

XR-U500RDS/U700RDS

SERVICE MANUAL

AEP Model



Photo : XR-U700RDS

SPECIFICATIONS

Cassette player section

Tape track 4-track 2-channel stereo
Wow and flutter 0.08 % (WRMS)
Frequency response 30 – 20,000 Hz
Signal-to-noise ratio

(XR-U700RDS)

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, IV	67dB	73dB	61dB
TYPE I	64dB	70dB	58dB

(XR-U500RDS)

Cassette type	Dolby B NR	Dolby NR off
TYPE II, IV	67dB	61dB
TYPE I	64dB	58dB

Tuner section

FM

Tuning range 87.5 – 108.0 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz
Sensitivity 8 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz 0.5% (stereo), 0.3% (mono)
Separation 35 dB
Frequency response 30 – 15,000 Hz
Capture ratio 2dB

MW/LW (SW, for the German model)

Tuning range MW: 531 – 1,602 kHz
LW: 153 – 281 kHz
SW: 5,950 – 6,205 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.71 MHz/450 kHz
Sensitivity MW: 30 µV
LW: 50 µV
SW: 50 µV

Power amplifier section

Outputs Speaker outputs
(sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 25W × 4 (at 4 ohms)
(XR-U700RDS)
20W × 4 (at 4 ohms)
(XR-U500RDS)

Model Name Using Similar Mechanism	NEW	
Tape Transport	XR-U500RDS	MG-55PC-31
Mechanism Type	XR-U700RDS	MG-55PB-31

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 186 × 57 × 170 mm (w/h/d) not incl. projecting parts and controls
Mounting dimension	Approx. 182 × 53 × 153 mm (w/h/d) not incl. projecting parts and controls
Mass	Approx. 1.3 kg
Supplied accessories	Wireless remote commander RM-X36 (1) (XR-U500RDS: AEP model, XR-U700RDS) Mounting hardware (1 set) Power connecting cord (1) Front panel case (1)
Optional accessories	UNILINK cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m)
Optional equipment	CD changer CDX-U606, CDX-U404, CDX-U303, etc. Source selector XA-U20, XA-U40 Digital pre-amplifier XDP-U50D (XR-U700RDS)

Design and specifications subject to change without notice.

FM/MW/LW(SW) CASSETTE CAR STEREO
SONY®



使用時は添付資料も参照のこと
Refer to the additional documents.

Features

General

- **Built-in power amplifier** (max. output: 4 ch x 25W (U700RDS), 20W (U500RDS)) enables you to enjoy a 4-speaker system.
- Supplied with the **wireless remote commander** (XR-U500RDS: AEP model, XR-U700RDS).
- **Detachable-front panel** enables you to take the front panel away with you when you leave your car. (page 13)
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.
- Switchable **two color illumination (amber and green)**. (page 9)
- Provided with a **digital 24-hour clock**. (page 14)
- Line outputs for connecting an optional power amplifier.
- **Telephone-mute function** for decreasing the volume automatically with a telephone call.

Tuner section

- Up to 40 stations can be preset: 20 stations on FM and 10 stations each on MW and LW (SW, for the German model).
- **BTM (Best Tuning Memory) function** automatically searches and stores the stations with the strongest signals on the preset number buttons in order of frequency. (page 28)
- The information services of **FM RDS station** can be received. (page 32)
- Compatible with the **RDS features** such as **EON (Enhanced Other Networks)**, **AF (Alternative Frequency)**, **TA (Traffic Announcement)** and **CT (Clock Time) function**. (page 33)

Cassette player section

- **Dolby B and C NR*** system reduces hiss noise during tape playback. (page 7) (XR-U700RDS)
- **Dolby B NR*** system reduces hiss noise during tape playback (XR-U500RDS).
- **Intro scan function** for playing the first 10 seconds of each track. (page 15)
- **Repeat play function** for playing back a currently playing track repeatedly. (page 15)
- **Blank skip function** for automatically skipping blank spaces during tape playback. (page 7)
- **ATA (Automatic Tuner Activation)** for automatically turning on the tuner while fast-forwarding or rewinding a tape. (page 7)

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

CD changer control section (when the optional Sony CD changers are connected)

- **Several Sony CD changers (not supplied) can be connected and controlled** by the use of the Sony source selector(s) (not supplied).
- **Custom file function** for displaying the title of each disc and setting the PLAY/SKIP mode on each track. (page 20)
- **Shuffle play function** for playing tracks in random order. (page 17)
- **Intro scan function** for playing the first 10 seconds of each track. (page 19)
- **Repeat play function** for playing a currently playing track repeatedly. (page 18)

DSP control section (when the optional digital signal processor XDP-U50D is connected) (XR-U700RDS)

- **Surround menu** enables you to select different soundfields inside your car.
- **DSP custom file function** enables the discs to be played in the customized DSP modes. (page 46)
- **LSM function** enables the programs to be played with the preset surround menu. (page 48)

MODEL IDENTIFICATION

—Model Number Label—

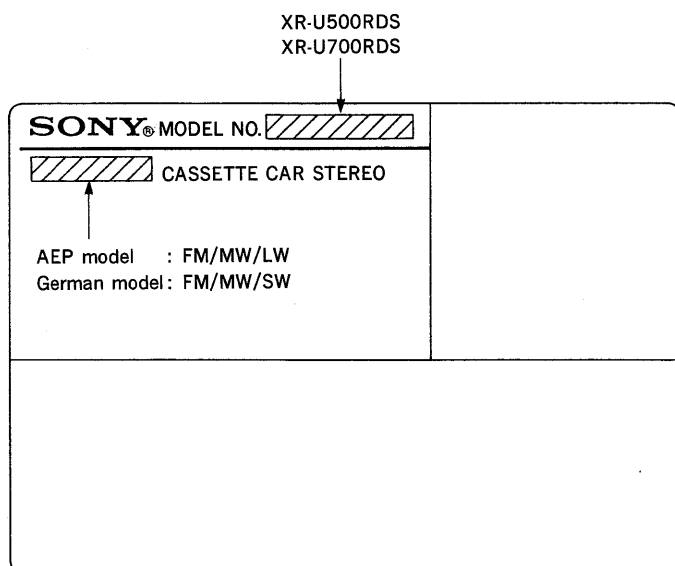


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SECTION 4 ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for two seconds.
5. Then the display indicates five patterns and stops, the test mode is set.

<Release the Test mode>

1. Push the "OFF" button.

See the adjustment location from on page 28 for the adjustment.

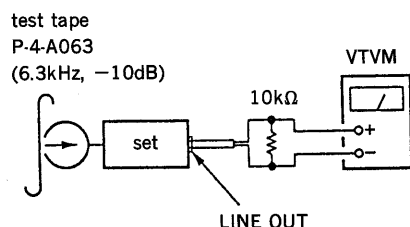
DECK SECTION

0dB=0.775V

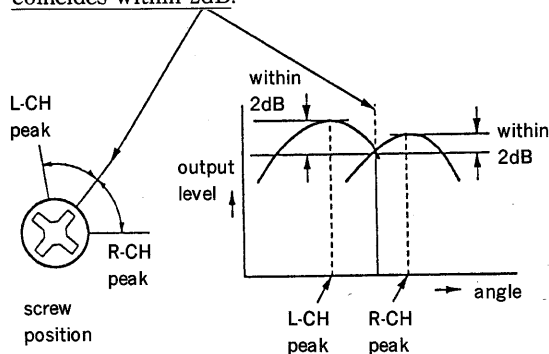
PB Head Azimuth Adjustment

Procedure :

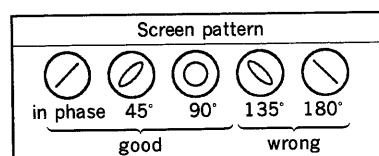
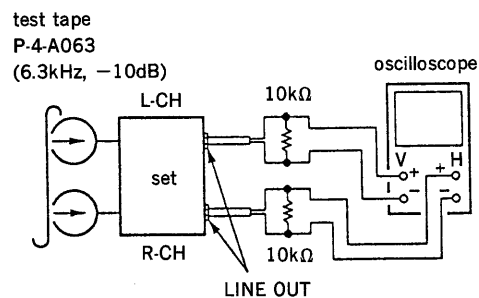
1. Put the set into the FWD PB mode.



2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.

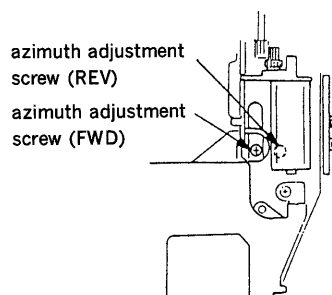


3. Check the phase in the PB mode.



4. Repeat the above adjustment for the REV PB mode.

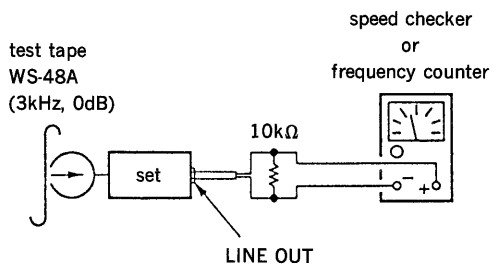
Adjustment Location : PB head



Capstan Motor Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.



Specification : Constant speed

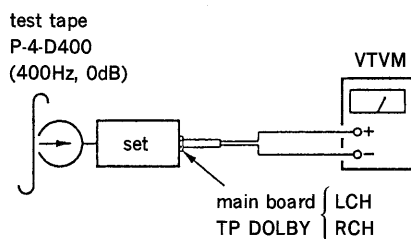
Speed checker	Frequency counter
-1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location : capstan motor volume

DOLBY Level Adjustment

Setting :

- (Dolby NR) button : OFF
 SEL (volume) button : Maximum
 SEL (balance) button : Center
 SEL (bass) button : Center
 SEL (treble) button : Center



Procedure :

1. Put the set into the FWD PB mode.
2. Adjust RV301 (L-CH) and RV401 (R-CH) so that VTVM reading is -4.7 ± 1.0 dB (0.45 to 0.51V).

Adjustment Location : equalizer board

TUNER SECTION

OdB=1 μ V

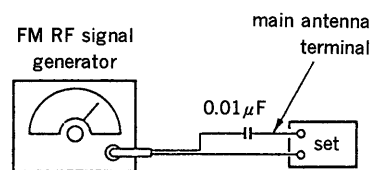
Cautions during repair

When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting :

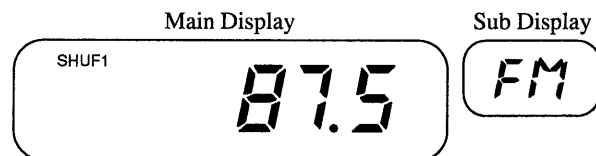
TUNER button : FM



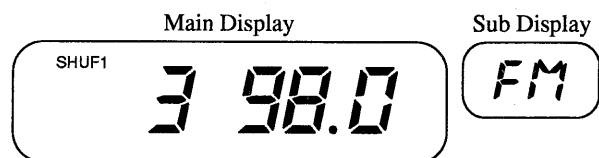
Carrier frequency : 98.0MHz
 Output level : 22dB (12.6 μ V)
 Mode : mono
 Modulation : no modulation

Procedure :

1. Set to the test mode. (See page 24.)
2. Push the **TUNER** button and set to FM.

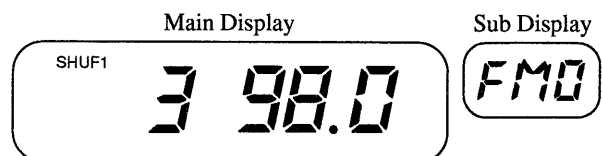


3. Push the preset **3** button.



4. Push the **SEEK/AMS+▶▶** button.
5. Adjust with the volume RV3 on TU1 so that the "FM" indication turns to "FM0" indication on the sub display window.

But, in case of already indicated "FM0", turn the RV3 so that put out light "0" indication and adjustment.



Specification : Stop sensitivity : 22dB $\pm$ 3dB

Note) "0" indication of sub display was align voltage of TP (SD).

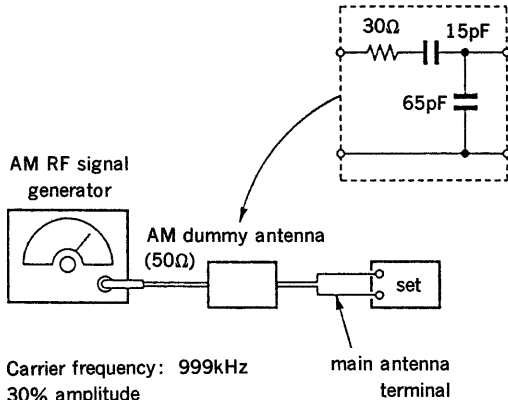
TP (SD) voltage 0V $\rightarrow$ "0" light off

TP (SD) voltage 5V $\rightarrow$ "0" light on

MW Auto Scan/Stop Level Adjustment

Setting :

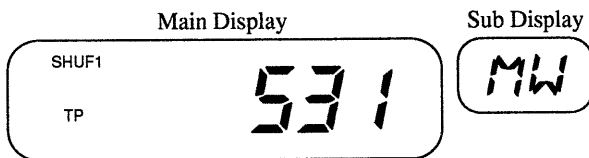
TUNER button : MW



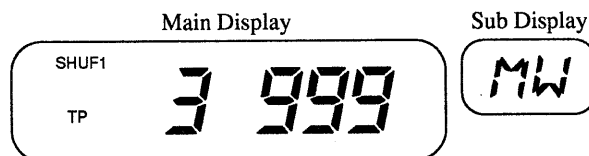
Carrier frequency: 999kHz
30% amplitude
modulation by
400Hz signal
Output level : 33dB (44.7μV)

Procedure :

1. Set to the test mode. (See page 24.)
2. Push the **TUNER** button and set to MW.

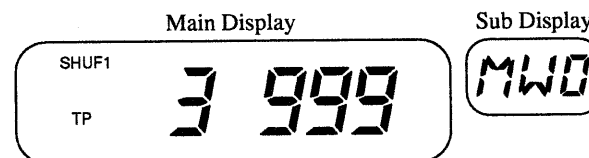


3. Push the preset **3** button.



4. Adjust with the volume RV1 on TU1 so that the "MW" indication turns to "MW0" indication on the sub display window.

But, in case of already indicated "MW0", turn the RV1 so that put out light "0" indication and adjustment.



Specification : Stop sensitivity : 33dB±3dB

Note) "0" indication of sub display was align voltage of TP (SD).

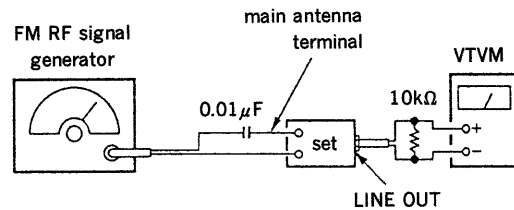
TP (SD) voltage 0V → "0" light off

TP (SD) voltage 5V → "0" light on

High Cut Control Effect Adjustment

Setting :

TUNER button : FM



Carrier frequency: 98.0MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure :

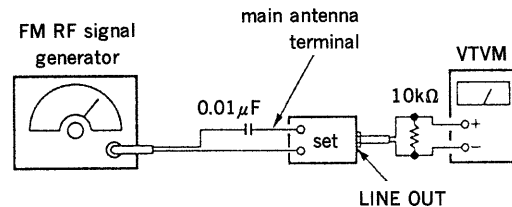
1. Tune the 98.0MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV2 on TU1 so that the output level is (A)−6dB then signal generator input set to 20dB.

Adjustment Location : main board (TU1)

FM Noise Focus Adjustment

Setting :

TUNER button : FM



Carrier frequency: 98.0MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 10kHz, 75kHz deviation

Procedure :

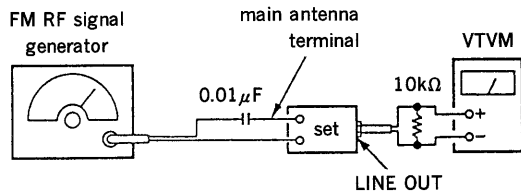
1. Tune the 98.0MHz.
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV5 on TU1 so that the output level is (B)−30dB then signal generator input set to 20dB.

Adjustment Location : main board (TU1)

FM Stereo Separation (60dB) Adjustment

Setting :

TUNER button : FM



Carrier frequency: 98.0MHz
 Output level : 70dB (3.2mV)
 Mode : stereo
 Modulation : main: 1kHz, 33.75kHz deviation (45%)
 sub: 1kHz, 33.75kHz deviation (45%)
 19kHz pilot: 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 for minimum

L-CH Stereo separation: Ⓐ - Ⓑ

R-CH Stereo separation: Ⓒ - Ⓓ

The separations of both channels should be equal.

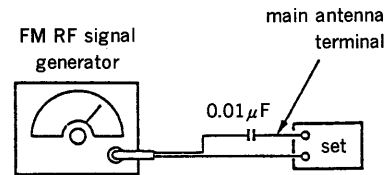
Specification : Separation more than 30dB

Adjustment Location : main board (TU1)

FM Signal Meter Adjustment

Setting :

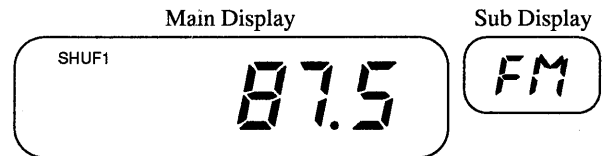
TUNER button : FM



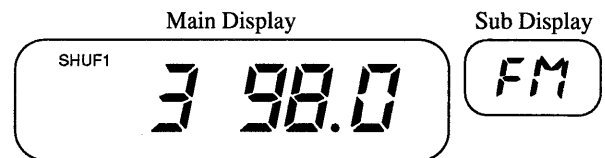
Carrier frequency: 98.0MHz
 Output level : 33dB (44.7μV)
 Mode : mono
 Modulation : no modulation

Procedure :

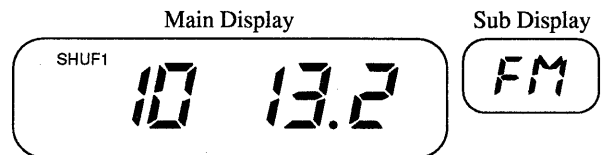
- Set to the test mode. (See page 24.)
- Push the **TUNER** button and set to FM.



- Push the preset **[3]** button.



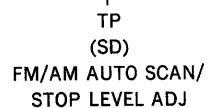
- Push the **[10]** button.
- Adjust RV10 so that the main display indication is "13.2".



Specification : Main display indication: 13.0 to 13.4

Diagram illustrating the internal chassis components and adjustment points:

- CAPSTAN MOTOR TAPE SPEED ADJ
- RV10 FM SIGNAL METER ADJ
- RV1 AM AUTO SCAN/STOP LEVEL ADJ
- RV2 HIGH CUT CONTROL EFFECT ADJ
- RV3 FM AUTO SCAN/STOP LEVEL ADJ
- RV4 FM STEREO SEPARATION ADJ
- RV5 FM NOISE FOCUS ADJ
- DOLBY LEVEL ADJ (RV301 (L-CH), RV401 (R-CH))



SECTION 5 DIAGRAMS

5-1. PIN FUNCTIONS

• IC501 μ PD75518GF-131-3B9

Pin No.	Signal	Pin Name	I/O	Pin Function
1	KEY-IN0	KI0	I	KEY input
2	P-ON 5V (Ref)	AVDD	—	A/D reference voltage of KEY input.
3, 4	VDD	VDD	—	B/U 5V power
5	KEY-ACTIVE	KEY-ACT	I	ON for A/D port. H : Possible the KEY input.
6	P-ON	P-ON	O	When the POWER ON to output the H. To ON for AUDIO and AMP-REM.
7	ILL-ON	ILL-ON	O	When the ACC ON to output the H. To ON for illumination and LCD.
8	COLOR	COLOR	O	Select the illumination color. H : Green, L : Yellow
9	MUTE	MUTE	O	MUTING output. MUTE ON : H output
10	AUX-MUTE	AUX-MUTE	O	Not use
11	DOLBY OFF/ON	DOLBY-OFF/ON	O	ON/OFF signal output of DOLBY NR. ON : H, OFF : L
12	DOLBY $\bar{B}/C$	DOLBY- $\bar{B}/C$	O	Select signal output of DOLBY NR. (XR-U700RDS) Not use. Connect to +5V. (XR-U500RDS)
13	SUB-CLK	SUB. VOL-CLK	O	Not use
14	SUB-DATA	SUB. VOL-DATA	O	
15	SUB-CE	SUB. VOL-CE	O	
16	LCD-INH	LCD-INH	O	Control at LCD DRIVER IC701.
17	—	NC	—	GND
18	LCD-DATA	LCD-DATA	O	Control at LCD DRIVER IC701.
19	LCD-CLK	LCD-CLK	O	
20	LCD-CD	LCD-CD	O	
21	VOL-CE	VOL-CE	O	Control output at ELECTRONIC VOLUME IC101
22	AMP-ON	AMP-ON	O	Control output at POWER AMP IC901
23	VOL-CLK	CLK. OUT-VOL	O	Control output at ELECTRONIC VOLUME IC101
24	VOL-DATA	DATA. OUT-VOL	O	
25	TAPE MUTE	TAPE MUTE	O	When to MUTING for TAPE, output H.
26	METAL	MTL	O	METAL : H, NORMAL : L
27	LM-EJECT	EJECT	O	Control output at LOADING MOTOR. EJECT : H
28	LM-LOAD	LOAD	O	Control output at LOADING MOTOR. LOAD : H
29	POS 3	POS 3	I	TAPE POSITION detection input
30	POS 2	POS 2	I	
31	POS 1	POS 1	I	
32	POS 0	POS 0	I	
33	GND	GND	—	GND
34	REEL2	REEL 2	I	TAPE rotation detection input. Only one side input : Judge the no tape. Both no input : Judge the tape end.
35	REEL1	REEL 1	I	
36	N/R	NOR/REV	I	DIRECTION signal input of TAPE, H : Forward, L : Reverse
37	AMS IN	AMS-IN	I	AMS signal input. L : Tape sound is present, H : Tape sound is not present
38	PL-OUT	PL-OUT	O	Plunger drive control output. H : ON
39	CM-OUT	CM-OUT	O	For capstan motor output
40	SUB-VOL SELECT	SUB. VOL-SEL	O	Select for SUB-VOL function. L : SUB VOL, H : None
41	T-POL	ST-IN	—	Normally, fixed L (GND).

Pin No.	Signal	Pin Name	I/O	Pin Function
42	SYSTEM RESET	SYS-RES UNI-L	O	For UNILINK output
43	BUS ON	BUS-ON UNI-L	O	
44	CLK-OUT	CLK-OUT	O	
45	BEEP	BEEP	O	Buzzer output
46	ACC-CHECK	ACC-CHECK	I	ACC detection input
47	KEY-ACKIN	KEY-ACK	I	When the this set is sleep mode, detect to pressing key.
48	—	—	—	Not use. Connect to GND.
49	SIRCS IN	SIRCS-IN	I	Remote commander signal input
50	DATA IN	DATA-IN UNI. LINK	I	For UNILINK input/output
51	DATA OUT	DATA-OUT UNI. LINK	O	
52	CLK-IN	CLK-IN UNI-LINK	I	
53	B/U-CHECK	B/U-CHECK	I	B+ voltage detection input
54	GND	GND	—	GND
55, 56	—	XT1, XT2	—	Not use
57	GND	IC	—	GND
58	X1	X1	O	Crystal oscillator connect pin (4.19MHz)
59	X2	X2	I	
60	RESET	RESET-IN	I	Microcomputer RESET input
61	ANT ON	ANT-REM	—	Not use
62—64	—	—	—	Not use
65	—	SD-IN	—	Fix the L (GND)
66	—	TEL. MUTE	—	Telephone call detect pin. H : Mute –20dB audio signal
67	—	CAUTION-SEL	—	Fix the L (GND)
68	—	NOSE-SW	—	Nose presence detection pin
69, 70	—	MODE1, MODE2	—	Not use
71	AUDIO SEL 1	AUD. SEL. 1	—	
72	AUDIO SEL 2	AUD. SEL. 0	—	
73	A/D GND	ANALOG. GND	—	GND
74	EQ ON	EQ-ON	O	EQ control output. H : SUB and FAD control, L : No output
75	POWER SELECT	P. SEL-SW	I	P-SEL input. L : P-SEL OFF setting (to cope with cars without accessory position)
76	Joystick-IN2	JOYSTICK-IN2	I	Rotary commander input
77	Joystick-IN1	JOYSTICK-IN1	I	Rotary commander input
78	DSP	DSP	I	DSP control select input. L : Use, H : Not use
79	TV	TV	I	TV control select input. L : Use, H : Not use
80	KEY-IN1	KI1	I	KEY input

• IC502 MN1882417SNU1

Pin No.	Signal	Pin Name	I/O	Pin Function
1—6	P55—P50	RAM-A05—RAM-A00	O	S-RAM ADDRESS CONTROL output pins which connect with ADDRESS input pins of IC504 S-RAM LH5116N3.
7	VDD	VDD	I	Power input pin
8	OSC1	X1	—	Oscillator connecting pin (8MHz)
9	OSC2	X2	—	
10	VSS	GND	—	GND pin
11	XI	XTI	I	Not used (GND).
12	XO	XTO	O	Not used (OPEN).
13	EX2	EX2	—	Connected to GND.
14	$\overline{\text{RST}}$	$\overline{\text{RESET}}$	I	Reset input pin for input of $\overline{\text{RESET}}$ ANDed with SYSTEM-RESET.
15	P26	RDS-CLK	I	RDS-CLK input pin which connects with CLK-OUT of IC506 RDS decoder, TDA7330BD.
16	P25	BU-CHECK	I	Input pin to detect BACK-UP detection, used for interrupt.
17	P24	BUS-ON	I	BUS INTERFACE bus ON input pin to detect ON/OFF of the bus, used for interrupt.
21—25	P77—P70	RAM-D7—RAM-D0	I/O	S-RAM DATA BUS input/output pins which connect with DATA pins of IC504 S-RAM LH5116N3.
26	P47	RAM-RE	O	S-RAM READ ENABLE output pin which connects with $\overline{\text{OE}}$ pin of IC504 S-RAM LH5116N3.
27	P46	RAM-WE	O	S-RAM WRITE ENABLE output pin which connects with WE pin of IC504 S-RAM LH5116N3.
28	P45	TERM	—	Not used (OPEN).
29	P44	R/W	—	
30	P95	RDS-DATA	I	RDS-DATA input pin which connects with DATA output pin of IC506 RDS decoder, TDA7330BD.
31	P94	DEV-SENS	I	Not used (OPEN).
32—35	P43—P40	S3—S0	O	
36, 37	P22, P21	—	I	Not used (GND).
38	P20	PLL-DI	I	PLL DATA input pin which connects with DATA-OUT pin of IC2 PLL LC7216M.
39	P17	PLL-DO	O	PLL DATA output pin which connects with DATA-IN pin of IC2 PLL LC7216M.
40	P16	PLL-CLK	O	PLL CLK output pin which connects with CLK-IN pin of IC2 PLL LC7216M.
41	P15	PLL-CE	O	PLL CE output pin which connects with CE-IN pin of IC2 PLL LC7216M.
42	P14	REQUEST	O	BUS INTERFACE REQUEST pin which sends “H” signal for request to communicate.
43	P13	LINK-OFF	O	BUS INTERFACE INT-LINK pin which is set “H” during LINK-OFF and “L” when the bus is connected.
44	P12	SCK	I	BUS INTERFACE CLK-IN pin.
45	P11	SI	I	BUS INTERFACE DATA-IN pin.
46	P10	SO	O	BUS INTERFACE DATA-OUT pin.
47	VDD	VDD	—	Power pin
48	AVDD	AVDD	—	AD input port power pin which is shorted with pin ④7, VDD.

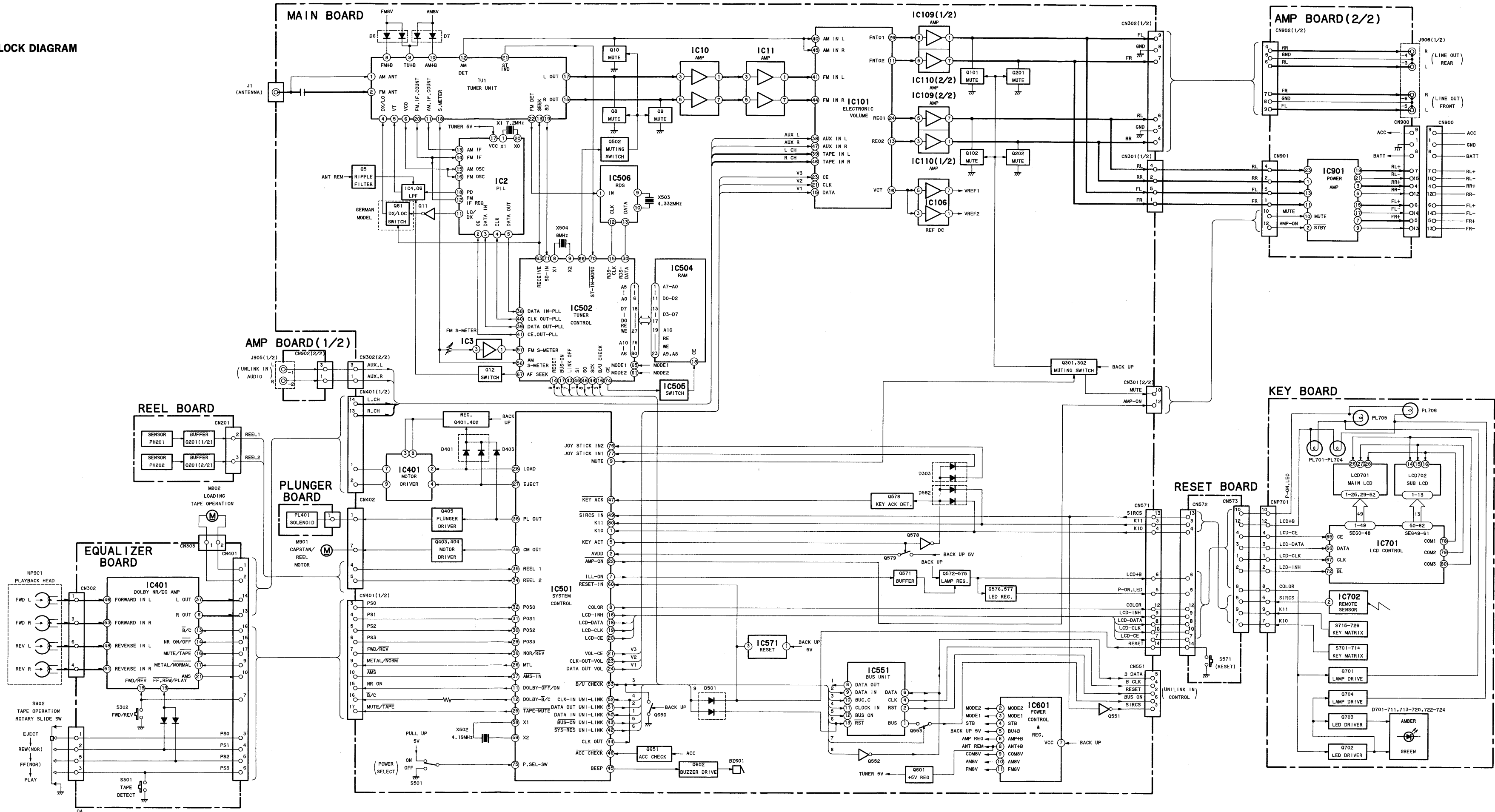
Pin No.	Signal	Pin Name	I/O	Pin Function															
49	VREF	VREF+	I	AD port reference voltage input (positive side) which is supplied from AVREF of MASTER micro computer.															
50—53	AD7—AD4	—	—	Not used (GND).															
54 55	AD3 AD2	DIST-SEL1 DIST-SEL0	I I	MODE select input used for setting of band selection, read when the port is reset. <table><tr><td>SEL0</td><td>SEL1</td><td>BAND</td></tr><tr><td>L</td><td>L</td><td>FM+MW+LW</td></tr><tr><td>L</td><td>H</td><td>FM+MW+SW</td></tr><tr><td>H</td><td>L</td><td>FM+AM</td></tr><tr><td>H</td><td>H</td><td>FM+AM</td></tr></table>	SEL0	SEL1	BAND	L	L	FM+MW+LW	L	H	FM+MW+SW	H	L	FM+AM	H	H	FM+AM
SEL0	SEL1	BAND																	
L	L	FM+MW+LW																	
L	H	FM+MW+SW																	
H	L	FM+AM																	
H	H	FM+AM																	
56	AD1	AM-VSM	I	AM (MW, SW, LW)/FM S meter voltage detection pins, used for BTM and RDS (AF: NETWORK) functions.															
57	AD0	FM-VSM	I																
58	VREF	VREF—	—	AD port reference voltage input (negative side).															
59	AVSS	AVSS	—	AD input port GND pin which is shorted with pin ⑤⑧, VREF—.															
60	VSS	GND	—	Power GND.															
61	P37	TUNER-ON	O	TUNER-ON output pin which sends “H” signal while tuner is ON.															
62	P36	DX/LO	O	Not used (OPEN).															
63	P35	RECEIVE	O	SEEK OUT output pin (RECEIVE) Also used for SEEK for AM (MW, LW, SW), STOP REQUEST (IF count output request) and AGC cut in BTM mode. In FM mode, this pin is used for SEEK, BTM and AF operation network search, EON-TA search, CX1X retrieval and PTY search and it is used to change the time constant of S meter output. It is active “L”, “H” during receive and “L” when the tuner is turned OFF. Basic Timing MUTE SEEK Pre mute N value change After mute															
64	P34	AM-ON	O	Not used (OPEN).															
65	P33	FM-ON	O	FM-ON output pin which sends “H” signal in FM mode (for both PLAYING and BIHIND).															
66	P32	TUNER-MUTE	O	Mute output pin															
67	P31	AF-SEEK	O	AF-SEEK output pin This pin is used for FM band AF operation network search, EON-TA search, CX1X retrieval, and PTY search and it is used to change the time constant of low-pass filter. It is active “H” and set “L” when the tuner is turned OFF in AM mode.															
68	P30	SRAM	O	External S-RAM control output pin which sends “H” signal in CPU operations.															
69	P67	A15	O	Not used (OPEN).															
70	P93	ST-IN-MONO	I/O	Pin used for both ST-IND display input and forced MONO output. “L” input to this pin will turn stereo display ON. It provides “L” output for forced Monaural output.															

Pin No.	Signal	Pin Name	I/O	Pin Function
71	P92	SD-IN	I	Used to determine the stop level of SEEK, AUTO-MEMORY, SCAN, etc.
72, 73	P66, P65	A14, A15	O	Not used (OPEN).
74	P64	RAM-CE	O	Connected to $\overline{\text{CE}}$ pin of IC504 S-RAM LH5116N3.
75	P63	—	—	Not used (OPEN).
76—78	P62—P60	RAM-A10—RAM-A08	O	S-RAM ADDRESS CONTROL output pins.
79, 80	P57, P56	RAM-A07—RAM-A06	O	Connected to ADDRESS pins of IC504 S-RAM LH5116N3.

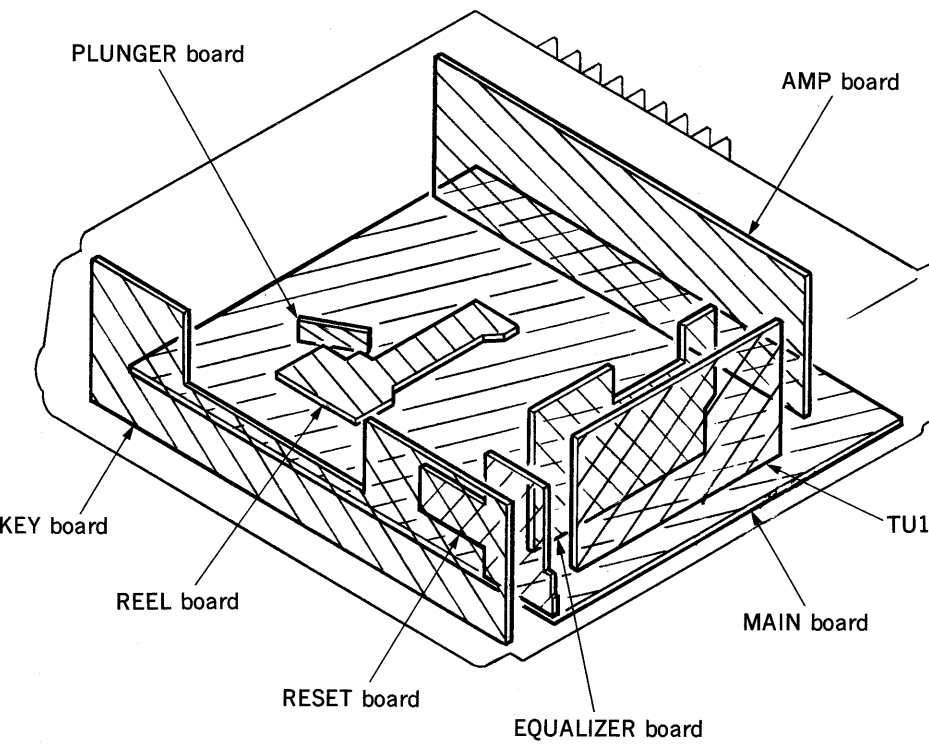
• IC2 LC7216M

Pin No.	Signal	Pin Name	I/O	Pin Function
1	XIN	XIN	I	Crystal oscillator connecting pin (7.2MHz).
2	CE	CE	I	Chip Enable input pin which connects with PLL-CE of IC502 tuner microcomputer, MN1882417.
3	DI	DATAIN	I	Data input pin which connects with PLL-DO of IC502 tuner microcomputer, MN1882417.
4	CL	CLK	I	Clock input pin which connects with PLL-CLK of IC502 tuner microcomputer, MN1882417.
5	D0	DATAOUT	O	Data output pin which connects with PLL-DI of IC502 tuner microcomputer, MN1882417.
6—10	—	—	—	Not used (OPEN).
11	OUT4	DX/ $\overline{\text{LO}}$	O	DX/ $\overline{\text{LO}}$ changeover output pin which sends “L” signal for LOCAL mode.
12	OUT5	FM-IF-REQ	O	FM IF COUNT request output pin. This pin sends “H” signal when IF count of FM band is performed. It provides “H” output only for operations that require IF count, such as SEEK and BTM. It provides “L” output in AM mode and for TUNER OFF.
13	LCTR	AM-IF $\overline{\text{MONO}}$	I	General purpose counter frequency measuring signal input pin. SC=0, SF=1, AM IF counter 15 to 500kHz.
14	HCTR	FM-IF	I	General purpose counter frequency measuring signal input pin. SC=1, FM IF count 10 to 60MHz.
15	AMIN	AM-OSC	I	AM OSC signal input pin. DV=0, 2—40MHz : SP=1, 0.5—10MHz : SP=0.
16	FMIN	FM-OSC	I	FM OSC signal input pin. DV=0, 10—130MHz.
17	VCC	VCC	—	Power pin
18	PD	PD	O	Charge pump output pin
19	VSS	VSS	—	GND pin
20	XOUT	XOUT	O	Crystal oscillator connecting pin (7.2MHz).

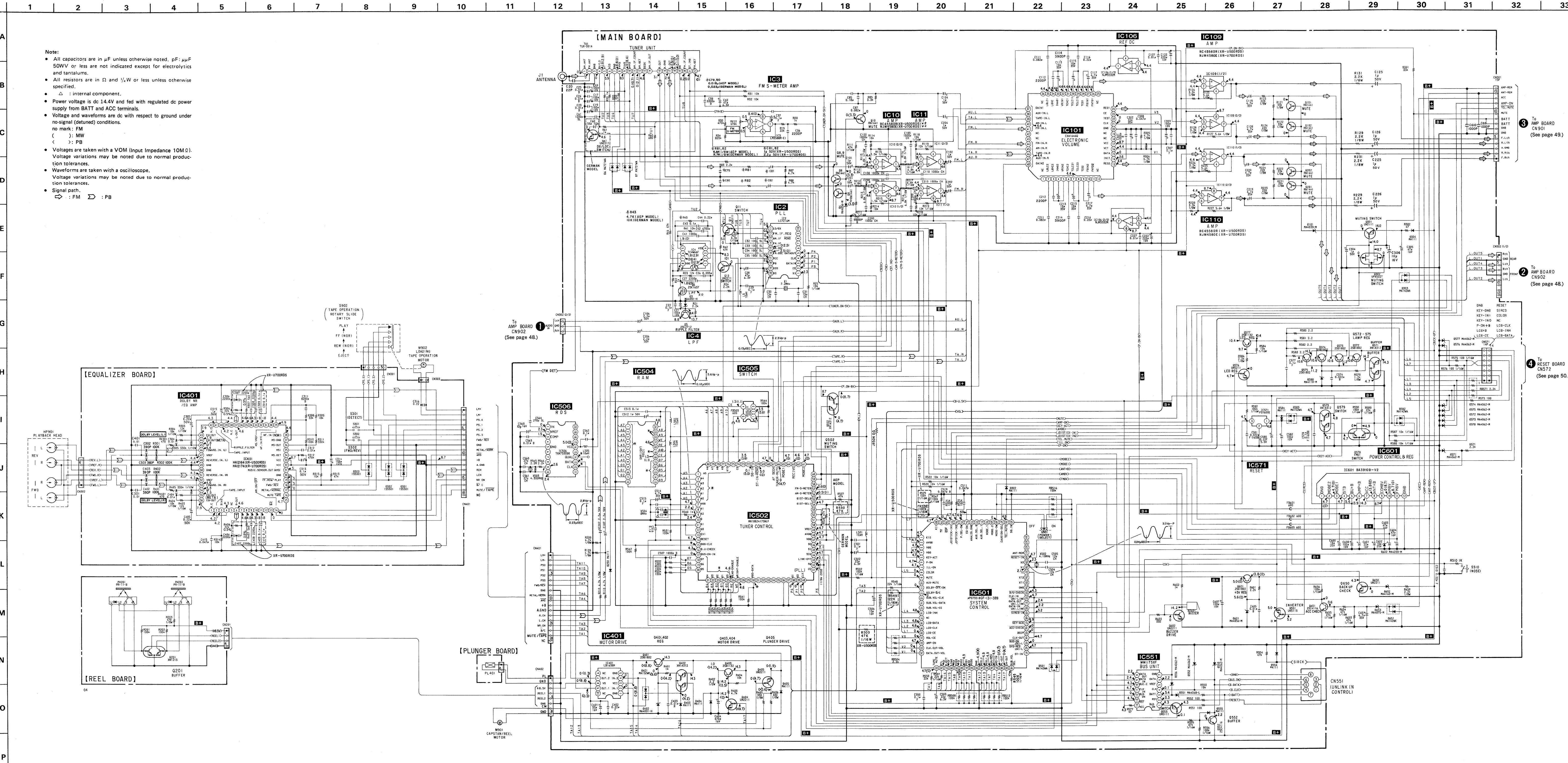
5-2. BLOCK DIAGRAM



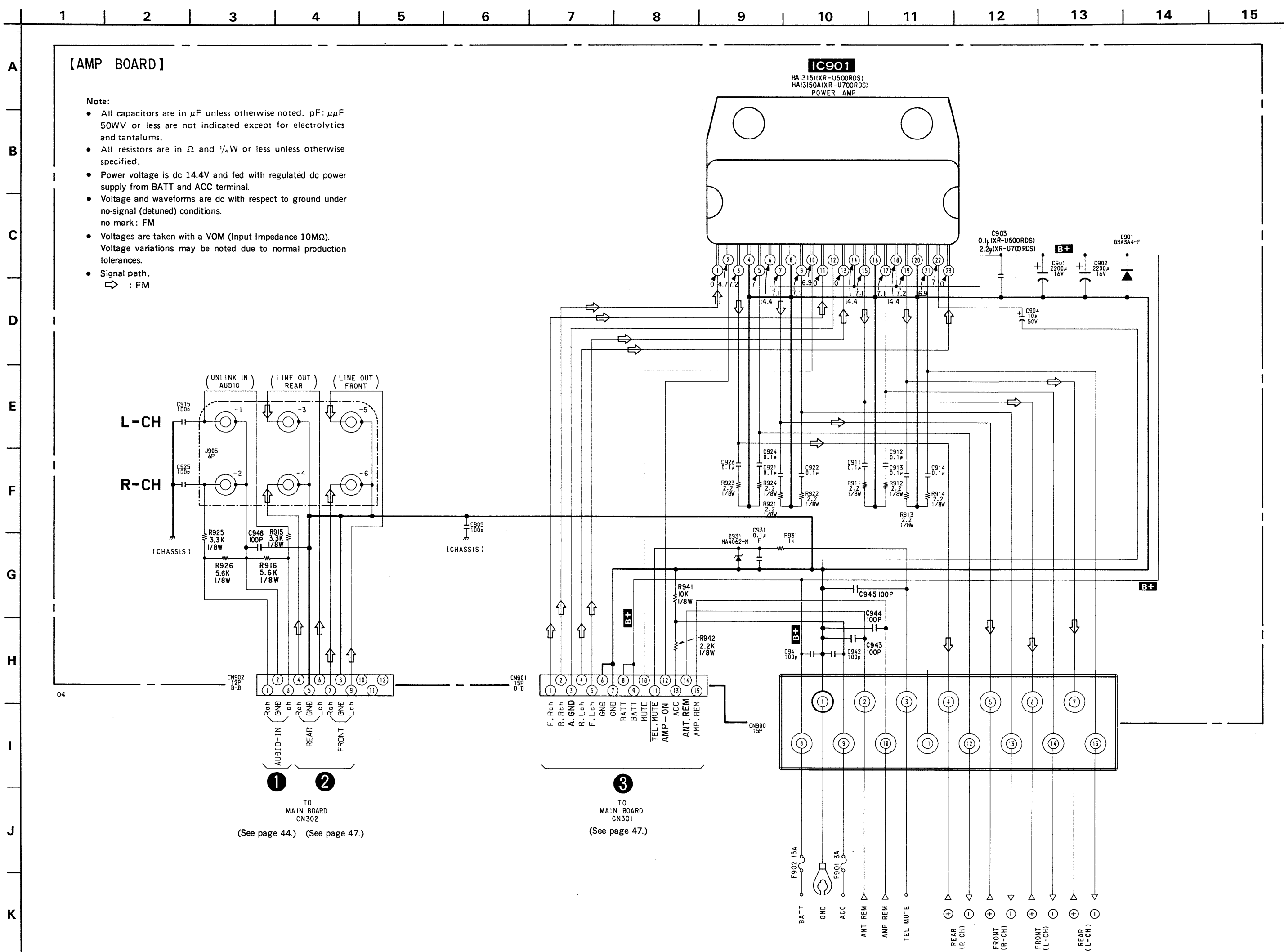
5-3. CIRCUIT BOARDS LOCATION



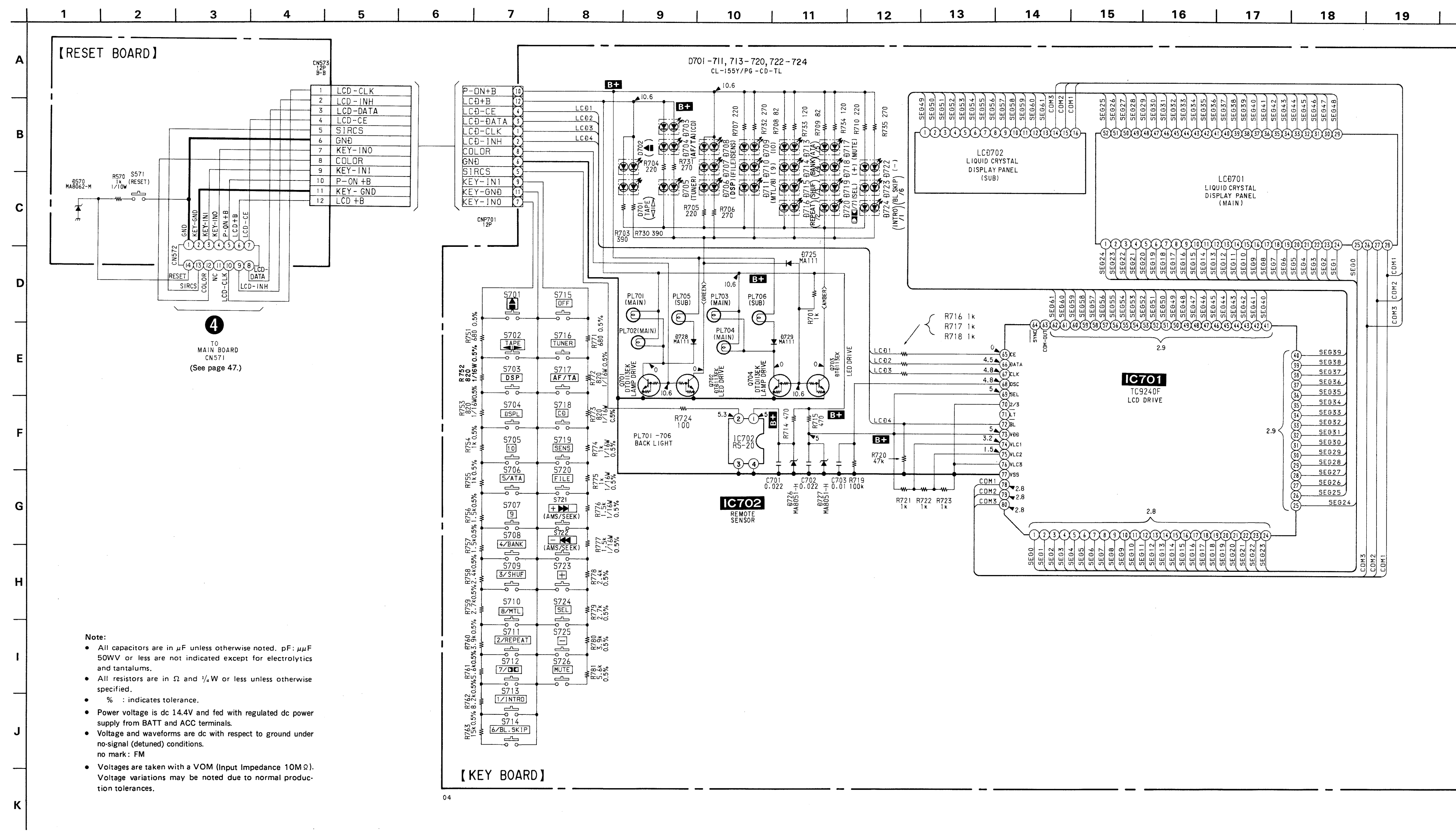
5-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 55 for IC Block Diagrams.



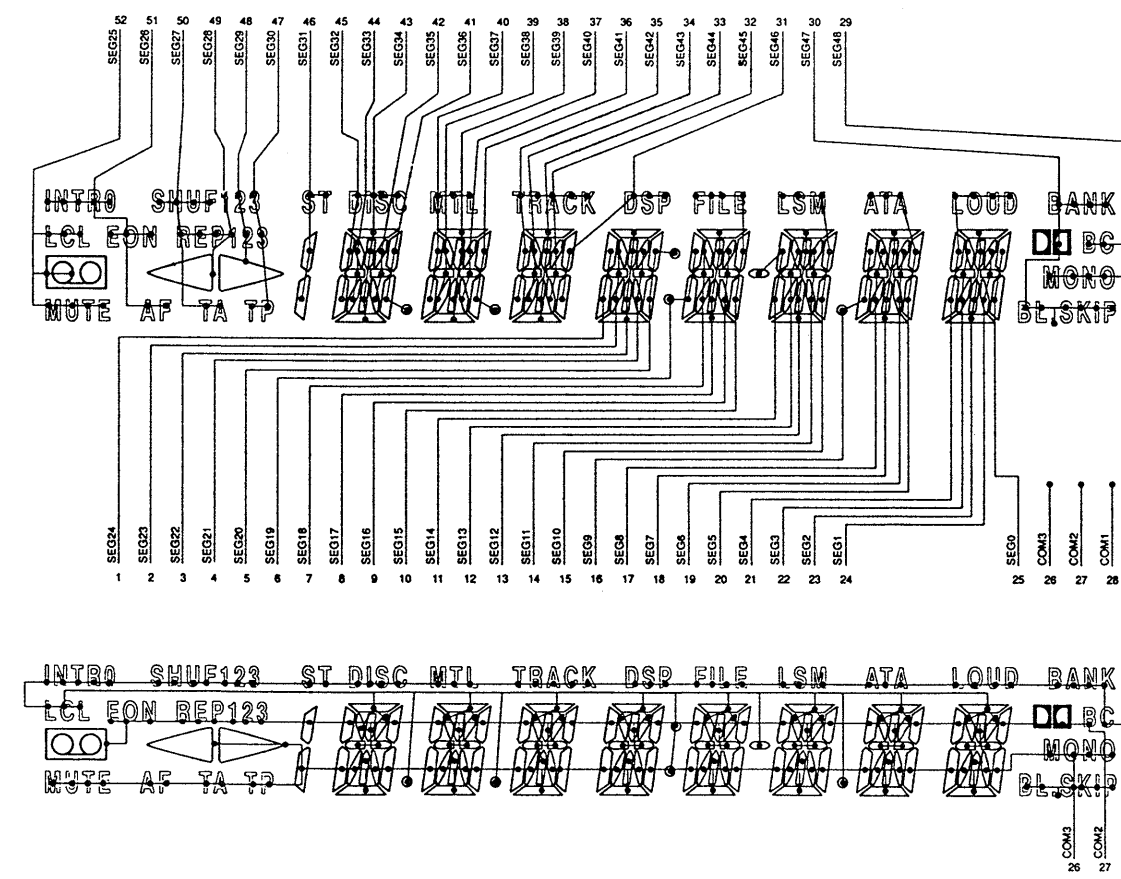
5-6. SCHEMATIC DIAGRAM —AMP SECTION—



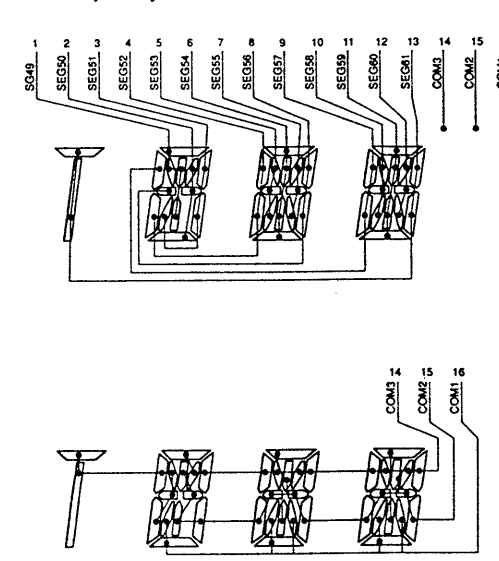
5-7. SCHEMATIC DIAGRAM —PANEL SECTION—



• LCD701 (MAIN)

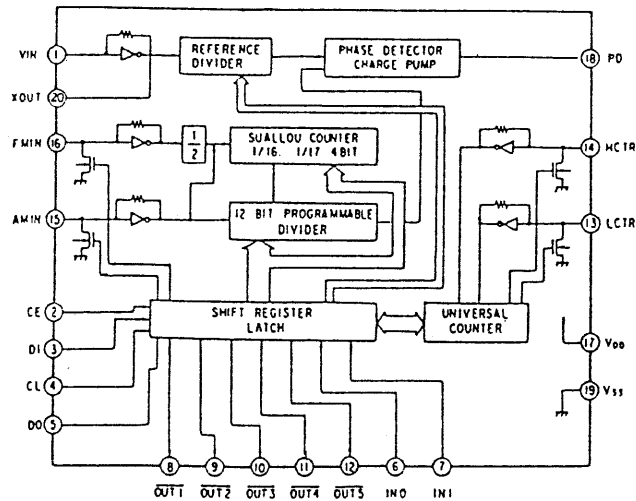


• LCD702 (SUB)

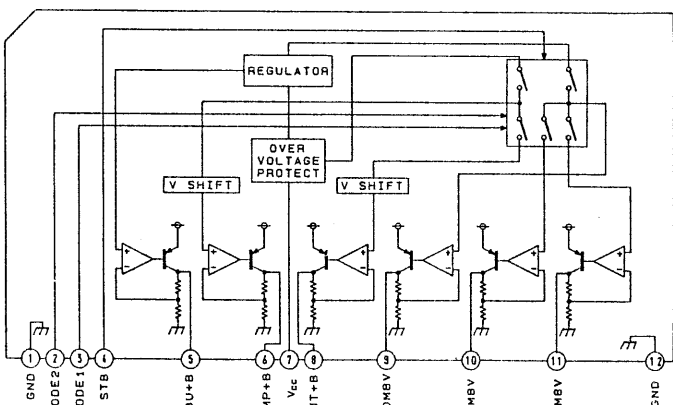


• IC Block Diagrams

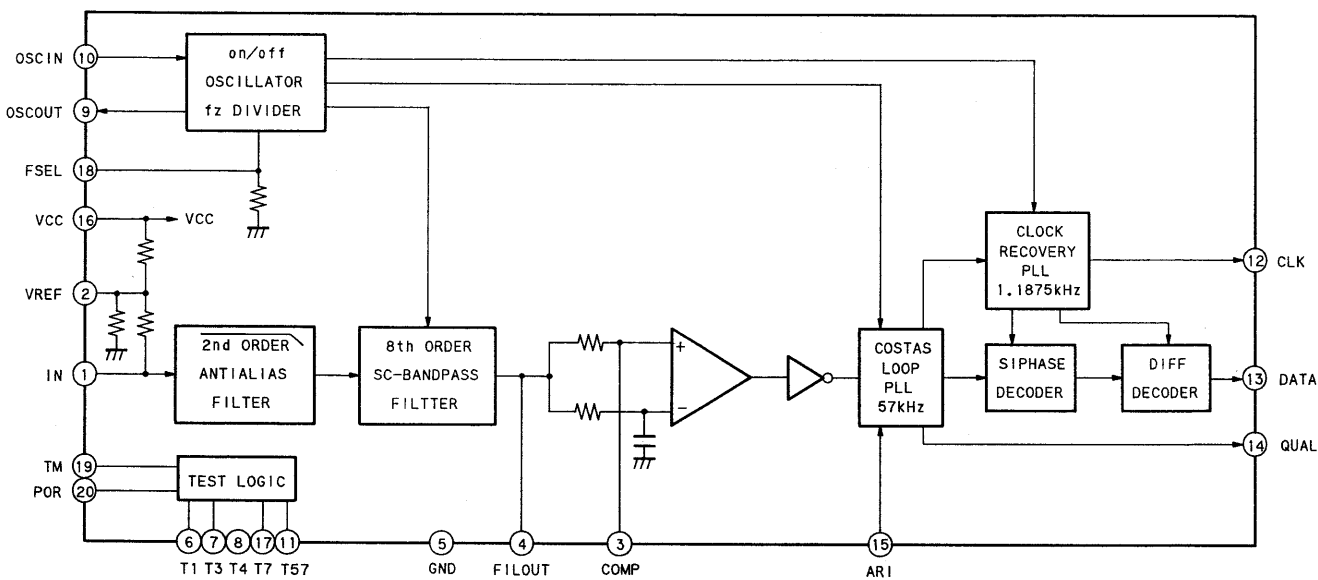
IC2 LC7216M



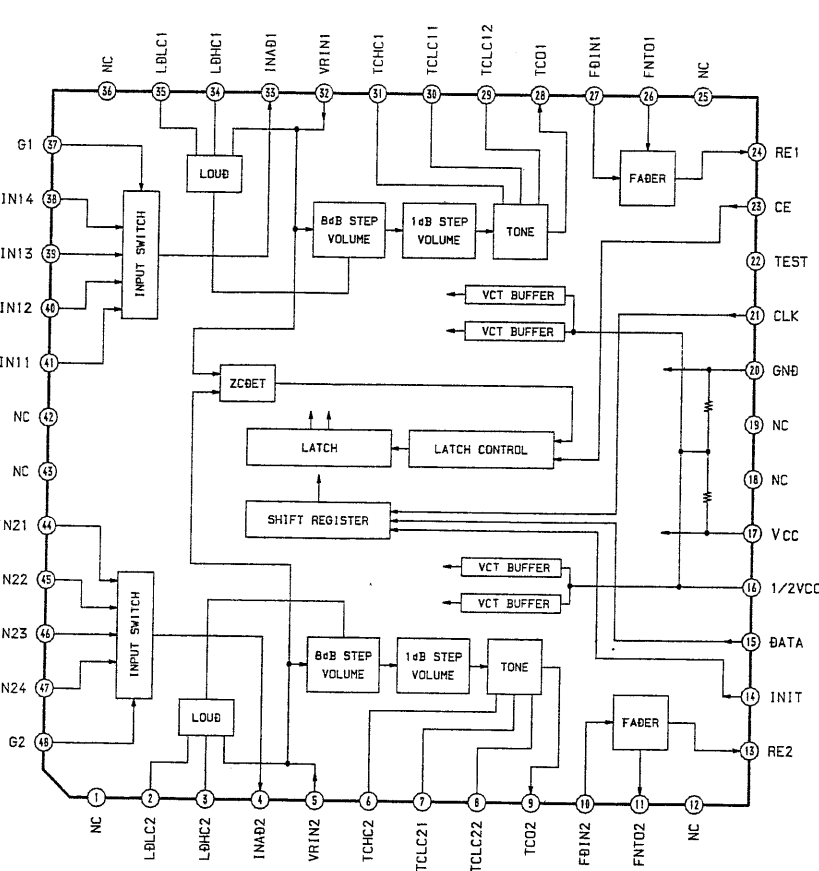
IC601 BA3910A-V2



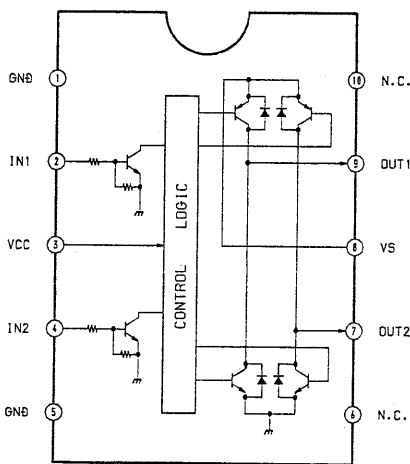
IC506 TDA7330BD



IC101 CXA1646Q

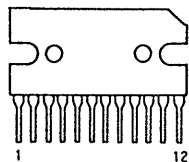


IC401 LB1638M

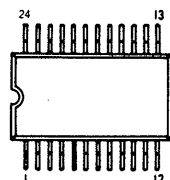


5-9. SEMICONDUCTOR LEAD LAYOUTS

BA3910B-V2

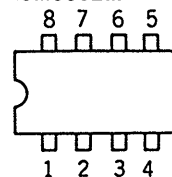


LH5116N3



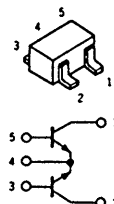
(TOP VIEW)

NJM5532M



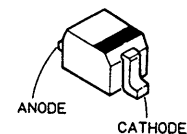
(Top view)

**FMG1
XN1213**

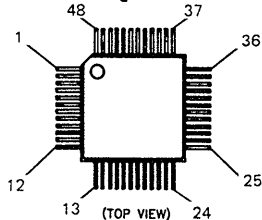


1 Tr1 : Collector 1
2 Tr2 : Collector 2
3 Tr2 : Base 2
4 Tr1, 2 : Emitter
5 Tr1 : Base 1

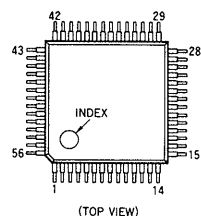
**MA111
MA8051-H
MA8062-M**



CXA1646Q

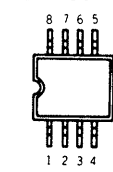


**HA12164
HA12174**



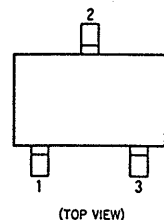
(TOP VIEW)

**LM358D
RC4558DR-A
TC4W66F**



(TOP VIEW)

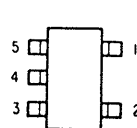
PST600EMT-T1



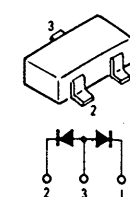
(TOP VIEW)

1: OUT
2: VSS
3: VDD

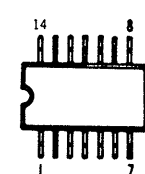
**UPA502T-T1
XN1A312-TX**



**MA142WA
MA721WA-TX
1SS181**

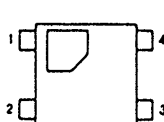


MM1175XFF

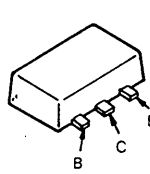


(TOP VIEW)

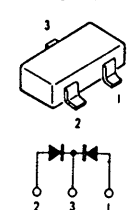
RS-30



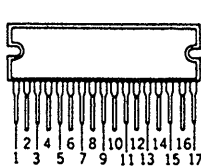
2SB1115A



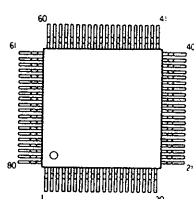
**MA141WK
MA142WK
MA152WK**



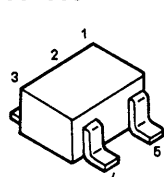
**HA13150A
HA13151**



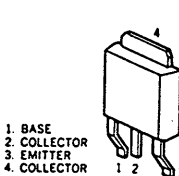
MN1852417SNU1



SC7500F

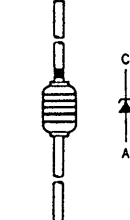


2SD1802-S

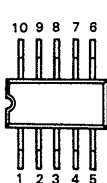


1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

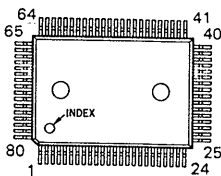
**MA4039-M (QZ)
MA4056-M (QZ)
MA4062-M (QZ)
MA4068-L (QZ)
MA4075-M (QZ)
MA4091-H (QZ)
MA4110-M (QZ)
MA4160-M (QZ)
MA4200-M (QZ)**



LB1638M

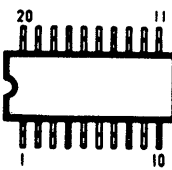


**MSM6660-01GS-V1K
μPD75518GF-131-3B9**



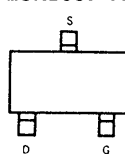
(TOP VIEW)

TDA7330BD-013TR

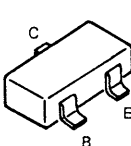


(TOP VIEW)

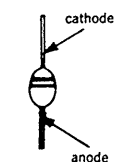
2SK1657-T1B



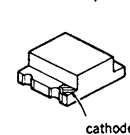
**DTD113EK
RN1441-A-TE85L
UN2111
UN2211
UN5111
UN5113
UN5211
2SC2712-YG
2SC4116-GL**



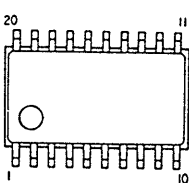
DSA3A4



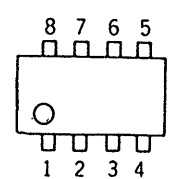
CL-155Y/PG-CD



LC7216M



NJM3404AM-T1



(Top view)

SECTION 6 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts

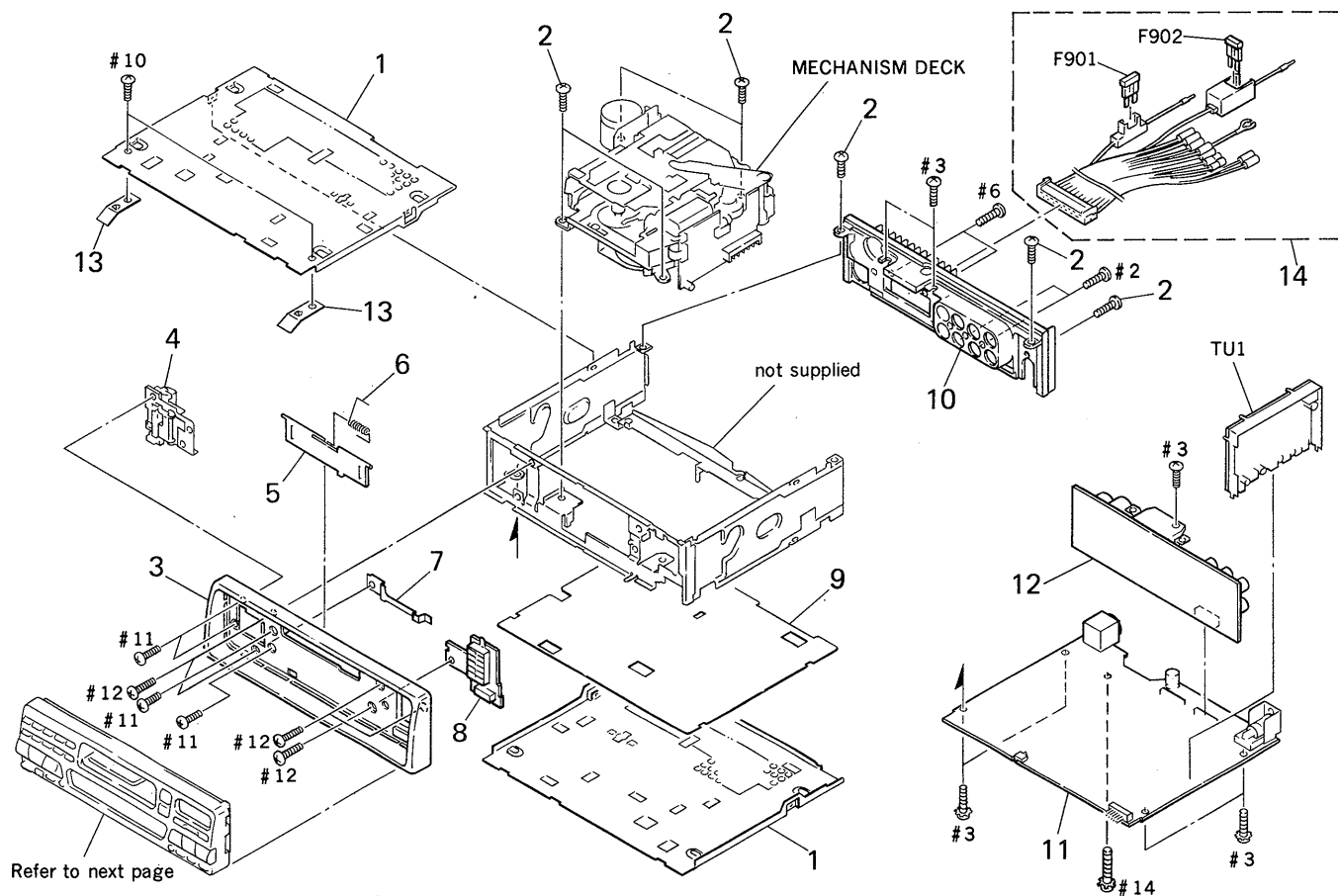
Example :

KNOB, BALANCE (WHITE)... (RED)

Parts Color Cabinet's Color

- Hardware (# mark) list is given in the last of this parts list.

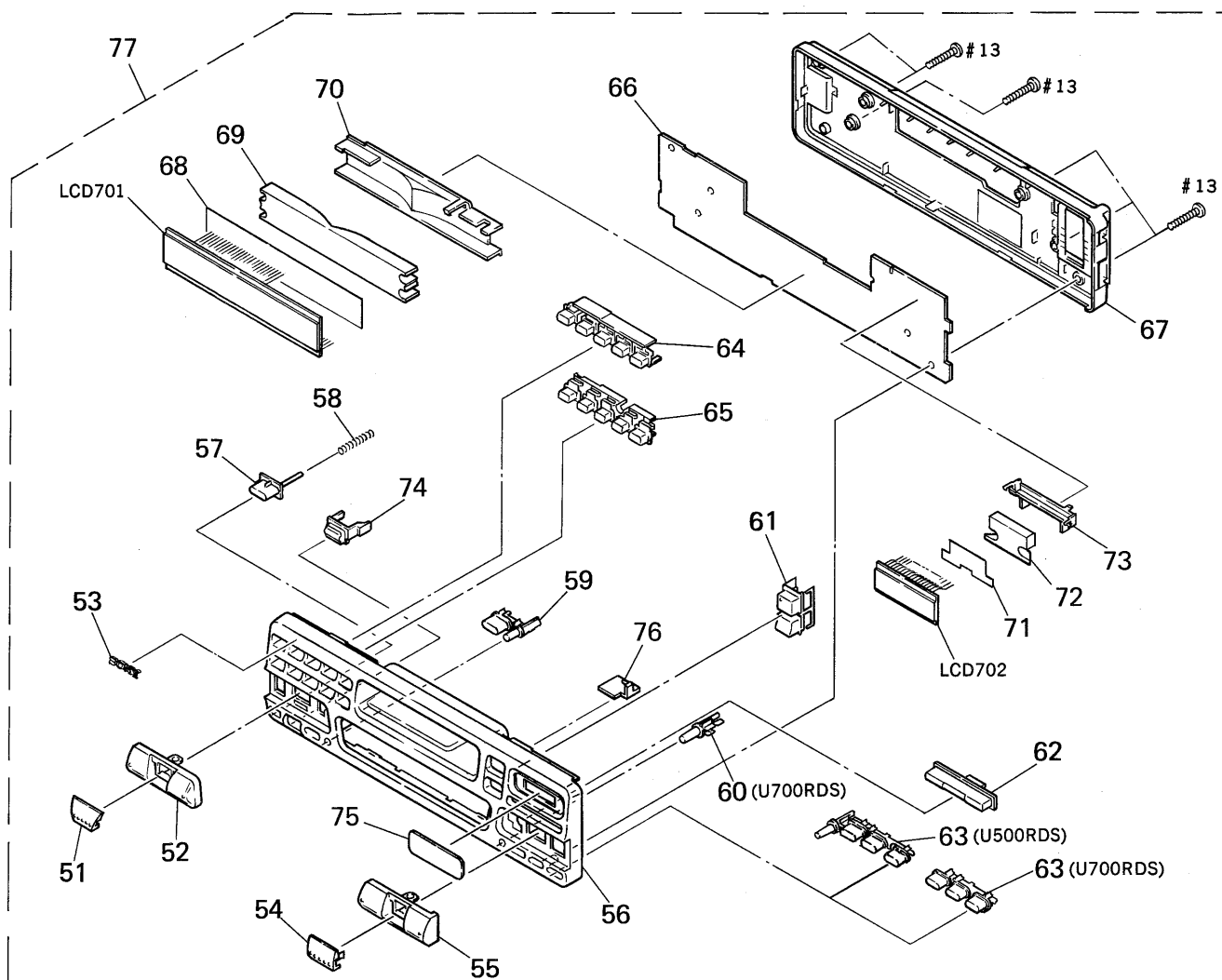
6-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 1	3-904-249-01	COVER	
2	3-905-560-01	SCREW (2. 6X6) (CU), +PTT	
3	3-904-179-01	PANEL, SUB	
4	X-3366-931-1	LOCK ASSY	
5	3-389-269-11	DOOR, CASSETTE (XR-U700RDS:AEP)	
5	3-389-269-21	DOOR, CASSETTE (XR-U700RDS:GERMAN)	
5	3-389-269-71	DOOR, CASSETTE (XR-U500RDS:AEP)	
5	3-389-269-81	DOOR, CASSETTE (XR-U500RDS:GERMAN)	
6	3-377-892-01	SPRING (C DOOR), TORSION	
7	3-904-181-01	SPRING (SW)	
* 8	1-648-609-11	RESET BOARD	
* 9	3-904-180-01	INSULATOR	

Ref. No.	Part No.	Description	Remark
* 10	3-388-866-01	HEAT SINK	
* 11	A-3295-638-A	MAIN BOARD, COMPLETE (XR-U700RDS:AEP)	
* 11	A-3295-646-A	MAIN BOARD, COMPLETE (XR-U500RDS:AEP)	
* 11	A-3295-658-A	MAIN BOARD, COMPLETE (XR-U700RDS:GERMAN)	
* 11	A-3295-659-A	MAIN BOARD, COMPLETE (XR-U500RDS:GERMAN)	
* 12	A-3295-642-A	AMP BOARD, COMPLETE (XR-U700RDS)	
* 12	A-3295-648-A	AMP BOARD, COMPLETE (XR-U500RDS)	
* 13	3-386-597-01	PLATE, LOCK	
14	1-751-263-41	CORD (WITH CONNECTOR)	
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)	
* TU1	A-3282-003-A	TUNER UNIT (TUX-001A)	

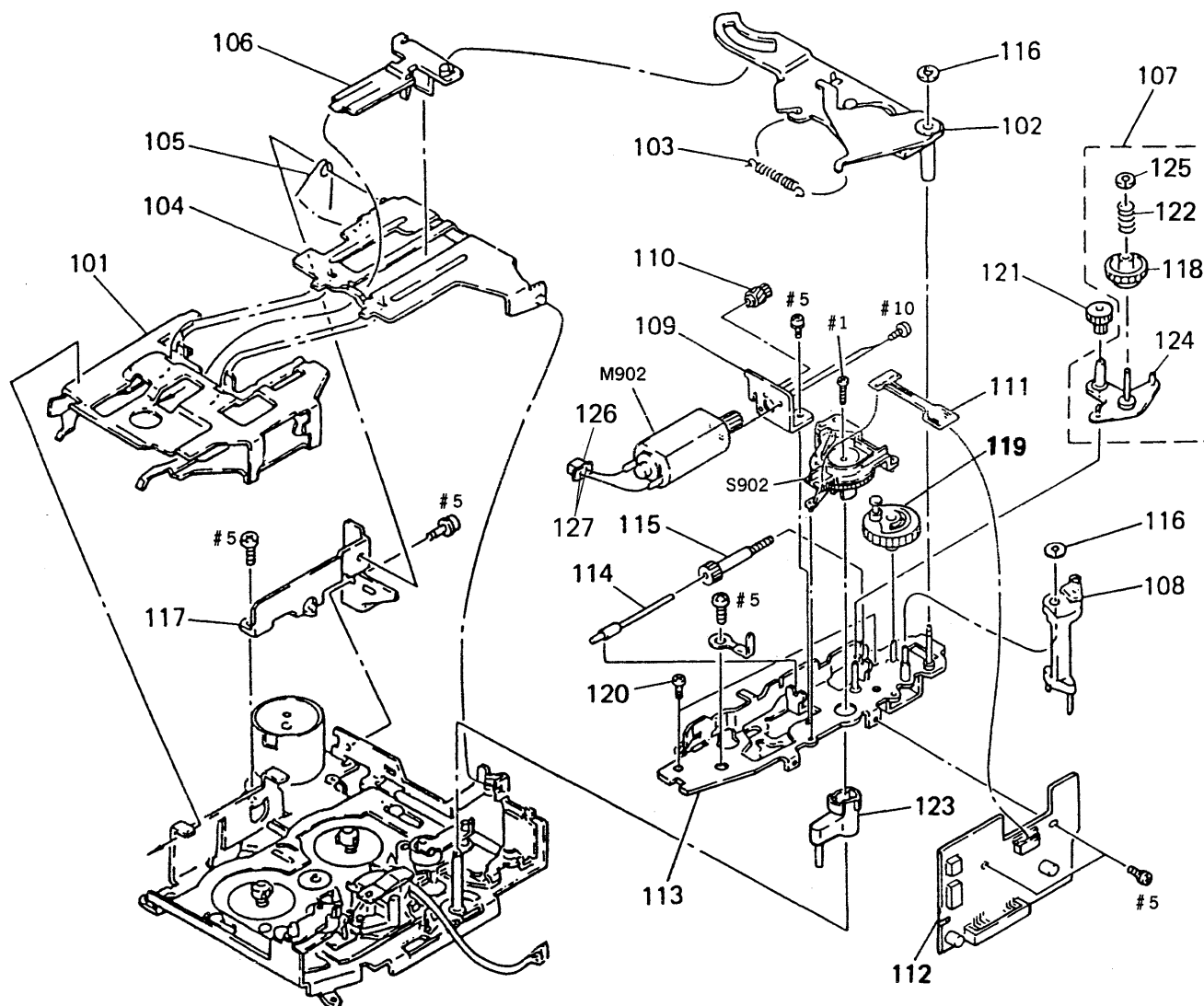
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-389-660-11	BUTTON (SELECT)	
52	3-389-668-11	BUTTON (+ -)	
53	3-904-194-01	EMBLEM (NO. 2.5), SONY	
54	3-389-664-31	BUTTON (AF/TA)	
55	3-389-666-11	BUTTON (TUNER, CD)	
56	3-904-190-11	PANEL (B), FRONT (XR-U700RDS)	
56	3-904-190-31	PANEL (B), FRONT (XR-U500RDS)	
57	3-904-245-01	BUTTON (RELEASE)	
58	3-904-193-01	SPRING (RELEASE)	
59	3-904-243-11	BUTTON (MUTE)	
60	3-904-244-01	BUTTON (DSPL) (XR-U700RDS)	
61	3-389-661-11	BUTTON (⏮, TAPE ⏮⏭)	
62	3-389-665-11	BUTTON (AMS/SEEK ⏮, + ⏭)	
63	3-389-670-01	BUTTON (DSPL, DSP, FILE, SENS) (XR-U500RDS)	
63	3-389-671-01	BUTTON (DSP, FILE, SENS) (XR-U700RDS)	
64	3-389-658-11	BUTTON (1-5)	

Ref. No.	Part No.	Description	Remark
65	3-389-662-11	BUTTON (6-10)	
* 66	A-3222-612-A	KEY BOARD, COMPLETE	
67	3-904-191-01	PANEL, FRONT BACK	
* 68	3-389-753-01	REFLECTOR (MAIN), SHEET	
* 69	3-389-673-01	PLATE (MAIN:LCD), LIGHT GUIDE	
* 70	3-389-672-01	HOLDER (MAIN:LCD)	
* 71	3-904-248-01	REFLECTOR (SUB), SHEET	
* 72	3-904-247-01	PLATE (SUB:LCD), LIGHT GUIDE	
* 73	3-904-246-01	HOLDER (SUB:LCD)	
74	3-389-669-01	FILTER (RAY CATCHER)	
75	3-389-674-02	PLATE (B), INDICATION	
76	3-904-632-01	PLATE (C DOOR), LIGHT GUIDE	
* 77	A-3252-736-A	PANEL ASSY, FRONT (XR-U700RDS)	
* 77	A-3252-739-A	PANEL ASSY, FRONT (XR-U500RDS)	
LCD701	1-810-094-11	DISPLAY PANEL, LIQUID CRYSTAL (MAIN)	
LCD702	1-810-095-11	DISPLAY PANEL, LIQUID CRYSTAL (SUB)	

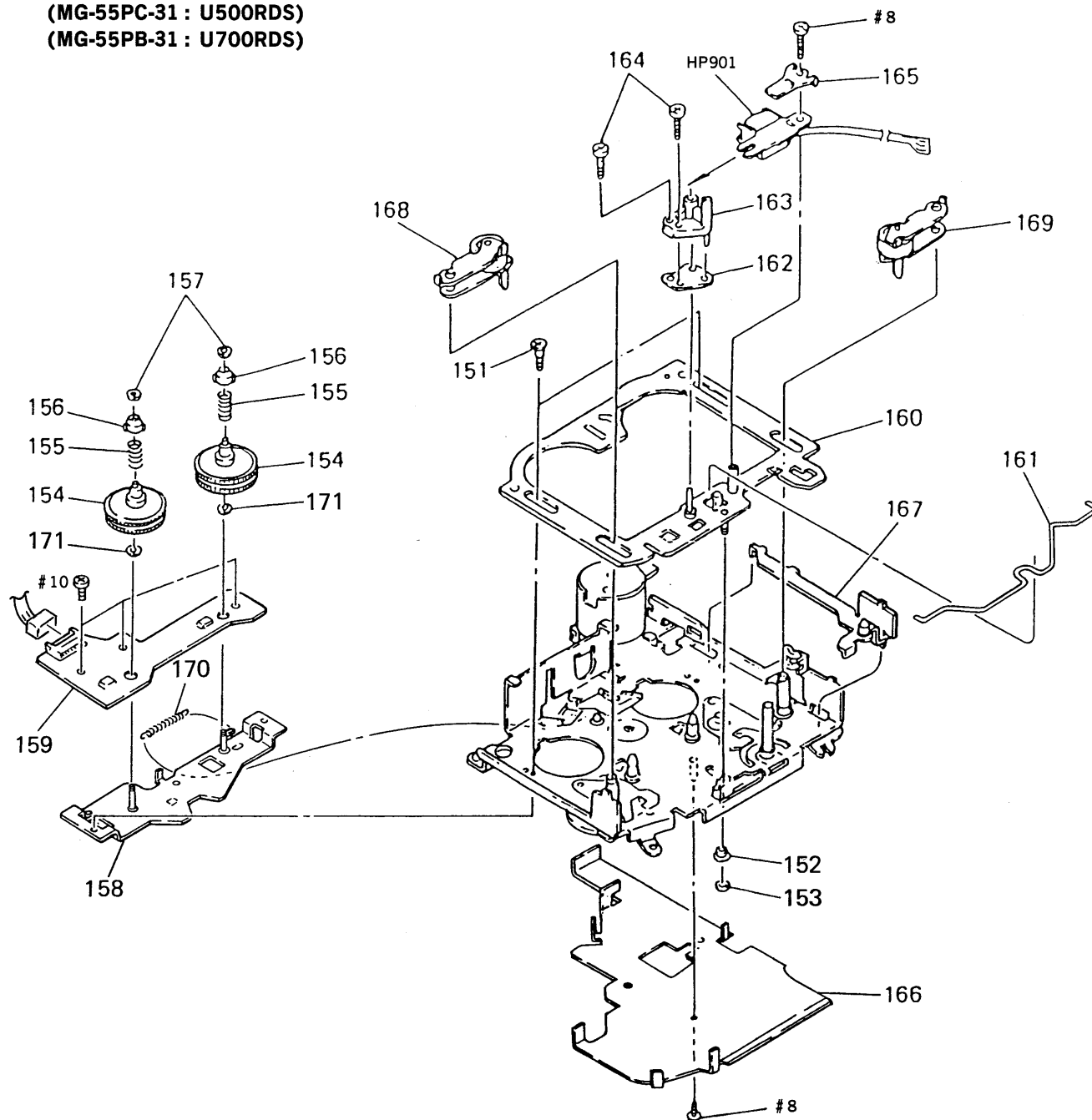
6-3. MECHANISM DECK SECTION 1
(MG-55PC-31 : U500RDS)
(MG-55PB-31 : U700RDS)



Ref. No.	Part No.	Description	Remark
* 101	3-344-103-21	HOUSING, CASSETTE	
* 102	X-3344-121-1	ARM ASSY, SUCTION	
	103	3-344-216-01	SPRING (SUCTION ARM), TENSION
* 104	X-3362-262-1	HANGER (F) ASSY, HOUSING	
	105	3-344-113-03	SPRING
* 106	3-389-166-01	CATCHER	
* 107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
* 108	3-375-458-01	ARM (M), REVERSE	
* 109	X-3344-142-2	BRACKET (F) ASSY, MOTOR	
	110	3-344-281-01	GEAR (A), DRIVING
	111	1-635-519-12	ROTARY SWITCH FLEXIBLE BOARD
* 112	A-3295-492-A	EQUALIZER BOARD, COMPLETE (XR-U700RDS)	
* 112	A-3295-493-A	EQUALIZER BOARD, COMPLETE (XR-U500RDS)	
* 113	X-3362-260-3	CHASSIS (F) ASSY, MCU	
* 114	3-344-157-01	SHAFT, DRIVING GEAR (B)	

Ref. No.	Part No.	Description	Remark
	115	3-344-156-01	GEAR (B), DRIVING
	116	3-344-222-01	WASHER
* 117	3-368-239-13	BRACKET (U), HANGER	
	118	3-344-165-02	GEAR (B), FRICTION
	119	X-3344-119-1	GEAR ASSY (L), LOADING
	120	3-703-502-21	SCREW
	121	3-389-165-01	GEAR (B), FRICTION
	122	3-344-137-01	SPRING, COMPRESSION
	123	X-3344-117-1	ARM ASSY (L), MODE
	124	X-3344-109-4	ARM ASSY, DRIVING
	125	3-662-058-00	WASHER, SLIT
* 126	1-565-121-11	HOUSING, CONNECTOR 2P	
* 127	1-565-163-11	TERMINAL, SOLDERLESS	
	M902	X-3362-826-1	MOTOR ASSY
	S902	1-572-397-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)

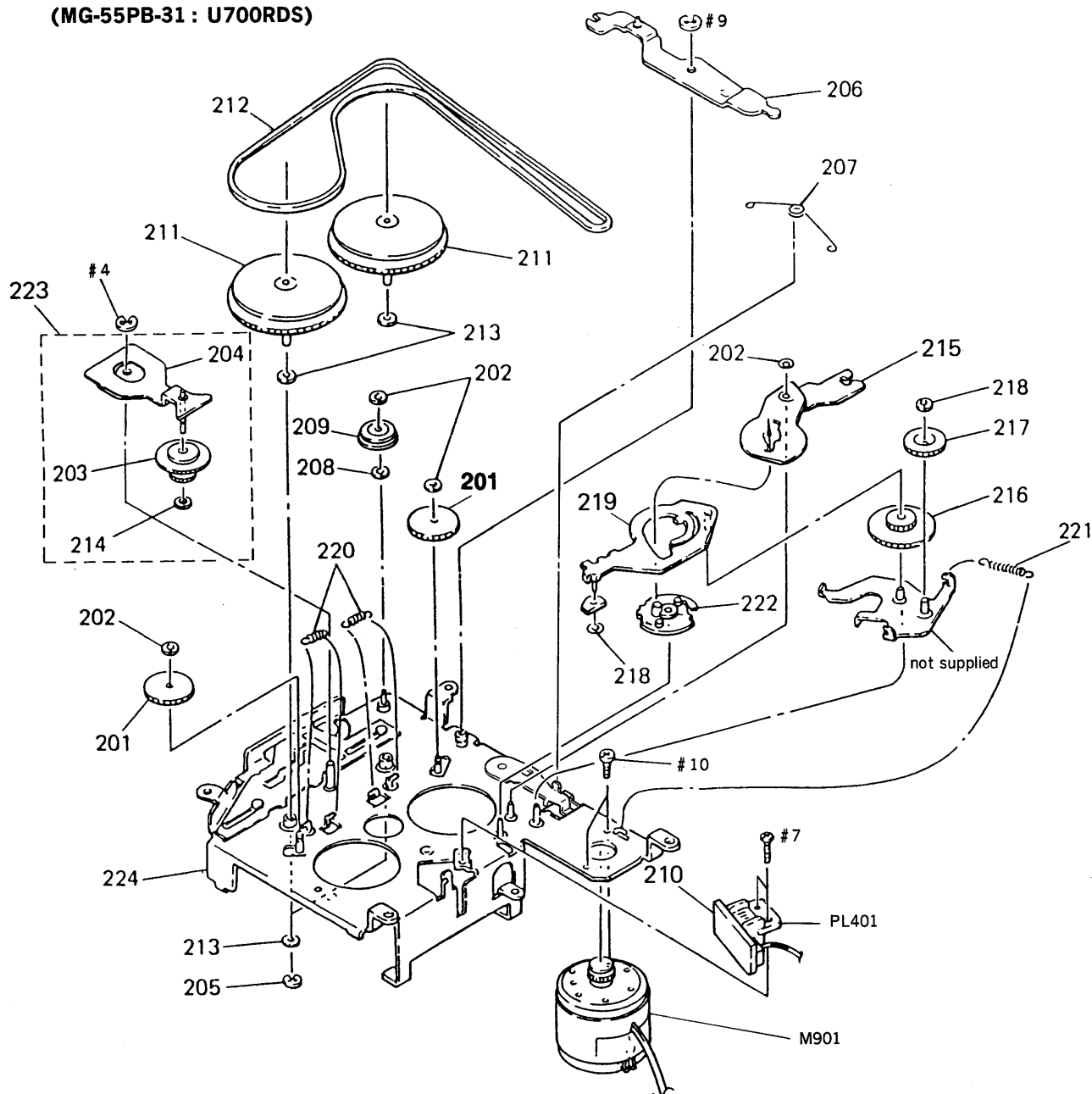
6-4. MECHANISM DECK SECTION 2
(MG-55PC-31 : U500RDS)
(MG-55PB-31 : U700RDS)



Ref. No.	Part No.	Description	Remark
151	3-344-110-01	SCREW (HB), STEP	
152	3-344-116-01	ROLLER (A), H/B	
153	3-344-222-01	WASHER	
154	X-3362-214-1	TABLE (F) ASSY, REEL	
155	3-344-143-01	SPRING (BT), COMPRESSION	
156	3-365-725-01	CAP (F), REEL	
157	3-364-151-01	WASHER	
* 158	X-3344-144-2	BRACKET (F) ASSY, REEL TABLE	
* 159	1-648-246-11	REEL BOARD	
* 160	X-3366-042-2	BASE ASSY (F), HEAD	
* 161	3-363-909-11	SPRING (R), PINCH PRESS	

Ref. No.	Part No.	Description	Remark
162	3-344-128-06	SEAM, DAH	
163	3-372-170-01	ARM, DAH	
164	3-364-122-01	SCREW (M1.4X5.5), ADJ	
165	3-344-130-04	RETAINER, HEAD	
* 166	3-344-220-01	COVER, MD	
* 167	3-382-483-01	LEVER (REVERSE JOINT)	
168	X-3344-115-1	ARM (R) ASSY, PINCH	
169	X-3344-116-1	ARM (F) ASSY, PINCH	
170	3-344-217-01	SPRING (CAM LOCK LEVER), TENSION	
171	3-701-437-01	POLY-SLIDER (A)	
HP901	1-543-726-41	HEAD, MAGNETIC (PLAYBACK)	

6-5. MECHANISM DECK SECTION 3
(MG-55PC-31 : U500RDS)
(MG-55PB-31 : U700RDS)



Ref.No.	Part No.	Description	Remark
201	3-376-927-01	GEAR (PLAY)	
202	3-344-222-01	WASHER	
203	X-3344-102-1	GEAR ASSY, FR	
* 204	X-3344-101-6	ARM ASSY, FR	
205	3-364-151-01	WASHER	
* 206	X-3344-139-3	ARM ASSY, POWER	
207	3-344-279-11	SPRING, BUFFER	
208	3-701-436-01	WASHER, 1.6	
209	3-371-905-01	PULLEY (M), MIDWAY (XR-U500RDS)	
209	3-371-971-01	PULLEY (P), MIDWAY (XR-U700RDS)	
* 210	1-648-247-11	PLUNGER BOARD	
211	3-386-047-01	FLYWHEEL (D) (XR-U700RDS)	
211	3-386-047-11	FLYWHEEL (D) (XR-U500RDS)	
212	3-387-987-01	BELT	

Ref.No.	Part No.	Description	Remark
213	3-701-437-01	POLY-SLIDER (A)	
214	3-344-224-01	WASHER	
* 215	X-3344-114-1	LEVER ASSY, REVERSE	
216	3-389-172-01	GEAR (REVERSE-B)	
217	3-389-173-01	GEAR (REVERSE-A)	
218	3-344-223-01	WASHER	
219	X-3366-710-1	LEVER ASSY (F6), CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-344-119-01	GEAR, RVS CAM	
223	A-3239-947-A	GEAR SUB ASSY, FR	
* 224	X-3366-043-2	CHASSIS (L) ASSY, MECHANICAL	
M901	X-3344-136-3	MOTOR SUB ASSY, CAPSTAN	
PL401	1-454-461-11	SOLENOID, PLUNGER	

SECTION 7 ELECTRICAL PARTS LIST

AMP

EQUALIZER

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark			
*	A-3295-648-A	AMP BOARD, COMPLETE (XR-U500RDS)				
*	A-3295-642-A	AMP BOARD, COMPLETE (XR-U700RDS)				

*	3-904-673-01	PLATE (HEAT SINK), GROUND				
	7-621-770-67	SCREW +PTT 2. 6X6 (S) (XR-U500RDS)				
< CAPACITOR >						
C901	1-104-889-91	ELECT	2200uF	20%	16V	
C902	1-104-890-91	ELECT	2200uF	20%	16V	
C903	1-136-165-00	FILM	0. 1uF	5%	50V	
		(XR-U500RDS)				
C903	1-104-646-91	CERAMIC	2. 2uF	20%	50V	
		(XR-U700RDS)				
C904	1-126-059-11	ELECT	10uF	20%	50V	
C905	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C911-914						
	1-136-165-00	FILM	0. 1uF	5%	50V	
C915	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C921-924						
	1-136-165-00	FILM	0. 1uF	5%	50V	
C925	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C931	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	
C941-944						
	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C945	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C946	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
< CONNECTOR >						
* CN900	1-695-244-21	PLUG, CONNECTOR 15P				
CN901	1-695-201-21	PLUG, CONNECTOR 15P				
* CN902	1-580-914-11	PLUG, CONNECTOR 12P				
< DIODE >						
D901	8-719-945-59	DIODE DSA3A4				
D931	8-719-034-46	DIODE MA4062-M (QZ)				
< IC >						
IC901	8-759-160-00	IC HA13151 (XR-U500RDS)				
IC901	8-759-159-99	IC HA13150A (XR-U700RDS)				

Ref. No.	Part No.	Description	Remark			
< JACK >						
J905	1-691-684-31	JACK, PIN 6P (UNLINK IN AUDIO, LINE OUT REAR, LINE OUT FRONT) (XR-U500RDS)				
J905	1-691-684-11	JACK, PIN 6P (UNLINK IN AUDIO, LINE OUT REAR, LINE OUT FRONT) (XR-U700RDS)				
< RESISTOR >						
R911-914						
	1-208-373-61	METAL GLAZE	2.2	5%	1/8W	
R915	1-208-498-41	METAL GLAZE	3.3K	2%	1/8W	
R916	1-208-504-41	METAL GLAZE	5.6K	2%	1/8W	
R921-924						
	1-208-373-61	METAL GLAZE	2.2	5%	1/8W	
R925	1-208-498-41	METAL GLAZE	3.3K	2%	1/8W	
R926	1-208-504-41	METAL GLAZE	5.6K	2%	1/8W	
R931	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R941	1-208-510-41	METAL GLAZE	10K	2%	1/8W	
R942	1-208-494-41	METAL GLAZE	2.2K	2%	1/8W	

*	A-3295-493-A	EQUALIZER BOARD, COMPLETE (XR-U500RDS)				
*	A-3295-492-A	EQUALIZER BOARD, COMPLETE (XR-U700RDS)				

< CAPACITOR >						
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C302	1-104-534-91	FILM CHIP	390PF	5%	50V	
C303	1-104-534-91	FILM CHIP	390PF	5%	50V	
C304	1-104-551-11	FILM CHIP	0.01uF	5%	16V	
C305	1-107-535-91	ELECT CHIP	0.22uF	20%	50V	
C306	1-104-543-11	FILM CHIP (XR-U700RDS)	0.0022uF	5%	50V	
C307	1-104-543-11	FILM CHIP (XR-U700RDS)	0.0022uF	5%	50V	
C308	1-104-543-11	FILM CHIP (XR-U700RDS)	0.0022uF	5%	50V	
C309	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
C310	1-104-563-11	FILM CHIP (XR-U700RDS)	0.1uF	5%	16V	
C311	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V	

EQUALIZER

KEY

Ref. No.	Part No.	Description	Remark
C312	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C313	1-126-187-11	ELECT	0.1uF 20% 50V
C314	1-107-551-91	ELECT CHIP	100uF 20% 10V
C315	1-126-193-11	ELECT	1uF 20% 50V
C316	1-165-128-11	CERAMIC CHIP	0.22uF 16V
C401	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C402	1-104-534-91	FILM CHIP	390PF 5% 50V
C403	1-104-534-91	FILM CHIP	390PF 5% 50V
C404	1-104-551-11	FILM CHIP	0.01uF 5% 16V
C405	1-107-535-91	ELECT CHIP	0.22uF 20% 50V
C406	1-104-543-11	FILM CHIP	0.0022uF 5% 50V
		(XR-U700RDS)	
C407	1-104-543-11	FILM CHIP	0.0022uF 5% 50V
		(XR-U700RDS)	
C408	1-104-543-11	FILM CHIP	0.1uF 5% 16V
		(XR-U700RDS)	
C409	1-104-563-11	FILM CHIP	0.1uF 5% 16V
C410	1-104-563-11	FILM CHIP	0.1uF 5% 16V
		(XR-U700RDS)	
C415	1-164-361-11	CERAMIC CHIP	0.047uF 16V

< CONNECTOR >

CN301	1-569-806-21	CONNECTOR, FPC 5P
CN302	1-565-770-11	CONNECTOR, FPC (1.0MM) (ZIF) 6P
* CN303	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P
* CN401	1-750-217-21	CONNECTOR (WAFER) 18P

< DIODE >

D301	8-719-404-35	DIODE	MA141WK
D302	8-719-404-35	DIODE	MA141WK
D303	8-719-404-35	DIODE	MA141WK

< IC >

IC401	8-759-161-01	IC	HA12164 (XR-U500RDS)
IC401	8-759-160-99	IC	HA12174 (XR-U700RDS)

< RESISTOR >

R301	1-208-534-61	METAL GLAZE	100K 5% 1/10W
R302	1-208-534-61	METAL GLAZE	100K 5% 1/10W
R303	1-208-464-61	METAL GLAZE	12K 5% 1/10W
R304	1-208-468-61	METAL GLAZE	18K 5% 1/10W
R305	1-208-546-61	METAL GLAZE	330K 5% 1/10W
R306	1-218-724-11	METAL CHIP	22K 0.50% 1/16W
		(XR-U700RDS)	
R307	1-218-313-11	METAL CHIP	22K 0.50% 1/16W
		(XR-U700RDS)	
R308	1-216-839-11	METAL CHIP	33K 5% 1/16W
		(XR-U700RDS)	
R309	1-216-836-11	METAL CHIP	18K 5% 1/16W

Ref. No.	Part No.	Description	Remark
R310	1-216-845-11	METAL CHIP	100K 5% 1/16W
		(XR-U700RDS)	
R311	1-216-851-11	METAL CHIP	330K 5% 1/16W
R312	1-216-853-11	METAL CHIP	470K 5% 1/16W
R313	1-216-841-11	METAL CHIP	47K 5% 1/16W
R314	1-216-836-11	METAL CHIP	18K 5% 1/16W
R315	1-216-833-11	METAL CHIP	10K 5% 1/16W
R401	1-208-534-61	METAL GLAZE	100K 5% 1/10W
R402	1-208-534-61	METAL GLAZE	100K 5% 1/10W
R403	1-208-464-61	METAL GLAZE	12K 5% 1/10W
R404	1-208-468-61	METAL GLAZE	18K 5% 1/10W
R405	1-208-546-61	METAL GLAZE	330K 5% 1/10W
R406	1-218-724-11	METAL CHIP	22K 0.50% 1/16W
		(XR-U700RDS)	
R407	1-218-313-11	METAL CHIP	560 0.50% 1/16W
		(XR-U700RDS)	
		< VARIABLE RESISTOR >	
RV301	1-241-552-11	RES, ADJ CERMET	470
RV401	1-241-552-11	RES, ADJ CERMET	470

< SWITCH >

S301	1-570-953-11	SWITCH, PUSH (1 KEY) (DETECT)
S302	1-570-953-11	SWITCH, PUSH (1 KEY) (FWD/REV)

* A-3222-612-A KEY BOARD, COMPLETE

*	3-389-672-01	HOLDER (MAIN:LCD)
*	3-389-673-01	PLATE (MAIN:LCD), LIGHT GUIDE
*	3-389-753-01	REFLECTOR (MAIN), SHEET
*	3-904-246-01	HOLDER (SUB:LCD)
*	3-904-247-01	PLATE (SUB:LCD), LIGHT GUIDE
*	3-904-248-01	REFLECTOR (SUB), SHEET
*	3-905-675-01	REFLECTOR (MIRROR)

< CAPACITOR >

C701	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V
C702	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V
C703	1-164-232-11	CERAMIC CHIP	0.01uF 50V

< CONNECTOR >

* CNP701 1-691-557-21 PIN, CONNECTOR 12P

< DIODE >

D701	8-719-987-45	LED	CL-155Y/PG-CD (TAPE <00>)
D702	8-719-987-45	LED	CL-155Y/PG-CD (△)
D703	8-719-987-45	LED	CL-155Y/PG-CD (CD)
D704	8-719-987-45	LED	CL-155Y/PG-CD (AF/TA)

Ref. No.	Part No.	Description	Remark
D705	8-719-987-45	LED CL-155Y/PG-CD (TUNER)	
D706	8-719-987-45	LED CL-155Y/PG-CD (DSP)	
D707	8-719-987-45	LED CL-155Y/PG-CD (FILE)	
D708	8-719-987-45	LED CL-155Y/PG-CD (SENS)	
D709	8-719-987-45	LED CL-155Y/PG-CD (10)	
D710	8-719-987-45	LED CL-155Y/PG-CD (9)	
D711	8-719-987-45	LED CL-155Y/PG-CD (MTL/8)	
D713	8-719-987-45	LED CL-155Y/PG-CD (ATA/5)	
D714	8-719-987-45	LED CL-155Y/PG-CD (BANK/4)	
D715	8-719-987-45	LED CL-155Y/PG-CD (SHUF/3)	
D716	8-719-987-45	LED CL-155Y/PG-CD (REPEAT/2)	
D717	8-719-987-45	LED CL-155Y/PG-CD (MUTE)	
D718	8-719-987-45	LED CL-155Y/PG-CD (+)	
D719	8-719-987-45	LED CL-155Y/PG-CD (SEL)	
D720	8-719-987-45	LED CL-155Y/PG-CD (□□/7)	
D722	8-719-987-45	LED CL-155Y/PG-CD (-)	
D723	8-719-987-45	LED CL-155Y/PG-CD (BL. SKIP/6)	
D724	8-719-987-45	LED CL-155Y/PG-CD (INTRO/1)	
D725	8-719-404-49	DIODE MA111	
D726	8-719-422-43	DIODE MA8051-H	
D727	8-719-422-43	DIODE MA8051-H	
D728	8-719-404-49	DIODE MA111	
D729	8-719-404-49	DIODE MA111	
< IC >			
IC701	8-759-171-74	IC MSM6660-01GS-V1K	
IC702	8-759-194-76	IC RS-30	
< LIQUID CRYSTAL DISPLAY >			
LCD701	1-810-094-11	DISPLAY PANEL, LIQUID CRYSTAL (MAIN)	
LCD702	1-810-095-11	DISPLAY PANEL, LIQUID CRYSTAL (SUB)	
< PILOT LAMP >			
PL701	1-517-181-11	LAMP, PILOT	
PL702	1-517-181-11	LAMP, PILOT	
PL703	1-517-181-21	LAMP, PILOT	
PL704	1-517-181-21	LAMP, PILOT	
PL705	1-517-181-11	LAMP, PILOT	
PL706	1-517-181-21	LAMP, PILOT	
< TRANSISTOR >			
Q701-704	8-729-904-66	TRANSISTOR DTD113EK	
< RESISTOR >			
R701	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R703	1-216-039-00	METAL CHIP 390 5% 1/10W	
R704	1-216-033-00	METAL CHIP 220 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R705	1-216-033-00	METAL CHIP 220 5% 1/10W	
R706	1-216-035-00	METAL CHIP 270 5% 1/10W	
R707	1-216-033-00	METAL CHIP 220 5% 1/10W	
R708	1-216-023-00	METAL CHIP 82 5% 1/10W	
R709	1-216-023-00	METAL CHIP 82 5% 1/10W	
R710	1-216-033-00	METAL CHIP 220 5% 1/10W	
R714	1-216-041-00	METAL CHIP 470 5% 1/10W	
R715	1-216-041-00	METAL CHIP 470 5% 1/10W	
R716-718	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R719	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R720	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R721-723	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R724	1-216-025-00	METAL CHIP 100 5% 1/10W	
R730	1-216-039-00	METAL CHIP 390 5% 1/10W	
R731	1-216-035-00	METAL CHIP 270 5% 1/10W	
R732	1-216-035-00	METAL CHIP 270 5% 1/10W	
R733	1-216-027-00	METAL CHIP 120 5% 1/10W	
R734	1-216-027-00	METAL CHIP 120 5% 1/10W	
R735	1-216-035-00	METAL CHIP 270 5% 1/10W	
R751	1-216-647-11	METAL CHIP 680 0.5% 1/10W	
R752	1-216-820-11	METAL CHIP 820 5% 1/16W	
R753	1-216-820-11	METAL CHIP 820 5% 1/16W	
R754	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R755	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R756	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R757	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R758	1-216-660-11	METAL CHIP 2.4K 0.5% 1/10W	
R759	1-216-661-11	METAL CHIP 2.7K 0.5% 1/10W	
R760	1-216-665-11	METAL CHIP 3.9K 0.5% 1/10W	
R761	1-216-669-11	METAL CHIP 5.6K 0.5% 1/10W	
R762	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R763	1-216-679-11	METAL CHIP 15K 0.5% 1/10W	
R771	1-216-647-11	METAL CHIP 680 0.5% 1/10W	
R772	1-216-820-11	METAL CHIP 820 5% 1/16W	
R773	1-216-820-11	METAL CHIP 820 5% 1/16W	
R774	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R775	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R776	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R777	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R778	1-216-660-11	METAL CHIP 2.4K 0.5% 1/10W	
R779	1-216-661-11	METAL CHIP 2.7K 0.5% 1/10W	
R780	1-216-665-11	METAL CHIP 3.9K 0.5% 1/10W	
R781	1-216-669-11	METAL CHIP 5.6K 0.5% 1/10W	
< SWITCH >			
S701	1-692-037-31	SWITCH, KEY BOARD (△)	
S702	1-692-037-31	SWITCH, KEY BOARD (TAPE <□>)	

KEY

MAIN

Ref. No.	Part No.	Description	Remark
S703	1-692-037-31	SWITCH, KEY BOARD (DSP)	
S704	1-692-037-31	SWITCH, KEY BOARD (DSPL)	
S705	1-692-037-31	SWITCH, KEY BOARD (10)	
S706	1-692-037-31	SWITCH, KEY BOARD (ATA/5)	
S707	1-692-037-31	SWITCH, KEY BOARD (9)	
S708	1-692-037-31	SWITCH, KEY BOARD (BANK/4)	
S709	1-692-037-31	SWITCH, KEY BOARD (SHUF/3)	
S710	1-692-037-31	SWITCH, KEY BOARD (MTL/8)	
S711	1-692-037-31	SWITCH, KEY BOARD (REPEAT/2)	
S712	1-692-037-31	SWITCH, KEY BOARD (□□/7)	
S713	1-692-037-31	SWITCH, KEY BOARD (INTRO/1)	
S714	1-692-037-31	SWITCH, KEY BOARD (BL. SKIP/6)	
S715	1-692-037-31	SWITCH, KEY BOARD (OFF)	
S716	1-692-037-31	SWITCH, KEY BOARD (TUNER)	
S717	1-692-037-31	SWITCH, KEY BOARD (AF/TA)	
S718	1-692-037-31	SWITCH, KEY BOARD (CD)	
S719	1-692-037-31	SWITCH, KEY BOARD (SENS)	
S720	1-692-037-31	SWITCH, KEY BOARD (FILE)	
S721	1-692-037-31	SWITCH, KEY BOARD (AMS/SEEK + ►►)	
S722	1-692-037-31	SWITCH, KEY BOARD (AMS/SEEK - ◄◄)	
S723	1-692-037-31	SWITCH, KEY BOARD (+)	
S724	1-692-037-31	SWITCH, KEY BOARD (SEL)	
S725	1-692-037-31	SWITCH, KEY BOARD (-)	
S726	1-692-037-31	SWITCH, KEY BOARD (MUTE)	

*	A-3295-638-A	MAIN BOARD, COMPLETE (XR-U700RDS:AEP)	
*	A-3295-646-A	MAIN BOARD, COMPLETE (XR-U500RDS:AEP)	
*	A-3295-658-A	MAIN BOARD, COMPLETE (XR-U700RDS:GERMAN)	
*	A-3295-659-A	MAIN BOARD, COMPLETE (XR-U500RDS:GERMAN)	

< BUZZER >			
BZ601	1-529-108-21	BUZZER, PIEZOELECTRIC	
< CAPACITOR >			
C17	1-124-994-11	ELECT 100uF	20% 10V
C18	1-124-584-00	ELECT 100uF	20% 10V
	(XR-U500RDS)		
C18	1-104-955-61	ELECT 100uF	20% 10V
	(XR-U700RDS)		
C19	1-124-994-11	ELECT 100uF	20% 10V
C20	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C21	1-124-584-00	ELECT 100uF	20% 10V
	(XR-U500RDS)		
C21	1-104-955-61	ELECT 100uF	20% 10V
	(XR-U700RDS)		
C22	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C23-25	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C26	1-136-171-00	FILM 0.033uF	5% 50V

Ref. No.	Part No.	Description	Remark
C27	1-130-475-00	MYLAR 0.0022uF	5% 50V
C28	1-126-154-11	ELECT 47uF	20% 6.3V
C29	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C30	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C31	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C32-35			
	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C36	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C37	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C38	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V
C40	1-126-154-11	ELECT 47uF	20% 6.3V
C41	1-104-675-21	MYLAR 0.001uF	5% 50V
C42	1-130-479-00	MYLAR 0.0047uF	5% 50V
C43	1-136-165-00	FILM 0.1uF	5% 50V
C44	1-136-169-00	FILM 0.22uF	5% 50V
C51	1-163-018-00	CERAMIC CHIP 0.0056uF	5% 50V
C60	1-124-229-00	ELECT 33uF	20% 10V
	(GERMAN)		
C61	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C79	1-136-156-00	FILM 0.018uF	5% 50V
	(AEP)		
C79	1-163-157-00	FILM 0.022uF	5% 50V
	(GERMAN)		
C80	1-136-156-00	FILM 0.018uF	5% 50V
	(AEP)		
C80	1-163-157-00	FILM 0.022uF	5% 50V
	(GERMAN)		
C81	1-126-301-11	ELECT 1uF	20% 50V
	(XR-U500RDS)		
C81	1-104-943-61	ELECT 2.2uF	20% 50V
	(XR-U700RDS)		
C82	1-126-301-11	ELECT 1uF	20% 50V
	(XR-U500RDS)		
C82	1-104-943-61	ELECT 2.2uF	20% 50V
	(XR-U700RDS)		
C85	1-137-189-11	FILM 0.18uF	5% 50V
C87	1-136-164-00	FILM 0.082uF	5% 50V
C100	1-163-275-11	CERAMIC CHIP 0.001uF	5% 50V
C101	1-126-301-11	ELECT 1uF	20% 50V
	(XR-U500RDS)		
C101	1-104-942-61	ELECT 1uF	20% 50V
	(XR-U700RDS)		
C102	1-126-301-11	ELECT 1uF	20% 50V
	(XR-U500RDS)		
C102	1-104-942-61	ELECT 1uF	20% 50V
	(XR-U700RDS)		
C104	1-126-301-11	ELECT 1uF	20% 50V
	(XR-U500RDS)		
C104	1-104-942-61	ELECT 1uF	20% 50V
	(XR-U700RDS)		
C106	1-124-257-00	ELECT 2.2uF	20% 50V
	(XR-U500RDS)		

Ref. No.	Part No.	Description		Remark	
C106	1-104-943-61	ELECT (XR-U700RDS)	2. 2uF	20%	50V
C107	1-124-257-00	ELECT (XR-U500RDS)	2. 2uF	20%	50V
C107	1-104-943-61	ELECT (XR-U700RDS)	2. 2uF	20%	50V
C108-110					
	1-163-275-11	CERAMIC CHIP	0. 001uF	5%	50V
C111	1-136-164-00	FILM	0. 082uF	5%	50V
C112	1-130-475-00	MYLAR	0. 0022uF	5%	50V
C113	1-126-574-61	ELECT (XR-U500RDS)	10uF	20%	35V
C113	1-104-948-61	ELECT (XR-U700RDS)	10uF	20%	35V
C114	1-130-478-00	MYLAR	0. 0039uF	5%	50V
C115	1-126-574-61	ELECT (XR-U500RDS)	10uF	20%	35V
C115	1-104-948-61	ELECT (XR-U700RDS)	10uF	20%	35V
C116	1-136-169-00	FILM	0. 22uF	5%	50V
C117	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C117	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C119	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C119	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C120	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C120	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C122	1-128-241-11	ELECT	220uF	20%	10V
C125	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C125	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C126	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C126	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C127	1-104-551-11	FILM CHIP	0. 01uF	5%	16V
C200	1-163-275-11	CERAMIC CHIP	0. 001uF	5%	50V
C201	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C201	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C202	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C202	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C204	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V

Ref. No.	Part No.	Description		Remark	
C204	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C206	1-124-257-00	ELECT (XR-U500RDS)	2. 2uF	20%	50V
C206	1-104-943-61	ELECT (XR-U700RDS)	2. 2uF	20%	50V
C207	1-124-257-00	ELECT (XR-U500RDS)	2. 2uF	20%	50V
C207	1-104-943-61	ELECT (XR-U700RDS)	2. 2uF	20%	50V
C208-210					
	1-163-275-11	CERAMIC CHIP	0. 001uF	5%	50V
C211	1-136-164-00	FILM	0. 082uF	5%	50V
C212	1-130-475-00	MYLAR	0. 0022uF	5%	50V
C213	1-126-574-61	ELECT (XR-U500RDS)	10uF	20%	35V
C213	1-104-948-61	ELECT (XR-U700RDS)	10uF	20%	35V
C214	1-130-478-00	MYLAR	0. 0039uF	5%	50V
C215	1-126-574-61	ELECT (XR-U500RDS)	10uF	20%	35V
C215	1-104-948-61	ELECT (XR-U700RDS)	10uF	20%	35V
C216	1-136-169-00	FILM	0. 22uF	5%	50V
C217	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C217	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C219	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C219	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C220	1-126-163-11	ELECT (XR-U500RDS)	4. 7uF	20%	50V
C220	1-104-947-61	ELECT (XR-U700RDS)	4. 7uF	20%	35V
C222	1-128-241-11	ELECT	220uF	20%	10V
C225	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C225	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C226	1-126-301-11	ELECT (XR-U500RDS)	1uF	20%	50V
C226	1-104-942-61	ELECT (XR-U700RDS)	1uF	20%	50V
C227	1-104-551-11	FILM CHIP	0. 01uF	5%	16V
C301	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C302	1-126-098-11	ELECT (XR-U500RDS)	22uF	20%	35V
C302	1-104-949-61	ELECT (XR-U700RDS)	22uF	20%	35V
C303	1-124-584-00	ELECT (XR-U500RDS)	100uF	20%	10V

Ref. No.	Part No.	Description	Remark
C303	1-104-955-61	ELECT (XR-U700RDS)	100uF 20% 10V
C304	1-126-301-11	ELECT (XR-U500RDS)	1uF 20% 50V
C304	1-104-942-61	ELECT (XR-U700RDS)	1uF 20% 50V
C305	1-124-589-11	ELECT	47uF 20% 16V
C306	1-126-157-11	ELECT	10uF 20% 16V
C307	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C308	1-104-559-11	FILM CHIP	0. 047uF 5% 16V
C401	1-124-242-00	ELECT	33uF 20% 25V
C402	1-164-222-11	CERAMIC CHIP	0. 22uF 25V
C403	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C404	1-126-103-11	ELECT	470uF 20% 16V
C501	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C502	1-126-153-11	ELECT	22uF 20% 6. 3V
C503	1-126-153-11	ELECT	22uF 20% 6. 3V
C504	1-163-229-11	CERAMIC CHIP	12PF 5% 50V
C505	1-163-229-11	CERAMIC CHIP	12PF 5% 50V
C506	1-126-157-11	ELECT	10uF 20% 16V
C507	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C510	1-164-222-11	CERAMIC CHIP	0. 22uF 25V
C511	1-163-809-11	CERAMIC CHIP	0. 047uF 10% 25V
C512	1-126-301-11	ELECT (XR-U500RDS)	1uF 20% 50V
C512	1-104-942-61	ELECT (XR-U700RDS)	1uF 20% 50V
C513	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C514	1-126-163-11	ELECT	4. 7uF 20% 50V
C515	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C516	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C519	1-163-809-11	CERAMIC CHIP	0. 047uF 10% 25V
C550	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C560	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C561	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C562	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C563	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C564	1-163-127-00	CERAMIC CHIP	270PF 5% 50V
C569	1-126-157-11	ELECT	10uF 20% 16V
C574	1-163-037-11	CERAMIC CHIP	0. 022uF 10% 25V
C577	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C578	1-164-156-11	CERAMIC CHIP	0. 1uF 25V
C580	1-125-705-11	CAP, DOUBLE LAYERS	0. 22F
C581	1-162-995-11	CERAMIC CHIP	0. 022uF 50V
C582	1-124-584-00	ELECT	100uF 20% 10V
C600	1-135-138-11	TANTAL. CHIP	10uF 20% 25V
C601	1-124-234-00	ELECT	22uF 20% 16V
C602	1-135-138-11	TANTAL. CHIP	10uF 20% 25V
C603	1-124-589-11	ELECT	47uF 20% 16V
C604	1-124-589-11	ELECT	47uF 20% 16V

Ref. No.	Part No.	Description	Remark
C605	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C607	1-124-584-00	ELECT (XR-U500RDS)	100uF 20% 10V
C607	1-104-955-61	ELECT (XR-U700RDS)	100uF 20% 10V
C608	1-124-584-00	ELECT (XR-U500RDS)	100uF 20% 10V
C608	1-104-955-61	ELECT (XR-U700RDS)	100uF 20% 10V
C610	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C611	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C651	1-126-163-11	ELECT	4. 7uF 20% 50V
< CONNECTOR >			
* CN301	1-695-202-11	SOCKET, CONNECTOR 15P	
CN302	1-580-916-11	SOCKET, CONNECTOR 12P	
* CN401	1-750-218-21	CONNECTOR (HOUSING) 18P	
CN402	1-691-591-11	PIN, CONNECTOR (1. 5MM) (SMD) 8P	
CN551	1-580-907-11	PLUG, CONNECTOR (UNLINK IN CONTROL)	
CN571	1-750-621-11	PLUG, CONNECTOR (14P-L)	
< DIODE >			
D3	8-719-034-63	DIODE MA4091-H (QZ)	
D4	8-719-034-42	DIODE MA4056-M (QZ)	
D6	8-719-041-79	DIODE MA721WA-TX	
D7	8-719-041-79	DIODE MA721WA-TX	
D101	8-719-034-22	DIODE MA4039-M (QZ)	
D250	8-719-404-49	DIODE MA111	
D302	8-719-404-49	DIODE MA111	
D303	8-719-027-48	DIODE MA142WA	
D304	8-719-404-49	DIODE MA111	
D401	8-719-400-18	DIODE MA152WK	
D402	8-719-034-63	DIODE MA4091-H (QZ)	
D403	8-719-404-49	DIODE MA111	
D404	8-719-404-49	DIODE MA111	
D405	8-719-404-49	DIODE MA111	
D501	8-719-027-48	DIODE MA142WA	
D502	8-719-404-49	DIODE MA111	
D551	8-719-034-49	DIODE MA4068-L (QZ)	
D552	8-719-034-46	DIODE MA4062-M (QZ)	
D553	8-719-034-46	DIODE MA4062-M (QZ)	
D554	8-719-404-49	DIODE MA111	
D555	8-719-404-49	DIODE MA111	
D556	8-719-034-46	DIODE MA4062-M (QZ)	
D571	8-719-034-46	DIODE MA4062-M (QZ)	
D572	8-719-034-46	DIODE MA4062-M (QZ)	
D573	8-719-034-46	DIODE MA4062-M (QZ)	
D574	8-719-034-46	DIODE MA4062-M (QZ)	
D575	8-719-034-46	DIODE MA4062-M (QZ)	

Ref. No.	Part No.	Description	Remark
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D576	8-719-034-46	DIODE MA4062-M (QZ)	
D577	8-719-034-46	DIODE MA4062-M (QZ)	
D578	8-719-034-46	DIODE MA4062-M (QZ)	
D580	8-719-034-70	DIODE MA4110-M (QZ)	
D582	8-719-027-48	DIODE MA142WA	

D583	8-719-820-05	DIODE 1SS181	
D584	8-719-404-49	DIODE MA111	
D601	8-719-034-42	DIODE MA4056-M (QZ)	
D602	8-719-034-98	DIODE MA4200-M (QZ)	
D651	8-719-027-50	DIODE MA142WK	

D652	8-719-034-90	DIODE MA4160-M (QZ)	
D653	8-719-034-54	DIODE MA4075-M (QZ)	

< FERRITE BEAD >

FB503	1-414-135-11	INDUCTOR, FERRITE BEAD 600	
FB601-603	1-414-135-11	INDUCTOR, FERRITE BEAD 600	

< IC >

IC2	8-759-823-81	IC LC7216M	
IC3	8-759-998-98	IC LM358D	
IC4	8-759-242-66	IC TC4W66F	
IC10	8-759-096-19	IC RC4558DR-A (XR-U500RDS)	
IC10	8-759-701-40	IC NJM3404AM-T1 (XR-U700RDS)	

IC11	8-759-096-19	IC RC4558DR-A (XR-U500RDS)	
IC11	8-759-701-40	IC NJM3404AM-T1 (XR-U700RDS)	
IC101	8-752-063-44	IC CXA1646Q	
IC106	8-759-700-94	IC NJM5532M	
IC109	8-759-096-19	IC RC4558DR-A (XR-U500RDS)	

IC109	8-759-701-40	IC NJM3404AM-T1 (XR-U700RDS)	
IC110	8-759-096-19	IC RC4558DR-A (XR-U500RDS)	
IC110	8-759-701-40	IC NJM3404AM-T1 (XR-U700RDS)	
IC401	8-759-823-87	IC LB1638M	
IC501	8-759-189-20	IC uPD75518GF-131-3B9	

IC502	8-759-191-96	IC MN1882417SNU1	
IC504	8-759-168-53	IC LH5116N3	
IC505	8-759-035-87	IC SC7S00F	
IC506	8-759-163-63	IC TDA7330BD-013TR	
IC551	8-759-096-16	IC MM1175XFF	

IC571	8-759-167-83	IC PST600EMT-T1	
IC601	8-759-182-75	IC BA3910B-V2	

< JACK >

* J1	1-750-619-11	JACK (ANTENNA)	
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< JUMPER RESISTOR >

JR504	1-216-295-00	METAL CHIP	0	5%	1/10W
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Ref. No.	Part No.	Description	Remark
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< COIL >

L3	1-410-204-31	INDUCTOR CHIP	10uH
L501	1-410-204-31	INDUCTOR CHIP	10uH
L502	1-410-509-61	INDUCTOR	10uH
L504	1-410-509-61	INDUCTOR	10uH
L505	1-410-204-31	INDUCTOR CHIP	10uH

< TRANSISTOR >

Q5	8-729-230-49	TRANSISTOR	2SC2712-YG
Q6	8-729-021-94	TRANSISTOR	2SK1657-T1B
Q8-10	8-729-021-95	TRANSISTOR	RN1441-A-TE85L
Q11	8-729-015-74	TRANSISTOR	UN5111
Q12	8-729-421-22	TRANSISTOR	UN2211

Q61	8-729-421-22	TRANSISTOR	UN2211 (GERMAN)
Q101	8-729-021-95	TRANSISTOR	RN1441-A-TE85L
Q102	8-729-021-95	TRANSISTOR	RN1441-A-TE85L
Q201	8-729-021-95	TRANSISTOR	RN1441-A-TE85L
Q202	8-729-021-95	TRANSISTOR	RN1441-A-TE85L

Q301	8-729-424-08	TRANSISTOR	UN2111
Q302	8-729-021-93	TRANSISTOR	UPA502T-T1
Q401	8-729-807-12	TRANSISTOR	2SD1802-S
Q402	8-729-020-67	TRANSISTOR	XN1A312-TX
Q403	8-729-106-60	TRANSISTOR	2SB1115A

Q404	8-729-421-22	TRANSISTOR	UN2211
Q405	8-729-421-22	TRANSISTOR	UN2211
Q502	8-729-020-67	TRANSISTOR	XN1A312-TX
Q551	8-729-403-35	TRANSISTOR	UN5113
Q552	8-729-231-74	TRANSISTOR	2SC4116-GL

Q553	8-729-015-74	TRANSISTOR	UN5111
Q571	8-729-020-67	TRANSISTOR	XN1A312-TX
Q572-575	8-729-807-12	TRANSISTOR	2SD1802-S
Q576	8-729-015-76	TRANSISTOR	UN5211
Q577	8-729-106-60	TRANSISTOR	2SB1115A

Q578	8-729-920-56	TRANSISTOR	FMG1
Q579	8-729-020-67	TRANSISTOR	XN1A312-TX
Q601	8-729-807-12	TRANSISTOR	2SD1802-S
Q602	8-729-421-22	TRANSISTOR	UN2211
Q650	8-729-421-22	TRANSISTOR	UN2211

Q651	8-729-231-74	TRANSISTOR	2SC4116-GL
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< RESISTOR >

R19	1-216-081-00	METAL CHIP	22K	5%	1/10W
R20	1-216-049-00	METAL CHIP	1K	5%	1/10W
R21	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R22	1-216-049-00	METAL CHIP	1K	5%	1/10W
R23	1-216-075-00	METAL CHIP	12K	5%	1/10W

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R24	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R213	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W
R25	1-216-833-11	METAL CHIP	10K	5%	1/16W	R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R27	1-216-827-11	METAL CHIP	3. 3K	5%	1/16W	R215	1-216-823-11	METAL CHIP	1. 5K	5%	1/16W
R30	1-216-113-00	METAL CHIP	470K	5%	1/10W	R216	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W
R31	1-216-073-00	METAL CHIP	10K	5%	1/10W	R217	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W	R218	1-216-833-11	METAL CHIP	10K	5%	1/16W
R33	1-216-049-00	METAL CHIP	1K	5%	1/10W	R219	1-216-834-11	METAL CHIP	12K	5%	1/16W
R34	1-216-119-00	METAL CHIP	820K	5%	1/10W	R221	1-208-563-41	METAL GLAZE	33K	2%	1/8W
R35	1-216-815-11	METAL CHIP	330	5%	1/16W	R222	1-208-563-41	METAL GLAZE	33K	2%	1/8W
R41	1-216-073-00	METAL CHIP	10K	5%	1/10W	R223	1-208-470-41	METAL GLAZE	220	2%	1/8W
R42	1-216-089-91	METAL GLAZE	47K	5%	1/10W	R224	1-208-470-41	METAL GLAZE	220	2%	1/8W
R43	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W (AEP)	R225	1-208-504-41	METAL GLAZE	5. 6K	2%	1/8W
R43	1-216-073-00	METAL CHIP	10K	5%	1/10W (GERMAN)	R226	1-208-498-41	METAL GLAZE	3. 3K	2%	1/8W
R44	1-216-089-91	METAL GLAZE	47K	5%	1/10W	R227	1-208-504-41	METAL GLAZE	5. 6K	2%	1/8W
R60	1-216-045-00	METAL CHIP	680	5%	1/10W	R228	1-208-498-41	METAL GLAZE	3. 3K	2%	1/8W
R61	1-216-049-00	METAL CHIP	1K	5%	1/10W	R229	1-208-494-41	METAL GLAZE	2. 2K	2%	1/8W
R81	1-208-506-41	METAL GLAZE	6. 8K	2%	1/8W (AEP)	R231	1-208-494-41	METAL GLAZE	2. 2K	2%	1/8W
R81	1-208-496-41	METAL GLAZE	2. 7K	2%	1/8W (GERMAN)	R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R82	1-208-506-41	METAL GLAZE	6. 8K	2%	1/8W (AEP)	R302	1-216-017-00	METAL CHIP	47	5%	1/10W
R82	1-208-496-41	METAL GLAZE	2. 7K	2%	1/8W (GERMAN)	R305	1-216-214-00	METAL GLAZE	4. 7K	5%	1/8W
R83	1-208-445-41	METAL GLAZE	2. 2K	2%	1/10W	R306	1-216-214-00	METAL GLAZE	4. 7K	5%	1/8W
R85	1-208-449-41	METAL GLAZE	3. 3K	2%	1/10W	R401	1-216-049-00	METAL CHIP	1K	5%	1/10W
R87	1-208-453-41	METAL GLAZE	4. 7K	2%	1/10W	R402	1-220-149-11	METAL GLAZE	2. 2	10%	1/2W
R88	1-208-453-41	METAL GLAZE	4. 7K	2%	1/10W	R403	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
R109	1-208-502-41	METAL GLAZE	4. 7K	2%	1/8W	R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R110	1-208-502-41	METAL GLAZE	4. 7K	2%	1/8W	R405	1-216-186-00	METAL GLAZE	330	5%	1/8W
R111	1-216-841-11	METAL CHIP	47K	5%	1/16W	R406	1-216-186-00	METAL GLAZE	330	5%	1/8W
R112	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W	R502	1-216-845-11	METAL CHIP	100K	5%	1/16W
R113	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W	R503	1-216-841-11	METAL CHIP	47K	5%	1/16W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W			(XR-U500RDS)			
R115	1-216-823-11	METAL CHIP	1. 5K	5%	1/16W	R507	1-216-837-11	METAL CHIP	22K	5%	1/16W
R116	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W	R510	1-216-049-00	METAL CHIP	1K	5%	1/10W
R117	1-216-831-11	METAL CHIP	6. 8K	5%	1/16W	R520	1-218-716-11	METAL CHIP	10K	0. 50%	1/16W
R118	1-216-833-11	METAL CHIP	10K	5%	1/16W	R522	1-218-716-11	METAL CHIP	10K	0. 50%	1/16W
R119	1-216-834-11	METAL CHIP	12K	5%	1/16W	R523	1-216-097-00	METAL CHIP	100K	5%	1/10W
R121	1-208-563-41	METAL GLAZE	33K	2%	1/8W	R524	1-216-097-00	METAL CHIP	100K	5%	1/10W
R122	1-208-563-41	METAL GLAZE	33K	2%	1/8W	R525	1-216-845-11	METAL CHIP	100K	5%	1/16W
R123	1-208-470-41	METAL GLAZE	220	2%	1/8W			(XR-U700RDS)			
R124	1-208-470-41	METAL GLAZE	220	2%	1/8W	R526	1-216-845-11	METAL CHIP	100K	5%	1/16W
R125	1-208-504-41	METAL GLAZE	5. 6K	2%	1/8W			(XR-U500RDS)			
R126	1-208-498-41	METAL GLAZE	3. 3K	2%	1/8W	R527	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R127	1-208-504-41	METAL GLAZE	5. 6K	2%	1/8W	R528	1-216-089-91	METAL GLAZE	47K	5%	1/10W (GERMAN)
R128	1-208-498-41	METAL GLAZE	3. 3K	2%	1/8W	R530	1-216-089-91	METAL GLAZE	47K		1/10W (AEP)
R129	1-208-494-41	METAL GLAZE	2. 2K	2%	1/8W	R531-539					
R131	1-208-494-41	METAL GLAZE	2. 2K	2%	1/8W		1-216-097-00	METAL CHIP	100K	5%	1/10W
R209	1-208-502-41	METAL GLAZE	4. 7K	2%	1/8W	R540	1-216-049-00	METAL CHIP	1K	5%	1/10W
R210	1-208-502-41	METAL GLAZE	4. 7K	2%	1/8W	R541	1-216-097-00	METAL CHIP	100K	5%	1/10W
R211	1-216-841-11	METAL CHIP	47K	5%	1/16W	R542	1-216-097-00	METAL CHIP	100K	5%	1/10W
R212	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W	R544	1-216-097-00	METAL CHIP	100K	5%	1/10W
						R545	1-216-845-11	METAL CHIP	100K	5%	1/16W

MAIN

PLUNGER

REEL

RESET

Ref. No.	Part No.	Description	Remark		
R547	1-216-845-11	METAL CHIP	100K	5%	1/16W
R548	1-216-837-11	METAL CHIP	22K	5%	1/16W
R549	1-216-837-11	METAL CHIP (XR-U700RDS)	22K	5%	1/16W
R550	1-216-081-00	METAL CHIP	22K	5%	1/10W
R551	1-216-025-00	METAL CHIP	100	5%	1/10W
R552	1-216-025-00	METAL CHIP	100	5%	1/10W
R553	1-216-073-00	METAL CHIP	10K	5%	1/10W
R554	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R555	1-216-841-11	METAL CHIP	47K	5%	1/16W
R556	1-216-845-11	METAL CHIP	100K	5%	1/16W
R565	1-216-129-00	METAL CHIP	2. 2M	5%	1/10W
R566	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R571	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R573	1-216-025-00	METAL CHIP	100	5%	1/10W
R575	1-216-809-11	METAL CHIP	100	5%	1/16W
R576	1-216-809-11	METAL CHIP	100	5%	1/16W
R577	1-216-017-00	METAL CHIP	47	5%	1/10W
R579	1-216-200-00	METAL GLAZE	1. 2K	5%	1/8W
R580-583	1-216-298-00	METAL CHIP	2. 2	5%	1/10W
R584	1-216-833-11	METAL CHIP	10K	5%	1/16W
R586	1-216-206-00	METAL GLAZE	2. 2K	5%	1/8W
R587	1-218-716-11	METAL CHIP	10K	0. 50%	1/16W
R588	1-218-716-11	METAL CHIP	10K	0. 50%	1/16W
R589	1-216-837-11	METAL CHIP	22K	5%	1/16W
R590	1-216-845-11	METAL CHIP	100K	5%	1/16W
R592	1-216-845-11	METAL CHIP	100K	5%	1/16W
R601	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R602	1-216-049-00	METAL CHIP	1K	5%	1/10W
R603	1-216-037-00	METAL CHIP	330	5%	1/10W
R650	1-216-206-00	METAL GLAZE	2. 2K	5%	1/8W
R653	1-216-841-11	METAL CHIP	47K	5%	1/16W
R654	1-216-841-11	METAL CHIP	47K	5%	1/16W
R655	1-216-838-11	METAL CHIP	27K	5%	1/16W
R656	1-216-845-11	METAL CHIP	100K	5%	1/16W
< NETWORK RESISTOR >					
RB504	1-239-426-91	RESISTOR, NETWORK (CHIP TYPE)	(2. 2KX4)		
RB508	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE)	(100KX4)		
RB512	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE)	(100KX4)		
RB516	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE)	(100KX4)		
RB571	1-239-426-91	RESISTOR, NETWORK (CHIP TYPE)	(2. 2KX4)		
< VARIABLE RESISTOR >					
RV10	1-238-605-31	RES, ADJ, CARBON 470K			
< SWITCH >					
S501	1-572-272-11	SWITCH, SLIDE (POWER SELECT)			

Ref. No.	Part No.	Description	Remark
S510	1-572-288-11	SWITCH, PUSH (NOSE)	
< TUNER >			
* TU1	A-3282-003-A	TUNER UNIT (TUX-001A)	
< VIBRATOR >			
X1	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)	
X502	1-567-821-11	VIBRATOR, CRYSTAL (4.19MHz)	
X503	1-579-242-11	VIBRATOR, CRYSTAL (4.332MHz)	
X504	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	

*	1-648-247-11	PLUNGER BOARD	

< PLUNGER >			
PL401	1-454-461-11	SOLENOID, PLUNGER	

*	1-648-246-11	REEL BOARD	

< CONNECTOR >			
CN201	1-691-742-11	PIN, CONNECTOR (PC BOARD) 4P	
< PHOTO INTERRUPTER >			
PH201	8-719-988-14	PHOTO INTERRUPTER PR-11-B	
PH202	8-719-988-14	PHOTO INTERRUPTER PR-11-B	
< TRANSISTOR >			
Q201	8-729-403-07	TRANSISTOR XN1213	
< RESISTOR >			
R201	1-216-845-11	METAL CHIP	100K 5% 1/16W
R202	1-216-845-11	METAL CHIP	100K 5% 1/16W
R203	1-216-190-00	METAL GLAZE	470 5% 1/8W

*	1-648-609-11	RESET BOARD	

< CONNECTOR >			
CN572	1-750-622-11	SOCKET, CONNECTOR 14P	
* CN573	1-691-558-11	SOCKET, CONNECTOR 12P	
< DIODE >			
D570	8-719-422-64	DIODE MA8062-M	

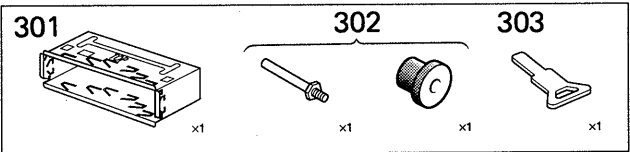
RESET

Ref.No.	Part No.	Description	Remark
< RESISTOR >			
R570	1-216-049-00	METAL CHIP 1K 5% 1/10W	
< SWITCH >			
S571	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE) (RESET)	

MISCELLANEOUS			

111	1-635-519-12	ROTARY SWITCH FLEXIBLE BOARD	
* 126	1-565-121-11	HOUSING, CONNECTOR 2P	
* 127	1-565-163-11	TERMINAL, SOLDERLESS	
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)	
HP901	1-543-726-41	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3344-136-3	MOTOR SUB ASSY, CAPSTAN	
M902	X-3362-826-1	MOTOR ASSY	
S902	1-572-397-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	
* TU1	A-3282-003-A	TUNER UNIT (TUX-001A)	

MOUNTING HARDWARE



Ref.No.	Part No.	Description	Remark
* 301	X-3366-235-3	FRAME ASSY, FITTING	
302	X-3366-405-1	SCREW ASSY (EXP), FITTING	
303	3-388-078-01	KEY	

Ref.No.	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS			

X-3366-865-1		CASE ASSY	
1-467-131-21		REMOTE COMMANDER (RM-X36) (XR-U500RDS: AEP, XR-U700RDS)	
3-908-052-01		COVER, BATTERY (RM-X36)	
3-756-919-11		MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U700RDS)	
3-756-919-41		MANUAL, INSTRUCTION (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (XR-U700RDS:AEP)	
3-756-920-11		MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U500RDS)	
3-756-920-41		MANUAL, INSTRUCTION (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (XR-U500RDS:AEP)	
3-756-922-11		MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U700RDS)	
3-756-922-41		MANUAL, INSTRUCTION, INSTALL (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (XR-U700RDS:AEP)	
3-756-923-11		MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U500RDS)	
3-756-923-41		MANUAL, INSTRUCTION, INSTALL (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (XR-U500RDS:AEP)	
* 3-904-840-01		CUSHION (UPPER)	
* 3-904-841-01		CUSHION (LOWER)	
* 3-905-751-01		INDIVIDUAL CARTON (XR-U700RDS:AEP)	
* 3-905-752-01		INDIVIDUAL CARTON (XR-U700RDS:GERMAN)	
* 3-905-753-01		INDIVIDUAL CARTON (XR-U500RDS:AEP)	
* 3-905-754-01		INDIVIDUAL CARTON (XR-U500RDS:GERMAN)	

HARDWARE LIST

#1	7-621-255-65	SCREW +P 2X10
#2	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT
#3	7-621-770-67	SCREW +PTT 2.6X6 (S)
#4	7-624-102-04	STOP RING 1.5, TYPE-E
#5	7-628-253-05	SCREW +PS 2X4
#6	7-621-770-XX	SCREW +PTT 2.6X8 (S)
#7	7-627-850-67	SCREW, PRECISION +P 1.4X4
#8	7-627-850-18	SCREW, PRECISION +P 1.4X2.5
#9	7-624-104-04	STOP RING 2.0, TYPE-E
#10	7-627-554-07	SCREW, PRECISION +P 2X2.2
#11	7-621-772-10	SCREW +B 2X4
#12	7-621-775-40	SCREW +PTT 2.6X8 (S)
#13	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#14	7-621-775-68	SCREW +PTT 2.6X12 (S)

XR-U500RDS/U700RDS

SONY[®] SERVICE MANUAL

AEP Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. TUNER MICROCOMPUTER CHANGE
2. PC BOARDS CHANGE

(ECN-CS402702)

1. TUNER MICROCOMPUTER CHANGE

The tuner microcomputer (IC502) has four types.

When servicing/inspecting, check the type of the tuner microcomputer and work according to the following table.

• Types of the Tuner Microcomputer

TYPE 1 : MN1882417SNU1

TYPE 2 : MN1882417SNU2

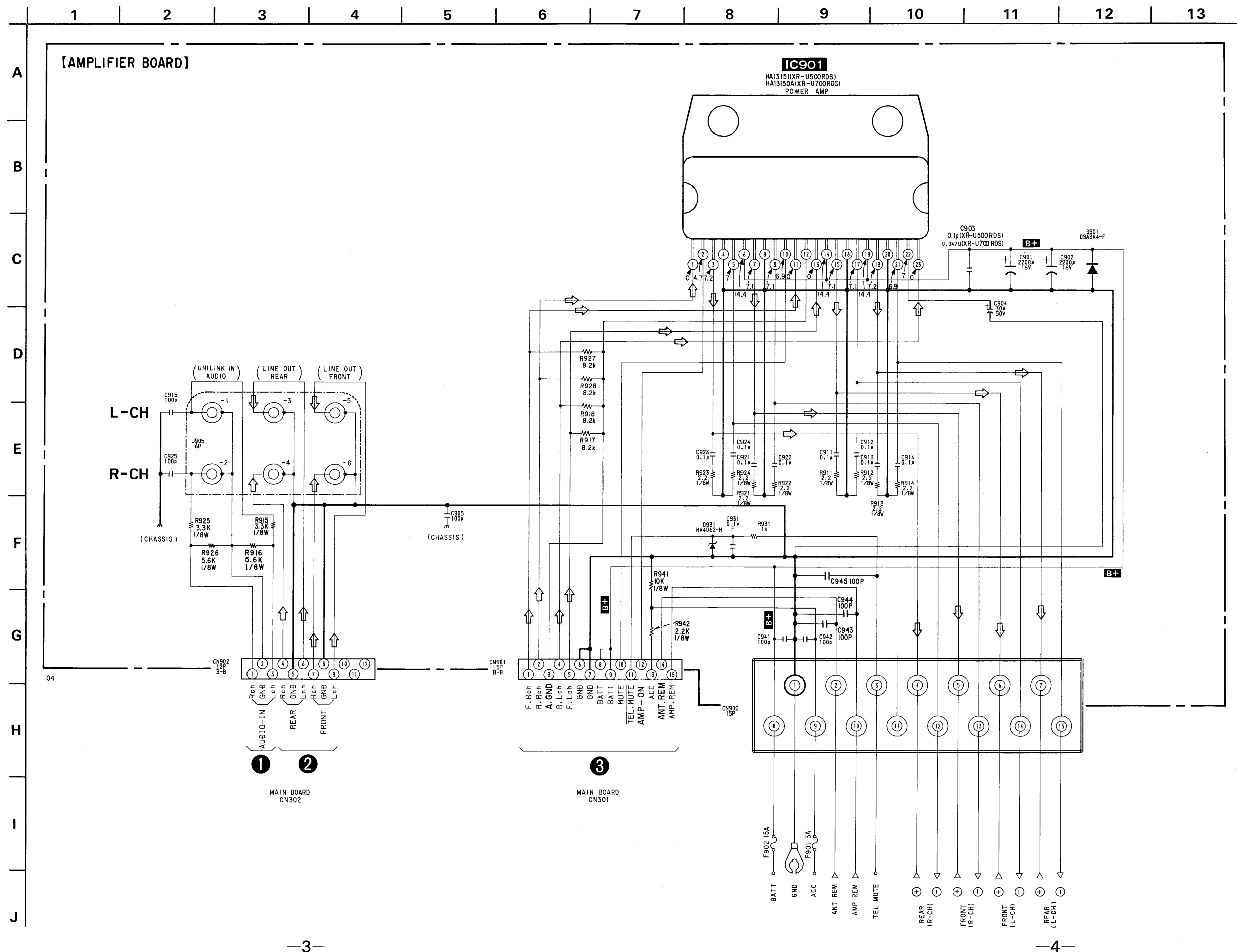
TYPE 3 : MN1883220SZE

TYPE 4 : MN1883220SZF

	TYPE 1	TYPE 2	TYPE 3	TYPE 4
R515, 516, 559 RB520--525	MOUNT	NO MOUNT	NO MOUNT	NO MOUNT
C512, 513 FB503 IC504, 505 L502 R532--539	MOUNT	MOUNT	NO MOUNT	NO MOUNT
R544	100k Ω	100k Ω	0 Ω	0 Ω
C60 (German) Q61 (German)	MOUNT	MOUNT	MOUNT	NO MOUNT

2. PC BOARDS CHANGE

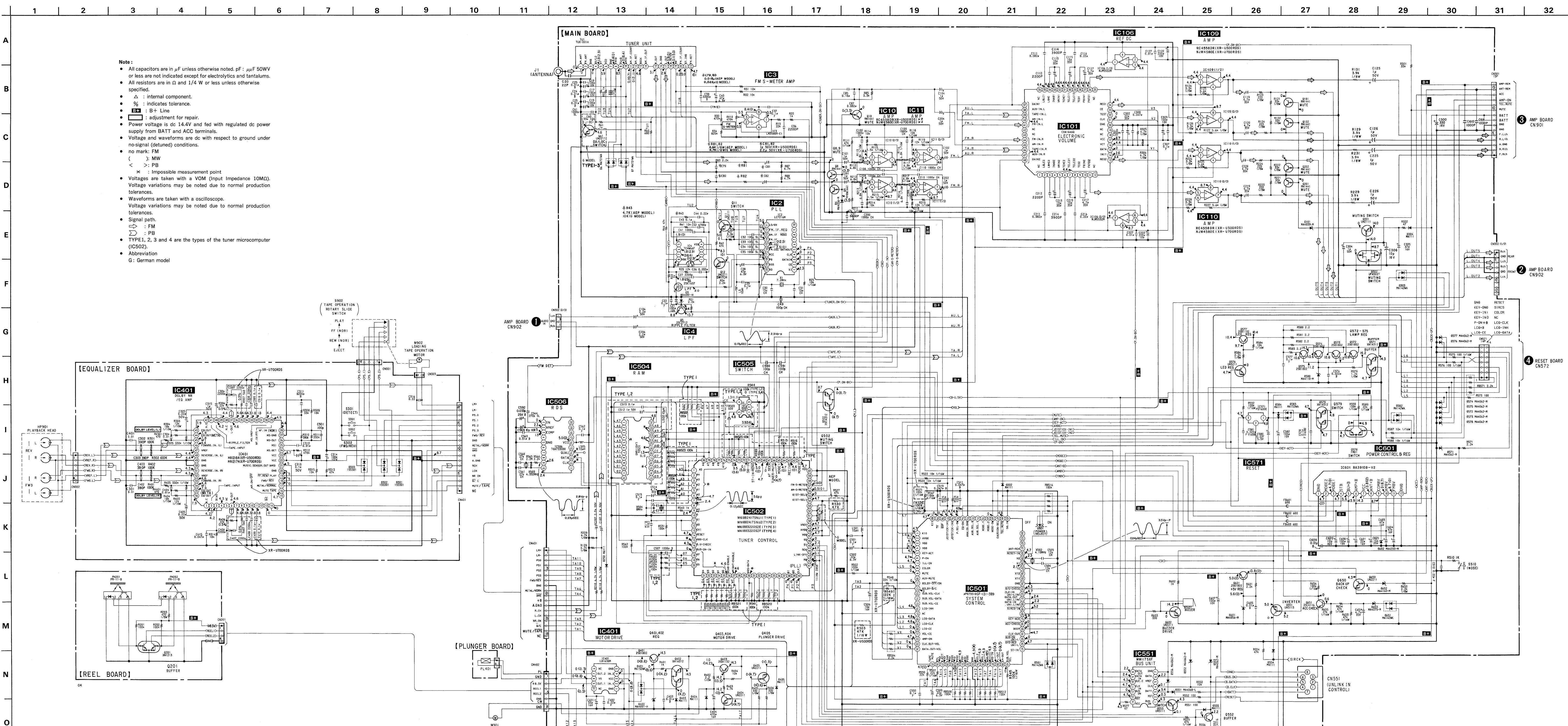
2-1. SCHEMATIC DIAGRAM—AMPLIFIER SECTION—



Note :

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4 \text{ W}$ or less unless otherwise specified.
- **B+** : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM

2-3. SCHEMATIC DIAGRAM—MAIN SECTION—



2-4. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA ..: μ A.. uPA..: μ PA..
uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD..
● CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

- TYPE 1, 2, 3 and 4 are the type of the tuner microcomputer (IC502).
- Abbreviation
G : German model

Ref. No.	Part No.	Description	Remark
*	A-3295-642-A	AMPLIFIER BOARD, COMPLETE	(U700RDS)
*	A-3295-648-A	AMPLIFIER BOARD, COMPLETE	(U500RDS)

*	3-904-673-01	PLATE (HEAT SINK), GROUND	
	7-621-770-67	SCREW +PTT 2.6X6 (S)	
< CAPACITOR >			
C901	1-126-768-11	ELECT 2200uF	20% 16V
C902	1-126-768-11	ELECT 2200uF	20% 16V
C903	1-136-165-00	FILM 0.1uF	5% 50V
	(U500RDS)		
C903	1-136-961-11	FILM 0.047uF	10% 160V
	(U700RDS)		
C904	1-126-059-11	ELECT 10uF	20% 50V
C905	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C911-914			
	1-136-165-00	FILM 0.1uF	5% 50V
C915	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C921-924			
	1-136-165-00	FILM 0.1uF	5% 50V
C925	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C931	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C941-944			
	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C945	1-163-251-11	CERAMIC CHIP 100PF	5% 50V

< CONNECTOR >

- * CN900 1-695-244-21 PLUG, CINNECTOR 15P
- * CN901 1-695-201-11 PLUG, CONNECTOR 15P
- * CN902 1-580-914-11 PLUG, CONNECTOR 12P

< DIODE >

- D901 8-719-945-59 DIODE DSA3A4
- D931 8-719-034-46 DIODE MA4062-M(QZ)

< IC >

- IC901 8-759-260-77 IC HA13150A (U700RDS)
- IC901 8-759-279-87 IC HA13151 (U500RDS)

Ref. No.	Part No.	Description	Remark
		< JACK >	
J905	1-691-684-11	JACK, PIN 6P (UNILINK IN AUDIO, LINE OUT REAR, LINE OUT FRONT) (U700RDS)	
J905	1-691-684-31	JACK, PIN 6P (UNILINK IN AUDIO, LINE OUT REAR, LINE OUT FRONT) (U500RDS)	
< RESISTOR >			
R911-914			
	1-208-373-11	METAL GLAZE 2.2 2% 1/8W	
R915	1-216-210-00	METAL GLAZE 3.3K 2% 1/8W	
R916	1-216-216-00	METAL GLAZE 5.6K 2% 1/8W	
R917	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R918	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R921-924			
	1-208-373-11	METAL GLAZE 2.2 2% 1/8W	
R925	1-216-210-00	METAL GLAZE 3.3K 2% 1/8W	
R926	1-216-216-00	METAL GLAZE 5.6K 2% 1/8W	
R927	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R928	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R931	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R941	1-216-222-00	METAL GLAZE 10K 2% 1/8W	
R942	1-216-206-00	METAL GLAZE 2.2K 2% 1/8W	

- * A-3295-492-A EQUALIZER BOARD, COMPLETE (U700RDS)
- * A-3295-493-A EQUALIZER BOARD, COMPLETE (U500RDS)

< CAPACITOR >

C301	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C302	1-104-534-11	FILM CHIP 390PF	5% 50V
C303	1-104-534-11	FILM CHIP 390PF	5% 50V
C304	1-104-551-11	FILM CHIP 0.01uF	5% 16V
C305	1-126-189-11	ELECT 0.22uF	20% 50V
C306-308			
	1-104-543-11	FILM CHIP 0.0022uF	5% 50V
	(U700RDS)		
C309	1-104-563-11	FILM CHIP 0.1uF	5% 16V

Ref. No.	Part No.	Description	Remark			
C310	1-104-563-11	FILM CHIP (U700RDS)	0.1uF	5%	16V	
C311	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V	
C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C313	1-126-187-11	ELECT	0.1uF	20%	50V	
C314	1-128-393-11	ELECT	100uF	20%	10V	
C315	1-126-193-11	ELECT	1uF	20%	50V	
C316	1-165-128-11	CERAMIC CHIP	0.22uF		16V	
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C402	1-104-534-11	FILM CHIP	390PF	5%	50V	
C403	1-104-534-11	FILM CHIP	390PF	5%	50V	
C404	1-104-551-11	FILM CHIP	0.01uF	5%	16V	
C405	1-126-189-11	ELECT	0.22uF	20%	50V	
C406-408	1-104-543-11	FILM CHIP (U700RDS)	0.0022uF	5%	50V	
C409	1-104-563-11	FILM CHIP	0.1uF	5%	16V	
C410	1-104-563-11	FILM CHIP (U700RDS)	0.1uF	5%	16V	
C415	1-164-361-11	CERAMIC CHIP	0.047uF		16V	
C501	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
< CONNECTOR >						
CN301	1-569-806-21	CONNECTOR, FPC5P				
CN302	1-565-770-11	CONNECTOR, FPC (1.0MM) (ZIF) 6P				
* CN303	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P				
* CN401	1-750-217-21	CONNECTOR (WAFER) 18P				
< DIODE >						
D301	8-719-404-35	DIODE MA141WK				
D302	8-719-404-35	DIODE MA141WK				
D303	8-719-404-35	DIODE MA141WK				
< IC >						
IC401	8-759-160-99	IC HA12174 (U700RDS)				
IC401	8-759-161-01	IC HA12164 (U500RDS)				
< RESISTOR >						
R301	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R302	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R303	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	
R304	1-208-812-11	METAL GLAZE	18K	2%	1/10W	
R305	1-218-764-11	METAL GLAZE	330K	2%	1/10W	
R306	1-218-724-11	METAL CHIP (U700RDS)	22K	0.50%	1/16W	
R307	1-218-841-11	METAL CHIP (U700RDS)	560	0.50%	1/16W	
R308	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R309	1-216-836-11	METAL CHIP	18K	5%	1/16W	
R310	1-216-842-11	METAL CHIP	56K	5%	1/16W	

Ref. No.	Part No.	Description	Remark			
R311	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R312	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R313	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R314	1-218-722-11	METAL CHIP	18K	0.50%	1/16W	
R315	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R401	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R402	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R403	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	
R404	1-208-812-11	METAL GLAZE	18K	2%	1/10W	
R405	1-218-764-11	METAL GLAZE	330K	2%	1/10W	
R406	1-218-724-11	METAL CHIP (U700RDS)	22K	0.50%	1/16W	
R407	1-218-841-11	METAL CHIP (U700RDS)	560	0.50%	1/16W	
< VARIABLE RESISTOR >						
RV301	1-241-552-11	RES, ADJ CERMET 470				
RV401	1-241-552-11	RES, ADJ CERMET 470				
< SWITCH >						
S301	1-570-953-11	SWITCH, PUSH (1 KEY) (DETECT)				
S302	1-570-953-11	SWITCH, PUSH (1 KEY) (FWD/REV)				

*	A-3295-638-A	MAIN BOARD, COMPLETE (U700RDS:AEP)				
*	A-3295-646-A	MAIN BOARD, COMPLETE (U500RDS:AEP)				
*	A-3295-658-A	MAIN BOARD, COMPLETE (U700RDS:G)				
*	A-3295-659-A	MAIN BOARD, COMPLETE (U500RDS:G)				

< BUZZER >						
BZ601	1-529-108-21	BUZZER, PIEZOELECTRIC				
< CAPACITOR >						
C17	1-124-994-11	ELECT	100uF	20%	10V	
C18	1-124-584-00	ELECT (U500RDS)	100uF	20%	10V	
C18	1-126-277-11	ELECT (U700RDS)	100uF	20%	10V	
C19	1-124-994-11	ELECT	100uF	20%	10V	
C20	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	
C21	1-124-584-00	ELECT (U500RDS)	100uF	20%	10V	
C21	1-126-277-11	ELECT (U700RDS)	100uF	20%	10V	
C22	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C23-25	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C26	1-136-159-00	FILM	0.033uF	5%	50V	
C27	1-130-475-00	MYLAR	0.0022uF	5%	50V	

Ref. No.	Part No.	Description		Remark	
C28	1-126-154-11	ELECT	47uF	20%	6.3V
C29	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C30	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C31	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C32-35	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C36	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C37	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C38	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C40	1-126-154-11	ELECT	47uF	20%	6.3V
C41	1-136-227-11	MYLAR	0.001uF	5%	50V
C42	1-130-479-00	MYLAR	0.0047uF	5%	50V
C43	1-136-165-00	FILM	0.1uF	5%	50V
C44	1-136-169-00	FILM	0.22uF	5%	50V
C49	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C51	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C60	1-124-229-00	ELECT	33uF	20%	10V
	(G) (TYPE 1-3)				
C61	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C79	1-136-156-00	FILM	0.018uF	5%	50V
	(AEP)				
C79	1-136-157-00	FILM	0.022uF	5%	50V
	(G)				
C80	1-136-156-00	FILM	0.018uF	5%	50V
	(AEP)				
C80	1-136-157-00	FILM	0.022uF	5%	50V
	(G)				
C81	1-126-301-11	ELECT	1uF	20%	50V
	(U500RDS)				
C81	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C82	1-126-301-11	ELECT	1uF	20%	50V
	(U500RDS)				
C82	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C85	1-137-189-11	FILM	0.18uF	5%	50V
C87	1-136-164-00	FILM	0.082uF	5%	50V
C100	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C101	1-126-301-11	ELECT	1uF	20%	50V
C102	1-126-301-11	ELECT	1uF	20%	50V
C104	1-126-301-11	ELECT	1uF	20%	50V
C106	1-124-257-00	ELECT	2.2uF	20%	50V
	(U500RDS)				
C106	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C107	1-124-257-00	ELECT	2.2uF	20%	50V
	(U500RDS)				
C107	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C108-110	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V

Ref. No.	Part No.	Description		Remark	
C111	1-136-164-00	FILM	0.082uF	5%	50V
C112	1-130-475-00	MYLAR	0.0022uF	5%	50V
C113	1-126-295-11	ELECT	10uF	20%	35V
C114	1-130-478-00	MYLAR	0.0039uF	5%	50V
C115	1-126-295-11	ELECT	10uF	20%	35V
C116	1-136-169-00	FILM	0.22uF	5%	50V
C117	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C117	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				
C119	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C119	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				
C120	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C120	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				
C122	1-128-241-11	ELECT	220uF	20%	10V
C125	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C125	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				
C126	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C126	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				
C127	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C200	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C201	1-126-301-11	ELECT	1uF	20%	50V
C202	1-126-301-11	ELECT	1uF	20%	50V
C204	1-126-301-11	ELECT	1uF	20%	50V
C206	1-124-257-00	ELECT	2.2uF	20%	50V
	(U500RDS)				
C206	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C207	1-124-257-00	ELECT	2.2uF	20%	50V
	(U500RDS)				
C207	1-126-302-11	ELECT	2.2uF	20%	50V
	(U700RDS)				
C208-210	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C211	1-136-164-00	FILM	0.082uF	5%	50V
C212	1-130-475-00	MYLAR	0.0022uF	5%	50V
C213	1-126-295-11	ELECT	10uF	20%	35V
C214	1-130-478-00	MYLAR	0.0039uF	5%	50V
C215	1-126-295-11	ELECT	10uF	20%	35V
C216	1-136-169-00	FILM	0.22uF	5%	50V
C217	1-126-163-11	ELECT	4.7uF	20%	50V
	(U500RDS)				
C217	1-126-294-11	ELECT	4.7uF	20%	35V
	(U700RDS)				

Ref. No.	Part No.	Description		Remark	
C219	1-126-163-11	ELECT (U500RDS)	4. 7uF	20%	50V
C219	1-126-294-11	ELECT (U700RDS)	4. 7uF	20%	35V
C220	1-126-163-11	ELECT (U500RDS)	4. 7uF	20%	50V
C220	1-126-294-11	ELECT (U700RDS)	4. 7uF	20%	35V
C222	1-128-241-11	ELECT	220uF	20%	10V
C225	1-126-163-11	ELECT (U500RDS)	4. 7uF	20%	50V
C225	1-126-294-11	ELECT (U700RDS)	4. 7uF	20%	35V
C226	1-126-163-11	ELECT (U500RDS)	4. 7uF	20%	50V
C226	1-126-294-11	ELECT (U700RDS)	4. 7uF	20%	35V
C227	1-104-551-11	FILM CHIP	0. 01uF	5%	16V
C301	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C302	1-126-098-11	ELECT (U500RDS)	22uF	20%	35V
C302	1-126-296-11	ELECT (U700RDS)	22uF	20%	35V
C303	1-124-584-00	ELECT (U500RDS)	100uF	20%	10V
C303	1-126-277-11	ELECT (U700RDS)	100uF	20%	10V
C304	1-126-301-11	ELECT	1uF	20%	50V
C305	1-124-589-11	ELECT	47uF	20%	16V
C306	1-126-157-11	ELECT	10uF	20%	16V
C307	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C308	1-104-559-11	FILM CHIP	0. 047uF	5%	16V
C401	1-124-242-00	ELECT	33uF	20%	25V
C402	1-164-222-11	CERAMIC CHIP	0. 22uF		25V
C403	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C404	1-126-103-11	ELECT	470uF	20%	16V
C500	1-126-541-11	ELECT	330uF	20%	16V
C501	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C502	1-126-153-11	ELECT	22uF	20%	6. 3V
C503	1-126-153-11	ELECT	22uF	20%	6. 3V
C504	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C505	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C506	1-126-157-11	ELECT	10uF	20%	16V
C507	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C510	1-164-222-11	CERAMIC CHIP	0. 22uF		25V
C511	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V
C512	1-404-942-61	ELECT (TYPE 1, 2)	1uF	20%	50V
C513	1-103-038-00	CERAMIC CHIP (TYPE 1, 2)	0. 1uF		25V
C514	1-126-163-11	ELECT	4. 7uF	20%	50V

Ref. No.	Part No.	Description		Remark	
C515	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C516	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C519	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V
C550	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C560	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C561	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C562	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C563	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C564	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C569	1-126-157-11	ELECT	10uF	20%	16V
C574	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V
C577	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C578	1-164-156-11	CERAMIC CHIP	0. 1uF		25V
C580	1-125-705-11	DOUBLE LAYERS	0. 22F		5. 5V
C581	1-162-995-11	CERAMIC CHIP	0. 022uF		50V
C582	1-124-584-00	ELECT	100uF	20%	10V
C590	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C591	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C592	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V
C601	1-124-234-00	ELECT	22uF	20%	16V
C603	1-124-589-11	ELECT	47uF	20%	16V
C604	1-124-589-11	ELECT	47uF	20%	16V
C605	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C607	1-124-584-00	ELECT (U500RDS)	100uF	20%	10V
C607	1-126-277-11	ELECT (U700RDS)	100uF	20%	10V
C608	1-124-584-00	ELECT (U500RDS)	100uF	20%	10V
C608	1-126-277-11	ELECT (U700RDS)	100uF	20%	10V
C609	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C610	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C611	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C620	1-126-157-11	ELECT	10uF	20%	16V
C621	1-135-138-11	TANTAL. CHIP	10uF	20%	25V
C651	1-126-163-11	ELECT	4. 7uF	20%	50V

< CONNECTOR >

* CN301	1-695-202-11	SOCKET, CONNECTOR 15P
* CN302	1-580-916-11	SOCKET, CONNECTOR 12P
* CN401	1-750-218-21	CONNECTOR (HOUSING) 18P
CN402	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD) 8P
CN551	1-580-907-11	PLUG, CONNECTOR (UNILINK IN CONTROL)
CN571	1-750-621-11	PLUG, CONNECTOR (14P-L)

MAIN

Ref. No.	Part No.	Description	Remark
< DIODE >			
D3	8-719-034-63	DIODE MA4091-H(QZ)	
D4	8-719-034-42	DIODE MA4056-M(QZ)	
D6	8-719-041-79	DIODE MA721WA-TX	
D7	8-719-041-79	DIODE MA721WA-TX	
D101	8-719-034-22	DIODE MA4039-M(QZ)	
D250	8-719-404-49	DIODE MA111	
D302	8-719-404-49	DIODE MA111	
D303	8-719-027-48	DIODE MA142WA	
D304	8-719-404-49	DIODE MA111	
D401	8-719-801-78	DIODE 1SS184	
D402	8-719-034-63	DIODE MA4091-H(QZ)	
D403	8-719-404-49	DIODE MA111	
D404	8-719-404-49	DIODE MA111	
D405	8-719-404-49	DIODE MA111	
D501	8-719-027-48	DIODE MA142WA	
D502	8-719-404-49	DIODE MA111	
D551	8-719-034-49	DIODE MA4068-L(QZ)	
D552	8-719-034-46	DIODE MA4062-M(QZ)	
D553	8-719-034-46	DIODE MA4062-M(QZ)	
D554	8-719-404-49	DIODE MA111	
D555	8-719-404-49	DIODE MA111	
D556	8-719-034-46	DIODE MA4062-M(QZ)	
D571	8-719-034-46	DIODE MA4062-M(QZ)	
D572	8-719-034-46	DIODE MA4062-M(QZ)	
D573	8-719-034-46	DIODE MA4062-M(QZ)	
D574	8-719-034-46	DIODE MA4062-M(QZ)	
D575	8-719-034-46	DIODE MA4062-M(QZ)	
D576	8-719-034-46	DIODE MA4062-M(QZ)	
D577	8-719-034-46	DIODE MA4062-M(QZ)	
D578	8-719-034-46	DIODE MA4062-M(QZ)	
D580	8-719-034-70	DIODE MA4110-M(QZ)	
D582	8-719-027-48	DIODE MA142WA	
D583	8-719-400-20	DIODE MA152WA	
D584	8-719-404-49	DIODE MA111	
D601	8-719-034-42	DIODE MA4056-M(QZ)	
D602	8-719-034-98	DIODE MA4200-M(QZ)	
D651	8-719-027-50	DIODE MA142WK	
D652	8-719-034-90	DIODE MA4160-M(QZ)	
D653	8-719-034-54	DIODE MA4075-M(QZ)	
< FERRITE BEAD >			
FB503	1-414-233-21	INDUCTOR, FERRITE BEAD (TYPE 1, 2)	
FB601-603	1-414-233-21	INDUCTOR, FERRITE BEAD	

Ref. No.	Part No.	Description	Remark
< IC >			
IC2	8-759-823-81	IC LC7216M	
IC3	8-759-998-98	IC LM358D	
IC4	8-759-242-66	IC TC4W66F	
IC10	8-759-096-19	IC RC4558DR-A (U500RDS)	
IC10	8-759-711-82	IC NJM4580E (U700RDS)	
IC11	8-759-096-19	IC RC4558DR-A (U500RDS)	
IC11	8-759-711-82	IC NJM4580E (U700RDS)	
IC101	8-752-063-44	IC CXA1646Q	
IC106	8-759-982-04	IC NJM5532M	
IC109	8-759-096-19	IC RC4558DR-A (U500RDS)	
IC109	8-759-711-82	IC NJM4580E (U700RDS)	
IC110	8-759-096-19	IC RC4558DR-A (U500RDS)	
IC110	8-759-711-82	IC NJM4580E (U700RDS)	
IC401	8-759-823-87	IC LB1638M	
IC501	8-759-189-20	IC uPD75518GF-131-3B9	
IC502	8-759-191-96	IC MN1882417SNU1 (TYPE 1)	
IC502	8-759-259-09	IC MN1882417SNU2 (TYPE 2)	
IC502	8-759-283-34	IC MN1883220SZE (TYPE 3)	
IC502	8-759-330-63	IC MN1883220SZF (TYPE 4)	
IC504	8-759-168-53	IC LH5116N3 (TYPE 1, 2)	
IC505	8-759-231-33	IC SC7S00F (TYPE 1, 2)	
IC506	8-759-163-63	IC TDA7330BD-013TR	
IC551	8-759-096-16	IC MM1175XF-T1	
IC571	8-759-167-83	IC PST600EMT-T1	
IC601	8-759-182-75	IC BA3910B-V2	
< JACK >			
* J1	1-750-619-11	JACK (ANTENNA)	
< COIL >			
L3	1-410-204-31	INDUCTOR CHIP 10uH	
L501	1-410-204-31	INDUCTOR CHIP 10uH	
L502	1-410-509-61	INDUCTOR 10uH (TYPE 1, 2)	
L504	1-410-509-61	INDUCTOR 10uH	
L505	1-410-204-31	INDUCTOR CHIP 10uH	
< TRANSISTOR >			
Q5	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q6	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q8	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q9	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q10	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q11	8-729-015-74	TRANSISTOR UN5111	
Q12	8-729-421-22	TRANSISTOR UN2211	
Q61	8-729-421-22	TRANSISTOR UN2211	
(G) (TYPE 1-3)			
Q101	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q102	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	

Ref. No.	Part No.	Description	Remark
Q201	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q202	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q301	8-729-424-08	TRANSISTOR UN2111	
Q302	8-729-021-93	TRANSISTOR uPA502T-T1	
Q401	8-729-807-12	TRANSISTOR 2SD1802-S	
Q402	8-729-020-67	TRANSISTOR XN1A312-TX	
Q403	8-729-106-60	TRANSISTOR 2SB1115A	
Q404	8-729-421-22	TRANSISTOR UN2211	
Q405	8-729-421-22	TRANSISTOR UN2211	
Q502	8-729-020-67	TRANSISTOR XN1A312-TX	
Q551	8-729-403-35	TRANSISTOR UN5113	
Q552	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q553	8-729-015-74	TRANSISTOR UN5111	
Q571	8-729-020-67	TRANSISTOR XN1A312-TX	
Q572	8-729-807-12	TRANSISTOR 2SD1802-S	
Q573	8-729-807-12	TRANSISTOR 2SD1802-S	
Q574	8-729-807-12	TRANSISTOR 2SD1802-S	
Q575	8-729-807-12	TRANSISTOR 2SD1802-S	
Q576	8-729-015-76	TRANSISTOR UN5211	
Q577	8-729-106-60	TRANSISTOR 2SB1115A	
Q578	8-729-920-56	TRANSISTOR FMG1	
Q579	8-729-020-67	TRANSISTOR XN1A312-TX	
Q601	8-729-807-12	TRANSISTOR 2SD1802-S	
Q602	8-729-421-22	TRANSISTOR UN2211	
Q650	8-729-421-22	TRANSISTOR UN2211	
Q651	8-729-231-74	TRANSISTOR 2SC4116-GL	
< RESISTOR >			
R19	1-216-081-00	METAL CHIP 22K 5%	1/10W
R20	1-216-049-00	METAL CHIP 1K 5%	1/10W
R21	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R22	1-216-049-00	METAL CHIP 1K 5%	1/10W
R23	1-216-075-00	METAL CHIP 12K 5%	1/10W
R24	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R25	1-216-833-11	METAL CHIP 10K 5%	1/16W
R27	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R30	1-216-113-00	METAL CHIP 470K 5%	1/10W
R31	1-216-073-00	METAL CHIP 10K 5%	1/10W
R32	1-216-073-00	METAL CHIP 10K 5%	1/10W
R33	1-216-049-00	METAL CHIP 1K 5%	1/10W
R34	1-216-119-00	METAL CHIP 820K 5%	1/10W
R35	1-216-815-11	METAL CHIP 330 5%	1/16W
R41	1-216-073-00	METAL CHIP 10K 5%	1/10W
R42	1-216-089-00	METAL CHIP 47K 5%	1/10W
R43	1-216-065-00	METAL CHIP (AEP) 4.7K 5%	1/10W
R43	1-216-073-00	METAL CHIP (G) 10K 5%	1/10W
R44	1-216-089-00	METAL CHIP 47K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R60	1-216-045-00	METAL CHIP 680 5%	1/10W
R61	1-216-049-00	METAL CHIP 1K 5%	1/10W
R81	1-216-208-00	METAL GLAZE (AEP) 2.7K 2%	1/8W
R81	1-216-671-11	METAL CHIP (G) 6.8K 0.5%	1/10W
R82	1-216-208-00	METAL GLAZE (AEP) 2.7K 2%	1/8W
R82	1-216-671-11	METAL CHIP (G) 6.8K 0.5%	1/10W
R83	1-216-659-11	METAL CHIP 2.2K 0.5%	1/10W
R85	1-216-663-11	METAL CHIP 3.3K 0.5%	1/10W
R87	1-216-667-11	METAL CHIP 4.7K 0.5%	1/10W
R88	1-216-667-11	METAL CHIP 4.7K 0.5%	1/10W
R109	1-216-214-00	METAL GLAZE 4.7K 2%	1/8W
R110	1-216-214-00	METAL GLAZE 4.7K 2%	1/8W
R111	1-216-841-11	METAL CHIP 47K 5%	1/16W
R112	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R113	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R114	1-216-073-00	METAL CHIP 10K 5%	1/10W
R115	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R116	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R117	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R118	1-216-833-11	METAL CHIP 10K 5%	1/16W
R119	1-216-834-11	METAL CHIP 12K 5%	1/16W
R121	1-216-234-00	METAL GLAZE 33K 2%	1/8W
R122	1-216-234-00	METAL GLAZE 33K 2%	1/8W
R123	1-216-182-00	METAL GLAZE 220 2%	1/8W
R124	1-216-182-00	METAL GLAZE 220 2%	1/8W
R125	1-216-216-00	METAL GLAZE 5.6K 2%	1/8W
R126	1-216-210-00	METAL GLAZE 3.3K 2%	1/8W
R127	1-216-216-00	METAL GLAZE 5.6K 2%	1/8W
R128	1-216-210-00	METAL GLAZE 3.3K 2%	1/8W
R129	1-208-500-41	METAL GLAZE 3.9K 2%	1/8W
R131	1-208-500-41	METAL GLAZE 3.9K 2%	1/8W
R209	1-216-214-00	METAL GLAZE 4.7K 2%	1/8W
R210	1-216-214-00	METAL GLAZE 4.7K 2%	1/8W
R211	1-216-841-11	METAL CHIP 47K 5%	1/16W
R212	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R213	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R214	1-216-073-00	METAL CHIP 10K 5%	1/10W
R215	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R216	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R217	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R218	1-216-833-11	METAL CHIP 10K 5%	1/16W
R219	1-216-834-11	METAL CHIP 12K 5%	1/16W
R221	1-216-234-00	METAL GLAZE 33K 2%	1/8W
R222	1-216-234-00	METAL GLAZE 33K 2%	1/8W
R223	1-216-182-00	METAL GLAZE 220 2%	1/8W

MAIN

Ref. No.	Part No.	Description	Remark		
R224	1-216-182-00	METAL GLAZE	220	2%	1/8W
R225	1-216-216-00	METAL GLAZE	5.6K	2%	1/8W
R226	1-216-210-00	METAL GLAZE	3.3K	2%	1/8W
R227	1-216-216-00	METAL GLAZE	5.6K	2%	1/8W
R228	1-216-210-00	METAL GLAZE	3.3K	2%	1/8W
R229	1-208-500-41	METAL GLAZE	3.9K	2%	1/8W
R231	1-208-500-41	METAL GLAZE	3.9K	2%	1/8W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-017-00	METAL CHIP	47	5%	1/10W
R305	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R306	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R401	1-216-049-00	METAL CHIP	1K	5%	1/10W
R402	1-220-149-11	METAL GLAZE	2.2	10%	1/2W
R403	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-186-00	METAL GLAZE	330	5%	1/8W
R406	1-216-186-00	METAL GLAZE	330	5%	1/8W
R502	1-216-845-11	METAL CHIP	100K	5%	1/16W
R503	1-216-841-11	METAL CHIP (U500RDS)	47K	5%	1/16W
R507	1-216-837-11	METAL CHIP	22K	5%	1/16W
R510	1-216-049-00	METAL CHIP	1K	5%	1/10W
R515	1-216-097-00	METAL CHIP (TYPE 1)	100K	5%	1/10W
R516	1-216-097-00	METAL CHIP (TYPE 1)	100K	5%	1/10W
R520	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R522	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R523	1-216-097-00	METAL CHIP	100K	5%	1/10W
R524	1-216-097-00	METAL CHIP	100K	5%	1/10W
R525	1-216-845-11	METAL CHIP (U700RDS)	100K	5%	1/16W
R526	1-216-845-11	METAL CHIP (U500RDS)	100K	5%	1/16W
R527	1-216-089-00	METAL CHIP	47K	5%	1/10W
R528	1-216-089-00	METAL CHIP (U500RDS:G/U700RDS:G)	47K	5%	1/10W
R530	1-216-089-00	METAL CHIP (U500RDS:AEP/U700RDS:AEP)	47K	5%	1/10W
R531	1-216-097-00	METAL CHIP	100K	5%	1/10W
R532-539	1-216-097-00	METAL CHIP (TYPE 1,2)	100K	5%	1/10W
R540	1-216-049-00	METAL CHIP	1K	5%	1/10W
R541	1-216-097-00	METAL CHIP	100K	5%	1/10W
R542	1-216-097-00	METAL CHIP	100K	5%	1/10W
R544	1-216-097-00	METAL CHIP (TYPE 1,2)	100K	5%	1/10W
R544	1-216-296-00	METAL CHIP (TYPE 3,4)	0	5%	1/8W
R545	1-216-845-11	METAL CHIP	100K	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R547	1-216-845-11	METAL CHIP	100K	5%	1/16W
R548	1-216-837-11	METAL CHIP	22K	5%	1/16W
R549	1-216-837-11	METAL CHIP (U700RDS)	22K	5%	1/16W
R550	1-216-081-00	METAL CHIP	22K	5%	1/10W
R551	1-216-025-00	METAL CHIP	100	5%	1/10W
R552	1-216-025-00	METAL CHIP	100	5%	1/10W
R553	1-216-073-00	METAL CHIP	10K	5%	1/10W
R554	1-216-089-00	METAL CHIP	47K	5%	1/10W
R555	1-216-841-11	METAL CHIP	47K	5%	1/16W
R556	1-216-845-11	METAL CHIP	100K	5%	1/16W
R565	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R566	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R571	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R573	1-216-025-00	METAL CHIP	100	5%	1/10W
R575	1-216-809-11	METAL CHIP	100	5%	1/16W
R576	1-216-809-11	METAL CHIP	100	5%	1/16W
R577	1-216-017-00	METAL CHIP	47	5%	1/10W
R579	1-216-200-11	METAL GLAZE	1.2K	5%	1/8W
R580-583	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R584	1-216-833-11	METAL CHIP	10K	5%	1/16W
R586	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R587	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R588	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R589	1-216-837-11	METAL CHIP	22K	5%	1/16W
R590	1-216-845-11	METAL CHIP	100K	5%	1/16W
R592	1-216-845-11	METAL CHIP	100K	5%	1/16W
R599	1-216-097-00	METAL CHIP (TYPE 1)	100K	5%	1/10W
R601	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R602	1-216-049-00	METAL CHIP	1K	5%	1/10W
R603	1-216-037-00	METAL CHIP	330	5%	1/10W
R650	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R653	1-216-841-11	METAL CHIP	47K	5%	1/16W
R654	1-216-841-11	METAL CHIP	47K	5%	1/16W
R655	1-216-838-11	METAL CHIP	27K	5%	1/16W
R656	1-216-845-11	METAL CHIP	100K	5%	1/16W

< RESISTOR NETWORK >

RB504	1-239-426-11	RESISTOR, NETWORK (CHIP TYPE) (2.2KX4)
RB508	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE) (100KX4)
RB512	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE) (100KX4)
RB516	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE) (100KX4)
RB520-525	1-236-907-11	RESISTOR, NETWORK (CHIP TYPE) (100KX4)
		(TYPE 1)
RB571	1-239-426-11	RESISTOR, NETWORK (CHIP TYPE) (2.2KX4)

Ref.No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV10	1-238-605-31	RES, ADJ, CARBON 470K	
< SWITCH >			
S501	1-572-272-11	SWITCH, SLIDE (POWER SELECT)	
S510	1-572-288-11	SWITCH, PUSH (NOSE)	
< VIBRATOR >			
X1	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)	
X502	1-567-821-11	VIBRATOR, CRYSTAL (4.19MHz)	
X503	1-579-242-11	VIBRATOR, CRYSTAL (4.332MHz)	
X504	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
