Part	No.		Descriptio	n		部品名	Remarks	Common Model	Markets	ラン
	۷D	00	46	00	Base Pin, PH	і-Туре	3P	PHベースピン	CB3			
	۷D	00	48	00	//	i-Type	5P	//	CB8			
	٧D	00	53	00	//	i-Type	IOP	"	CB5		,	<u> </u>
		·										
+	I B	20	18	80	Fuse Holder Pin	PC-FHI		ヒューズホルダーピン				
		20	10		Tuse Holder Fill	101111		C1 XXXV C2				
-	. D	40	1.4	co	AC Outlet	NAZOO LO		10 7 th L L L			HODD	
-			_	:	AC Outlet	M7031-C		ACアウトレット			U,C,R,P	
		-			Speaker Terminal	8P		スピーカーターミナル				-
	VE.	36	52	00	Antenna Terminal	4P		アンテナターミナル				_
			_									↓
	LA	00	24	10	Wrapping Terminal	I-Type P=	10 2P				A	
	ВВ	06	95	10	Ground Metal			ランド金具				
					. *							
	VG	56	36	00	Surround Circuit Board			サラウンドシート	· ·		U,C,R,P	
	VΗ	54	44	00	. //			. //			Α	Τ
	FG	21	12	20	Ceramic Cap.	22pF	50V	セラコン	C715			
	FG	_	_	_	//	33pF	50V	//	C540			+
-	FG			-	//	39pF	50V	"	C706			
-	FG		 	,	//	47pF	507	<i>"</i>	C601,602,609,610			
	FG		-	!	//	68pF	50V	<i>"</i>	C520			+
				_					**,***		<u> </u>	+
	FG	_		_	<i>"</i>	180pF	50V		C519			+
	FG			_	<i>"</i> "	220pF	50V	"	C720,721,801	<u> </u>		
-	FG			-	//	330pF	500	//	C605,606,623			-
	FG	_		-	. //	390pF	50V	//	C702			_
	FG	_			//	680pF	50V	. //	C512,542			_
	FG	21	31	00	//	1000pF	50V	//	C541			
	FG	71	32	70	//	2700pF	50V	"	C701			
-	FG	21	34	70	//	4700pF	50V	"	C527			
	FG	21	35	60	//	5600pF	50V	//	C533			
	FG :	21	38	20	//	8200pF	50V	"	C545			
	FG	24	44	70	//	0.047μF	50V	//	C611,612			T
	FZ			-	//	0.1μF	25V	積 層 セ ラ コ ン	C621,622			
				_	Mylar Cap.	1200pF	50V	マイラーコン	C509		1	+
_	:											+
	FA :				//	1600pF 3300pF	50V	<i>"</i>	C521	<u> </u>		╫
	UA		_		//		50V		C503,510			╁
	UA			$\overline{}$		5600pF	50V	//	C538			+
	UA	_	_	_		0.01μF	50V	//	C712,803			<u> </u>
	UA		_		//	0.027μF	50V	//	C529,535,537			ļ.
	UA :			-	//	0.033μF	50V		C528,539			
	UA	25	44	70	//	0.047μF	50V	//	C536	·		
	UT	45	22	20	Polypropylene Film Cap.	220pF	100V	ポリプロコン	C515 .			
	UΤ	45	24	70	· // //	470pF	1000	//	C504,506			
	บป	13	72	20	Electrolytic Cap.	22μF	16V	ケミコン	C718,719,530			
	UJ	13	74	70	// :	47μF	167	//	C511,714			Γ
	UJ	13	81	00	//	100μF	16V	" //	C514,531,617			
	UJ	—			//	330μF	16V	"	C517	 		T
-	UJ				//	4.7μF	25V	//	C516,725,804,805			+
	UJ			-		4.7μ1 10μF	25V	"	C513,620,709,710,806~808		1	+
	UJ			_		10μF 22μF	25V 25V	"	C603,604,607,608	1.	+	-
I,		14	. 16	, LU	<i>"</i> ,	LLAIT	∠5 V	l "		1	1	1

Ref. No.		Part	No	•	Descriptio	n	部品名	Remarks	Common Model	Markets	ラン:
	IJ	14	82	20	Electrolytic Cap.	220µF 25V	ケーミーコーン	C546,547			
	UJ	15	71	00	//	10μF 35V	//	C802			
	IJ	15	74	70	"	47μF 35V	//	C613~616		,	1
	UJ	16	51	00	. //	0.1 <i>μ</i> F 50V	<i>II</i>	C525			
	UJ	16	53	30	//	0.33μF 50V	//	C524			+
	+	:	-	00	"	Ι <i>μ</i> F 50V	"	C501,505,518,523,526,532,534 543,544,703,707,708,711			_
	+-	-	:	20	<i>"</i>	2.2μF 50V	//	C713			+
-	1			1		212,41		0,10			\vdash
	GD.	an	ne	80	Coil	0.74μH	空心コイル	L601,602			+-
	100	30		100	COII	0.74μ11	王 九 コ 1 ル	L001,002			+
-	ш	15	24	70	Flores Proof Corbon Bosistor	4.70 1/4W	不辨 化士	DC10 C20			+
	-	<u> </u>			Flame Proof Carbon Resistor	4.7Ω 1/4W	不燃化カーボン抵抗	R619,620			ļ
		;	┼	00	//	10Ω 1/4W	<i>'</i> //	R529,617,618,621,808			<u> </u>
	_		!	70	//	47Ω I/4W	//	R577,578			<u> </u>
	_		. 	80		68Ω 1/4W	. //	R716			ļ
	+	-	-	00	//	100Ω 1/4W	//	R528,579			
-11	VB	86	17	00	Pre-set Potentiometer	B33kΩ	半 固 定 抵 抗	VR504	<u> </u>	1 1	
	<u> </u>	_		1							
	 		-	00	Potentiometer, Rotaly	B200kΩ×2	ロ — タ リ — VR	VR501			
	VH	49	27	00	//	Y50kΩ×2 φ16	//	VR503			
	iA	10	15	21	Transistor	2SA1015(Y)	トランジスター	Q605,606			
	iC	18	15	20	//	2SC1815(Y)	//	Q601~603,607,609			
	iC	28	78	20	//	2SC2878(A,B)	//	Q603,608			
									-		1
	iF	00	34	50	Diode	ISS133	ダイオード	D501,502,504,701~705, 801,803			
								801,803			T
-	iG	03	75	00	IC	MN3101	1 C	IC603			+
	iG	07	68	00	//	NJM4558S	//	IC605,606			
	iG	 	_	00	//	μPC1188H	//	IC607,608			1
		24		! -	//	μPC4570HA	//	IC601,609	*		
_	XD			\cdot	//	LA2730	. //	IC604			+
-	XE			-	//	μPC1571C		IC610			┼
	-			-		·					-
	XC	10	30	- 01	<i>"</i>	MN3007Y	//	IC602		·	┼
			70	- 00	0.11.1					14.	ऻ—
<u> </u>	_	_			Switch		ライトタッチスイッチ				1
				00	.'//	4/3	リモートスイッチ				ļ <u>.</u>
	VG	60	46	00	Switch, Push	4/2	プッシュスイッチ	SW502			1
							· · · · · · · · · · · · · · · · · · ·				<u> </u>
	ļ				Fuse	2.5A 250V	ヒューズタイラッシュ			U,C,R,P	<u> </u>
	КВ	00	13	30	//	T2.0A 250V	ヒューズタイムラグ	F601,602		Α	<u> </u>
:				-			4.0				_
					Base Pin, XH	i-Type 3P	XH ベースピン	CB501			
	LB				//	I-Type 6P	.#/	CB503			<u> </u>
	 			:	Base Pin, PH	i-Type 3P	PH ベースピン	CB504~506			
	VD			-	//	i-Type 4P	. //	CB507			
	VВ				//	I-Type 3P	//	CB510			
	LB	20	18	80	Fuse Holder Pin	PC-FHI	ヒューズホルダーピン				
	VG	74	10	00	Speaker Terminal	4P	スピーカーターミナル				
•	ВВ	07	13	60	Screw Terminal		ネ ジ 端 子				
							* *				
											1
	-			-							+

VH VF VH VF XB	23	74 70 31	00 00	LCD Circuit Board // Ceramic Cap		LCD表示シート	AVR-75	Model		+-
VF VH VF XB	46 05 46	70 31	00							
VH VF XB VB	05 46	31.	00		1	//	RX-830		-	†
VH VF XB VB	05 46	31.	00		1000pF 50V	円筒型セラコン				+
VF XB VB	46			//	0.1μF 50V		C902			+-
XB VB		13	i nn	//				,		_
VB	76		100		0.01μF 16V	//	C903			
VB	/6	+	-	10						
	į.	40	101	IC .	LC7583	I C	IC901			
	1	-	<u> </u>							
1,5	85	87	00	Base Pin, PH	I-Type 8P	PHベースピン	CB901		12.	
		<u> </u>								
				LCD Indicator	LCD8049MJP	L C D 表示器	AVR-75			
VH	20	85	00	//	LCD8049BJP		RX-830			┢
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	Parts	Parts (新	Parts(新規音	Parts(新規部品)						

RX-830/AVR-75 **■ EXPLODED VIEW** 7 C Model A Model (4) (4) (B) (9) (4)(4)(4)(4) 4(13) **50**−**€**₀ 2 R.Pmodels Only 4(6) -(2I) 14(2) IJ. (3) 3 (4)(1) (10) / **Q-** 12 48) 6 27 7 (I)—8 4 26 (22) (I3) (I) ⁽¹⁾ **4**(1) 5 **1** 38 **30**−Ø (8) 4(10) 33-() **4**(5) 6 35 (31) 24 7 31 44

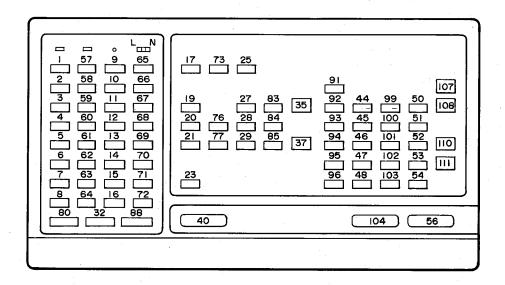
■ EXPLODED VIEW PARTS

	Ref. No.	Part No).	Descriptio	n	部 品 名	Remarks	Common Model	Markets	ランク
*	_	VH 28 10	00	Front Panel Unit		フロントパネルユニット	Black RX-830	1	U,C,A,P	
*	//	VH 28 11	00	"		//	Titan RX-830		U,C,A,P	
*	. //	VG 56 22	00	//		. "//	Black AVR-75		U,C,R,P	
*	2	VH 28 12	00	Sub Chassis Unit		サブシャーシユニット	Black RX-83			
*	//	VH 28 13	00	<i>"</i>		"	Titan RX-830			
※	//	VG 56 24	00	//		//	Black AVR-75			
	2-1			Ground Plate		アースプレート		-		
	2-2	CB 60 56	20	Plastic Rivet		プラスチックリベット				
*	3	VG 56 25	00	LCD Unit		LCDユニット	Black RX-830/AVR-75			
*	//	VH 23 81	-	//		//	Titan RX-830			
*	3-1	VG 78 64	00	LCD Indicator Circuit Board		LCD表示シート	Black			
*	//	VH : 23 : 74		//		//	Titan			
·	3-2	VG 43 31	00	Reflector, LCD		リフレクターLCD			-	
-	3-3	VG 43 33	+	Sheet, LCD		シートLCD	<u> </u>			 -
	3-4	VF 44 45		Lamp Cap		ランプキャップ				+-1
	3-5	CB 60 56		Plastic Rivet		プラスチックリベット				
*	4	VG 56 30	+			メインシート			U	+
*	//	VG 56 31	-	//		"	•		R,P	_
*	"	VH 28 15	-	<i>"</i>		. "			A	
*		VH 66 15		<i>"</i>		<i>"</i>			C	+
*	5		+	Transistor	2SA1491	<i>"</i> トランジスター	OUEUE			+-
*		iX 60 95	+	//	2SC3855	"			*	+
*	6	VG 43 30	-		2503655		Q113,114			+
*	7		1 1	Radiator	10×21					
*	8	VG 42 89	+	Sheet //	19×21	放 熱 シ ー ト				
*	9	VG 42 91	-		32×15			+ 1		\vdash
		EZ 00 13	-	Cup Tight Screw	3×14 FCRM3-BI					+
	10	BB 07 09		Pusher, TR		トランジスタ押え				-
	11	CB 60 56		Plastic Rivet	2) (0) F0140 BI	プラスチックリベット	OTE > \ /			-
	12	EK 33 60	+	BW Head Tapping Screw	3×8 FCM3-BI	BW ヘッドタッピングネジ	2種ミソ			
*	13	VG 84 09		Remote Rotary Switch, Operate		リモートロータリーSW操作部	*			-
*	14	VG 56 36	<u> </u>	Surround Circuit Board		サラウンドシート			U,C,R,P	
*	//	VH 54 44	+	//		//	,		A	+-
*	15	VC 62 61	÷		· · · · · · · · · · · · · · · · · · ·	A C アウトレット			A	1
*	16	ii	-	Power Transformer		電源トランス			U .	\sqcup
*	//	XF 96 4B				//			С	1
*	//	XF 96 5A	+	<i>"</i>		//	* .		R,P	-
*	//	XG 13 9A	+-1			//			Α	\perp
*	17	VG 80 74	-	Remote Rotary Switch, Operate		リモートロータリーSW操作部				\vdash
	18	CB 62 01	-	Cord Stopper		コードストッパー			R,A,P	
		CB 62 02	+ +						U,C	
ļ	19	MG 00 22	- -	AC Power Cord	10A 125V	A C 電 源 コ ー ド			U,C	
	//	MG 00 16		//	6A 250V	//	Inter-		R,P	
	"	VE 37 10		//	6A 250V		changeable		R,P	\perp
ļ	//	MG 00 23	+	//	7.5A 250V	//			A	
	20	VH 47 16	+ +	Lamp	115mA 14.5V	ラ ン プ	_			
	21	AA 62 55		Top Cover		トップカバー	Black RX-830/AVR-75	R-3		<u> </u>
*		VH 24 94	-	//		//	Titan RX-830			<u> </u>
	22	VG 64 66	;	Frame, Shield -		シールドフレーム		RX-330		
*	23	VH 24 95	+ -	Rear Panel		リヤパネル	RX-830		Р	
*	"	VH 24 96	\rightarrow	//		//	//		U	
*	" //	VH 24 97	•	//		, //	" .		А	
*	//	VH 65 85	00	//	·	' //	//		С	

	Ref. No.	F	art	No.		Descriptio	า			部	品	名		Remarks	Common Model	Markets	ラング
ĸ	23	VG	42	80	00	Rear Panel			IJ	ヤ	パ	ネル		AVR-75		R,P	
ĸ	//	VG	42	81	00	//·					//			//		U	
×	//	VH	65	86	00	//					//			//		С	
Ī	24	СВ	62	07	30	Leg					脚				A-750		
	25	VA	77	29	00	Support, P.C.B		-	基	板	ナポ	- h					
Ī	26	VG	42	93	00	Button	1/6/25	-	ボ		タ	シ	Black		RX-330		
1		VG	42	96	00	//	1/6/25				//		Titan		RX-1130		
Ī	27	СВ	66	07	90	//.	3×14				//		Black		AX-900		
ĸ.	//	VH	64	90	00	//	3×14		4		//		Titan				
Ī	28	VH	08	78	00	Shield Plate	·.		シ・	ール	ドプ	レート			RX-330		
Ī	29	СВ	66	08	10	Button			ボ		タ	ン	Black	POWER	AX-900		
Ī	//	VE	54	43	00	//					//			//	AX-700D		
t	30	VC	40	57	00	Knob		· ·	7			ブ	Black		RX-700		
Ì	. //	VE	94	10	00	//					//		Titan		KX-R700		
t	31	VG	42	86	00	//	φ48 L	.ED			' //		Black	VOLUME	RX-730		
t	//	VG	42	88	00	//	φ48 L	.ED			//		Titan	//	RX-1130		
ŀ	32	VG	42	85	00	Spacer			ス	ペ	-	サー			RX-530		
1	33	-		82		Knob	φ20		1			ブ	Black	BASS, TREBLE BALANCE	A-520		T
_ĕ ├	//	VG				//	φ20			•••	//		Titan	//			
ŀ	34	СВ		-	-	//	φ20				//		Black	LOUDNESS	R-3	 	
, 		VG	-+	-1	_	// .	φ20				//		Titan	//		1.	
ł	35	СВ	63	82	80	- //	φ20				//		Black	REC OUT	A-520		†
ا ۽	- //	VH	:			//	φ20				//		Titan	//			
į t	36	VG	\rightarrow			Rod				-	·y	۴					
t	37		+	04	-	Ring			IJ		ン	グ	<u> </u>		RX-330		
ŀ	38	 	:	55		Damper			ダ	ン	,	٠ –					
ŀ	39	- :		73		Ground Terminal	STG-3>	<13	_			ミナル				<u> </u>	1
ŀ	40		-	00		Binding Head Screw	3×6	FCRM3-BI				ヽネジ	PACK			-	\vdash
ŀ	41	-	-+	04		Tapping Head Screw	3×8	FC _i M3-Bi				゚ングネジ					
ŀ	42	+ +	\dashv	00	\rightarrow	Binding Head Tapping Screw	3×8	FCRM3-BI				ングネジ	PACK				
ŀ	43	- :		00	-	Flat Head Tapping Screw	3×6	ZMC2-BI				グネジ	PACK				
ŀ	44		-	10	\rightarrow	Binding Head Tapping Screw	3×10	ZMC2-BI				ングネジ	PACK				
ŀ	45	 	+	60	\rightarrow	BW Head Tapping Screw	3×8	FCM3-BI				ングネジ					
ŀ	46	+	+	00	-1	Binding Head Tapping Screw	4×8	FCRM3-Bi				ングネジ	PACK			 	+
ŀ	47	 		00	\dashv	//	3×6	ZMC2-Y				- / - /	PACK			1	
\mathbf{f}	48	-	-	-		Cup Tight Screw	3×14	FCRM3-BI	カ 、	ップF		トネジ					-
ŀ	49	-	-+	-+	-	Pan Head Tapping Screw	2.6×8	FCM3-Bi				グネジ				+	+
ŀ	50	+ +		\rightarrow	\rightarrow	BW Head Screw	4×8	FCM3-BI				<u>ノザノ</u> 小ネジ					+
ا ڊ		-	-			BW Head S-Tyte Screw	4×8	FNM3-Bi				<u> </u>		RX-830(Ti)		 	+
1	 51	-			-	Chassis	77.0	, min Di	シ	ヤ		- シ		. 10. 000(11)	RX-330		+-
+			+		-	Binding Tie	BK-I					クタイ	PACK				+
}	-	55	-	-	-	Small Fig.	<i>2</i> 10 1				/		17.01			1 :	+-
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Ref. No.		Part	No		Descriptio	n .	部 品 名	Remarks		Common Model	Markets	ラン
				-	Accessories		付 属	品				
	VG	80	49	00	75Ω FM Antenna		F M アンテ	ナ				1
	· VA	94	59	00	ST Connector	6P	STコネクタ			•	٠,	
	Mi	08	17	80	Mini Plug Cord	1.2m	ミニプラグコ-					
		<u> </u>		<u> </u>	Remote Control Transmitter		リモコントランスミッ		X-830			1-
				! 	Dry Cell	AA, SUM-3	単 3 乾 電		//			+
	VG	91	77	nn	Remote Control Transmitter	RS	リモコントランスミッ		VR-75			+
		· ·	···	100	Dry Cell	AAA, RO3	単 4 乾 電		//			
	VE	26	62	00	Loop Antenna	AAA, 103	ループアンテナスタン		"			
				-		1 -1 -1			× 000			
	VH	44	79	; 00	Accessories Ass'y	Label	付属品/	Ass'y H	X-830			
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■ REMOTE CONTROL TRANSMITTER



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			FUNCTIO	N ·	en en en en en en en en en en en en en e	water consistent	odocumen	r source entropy
Key	CONTROL		RX- RX	RX	AVC	AV	MRX =90M	MRX -90M
No.	CODE		1130 -980	-830	-70	-55		
1~16		LEARNING	olo	0	Ö	Ю.	(y	6
17	7A-5C	EQ PRESET DOWN	1010	0	O.	×	ΚŊ	(6)
18	7A-1E	-						
19	7C-01	LD OPEN/CLOSE	0.10	0	0	(5)	O	Fo
20	7C-02	LD CHAPTER"-"	010	0	Ó	M.	TO.	(5)
21	7C-0A	LD STILL	0 10	0	0	TO!	10	0
22	-			_			1	
23	7A-57	SLEEP	and the same of th	0	×	X.	X	()
24	_	· —		_				
25	7A-5A	EQ ON/FLAT	1010	0		X	O.	
26	_	· -		_				
27	7C-04	LD PAUSE/STOP	0.0	0	- ()	0	(0)	O,
28	7C-06	LD SEARCH ◀◀	0 0	0	0	(O)	0	0
29	7C-12	LD SOUND	O O	. 0	0.	O:		0
30	— ·	-						
31	7A-1C	MUTING	0-0	×	()	-X4	ıχ	i X
32		LEARNING	010	0	0	(2)	0	(0)
33								
34	7A-55	_			ŢΥ		ΤV	BS
35	7A-17	LD	0.0	0	E0/cdv	0	10:	0
36	7A-54	<u>-</u>			AUX			
37	7A-0F	VCR 1	010		0	0	0	0
38	7A-13	VCR 2	10 0	×	O.	TAPE 2 WOR 2	10	10
39					Ō			
40	7A-1F	POWER	940	0		****	0	100.0
41	7A-52 7A-58	MODE UP	(2 X				More	4000
42	/A-56 —	MODE UP		×	(2)		MODE	MUUI
44	7A-0A	CD SĶIP ▶		-	0		0	201
45	7A-0A	CD SEARCH D	olo	$\frac{1}{0}$		Ō	100	1
46	7A-11	TUNER PRESET DOWN	010	Ö	/\			
47	7A-17	TAPE DIR A	δľŏ	0	6		PLAY 4	
48	7A-01	TAPE ◀◀	0.16	ŏ				S. MATERIA SECURITARIO
49	-	_						
50	7A-4F	CD DISC UP	ollo	0	()	(r)	X	l x
51	7A-08	CD PLAY	OLO.	Ö		()	lo	Ö
52	7A-12	P1-8/P9-18	OLO	Ŏ	A/8/0	Ö	(3)	TV/F)
53	7A-40	TAPE DIR B	04 O	Ŏ	Ol	0		PLAY.
54	7A-02	TAPE ▶▶	olo	Ŏ	.O	O.	0	O
55	_	_		_				
56	(7A-1A)	(VOLUME UP)	010	0	O	0	10	Ю

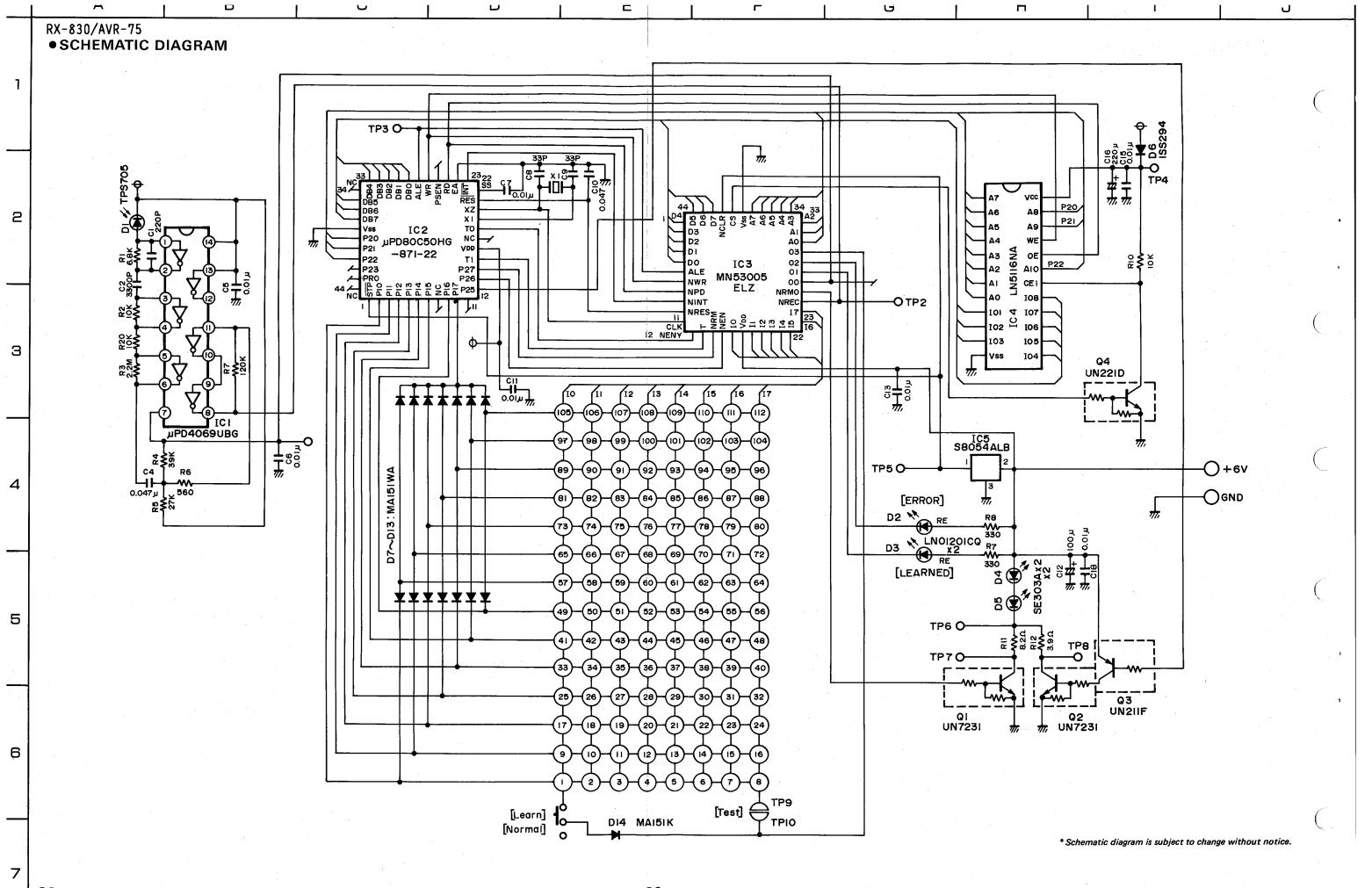
			FUN	ICTIO	Ň				-
Key	CONTROL		RX=	ĐХ	RX	AVC	ÄV	MRX	MRX
No.	CODE	* -	1130	930	-830		-55	-90M EX	-90M j
57~72		LEARNING		0	0	0	(C)	0	0
73	7A-5B	EQ PRESET UP	10	Ō.	0	6	X	(9)	0
74	7A-1D	-			_				
75	-	_			_				
76	7C-03	LD CHAPTER"+"	0	0	0	0	0.	. 0	0
77	7C-0B	LD STILL	0	0	0	0		0	0
78	· —	. –			_				
79	_				_				
80		LEARNING	0	0	0		10	0	O
81	_	_			_				
82	— .	_							
. 83	7C-05	LD PLAY	10	Ο.	0	0	Q.	0.	Ō.
84	7C-07	LD SEARCH ▶►	O	0	0	0	0	O.	O
85	7C-13	LD DISPLAY	0	0.	0	0	O.	10	()
86		_			_	144			
87	-	_			_		il.		
88		LEARNING			0		(0)		(3)
89	7A-53	DELAY TIME DOWN	O	X	X		X	X	X
90	7A-59	MODE DOWN		X	X	lo.	×	X	×
91	7A-0E	PHONO PLAY/CUT	(5)	O	0	0	NO.	01	0
92	7A-0B	CD SKIP 🖊	101	(6)	0	0	· (D)	10	(0)
93	7A-0D	CD SEARCH ◀◀	10		0	O	0	O	(0)
94	7A-06	TAPE DECK A/B	l O	O	0	0	0	(0)	()
95	7A-04	TAPE REC/PAUSE	70	0	0	0.	0	O	O
96	7A-05	TAPE REC MUTE		0	0	()	(1)	0.	0
97	7A-5F	REAR LEVEL DOWN		X	×	O	×	0	0
98	_	-			_				and the same of
99	7A-50	CD DISC DOWN	HO	O	0	0	O	X	X
100	7A-09	CD PAUSE/STOP	0	0	0	10	0	Constitution of the last	0
101	7A-10	TUNER PRESET UP	401		0.	O.	0	0	10
102	7A-00	TAPE PLAY	0	0	0	0	0	X	X
103	7A-03	TAPE STOP	0	0	Ō	0.	0	0.	0
104	(7A-1B)	(VOLUME DOWN)	LO.	O	0		(0)	O:	0
105	7A-56	SURROUND ON/OFF	0	X.	×	-O	X	X	×
106	7A-5E	REAR LEVEL UP	l Oi	X	×	Or	X	O.	10
107	7A-14	PHONO	*O.	0	0	O.	0	0	10
108	7A-15	CD	O	O	0	0	0	CD/CDV	CD/CDV
109	_				_				
110	7A-16	TUNER		#O#	-0	O	O.	0	0
111	7A-18	TAPE 1	0	O		TAPE	0	TAPE	TAPE
112	7A-19	TAPE 2	0	0	×	DAT	AUX	DAT	DAT

EXPL	ODFO	VIEW
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	MEXPLODES VIEW	
1		
		-(4)
2		
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4		
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		Note) A hook is provided at each
		position marked with an arrow (+).

Ref. No.	F	art	No.		Description	ın .	Remarks	Common Model	Markets	ラン	
	VG	80	79	00	Remote Control Transmitter		リモートコントロールトランスミッター				
1	СХ	60	79	00	Case (A) Ass'y		上 ケ ー ス Ass'y				
2	сх	60	79	10	Case (B)	****	下ケース		UR66CS200	· · · · · ·	
3	сх	60	79	30	Ŀid		電 池 蓋		UR66EC201		
4	сх	60	79	50	Filter, Smoke		スモーク板	-	UR66SB257		ľ
5	сх	60	79	60	Rubber, Contact (A)		ゴム接点 (A)		UR66CT202		
6	СХ	60	80	20	// (B)		// (B)		UR66CT203H		
7	СХ	60	80	80	//		//		UR66CT204H		
8	-	_		-	Knob		ツマミ		UR66VTM83	٠.	T
9	NX	60	39	20	P.C.Board Ass'y		プリント基板 Ass'y		UR66VPB77		1-
		_			Terminal, Battery		共 通 電 極 板		UR66TD239		1.
11					Flat Head Tapping Screw	2×6 FCRM3-BI	皿タッピングネジ		XTS2+6GFZ		
12					Pan Head Tapping Screw		ナベタッピングネジ		XTB+5GFZ		+
				90	Turning Coron	ZNO ZINOZ I	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TAOK	ATD TOGEZ		
					-			3			
.		_			P.C.Board Ass'y		プリント基板 Ass'y		UR66VPB77		
				_	Photo Diode	TPS705	フォトダイオード				\perp
		_			LED (Red)	LN01201CQ		D2,3			<u> </u>
	iX	61	22	90	LED	SE303AS	赤 外 線 L E D	D4,5			
									*.		
	QX	60	02	70	Ceramic Resonator	CSA737MTTF	セラミック発振子	ΧI	*		-
	UJ	П	81	00	Electrolytic Cap	100μF 6.3V	ケミコン	CI2	ECEAIAUIOII		
	UJ	IJ.	82	20	//	220μF 6.3V	//	C16	ECEAIAU2211		
	LX	60	25	30	Terminal, Battey		電 極 板	_	UR66TD209		
	LX	60	25	40	//		. //	+	UR66TD208		
							-				
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■IC DATA

IC2: μPD80C50HG-871-22 MICRO COMPUTER

Pin No.	Pin Name	Function
1	STOP	Microcomputer hard stop
2	P10	
3	P11	
4	P12	
5	P13	
6	P14	KEY SCAN OUTPUT
7	P15	
8	NC	N.C.
9	P16	
10	P17	
11	P24	SRAM OUTPUT (A12)
12	P25	Base band waveform output
13	P26	Data bus opened to GATE ARRAY at LOW and to SRAM at High
14	P27	Modulated waveform envelope output
15	T1	ALE of clock input
16	VDD	+6V
17	NC TO	N.C.
18	TO	Light receiving waveform envelope input
19	X1	Main clock (7.36MHz)
20	X2	DECET MANUE
21	RES	RESET INPUT
22	SS ĪNT	Single step
23	EA	Both edges of light receiving envelope or key scan interrupt Internal ROM at Low and external ROM at High
25	RD	Read timing output to GATE ARRAY and SRAM
26	PSEN	N.C.
27	WR	Write timing output to GATE ARRAY and SRAM
28	ALE	Address fetch timing output
29	DBO	/tourses retent timing surput
30	DB1	
31	DB2	
32	DB3	
33	DB4	Data exchange with GATE ARRAY, SRAM
34	NC	
35	DB5	
36	DB6	
37	DB7	
38	Vss	GND
39	P20	(A8)
40	P21	SRAM OUTPUT (A9)
41	P22	SRAM OUTPUT (A10)
42	P23	(A11)
43	PRO	- N.C.
44	NC.	IN.C.

IC3 : MN53005ELZ GATE ARRAY (Learning Disital Processing)

Pin No.	Pin Name	Function
1	D4	
2	D3	
3	D2	Data exchange with microcomputer
4	D1	
5	D0	
6	ALE	Address latch timing input from microcomputer
7	NWR	Data input timing input from microcomputer
8	NRD	Data output timing input from microcomputer
9	NINT	Interrupt output to microcomputer
10	NRES	Reset output to microcomputer
11	CLK	Main clock (7.36MHz)
12	NENV	Light receiving waveform envelope output
13	Т	ALE of clock output
14	NRM	Modulated waveform envelope input
15	NEN	Data bus opened to GATE ARRAY at Low and to SRAM at High
16	10	KEY SCAN INPUT
17	VDD	+6V
18	11	
19	12	
20	13	
21	14	KEY SCAN INPUT
22	15	
23	16	
24	17	
25	NREC	Receiving waveform input
26	NRMO	Modulated waveform output
27	00	Pre-amplifier control
28	01	''LEARNED'' Control
29	02	"ERROR" Control
30	03	Slide sw SCAN OUTPUT
31	A0	
32	A1	
33	A2	
34	A3	SRAM address
35	A4	
36	A5	
37	A6	
38	A7	
39	Vss	GND
40	CS	SRAM CS control output
41	NCLR	RESET INPUT
42	D7	
43	D6	Data exchange with microcomputer
44	D5	

■ Trouble-shooting

Symptom	Possible cause				
Nothing operates even when power is turned "ON".	No.1 pin of IC5 (Reset IC) is left at "L".				
	X1 (Oscillator) is open.				
When signal is transmitted in NORM mode, "LEARNED"	C12 /100 F human and its A				
indicator lights only for a moment and goes OFF im-	C12 (100µF bypass capacitor) is open,				
mediately.	R11, R12 is shorted.				
	D4, D5 (Infrared LED) is open.				
Indicator lights but signal is not transmitted.	Q1, Q2, Q3 is open or shorted.				
	R11, R12 is open.				
Indicator lights when power is turned "ON" and nothing more is done.	Carbon contact point is shorted.				
	C16 (220µF) is open.				
Learned data is erased immediately when battery is removed.	D6 is open or shorted.				
	Q4 is shorted.				
Learning error occurs.	Each terminal of SRAM is shorted.				
-varining offer coodies.	Q4 is open or shorted.				
Learning transmitting code is faulty.	Q4 is open or shorted.				
	Each terminal of SRAM is shorted.				

- \bullet < power is turned ''ON'' > in above table actually means that battery is inserted.
- Where said as "that is open or shorted", it is possible that part is damaged.

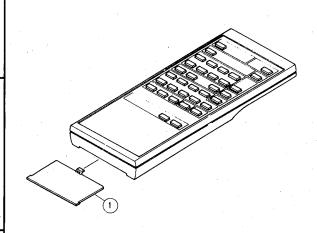
3

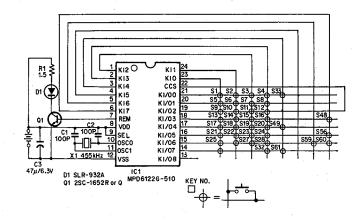
5

6

■ EXPLODED VIEW

■ SCHEMATIC DIAGRAM





	KEY			DA	TA I	COD	Ε			FUNCT	ION
	NO.	D.	Dı	D ₂	Dэ	D٨	Ds	D٠	D ₇		
	Ī	0	0	0	0	0	0	0	0	DECK	PLAY
	2	1	0	0	0	0	0	0	0	DECK	REW
	3	0	1	0	0	0	0	0	0	DECK	FF
1	4	1	Г	0	0	0	0	0	0	DECK	STOP
	5	0	0	Τ	0	0	0	0	0	DECK	REC PAUSE
ı	6	ı	0	. 1	0	0	0	0	0	DECK	REC MUTE
İ	7	0	T	ı	0	0	0	0	0	DECK	DECK A/B
1	8	1	Т	T	0	0	0	0	0	DECK	DIR.A
1	9	0	0	0	1	0	0	0	0	CD	PLAY
	10	ı	0	0	-	0	0	0	0	CD	PAUSE/STOP
ı	11	0	I	0	1	0	0	0	0	CD	SKIP >>
	12	- 1	T	0	_	0	0	0	0	CD	SKIP MM
	13	0	0	1	1	0	0	0	0	CD	SEARCH ⋈
	14	1	0	1	+	0	0	0	0	CD	SEARCH ⋈<
	15	0	ī	1	_	0	0	0	0	PHONO	PLAY/CUT
	16	ı	1	1	_	0	0	0	0	AMP	TAPE 2
	17	0	0	0	0	_	0	0	0	TUNER	PRESET UP
1	18	_	0	0	0	-	0	0	0	TUNER	PRESET DOWN

KEY			DA	ΤA	COD	E			FUNCTION			
NO.	Do	Dı	D₂	Dз	D.	D ₅	D۵	D 7				
19	0	Т	0	0	Τ	0	0	0	TUNER	P1-8/P9-16		
21	0	0	_	0	_	0	0	0	AMP	РНОНО		
22	- 1	0	1	0	-	0	0	0.	AMP	CD		
23	0	_	Π	0	Ι	0	0	0	AMP	TUNER		
24		_	1	0	-	0	0	0	AMP	LD		
25	0	0	0	Т	T	0	0	0	AMP	TAPE I		
27	0	-	0	1	1	0	0	0	VOL.	UP		
28	Ī	-	0	1	1	0	0	0.	VOL.	DOWN		
32	I	1	1	1	1	0	0	0	POWER	ON/OFF		
33	0	0	0	0	0	0	1	0	DECK	DIR.B		
48	1	1	1	1	0.	0	1	0	CD	DISC No. UP		
49	0	0	0	0	ı	0	ı	0	CD	DISC No. DOWN		
56	1	ı	1	0	1	0	1	0	SLEEP			
59	0	T	0.	1	1	0	. 1	0	EQ	ON/FLAT		
60	1		0	_	Τ	0	1	0	EQ.	PRESET UP		
61	0	0	i	1	١	0	1	0	EQ	PRESET DOWN		
	Co	C,	C2	C₃	C.	Сs	C۵	C,				
	0		0	ı	1	T	ı	0	CUSTOM	CODE		

■ PARTS LIST

	Ref. Part No.			Description	n .	部品名					Remarks / Markets	Common Model		ランク		
*		VG	91	77	00	Remote Control Transmitter	-	リモ	リモコントランスミッター							
	I	СХ	60	72	00	Liḍ		電	池	ケ	_	ス			K-PM1-562-01	
				-	-	Dry Cell	AAA,R03	単	4	乾	電	池				
			:	:												
					-											
			:	:	-											
			:	-	-											

Parts List for Carbon Resistors

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	нуз53100	нғ85 3100	12Κ Ω	нуз57120	нғ857120
1.8 "	нлз53180	*	15 "	нлз57150	нғ857150
2.2 "	нуз53220	нғ853220	18 "	нлз5 7180	нғ857180
3.3 "	нлз53330	нғ853330	22 "	нуз57220	нғ857220
4.7 "	нлз53470	нғ853470	27 "	нлз57270	нғ857270
5.6 "	нуз53560	нғ853560	33 "	нлз5 7330	нғ857330
10 "	нлз54100	нғ854100	39 "	нлз57390	нғ857390
15 "	нлз54150	нғ854150	47 "	нлз57470	нғ857470
22 "	нлз54220	нғ854220	56 "	нјз57560	нғ857560
27 "	нлз54270	нғ854270	68 "	нлз57680	нғ857680
33 "	нлз54330	нға54330	82 "	нлз57820	нғ85 7820
39 "	нлз54390	нғ854390	91 "	нуз57910	нғ857910
47 "	нлз54470	нға54470	100 "	нлз58100	нгв58100
	нлз54560	нг854560	120 "	нуз58120	нгв58120
56 "		нг854680	150 "	нуз58120	нғ858150
68 "	нлэ54680			нлз58180	нгв58180
82 "	нлз54820	нғ854820	180 "		
100 "	нлз55100	нғ855100	220 "	нлз58220	HF858220
110 "	нлз55110	нғ855110	270 "	нлз58270	нғ858270
120 "	нлз55120	нғ855120	330 "	нлз58330	нғ858330
150 "	нлз55150	нғ855150	390 "	н јз 58390	нғ858390
160 "	нлз55160	*	470 "	нлз58470	нғ858470
180 "	нлз55180	нғ855180	560 "	нлз5 8560	нғ858560
220 "	нлз55220	нғ855220	680 "	нлз58680	нғ858680
270 "	нлз55270	нғ855270	820 "	нлз58820	нғ858820
330 "	нлз5 5330	нғ855330	1.0ΜΩ	нуз59100	нғ859100
390 "	нлз55390	нғ855390	1.2 "	нуз59120	*
470 "	нлз5 5470	нғ855470	1.5 "	нлз59150	нғв59150
510 "	*	нғ855510	1.8 "	нлз59180	нғ859180
560 "	нлз55560	нғ855560	2.2 "	нуз5 9220	нғ859220
680 "	нлз55680	нғ855680	3.3 "	нлз5 9330	нғ859330
820 "	нлз55820	нғ855820	3.9 "	нлз59390	*
910 "	нлз55910	нғ855910	4.7 "	нлз59470	нғ859470
1.0K Ω	нлз5 6100	нғ856100			
1.2 "	нлз5 6120	нғ856120			<u> </u>
1.5 "	нлз5 6150	нғ856150	· · · · · · · · · · · · · · · · · · ·		
1.8 "	нлз56180	нғ856180		<u> </u>	
2.0 "	низ5 6200	нғ856200	-		
2.2 "	нлз56220	нғ856220			·
2.4 "	нлз56240	нғ856240		1/4W Type	1/6W Type
2.7 "	нлз56270	нғ856270		нл35000	HF85 ((() ()
3.0 "	нлз5 6300	нғ856300	•	HJ350000	нгоэ () () ()
3.3 "	нлз5 6330	нғ856330			- Emm-
3.6 "	нлэ5 6360	нғ856360			→ 5mm →
3.9 "	нлз56390	нғ856390		-	
4.7 "	нлз5 6470	нғ856470			
5.1 "	нлз5 6510	нғ856510			1
5.6 "	нлз56560	нғ856560			
6.8 "	нлз56680	HF856680			
8.2 "	нлз56820	нғ856820			-
9.1 "	нуз56910	нғ856910	·		-
10 "	нлз5 7 1 0 0	нғ857100			<u> </u>

RX-830/AVR-75

YAMAHA