

D-822K

SERVICE MANUAL

*US Model**Canadian Model**AEP Model**E Model**Australian Model**Tourist Model*

| | |
|------------------------------------|----------------|
| Model Name Using Similar Mechanism | NEW |
| CD Mechanism | KSM-331AAN (S) |

SPECIFICATIONS

| | | | |
|----------------------------------|---|----------------------|--|
| System Laser diode properties | Compact disc digital audio system Material : GaAlAs Wavelength : $\lambda = 780\text{nm}$ Emission duration : Continuous Laser output : Less than $44.6\text{ }\mu\text{W}$ (This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.) | Dimensions | • DC IN 4.5V jack accepts the car battery cord for use on car battery. Not supplied: • DC 2.4 V rechargeable battery pack • DC 3 V two size AA (LR6) alkaline batteries (for the unit) • DC 3 V two size AA (R6) batteries (for remote commander) Approx. 138 x 31.5 x 159.0 mm (5 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 6 $\frac{3}{8}$ in.)(whd) incl. projecting parts and controls |
| Error correction | Sony Super Strategy Cross Interleave Reed Solomon Code | Mass | Approx. 310g (11 oz) not incl. rechargeable battery |
| D-A conversion | 1-bit quartz time-axis control | Supplied accessories | AC power adaptor (1) |
| Frequency response | 20–20,000Hz ± 0.5 dB (measured by EIAJ CP-307) | | Wireless remote commander (1) |
| Output (at 4.5V input level) | Line output (stereo minijack) Output level 0.65V rms at 50kilohms Headphones (stereo minijack) 4mW + 4mW at 16Ω | | Velcro tapes for the CD player (2) |
| General Power requirements | Supplied • DC IN 4.5V jack accepts the Sony AC power adaptor for use on : | | Velcro tape for the remote commander (1) |

| Where purchased | Operating Voltage |
|-----------------|------------------------|
| AEP | 220–230 V AC, 50 Hz |
| US, Canadian | 120V AC, 60 Hz |
| E, EA, JE | 110–240 V AC, 50/60 Hz |
| Australian | 240 V AC, 50 Hz |
| Other countries | 100–240 V AC, 50/60 Hz |

- Abbreviations
 - EA : Saudi Arabia model
 - JE : Tourist model

Design and specifications subject to change without notice.

COMPACT DISC COMPACT PLAYER
SONY®



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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

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.

Before Replacing the Optical Block

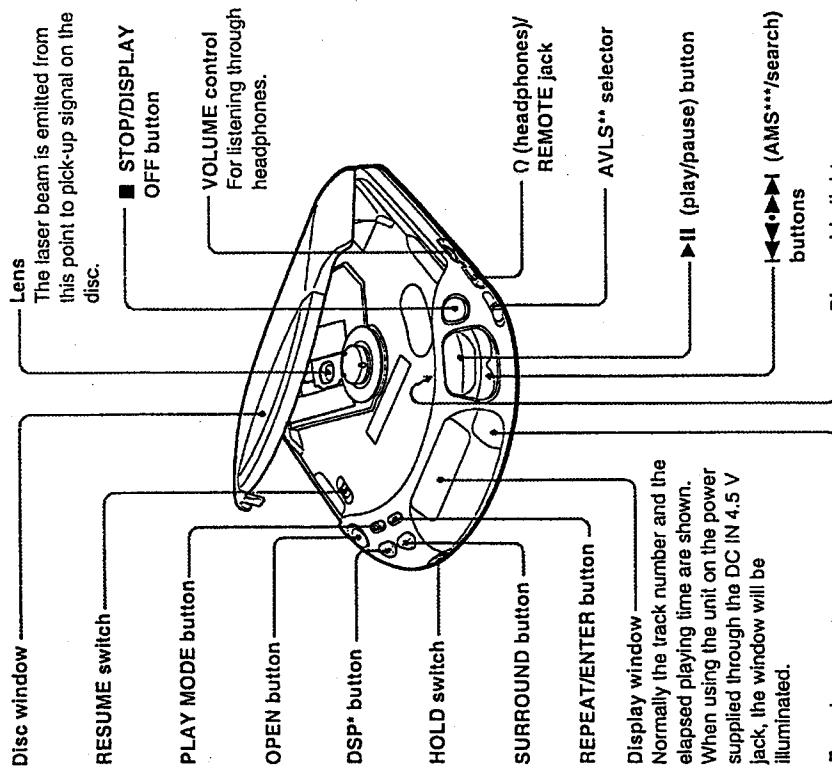
Please be sure to check thoroughly the parameters as per the "Optical Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical block. Note and specifications required to check are given below.

- FOK output : IC601 pin
- S curve P-to-P value : 1.5Vp-p
When checking S curve P-to-P value.
Remove the lead wire to disc motor and R535.
- RF signal P-to-P value : 0.65Vp-p
- Traverse signal P-to-P value : 0.5Vp-p
- The grating holder can not repair.

SECTION 1 GENERAL

This section is extracted
from instruction manual.

Location and Function of Controls



| | |
|------------------------|---------------|
| DSP or SURROUND button | Other buttons |
| amber | green |
| green | amber |

To change the illumination colors
Slide the ILLUMINATION switch to GREEN or AMBER. When the unit is in DSP or SURROUND mode, the DSP or SURROUND button is illuminated with opposite color to the other buttons.

SECTION 2 SERVICE MODE

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block.

Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

Laser Diode Check Procedure

The laser diode on this set will not emit unless the upper panel is closed and S801 (push switch type) is turned on.

The laser diode will always emit even if focus search is not performed in service mode.

The laser diode is checked using the current value which flows to the laser diode inside the optical pick-up block.

Procedure 1 (service mode or normal operation)

Check the laser diode emission with the eye.

1. Open upper panel by pushing the OPEN button.
2. S801 on as Fig. 1.
(In service mode, this operation is not necessary.)
3. Press the **►II** key.
(In service mode, this operation is not necessary.)
4. Observe the objective lens and confirm that the laser diode goes on about 2.5 seconds due to focus search. If it does not, APC circuit or optical pick-up block is defective.

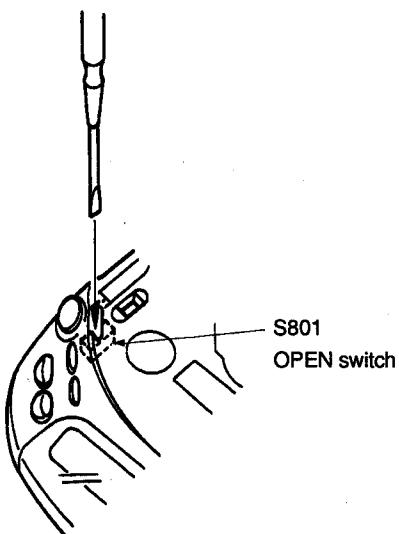


Fig. 1 Turning S801 on

Procedure 2 (service mode or normal operation)

Check by the current which flows in the laser diode.

1. Remove the cabinet.
2. Pick up the optical block by hand and look the rear side of it to see the following label and read the current value on the label.

(Label on optical pick-up block)



current value. This means 45.7mA.

(The current value varies with the set.)

3. Connect a VOM as shown in fig.2.
(both side of R501 : 1Ω)
4. Press the **►II** key.
5. Calculate the current by the VOM reading.
VOM reading (V) = current (A)
ex. VOM reading = 0.045V
 $0.045 = 0.045(A) = 45 \text{ mA}$
6. Confirm that the ammeter reading is within the range given below.
value on label $\pm 5\text{ mA}$ (25°C)
variation relative to temperature : $0.4\text{ mA}/^\circ\text{C}$
(Current increases when temperature rises and decreases when it drops.)

If the value is more than the range given, APC circuit has been defective or the laser diode has deteriorated.

If it is less, APC circuit of optical pick-up block is defective.

[MAIN BOARD] (CONDUCTOR SIDE)

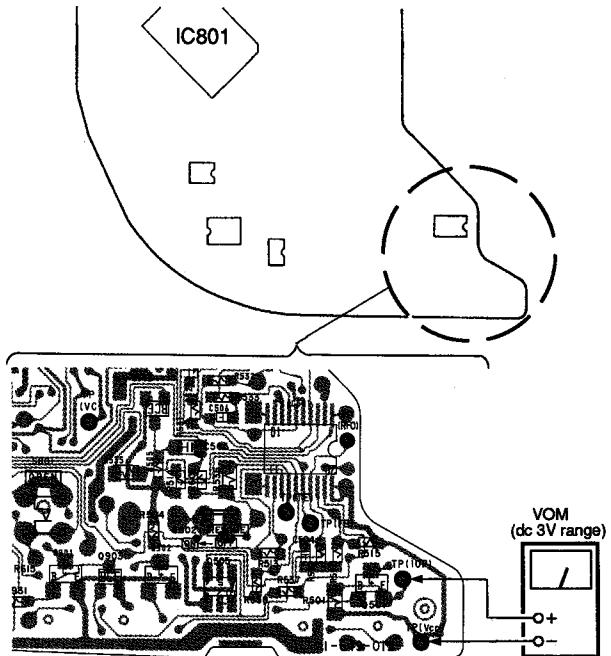


Fig. 2 VOM connecting

SERVICE MODE (service program)

This set has built-in service program in the microcomputer as usual sets.

The operation method of service program is explained below.

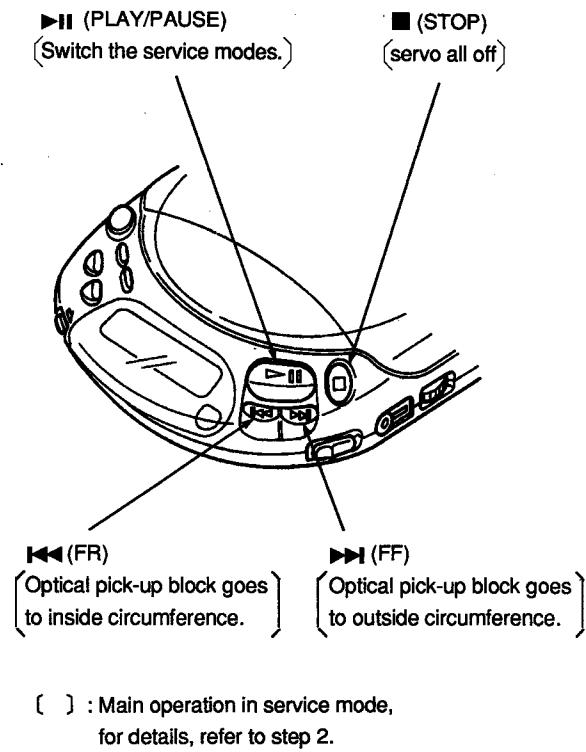
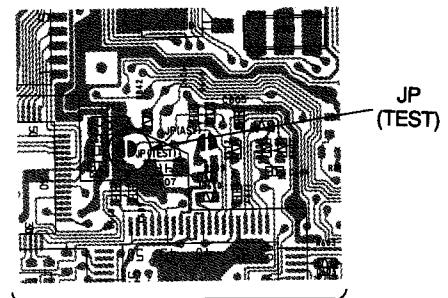


Fig. 3 Key Positions

Step 1 (Service Mode setting method)

1. Solder jumper the TEST terminal (IC801 pin ⑧ (XTEST) is grounded).
2. Plug in the external power supply.

After performing the above procedure, the set is switched to service modes.



Solder jumper for the service mode.
(After checking or adjusting in the service mode, be sure to remove this solder jumper.)

**[MAIN BOARD]
(COMPONENT SIDE)**

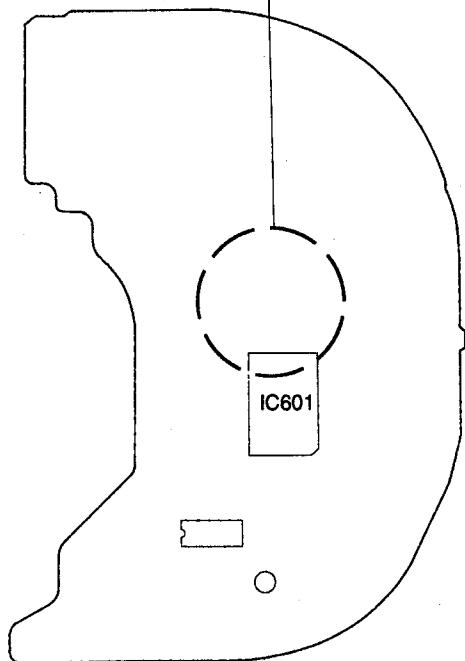


Fig. 4 TEST terminal

• Step 2 (Service Mode operation)

1. LCD Display Check mode

This mode is selected immediately after selecting the service modes. In this mode, LCD display varies into six different patterns and these six patterns are repeated.

When sliding for ON side the ESP switch in this mode, the ESP is on. (LCD  mark lights up continuously.)

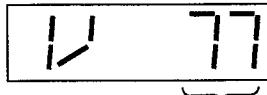
2. Each time the **►||** key is pressed, the modes are switched as follows.

① LCD Display Check mode

↓ Press the **►||** key.

① Automatic Voltage Adjustment mode

PWM output data (IC801 pin ④ output, PWM signal duty ratio) to control output voltage of DC/DC converter for servo system power supply is displayed on the LCD.



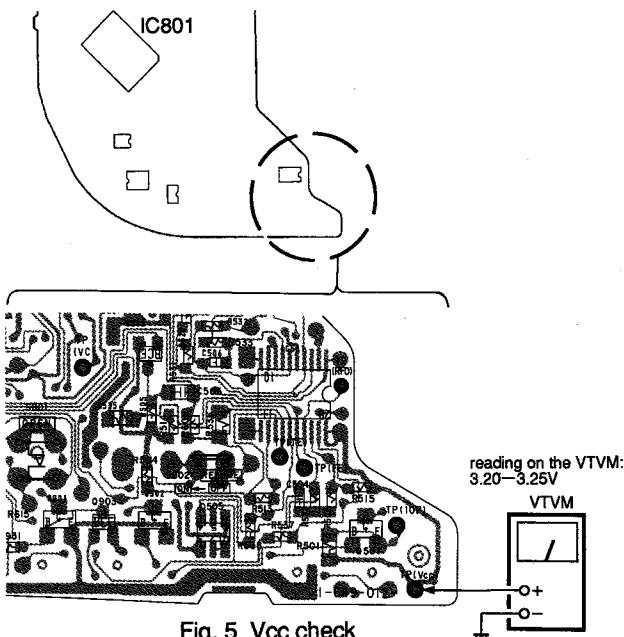
The data appeared are "77" in ESP off and "9F" in ESP on. If data is "00" or "FF", the DC/DC converter may be failure.

Optical pick-up can be moved on and after this mode.

Movement of optical pick-up... The optical pick-up moves to outside track when the **►||** key is passed.

The optical pick-up moves to inside track when the **◀||** key is passed.

[MAIN BOARD] (CONDUCTOR SIDE)



↓ Press the **►||** key.

② Automatic Average Adjustment mode

DC offset value of RF voltage (IC601 pin ⑧ input) against VC voltage (IC601 pin ⑩ input), and FE voltage (IC601 pin ⑨ input) against VC voltage (IC501 pin ⑨) is displayed on the LCD.



Faulty if the display is "00 00 00" or "FF FF FF".

Also, faulty if lower 2 digits (FE voltage) are "20" or less.

* The laser is turned off in this mode.

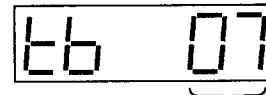
↓ Press the **►||** key.

③ Automatic Tracking Balance Adjustment mode

The focus is turned on from the focus search, then the disc motor runs and Automatic Tracking Balance Adjustment mode is activated, if a disc is loaded on the turn table.

A 4-bit tracking balance data is displayed on the LCD.

At this time, optical pick-up can be moved with the **►||** or **◀||** key.



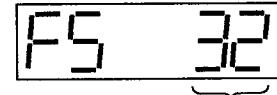
Faulty if the display data is "00" or "FF".

Focus search is repeated many times, if a disc is not loaded on the turn table. In this case, load a disc on the turn table and perform confirmation.

↓ Press the **►||** key.

④ Automatic Focus Gain Adjustment mode

The focus gain is displayed on the LCD.



Focus Gain

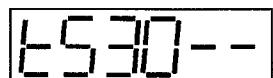
↓ Press the **►||** key.

↓
⑤ Automatic Tracking Adjustment mode

The tracking gain is displayed on the LCD.



If tracking servo is faulty, "--" is displayed as shown below.



↓ Press the ▶II key.

⑥ Audio signal is output.

"All" is displayed on the LCD.



↓ Press the ▶II key.

① LCD Display Check mode is restored.

3. When the ■ key is pressed, all servo systems (focus, tracking and sled) are turned off and the LCD Display Check mode is restored.

However, the disc motor will run for a while due to inertia.

· Step 3 (Service Mode release)

1. First be sure to unplug the external power supply, then remove the TEST terminal solder jumper.
2. The set will now operate normally.

SECTION 3

ELECTRICAL ADJUSTMENTS

Notes on Check Adjustment

1. Confirmation/adjustment should be performed after selecting a service mode. The service mode must be cancelled after confirmation/adjustment is finished.
(Refer to "Service Mode (service program)" on page 5.)
2. Confirmation/adjustment should be performed in the order listed.
3. Use YEDS-18 disc (part No. : 3-702-101-01) unless otherwise indicated.
4. Power supply voltage : DC4.5V
HOLD \rightarrow switch : OFF
VOL \blacktriangleleft knob : Minimum
AVLS switch : OFF
RESUME switch : OFF

PREPARATION

Put the set into STOP condition in service mode (See page 5) and perform the following checks. Repair if there are any abnormalities.

Sled Motor Check

1. Press the $\blacktriangleright\blacksquare$ key once, then the $\blacktriangleright\blacktriangleright$ and $\blacktriangleleft\blacktriangleleft$ keys to confirm that the optical pick-up moves to inside track \rightarrow outside track \rightarrow inside track smoothly free from sticking or noise.
 $\blacktriangleright\blacktriangleright$: optical pick-up block moves outward
 $\blacktriangleleft\blacktriangleleft$: optical pick-up block moves inward

Focus Search Check

1. Press the $\blacktriangleright\blacksquare$ key 3 times.
(Focus search is performed continuously.)
2. Observe the optical pick-up block objective lens and check that it moves smoothly up and down with no catching or noises. (It is normal even if it stops for a moment during UP motion.)
3. Press the \blacksquare key.
Check that focus search operation stops. If it does not, press the \blacksquare key again a little longer time.

VC Connecting Point

FOCUS BIAS CHECK

TRACKING BALANCE CHECK

S-CURVE CHECK

When performing the above confirmation, connect a negative terminal of oscilloscope to the TP (VC) as shown below.

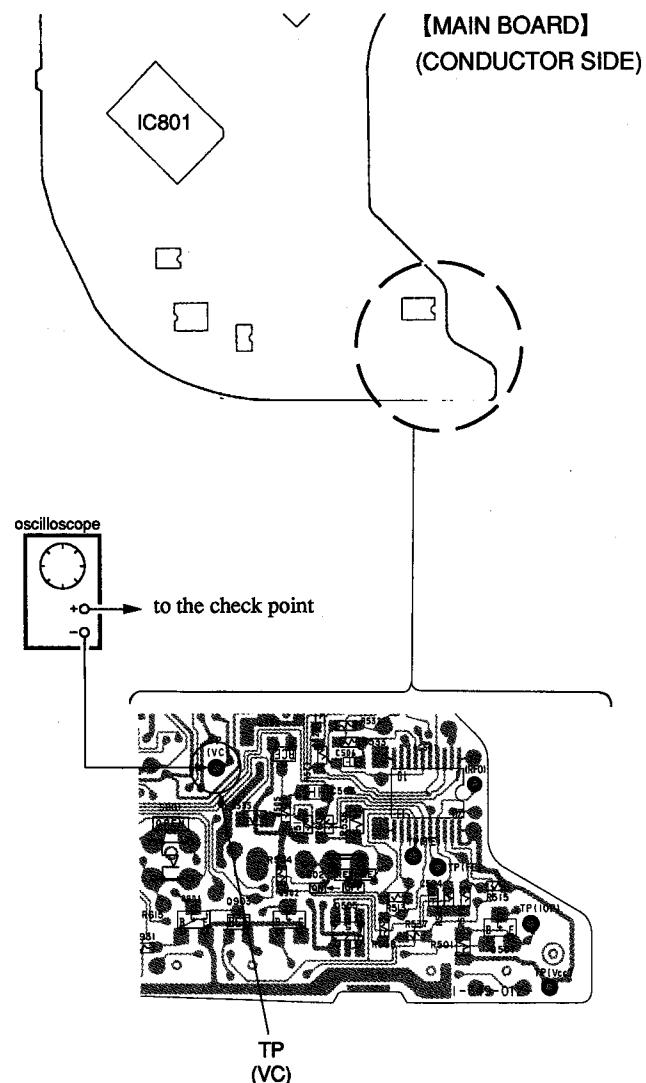
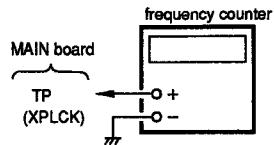


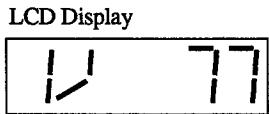
Fig. 6 VC connecting point

PLL Free Run Frequency Check and Adjustment

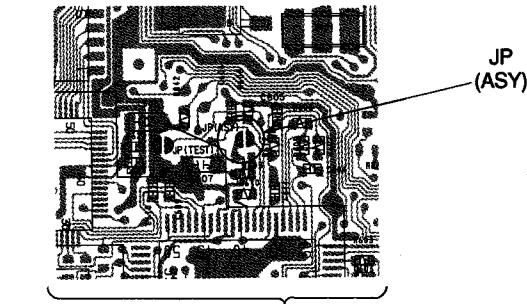
Check/Adjustment Procedure :



1. Solder to jumper the JP(ASY) of IC601 pin ⑩.
2. Connect a frequency counter to the TP (XPLCK) of IC601 pin ⑩.
3. Select the Automatic Voltage Adjustment mode of service modes. (see page 6).



4. Confirm that the frequency counter reading is $4.3218 \pm 0.010\text{MHz}$. If wrong, adjust RV650 so that reading becomes $4.3218 \pm 0.010\text{MHz}$.
5. Cancel the service mode after adjustment is over.(See page 7).
6. Break the solder jumper to open the JP(ASY).



**[MAIN BOARD]
(COMPONENT SIDE)**

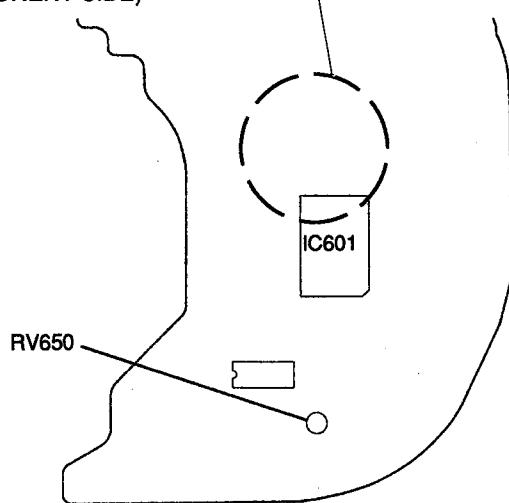
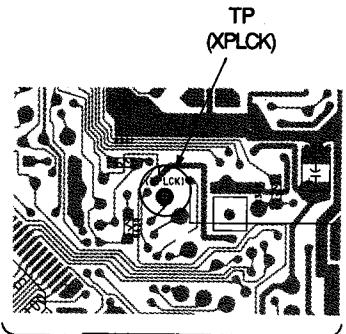


Fig. 7 PLL Free Run Frequency Adjustment Location



**[MAIN BOARD]
(CONDUCTOR SIDE)**

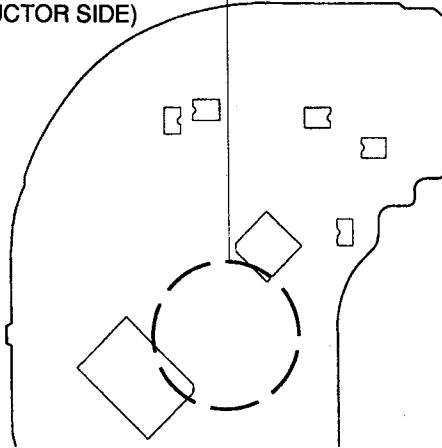


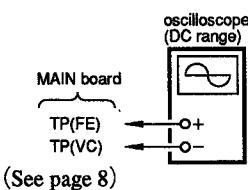
Fig. 8 PLL Free Run Frequency Check Location

S-Curve Check

Conditions :

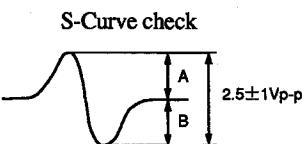
The set should be placed either horizontally.

Check Procedure :



(See page 8)

1. Remove R535 on the FE line.
2. Disconnect the connector (CN502) on the disc motor.
3. Connect a oscilloscope the MAIN board TP (FE).
4. Set the disc (YEDS-18).
5. Press the **►II** key 3 times to perform focus serch.
6. Confirm that the A to B rate or B to A rate of oscilloscope waveforms is over 2 : 1, and also the P-P value is $2.5 \pm 1\text{Vp-p}$.



- After confirmation, reconnect the R535 to FE line and the connector (CN502) to disc motor.

Check Location : MAIN board (CONDUCTOR SIDE)

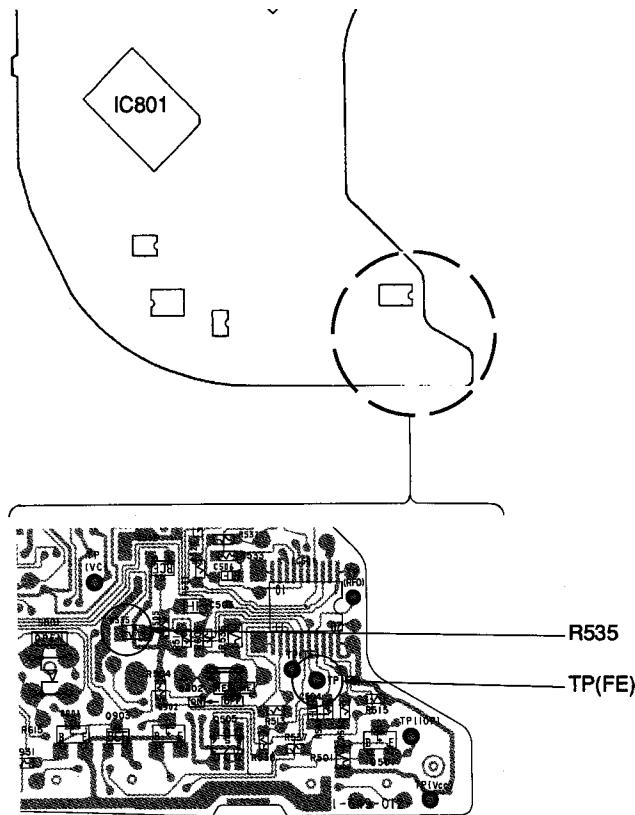


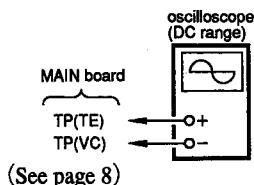
Fig. 9 S-Curve Check Location

Tracking Balance Check

Conditions :

The set should be placed either horizontally.

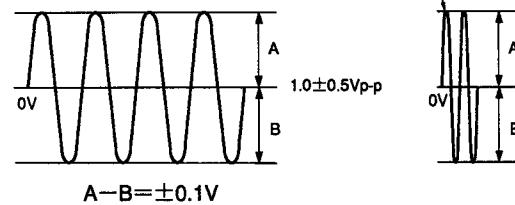
Check Procedure :



- Connect a oscilloscope to MAIN board TP (TE).
- Put the set into STOP condition in service mode (See page 5).

- Press the **►II** key 1 time.
 - Press the **►►** and **◀◀** keys to move the optical pick-up block to the center.
 - Set the disc (YEDS-18).
 - Press the **►II** key 2 times.
- It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.
- Confirm that the waveform on oscilloscope is vertically symmetric against 0V.

Note : Take sweep time as long as possible to obtain best waveform.



- Press the **■** key.
- After check, release service mode (see page 7).

[MAIN BOARD] (CONDUCTOR SIDE)

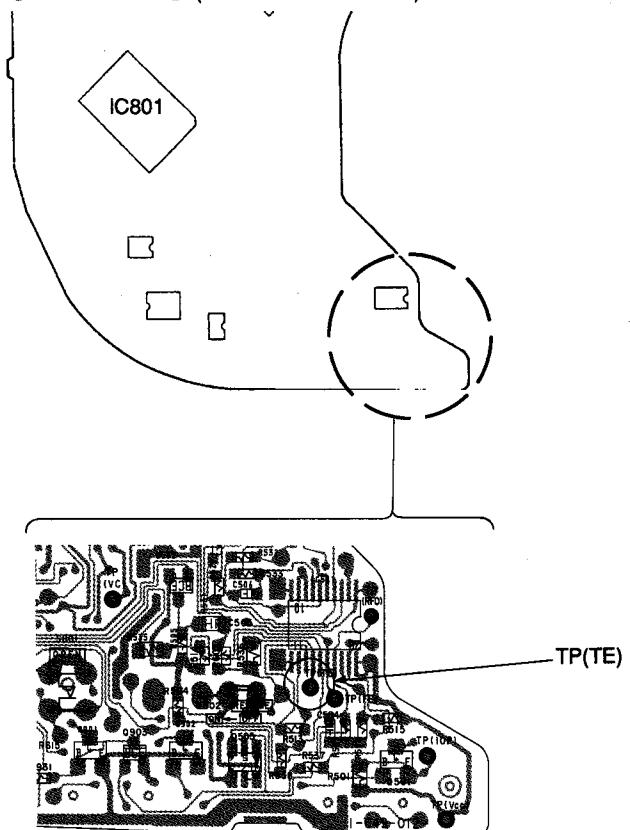


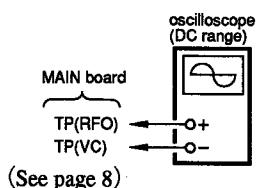
Fig. 10 Tracking Balance Check Location

Focus Bias Check

Conditions :

The set should be placed either horizontally

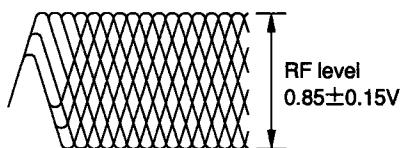
Check Procedure :



1. Put the set into STOP condition in service mode (See page 5).
 2. Connect a oscilloscope to MAIN board TP (RFO).
 3. Press the **►II** key 1 time.
 4. Press the **►►** and **◀◀** keys to move the optical pick-up block to the center. (Move the optical pick-up block to the music area on the disc to enable easy visibility of the eye pattern).
 5. Set the disc (YEDS-18).
 6. Press the **►II** key 2 times.
- It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.
7. Press the PLAY MODE button (Tracking and sled go ON.)
 8. Confirm that clear eye patterns of waveform are generated on the oscilloscope. A good eye pattern means that the diamond shape (\diamond) in the center of the waveform can be clearly distinguished.

• RF Signal Reference Waveform (eye pattern)

VOLT/DIV : 200mV
TIME/DIV : 500nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

9. After check, release service mode (see page 7).

Check Location : MAIN board (CONDUCTOR SIDE)

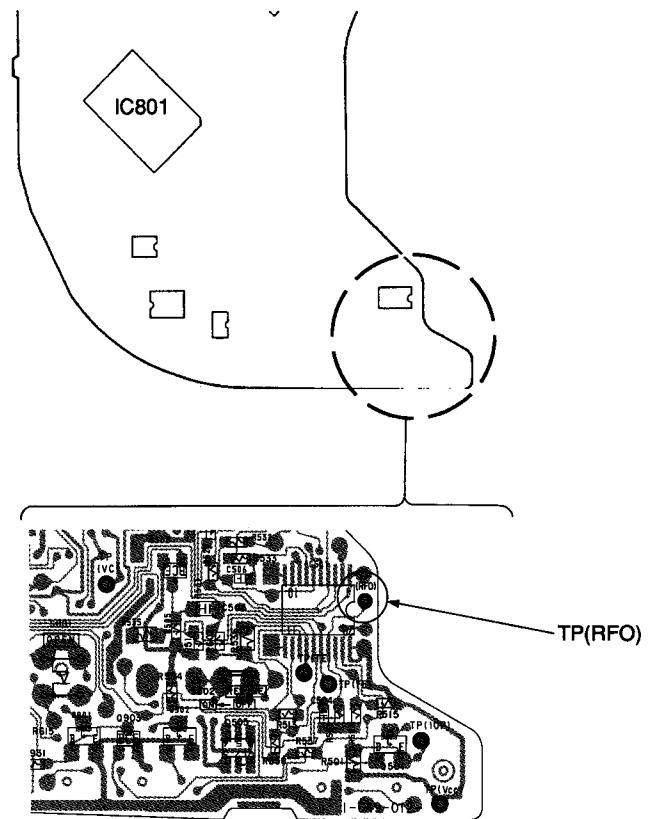


Fig. 11 Focus Bias Check Location

SECTION 4 DIAGRAMS

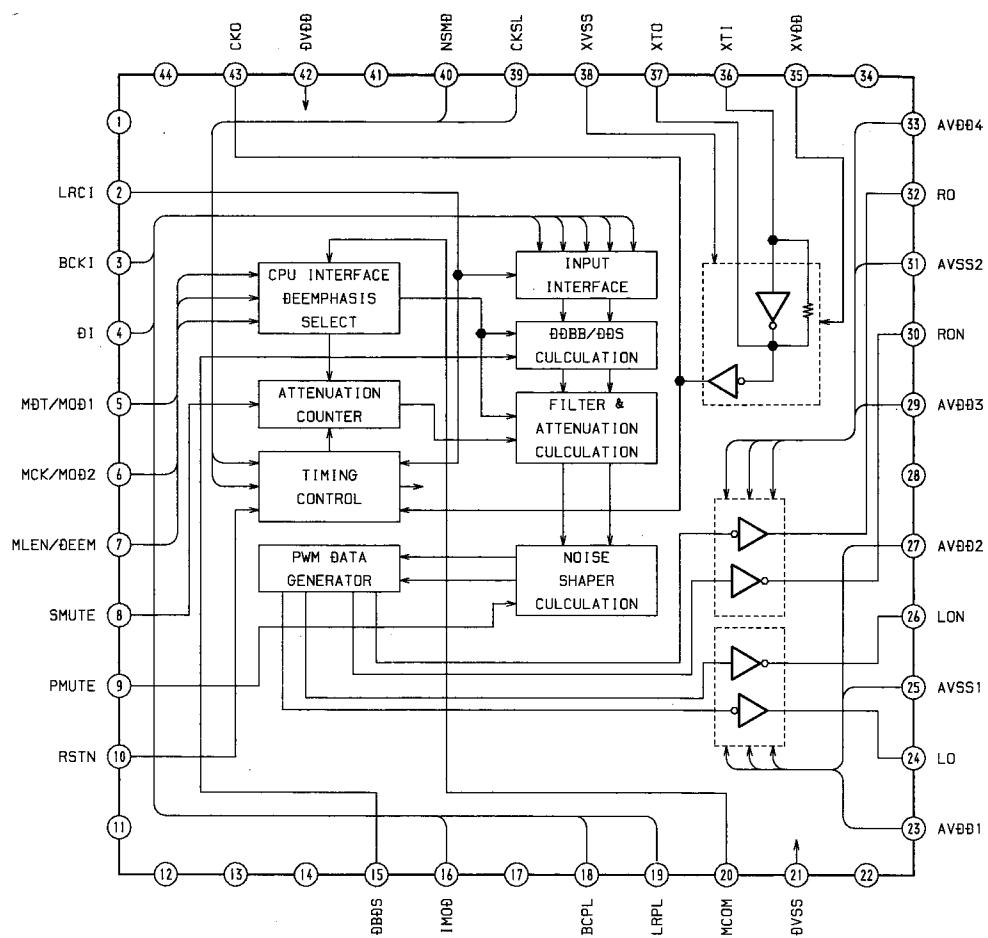
4-1. IC PIN FUNCTION DESCRIPTION

·IC801 CXP83916-603Q SYSTEM CONTROL IC

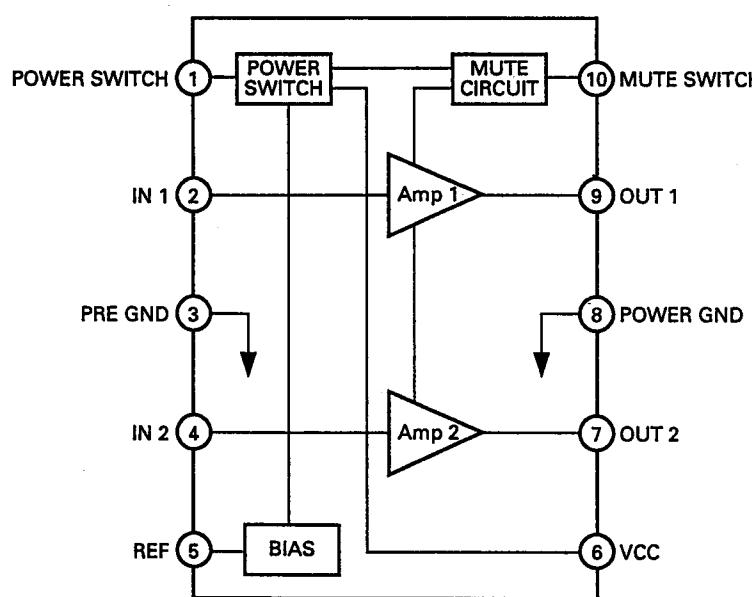
| Pin No. | Name | I/O | Description |
|---------|--------|-----|---|
| 1 | WP | I | System stop status reset signal. Stop status is reset at falling edge of input signal. |
| 2 | OPEN | I | Door switch signal. Stop status is reset at rising edge of input signal. “H” : OPEN, “L” : CLOSE |
| 3 | RMC | I | Infrared remote control signal |
| 4 | VCCADJ | O | PWM output for servo power supply adjustment. Approx. 2kHz |
| 5 | BEEP | O | Pulse signal output at BEEP sound |
| 6 | SENS | I | Input pin of CXD2515Q SENS signal output |
| 7 | SCLK | O | Clock signal output for CXD2515Q SENS serial data reading |
| 11 | SQCK | O | Clock output pin for input of SUB-Q signal from CXD2515Q |
| 12 | SUBQ | I | SUB-Q signal input from CXD2515Q |
| 15 | XLDON | O | Laser diode control output. “L” : ON, “H” : OFF |
| 16 | MIRR | I | Input pin of CXD2515Q MIRR signal output |
| 18 | TEST | I | Test mode selected by input of “L” level at the system reset |
| 20 | XRST | O | RESET signal output to CXD2515Q, RF5C241 and SM5853BF. Each IC is reset by output of “L” level. |
| 21 | PCON | O | Power supply control signal. “L” : POWER ON, “H” : POWER OFF |
| 22 | XRSM | I | RESUME switch input. “L” : RESUME ON, “H” : RESUME OFF |
| 23 | XHOLD | I | HOLD switch input. “L” : HOLD ON, “H” : HOLD OFF (reset) |
| 24 | XDCIN | I | DC-IN detection signal input. “L” : DC-IN detected, “H” : DC-IN not detected |
| 25 | XDM1 | I | Battery (BP-DM10) connection detect switch input. “L” : Battery connected, “H” : Battery not connected |
| 26 | XORG | I | Control signal input at DSPILM and SRRILM. “L” : AMBER, “H” : GREEN |
| 28 | XCHG | O | Battery (BP-DM10) charge control signal output. “L” : Charge |
| 29 | RMDTO | O | Serial data output to LCD remote controller |
| 30 | SAFE | I | A/D input for CXD2515Q auto gain control setting |
| 31 | TCXSL | I | A/D input for model setting |
| 32 | VCCSEL | I | A/D input for servo system power supply voltage setting |
| 33 | CHGMNT | I | A/D input for battery (BP-DM10) charge voltage detection |
| 34 | BATT | I | A/D input for voltage detection of battery (BP-DM10/AM-3) and external power supply |
| 35 | VCCMNT | I | A/D input for servo system power supply voltage detection |
| 36 | RMKEY | I | A/D input of FR, FF, PLAY/PAUSE, DSP and STOP switches on headphone remote controller |
| 37 | KEY | I | A/D input of PLAY/PAUSE, STOP, FF, FR, REPEAT/ENTER, PLAY MODE, DSP, ESP and SURROUND switches |
| 38 | XMCRST | I | System reset signal. System is reset by input of “L” level. |
| 39 | XLTI1 | — | Connection of clock oscillating circuit |
| 40 | XLTO1 | — | 4.19MHz |
| 41 | VSS | — | Ground |
| 43 | XLTI2 | — | Not used (ground) |
| 44 | AVREF | — | Reference voltage input for A/D converter |
| 45 | AVSS | — | Ground of A/D converter |

| Pin No. | Name | I/O | Description | | | | | | | | |
|--------------|---------|-----|--|-------------|--|------|---------|-------------|-------|--------------|-------|
| 46 | VL | O | Control signal to cut off the current flowing into external LCD bias resistor at standby | | | | | | | | |
| 47 | VLC3 | — | LCD bias power supply voltages | | | | | | | | |
| 49 | VLC1 | — | | | | | | | | | |
| 50 | COM0 | — | | | | | | | | | |
| 53 | COM3 | O | LCD remote control signals | | | | | | | | |
| 54 | S00 | — | | | | | | | | | |
| 56 | S02 | O | LCD segment signals | | | | | | | | |
| 58 | S03 | — | | | | | | | | | |
| 73 | S18 | O | LCD segment signals | | | | | | | | |
| 74 | LIGHT | O | Backlight control signal. "H" : ON | | | | | | | | |
| 75 | DSPILM | O | Color changed signal output for DSP LED | | | | | | | | |
| | | | <table border="1"> <tr> <td>XORG</td> <td></td> </tr> <tr> <td>H</td><td>L</td> </tr> <tr> <td>DSP ON</td><td>L H</td> </tr> <tr> <td>DSP OFF</td><td>H L</td> </tr> </table> | XORG | | H | L | DSP ON | L H | DSP OFF | H L |
| XORG | | | | | | | | | | | |
| H | L | | | | | | | | | | |
| DSP ON | L H | | | | | | | | | | |
| DSP OFF | H L | | | | | | | | | | |
| 76 | SRRILM | O | Color changed signal output for SURROUND LED | | | | | | | | |
| | | | <table border="1"> <tr> <td>XORG</td> <td></td> </tr> <tr> <td>H</td><td>L</td> </tr> <tr> <td>SURROUND ON</td><td>L H</td> </tr> <tr> <td>SURROUND OFF</td><td>H L</td> </tr> </table> | XORG | | H | L | SURROUND ON | L H | SURROUND OFF | H L |
| XORG | | | | | | | | | | | |
| H | L | | | | | | | | | | |
| SURROUND ON | L H | | | | | | | | | | |
| SURROUND OFF | H L | | | | | | | | | | |
| 77 | OPNILM | O | ON/OFF control signal output for OPEN LED. "L" : PLAY, "H" : STOP | | | | | | | | |
| 80 | SRR0 | — | SURROUND control signal output | | | | | | | | |
| 81 | SRR1 | O | | | | | | | | | |
| | | | <table border="1"> <tr> <td>LCD DISPLAY</td> <td></td> </tr> <tr> <td>NONE</td><td>((SUR))</td> </tr> <tr> <td>SRR 0</td><td>H L L</td> </tr> <tr> <td>SRR 1</td><td>L H L</td> </tr> </table> | LCD DISPLAY | | NONE | ((SUR)) | SRR 0 | H L L | SRR 1 | L H L |
| LCD DISPLAY | | | | | | | | | | | |
| NONE | ((SUR)) | | | | | | | | | | |
| SRR 0 | H L L | | | | | | | | | | |
| SRR 1 | L H L | | | | | | | | | | |
| 82 | AMUT | O | Mute control signal. "H" : Mute | | | | | | | | |
| 83 | DMUT | O | SM5853BF mute control signal. "H" : Mute | | | | | | | | |
| 85 | MLEN | O | Latch signal output at serial data transfer to SM5853BF | | | | | | | | |
| 86 | CLKO | O | Serial clock to CXD2515Q and SM5853BF | | | | | | | | |
| 87 | DATO | O | Serial data to CXD2515Q and SM5853BF | | | | | | | | |
| 88 | X2515LT | O | Latch signal output at serial data transfer to CXD2515Q | | | | | | | | |
| 89 | VDD | — | Power supply | | | | | | | | |
| 90 | NC | — | Not used (connect to VDD) | | | | | | | | |
| 91 | VSS | — | Ground | | | | | | | | |
| 93 | TEX | — | Not used (ground) | | | | | | | | |
| 94 | TRVCNT | O | LPF switch for tracking balance adjustment. "H" : LPF ON | | | | | | | | |
| 95 | TRV0 | — | | | | | | | | | |
| 98 | TRV3 | O | Resistor selection switch for tracking balance adjustment. "H" : Select | | | | | | | | |
| 99 | SCOR | I | Input pin of CXD2515Q SCOR signal output | | | | | | | | |
| 100 | RMCKI | I | Input of clock signal (for data output) from LCD remote controller. Data is updated by detection of falling edge. | | | | | | | | |

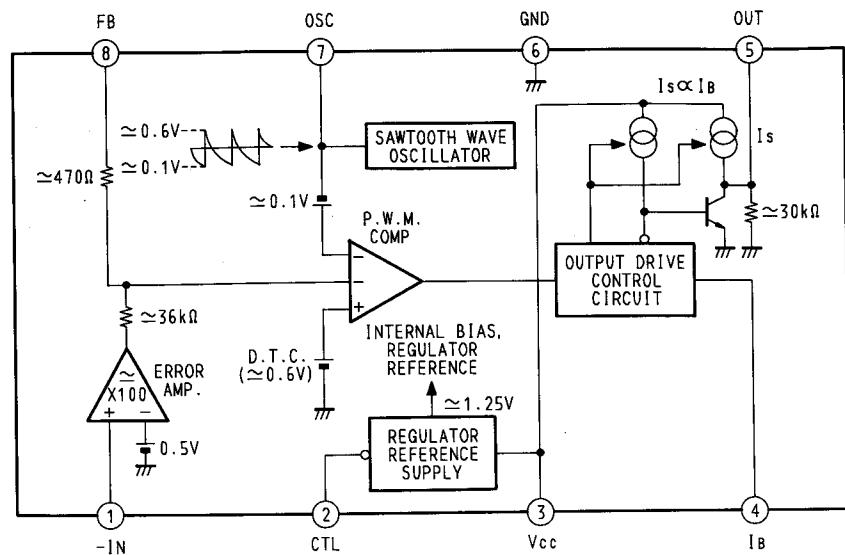
IC301 SM5853BF-EL



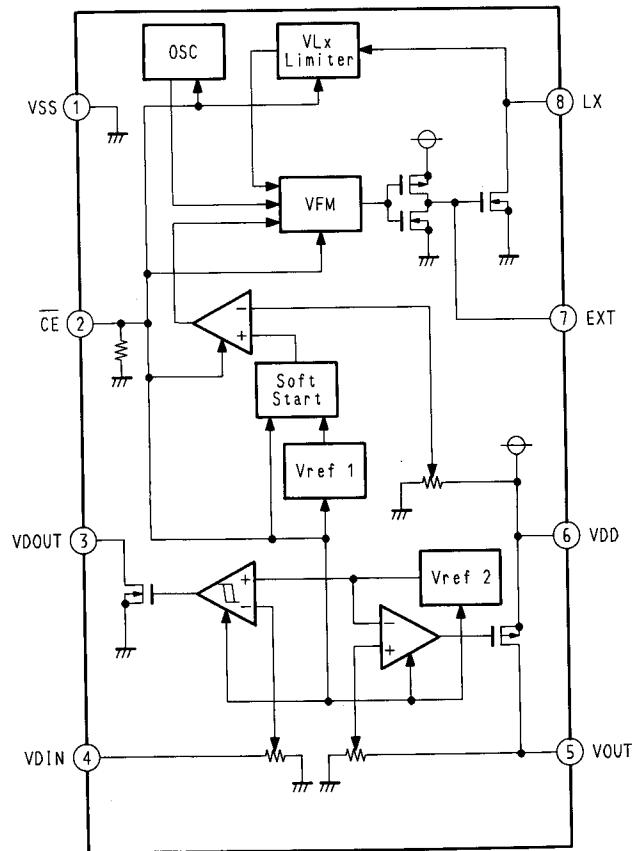
IC304 LA4534M



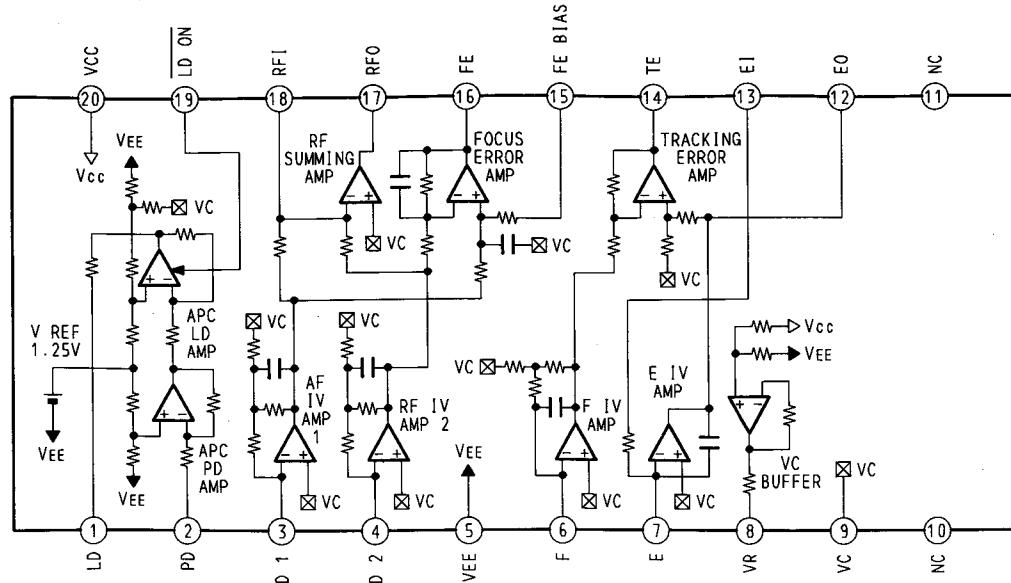
IC401 MB3776APNF-G-SNY-ER



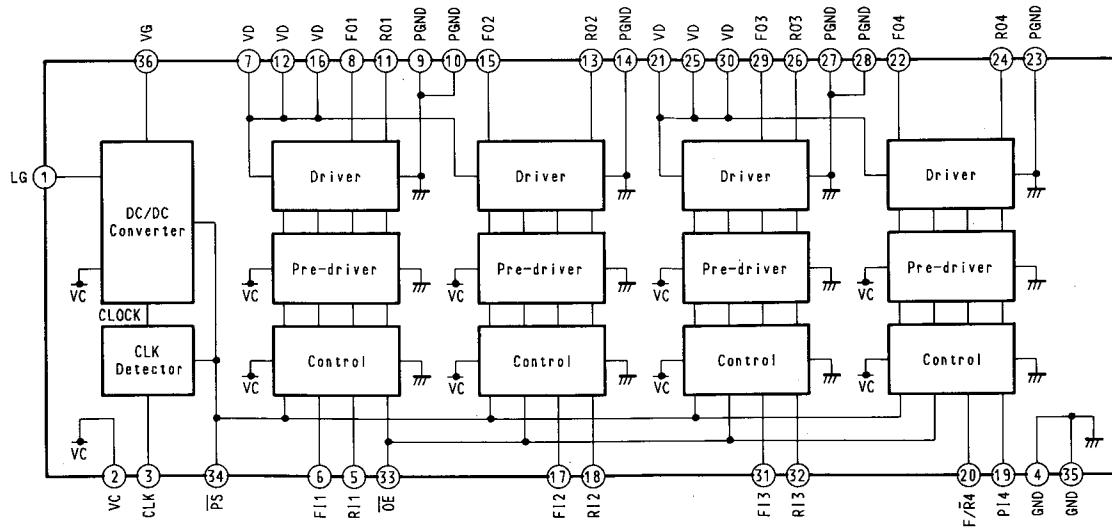
IC402 RS5RJ32271-T1



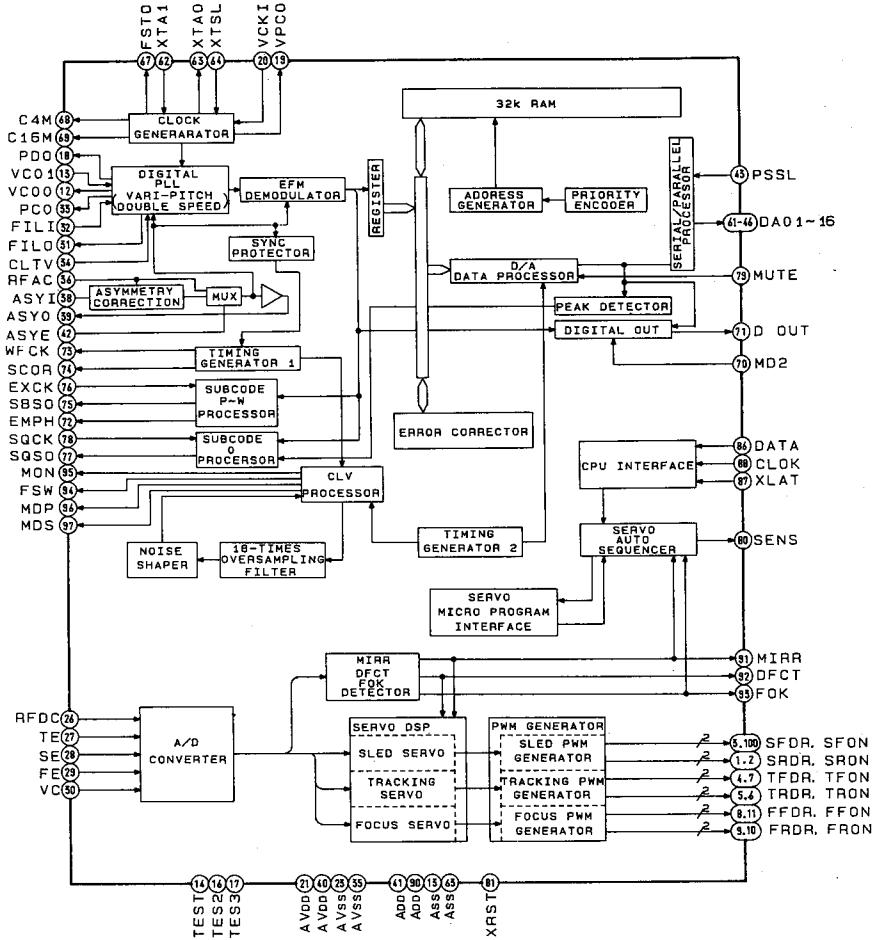
IC501 CXA1571N



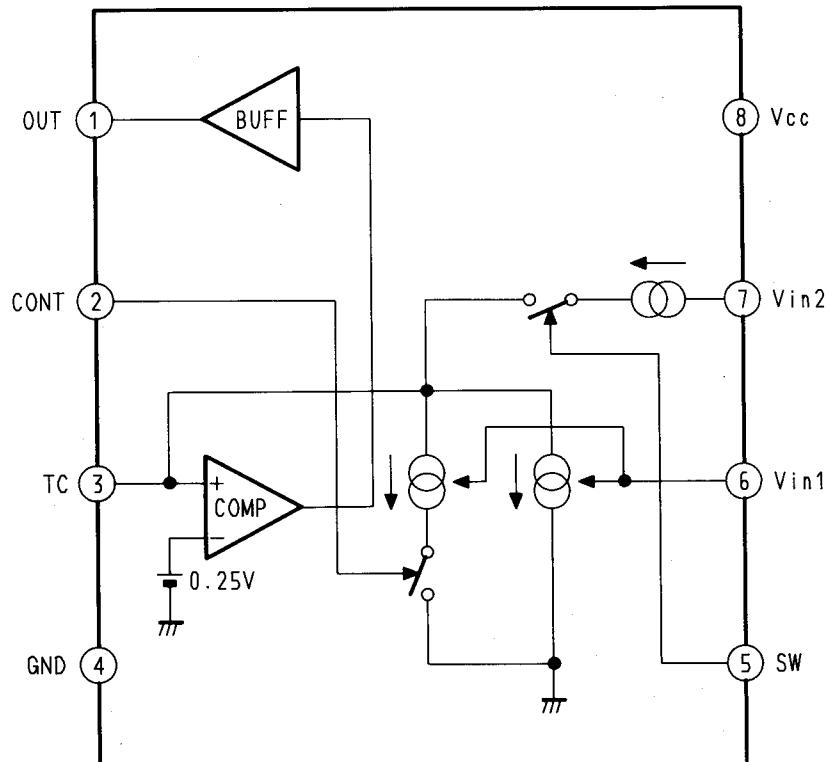
IC502 MPC17A38VMEL



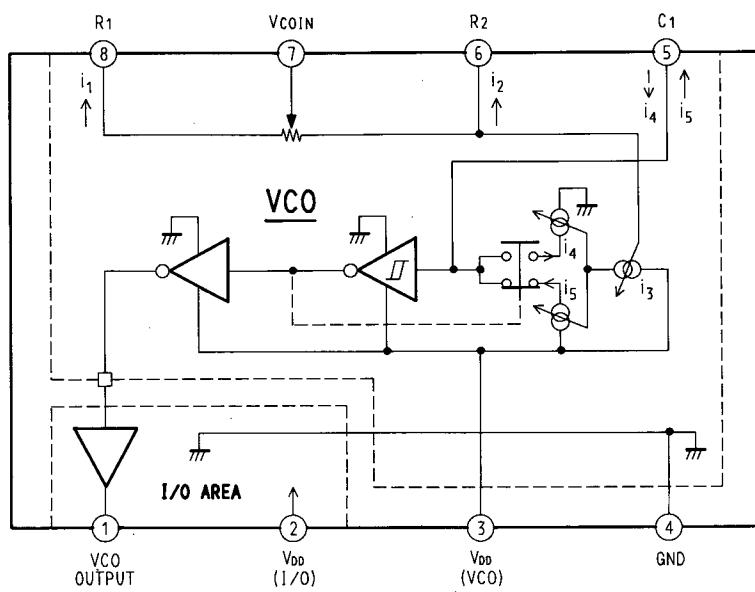
IC601 CXD2515Q



IC605 BA3890F

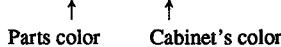


IC606 TLC2931IDB-ELL1000



SECTION 5 EXPLODED VIEWS

NOTE:

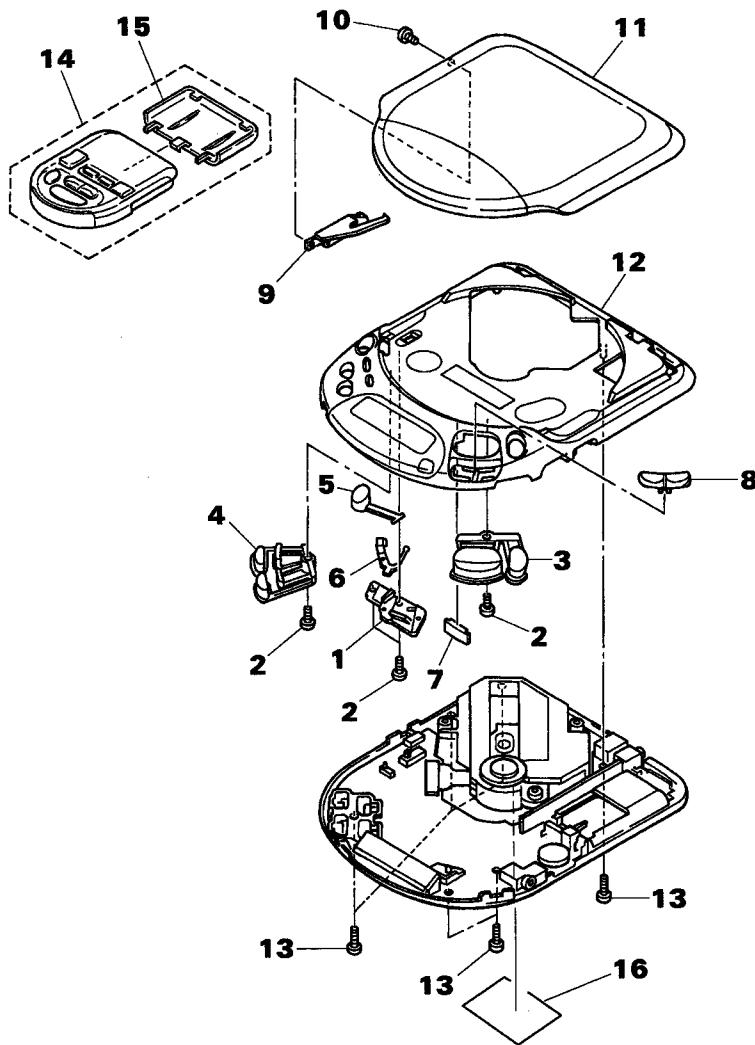
- -xx,-x mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE)...(RED)


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

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CABINET SECTION 1



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|
| 1 | 4-959-436-01 | RETAINER (OPEN) | |
| 2 | 3-374-079-11 | SCREW (1.7X5), TAPPING | |
| 3 | 4-959-429-01 | BUTTON (PLAY) | |
| 4 | 4-959-416-01 | BUTTON (MODE) | |
| 5 | 4-959-433-01 | BUTTON (OPEN) | |
| 6 | 4-959-435-01 | CLAW, LOCK | |
| 7 | 4-959-417-01 | LENS | |
| 8 | 4-959-438-01 | BUTTON (FR) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|
| 9 | X-4943-816-1 | ARM ASSY, SWITCHING | |
| 10 | 3-704-197-32 | SCREW (M1.4X3.0) | |
| 11 | 4-959-444-11 | LID, UPPER | |
| 12 | X-4943-833-1 | CABINET (UPPER) ASSY | |
| 13 | 3-336-395-01 | SCREW (B2X10) (G), TAPPING | |
| 14 | 1-467-210-11 | REMOTE COMMANDER (RM-DM10) | |
| 15 | 4-961-140-01 | LID, BATTERIE CASE (RM-DM10) | |
| *16 | 3-703-034-01 | LABEL, CAUTION (JE) | |

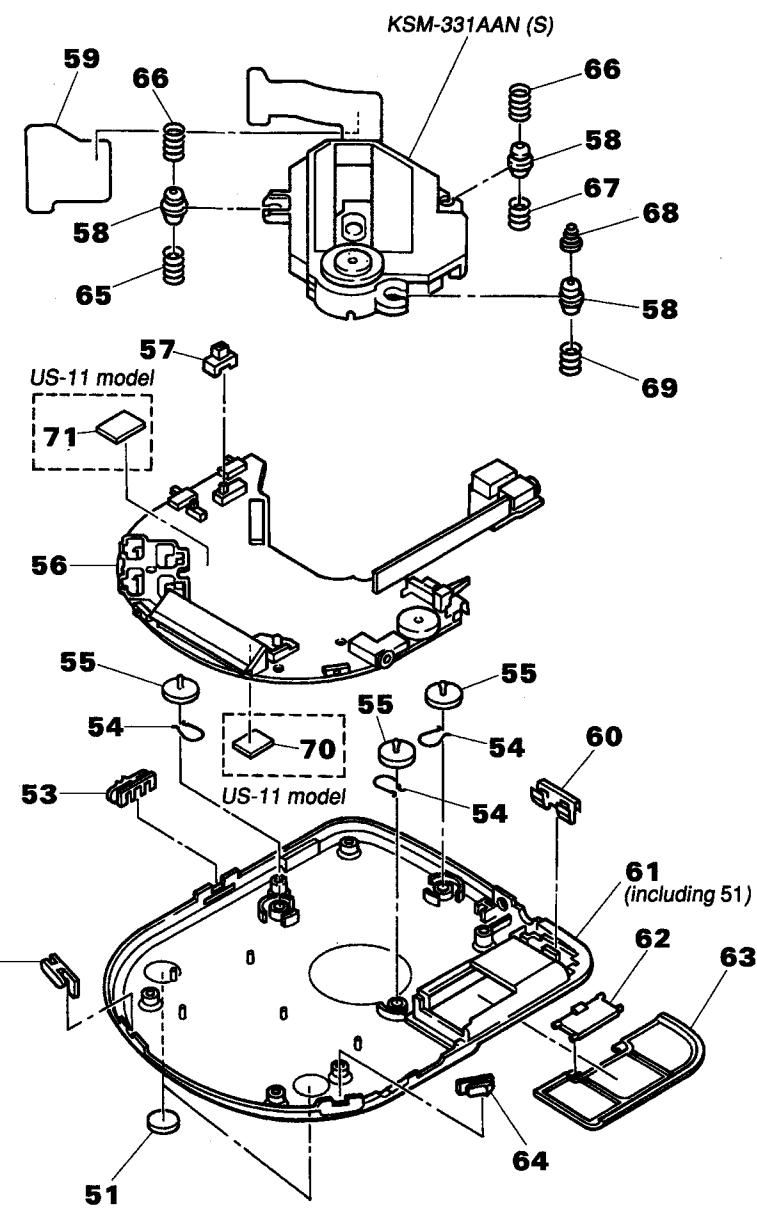
5-2. CABINET SECTION 2

Note:

For the US model only, there are two kinds of last codes -11 and -12 assigned to the MAIN board.
 For last code -11, JT and SK boards are attached.
 For last code -12, only one MAIN board is mounted.

US-11: MAIN, JT and SK boards

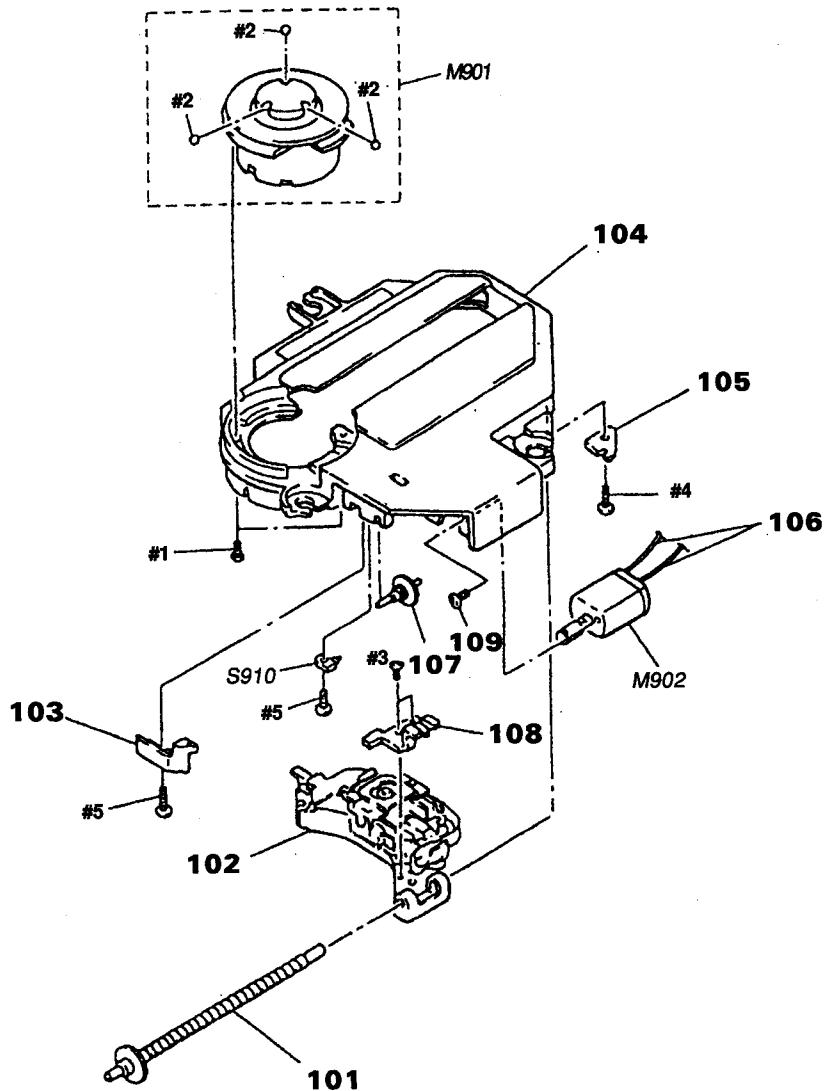
US-12: MAIN board



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|
| 51 | 4-912-641-01 | FOOT, RUBBER | |
| 52 | 4-959-439-01 | KNOB (HOLD) | |
| 53 | 4-959-431-01 | KNOB (IRUMI) | |
| 54 | 4-959-428-01 | SPRING (BUSHING) | |
| 55 | 4-959-418-01 | BUSHING | |
| 56 | A-3264-580-A | MAIN BOARD, COMPLETE | |
| 57 | 4-959-434-01 | KNOB (RESUME) | |
| 58 | 4-959-412-01 | INSULATOR, OIL | |
| *59 | 4-956-818-01 | RETAINER, FLEXIBLE | |
| 60 | 4-959-419-01 | TERMINAL BOARD (RELAY), BATTERY | |
| 61 | X-4943-928-1 | CABINET (LOWER) ASSY | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------|--------|
| 62 | 4-959-414-01 | HINGE, BATTERY | |
| 63 | 4-959-413-11 | LID, BATTERY CASE | |
| 64 | 4-959-437-01 | KNOB (AVLS) | |
| 65 | 4-959-425-11 | SPRING, COMPRESSION | |
| 66 | 4-961-119-01 | SPRING (B) (UPPER), COIL | |
| 67 | 4-959-425-01 | SPRING, COMPRESSION | |
| 68 | 4-961-118-01 | SPRING (A) (UPPER), COIL | |
| 69 | 4-959-424-01 | SPRING, COMPRESSION | |
| 70 | 1-649-727-11 | SK BOARD, (US-11) | |
| 71 | 1-649-598-11 | JT BOARD, (US-11) | |

**5-3. OPTICAL PICK-UP BLOCK SECTION
(KSM-331AAN (S))**



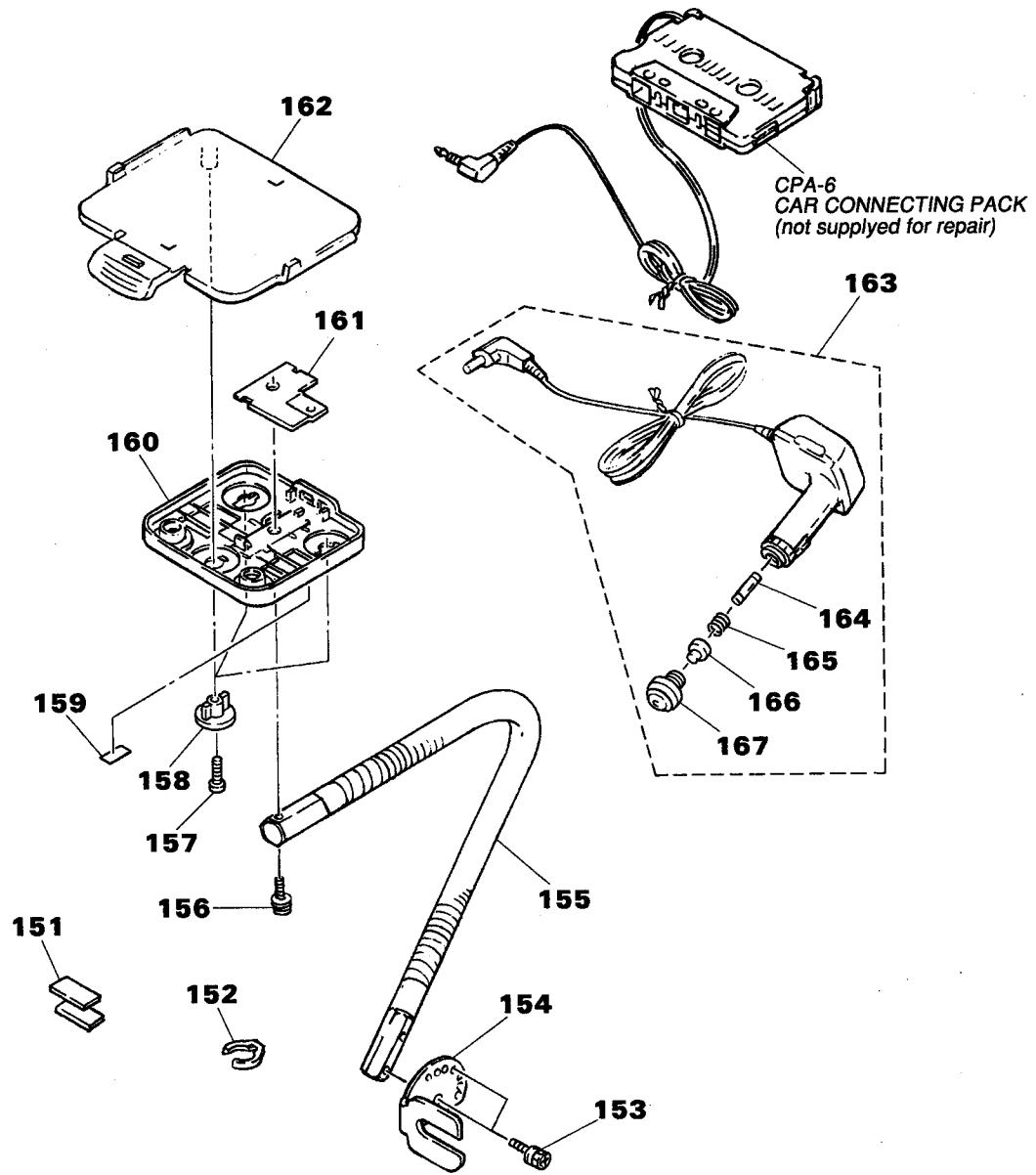
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark |
|--------------|--------------|--------------------------|--------|
| 101 | X-2625-483-1 | SCREW ASSY, SLED | |
| Δ 102 | 8-848-289-21 | DEVICE, OPTICAL KSS-331A | |
| 103 | 2-625-412-02 | SPRING, SLED | |
| 104 | 2-625-415-02 | CHASSIS, MD | |
| 105 | 2-625-411-01 | RETAINER, SHAFT | |
| 106 | 1-948-418-21 | HARNESS | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------|--------|
| 107 | 2-625-410-01 | GEAR (B) | |
| 108 | 2-625-414-02 | RACK | |
| 109 | 3-732-988-01 | SCREW (M2X2.5) | |
| M901 | X-2625-485-1 | MOTOR ASSY, T.T. | |
| M902 | X-2625-171-2 | MOTOR ASSY, SLED | |
| S910 | 1-570-771-11 | SWITCH (LIMI SW) | |

5-4. CAR MOUNT SECTION (CPM-302P)
(Tourist model)



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------|--------|
| 151 | 2-201-810-00 | TAPE, MAGIC | |
| 152 | 2-120-534-01 | CLAMP, CORD | |
| 153 | 7-683-323-07 | BOLT, HEXAGON | |
| 154 | 2-120-542-01 | BRACKET, BASE | |
| 155 | X-4943-745-1 | PIPE ASSY, FLEXIBLE | |
| 156 | 7-682-665-09 | SCREW +PS 4X16 | |
| 157 | 7-685-547-19 | SCREW +BTP 3X10 TYPE2 N-S | |
| 158 | 4-947-605-01 | BRACKET (LOWER) | |
| 159 | 3-704-222-11 | LABEL, SERIAL NUMBER | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|
| 160 | 4-958-719-11 | PLATE, BOTTOM | |
| 161 | 4-958-716-01 | HEAT SINK | |
| 162 | 4-959-655-01 | CABINET | |
| 163 | 1-751-087-11 | CORD, CAR BATTERY (DCC-E455) | |
| 164 | 1-532-360-XX | FUSE (125V/1A) | |
| 165 | 4-950-263-01 | SPRING | |
| 166 | 4-950-277-01 | CHIP | |
| 167 | 4-950-259-01 | CAP | |

SECTION 6

ELECTRICAL PARTS LIST

JT MAIN CN JACK

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

- **Abbreviations**

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

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

EA: Saudi Arabia

JE: Tourist

NOTE:

For the US model only, there are two kinds of last codes -11 and -12 assigned to the MAIN board.

For last code -11, JT and SK boards are attached.

For last code -12, only one MAIN board is mounted.

US-11: MAIN, JT and SK boards

US-12: MAIN board

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|----------|
| * | 1-649-598-11 | JT BOARD (US-11) ***** | |
| | | < CAPACITOR > | |
| C532 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| | | < DIODE > | |
| D501 | 8-719-938-72 | DIODE SB01-05CP | |
| | | < COIL > | |
| L521 | 1-412-034-11 | INDUCTOR CHIP 330uH | |
| | | ***** | |
| | | A-3264-580-A MAIN BOARD, COMPLETE ***** | |
| | | CN BOARD ***** | |
| | | JACK BOARD ***** | |
| | | X-4943-819-1 TERMINAL ASSY, BATTERY 4-959-421-01 TERMINAL BOARD (+), BATTERY 4-959-423-01 PLATE (LCD), LIGHT GUIDE 4-959-430-01 HOLDER (LCD) | |
| | | < CAPACITOR > | |
| C101 | 1-164-816-11 | CERAMIC CHIP 220PF | 2% 50V |
| C102 | 1-162-928-11 | CERAMIC CHIP 120PF | 5% 50V |
| C103 | 1-162-928-11 | CERAMIC CHIP 120PF | 5% 50V |
| C104 | 1-162-924-11 | CERAMIC CHIP 56PF | 5% 50V |
| C105 | 1-162-924-11 | CERAMIC CHIP 56PF | 5% 50V |
| C106 | 1-135-181-21 | TANTALUM CHIP 4.7uF | 20% 6.3V |
| C107 | 1-163-275-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C108 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C109 | 1-162-945-11 | CERAMIC CHIP 22PF | 5% 50V |
| C110 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C111 | 1-126-608-11 | ELECT 330uF | 20% 2V |
| C112 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C113 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C114 | 1-126-608-11 | ELECT 330uF | 20% 2V |
| C115 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C116 | 1-163-275-11 | CERAMIC CHIP 0.001uF | 5% 50V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------|------------------------|
| C201 | 1-164-816-11 | CERAMIC CHIP 220PF | 2% 50V |
| C202 | 1-162-928-11 | CERAMIC CHIP 120PF | 5% 50V |
| C203 | 1-162-928-11 | CERAMIC CHIP 120PF | 5% 50V |
| C204 | 1-162-924-11 | CERAMIC CHIP 56PF | 5% 50V |
| C205 | 1-162-924-11 | CERAMIC CHIP 56PF | 5% 50V |
| C206 | 1-135-181-21 | TANTALUM CHIP 4.7uF | 20% 6.3V |
| C207 | 1-163-275-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C208 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C209 | 1-162-945-11 | CERAMIC CHIP 22PF | 5% 50V |
| C210 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C211 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C212 | 1-162-275-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C213 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C214 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V |
| C215 | 1-164-156-11 | CERAMIC CHIP 1uF | 10V |
| C216 | 1-163-275-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C217 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C218 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V |
| C219 | 1-164-234-11 | CERAMIC CHIP 1uF | 10V |
| C220 | 1-126-207-11 | ELECT CHIP 33uF | 20% 4V |
| C221 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C222 | 1-104-847-91 | TANTAL. CHIP 22uF | 20% 4V |
| C223 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C224 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C225 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C226 | 1-104-908-91 | TANTALUM CHIP 47uF | 20% 4V |
| C227 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C228 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C229 | 1-135-181-21 | TANTALUM CHIP 4.7uF | 20% 6.3V |
| C230 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C231 | 1-104-847-91 | TANTAL. CHIP 22uF | 20% 4V |
| C232 | 1-164-234-11 | CERAMIC CHIP 1uF | 10V |
| C233 | 1-104-847-91 | TANTAL. CHIP 22uF | 20% 4V |
| C234 | 1-162-317-11 | TANTAL. CHIP 33uF | 20% 2.5V |
| C235 | 1-164-234-11 | CERAMIC CHIP 1uF | 10V |
| C236 | 1-104-847-91 | TANTAL. CHIP 22uF | 20% 4V |
| C237 | 1-162-953-11 | CERAMIC CHIP 100PF | 5% 50V |
| C238 | 1-164-005-11 | CERAMIC CHIP 0.47uF | 25V |
| C239 | 1-164-005-11 | CERAMIC CHIP 0.47uF | 25V |
| C240 | 1-135-210-11 | TANTAL. CHIP 4.7uF | 20% 10V (EXCEPT US-11) |
| C241 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C242 | 1-164-234-11 | CERAMIC CHIP 1uF | 10V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------|---------------------------|
| C355 | 1-164-234-11 | CERAMIC CHIP | 1uF 10V |
| C356 | 1-164-234-11 | CERAMIC CHIP | 1uF 10V |
| C357 | 1-164-234-11 | CERAMIC CHIP | 1uF 10V |
| C358 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C401 | 1-135-091-91 | TANTAL. CHIP | 1uF 20% 16V |
| C402 | 1-164-357-11 | CERAMIC CHIP | 1000PF 5% 50V |
| C403 | 1-162-949-11 | CERAMIC CHIP | 47PF 5% 50V |
| C404 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V |
| C405 | 1-164-373-11 | CERAMIC CHIP | 0.033uF 25V |
| C406 | 1-104-908-91 | TANTAL. CHIP | 47uF 20% 4V |
| C407 | 1-104-851-91 | TANTAL. CHIP | 10uF 20% 10V |
| C408 | 1-104-851-91 | TANTAL. CHIP | 10uF 20% 10V |
| C409 | 1-104-851-91 | TANTAL. CHIP | 10uF 20% 10V |
| C410 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C411 | 1-127-561-11 | ELECT(SOLID) | 33uF 20% 10V |
| C413 | 1-104-847-91 | TANTAL. CHIP | 22uF 20% 4V |
| C421 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C422 | 1-164-373-11 | CERAMIC CHIP | 0.033uF 25V |
| C423 | 1-162-969-11 | CERAMIC CHIP | 0.0068uF 10% 25V |
| C425 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C426 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C427 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C428 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C450 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C451 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C452 | 1-104-847-91 | TANTAL. CHIP | 22uF 20% 4V(EXCEPT US-11) |
| C501 | 1-135-317-11 | TANTAL. CHIP | 33uF 20% 2.5V |
| C503 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C504 | 1-162-917-11 | CERAMIC CHIP | 15PF 5% 50V |
| C505 | 1-164-344-11 | CERAMIC CHIP | 0.068uF 10% 25V |
| C506 | 1-162-941-11 | CERAMIC CHIP | 10PF 0.5PF 50V |
| C507 | 1-104-847-91 | TANTAL. CHIP | 22uF 20% 4V |
| C510 | 1-104-908-91 | TANTAL. CHIP | 47uF 20% 4V |
| C520 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C529 | 1-104-852-91 | TANTAL. CHIP | 22uF 20% 10V |
| C530 | 1-126-530-11 | ELECT | 22uF 20% 10V |
| C531 | 1-126-530-11 | ELECT | 22uF 20% 10V |
| C532 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V (EXCEPT US-11) |
| C533 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C601 | 1-164-362-11 | CERAMIC CHIP | 470PF 5% 50V |
| C602 | 1-164-473-11 | CERAMIC CHIP | 820PF 5% 50V |
| C603 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C604 | 1-164-361-11 | CERAMIC CHIP | 0.047uF 16V |
| C605 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF 10% 50V |
| C606 | 1-162-953-11 | CERAMIC CHIP | 100PF 5% 50V |
| C607 | 1-135-145-11 | TANTALUM CHIP | 0.47uF 10% 35V |
| C609 | 1-162-953-11 | CERAMIC CHIP | 100PF 5% 50V |
| C610 | 1-162-953-11 | CERAMIC CHIP | 100PF 5% 50V |

| Ref. No. | Part No. | Description | Remark |
|---|--------------|------------------------------|------------------|
| C611 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C612 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C630 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V |
| C650 | 1-104-848-91 | TANTAL. CHIP | 100uF 20% 4V |
| C652 | 1-164-217-11 | CERAMIC CHIP | 150PF 5% 50V |
| C653 | 1-135-149-21 | TANTALUM CHIP | 2.2uF 20% 10V |
| C654 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C655 | 1-162-953-11 | CERAMIC CHIP | 100PF 5% 50V |
| C656 | 1-164-234-11 | CERAMIC CHIP | 1uF 10V |
| C657 | 1-164-373-11 | CERAMIC CHIP | 0.033uF 25V |
| C658 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF 10% 50V |
| C801 | 1-135-181-21 | TANTALUM CHIP | 4.7uF 20% 6.3V |
| C802 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 50V |
| C803 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 50V |
| C804 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 50V |
| C807 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C832 | 1-164-234-11 | CERAMIC CHIP | 1uF 10V |
| C834 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C835 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C836 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C837 | 1-162-945-11 | CERAMIC CHIP | 22PF 5% 50V |
| C838 | 1-164-373-11 | CERAMIC CHIP | 0.033uF 25V |
| C901 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 50V |
| < CONNECTOR > | | | |
| CN402 | 1-568-330-11 | CONNECTOR, BOARD TO BOARD 6P | |
| CN403 | 1-568-330-11 | CONNECTOR, BOARD TO BOARD 6P | |
| CN404 | 1-568-362-11 | CONNECTOR, BOARD TO BOARD 6P | |
| CN405 | 1-568-362-11 | CONNECTOR, BOARD TO BOARD 6P | |
| CN501 | 1-566-534-11 | CONNECTOR, FPC (ZIF) 18P | |
| * CN502 1-695-320-11 PIN, CONNECTOR (1.5MM) (SMD) 2P | | | |
| * CN503 1-695-320-31 PIN, CONNECTOR (1.5MM) (SMD) 2P | | | |
| * CN504 1-695-320-51 PIN, CONNECTOR (1.5MM) (SMD) 2P | | | |
| < JACK > | | | |
| CNJ401 1-568-907-21 JACK, DC(POLARITY UNIFIED TYPE) (DC IN 4.5V) | | | |
| < DIODE > | | | |
| D101 | 8-719-040-00 | DIODE | UMZ8.2T-T106 |
| D102 | 8-719-040-00 | DIODE | UMZ8.2T-T106 |
| D201 | 8-719-040-00 | DIODE | UMZ8.2T-T106 |
| D202 | 8-719-040-00 | DIODE | UMZ8.2T-T106 |
| D301 | 8-719-023-69 | DIODE | SB007T03Q |
| D303 | 8-719-941-23 | DIODE | DA204U |
| D350 | 8-719-988-78 | DIODE | SB007W03Q |
| D401 | 8-719-938-72 | DIODE | SB01-05CP |
| D402 | 8-719-988-78 | DIODE | SB007W03Q |

MAIN **CN** **JACK**

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|----------------------------------|
| D403 | 8-719-938-72 | DIODE | SB01-05CP |
| D404 | 8-719-975-33 | DIODE | RB110C |
| D405 | 8-719-938-75 | DIODE | SB05-05CP |
| D501 | 8-719-938-72 | DIODE | SB01-05CP (EXCEPT US-11) |
| D601 | 8-719-977-12 | DIODE | MA8068 |
| D801 | 8-719-404-46 | DIODE | MA110 |
| D802 | 8-719-941-86 | DIODE | DAN202U |
| D803 | 8-719-404-46 | DIODE | MA110 |
| D804 | 8-719-800-76 | DIODE | 1SS226 |
| D805 | 8-719-977-12 | DIODE | MA8068 |
| D806 | 8-719-105-91 | DIODE | RD5.6M-B2 |
| D807 | 8-719-975-33 | DIODE | RB110C |
| D808 | 8-719-421-27 | DIODE | MA728 (EXCEPT US-11) |
| D809 | 8-719-404-46 | DIODE | MA110 (EXCEPT US-11) |
| D901 | 8-719-987-45 | LED | CL-155Y/PG-CD(■STOP/DISPLAY OFF) |
| D902 | 8-719-987-45 | LED | CL-155Y/PG-CD (■■) |
| D903 | 8-719-987-45 | LED | CL-155Y/PG-CD (■■) |
| D904 | 8-719-987-45 | LED | CL-155Y/PG-CD (■■) |
| D905 | 8-719-987-45 | LED | CL-155Y/PG-CD (▶) |
| D906 | 8-719-987-45 | LED | CL-155Y/PG-CD (LCD BACK LIGHT) |
| D907 | 8-719-987-45 | LED | CL-155Y/PG-CD (LCD BACK LIGHT) |
| D908 | 8-719-987-45 | LED | CL-155Y/PG-CD (LCD BACK LIGHT) |
| D909 | 8-719-987-45 | LED | CL-155Y/PG-CD (LCD BACK LIGHT) |
| D910 | 8-719-987-45 | LED | CL-155Y/PG-CD (LCD BACK LIGHT) |
| D911 | 8-719-987-45 | LED | CL-155Y/PG-CD (REPEAT/ENTER) |
| D912 | 8-719-987-45 | LED | CL-155Y/PG-CD (PLAY MODE) |
| D913 | 8-719-987-45 | LED | CL-155Y/PG-CD (DSP) |
| D914 | 8-719-987-45 | LED | CL-155Y/PG-CD (SURROUND) |
| D915 | 8-719-987-45 | LED | CL-155Y/PG-CD (OPEN) |
| D916 | 8-719-987-45 | LED | CL-155Y/PG-CD (OPEN) |
| D939 | 8-719-420-51 | DIODE | MA729 |

< IC >

| | | | |
|-------|--------------|----|---------------------|
| IC301 | 8-759-177-68 | IC | SM5853BF-EL |
| IC302 | 8-759-177-70 | IC | TLV2362IDB-ELL1000 |
| IC303 | 8-759-161-75 | IC | NJM2112V(TE2) |
| IC304 | 8-759-048-93 | IC | LA4534M |
| IC401 | 8-759-097-95 | IC | MB3776APNF-G-SNY-ER |
| IC402 | 8-759-176-73 | IC | RS5RJ32271-T1 |
| IC403 | 8-759-177-70 | IC | TLV2362IDB-ELL1000 |
| IC501 | 8-752-059-39 | IC | CXA1571N |
| IC502 | 8-759-179-60 | IC | MPC17A38VMEL |
| IC601 | 8-752-351-94 | IC | CXD2515Q |
| IC605 | 8-759-179-64 | IC | BA3890F |
| IC606 | 8-759-177-71 | IC | TLC2931IDB-ELL1000 |
| IC801 | 8-752-845-09 | IC | CXP83916-603Q |
| IC802 | 8-749-923-29 | IC | RS-20E-T |

| Ref. No. | Part No. | Description | Remark |
|----------------------------|--------------|------------------------------|----------------------|
| < JACK > | | | |
| J301 | 1-565-287-41 | JACK (LINE OUT) | |
| J302 | 1-580-680-11 | JACK (Ω/REMOTE) | |
| < JUMPER RESISTOR > | | | |
| JR610 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| JR625 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| JR626 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| JR627 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| < COIL > | | | |
| L101 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L105 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L201 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L205 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L301 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L302 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L303 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L304 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L305 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L306 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L401 | 1-423-636-11 | TRANSFORMER, DC-DC CONVERTER | |
| L402 | 1-412-622-51 | INDUCTOR | 10uH |
| L403 | 1-412-630-51 | INDUCTOR | 47uH |
| L404 | 1-412-029-11 | INDUCTOR CHIP | 10uH |
| L405 | 1-412-029-11 | INDUCTOR CHIP | 10uH |
| L501 | 1-412-029-11 | INDUCTOR CHIP | 10uH |
| L521 | 1-412-034-11 | INDUCTOR CHIP | 330uH (EXCEPT US-11) |
| L530 | 1-412-039-51 | INDUCTOR CHIP | 100uH |
| L531 | 1-412-244-31 | INDUCTOR | 150uH |
| L532 | 1-412-039-51 | INDUCTOR CHIP | 100uH |
| L603 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| L604 | 1-414-135-11 | INDUCTOR CHIP | BLM21A10 |
| < LIQUID CRYSTAL DISPLAY > | | | |
| LCD801 | 1-810-190-11 | LCD | |
| < PILOT LAMP > | | | |
| PL901 | 1-518-259-00 | LAMP, PILOT | |
| < TRANSISTOR > | | | |
| Q301 | 8-729-425-18 | TRANSISTOR | XN4504 |
| Q302 | 8-729-422-39 | TRANSISTOR | XN4404 |
| Q303 | 8-729-902-93 | TRANSISTOR | FMG4 |
| Q304 | 8-729-425-18 | TRANSISTOR | XN4504 |
| Q305 | 8-729-902-90 | TRANSISTOR | FMA4 |
| Q310 | 8-729-230-60 | TRANSISTOR | 2SA1586-YG |
| Q320 | 8-729-231-74 | TRANSISTOR | 2SC4116-GL |
| Q330 | 8-729-904-86 | TRANSISTOR | 2SB1197K-Q |
| Q331 | 8-729-903-10 | TRANSISTOR | FMW1 |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|--------------|--------------|-------------|-------------------------|----------|--------------|-------------|---------------|
| Q332 | 8-729-141-75 | TRANSISTOR | 2SD596DV345 | R113 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| Q350 | 8-729-907-39 | TRANSISTOR | IMD2 | R114 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q351 | 8-729-402-XX | TRANSISTOR | XN4112 | R115 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q401 | 8-729-905-61 | TRANSISTOR | DTC124EU | R116 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| Q403 | 8-729-920-56 | TRANSISTOR | FMG1 | R117 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/16W |
| Q404 | 8-729-923-36 | TRANSISTOR | 2SD1963-Q.R | R118 | 1-216-796-11 | METAL GLAZE | 8.2 5% 1/16W |
| Q405 | 8-729-022-67 | TRANSISTOR | 2SC3650-TD | R119 | 1-216-793-11 | METAL GLAZE | 4.7 5% 1/16W |
| Q406 | 8-729-403-02 | TRANSISTOR | XN4212 | R120 | 1-216-815-11 | METAL CHIP | 330 5% 1/16W |
| Q407 | 8-729-905-57 | TRANSISTOR | DTA124EU | R121 | 1-216-789-11 | METAL CHIP | 2.2 5% 1/16W |
| Q408 | 8-729-922-34 | TRANSISTOR | 2SD1758F5-QR | R122 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/16W |
| Q409 | 8-729-905-57 | TRANSISTOR | DTA124EU | R123 | 1-216-819-11 | METAL CHIP | 680 5% 1/16W |
| Q410 | 8-729-231-74 | TRANSISTOR | 2SC4116-GL | R124 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| Q421 | 8-729-230-60 | TRANSISTOR | 2SA1586-YG | R125 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| Q501 | 8-729-904-86 | TRANSISTOR | 2SB1197K-Q | R130 | 1-216-846-11 | METAL CHIP | 120K 5% 1/16W |
| Q502 | 8-729-922-94 | TRANSISTOR | DTC143TU | R201 | 1-216-834-11 | METAL CHIP | 12K 5% 1/16W |
| Q503 | 8-729-924-79 | TRANSISTOR | FMG8 | R202 | 1-216-834-11 | METAL CHIP | 12K 5% 1/16W |
| Q504 | 8-729-924-79 | TRANSISTOR | FMG8 | R203 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q505 | 8-729-907-39 | TRANSISTOR | IMD2 | R204 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q506 | 8-729-905-61 | TRANSISTOR | DTC124EU | R205 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| Q603 | 8-729-231-74 | TRANSISTOR | 2SC4116-GL | R206 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| Q810 | 8-729-231-74 | TRANSISTOR | 2SC4116-GL | R207 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| Q811 | 8-729-924-04 | TRANSISTOR | DTA143TU | R208 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| Q812 | 8-729-905-18 | TRANSISTOR | DTC144EU (EXCEPT US-11) | R209 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| Q901 | 8-729-141-75 | TRANSISTOR | 2SD596DV345 | R210 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| Q902 | 8-729-141-75 | TRANSISTOR | 2SD596DV345 | R211 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| Q903 | 8-729-905-61 | TRANSISTOR | DTA124EU | R212 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/16W |
| Q904 | 8-729-806-75 | TRANSISTOR | 2SB1120 | R213 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| Q905 | 8-729-903-10 | TRANSISTOR | FMW1 | R214 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q906 | 8-729-903-10 | TRANSISTOR | FMW1 | R215 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| Q908 | 8-729-924-79 | TRANSISTOR | FMG8 | R216 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| Q909 | 8-729-924-79 | TRANSISTOR | FMG8 | R217 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| Q910 | 8-729-903-10 | TRANSISTOR | FMW1 | R218 | 1-216-796-11 | METAL GLAZE | 8.2 5% 1/16W |
| Q911 | 8-729-924-79 | TRANSISTOR | FMG8 | R219 | 1-216-793-11 | METAL GLAZE | 4.7 5% 1/16W |
| Q912 | 8-729-905-57 | TRANSISTOR | DTA124EU | R220 | 1-216-815-11 | METAL CHIP | 330 5% 1/16W |
| < RESISTOR > | | | | R221 | 1-216-789-11 | METAL CHIP | 2.2 5% 1/16W |
| R101 | 1-216-834-11 | METAL CHIP | 12K 5% 1/16W | R222 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/16W |
| R102 | 1-216-834-11 | METAL CHIP | 12K 5% 1/16W | R223 | 1-216-819-11 | METAL CHIP | 680 5% 1/16W |
| R103 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W | R224 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R104 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W | R225 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R105 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W | R230 | 1-216-846-11 | METAL CHIP | 120K 5% 1/16W |
| R106 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W | R301 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R107 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W | R302 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R108 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W | R303 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R109 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R304 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R110 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W | R305 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R111 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W | R306 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R112 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/16W | R307 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| | | | | R308 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |

MAIN **CN** **JACK**

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|-----------------|
| R309 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R310 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R320 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R321 | 1-216-811-11 | METAL CHIP | 150 5% 1/16W |
| R322 | 1-216-822-11 | METAL CHIP | 1.2K 5% 1/16W |
| R323 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R324 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R325 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R326 | 1-216-025-00 | METAL CHIP | 100 5% 1/10W |
| R327 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R328 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R330 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R331 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R332 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R333 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R334 | 1-218-705-11 | METAL GLAZE | 3.6K 5% 1/16W |
| R339 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R340 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R360 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R361 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R362 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R363 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R401 | 1-218-716-11 | METAL CHIP | 10K 0.50% 1/16W |
| R402 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W |
| R403 | 1-216-824-11 | METAL CHIP | 1.8K 5% 1/16W |
| R404 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R405 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R409 | 1-218-720-11 | METAL CHIP | 15K 0.50% 1/16W |
| R410 | 1-218-734-11 | METAL CHIP | 56K 0.50% 1/16W |
| R411 | 1-218-724-11 | METAL CHIP | 22K 0.50% 1/16W |
| R412 | 1-218-724-11 | METAL CHIP | 22K 0.50% 1/16W |
| R413 | 1-217-671-11 | METAL CHIP | 1 5% 1/10W |
| R414 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R415 | 1-217-671-11 | METAL CHIP | 1 5% 1/10W |
| R417 | 1-216-806-11 | METAL GLAZE | 56 5% 1/16W |
| R418 | 1-216-835-11 | METAL CHIP | 15K 5% 1/16W |
| R419 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/16W |
| R420 | 1-218-330-11 | METAL CHIP | 11K 0.50% 1/16W |
| R421 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R422 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R423 | 1-216-846-11 | METAL CHIP | 120K 5% 1/16W |
| R427 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R428 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R429 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R430 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R431 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R436 | 1-216-831-11 | METAL CHIP | 6.8K 5% 1/16W |
| R437 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R438 | 1-216-854-11 | METAL CHIP | 560K 5% 1/16W |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|------------------------------|
| R501 | 1-217-671-11 | METAL CHIP | 1 5% 1/10W |
| R502 | 1-216-835-11 | METAL CHIP | 15K 5% 1/16W |
| R503 | 1-218-290-11 | METAL GLAZE | 6.2K 5% 1/16W |
| R504 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R505 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R506 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R507 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R508 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| R509 | 1-218-332-11 | METAL GLAZE | 130K 5% 1/16W |
| R510 | 1-216-850-11 | METAL CHIP | 270K 5% 1/16W |
| R511 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R512 | 1-216-822-11 | METAL CHIP | 1.2K 5% 1/16W |
| R513 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R514 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R515 | 1-216-847-11 | METAL CHIP | 150K 5% 1/16W |
| R528 | 1-218-736-11 | METAL CHIP | 68K 0.50% 1/16W |
| R529 | 1-218-736-11 | METAL CHIP | 68K 0.50% 1/16W |
| R530 | 1-218-736-11 | METAL CHIP | 68K 0.50% 1/16W |
| R531 | 1-218-736-11 | METAL CHIP | 68K 0.50% 1/16W |
| R532 | 1-218-744-11 | METAL CHIP | 150K 0.50% 1/16W |
| R533 | 1-218-744-11 | METAL CHIP | 150K 0.50% 1/16W |
| R534 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R535 | 1-216-065-00 | METAL CHIP | 4.7K 5% 1/10W |
| R536 | 1-216-067-00 | METAL GLAZE | 5.6K 5% 1/10W |
| R537 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R538 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| R539 | 1-218-286-11 | METAL GLAZE | 91 5% 1/16W |
| R550 | 1-218-716-11 | METAL CHIP | 10K 0.50% 1/16W |
| R571 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| R572 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R601 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R602 | 1-216-835-11 | METAL CHIP | 15K 5% 1/16W |
| R603 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R604 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R605 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W |
| R606 | 1-216-831-11 | METAL CHIP | 6.8K 5% 1/16W |
| R607 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W |
| R608 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R609 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R612 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R615 | 1-218-740-11 | METAL CHIP | 100K 0.50% 1/16W |
| R621 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R623 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W (EXCEPT US-11) |
| R631 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R650 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R651 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R652 | 1-218-740-11 | METAL CHIP | 100K 0.50% 1/16W |
| R654 | 1-218-716-11 | METAL CHIP | 10K 0.50% 1/16W |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|-----------------------------|
| R655 | 1-216-822-11 | METAL CHIP | 1.2K 5% 1/16W |
| R656 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R657 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R667 | 1-218-740-11 | METAL CHIP | 100K 0.50% 1/16W |
| R668 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R669 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R670 | 1-216-861-11 | METAL CHIP | 2.2M 5% 1/16W |
| R673 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R801 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R802 | 1-218-345-11 | METAL GLAZE | 9.1K 5% 1/16W |
| R803 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R804 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R805 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R806 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R808 | 1-216-849-11 | METAL CHIP | 220K 5% 1/16W(EXCEPT US-11) |
| R811 | 1-218-716-11 | METAL CHIP | 10K 0.50% 1/16W |
| R812 | 1-216-820-11 | METAL CHIP | 820 5% 1/16W |
| R813 | 1-216-822-11 | METAL CHIP | 1.2K 5% 1/16W |
| R814 | 1-216-824-11 | METAL CHIP | 1.8K 5% 1/16W |
| R815 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/16W |
| R816 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W |
| R817 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R818 | 1-216-838-11 | METAL CHIP | 27K 5% 1/16W |
| R821 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R822 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R823 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R824 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R825 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R826 | 1-216-851-11 | METAL CHIP | 330K 5% 1/16W |
| R827 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R828 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R829 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R830 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R831 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R832 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R833 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| R834 | 1-216-843-11 | METAL CHIP | 68K 5% 1/16W |
| R835 | 1-216-861-11 | METAL CHIP | 2.2M 5% 1/16W |
| R836 | 1-216-854-11 | METAL CHIP | 560K 5% 1/16W |
| R837 | 1-216-811-11 | METAL CHIP | 150 5% 1/16W |
| R841 | 1-218-717-11 | METAL CHIP | 11K 0.50% 1/16W |
| R842 | 1-218-734-11 | METAL CHIP | 56K 0.50% 1/16W |
| R843 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R844 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R845 | 1-216-861-11 | METAL CHIP | 2.2M 5% 1/16W(US-11) |
| R901 | 1-216-799-11 | METAL CHIP | 15 5% 1/16W |
| R902 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R903 | 1-216-799-11 | METAL CHIP | 15 5% 1/16W |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|---------------|
| R904 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R905 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R906 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R907 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R908 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R909 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R910 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R911 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R912 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R913 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R914 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R915 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R916 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R917 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R918 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R919 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R920 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R921 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R922 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R923 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R924 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R927 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R928 | 1-216-817-11 | METAL CHIP | 470 5% 1/16W |
| R929 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R931 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R932 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R933 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R934 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R935 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R936 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R937 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R938 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R939 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R940 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R941 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R942 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R943 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R944 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W |
| R945 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R946 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R947 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R948 | 1-216-835-11 | METAL CHIP | 15K 5% 1/16W |

< VARIABLE RESISTOR >

RV301 1-223-444-21 RES, VAR, CARBON 10K/10K (VOLUME)
RV650 1-223-274-11 RES, ADJ 2.2K

MAIN **CN** **JACK** **SK**

| Ref. No. | Part No. | Description | Remark |
|----------------|--------------|---------------------------------------|--------|
| < SWITCH > | | | |
| S301 | 1-571-506-41 | SWITCH, SLIDE (AVLS) | |
| S401 | 1-572-126-11 | SWITCH, PUSH (1 KEY) (BATTERY DETECT) | |
| S801 | 1-570-953-11 | SWITCH, PUSH (1 KEY) (OPEN) | |
| S802 | 1-572-908-11 | SWITCH, SLIDE (RESUME) | |
| S811 | 1-572-272-11 | SWITCH, SLIDE (HOLD) | |
| S820 | 1-692-459-11 | SWITCH (► II) | |
| S821 | 1-692-459-11 | SWITCH (■ STOP/DISPLAY OFF) | |
| S822 | 1-692-459-11 | SWITCH (▶) | |
| S823 | 1-692-459-11 | SWITCH (◀) | |
| S824 | 1-692-459-11 | SWITCH (REPEAT/ENTER) | |
| S825 | 1-692-459-11 | SWITCH (PLAY MODE) | |
| S826 | 1-692-459-11 | SWITCH (DSP) | |
| S827 | 1-692-459-11 | SWITCH (SURROUND) | |
| S901 | 1-572-272-11 | SWITCH, SLIDE (ILLUMINATION) | |
| < THERMISTOR > | | | |
| TH601 | 1-810-236-11 | THERMISTOR, POSITIVE | |
| < VIBRATOR > | | | |
| X301 | 1-760-023-21 | VIBRATOR, CRYSTAL (16.9MHz) | |
| X801 | 1-579-063-21 | VIBRATOR, CERAMIC (4.19MHz) | |
| ***** | | | |
| * | 1-649-727-11 | SK BOARD (US-11) | ***** |
| < CAPACITOR > | | | |
| C452 | 1-104-847-91 | TANTAL. CHIP 22uF 20% 4V | |
| < DIODE > | | | |
| D808 | 8-719-404-46 | DIODE MA110 | |
| D809 | 8-719-421-27 | DIODE MA728 | |
| < TRANSISTOR > | | | |
| Q812 | 8-729-905-18 | TRANSISTOR DTC144EU | |
| < RESISTOR > | | | |
| R808 | 1-216-849-11 | METAL CHIP 220K 5% 1/16W | |
| ***** | | | |
| MISCELLANEOUS | | | |
| ***** | | | |
| △102 | 8-848-289-21 | DEVICE, OPTICAL KSS-331A | |
| M901 | X-2625-485-1 | MOTOR ASSY, T.T. | |
| M902 | X-2625-171-2 | MOTOR ASSY, SLED | |
| S910 | 1-570-771-11 | SWITCH (LIMIT) | |
| ***** | | | |

| Ref. No. | Part No. | Description | Remark |
|--------------------------------|--------------|--|--------|
| ACCESORIES & PACKING MATERIALS | | | |
| ***** | | | |
| | X-4943-745-1 | PIPE ASSY, FLEXIBLE (JE) | |
| △ | 1-467-007-21 | ADAPTOR, AC (AC-E455) (AUS) | |
| △ | 1-467-008-11 | ADAPTOR, AC (AC-E455) (AEC, AEL) | |
| △ | 1-467-009-11 | ADAPTOR, AC (AC-E455) (US, Canadian) | |
| △ | 1-467-011-11 | ADAPTOR, AC (AC-E455) (E, JE) | |
| △ | 1-467-012-11 | ADAPTOR, AC (AC-E455) (EA) | |
| | 1-467-210-11 | REMOTE COMMANDER (RM-DM10) | |
| | 1-532-360-XX | FUSE (125V/1A) (JE) | |
| | 1-555-658-21 | CORD, CONNECTION (EA) | |
| △ | 1-569-007-11 | ADAPTER, CONVERSION 2P (E, JE) | |
| △ | 1-569-008-11 | ADAPTER, CONVERSION 2P (EA) | |
| | 1-575-195-11 | CORD, CONNECTION (EA) | |
| | 1-751-087-11 | CORD, CAR BATTERY (DCC-E455) (JE) | |
| | 1-751-419-11 | CORD, CONNECTION (US, Canadian, AEC, AEL, E, AUS, JE) | |
| | 2-120-534-01 | CLAMP, CORD (JE) | |
| * | 2-120-542-01 | BRAKET, BASE (JE) | |
| | 2-201-810-00 | TAPE, MAGIC (JE) | |
| | 3-757-245-11 | MANUAL, INSTRUCTION (FRENCH, SPANISH) (Candian, AEC, AEL, E, EA) | |
| | 3-757-245-21 | MANUAL, INSTRUCTION (ENGLISH) (US, Canadian, AEC, AEL, E, EA, AUS,) | |
| | 3-757-245-41 | MANUAL, INSTRUCTION (DUTCH, SWEDISH, PORTUGUESE) (AEC) | |
| | 3-757-245-51 | MANUAL, INSTRUCTION (GERMAN, ITALIAN) (AEL) | |
| | 3-757-245-61 | MANUAL, INSTRUCTION (CHINESE, KOREAN, JAPANESE) (JE) | |
| | 3-757-245-71 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (JE) | |
| * | 4-957-230-01 | CUSHION (UPPER) | |
| * | 4-959-842-01 | INDIVIDUAL CARTON (US, Canadian) | |
| * | 4-959-846-01 | INDIVIDUAL CARTON (AEC, AEL, E, EA) | |
| * | 4-959-847-01 | CUSHION (LOWER) (AEC, AEL, E, EA, JE) | |
| * | 4-959-857-01 | CUSHION (LOWER) (US, Canadian) | |
| * | 4-959-864-01 | CUSHION (LOWER) (AUS) | |
| | 4-960-178-01 | TAPE (REMOTE CONTROL), MAGIC | |
| * | 4-960-778-01 | INDIVIDUAL CARTON (AUS) | |
| * | 4-960-780-01 | INDIVIDUAL CARTON (JE) | |
| * | 4-960-845-01 | INDIVIDUAL CARTON (CPM-302P) (JE) | |
| | 4-961-140-01 | LID, BATTERY CASE (RM-DM10) | |
| | 7-682-665-09 | SCREW +PS 4X16 (JE) | |
| | 7-683-323-07 | BOLT, HEXAGON (JE) | |
| ***** | | | |

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description | Remark |
|---------|----------|-------------|--------|
|---------|----------|-------------|--------|

HARDWARE LIST

- #1 7-627-852-17 +P 1.7X4
- #2 7-671-155-01 STEEL BALL 3.0
- #3 7-627-852-18 SCREW, PRECISION +P 1.7X4 TYPE3
- #4 7-685-104-19 SCREW (2X6), TAPPING (B)
- #5 7-685-105-19 SCREW (2X8), TAPPING (B)

D-822K

9-957-962-11

**Sony Corporation
General Audio Group**

Published by Audio Sector Quality Assurance Dept.

-46-

**English
93F1861-1
Printed in Japan
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