XR-CA360/CA360X

SERVICE MANUAL

Ver 1.2 2003.12

E Model
XR-CA360/CA360X
Saudi Arabia Model
XR-CA360

Photo: XR-CA360

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36SZ13-32

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.13 % (WRMS)
Frequency response	30 – 15,000 Hz
Signal-to-noise ratio	55 dB

Tuner section

FM

Tuning range (E model)	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Tuning range (Saudi Arabia model)	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (E model)

Tuning range	AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

MW/SW (Saudi Arabia model)

Tuning range	MW: 531 – 1,602 kHz SW1: 2,940 – 7,735 kHz SW2: 9,500 – 18,135 kHz (except for 10,140 – 11,575 kHz)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Audio output Power aerial relay control lead Power amplifier control lead
Inputs	BUS control input terminal BUS audio input terminal
Tone controls	Low: ±10 dB at 60 Hz (Xplod) Mid: ±10 dB at 1 kHz (Xplod) High: ±10 dB at 10 kHz (Xplod)
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 178 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

E model
FM/AM/CASSETTE CAR STEREO
Saudi Arabia model
FM/MW/SW CASSETTE CAR STEREO

9-874-258-03
2003L05-1

Sony Corporation
e Vehicle Company
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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

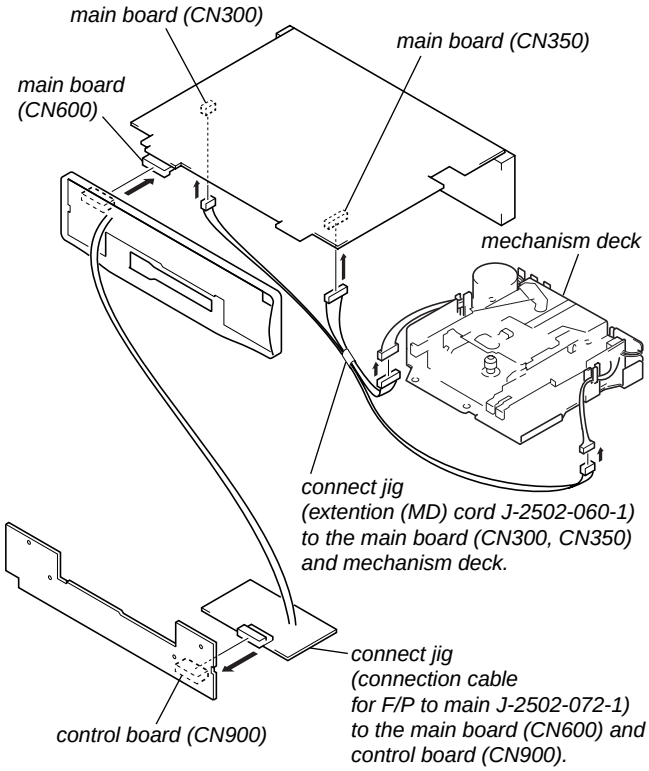
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SERVICING NOTES

SERVICE POSITION

In checking the control board and main board, prepare two jigs (extension (MD) cord J-2502-060-1 and
connection cable for F/P to main J-2502-072-1).



Note of replacing of the IC1

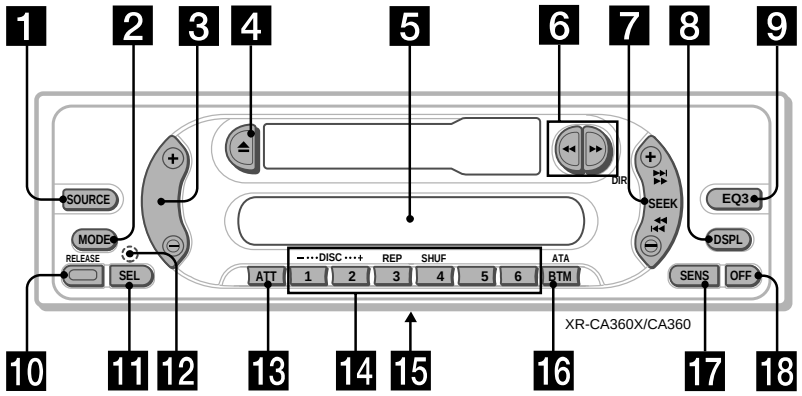
In this set, the IC1 on the MAIN board is changed from the midway of the production.
When the replacing of the IC1, be sure to check the model name printed by IC, and replace the IC1 by following the instructions below.

- When replacing of the IC1 (MN101C49HAS)
  Replace the IC1 with the MN101C49HEA (Part No.: 6-603-178-01), and replace the TU101 (A-3220-944-A) simultaneously.
- When replacing of the IC1 (MN101C49HEA)
  Perform the usual replacing.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls



Refer to the pages listed for details.

1 **SOURCE (Radio/CD/MD) button**

2 **MODE button**
During radio reception:
Band select
During CD/MD playback:
CD/MD unit select

3 **Volume +/– button**

4 **⏏ (eject) button**

5 **Display window**

6 **◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons**

7 **SEEK button**
Seek
Automatic Music Sensor
Manual search

8 **DSPL (display mode change) button**

9 **EQ3 button**

10 **RELEASE (front panel release) button**

11 **SEL (select) button**

12 **RESET button (located on the front side of the unit behind the front panel)**

13 **ATT (attenuate) button**

14 **Number buttons**
During radio reception:
Preset number select
During CD/MD playback:
(1) DISC –
(2) DISC +
(3) REP
(4) SHUF

15 **Frequency select switch (E model) (located on the bottom of the unit)**
See "Frequency select switch" in the Installation/Connections manual.

16 **BTM/ATA button**

17 **SENS button**

18 **OFF button***

* **Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for 2 seconds to turn off the clock display after turning off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

Setting the clock

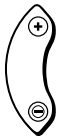
The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

1 **Press (DSPL) for 2 seconds.**

The hour indication flashes.

❶ Press either side of the volume button to set the hour.



❷ Press (SEL).

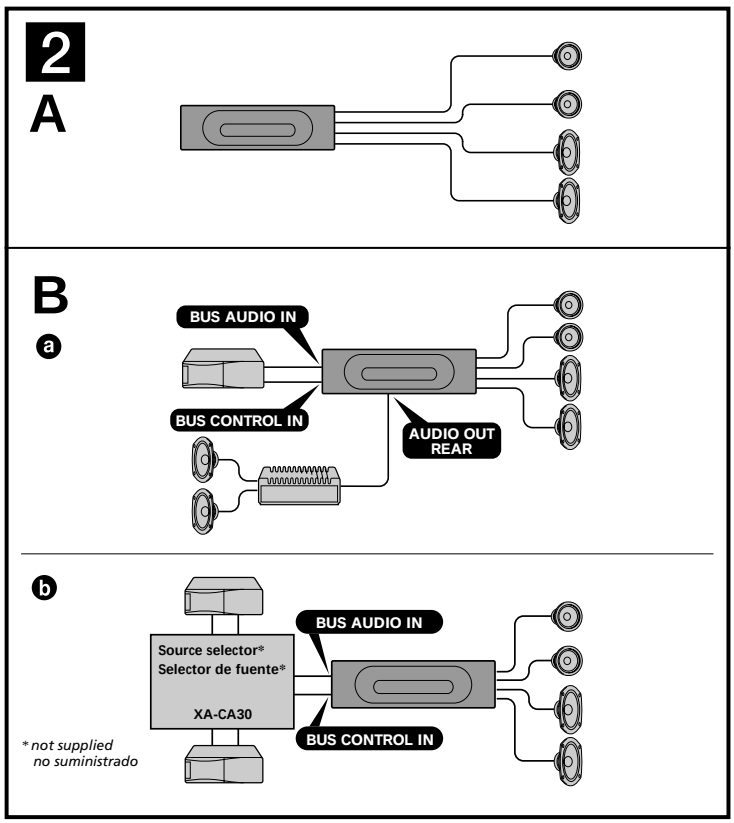
The minute indication flashes.

❸ Press either side of the volume button to set the minute.

2 **Press (DSPL).**

The clock starts.

After the clock setting is complete, the display returns to normal play mode.



Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- **Run all earth wires to a common earth point.**
- Be sure to insulate any loose unconnected wires with electrical tape for safety.

Notes on the power supply cord (yellow)

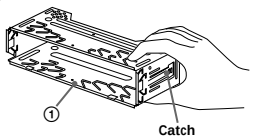
- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Parts list (1)

- The numbers in the list are keyed to those in the instructions.
- The bracket ① and the protection collar ⑤ are attached to the unit before shipping. Before mounting the unit, use the release keys ⑦ to remove the bracket ① and the protection collar ⑤ from the unit. For details, see "Removing the protection collar and the bracket (4)" on the reverse side of the sheet.
- **Keep the release keys ⑦ for future use as they are also necessary if you remove the unit from your car.**

Caution

Handle the bracket ① carefully to avoid injuring your fingers.



Note

Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 2 mm. If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.

Connection example (2)

***Notes* (2-B-a)**

- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

***Tip* (2-B-b)**

For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black earth lead, then connect the yellow and red power input leads.

❷ **To the power aerial control lead or power supply lead of aerial booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.*
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the +12 V power terminal which is energised in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.*
  Be sure to connect the black ground lead to a metal surface of the car first.
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❺ **To the +12 V power terminal which is energised at all times**
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads

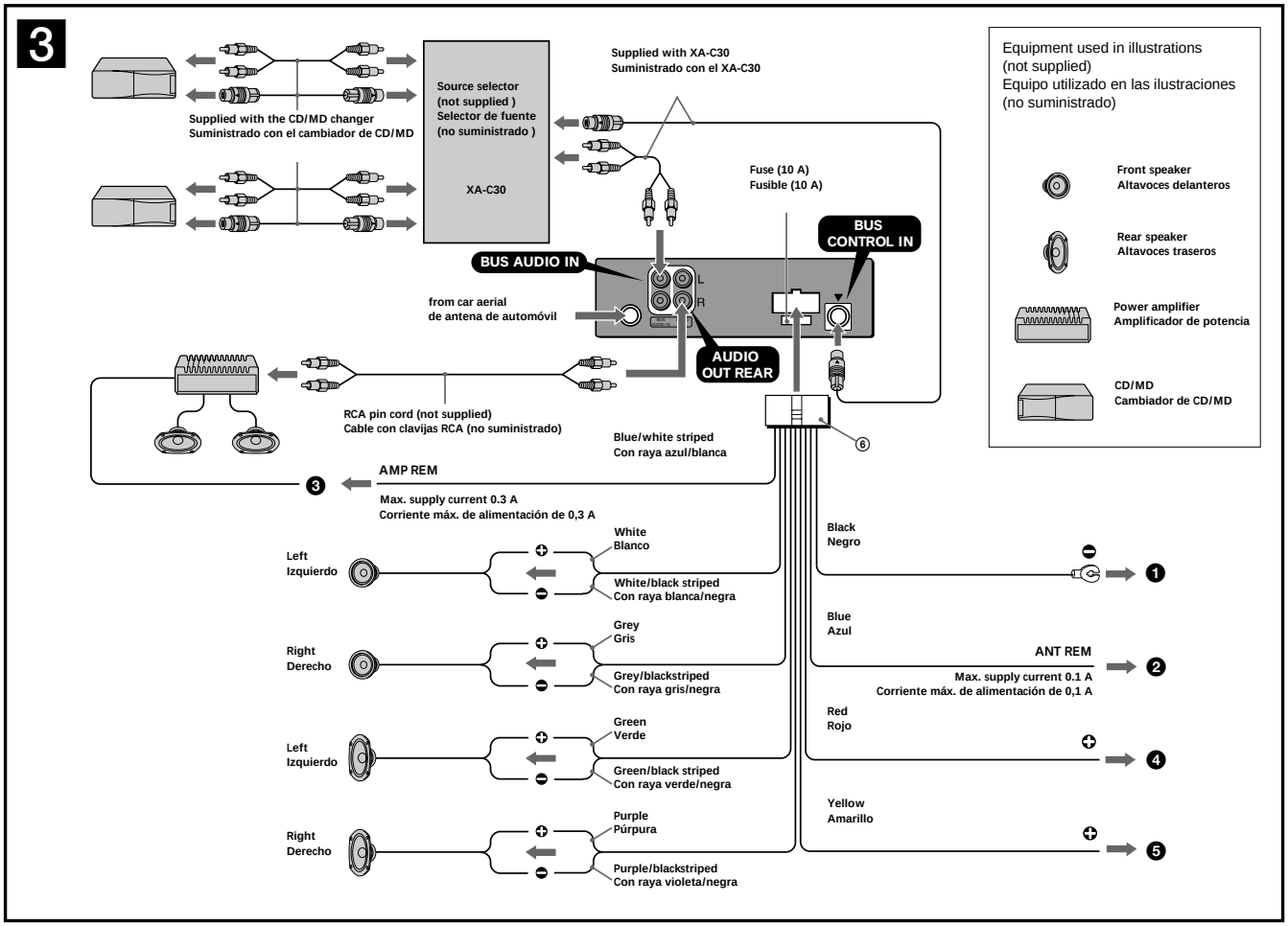
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*



Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

Removing the protection collar and the bracket (4)

Before installing the unit, remove the protection collar ⑤ and the bracket ① from the unit.

1 Remove the protection collar ⑤.

❶ Engage the release keys ⑦ together with the protection collar ⑤.

❷ Pull out the release keys ⑦ to remove the protection collar ⑤.

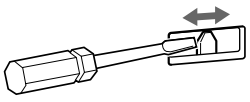
2 Remove the bracket ①.

❶ Insert both release keys ⑦ together between the unit and the bracket until they click.

❷ Pull down the bracket ①, then pull up the unit to separate.

Frequency select switch (E model)

The AM (FM) tuning interval is factory-set to the 9 k (50 k) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10 k (200 k) position before making connections.



Mounting example (5)

Installation in the dashboard

Notes

- *Bend these claws outward for a tight fit, if necessary (5-2).*
- *Make sure that the 4 catches on the protection collar ⑤ are properly engaged in the slots of the unit (5-3).*

Mounting the unit in a Japanese car (6)

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Note

To prevent malfunction, install only with the supplied screws ④.

How to detach and attach the front panel (7)

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, be sure to press (OFF). Press (RELEASE), then slide the front panel to the left, and pull it off towards you.

7-B To attach

Attach part Ⓐ of the front panel to part Ⓑ of the unit as illustrated and push the left side into position until it clicks.

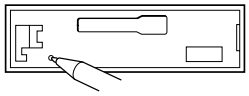
Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.

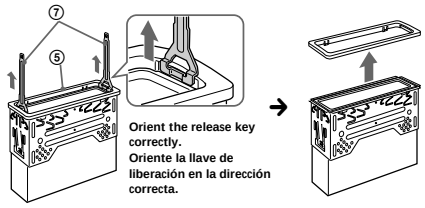
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

RESET button

When the installation and connections are completed, be sure to press the RESET button with a ballpoint pen, etc., after detaching the front panel.

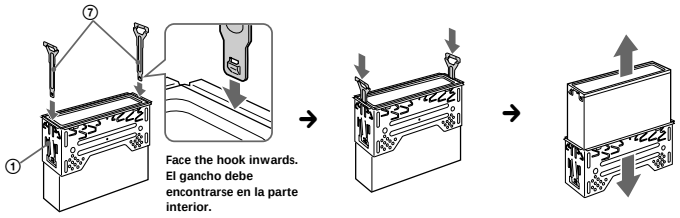


4 1



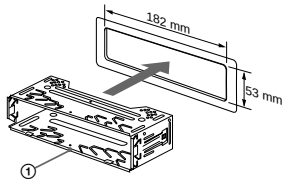
Orient the release key correctly.
Oriente la llave de liberación en la dirección correcta.

2

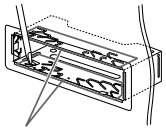


Face the hook inwards.
El gancho debe encontrarse en la parte interior.

5 1

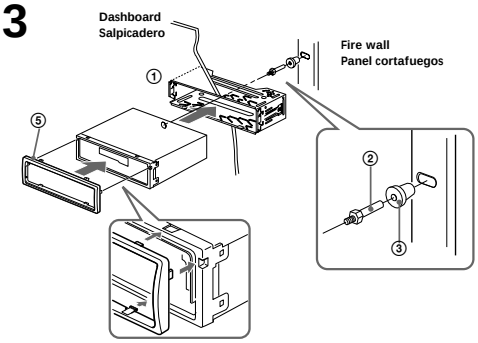


2



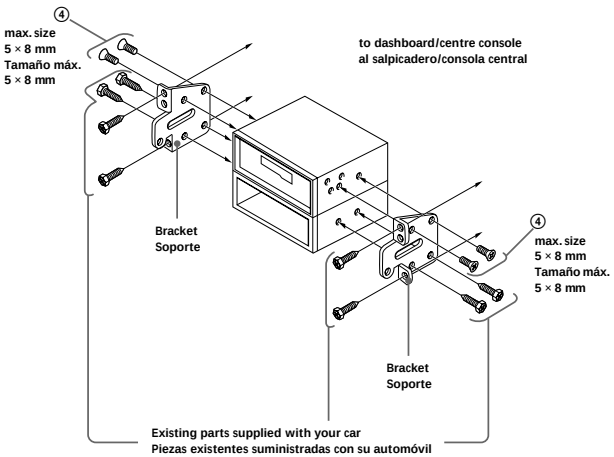
Claws
Uñas

3



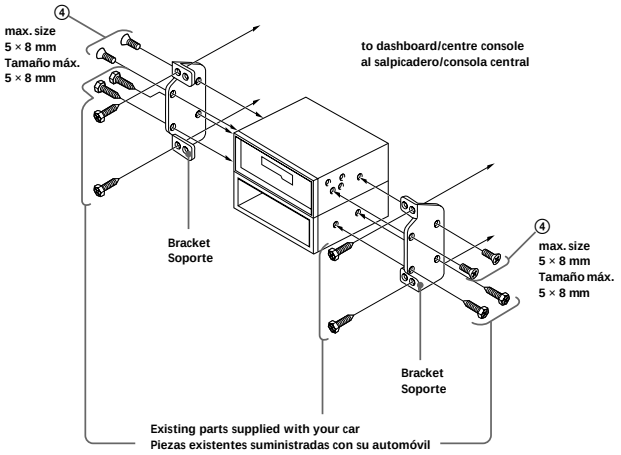
6 A

TOYOTA

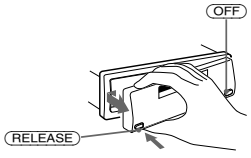


B

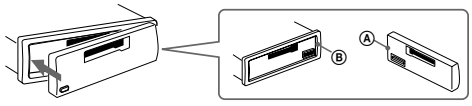
NISSAN



7 A



B



SECTION 2
DISASSEMBLY

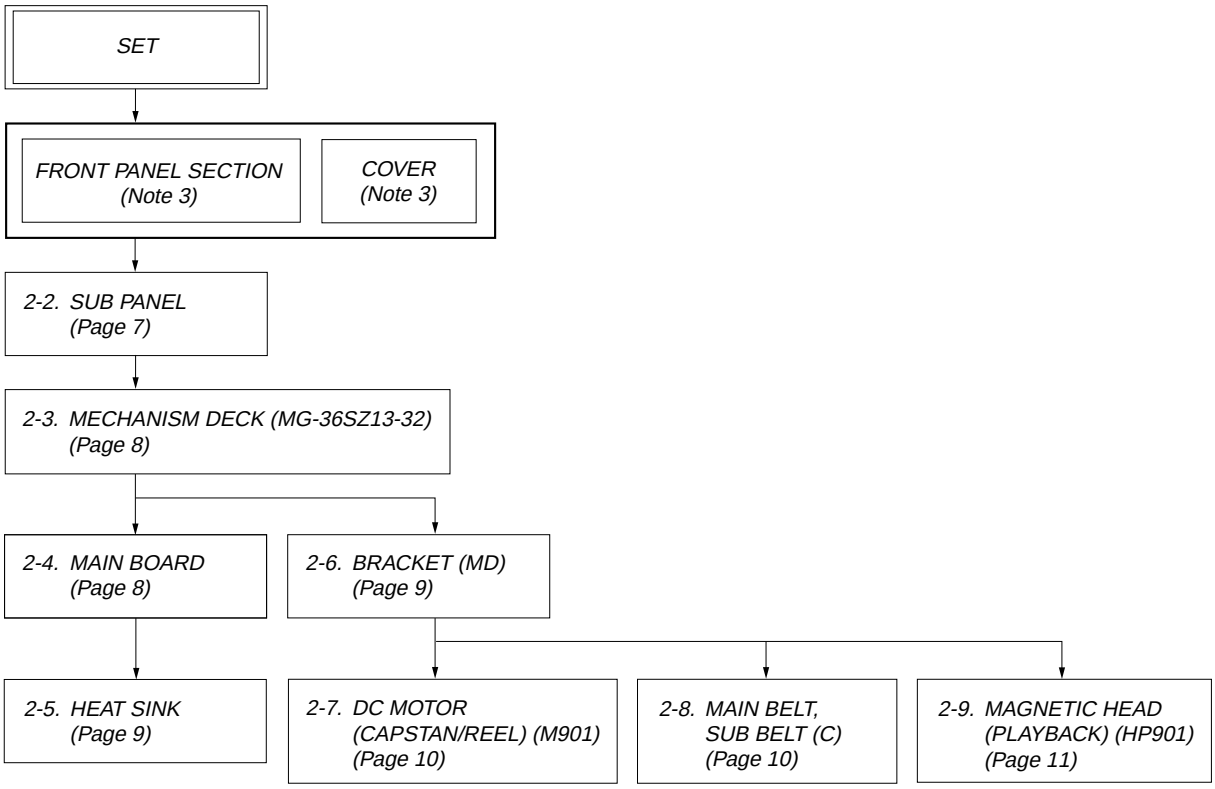
• This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

Note 1: *The process described in* ▣ *can be performed in any order.*

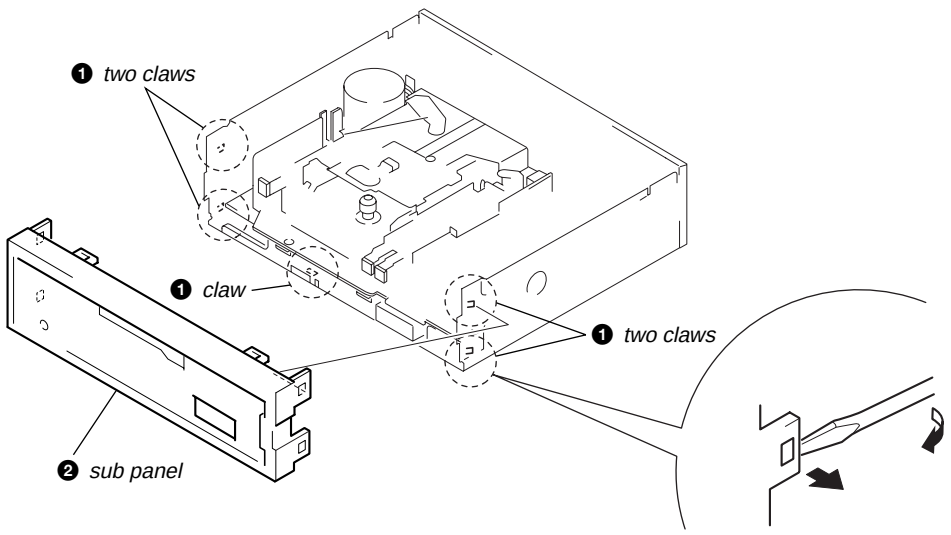
Note 2: *Without completing the process described in* ▣*, the next process can not be performed.*

Note 3: *Illustration of disassembly is omitted.*

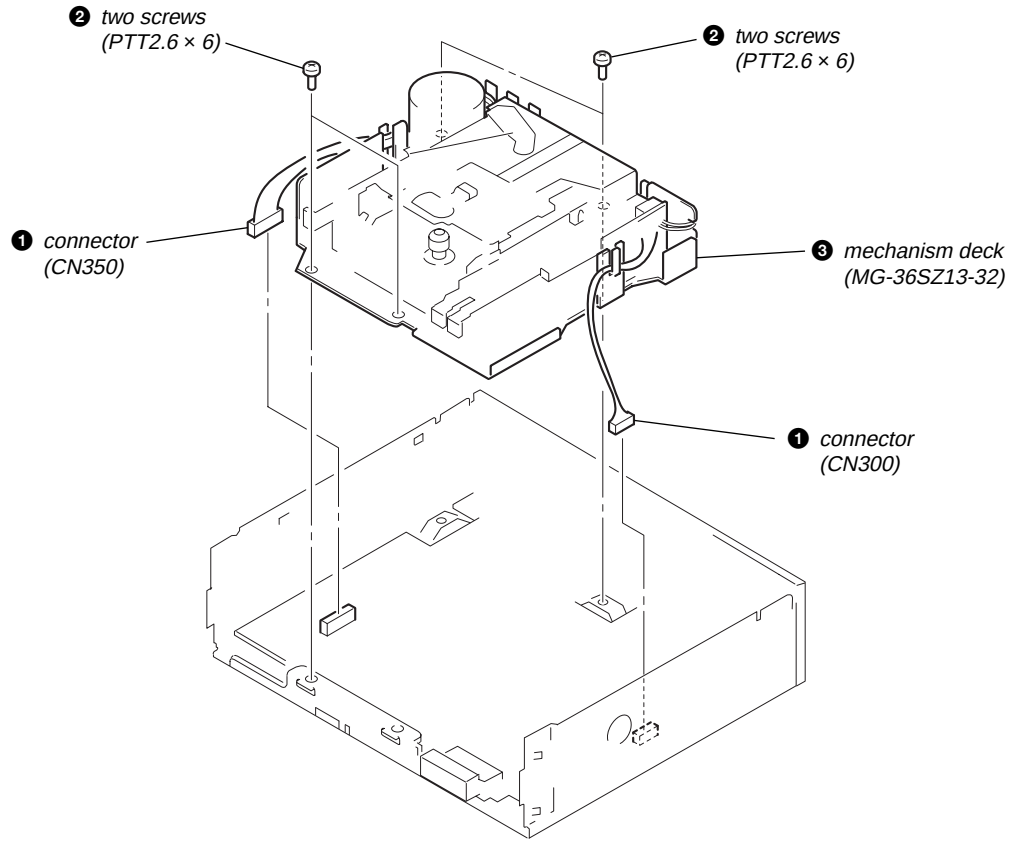


Note: Follow the disassembly procedure in the numerical order given.

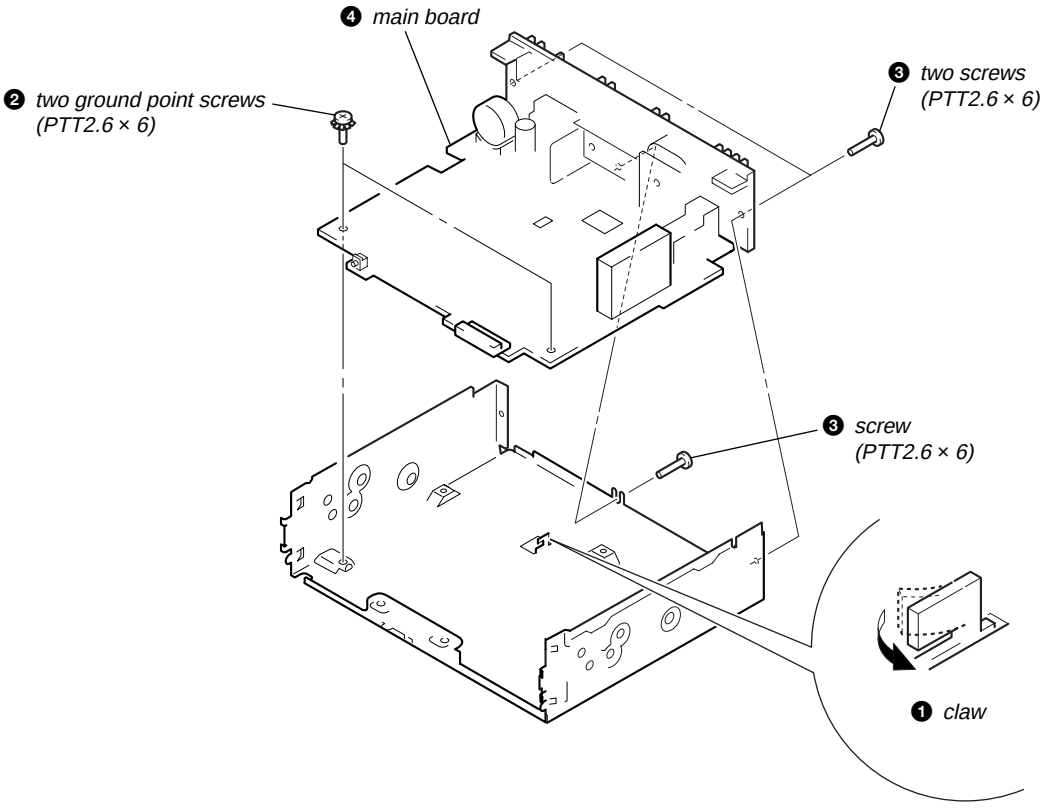
2-2. SUB PANEL



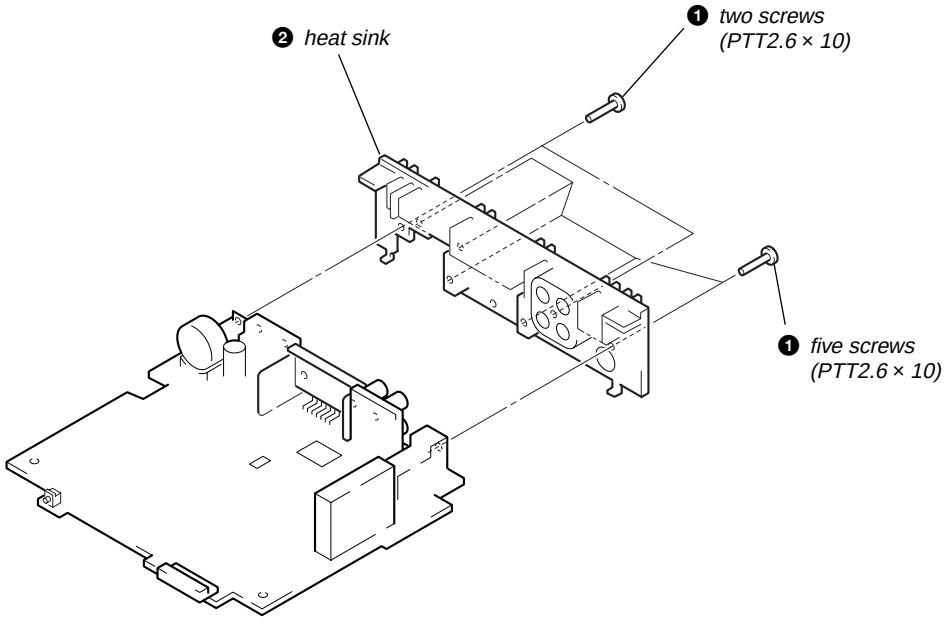
2-3. MECHANISM DECK (MG-36SZ13-32)



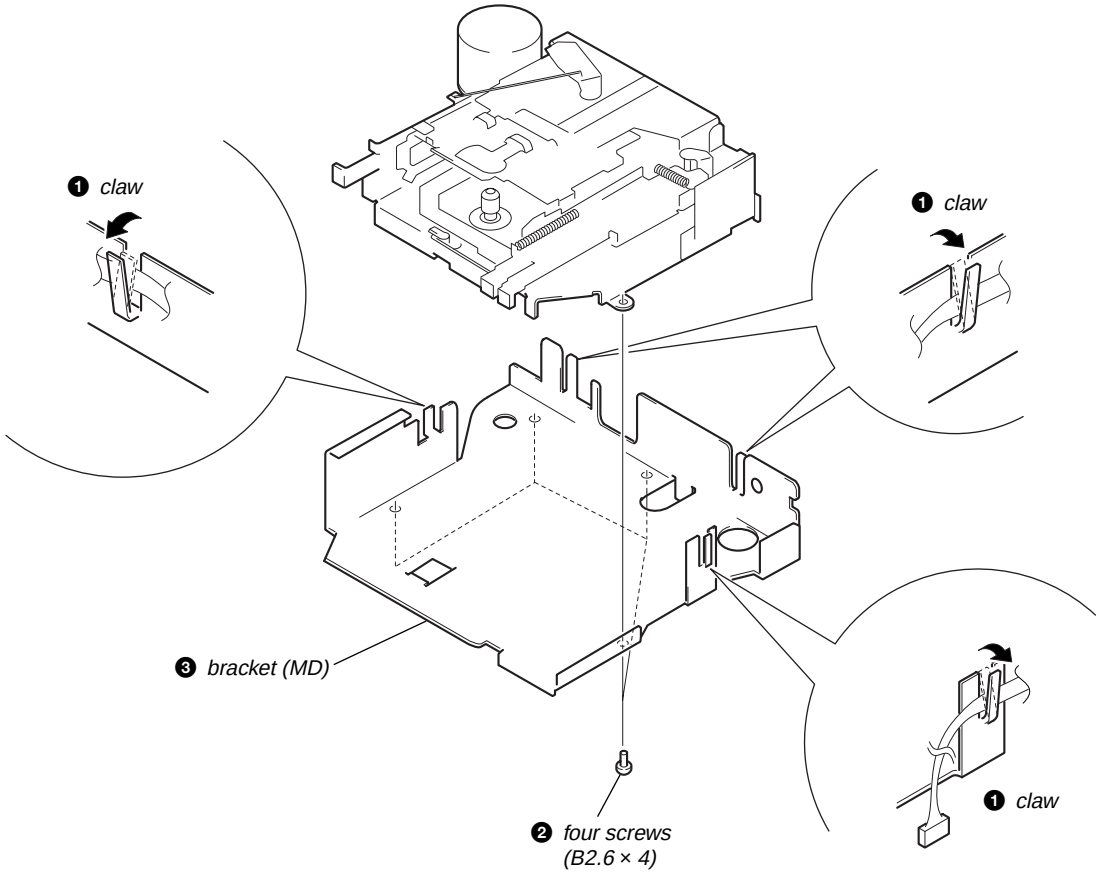
2-4. MAIN BOARD



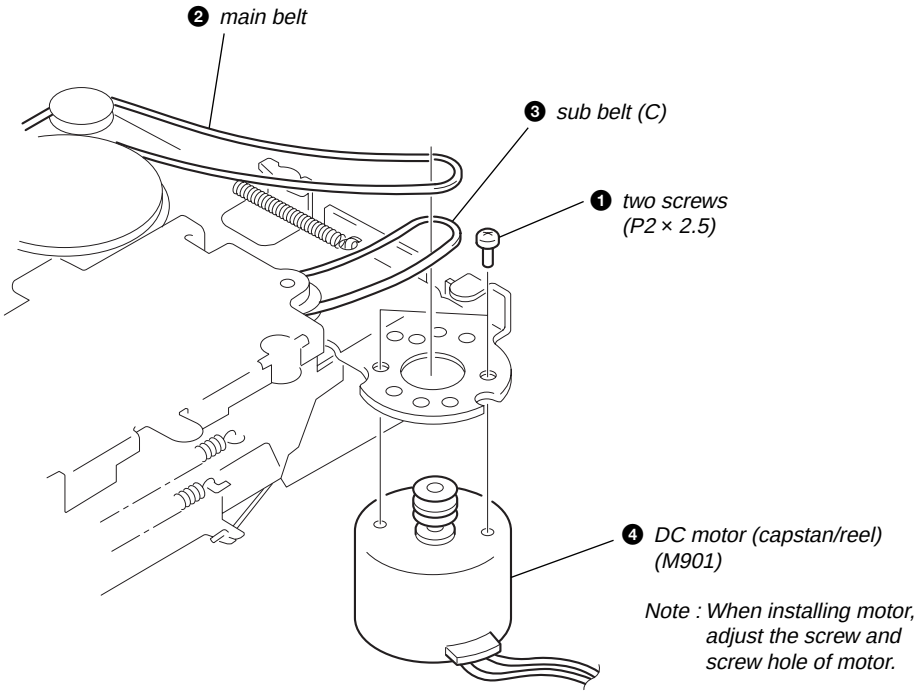
2-5. HEAT SINK



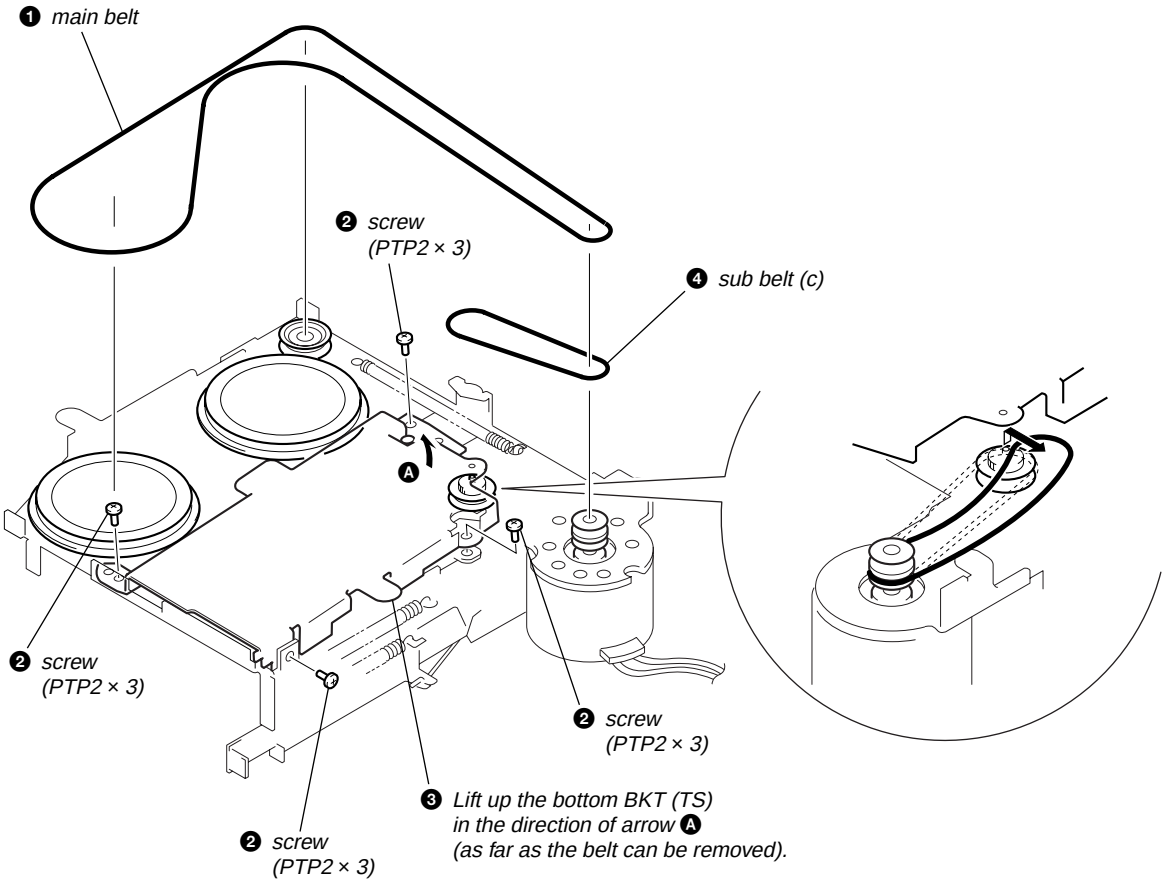
2-6. BRACKET (MD)



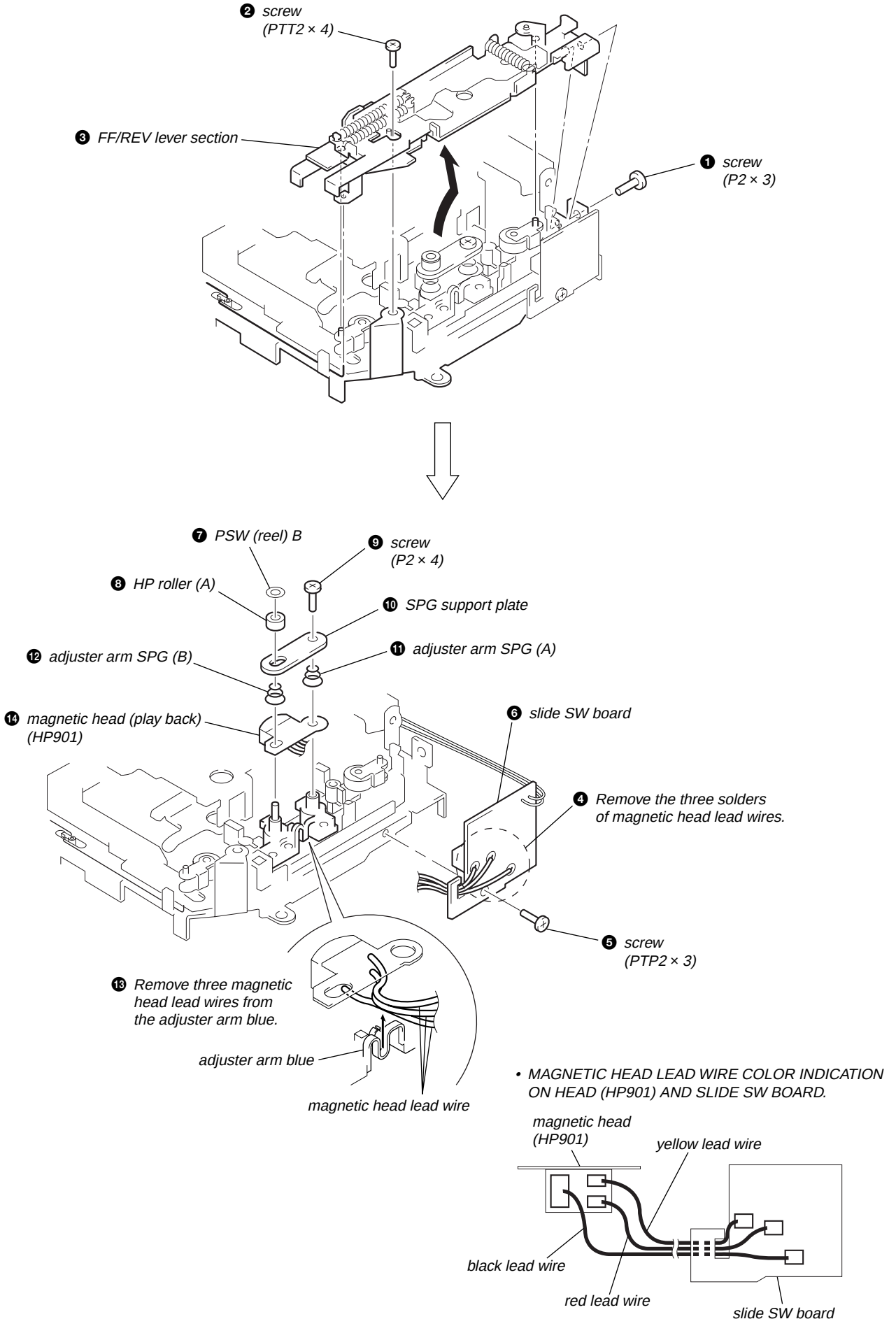
2-7. DC MOTOR (CAPSTAN/REEL) (M901)



2-8. MAIN BELT, SUB BELT (C)



2-9. MAGNETIC HEAD (PLAYBACK) (HP901)



SECTION 3
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head pinch roller
   rubber belt capstan
   idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

Note: With this set, it is not necessary to apply suitable locking compound to the parts after the azimuth adjustment.

• TORQUE MEASUREMENT

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.46 – 5.39 mN•m (25 – 55 g•cm) (0.35 – 0.76 oz•inch)
Forward Back Tension	CQ-102C	0.15 – 0.39 mN•m (1.5 – 4 g•cm) (0.02 – 0.06 oz•inch)
Reverse	CQ-102RC	2.46 – 5.39 mN•m (25 – 55 g•cm) (0.35 – 0.76 oz•inch)
Reverse Back Tension	CQ-102RC	0.15– 0.39 mN•m (1.5 – 4 g•cm) (0.02 – 0.06 oz•inch)
FF, REW	CQ-201B	4.91 – 14.70 mN•m (50 – 150 g•cm) (0.69 – 2.08 oz•inch)

• TAPE TENSION MEASUREMENT

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 5.89 mN•m (more than 60 g) (more than 2.12 oz)
Reverse	CQ-403R	

SECTION 4
ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION | 0 dB= 0.775 V

1. The adjustments should be performed in the order given in this service manual.
2. The adjustments should be performed for both L-CH and R-CH.

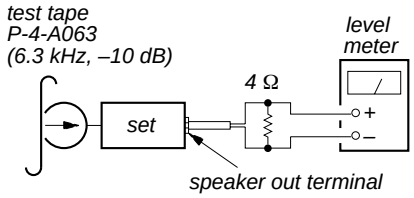
TEST TAPE

Type	Signal	Used for
P-4-A063	6.3 kHz, –10 dB	head azimuth adjustment
WS-48A	3 kHz, 0 dB	tape speed adjustment

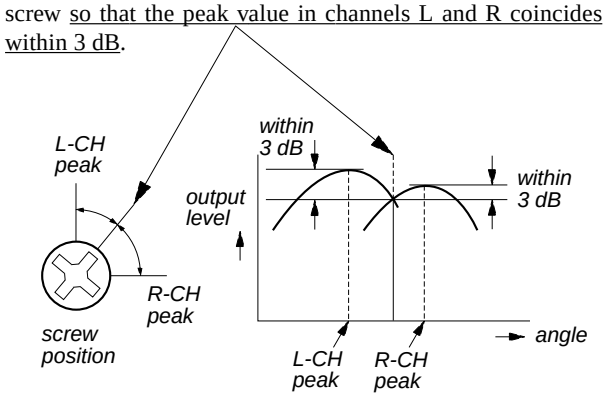
PB HEAD AZIMUTH ADJUSTMENT

Procedure:

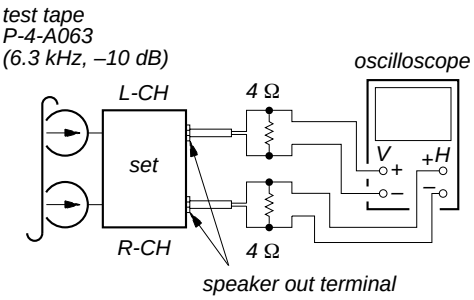
1. Put the set into the FWD PB mode.

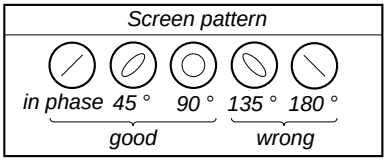


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 3 dB.



3. Check the phase in the FWD PB mode.

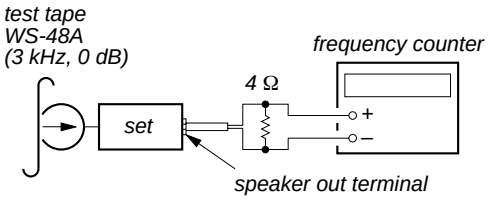




4. Repeat the above adjustment for the REV PB mode.
5. Check that output level difference between FWD PB mode and REV PB mode is within 4 dB.

Adjustment Location: PB head (See page 13)

TAPE SPEED ADJUSTMENT
Setting:



Procedure:
1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the frequency counter becomes in 3,015 Hz.

Specified Value: 2,940 to 3,090 Hz

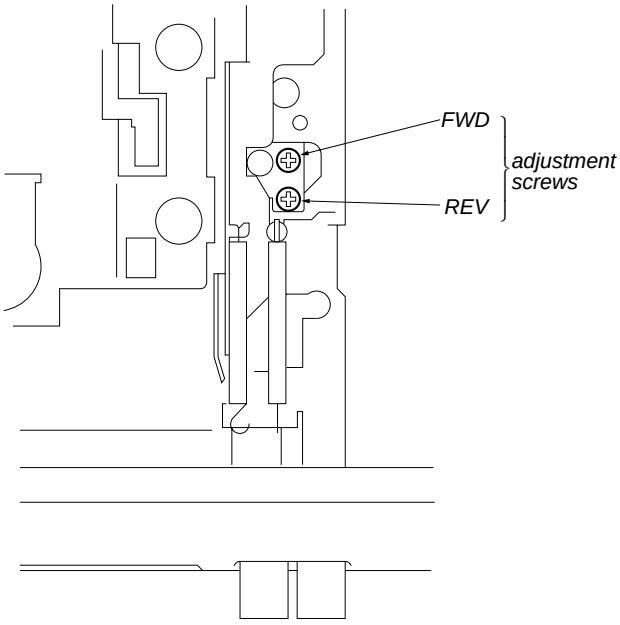
Adjustment Location: DC motor

TUNER SECTION

Tuner section adjustments are done automatically in this set.

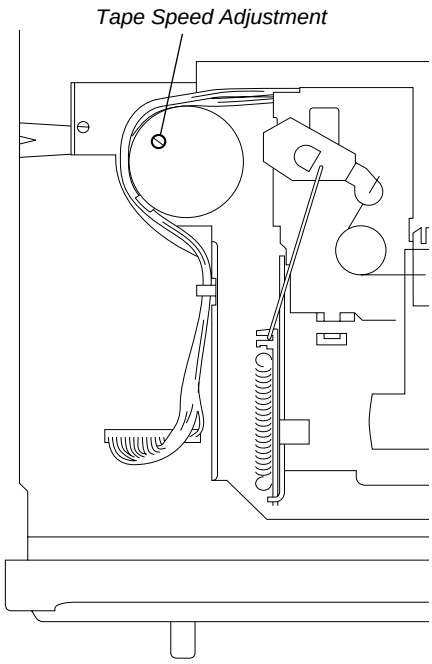
Adjustment Location: PB head

– Set Upper View –



Adjustment Location: DC motor

– Set Upper View –



SECTION 5
DIAGRAMS

5-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▬ : Pattern from the side which enables seeing.
- – – – – : Carbon pattern.

(The other layers' patterns are not indicated.)

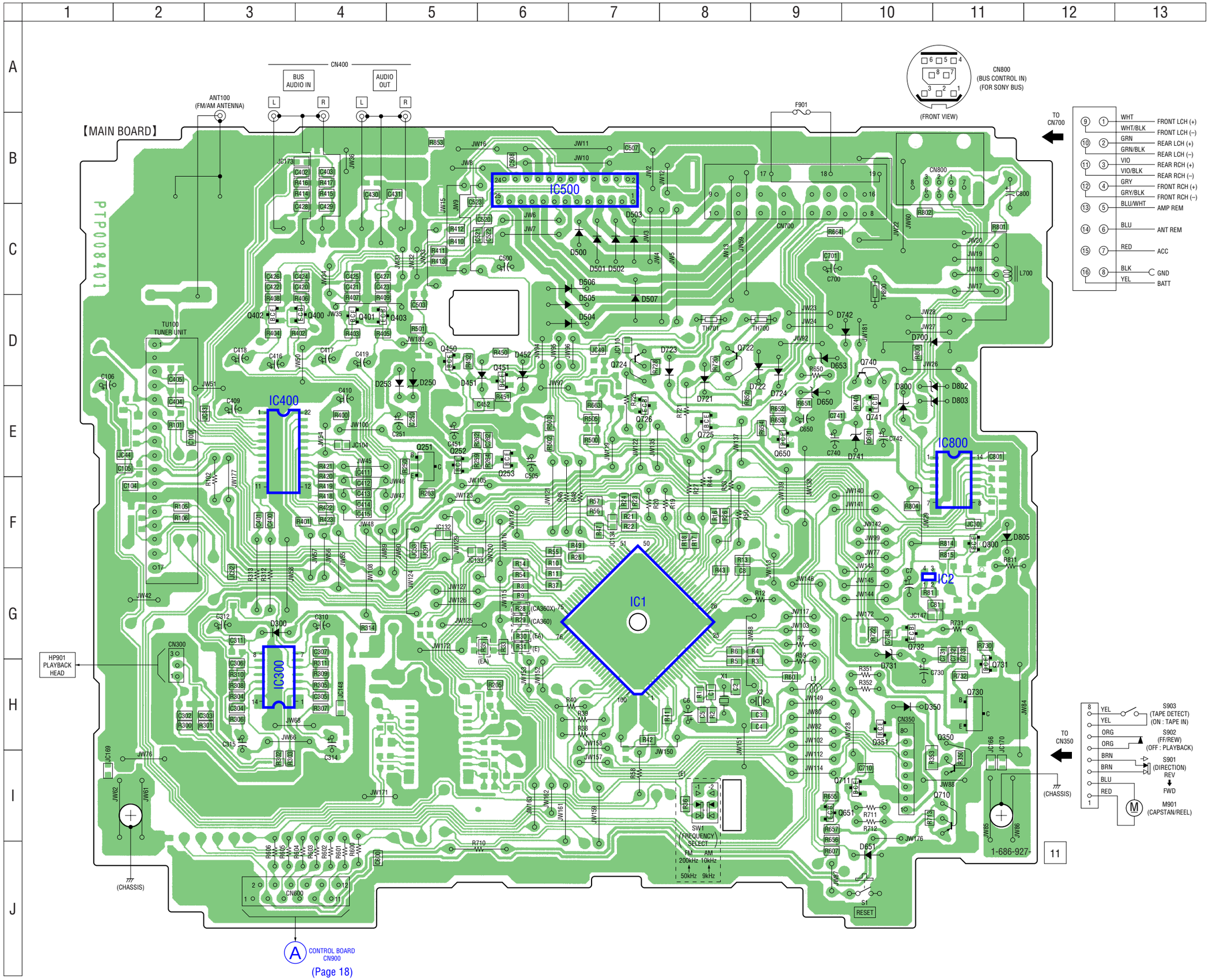
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  EA : Saudi Arabia model
- When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ⟨⟨ ⟩⟩ : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⟩ : TAPE PLAYBACK
  ⇨ : BUS AUDIO IN
- Abbreviation
  EA : Saudi Arabia model
- When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

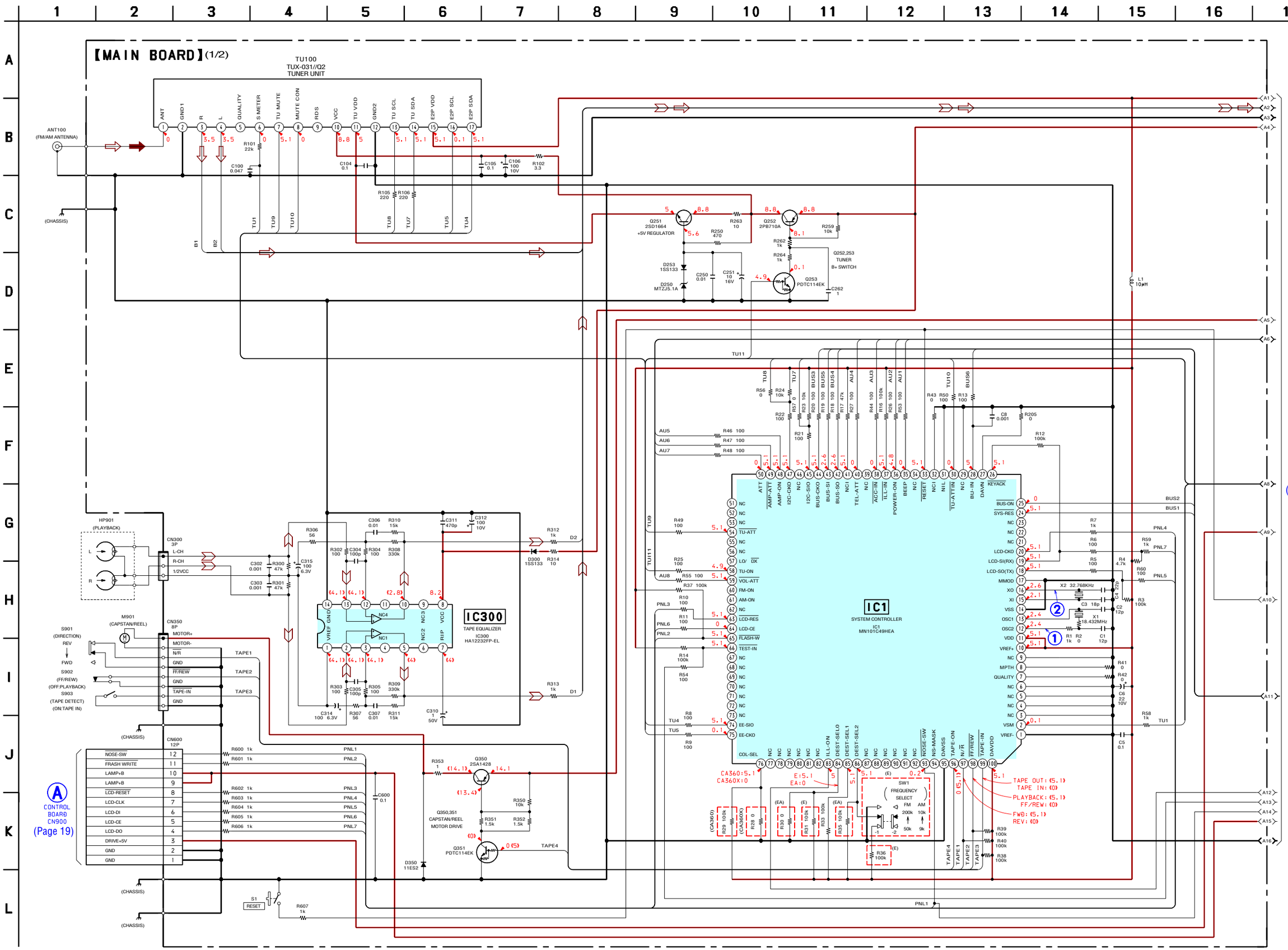
5-2. PRINTED WIRING BOARD – MAIN Board – Note: When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).



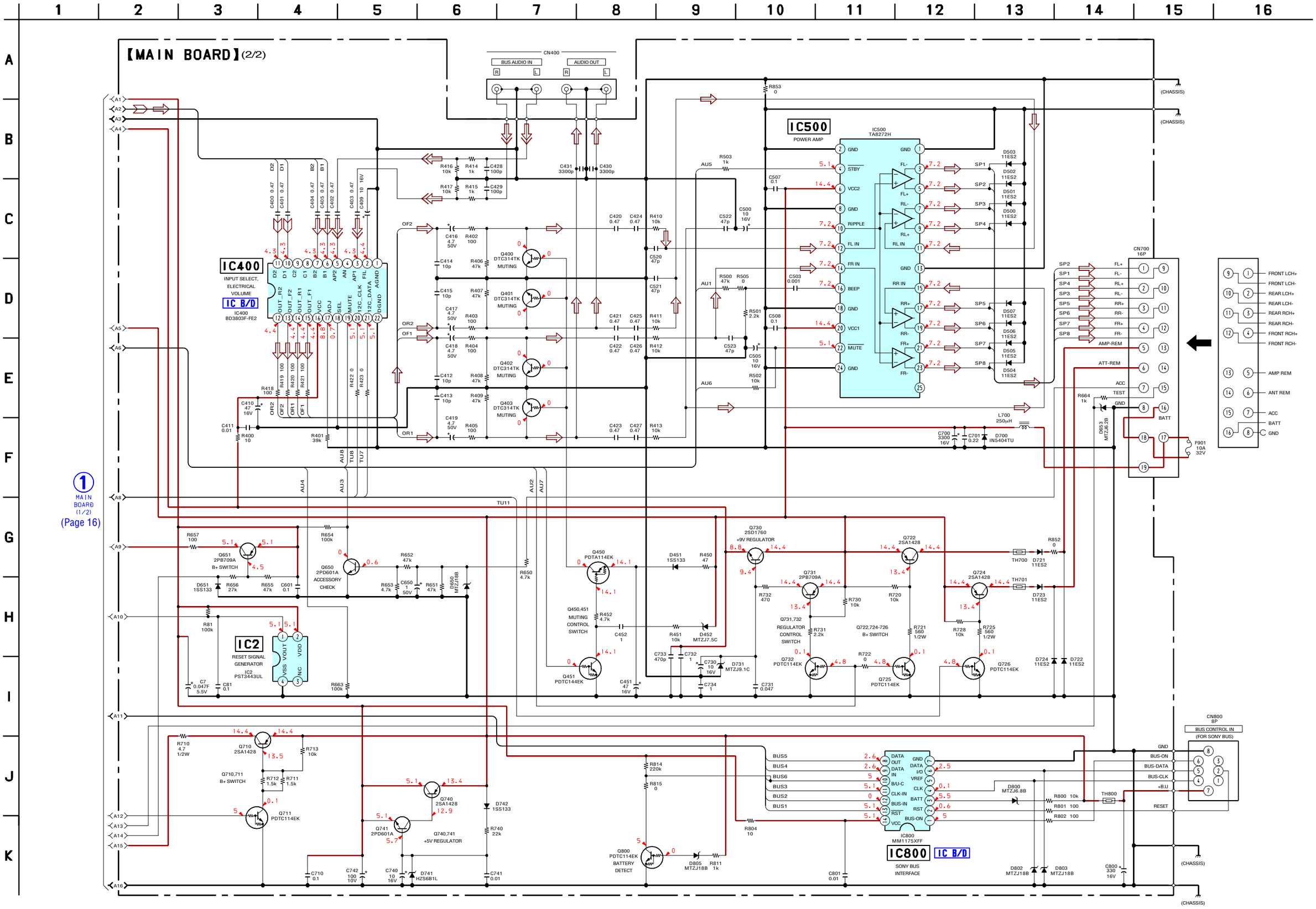
- **Semiconductor Location**

Ref. No.	Location
D250	D-5
D253	D-5
D300	G-3
D350	H-10
D451	D-6
D452	D-6
D500	C-7
D501	C-7
D502	C-7
D503	C-7
D504	D-7
D505	D-7
D506	C-7
D507	D-7
D650	E-9
D651	J-10
D653	D-9
D700	D-10
D721	D-8
D722	D-9
D723	D-8
D724	D-9
D731	H-11
D741	E-10
D742	D-10
D800	E-10
D802	E-11
D803	E-11
D805	F-11
IC1	G-7
IC2	G-11
IC300	H-3
IC400	E-3
IC500	B-6
IC800	E-11
Q251	E-5
Q252	E-5
Q253	E-6
Q350	I-11
Q351	H-10
Q400	D-4
Q401	D-4
Q402	D-3
Q403	D-4
Q450	D-5
Q451	D-6
Q650	E-9
Q651	I-9
Q710	I-11
Q711	I-10
Q722	D-8
Q724	D-7
Q725	E-8
Q726	E-7
Q730	H-11
Q731	G-11
Q732	G-10
Q740	D-10
Q741	E-10
Q800	F-11

5-3. SCHEMATIC DIAGRAM – MAIN Board (1/2) – • See page 20 for Waveforms. Note: When replacing the IC1, refer to servicing note (Page 2 "When replacing the IC1").

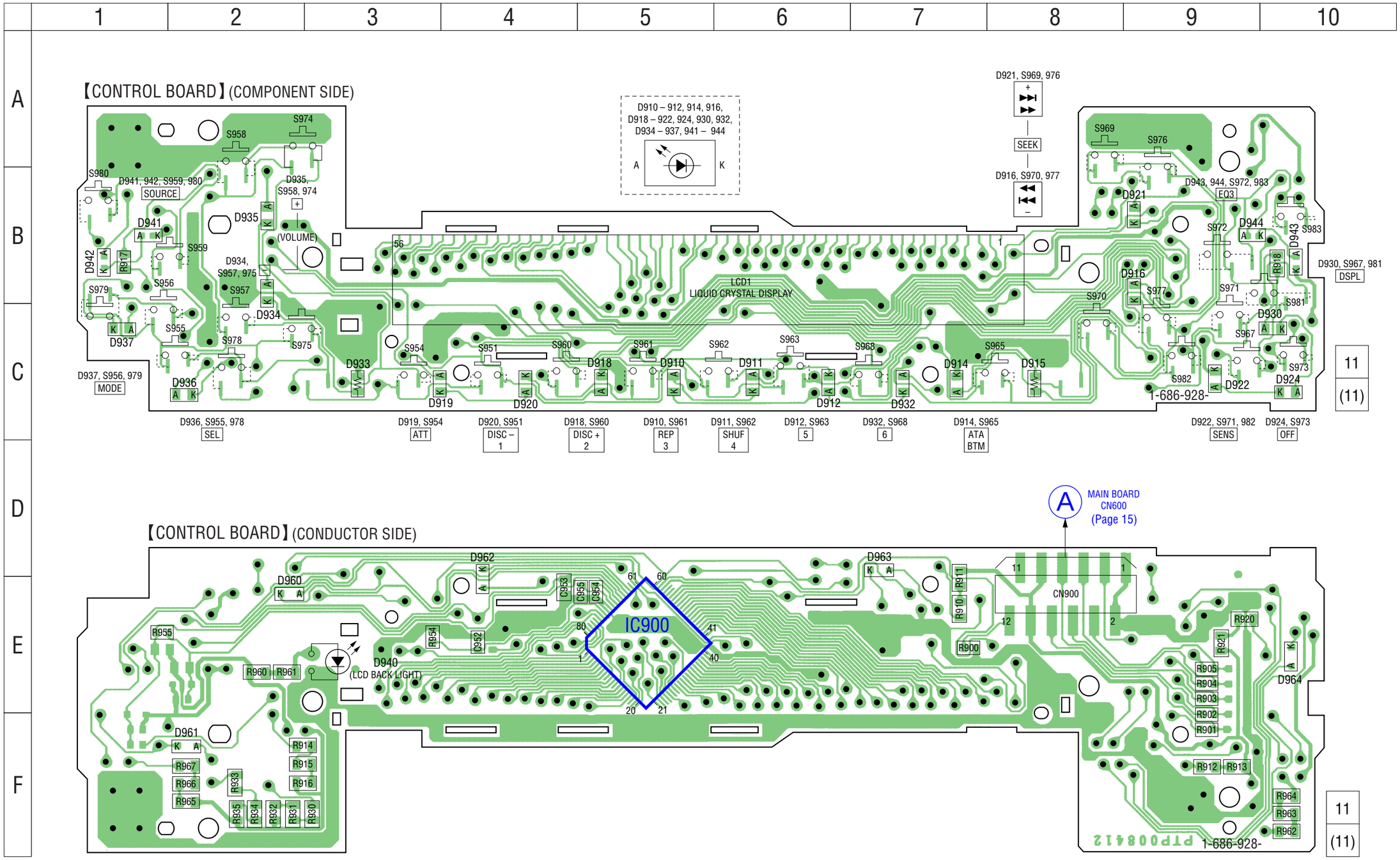


5-4. SCHEMATIC DIAGRAM – MAIN Board (2/2) – • See page 20 for IC Block Diagrams.



1 MAIN BOARD (1/2) (Page 16)

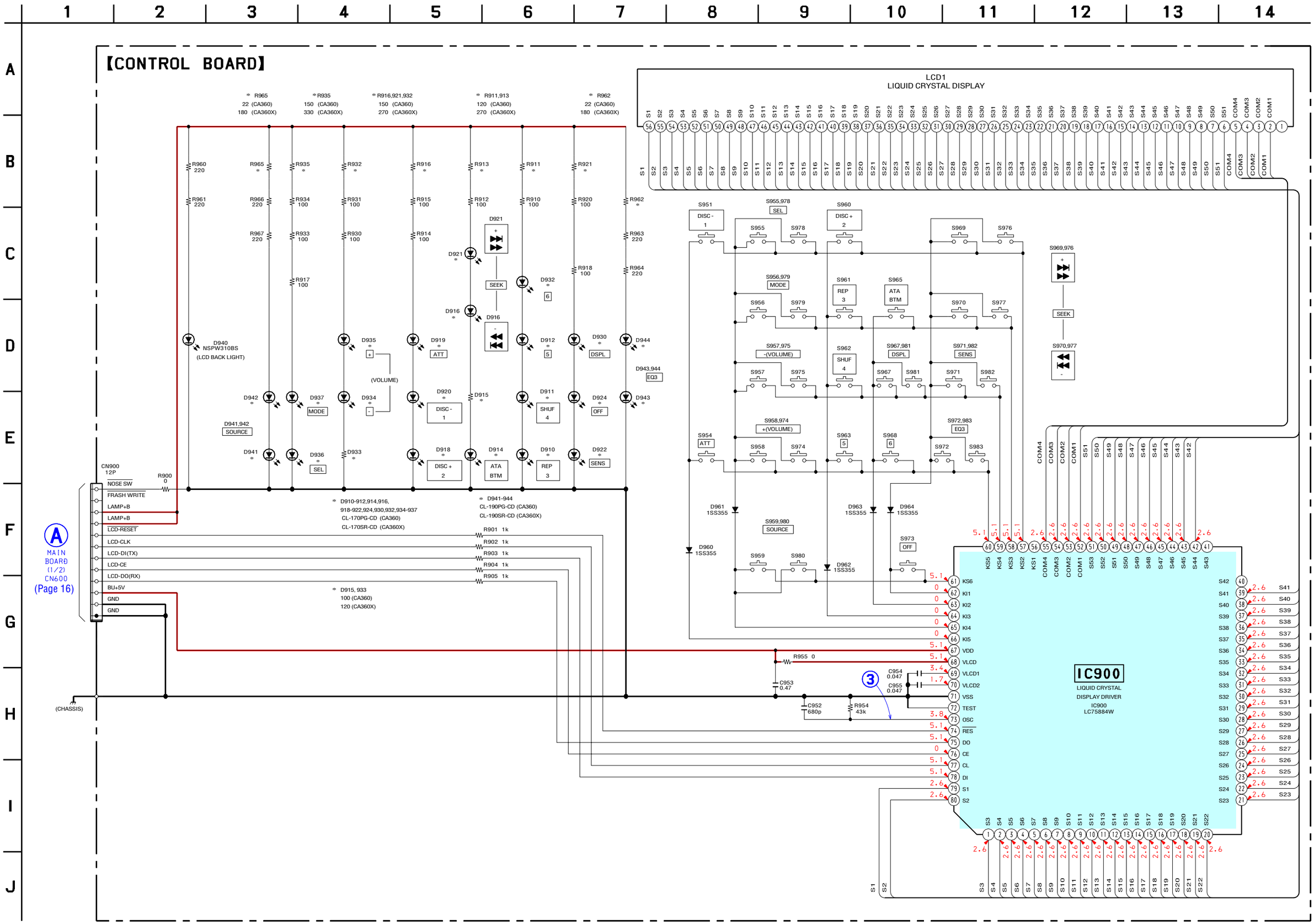
5-5. PRINTED WIRING BOARD – CONTROL Board –



- **Semiconductor Location**

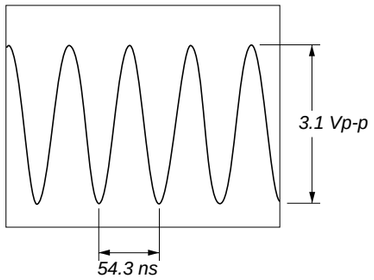
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D910	C-5	D924	C-10	D943	B-10
D911	C-6	D930	C-10	D944	B-9
D912	C-6	D932	C-7	D960	E-2
D914	C-7	D934	B-2	D961	F-2
D916	B-9	D935	B-2	D962	D-4
D918	C-5	D936	C-2	D963	D-7
D919	C-3	D937	C-1	D964	E-10
D920	C-4	D940	E-3		
D921	B-9	D941	B-1	IC900	E-5
D922	C-9	D942	B-1		

5-6. SCHEMATIC DIAGRAM – CONTROL Board – • See page 20 for Waveform.

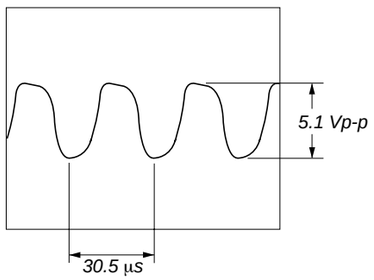


• **Waveforms**
– MAIN Board –

❶ IC1 ⑫ (OSC2)

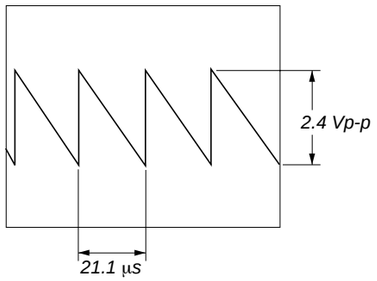


❷ IC1 ⑯ (XO)



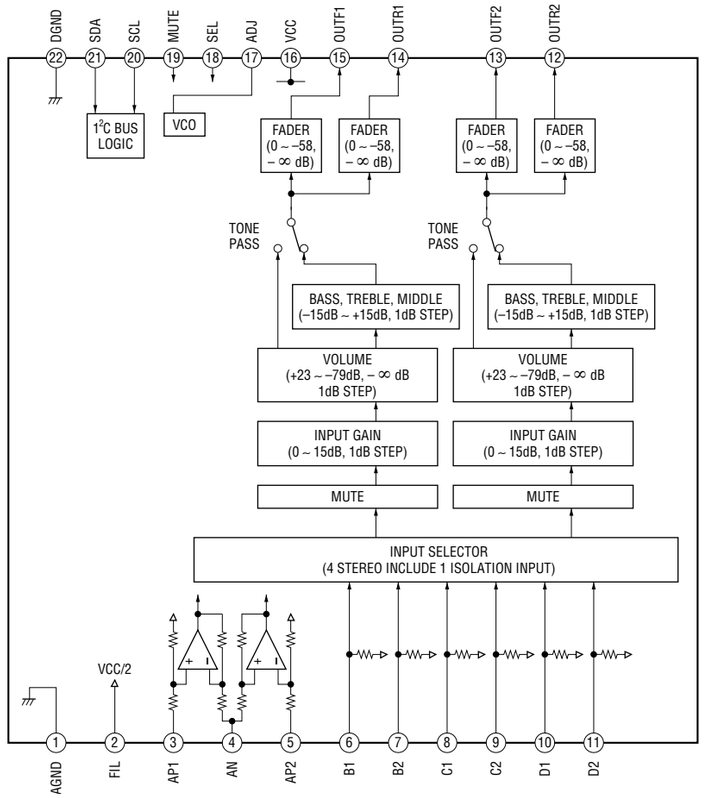
– CONTROL Board –

❸ IC900 ⑬ (OSC)

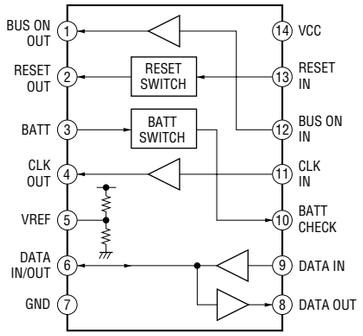


• **IC Block Diagrams**
– MAIN Board –

IC400 BD3803F-FE2



IC800 MM1175XFF



5-7. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC1 MN101C49HAS (SYSTEM CONTROLLER)

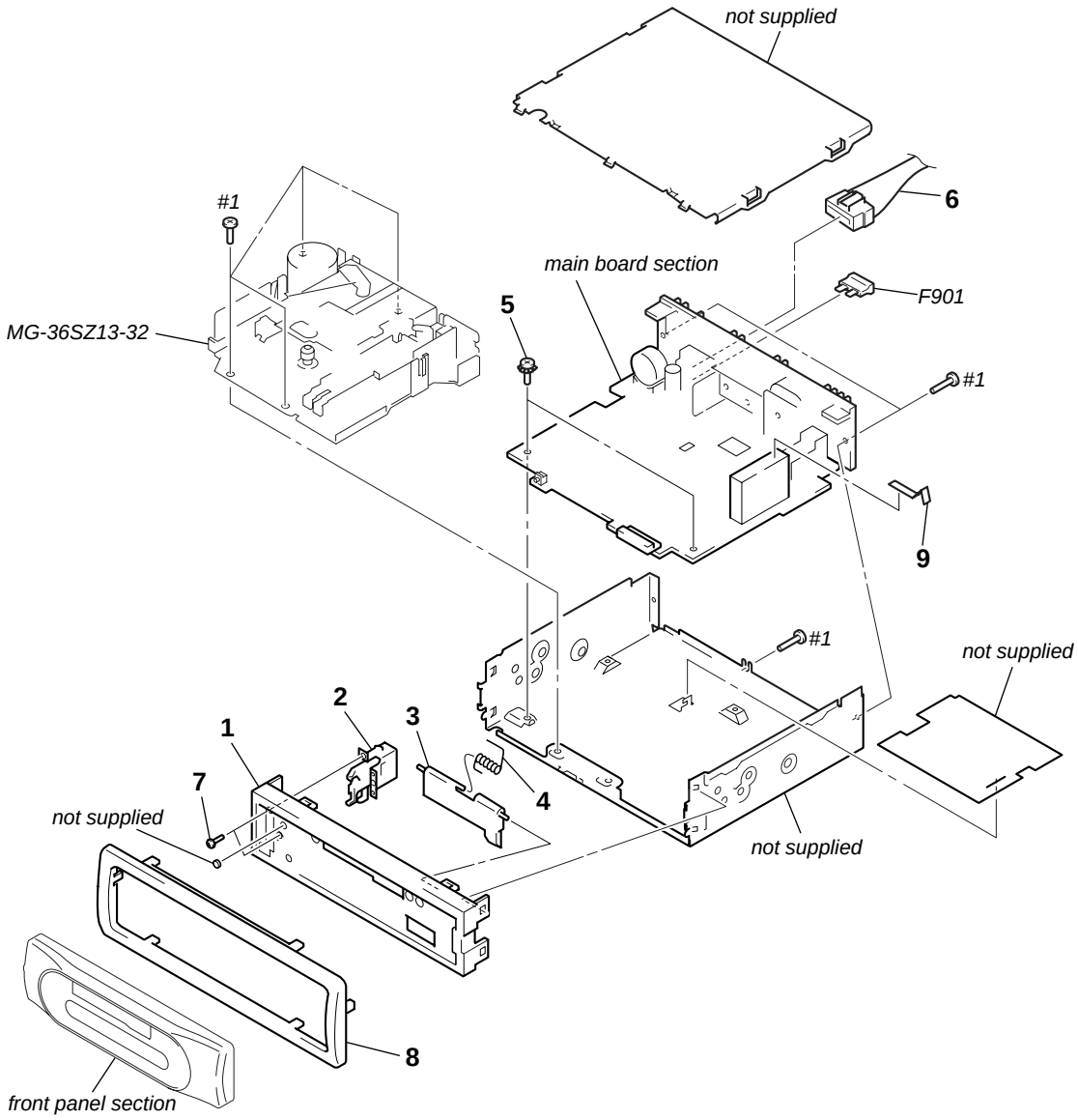
Pin No.	Pin Name	I/O	Description
1	VREF –	—	Reference voltage (0V) terminal (for A/D converter)
2	VSM	I	FM and AM signal meter voltage detection input from the tuner unit (A/D input)
3 to 6	NC	I	Not used
7	QUALITY	I	Not used
8	MPTH	I	Not used
9	NC	I	Not used
10	VREF +	—	Reference voltage (+5V) terminal (for A/D converter)
11	VDD	—	Power supply terminal (+5V)
12	OSC2	O	Main system clock output terminal (18.432 MHz)
13	OSC1	I	Main system clock input terminal (18.432 MHz)
14	VSS	—	Ground terminal
15	XI	I	Sub system clock input terminal (32.768 kHz)
16	XO	O	Sub system clock output terminal (32.768 kHz)
17	MMOD	I	Setting terminal for the single chip mode “L”: single chip (fixed at “L” in this set)
18	LCD-SO (TX)	O	LCD serial data output to the liquid crystal display driver
19	LCD-SI (RX)	I	LCD serial data input from the liquid crystal display driver
20	LCD-CKO	O	LCD serial transfer clock signal output to the liquid crystal display driver
21 to 23	NC	O	Not used
24	$\overline{\text{SYS-RES}}$	O	System reset signal output to the SONY bus interface “L”: reset
25	$\overline{\text{BUS-ON}}$	O	Bus interface control signal output to the SONY bus interface “L”: uni-link on
26	$\overline{\text{KEYACK}}$	I	Key acknowledge signal detection input from the liquid crystal display driver
27	DAVN	I	Not used
28	BU-IN	I	Battery detection signal input from the bus interface and battery detect circuit “L” is input at low voltage
29	NC	I	Not used
30	$\overline{\text{TU-ATTIN}}$	I	Tuner muting on/off control signal input from the tuner unit “L”: muting on
31, 32	NC	I	Not used
33	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator and reset switch “L”: reset “L”is input for several 100 msec after power on, then it changes to “H”
34	NC	O	Not used
35	BEEP	O	Beep sound drive signal output to the power amplifier “H”: beep on
36	POWER-ON	O	Main system power supply on/off control signal output “H”: power on
37	$\overline{\text{ILL-IN}}$	I	Illuminate line detection signal input terminal “L”: ill on Not used
38	$\overline{\text{ACC-IN}}$	I	Accessory detection signal input “L”: accessory on “H” is input for several 200 msec after accessory on, then it changes to “L”
39	NC	O	Not used
40	TEL-ATT	I	Telephone muting signal input terminal At input of “H”, the signal is attenuated by –20 dB Not used
41	NCI	I	Not used
42	BUS-SO	O	Serial data output to the SONY bus interface
43	BUS-SI	I	Serial data input from the SONY bus interface
44	BUS-CKO	O	Serial data transfer clock signal output to the SONY bus interface
45	I2C-SIO	I/O	Two-way data bus with the tuner unit and electrical volume
46	NC	O	Not used
47	I2C-CKO	O	Serial data transfer clock signal output to the tuner unit and electrical volume
48	AMP-ON	O	Standby on/off control signal output to the power amplifier “L”: standby mode, “H”: amplifier on
49	$\overline{\text{AMP-ATT}}$	O	Muting on/off control signal output to the power amplifier “L”: muting on

Pin No.	Pin Name	I/O	Description
50	ATT	O	Audio line muting on/off control signal output "H": muting on
51 to 53	NC	O	Not used
54	$\overline{\text{TU-ATT}}$	O	Tuner muting on/off control signal output to the tuner unit "L": muting on
55, 56	NC	O	Not used
57	LO/$\overline{\text{DX}}$	O	Local/DX selection signal output terminal "L": DX, "H": local Not used
58	TU-ON	O	Tuner system power supply on/off control signal output "H": tuner power on
59	$\overline{\text{VOL-ATT}}$	O	Electrical volume muting on/off control signal output to the electrical volume "L": muting on
60	FM-ON	O	FM system power supply on/off control signal output terminal "H": FM power on Not used
61	AM-ON	O	AM system power supply on/off control signal output terminal "H": AM power on Not used
62	NC	O	Not used
63	$\overline{\text{LCD-RES}}$	O	LCD reset signal output to the liquid crystal display driver "L": reset
64	LCD-CE	O	Chip enable signal output to the liquid crystal display driver "H" active
65	$\overline{\text{FLASH-W}}$	I	Internal flash memory data write mode detection signal input "L": data write mode Normally: fixed at "H"
66	$\overline{\text{TEST-IN}}$	I	Setting terminal for the test mode "L": test mode Normally: fixed at "H"
67 to 73	NC	O	Not used
74	EE-SIO	I/O	Two-way data bus with the tuner unit
75	EE-CKO	O	Serial data transfer clock signal output to the tuner unit
76	COL-SEL	I	Illumination color selection signal input "L": red illumination "H": green illumination (XR-CA360: fixed at "H" in this set, XR-CA360X: fixed at "L" in this set)
77 to 82	NC	O	Not used
83	ILL-ON	O	Power on/off control signal output of the illumination LED and LCD back light "H": power on
84	DEST-SEL0	I	Destination setting terminal (E model: fixed at "H" in this set, Saudi Arabia model: fixed at "L" in this set)
85	DEST-SEL1	I	Destination setting terminal (fixed at "H" in this set)
86	DEST-SEL2	I	Destination setting terminal (E model: input terminal for the ferquency select switch, Saudi Arabia model: fixed at "H" in this set)
87 to 92	NC	O	Not used
93	$\overline{\text{NOSE-SW}}$	I	Front panel block remove/attach detection signal input "L": front panel is attached
94	NS-MASK	O	Not used
95	DAVSS	—	Ground terminal (for D/A converter)
96	TAPE-ON	O	Capstan/reel motor drive signal output "H": motor on
97	N/$\overline{\text{R}}$	I	Tape direction switch input terminal "L": reverse direction, "H": forward direction
98	$\overline{\text{FF/REW}}$	I	FF/REW detection switch input terminal "L": FF/REW mode, "H": PLAYBACK mode
99	$\overline{\text{TAPE-IN}}$	I	Tape in detection switch input terminal "L": tape in
100	DAVDD	—	Power supply terminal (+5V) (for D/A converter)

SECTION 6
EXPLODED VIEWS

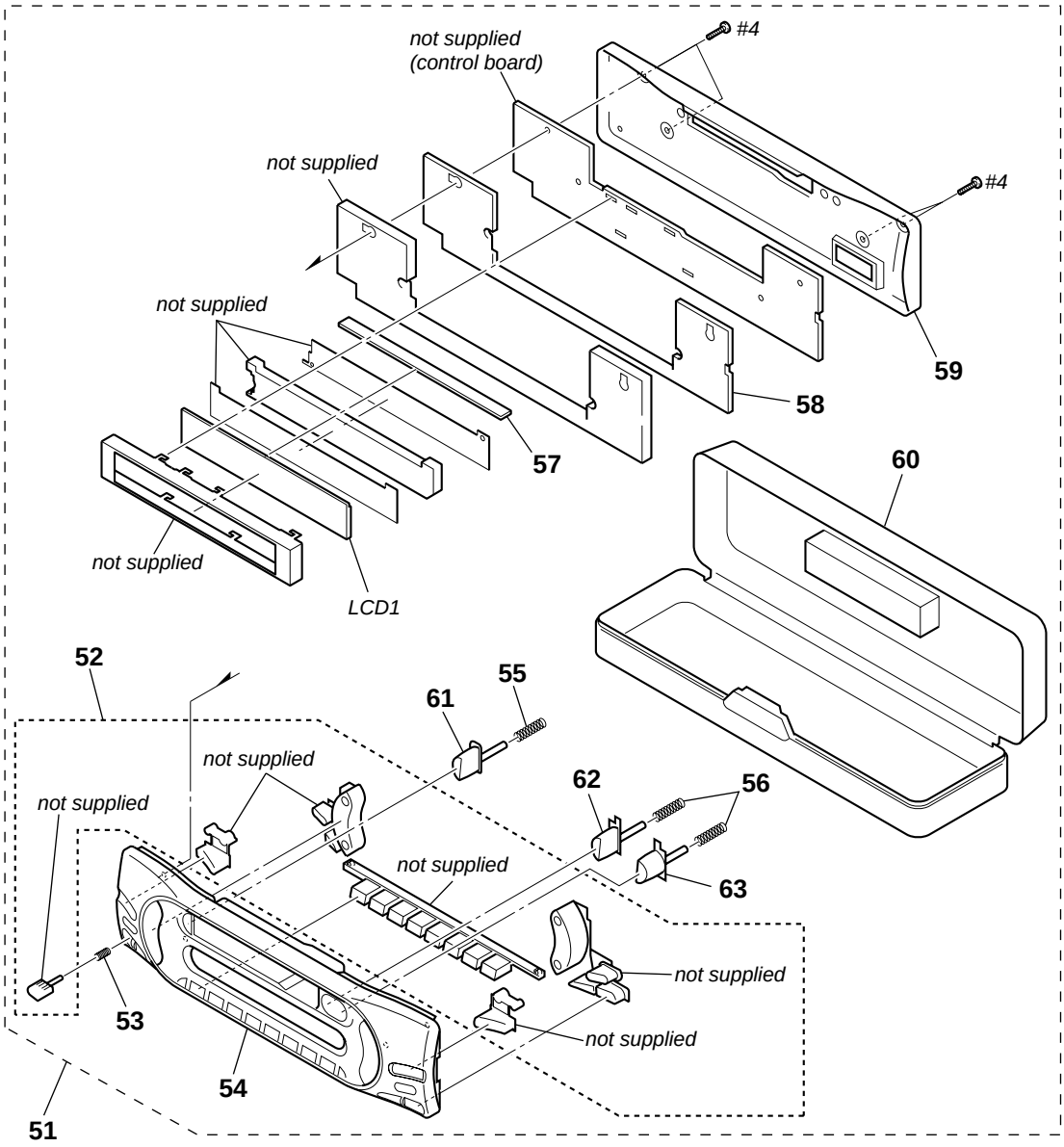
NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

6-1. GENERAL SECTION



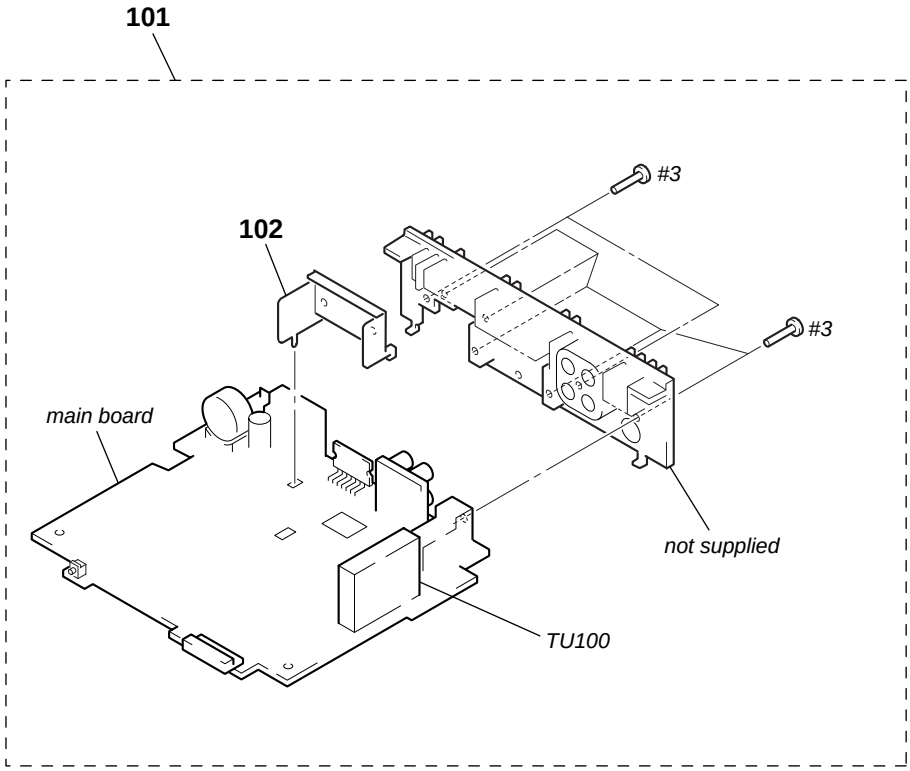
Ref. No.	Part No.	Description	Remark
1	3-246-741-01	PANEL, SUB	
2	X-3383-739-1	LOCK ASSY (S)	
3	3-041-581-11	DOOR, CASSETTE	
4	3-044-125-01	SPRING, TORSION	
5	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
6	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	
7	3-042-244-01	SCREW (T)	
8	3-246-758-01	COLLAR	
9	3-256-779-01	PLATE (C), GROUND	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	

6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-3337-197-A	PANEL ASSY, FRONT (CA360X)	
51	A-3337-363-A	PANEL ASSY, FRONT (CA360)	
52	X-3383-132-1	BUTTON KIT (SVX) ASSY	
53	3-231-816-01	SPRING (RELEASE)	
54	3-246-738-11	PANEL, FRONT (CA360X)	
54	3-246-738-21	PANEL, FRONT (CA360)	
55	3-029-327-01	SPRING (EJECT)	
56	3-375-372-01	SPRING (F/R)	
57	1-780-021-11	CONDUCTIVE BOARD, CONNECTION	
58	1-786-464-11	SWITCH, SHEET	
59	3-246-739-01	PANEL, FRONT BACK	
60	X-3378-490-2	CASE (PANEL) ASSY	
61	3-246-744-01	BUTTON (EJECT) (⏏)	
62	3-246-743-01	BUTTON (REW) (◀◀)	
63	3-246-742-01	BUTTON (FF) (▶▶)	
LCD1	1-805-131-11	DISPLAY PANEL, LIQUID CRYSTAL	
#4	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	

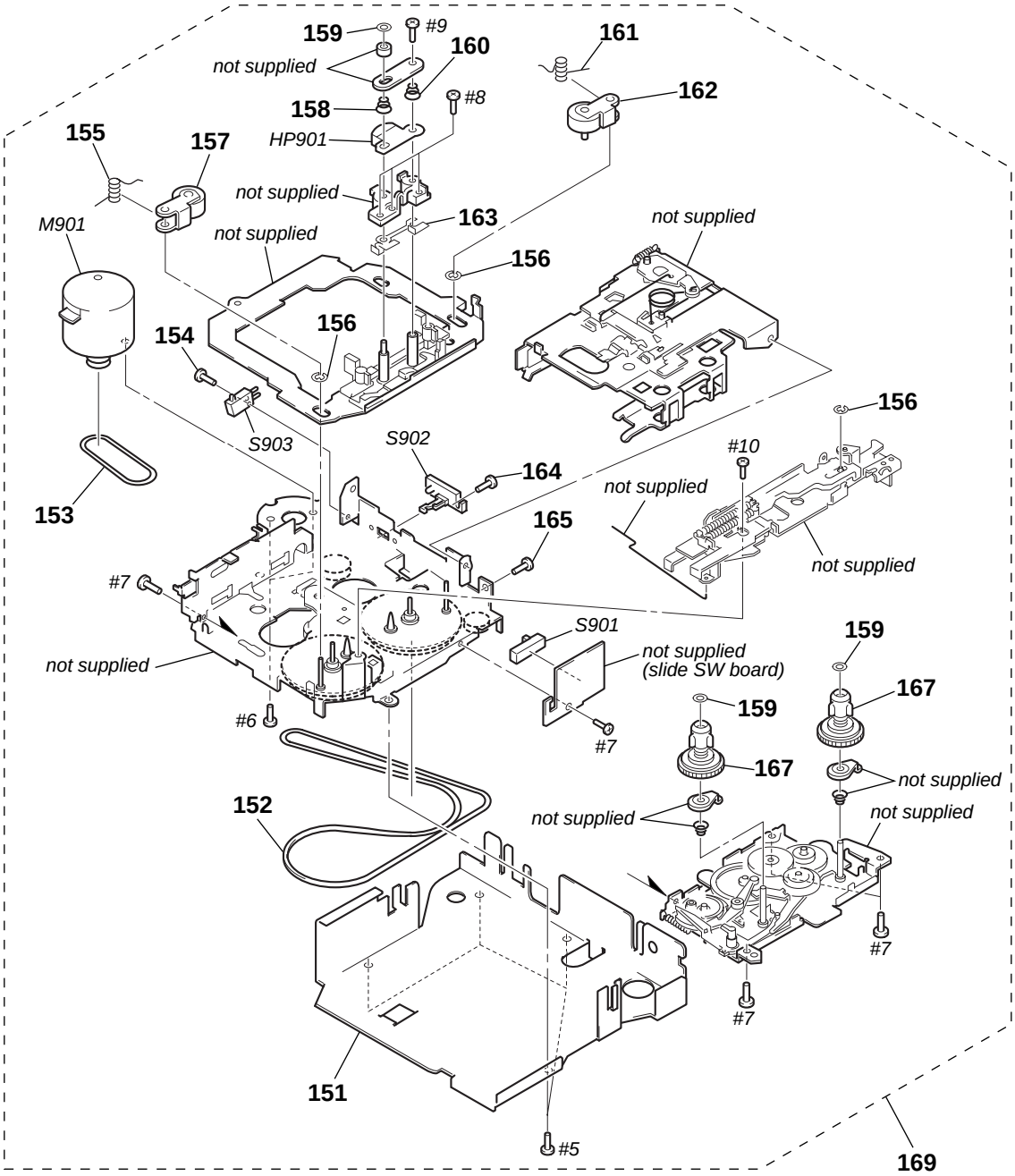
6-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	A-3274-648-A	MAIN BOARD, COMPLETE (CA360X)	
101	A-3274-708-A	MAIN BOARD, COMPLETE (CA360: E)	
101	A-3274-711-A	MAIN BOARD, COMPLETE (CA360: Saudi Arabia)	

Ref. No.	Part No.	Description	Remark
* 102	3-041-578-01	BRACKET (IC)	
TU100	A-3220-944-A	TUNER UNIT (TUX-031//Q2)	
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)	

6-4. MECHANISM DECK SECTION (MG-36SZ13-32)



Ref. No.	Part No.	Description	Remark
151	3-246-754-01	BRACKET (MD)	
152	3-045-943-01	MAIN BELT	
153	3-045-945-01	SUB BELT (C)	
154	3-045-953-01	+MACHINE SCREW M1.7X6	
155	3-045-940-01	PINCH ARM SPG (R)	
156	3-045-950-01	E-RING (DIA. 2)	
157	3-045-890-01	PINCH ARM (R)	
158	3-045-933-01	ADJUSTER ARM SPG (B)	
159	3-045-949-01	PSW (REEL) B	
160	3-045-932-01	ADJUSTER ARM SPG (A)	
161	3-045-939-01	PINCH ARM SPG (F)	
162	3-045-891-01	PINCH ARM (F)	
163	3-045-906-01	ADJUSTER SHIM (X)	
164	3-045-952-01	+MACHINE SCREW M1.7X4	

Ref. No.	Part No.	Description	Remark
165	3-713-786-51	SCREW +P 2X3	
167	3-045-893-01	REEL SPINDLE	
169	A-3220-926-B	MECHANISM DECK ASSY (MG-36SZ13-32)	
HP901	1-500-661-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-763-507-11	MOTOR, DC (CAPSTAN/REEL)	
S901	1-771-928-11	SWITCH, SLIDE (DIRECTION)	
S902	1-771-926-11	SWITCH, LEAF (FF/REW)	
S903	1-771-927-11	SWITCH, LEAF (TAPE DETECT)	
#5	7-621-775-10	SCREW +B 2.6X4	
#6	7-627-854-08	PRECISION SCREW +P 2X2.5 TYPE 3	
#7	7-685-101-11	SCREW +PTP 2X3 NON-SLIT	
#8	7-621-255-35	SCREW +P 2X5	
#9	7-621-772-18	SCREW +P 2X4	
#10	7-685-781-09	SCREW +PTT 2X4 (S)	

SECTION 7
ELECTRICAL PARTS LIST

CONTROL

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
- Abbreviation
  EA : Saudi Arabia model
- 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. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

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

Ref. No.	Part No.	Description	Remark
		CONTROL BOARD	
		**********	
	1-780-021-11	CONDUCTIVE BOARD, CONNECTION	
	1-786-464-11	SWITCH, SHEET	
		< CAPACITOR >	
C952	1-115-412-11	CERAMIC CHIP 680PF 5%	25V
C953	1-107-823-11	CERAMIC CHIP 0.47uF 10%	16V
C954	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C955	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
		< CONNECTOR >	
CN900	1-794-312-11	PIN, CONNECTOR 12P	
		< RESISTOR/DIODE >	
D910	8-719-033-14	LED CL-170PG-CD-T (REP, 3) (CA360)	
D910	8-719-078-39	LED CL-170SR-CD-T (REP, 3) (CA360X)	
D911	8-719-033-14	LED CL-170PG-CD-T (SHUF, 4) (CA360)	
D911	8-719-078-39	LED CL-170SR-CD-T (SHUF, 4) (CA360X)	
D912	8-719-033-14	LED CL-170PG-CD-T (5) (CA360)	
D912	8-719-078-39	LED CL-170SR-CD-T (5) (CA360X)	
D914	8-719-033-14	LED CL-170PG-CD-T (ATA, BTM) (CA360)	
D914	8-719-078-39	LED CL-170SR-CD-T (ATA, BTM) (CA360X)	
D915	1-216-025-11	RES-CHIP 100 5%	1/10W (CA360)
D915	1-216-027-00	RES-CHIP 120 5%	1/10W (CA360X)
D916	8-719-033-14	LED CL-170PG-CD-T (– ◀◀ I◀◀, SEEK)	(CA360)
D916	8-719-078-39	LED CL-170SR-CD-T (– ◀◀ I◀◀, SEEK)	(CA360X)
D918	8-719-033-14	LED CL-170PG-CD-T (DISC +, 2) (CA360)	
D918	8-719-078-39	LED CL-170SR-CD-T (DISC +, 2) (CA360X)	
D919	8-719-033-14	LED CL-170PG-CD-T (ATT) (CA360)	
D919	8-719-078-39	LED CL-170SR-CD-T (ATT) (CA360X)	
D920	8-719-033-14	LED CL-170PG-CD-T (DISC –, 1) (CA360)	
D920	8-719-078-39	LED CL-170SR-CD-T (DISC –, 1) (CA360X)	
D921	8-719-033-14	LED CL-170PG-CD-T (+ ▶▶ ▶▶I)	(CA360)
D921	8-719-078-39	LED CL-170SR-CD-T (+ ▶▶ ▶▶I)	(CA360X)
D922	8-719-033-14	LED CL-170PG-CD-T (SENS) (CA360)	
D922	8-719-078-39	LED CL-170SR-CD-T (SENS) (CA360X)	
D924	8-719-033-14	LED CL-170PG-CD-T (OFF) (CA360)	
D924	8-719-078-39	LED CL-170SR-CD-T (OFF) (CA360X)	
D930	8-719-033-14	LED CL-170PG-CD-T (DSPL)(CA360)	
D930	8-719-078-39	LED CL-170SR-CD-T (DSPL) (CA360X)	
D932	8-719-033-14	LED CL-170PG-CD-T (6) (CA360)	
D932	8-719-078-39	LED CL-170SR-CD-T (6) (CA360X)	
D933	1-216-025-11	RES-CHIP 100 5%	1/10W (CA360)
D933	1-216-027-00	RES-CHIP 120 5%	1/10W (CA360X)
D934	8-719-033-14	LED CL-170PG-CD-T (– (VOLUME)) (CA360)	
D934	8-719-078-39	LED CL-170SR-CD-T (– (VOLUME)) (CA360X)	
D935	8-719-033-14	LED CL-170PG-CD-T (+ (VOLUME)) (CA360)	
D935	8-719-078-39	LED CL-170SR-CD-T (+ (VOLUME)) (CA360X)	
D936	8-719-033-14	LED CL-170PG-CD-T (SEL) (CA360)	
D936	8-719-078-39	LED CL-170SR-CD-T (SEL) (CA360X)	
D937	8-719-033-14	LED CL-170PG-CD-T (MODE) (CA360)	
D937	8-719-078-39	LED CL-170SR-CD-T (MODE) (CA360X)	
D940	6-500-491-01	LED NSPW310BST (LCD BACK LIGHT)	
D941	8-719-038-07	LED CL-190PG-CD-T (SOURCE) (CA360)	
D941	8-719-061-16	LED CL-190SR-CD-T (SOURCE) (CA360X)	
D942	8-719-038-07	LED CL-190PG-CD-T (SOURCE) (CA360)	
D942	8-719-061-16	LED CL-190SR-CD-T (SOURCE) (CA360X)	
D943	8-719-038-07	LED CL-190PG-CD-T (EQ3) (CA360)	
D943	8-719-061-16	LED CL-190SR-CD-T (EQ3) (CA360X)	
D944	8-719-038-07	LED CL-190PG-CD-T (EQ3) (CA360)	
D944	8-719-061-16	LED CL-190SR-CD-T (EQ3) (CA360X)	
D960	8-719-988-61	DIODE 1SS355TE-17	
D961	8-719-988-61	DIODE 1SS355TE-17	
D962	8-719-988-61	DIODE 1SS355TE-17	
D963	8-719-988-61	DIODE 1SS355TE-17	
D964	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC900	8-759-657-06	IC LC75884W	
		< LIQUID CRYSTAL DISPLAY >	
LCD1	1-805-131-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< RESISTOR >	
R900	1-216-864-11	SHORT CHIP 0	
R901	1-216-821-11	METAL CHIP 1K 5%	1/10W
R902	1-216-821-11	METAL CHIP 1K 5%	1/10W
R903	1-216-821-11	METAL CHIP 1K 5%	1/10W

CONTROL MAIN

Ref. No.	Part No.	Description			Remark
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
R905	1-216-821-11	METAL CHIP	1K	5%	1/10W
R910	1-216-025-11	RES-CHIP	100	5%	1/10W
R911	1-216-027-00	RES-CHIP	120	5%	1/10W (CA360)
R911	1-216-814-11	METAL CHIP	270	5%	1/10W (CA360X)
R912	1-216-025-11	RES-CHIP	100	5%	1/10W
R913	1-216-027-00	RES-CHIP	120	5%	1/10W (CA360)
R913	1-216-814-11	METAL CHIP	270	5%	1/10W (CA360X)
R914	1-216-025-11	RES-CHIP	100	5%	1/10W
R915	1-216-025-11	RES-CHIP	100	5%	1/10W
R916	1-216-029-00	RES-CHIP	150	5%	1/10W (CA360)
R916	1-216-814-11	METAL CHIP	270	5%	1/10W (CA360X)
R917	1-216-809-11	METAL CHIP	100	5%	1/10W
R918	1-216-809-11	METAL CHIP	100	5%	1/10W
R920	1-216-025-11	RES-CHIP	100	5%	1/10W
R921	1-216-029-00	RES-CHIP	150	5%	1/10W (CA360)
R921	1-216-035-00	RES-CHIP	270	5%	1/10W (CA360X)
R930	1-216-025-11	RES-CHIP	100	5%	1/10W
R931	1-216-025-11	RES-CHIP	100	5%	1/10W
R932	1-216-029-00	RES-CHIP	150	5%	1/10W (CA360)
R932	1-216-035-00	RES-CHIP	270	5%	1/10W (CA360X)
R933	1-216-025-11	RES-CHIP	100	5%	1/10W
R934	1-216-025-11	RES-CHIP	100	5%	1/10W
R935	1-216-029-00	RES-CHIP	150	5%	1/10W (CA360)
R935	1-216-815-11	METAL CHIP	330	5%	1/10W (CA360X)
R954	1-218-731-11	METAL CHIP	43K	0.5%	1/10W
R955	1-216-864-11	SHORT CHIP	0		
R960	1-216-033-00	RES-CHIP	220	5%	1/10W
R961	1-216-033-00	RES-CHIP	220	5%	1/10W
R962	1-216-009-00	RES-CHIP	22	5%	1/10W (CA360)
R962	1-216-031-00	RES-CHIP	180	5%	1/10W (CA360X)
R963	1-216-033-00	RES-CHIP	220	5%	1/10W
R964	1-216-033-00	RES-CHIP	220	5%	1/10W
R965	1-216-009-00	RES-CHIP	22	5%	1/10W (CA360)
R965	1-216-812-11	METAL CHIP	180	5%	1/10W (CA360X)
R966	1-216-813-11	METAL CHIP	220	5%	1/10W
R967	1-216-813-11	METAL CHIP	220	5%	1/10W

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	A-3274-648-A	MAIN BOARD, COMPLETE (CA360X)
	A-3274-708-A	MAIN BOARD, COMPLETE (CA360: E)
	A-3274-711-A	MAIN BOARD, COMPLETE (EA)
	**********	
*	3-041-578-01	BRACKET (IC)
	7-685-794-09	SCREW +PTT 2.6X10 (S)
		< JACK >
ANT100	1-815-185-13	JACK (ANT) (FM/AM ANTENNA)
		< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C1	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C2	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-124-234-00	ELECT	22uF	20%	10V
C7	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C100	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (EA)
C104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C105	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C106	1-124-584-00	ELECT	100uF	20%	10V
C250	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C251	1-126-157-11	ELECT	10uF	20%	16V
C262	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C305	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C310	1-104-942-11	ELECT	1uF	20%	50V
C311	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C312	1-124-584-00	ELECT	100uF	20%	10V
C314	1-124-584-00	ELECT	100uF	20%	6.3V
C315	1-124-584-00	ELECT	100uF	20%	6.3V
C400	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C401	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C402	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C403	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C404	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C405	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C409	1-126-157-11	ELECT	10uF	20%	16V
C410	1-124-589-11	ELECT	47uF	20%	16V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C412	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C413	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C414	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C415	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C416	1-126-163-11	ELECT	4.7uF	20%	50V
C417	1-126-163-11	ELECT	4.7uF	20%	50V
C418	1-126-163-11	ELECT	4.7uF	20%	50V
C419	1-126-163-11	ELECT	4.7uF	20%	50V
C420	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C421	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C422	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C423	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C424	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V

Ref. No.	Part No.	Description			Remark
C425	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C426	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C427	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C430	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C431	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C451	1-124-589-11	ELECT	47uF	20%	16V
C452	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C500	1-126-157-11	ELECT	10uF	20%	16V
C503	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C505	1-126-157-11	ELECT	10uF	20%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C521	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C522	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C523	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C600	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C650	1-104-942-11	ELECT	1uF	20%	50V
C700	1-126-936-11	ELECT	3300uF	20%	16V
C701	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C710	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C730	1-126-157-11	ELECT	10uF	20%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C733	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C734	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C740	1-126-157-11	ELECT	10uF	20%	16V
C741	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C742	1-124-584-00	ELECT	100uF	20%	10V
C800	1-126-940-11	ELECT	330uF	20%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
* CN300	1-564-705-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN350	1-573-486-11	PIN, CONNECTOR (PC BOARD) 8P			
CN400	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT)			
CN600	1-794-311-21	PLUG, CONNECTOR 12P			
CN700	1-774-701-11	PIN, CONNECTOR 16P			
CN800	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
		< DIODE >			
D250	8-719-921-42	DIODE	MTZJ-5.1A		
D253	8-719-991-33	DIODE	1SS133T-77		
D300	8-719-991-33	DIODE	1SS133T-77		
D350	8-719-200-82	DIODE	11ES2		
D451	8-719-991-33	DIODE	1SS133T-77		
D452	8-719-110-03	DIODE	RD7.5ESB2		
D500	8-719-200-82	DIODE	11ES2		
D501	8-719-200-82	DIODE	11ES2		
D502	8-719-200-82	DIODE	11ES2		
D503	8-719-200-82	DIODE	11ES2		
D504	8-719-200-82	DIODE	11ES2		
D505	8-719-200-82	DIODE	11ES2		
D506	8-719-200-82	DIODE	11ES2		
D507	8-719-200-82	DIODE	11ES2		

Ref. No.	Part No.	Description		Remark
D650	8-719-110-49	DIODE	RD18ESB2	
D651	8-719-991-33	DIODE	1SS133T-77	
D653	8-719-109-93	DIODE	RD6.2ESB2	
D700	8-719-049-38	DIODE	1N5404TU	
D721	8-719-200-82	DIODE	11ES2	
D722	8-719-200-82	DIODE	11ES2	
D723	8-719-200-82	DIODE	11ES2	
D724	8-719-200-82	DIODE	11ES2	
D731	8-719-110-14	DIODE	RD9.1ESB3	
D741	8-719-935-39	DIODE	HZS6B1LTD	
D742	8-719-991-33	DIODE	1SS133T-77	
D800	8-719-109-97	DIODE	RD6.8ESB2	
D802	8-719-110-49	DIODE	RD18ESB2	
D803	8-719-110-49	DIODE	RD18ESB2	
D805	8-719-110-49	DIODE	RD18ESB2	
		< IC >		
IC1	6-803-178-01	IC	MN101C49HEA	
IC2	6-701-405-01	IC	PST3443UL	
IC300	6-802-510-01	IC	HA12232FP-EL	
IC400	6-703-302-02	IC	BD3803AF-FE2	
IC500	8-759-827-12	IC	TA8272H	
IC800	8-759-096-16	IC	MM1175XFF	
		< SHORT >		
JC30	1-216-864-11	SHORT CHIP	0	
JC44	1-216-864-11	SHORT CHIP	0	
JC49	1-216-864-11	SHORT CHIP	0	
JC52	1-216-864-11	SHORT CHIP	0	
JC53	1-216-864-11	SHORT CHIP	0	
JC83	1-216-864-11	SHORT CHIP	0	
JC91	1-216-864-11	SHORT CHIP	0	
JC104	1-216-864-11	SHORT CHIP	0	
JC110	1-216-864-11	SHORT CHIP	0	
JC132	1-216-864-11	SHORT CHIP	0	
JC133	1-216-864-11	SHORT CHIP	0	
JC134	1-216-864-11	SHORT CHIP	0	
JC147	1-216-864-11	SHORT CHIP	0	
JC148	1-216-864-11	SHORT CHIP	0	
JC166	1-216-864-11	SHORT CHIP	0	
JC169	1-216-864-11	SHORT CHIP	0	
JC170	1-216-864-11	SHORT CHIP	0	
JC173	1-216-864-11	SHORT CHIP	0	
		< COIL >		
L1	1-410-509-11	INDUCTOR	10uH	
L700	1-419-476-11	COIL, CHOKE	250uH	
		< TRANSISTOR >		
Q251	8-729-920-85	TRANSISTOR	2SD1664-QR	
Q252	8-729-049-85	TRANSISTOR	2PB710AR-115	
Q253	8-729-043-27	TRANSISTOR	PDTC114EK-115	
Q350	8-729-205-95	TRANSISTOR	2SA1428-Y	
Q351	8-729-043-27	TRANSISTOR	PDTC114EK-115	
Q400	8-729-920-21	TRANSISTOR	DTC314TK-T-146	
Q401	8-729-920-21	TRANSISTOR	DTC314TK-T-146	
Q402	8-729-920-21	TRANSISTOR	DTC314TK-T-146	

When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

MAIN

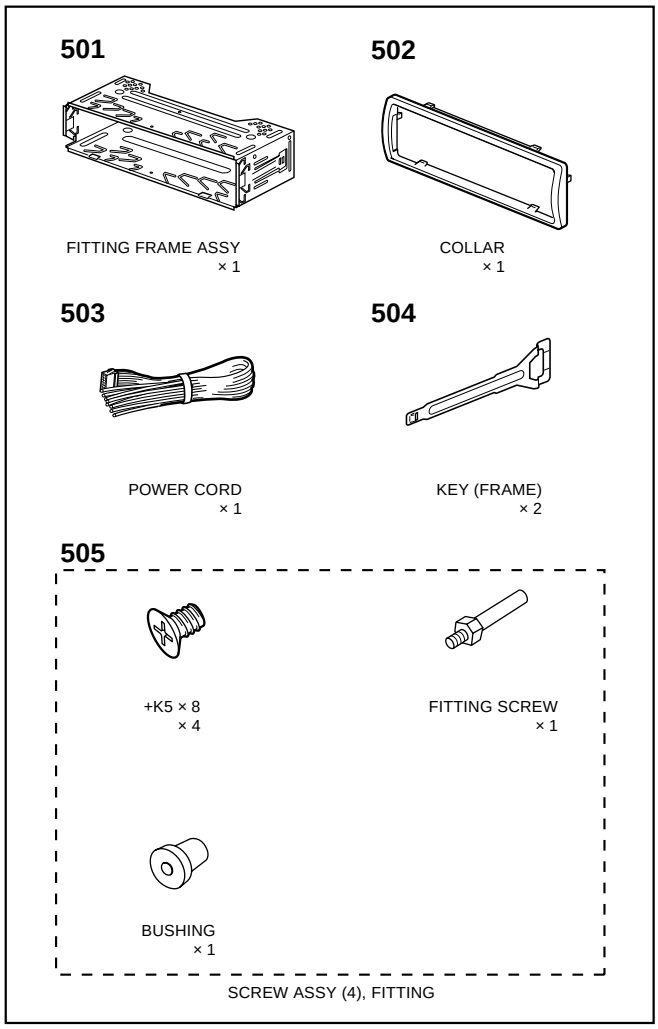
Ref. No.	Part No.	Description			Remark
Q403	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q450	8-729-043-32	TRANSISTOR	PDTA114EK-115		
Q451	8-729-043-29	TRANSISTOR	PDTC144EK-115		
Q650	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q651	8-729-216-22	TRANSISTOR	2SA1162-G		
Q710	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q711	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q722	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q724	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q725	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q726	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q730	8-729-921-48	TRANSISTOR	2SD1760F5-Q		
Q731	8-729-216-22	TRANSISTOR	2SA1162-G		
Q732	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q740	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q741	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q800	8-729-043-27	TRANSISTOR	PDTC114EK-115		
		< RESISTOR >			
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2	1-216-864-11	SHORT CHIP	0		
R3	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5	1-216-809-11	METAL CHIP	100	5%	1/10W
R6	1-216-809-11	METAL CHIP	100	5%	1/10W
R7	1-249-417-11	CARBON	1K	5%	1/4W
R8	1-216-809-11	METAL CHIP	100	5%	1/10W
R9	1-216-809-11	METAL CHIP	100	5%	1/10W
R10	1-216-809-11	METAL CHIP	100	5%	1/10W
R11	1-216-809-11	METAL CHIP	100	5%	1/10W
R12	1-249-441-11	CARBON	100K	5%	1/4W
R13	1-216-809-11	METAL CHIP	100	5%	1/10W
R14	1-216-845-11	METAL CHIP	100K	5%	1/10W
R16	1-216-845-11	METAL CHIP	100K	5%	1/10W
R17	1-216-841-11	METAL CHIP	47K	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-247-807-31	CARBON	100	5%	1/4W
R20	1-247-807-31	CARBON	100	5%	1/4W
R21	1-216-809-11	METAL CHIP	100	5%	1/10W
R22	1-216-809-11	METAL CHIP	100	5%	1/10W
R23	1-216-833-11	METAL CHIP	10K	5%	1/10W
R24	1-216-833-11	METAL CHIP	10K	5%	1/10W
R25	1-216-809-11	METAL CHIP	100	5%	1/10W
R26	1-216-809-11	METAL CHIP	100	5%	1/10W
R27	1-247-807-31	CARBON	100	5%	1/4W
R28	1-216-864-11	SHORT CHIP	0 (CA360X)		
R29	1-216-845-11	METAL CHIP	100K	5%	1/10W (CA360)
R30	1-216-864-11	SHORT CHIP	0 (EA)		
R31	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R33	1-216-845-11	METAL CHIP	100K	5%	1/10W
R35	1-216-845-11	METAL CHIP	100K	5%	1/10W (EA)
R36	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R37	1-216-845-11	METAL CHIP	100K	5%	1/10W
R38	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R39	1-249-441-11	CARBON	100K	5%	1/4W
R40	1-249-441-11	CARBON	100K	5%	1/4W
R41	1-216-864-11	SHORT CHIP	0		
R42	1-216-864-11	SHORT CHIP	0		
R43	1-216-864-11	SHORT CHIP	0		
R44	1-247-807-31	CARBON	100	5%	1/4W
R46	1-247-807-31	CARBON	100	5%	1/4W
R47	1-216-809-11	METAL CHIP	100	5%	1/10W
R48	1-247-807-31	CARBON	100	5%	1/4W
R49	1-216-809-11	METAL CHIP	100	5%	1/10W
R50	1-247-807-31	CARBON	100	5%	1/4W
R53	1-247-807-31	CARBON	100	5%	1/4W
R54	1-216-809-11	METAL CHIP	100	5%	1/10W
R55	1-216-809-11	METAL CHIP	100	5%	1/10W
R56	1-216-864-11	SHORT CHIP	0		
R57	1-216-864-11	SHORT CHIP	0		
R58	1-249-417-11	CARBON	1K	5%	1/4W
R59	1-249-417-11	CARBON	1K	5%	1/4W
R60	1-216-809-11	METAL CHIP	100	5%	1/10W
R81	1-216-845-11	METAL CHIP	100K	5%	1/10W
R101	1-216-837-11	METAL CHIP	22K	5%	1/10W
R102	1-249-387-11	CARBON	3.3	5%	1/4W
R105	1-216-813-11	METAL CHIP	220	5%	1/10W
R106	1-216-813-11	METAL CHIP	220	5%	1/10W
R205	1-216-864-11	SHORT CHIP	0		
R250	1-216-817-11	METAL CHIP	470	5%	1/10W
R259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-821-11	METAL CHIP	1K	5%	1/10W
R263	1-216-797-11	METAL CHIP	10	5%	1/10W
R264	1-216-821-11	METAL CHIP	1K	5%	1/10W
R300	1-216-841-11	METAL CHIP	47K	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-806-11	METAL CHIP	56	5%	1/10W
R307	1-216-806-11	METAL CHIP	56	5%	1/10W
R308	1-216-851-11	METAL CHIP	330K	5%	1/10W
R309	1-216-851-11	METAL CHIP	330K	5%	1/10W
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W
R311	1-216-835-11	METAL CHIP	15K	5%	1/10W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-216-797-11	METAL CHIP	10	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R351	1-249-419-11	CARBON	1.5K	5%	1/4W
R352	1-249-419-11	CARBON	1.5K	5%	1/4W
R353	1-217-671-11	RES-CHIP	1	5%	1/10W
R400	1-216-797-11	METAL CHIP	10	5%	1/10W
R401	1-216-840-11	METAL CHIP	39K	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-216-841-11	METAL CHIP	47K	5%	1/10W
R408	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R409	1-216-841-11	METAL CHIP	47K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-864-11	SHORT CHIP	0		
R423	1-216-864-11	SHORT CHIP	0		
R450	1-216-805-11	METAL CHIP	47	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R500	1-216-841-11	METAL CHIP	47K	5%	1/10W
R501	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R502	1-216-833-11	METAL CHIP	10K	5%	1/10W
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R505	1-216-864-11	SHORT CHIP	0		
R600	1-249-417-11	CARBON	1K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W
R603	1-249-417-11	CARBON	1K	5%	1/4W
R604	1-249-417-11	CARBON	1K	5%	1/4W
R605	1-249-417-11	CARBON	1K	5%	1/4W
R606	1-249-417-11	CARBON	1K	5%	1/4W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R650	1-249-425-11	CARBON	4.7K	5%	1/4W
R651	1-216-841-11	METAL CHIP	47K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R654	1-216-845-11	METAL CHIP	100K	5%	1/10W
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W
R656	1-216-838-11	METAL CHIP	27K	5%	1/10W
R657	1-216-809-11	METAL CHIP	100	5%	1/10W
R663	1-216-845-11	METAL CHIP	100K	5%	1/10W
R664	1-216-821-11	METAL CHIP	1K	5%	1/10W
R710	1-260-300-11	CARBON	4.7	5%	1/2W
R711	1-249-419-11	CARBON	1.5K	5%	1/4W
R712	1-249-419-11	CARBON	1.5K	5%	1/4W
R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-247-749-11	CARBON	560	5%	1/2W
R722	1-216-864-11	SHORT CHIP	0		
R725	1-247-749-11	CARBON	560	5%	1/2W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R730	1-216-833-11	METAL CHIP	10K	5%	1/10W
R731	1-249-421-11	CARBON	2.2K	5%	1/4W
R732	1-216-817-11	METAL CHIP	470	5%	1/10W
R740	1-216-837-11	METAL CHIP	22K	5%	1/10W
R800	1-216-833-11	METAL CHIP	10K	5%	1/10W
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R804	1-216-797-11	METAL CHIP	10	5%	1/10W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R814	1-216-849-11	METAL CHIP	220K	5%	1/10W
R815	1-216-864-11	SHORT CHIP	0		
R852	1-216-864-11	SHORT CHIP	0		
R853	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S1	1-692-431-21	SWITCH, TACTILE (RESET)			
SW1	1-572-552-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)			
		< TUNER UNIT >			
TU100	A-3220-944-A	TUNER UNIT (TUX-031//Q2)			
		< THERMISTOR >			
TH700	1-801-726-11	THERMISTOR, POSITIVE			
TH701	1-801-726-11	THERMISTOR, POSITIVE			
TH800	1-801-792-21	THERMISTOR, POSITIVE			
		< VIBRATOR >			
X1	1-795-539-11	VIBRATOR, CRYSTAL (18.432MHz)			
X2	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
		MISCELLANEOUS			
		**********			
6	1-776-207-31	CORD (WITH CONNECTOR) (POWER)			
57	1-780-021-11	CONDUCTIVE BOARD, CONNECTION			
58	1-786-464-11	SWITCH, SHEET			
169	A-3220-926-B	MECHANISM DECK ASSY (MG-36SZ13-32)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)			
HP901	1-500-661-11	HEAD, MAGNETIC (PLAYBACK)			
LCD1	1-805-131-11	DISPLAY PANEL, LIQUID CRYSTAL			
M901	1-763-507-11	MOTOR, DC (CAPSTAN/REEL)			
S901	1-771-928-11	SWITCH, SLIDE (DIRECTION)			
S902	1-771-926-11	SWITCH, LEAF (FF/REW)			
S903	1-771-927-11	SWITCH, LEAF (TAPE DETECT)			
**********					
		ACCESSORIES			
		**********			
	3-246-852-22	MANUAL, INSTRUCTION (ENGLISH, SPANISH, TRADITIONAL CHINESE) (E)			
	3-246-852-32	MANUAL, INSTRUCTION (ENGLISH, ARABIC) (EA)			
	3-246-853-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, TRADITIONAL CHINESE) (E)			
	3-246-853-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC) (EA)			
**********					

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	X-3382-647-1	FRAME ASSY, FITTING	
502	3-246-758-01	COLLAR	
503	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	
504	3-246-471-01	KEY (FRAME)	
505	X-3382-759-1	SCREW ASSY (4), FITTING	



XR-CA360/CA360X

SONY

SERVICE MANUAL

Ver 1.2 2003.12

E Model
XR-CA360/CA360X
Saudi Arabia Model
XR-CA360

SUPPLEMENT-1

File this supplement with the service manual.

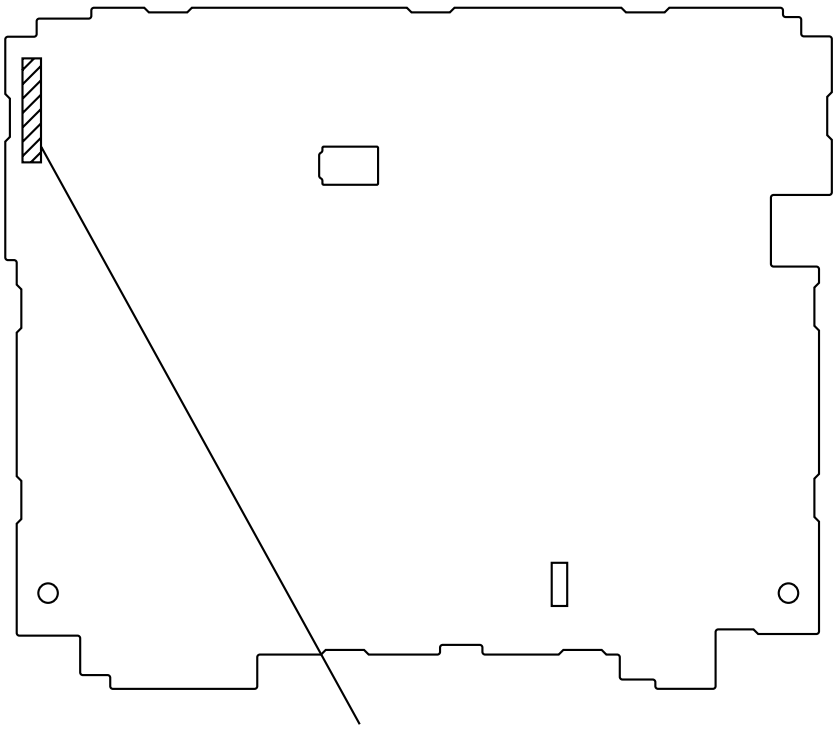
Subject: Change of MAIN board.

(ECN-CSA07576)

In this set, MAIN board have been changed in the midway of production.
Printed wiring boards and schematic diagrams of type B, and changed parts list are described in this supplement-1.
Refer to original service manual for other information.

• TYPE A/B DISCRIMINATION

– MAIN BOARD (Conductor Side) –



Type A: PTP008401
Type B: PTP008402

9-874-258-81

1 DIAGRAMS

1-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▬ : Pattern from the side which enables seeing.
- – – – – : Carbon pattern.

(The other layers' patterns are not indicated.)

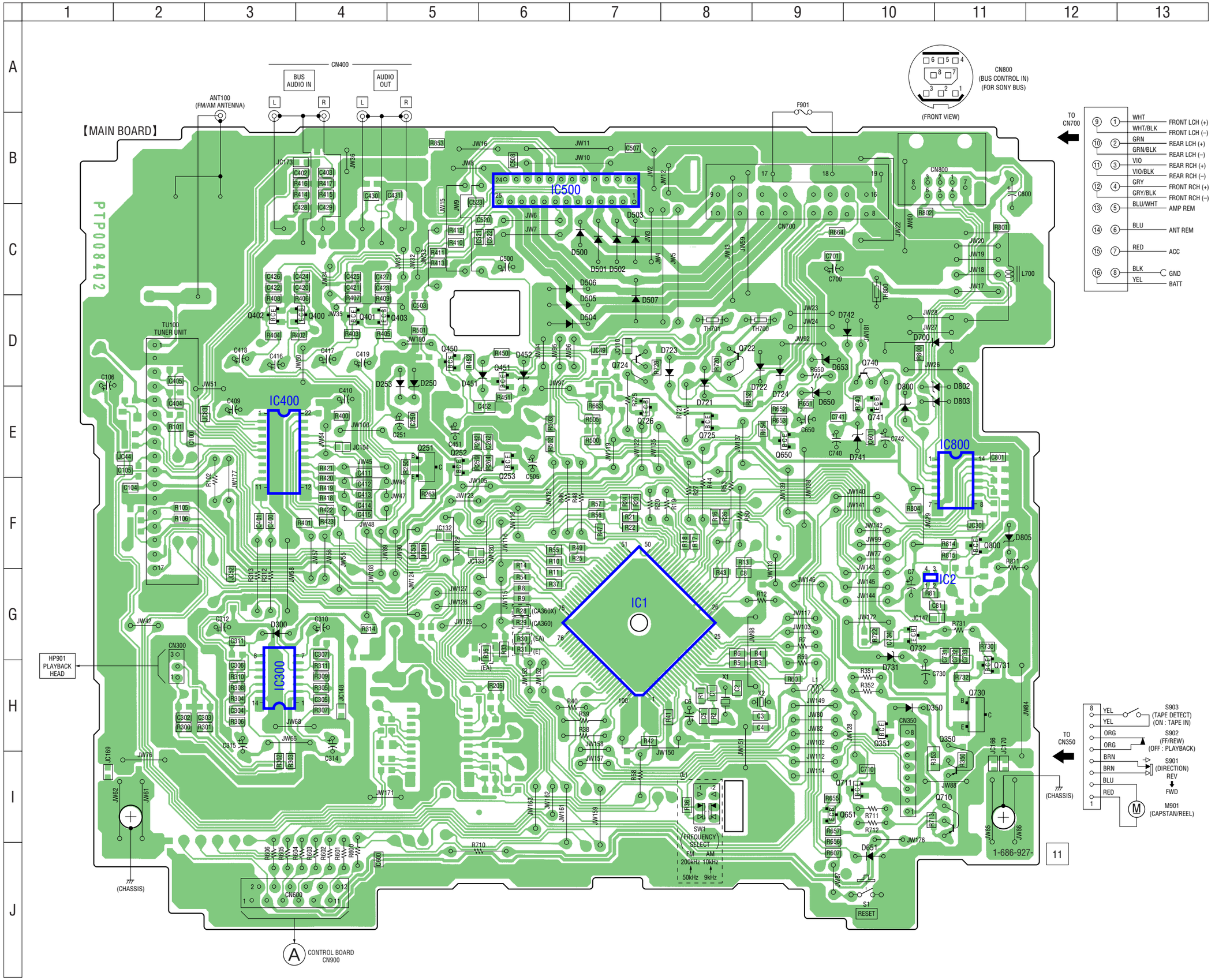
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  EA : Saudi Arabia model
- When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ⟨⟨ ⟩⟩ : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⩔ : TAPE PLAYBACK
  ⇨ : BUS AUDIO IN
- Abbreviation
  EA : Saudi Arabia model
- When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

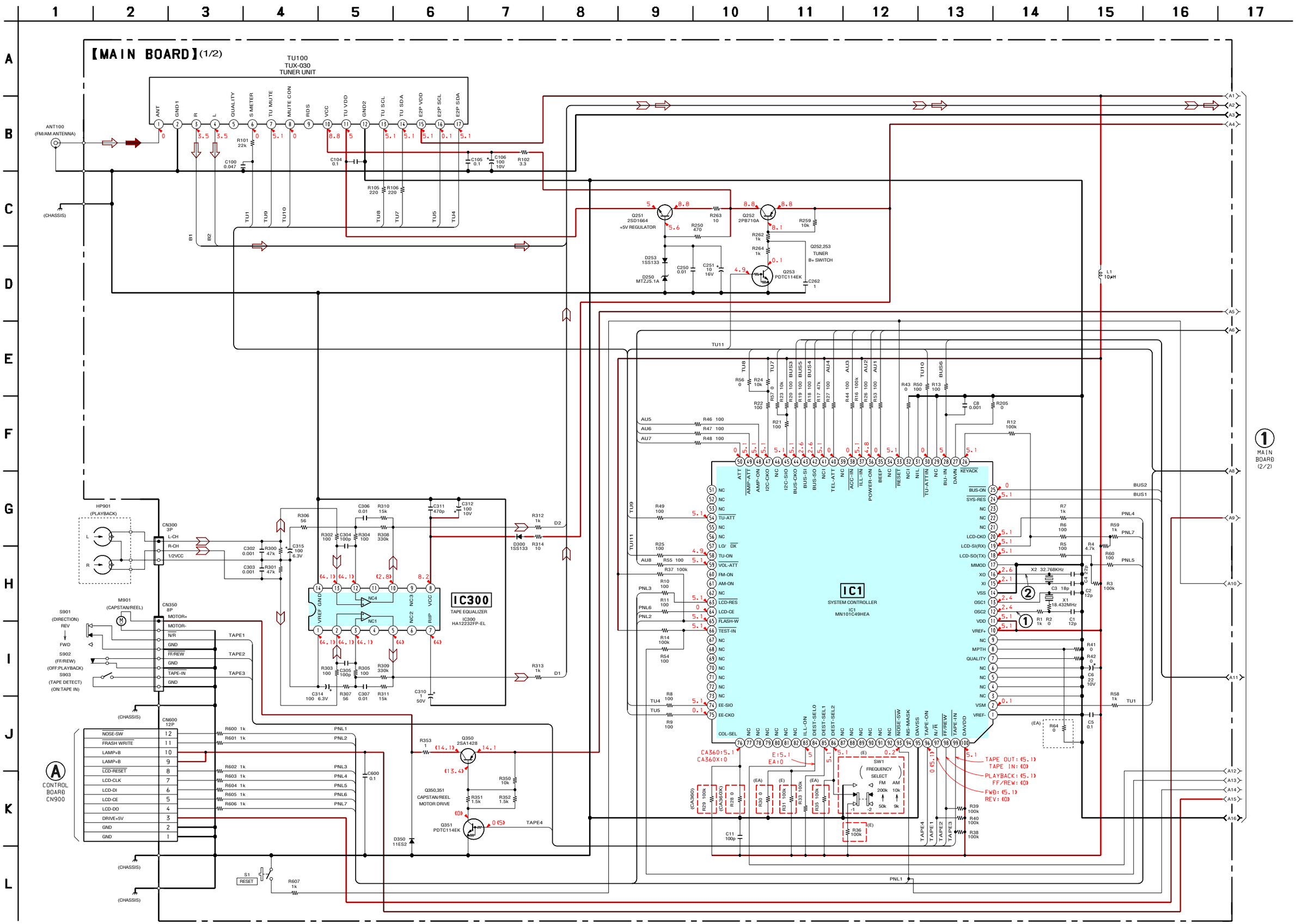
1-2. PRINTED WIRING BOARD – MAIN Board – Note: When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).



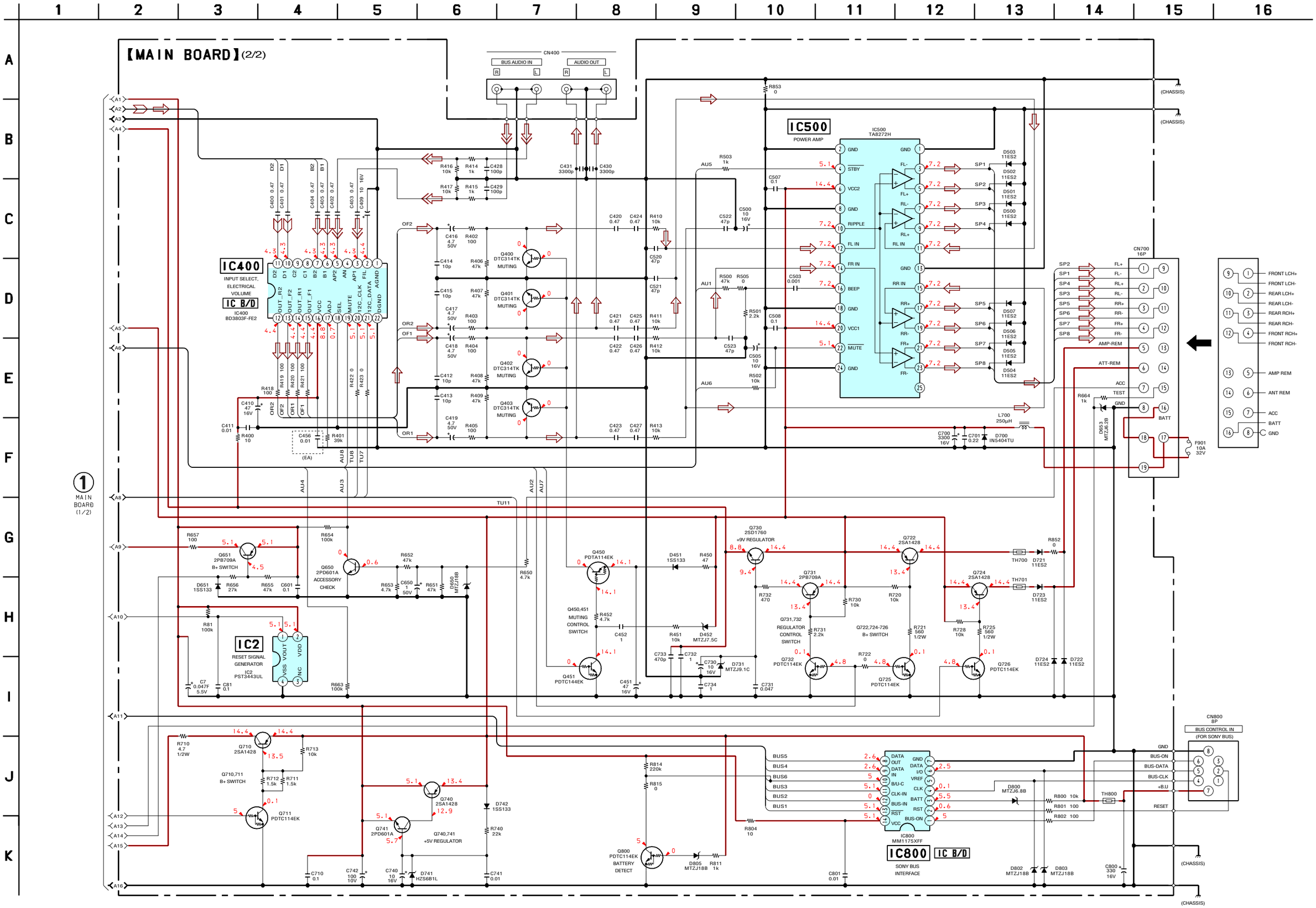
- **Semiconductor Location**

Ref. No.	Location
D250	D-5
D253	D-5
D300	G-3
D350	H-10
D451	D-6
D452	D-6
D500	C-7
D501	C-7
D502	C-7
D503	C-7
D504	D-7
D505	D-7
D506	C-7
D507	D-7
D650	E-9
D651	J-10
D653	D-9
D700	D-10
D721	D-8
D722	D-9
D723	D-8
D724	D-9
D731	H-11
D741	E-10
D742	D-10
D800	E-10
D802	E-11
D803	E-11
D805	F-11
IC1	G-7
IC2	G-11
IC300	H-3
IC400	E-3
IC500	B-6
IC800	E-11
Q251	E-5
Q252	E-5
Q253	E-6
Q350	I-11
Q351	H-10
Q400	D-4
Q401	D-4
Q402	D-3
Q403	D-4
Q450	D-5
Q451	D-6
Q650	E-9
Q651	I-9
Q710	I-11
Q711	I-10
Q722	D-8
Q724	D-7
Q725	E-8
Q726	E-7
Q730	H-11
Q731	G-11
Q732	G-10
Q740	D-10
Q741	E-10
Q800	F-11

1-3. SCHEMATIC DIAGRAM – MAIN Board (1/2) – Note: When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).



1-4. SCHEMATIC DIAGRAM – MAIN Board (2/2) –



MEMO

2 ELECTRICAL PARTS LIST

MAIN

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
- Abbreviation
  EA : Saudi Arabia model
- 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. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

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

Ref. No.	Part No.	Description			Remark
	A-3274-648-A	MAIN BOARD, COMPLETE (CA360X)			
	A-3274-708-A	MAIN BOARD, COMPLETE (CA360: E)			
	A-3274-711-A	MAIN BOARD, COMPLETE (EA)			
		**********			
*	3-041-578-01	BRACKET (IC)			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< JACK >			
ANT100	1-815-185-13	JACK (ANT) (FM/AM ANTENNA)			
		< CAPACITOR >			
C1	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C2	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-124-234-00	ELECT	22uF	20%	10V
C7	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C11	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C100	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (EA)
C104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C105	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C106	1-124-584-00	ELECT	100uF	20%	10V
C250	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C251	1-126-157-11	ELECT	10uF	20%	16V
C262	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C305	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C310	1-104-942-11	ELECT	1uF	20%	50V
C311	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C312	1-124-584-00	ELECT	100uF	20%	10V
C314	1-124-584-00	ELECT	100uF	20%	6.3V
C315	1-124-584-00	ELECT	100uF	20%	6.3V
C400	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C401	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C402	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C403	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C404	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C405	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C409	1-126-157-11	ELECT	10uF	20%	16V
C410	1-124-589-11	ELECT	47uF	20%	16V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C412	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C413	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C414	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C415	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C416	1-126-163-11	ELECT	4.7uF	20%	50V
C417	1-126-163-11	ELECT	4.7uF	20%	50V
C418	1-126-163-11	ELECT	4.7uF	20%	50V
C419	1-126-163-11	ELECT	4.7uF	20%	50V
C420	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C421	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C422	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C423	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C424	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C425	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C426	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C427	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C430	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C431	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C451	1-124-589-11	ELECT	47uF	20%	16V
C452	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (EA)
C500	1-126-157-11	ELECT	10uF	20%	16V
C503	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C505	1-126-157-11	ELECT	10uF	20%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C521	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C522	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C523	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C600	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C650	1-104-942-11	ELECT	1uF	20%	50V
C700	1-126-936-11	ELECT	3300uF	20%	16V

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Ref. No.	Part No.	Description			Remark
C701	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C710	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C730	1-126-157-11	ELECT	10uF	20%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C733	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C734	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C740	1-126-157-11	ELECT	10uF	20%	16V
C741	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C742	1-124-584-00	ELECT	100uF	20%	10V
C800	1-126-940-11	ELECT	330uF	20%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
* CN300	1-564-705-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN350	1-573-486-11	PIN, CONNECTOR (PC BOARD) 8P			
CN400	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT)			
CN600	1-794-311-21	PLUG, CONNECTOR 12P			
CN700	1-774-701-11	PIN, CONNECTOR 16P			
CN800	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
		< DIODE >			
D250	8-719-921-42	DIODE	MTZJ-5.1A		
D253	8-719-991-33	DIODE	1SS133T-77		
D300	8-719-991-33	DIODE	1SS133T-77		
D350	8-719-200-82	DIODE	11ES2		
D451	8-719-991-33	DIODE	1SS133T-77		
D452	8-719-110-03	DIODE	RD7.5ESB2		
D500	8-719-200-82	DIODE	11ES2		
D501	8-719-200-82	DIODE	11ES2		
D502	8-719-200-82	DIODE	11ES2		
D503	8-719-200-82	DIODE	11ES2		
D504	8-719-200-82	DIODE	11ES2		
D505	8-719-200-82	DIODE	11ES2		
D506	8-719-200-82	DIODE	11ES2		
D507	8-719-200-82	DIODE	11ES2		
D650	8-719-110-49	DIODE	RD18ESB2		
D651	8-719-991-33	DIODE	1SS133T-77		
D653	8-719-109-93	DIODE	RD6.2ESB2		
D700	8-719-049-38	DIODE	1N5404TU		
D721	8-719-200-82	DIODE	11ES2		
D722	8-719-200-82	DIODE	11ES2		
D723	8-719-200-82	DIODE	11ES2		
D724	8-719-200-82	DIODE	11ES2		
D731	8-719-110-14	DIODE	RD9.1ESB3		
D741	8-719-935-39	DIODE	HZS6B1LTD		
D742	8-719-991-33	DIODE	1SS133T-77		
D800	8-719-109-97	DIODE	RD6.8ESB2		
D802	8-719-110-49	DIODE	RD18ESB2		
D803	8-719-110-49	DIODE	RD18ESB2		
D805	8-719-110-49	DIODE	RD18ESB2		
		< IC >			
IC1	6-803-178-01	IC	MN101C49HEA		
IC2	6-701-405-01	IC	PST3443UL		
IC300	6-802-510-01	IC	HA12232FP-EL		
IC400	6-703-302-02	IC	BD3803AF-FE2		

Ref. No.	Part No.	Description			Remark
IC500	8-759-827-12	IC	TA8272H		
IC800	8-759-096-16	IC	MM1175XFF		
		< SHORT >			
JC30	1-216-864-11	SHORT CHIP	0		
JC44	1-216-864-11	SHORT CHIP	0		
JC49	1-216-864-11	SHORT CHIP	0		
JC52	1-216-864-11	SHORT CHIP	0		
JC53	1-216-864-11	SHORT CHIP	0		
JC83	1-216-864-11	SHORT CHIP	0		
JC91	1-216-864-11	SHORT CHIP	0		
JC104	1-216-864-11	SHORT CHIP	0		
JC110	1-216-864-11	SHORT CHIP	0		
JC132	1-216-864-11	SHORT CHIP	0		
JC133	1-216-864-11	SHORT CHIP	0		
JC134	1-216-864-11	SHORT CHIP	0		
JC147	1-216-864-11	SHORT CHIP	0		
JC148	1-216-864-11	SHORT CHIP	0		
JC166	1-216-864-11	SHORT CHIP	0		
JC169	1-216-864-11	SHORT CHIP	0		
JC170	1-216-864-11	SHORT CHIP	0		
JC173	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-410-509-11	INDUCTOR	10uH		
L700	1-419-476-11	COIL, CHOKE	250uH		
		< TRANSISTOR >			
Q251	8-729-920-85	TRANSISTOR	2SD1664-QR		
Q252	8-729-049-85	TRANSISTOR	2PB710AR-115		
Q253	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q350	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q351	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q400	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q401	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q402	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q403	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q450	8-729-043-32	TRANSISTOR	PDTA114EK-115		
Q451	8-729-043-29	TRANSISTOR	PDTC144EK-115		
Q650	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q651	8-729-216-22	TRANSISTOR	2SA1162-G		
Q710	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q711	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q722	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q724	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q725	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q726	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q730	8-729-921-48	TRANSISTOR	2SD1760F5-Q		
Q731	8-729-216-22	TRANSISTOR	2SA1162-G		
Q732	8-729-043-27	TRANSISTOR	PDTC114EK-115		
Q740	8-729-205-95	TRANSISTOR	2SA1428-Y		
Q741	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q800	8-729-043-27	TRANSISTOR	PDTC114EK-115		
		< RESISTOR >			
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2	1-216-864-11	SHORT CHIP	0		

When replacing the IC1, refer to servicing note (Page 2 “When replacing the IC1”).

MAIN

Ref. No.	Part No.	Description			Remark
R3	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5	1-216-809-11	METAL CHIP	100	5%	1/10W
R6	1-216-809-11	METAL CHIP	100	5%	1/10W
R7	1-249-417-11	CARBON	1K	5%	1/4W
R8	1-216-809-11	METAL CHIP	100	5%	1/10W
R9	1-216-809-11	METAL CHIP	100	5%	1/10W
R10	1-216-809-11	METAL CHIP	100	5%	1/10W
R11	1-216-809-11	METAL CHIP	100	5%	1/10W
R12	1-249-441-11	CARBON	100K	5%	1/4W
R13	1-216-809-11	METAL CHIP	100	5%	1/10W
R14	1-216-845-11	METAL CHIP	100K	5%	1/10W
R16	1-216-845-11	METAL CHIP	100K	5%	1/10W
R17	1-216-841-11	METAL CHIP	47K	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-247-807-31	CARBON	100	5%	1/4W
R20	1-247-807-31	CARBON	100	5%	1/4W
R21	1-216-809-11	METAL CHIP	100	5%	1/10W
R22	1-216-809-11	METAL CHIP	100	5%	1/10W
R23	1-216-833-11	METAL CHIP	10K	5%	1/10W
R24	1-216-833-11	METAL CHIP	10K	5%	1/10W
R25	1-216-809-11	METAL CHIP	100	5%	1/10W
R26	1-216-809-11	METAL CHIP	100	5%	1/10W
R27	1-247-807-31	CARBON	100	5%	1/4W
R28	1-216-864-11	SHORT CHIP	0 (CA360X)		
R29	1-216-845-11	METAL CHIP	100K	5%	1/10W (CA360)
R30	1-216-864-11	SHORT CHIP	0 (EA)		
R31	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R33	1-216-845-11	METAL CHIP	100K	5%	1/10W
R35	1-216-845-11	METAL CHIP	100K	5%	1/10W (EA)
R36	1-216-845-11	METAL CHIP	100K	5%	1/10W (E)
R37	1-216-845-11	METAL CHIP	100K	5%	1/10W
R38	1-249-441-11	CARBON	100K	5%	1/4W
R39	1-249-441-11	CARBON	100K	5%	1/4W
R40	1-249-441-11	CARBON	100K	5%	1/4W
R41	1-216-864-11	SHORT CHIP	0		
R42	1-216-864-11	SHORT CHIP	0		
R43	1-216-864-11	SHORT CHIP	0		
R44	1-247-807-31	CARBON	100	5%	1/4W
R46	1-247-807-31	CARBON	100	5%	1/4W
R47	1-216-809-11	METAL CHIP	100	5%	1/10W
R48	1-247-807-31	CARBON	100	5%	1/4W
R49	1-216-809-11	METAL CHIP	100	5%	1/10W
R50	1-247-807-31	CARBON	100	5%	1/4W
R53	1-247-807-31	CARBON	100	5%	1/4W
R54	1-216-809-11	METAL CHIP	100	5%	1/10W
R55	1-216-809-11	METAL CHIP	100	5%	1/10W
R56	1-216-864-11	SHORT CHIP	0		
R57	1-216-864-11	SHORT CHIP	0		
R58	1-249-417-11	CARBON	1K	5%	1/4W
R59	1-249-417-11	CARBON	1K	5%	1/4W
R60	1-216-809-11	METAL CHIP	100	5%	1/10W
R64	1-216-809-11	METAL CHIP	100	5%	1/10W (EA)

Ref. No.	Part No.	Description			Remark
R81	1-216-845-11	METAL CHIP	100K	5%	1/10W
R101	1-216-837-11	METAL CHIP	22K	5%	1/10W
R102	1-249-387-11	CARBON	3.3	5%	1/4W
R105	1-216-813-11	METAL CHIP	220	5%	1/10W
R106	1-216-813-11	METAL CHIP	220	5%	1/10W
R205	1-216-864-11	SHORT CHIP	0		
R250	1-216-817-11	METAL CHIP	470	5%	1/10W
R259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-821-11	METAL CHIP	1K	5%	1/10W
R263	1-216-797-11	METAL CHIP	10	5%	1/10W
R264	1-216-821-11	METAL CHIP	1K	5%	1/10W
R300	1-216-841-11	METAL CHIP	47K	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-806-11	METAL CHIP	56	5%	1/10W
R307	1-216-806-11	METAL CHIP	56	5%	1/10W
R308	1-216-851-11	METAL CHIP	330K	5%	1/10W
R309	1-216-851-11	METAL CHIP	330K	5%	1/10W
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W
R311	1-216-835-11	METAL CHIP	15K	5%	1/10W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-216-797-11	METAL CHIP	10	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R351	1-249-419-11	CARBON	1.5K	5%	1/4W
R352	1-249-419-11	CARBON	1.5K	5%	1/4W
R353	1-217-671-11	RES-CHIP	1	5%	1/10W
R400	1-216-797-11	METAL CHIP	10	5%	1/10W
R401	1-216-840-11	METAL CHIP	39K	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-216-841-11	METAL CHIP	47K	5%	1/10W
R408	1-216-841-11	METAL CHIP	47K	5%	1/10W
R409	1-216-841-11	METAL CHIP	47K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-864-11	SHORT CHIP	0		
R423	1-216-864-11	SHORT CHIP	0		
R450	1-216-805-11	METAL CHIP	47	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R500	1-216-841-11	METAL CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R501	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R502	1-216-833-11	METAL CHIP	10K	5%	1/10W
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R505	1-216-864-11	SHORT CHIP	0		
R600	1-249-417-11	CARBON	1K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W
R603	1-249-417-11	CARBON	1K	5%	1/4W
R604	1-249-417-11	CARBON	1K	5%	1/4W
R605	1-249-417-11	CARBON	1K	5%	1/4W
R606	1-249-417-11	CARBON	1K	5%	1/4W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R650	1-249-425-11	CARBON	4.7K	5%	1/4W
R651	1-216-841-11	METAL CHIP	47K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R654	1-216-845-11	METAL CHIP	100K	5%	1/10W
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W
R656	1-216-838-11	METAL CHIP	27K	5%	1/10W
R657	1-216-809-11	METAL CHIP	100	5%	1/10W
R663	1-216-845-11	METAL CHIP	100K	5%	1/10W
R664	1-216-821-11	METAL CHIP	1K	5%	1/10W
R710	1-260-300-11	CARBON	4.7	5%	1/2W
R711	1-249-419-11	CARBON	1.5K	5%	1/4W
R712	1-249-419-11	CARBON	1.5K	5%	1/4W
R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-247-749-11	CARBON	560	5%	1/2W
R722	1-216-864-11	SHORT CHIP	0		
R725	1-247-749-11	CARBON	560	5%	1/2W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R730	1-216-833-11	METAL CHIP	10K	5%	1/10W
R731	1-249-421-11	CARBON	2.2K	5%	1/4W
R732	1-216-817-11	METAL CHIP	470	5%	1/10W
R740	1-216-837-11	METAL CHIP	22K	5%	1/10W
R800	1-216-833-11	METAL CHIP	10K	5%	1/10W
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-797-11	METAL CHIP	10	5%	1/10W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R814	1-216-849-11	METAL CHIP	220K	5%	1/10W
R815	1-216-864-11	SHORT CHIP	0		
R852	1-216-864-11	SHORT CHIP	0		
R853	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S1	1-692-431-21	SWITCH, TACTILE (RESET)			
SW1	1-572-552-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)			
		< TUNER UNIT >			
TU100	A-3220-944-A	TUNER UNIT TUX-031			
		< THERMISTOR >			
TH700	1-801-726-11	THERMISTOR, POSITIVE			
TH701	1-801-726-11	THERMISTOR, POSITIVE			
TH800	1-801-792-21	THERMISTOR, POSITIVE			

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-795-539-11	VIBRATOR, CRYSTAL (18.432MHz)	
X2	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	

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MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.12	New
1.1	2003.02	Addition of JIG Correction of Part No. for Ref. No. 57, 58, LCD1 XR-CA360X Saudi Arabia model is deleted (ECN-CSA06620/CSA06687/ENG-03001/SPM-03004)
1.2	2003.12	Addition of “When replaceing the IC1” to SERVICING NOTE Change of Part No. for Ref. No. IC1, TU100 Change of Part No. for mechanism deck (MG-36SZ13-32) Change of MAIN board (SUPPLEMENT-1: 9-874-258-81) (ECN-CSA07071/CSA07525/CSA07576/CSB04022)