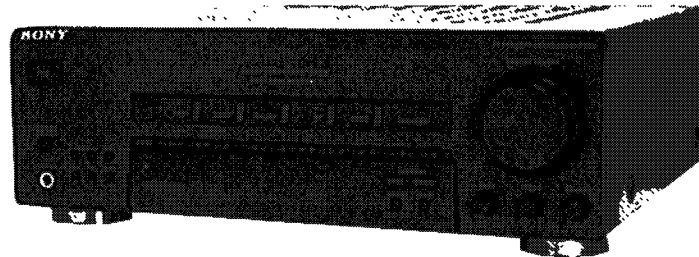


# STR-V200

## SERVICE MANUAL

US Model



This receiver incorporates the Dolby\* Pro Logic Surround system.

\* Manufactured under license from Dolby Laboratories Licensing Corporation.  
DOLBY, the double-D symbol  $\square\square$  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 50 watts per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output.

#### Amplifier section

##### POWER OUTPUT

**Stereo mode** (8 ohms 20 Hz - 20 kHz, THD 0.09%)  
50 W + 50 W

**Surround mode** (8 ohms at 1 kHz, THD 0.8%)  
Front: 50 W/ch  
Center\*: 50 W  
Rear\*: 50 W/ch  
\* Depending on the surround mode and the source, sound will not be output.

### SPECIFICATIONS

#### Frequency response

CD, TAPE/MD, TV/DBS,  
VIDEO:  
10 Hz - 50 kHz  $\pm 1$  dB

#### Inputs

|                        | Sensitivity | Impedance  | S/N<br>(weighting network, input level) |
|------------------------|-------------|------------|-----------------------------------------|
| CD                     | 200 mV      |            | 82 dB                                   |
| TAPE/MD, TV/DBS, VIDEO | 150 mV      | 50 kilohms | (A, 150 mV)                             |

#### Outputs

TAPE/MD REC OUT:  
Voltage: 150 mV,  
Impedance: 10 kilohms  
VIDEO AUDIO OUT:  
Voltage: 150 mV,  
Impedance: 10 kilohms  
MIX AUDIO OUT:  
Voltage: 2 V  
Impedance: 10 kilohms

#### PHONES:

Accepts low and high impedance headphones

#### MUTING

Full mute

#### BASS BOOST

+10 dB at 70 Hz

#### TONE

$\pm 8$  dB at 100 Hz and 10 kHz

#### FM tuner section

Tuning range 87.5 - 108.0 MHz

#### Antenna terminals

300 ohms, balanced  
75 ohms, unbalanced

#### Sensitivity

Mono: 18.3 dBf, 4.5  $\mu$ V  
Stereo: 38.3 dBf, 45  $\mu$ V

#### Usable sensitivity

11.2 dBf, 2  $\mu$ V (IHF)

#### S/N

Mono: 0.3%  
Stereo: 0.5%

— Continued on next page —

## FM STEREO/FM-AM RECEIVER



# SONY®

|                              |                             |
|------------------------------|-----------------------------|
| Harmonic distortion at 1 kHz | 0.5%                        |
| Separation                   | 45 dB at 1 kHz              |
| Frequency response           | 30 Hz - 15 kHz $\pm 1.5$ dB |
| Selectivity                  | 60 dB at 400 kHz            |

#### AM tuner section

|                     |                                        |
|---------------------|----------------------------------------|
| Tuning range        | With 10 kHz interval: 530 - 1710 kHz** |
| Antenna             | Loop antenna                           |
| Usable sensitivity  | 50 dB/m (at 1,000 kHz)                 |
| S/N                 | 54 dB (at 50 mV/m)                     |
| Harmonic distortion | 0.5% (50 mV/m, 400 Hz)                 |
| Selectivity         | At 10 kHz: 40 dB                       |

\*\* You can change the AM tuning interval to 9 kHz or to 10 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the I/⏻ button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz, repeat the procedure.

#### General

|        |                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System | Tuner section:<br>PLL quartz-locked digital synthesizer system<br>Preamplifier section:<br>Low-noise NF type equalizer<br>Power amplifier section:<br>Pure-complementary SEPP |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                 |
|--------------------|-----------------|
| Power requirements | 120 V AC, 60 Hz |
|--------------------|-----------------|

|                   |       |
|-------------------|-------|
| Power consumption | 150 W |
|-------------------|-------|

|            |                               |
|------------|-------------------------------|
| AC outlets | 1 switched, 120 W/1 A maximum |
|------------|-------------------------------|

|            |                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------|
| Dimensions | 355 × 120 × 325 mm<br>(14 × 4 $\frac{3}{4}$ × 12 $\frac{3}{4}$ inches)<br>including projecting parts and controls |
|------------|-------------------------------------------------------------------------------------------------------------------|

|                |                |
|----------------|----------------|
| Mass (Approx.) | 5.9 kg (13 lb) |
|----------------|----------------|

#### Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

## SAFETY CHECK-OUT

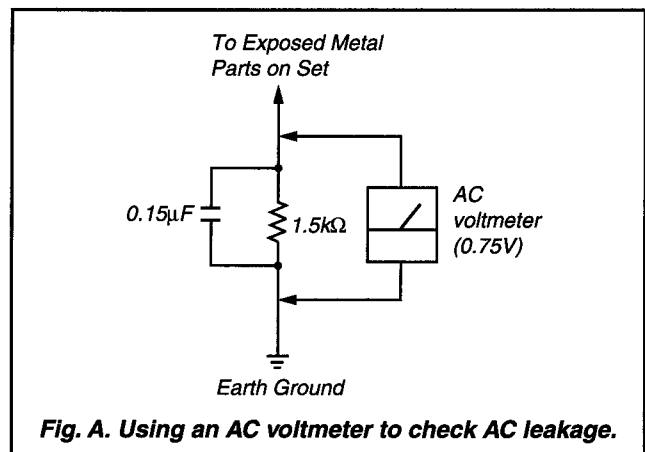
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



**Fig. A. Using an AC voltmeter to check AC leakage.**

## 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.

## SAFETY-RELATED COMPONENT WARNING !!

**COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  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.**

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## SECTION 1 SERVICING NOTE

### FACTORY SET

Mode which sets the preset settings of the unit to that at shipment.

#### Procedure:

While pressing the **VIDEO** button and **TV/DBS** button together, press the **I/⏻** button to turn on the power.  
“FACTORY” will be displayed and factory settings executed.

### INITIALIZATION

Mode which erases all the preset settings of the unit.

Use this mode when returning the unit to the customer.

#### Procedure:

While pressing the **VIDEO** button, **TV/DBS** button, and **TAPE/MD** button together, press the **I/⏻** button to turn on the power.  
“INITIAL” will be displayed and initialization executed.

### FLUORESCENT INDICATOR TUBE LIGHTING CHECK

Mode which lights up the whole fluorescent indicator tube or partially.

#### Procedure:

While pressing the **TV/DBS** button and **TAPE/MD** button together, press the **I/⏻** button to turn on the power.  
The fluorescent indicator tube will light up in about 0.5 seconds, and then start to light up partially. After partial lighting completes, the **BASS BOOST** indicator will light up, “FINISH” will be displayed, indicating that fluorescent indicator tube lighting check has completed.

### SWITCHING OF 9 kHz/10 kHz AM CHANNEL STEP

The AM channels of this unit can be switched between 9 kHz and 10 kHz.

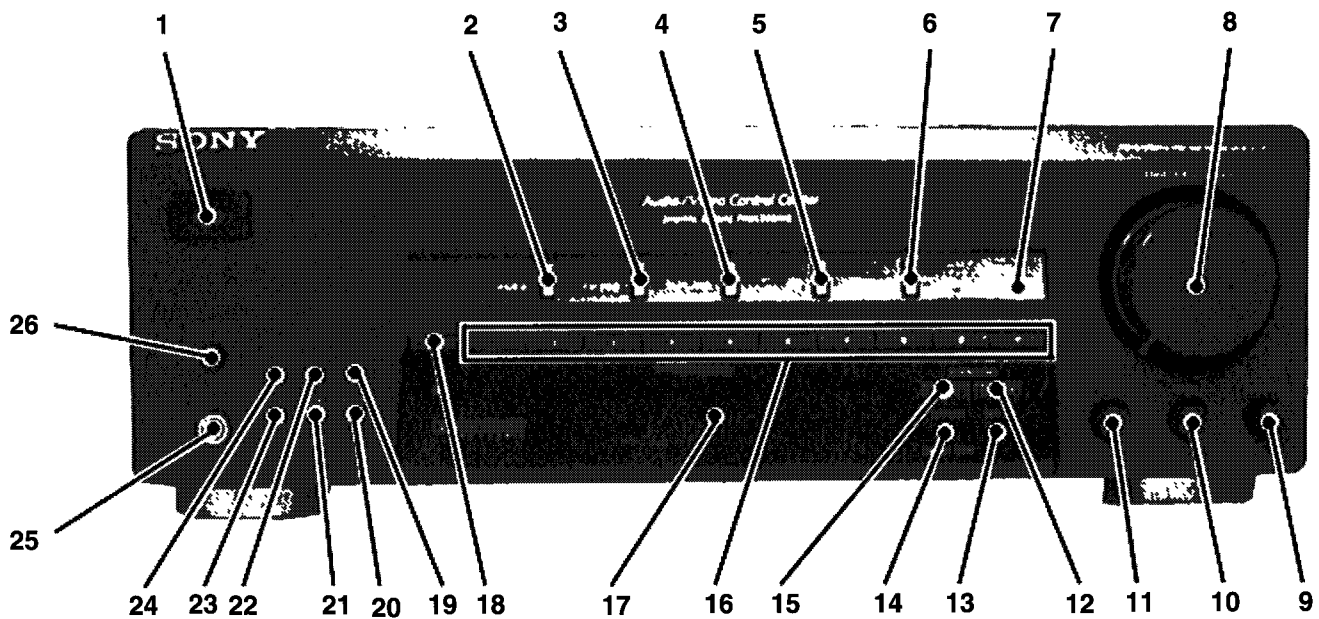
#### Procedure:

Set FUNCTION to AM and turn off the power.

While pressing the **TUNING +** button, press the **I/⏻** button to turn on the power.  
“9 k STEP” or “10 k STEP” will be displayed, and the channel step will be switched.

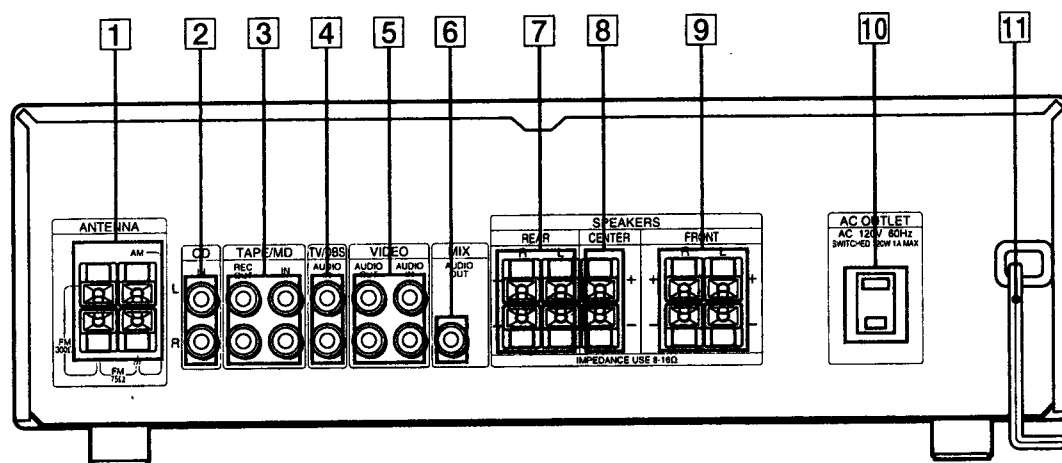
## SECTION 2 GENERAL

### Front Panel Descriptions



- 1 I/⏻ button
- 2 VIDEO button
- 3 TV/DBS button
- 4 TAPE/MD button
- 5 CD button
- 6 TUNER button
- 7 BASS BOOST indicator
- 8 MASTER VOLUME knob
- 9 BALANCE knob
- 10 TREBLE knob
- 11 BASS knob
- 12 SURROUND ON/OFF button
- 13 SET UP button
- 14 EFFECT/DELAY TIME button
- 15 SURROUND MODE button
- 16 Numeral (1 to 0) button
- 17 Display window
- 18 DIRECT button
- 19 SHIFT button
- 20 MEMORY button
- 21 AM button
- 22 TUNING + button
- 23 FM button
- 24 TUNING – button
- 25 PHONES jack
- 26 SPEAKERS  ON/ OFF button

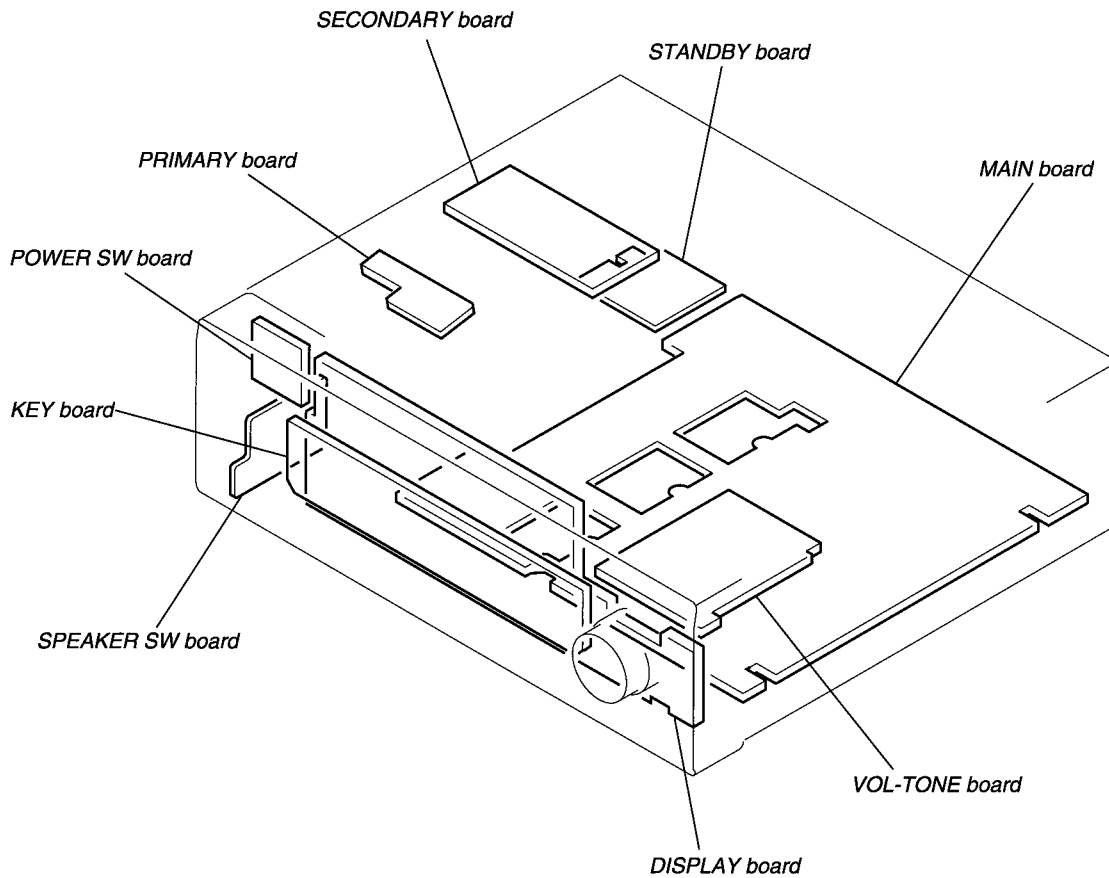
## Rear Panel Descriptions



- 1 ANTENNA
- 2 CD
- 3 TAPE/MD
- 4 TV/DBS
- 5 VIDEO
- 6 MIX AUDIO OUT
- 7 REAR
- 8 CENTER
- 9 FRONT
- 10 AC OUTLET
- 11 AC power cord

## SECTION 3 DIAGRAMS

### 3-1. CIRCUIT BOARDS LOCATION



**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**  
(In addition to this, the necessary note is printed in each block.)

#### For schematic diagrams.

##### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
-  : nonflammable resistor.
-  : panel designation.

**Note:** The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : FM

- Voltages are taken with a VOM (Input impedance  $10\text{ M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.  
 $\Rightarrow$  : FM

#### For printed wiring boards.

##### Note:

-  : parts extracted from the component side.
-  : Pattern of the conductor side.

##### Caution:

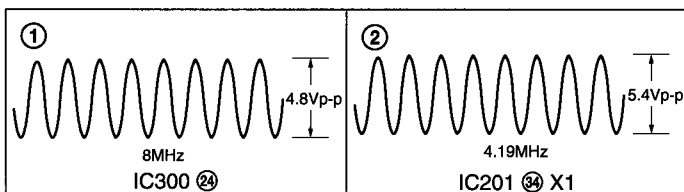
|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Pattern face side: | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side:   | Parts on the parts face side seen from the parts face are indicated.     |

#### • Indication of transistor



These are omitted

### WAVEFORMS

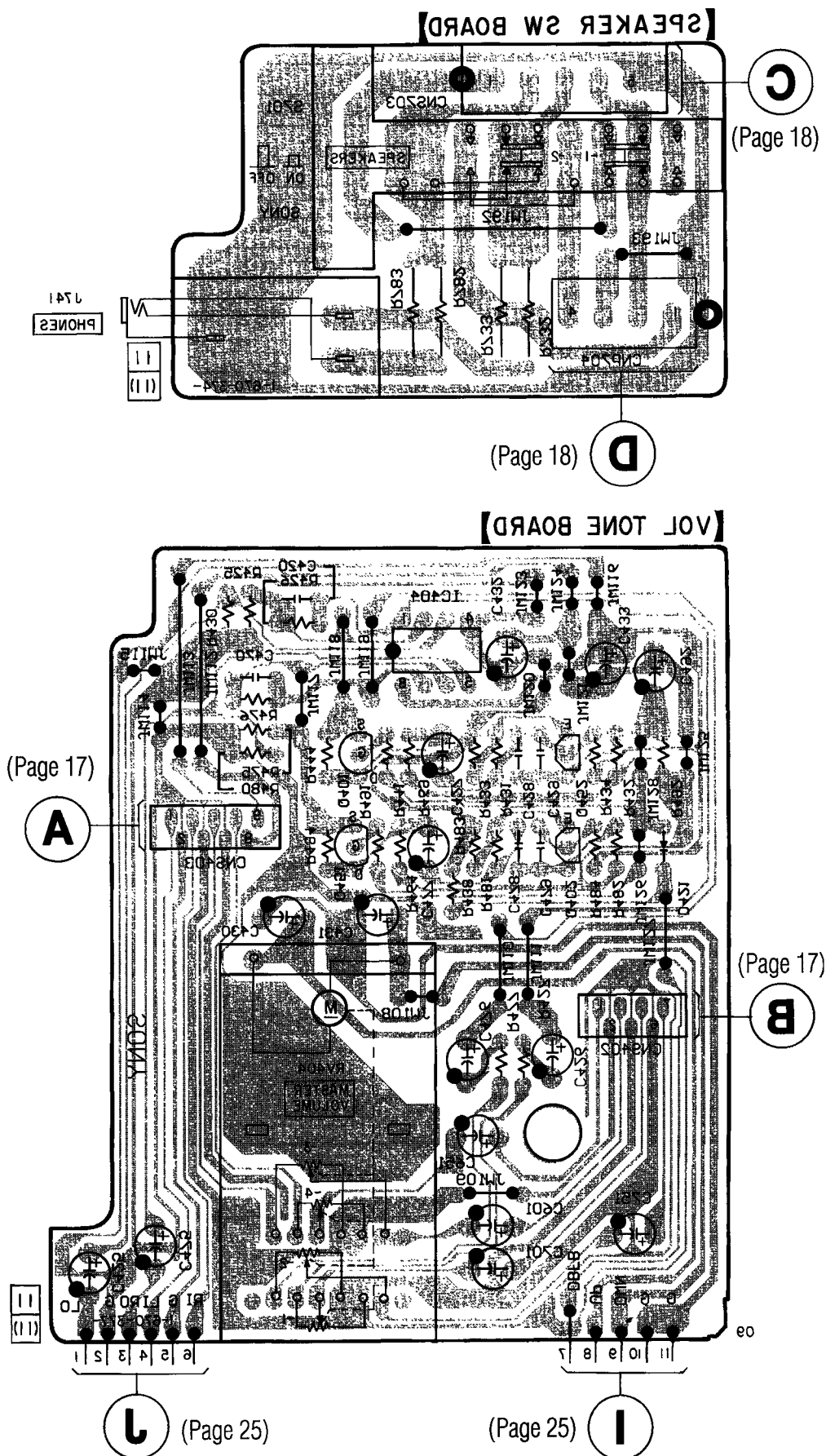


### 3-11. PRINTED WIRING BOARD – PANEL SECTION –

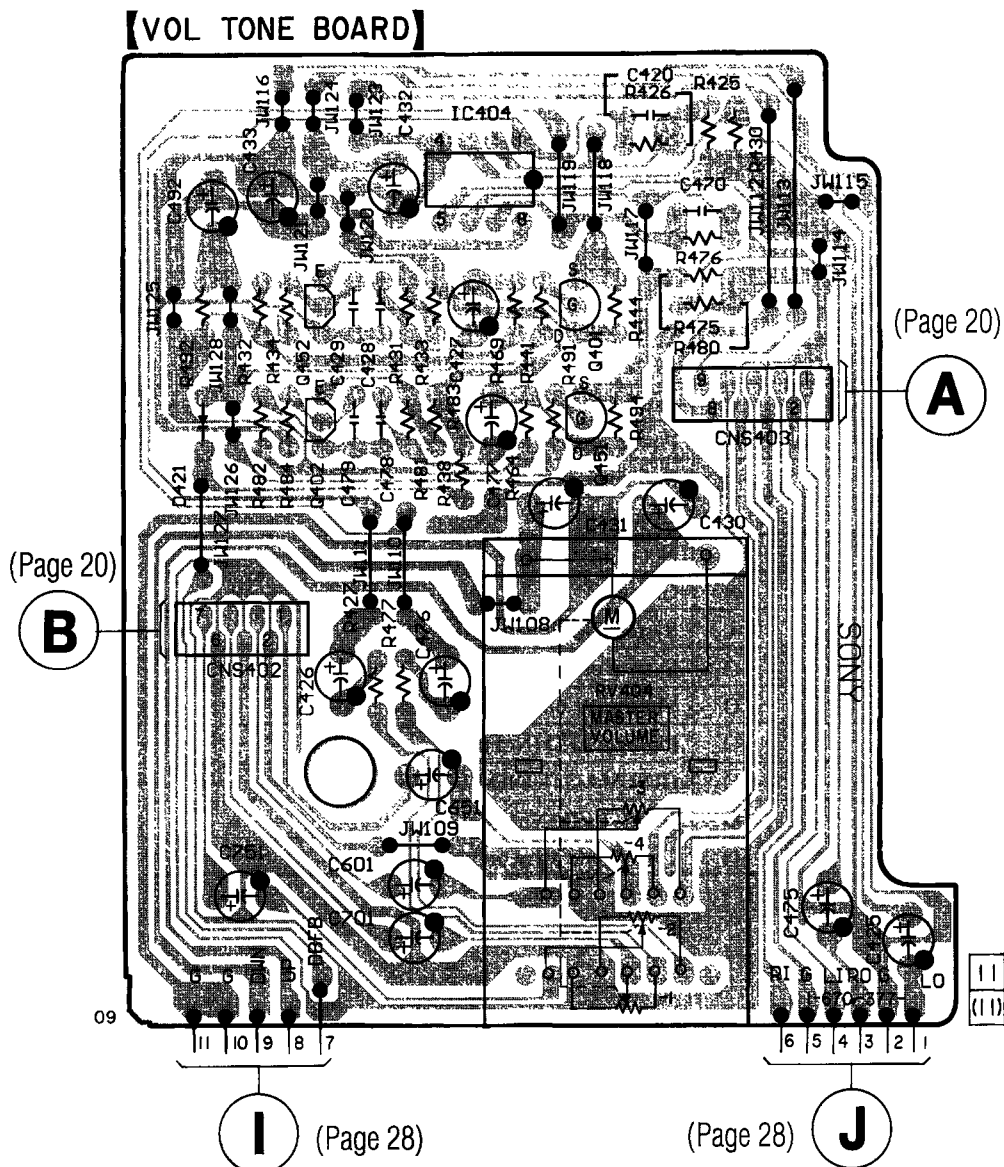
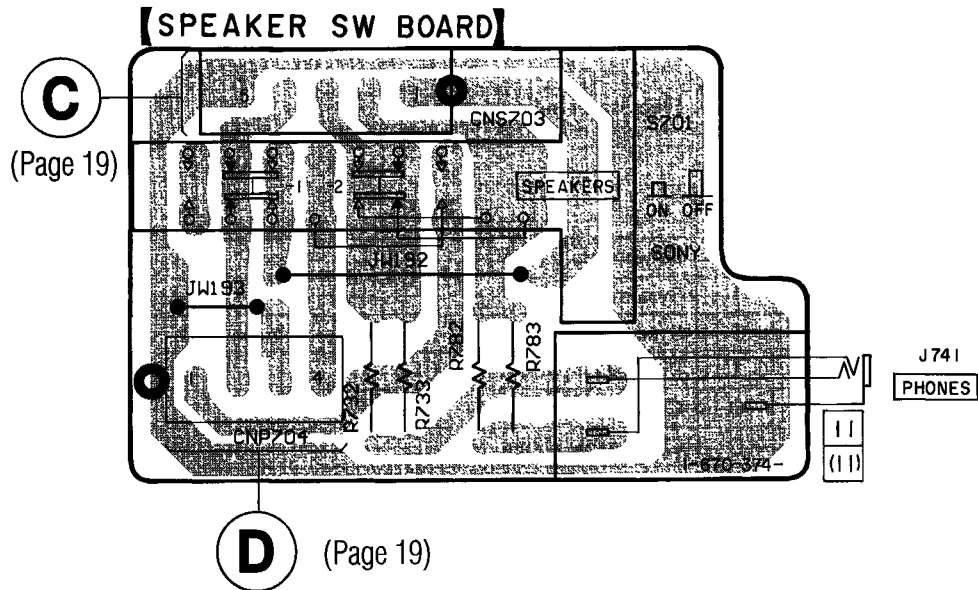
• See page 6 for Circuit Boards Location.

(Conductor Side)

Note: Conductor side equal an inversion of component side.



(Component Side)



### 3-12. IC PIN FUNCTIONS

#### • IC201 uPD78044FGF-064-3B9

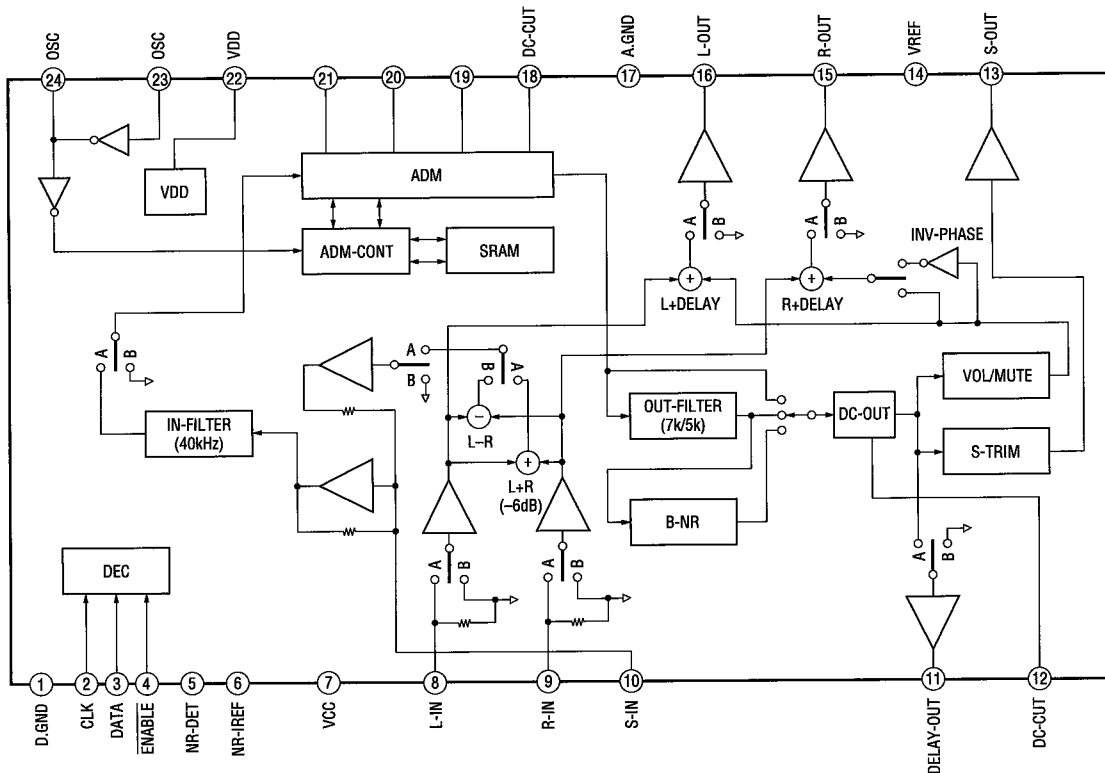
| Pin No. | Pin Name                    | I/O | Function                                     |
|---------|-----------------------------|-----|----------------------------------------------|
| 1       | DIG7                        | O   | Fluorescent indicator tube drive             |
| 2       | DIG6                        | O   |                                              |
| 3       | DIG5                        | O   |                                              |
| 4       | DIG4                        | O   |                                              |
| 5       | DIG3                        | O   |                                              |
| 6       | DIG2                        | O   |                                              |
| 7       | DIG1                        | O   |                                              |
| 8       | +5V                         | —   | Power supply (+5V)                           |
| 9       | $\overline{S. CLK}$         | I   | System clock                                 |
| 10      | $\overline{S. DATA}$        | I   | System data                                  |
| 11      | $\overline{PLL. DATA}$      | I   | PLL data input from TU001                    |
| 12      | S. CE (LC7288)              | O   | Chip enable output                           |
| 13      | $\overline{S. CE}$ (LV1010) | O   | Chip enable output                           |
| 14      | REAR-R                      | I   | Input for model select (Connected to ground) |
| 15      | BRIDGE                      | I   | Protector detect input                       |
| 16      | $\overline{PROTECT}$        | I   | Protector detect input                       |
| 17      | $\overline{RESET}$          | I   | System reset terminal                        |
| 18      | $\overline{AUTO-STOP}$      | I   | Auto stop detect input                       |
| 19      | $\overline{STEREO-IN}$      | I   | Stereo detect input                          |
| 20      | AVSS                        | —   | Ground (Not used)                            |
| 21      | SP-RY                       | O   | Speaker relay drive                          |
| 22      | SURR-RY                     | O   | Surround Relay                               |
| 23      | POWER-RY                    | O   | Power relay drive                            |
| 24      | AVSS                        | —   | Ground                                       |
| 25      | SIGNAL                      | I   | A/D signal input terminal                    |
| 26      | A/D3                        | I   | A/D3 key input terminal                      |
| 27      | A/D2                        | I   | A/D2 key input terminal                      |
| 28      | A/D1                        | I   | A/D1 key input terminal                      |
| 29      | AVDD                        | —   | Power supply (+5V)                           |
| 30      | AV. REF                     | —   | Reference voltage (+5V)                      |
| 31      | GND                         | —   | Ground                                       |
| 32      | NC                          | —   | Not used (Open)                              |
| 33      | VSS                         | —   | Ground                                       |
| 34      | X1                          | I   | System clock (4.19MHz)                       |
| 35      | X2                          | O   | System clock (4.19MHz)                       |
| 36      | IC. MUTE                    | O   | Mute drive output for $\mu$ PD2581V (IC701)  |
| 37      | $\overline{PROLOGIC}$       | O   | Plologic LED (Not used)                      |
| 38      | $\overline{SIMULATED}$      | O   | CINEMA STUDIO LED (Not used)                 |
| 39      | $\overline{HALL}$           | O   | HALL LED (Not used)                          |
| 40      | T. MUTE                     | O   | Tuner mute drive output                      |

| Pin No. | Pin Name      | I/O | Function                                |
|---------|---------------|-----|-----------------------------------------|
| 41      | VOLUME UP     | O   | Volume up                               |
| 42      | VOLUME DOWN   | O   | Volume down                             |
| 43      | STANDBY       | O   | Standby LED drive (Not used)            |
| 44      | SYS. POWER    | I   | System power ON/OFF                     |
| 45      | RDS. DATA. IN | I   | RDS data input (Not used)               |
| 46      | RDS. CLK. IN  | I   | RDS clock input (Not used)              |
| 47      | STOP          | I   | Stop signal input from NJM2103D (IC950) |
| 48      | VSS           | —   | Ground                                  |
| 49      | SIRCS         | I   | Sircs signal input                      |
| 50      | POWER SW      | I   | Power switch input terminal             |
| 51      | 5.1ch LED     | —   | 5.1ch LED drive                         |
| 52      | +5V           | —   | Power supply (+5V)                      |
| 53      | BASS BOOST    | I   | Bass boost LED drive                    |
| 54      | FUNC. MUTE    | O   | Line mute drive                         |
| 55      | SL MUTE       | O   | SL mute drive                           |
| 56      | VERSION       | I   | Input for model select                  |
| 57      | K14           | I   | Key in 4                                |
| 58      | K13           | I   | Key in 3                                |
| 59      | K12           | I   | Key in 2                                |
| 60      | K11           | I   | Key in 1                                |
| 61      | SR MUTE       | O   | SR mute drive                           |
| 62      | S15           | O   | Not used                                |
| 63      | S14           | O   | Fluorescent indicator tube drive        |
| 64      | S13           | O   |                                         |
| 65      | S12           | O   |                                         |
| 66      | S11           | O   |                                         |
| 67      | S10           | O   |                                         |
| 68      | S9            | O   |                                         |
| 69      | S8            | O   |                                         |
| 70      | S7            | O   |                                         |
| 71      | VLOAD         | —   | Connect to -24V                         |
| 72      | S6            | O   | Fluorescent indicator tube drive        |
| 73      | S5            | O   |                                         |
| 74      | S4            | O   |                                         |
| 75      | S3            | O   |                                         |
| 76      | S2            | O   |                                         |
| 77      | S1            | O   |                                         |
| 78      | DIG10         | O   | Fluorescent indicator tube drive        |
| 79      | DIG9          | O   |                                         |
| 80      | DIG8          | O   |                                         |

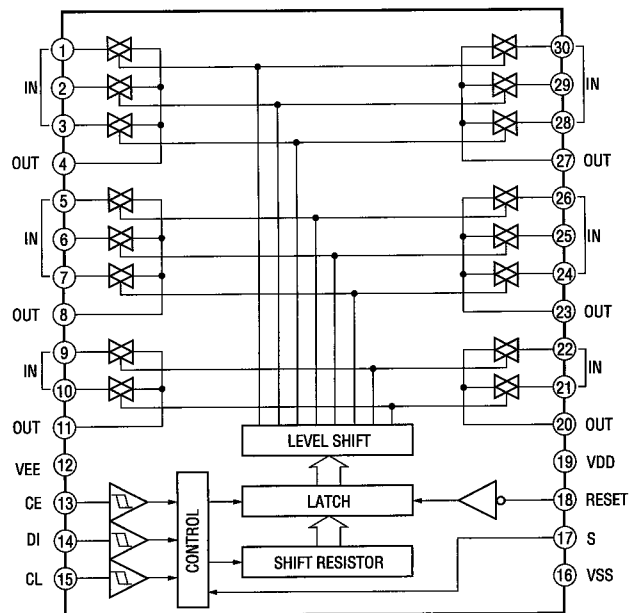
## 6-13. IC BLOCK DIAGRAMS

### • Main section

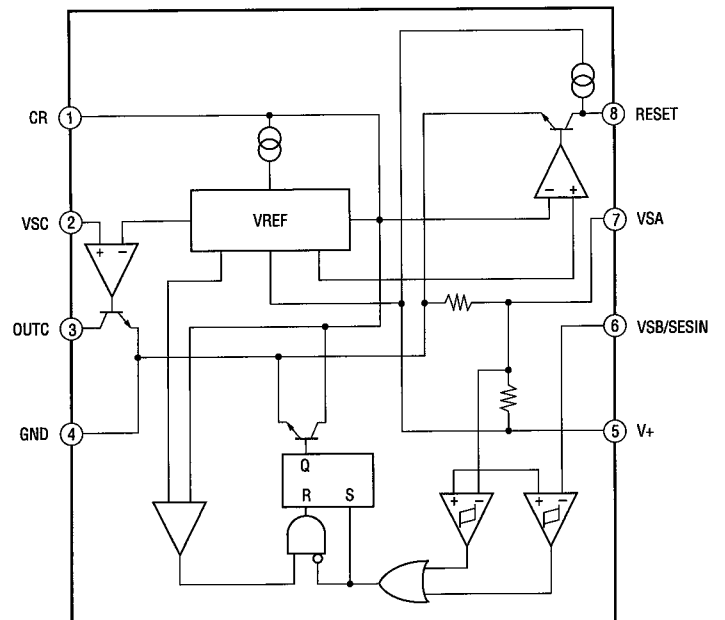
#### IC300 LV1016



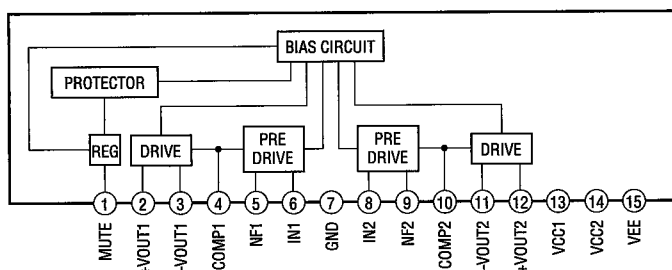
#### IC401 LC7822



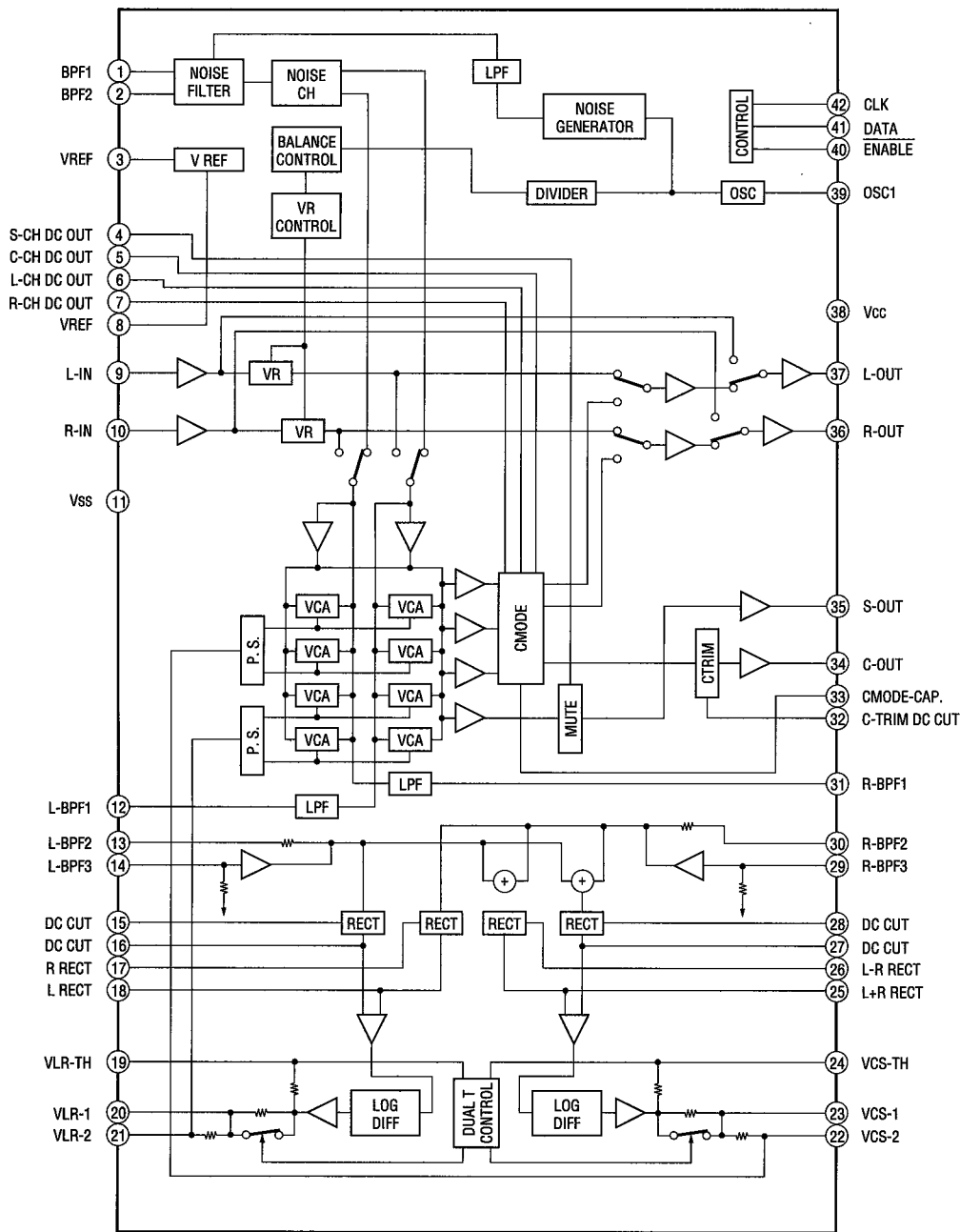
#### IC950 NJM2103D



#### IC701, 702 uPC2581

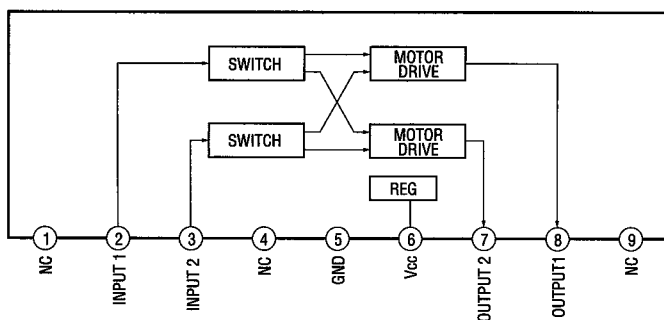


# IC301 LA2786



## • Display section

### IC202 BA6208



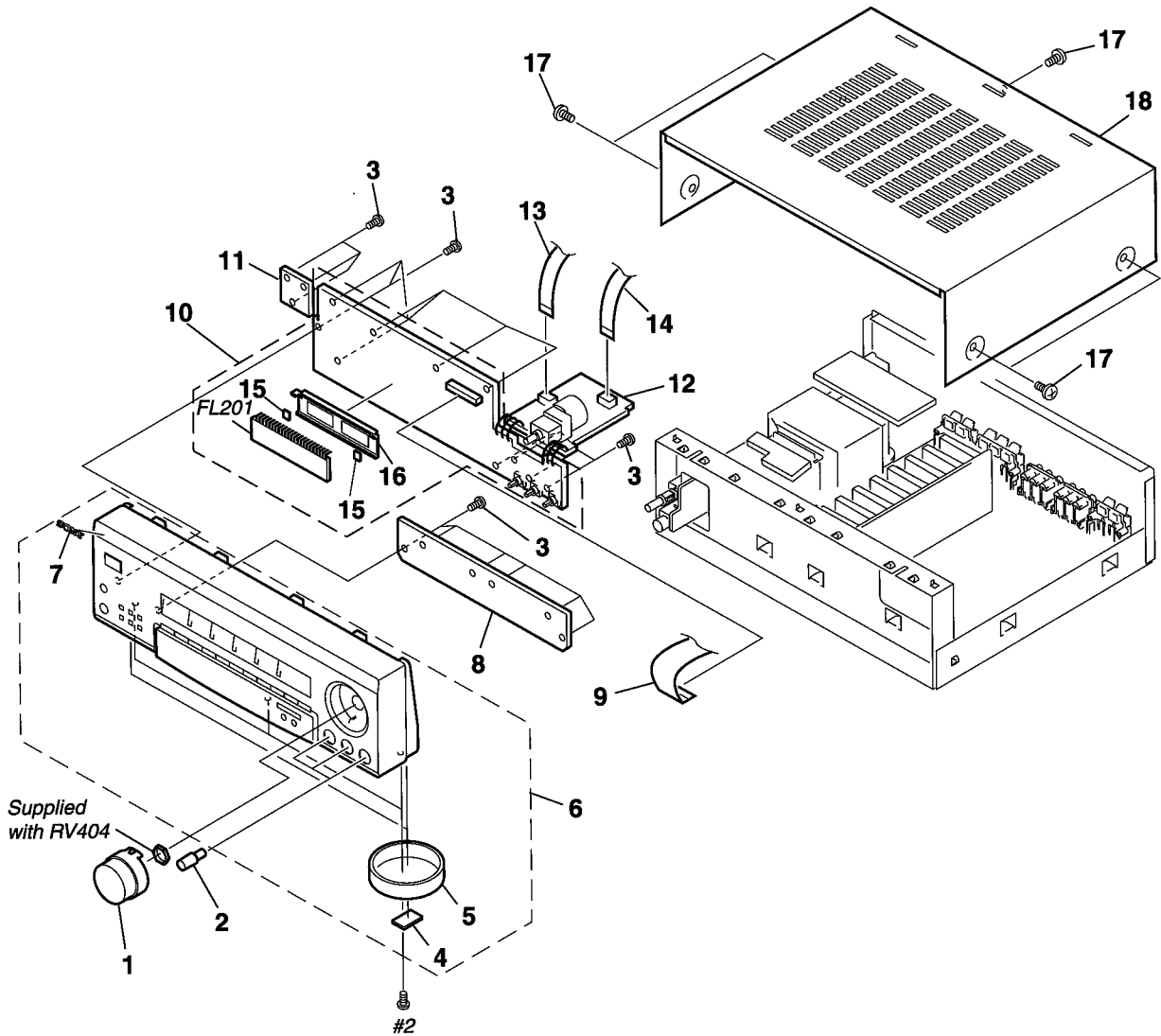
## SECTION 4 EXPLODED VIEWS

### NOTE:

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 and accessories and packing materials are given in the last of this parts list.

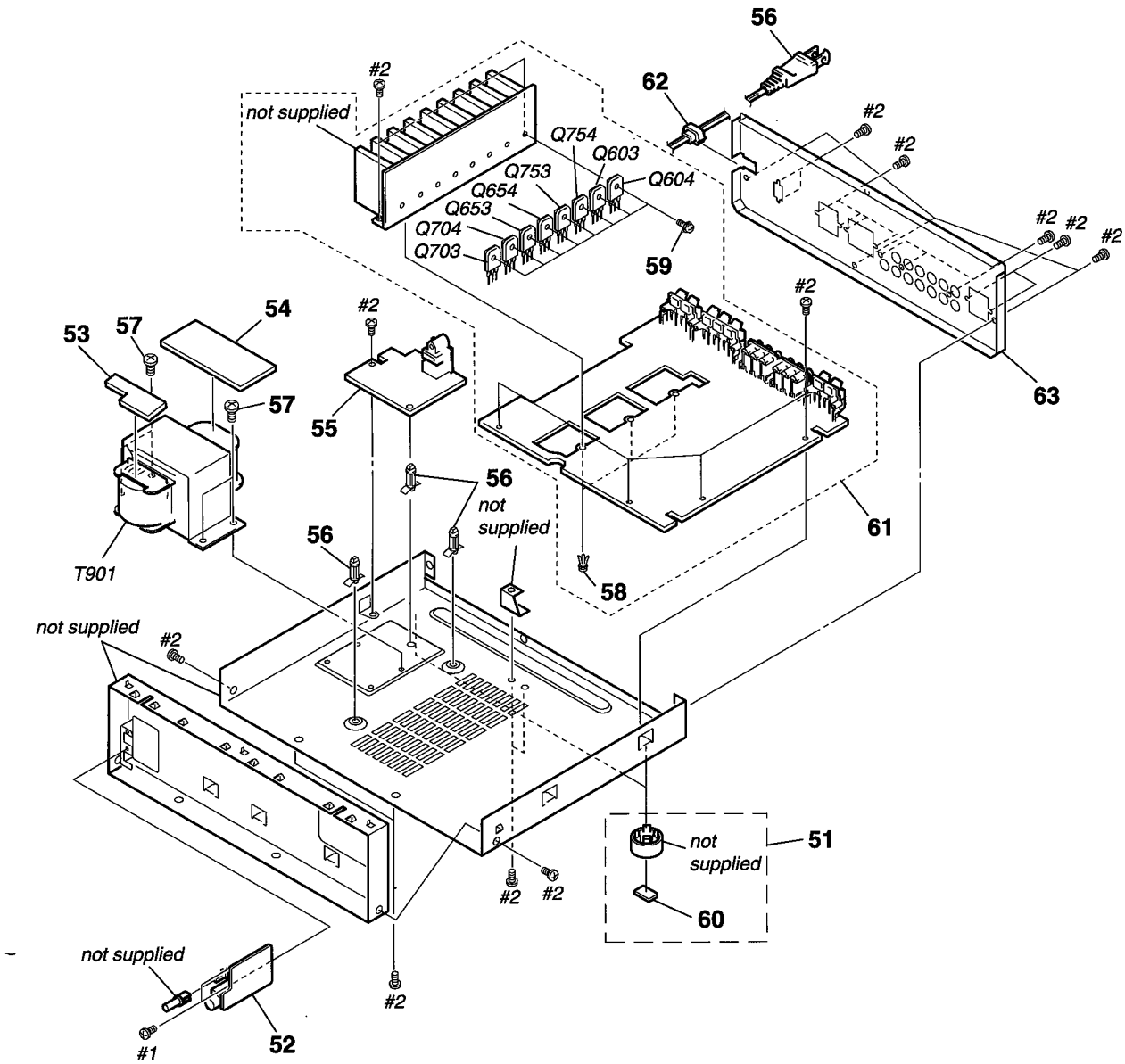
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

### 1. CASE SECTION



| Ref. No. | Part No.     | Description                | Remark | Ref. No. | Part No.     | Description                 | Remark |
|----------|--------------|----------------------------|--------|----------|--------------|-----------------------------|--------|
| 1        | A-4411-215-A | KNOB ASSY                  |        | * 11     | 1-670-378-11 | POWER SW BOARD              |        |
| 2        | 4-210-373-01 | KNOB (EQ)                  |        | * 12     | A-4414-896-A | VOL-TONE BOARD              |        |
| 3        | 4-951-620-01 | SCREW (2.6X8), +BVTP       |        | 13       | 1-782-074-11 | WIRE (FLAT TYPE) (7 CORE)   |        |
| 4        | 4-978-398-21 | CUSHION                    |        | 14       | 1-782-075-11 | WIRE (FLAT TYPE) (9 CORE)   |        |
| 5        | 4-977-593-01 | RING (DIA. 50), ORNAMENTAL |        | * 15     | 4-921-941-01 | CUSHION (FL)                |        |
| 6        | A-4411-214-A | PANEL ASSY, FRONT          |        | * 16     | 4-210-383-01 | HOLDER (FL TUBE)            |        |
| 7        | 4-996-698-41 | EMBLEM, SONY               |        | 17       | 3-704-366-31 | SCREW (CASE) (M3X6)         |        |
| 8        | A-4414-899-A | KEY BOARD                  |        | * 18     | 4-210-365-01 | CASE                        |        |
| 9        | 1-782-100-11 | WIRE (FLAT TYPE) (23 CORE) |        | FL201    | 1-517-662-11 | INDICATOR TUBE, FLUORESCENT |        |
| 10       | A-4414-898-A | DISPLAY BOARD, COMPLETE    |        |          |              |                             |        |

## 4-2. CHASSIS SECTION



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

| Ref. No. | Part No.     | Description          | Remark | Ref. No. | Part No.     | Description          | Remark |
|----------|--------------|----------------------|--------|----------|--------------|----------------------|--------|
| 51       | X-4946-543-1 | FOOT (SMALL) ASSY    |        | 62       | 3-703-244-00 | BUSHING (2104), CORD |        |
| * 52     | 1-670-374-11 | SPEAKER SW BOARD     |        | * 63     | 4-210-367-01 | PANEL, BACK          |        |
| * 53     | 1-670-376-11 | PRIMARY BOARD        |        | Q603     | 8-749-010-25 | IC MN2488-OPY-M      |        |
| * 54     | 1-670-375-11 | SECONDARY BOARD      |        | Q604     | 8-749-010-26 | IC MP1620-OPY-M      |        |
| * 55     | 1-670-373-11 | STANDBY BOARD        |        |          |              |                      |        |
| △ 56     | 1-690-609-21 | CORD, POWER          |        | Q653     | 8-749-010-25 | IC MN2488-OPY-M      |        |
| 57       | 4-900-386-01 | SCREW                |        | Q654     | 8-749-010-26 | IC MP1620-OPY-M      |        |
| 58       | 4-210-380-01 | RIVET, NYLON         |        | Q703     | 8-749-010-25 | IC MN2488-OPY-M      |        |
| 59       | 3-905-609-01 | SCREW (TRANSISTOR)   |        | Q704     | 8-749-010-26 | IC MP1620-OPY-M      |        |
| * 60     | 4-978-398-21 | CUSHION              |        | Q753     | 8-749-010-25 | IC MN2488-OPY-M      |        |
|          |              |                      |        |          |              |                      |        |
|          |              |                      |        | Q754     | 8-749-010-26 | IC MP1620-OPY-M      |        |
| * 61     | A-4414-900-A | MAIN BOARD, COMPLETE |        | △ T901   | 1-431-258-11 | TRANSFORMER, POWER   |        |

## DISPLAY

- SEMICONDUCTORS  
In each case,  $u: \mu$ , for example:  
 $uA...: \mu A...$ ,  $uPA...: \mu PA...$ ,  $uPB...: \mu PB...$ ,  
 $uPC...: \mu PC...$ ,  $uPD...: \mu PD...$
- CAPACITORS  
 $uF: \mu F$
- COILS  
 $uH: \mu H$

\*\*\*\*\*

# DISPLAY

# MAIN

| Ref. No. | Part No.     | Description                  | Remark |
|----------|--------------|------------------------------|--------|
|          |              | < COIL >                     |        |
| L401     | 1-410-509-11 | INDUCTOR 10uH                |        |
|          |              | < TRANSISTOR >               |        |
| Q201     | 8-729-900-63 | TRANSISTOR DTA124ES          |        |
| Q202     | 8-729-900-36 | TRANSISTOR DTC124ES          |        |
| Q231     | 8-729-900-36 | TRANSISTOR DTC124ES          |        |
|          |              | < RESISTOR >                 |        |
| R200     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R201     | 1-247-903-00 | CARBON 1M 5% 1/4W            |        |
| R202     | 1-249-429-11 | CARBON 10K 5% 1/4W           |        |
| R203     | 1-249-429-11 | CARBON 10K 5% 1/4W           |        |
| R204     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F        |        |
| R205     | 1-249-441-11 | CARBON 100K 5% 1/4W          |        |
| R207     | 1-249-429-11 | CARBON 10K 5% 1/4W           |        |
| R211     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R212     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R213     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R214     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R216     | 1-247-863-91 | CARBON 22K 5% 1/4W           |        |
| R221     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R222     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R223     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R224     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R225     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R226     | 1-249-441-11 | CARBON 100K 5% 1/4W          |        |
| R227     | 1-249-441-11 | CARBON 100K 5% 1/4W          |        |
| R228     | 1-249-412-11 | CARBON 390 5% 1/4W F         |        |
| R231     | 1-249-427-11 | CARBON 6.8K 5% 1/4W F        |        |
| R232     | 1-249-411-11 | CARBON 330 5% 1/4W           |        |
| R233     | 1-249-413-11 | CARBON 470 5% 1/4W F         |        |
| R234     | 1-249-415-11 | CARBON 680 5% 1/4W F         |        |
| R235     | 1-249-417-11 | CARBON 1K 5% 1/4W F          |        |
| R236     | 1-249-419-11 | CARBON 1.5K 5% 1/4W F        |        |
| R270     | 1-247-807-31 | CARBON 100 5% 1/4W           |        |
| R283     | 1-249-427-11 | CARBON 6.8K 5% 1/4W F        |        |
| R284     | 1-249-427-11 | CARBON 6.8K 5% 1/4W F        |        |
| R286     | 1-249-437-11 | CARBON 47K 5% 1/4W           |        |
| R420     | 1-249-415-11 | CARBON 680 5% 1/4W F         |        |
| R421     | 1-249-430-11 | CARBON 12K 5% 1/4W           |        |
| R422     | 1-249-422-11 | CARBON 2.7K 5% 1/4W F        |        |
| R423     | 1-247-903-00 | CARBON 1M 5% 1/4W            |        |
| R424     | 1-247-903-00 | CARBON 1M 5% 1/4W            |        |
| R470     | 1-249-415-11 | CARBON 680 5% 1/4W F         |        |
| R471     | 1-249-430-11 | CARBON 12K 5% 1/4W           |        |
| R472     | 1-249-422-11 | CARBON 2.7K 5% 1/4W F        |        |
| R473     | 1-247-903-00 | CARBON 1M 5% 1/4W            |        |
| R474     | 1-247-903-00 | CARBON 1M 5% 1/4W            |        |
|          |              | < VARIABLE RESISTOR >        |        |
| RV421    | 1-225-660-11 | RES, VAR 100K/100K (BASS)    |        |
| RV422    | 1-225-659-11 | RES, VAR 125K/125K (TREBLE)  |        |
| RV423    | 1-225-658-11 | RES, VAR 100K/100K (BALANCE) |        |
|          |              | < SWITCH >                   |        |
| S209     | 1-554-937-11 | SWITCH, KEY BOARD (TUNING -) |        |

| Ref. No. | Part No.     | Description                            | Remark |
|----------|--------------|----------------------------------------|--------|
| S210     | 1-554-937-11 | SWITCH, KEY BOARD (TUNING +)           |        |
| S214     | 1-554-937-11 | SWITCH, KEY BOARD (FM)                 |        |
| S215     | 1-554-937-11 | SWITCH, KEY BOARD (AM)                 |        |
| S216     | 1-554-937-11 | SWITCH, KEY BOARD (MEMORY)             |        |
| S217     | 1-554-937-11 | SWITCH, KEY BOARD (SURROUND ON/OFF)    |        |
| S218     | 1-554-937-11 | SWITCH, KEY BOARD (SET UP)             |        |
| S219     | 1-554-937-11 | SWITCH, KEY BOARD (EFFECT, DELAY TIME) |        |
| S229     | 1-554-937-11 | SWITCH, KEY BOARD (SHIFT)              |        |
| S238     | 1-554-937-11 | SWITCH, KEY BOARD (SURROUND MODE)      |        |
|          |              | < VIBRATOR >                           |        |
| X201     | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz)            |        |
| *****    |              |                                        |        |
| *        | A-4414-900-A | MAIN BOARD, COMPLETE                   |        |
|          |              | *****                                  |        |
|          | 3-905-609-01 | SCREW (TRANSISTOR)                     |        |
|          | 4-210-380-01 | RIVET, NYLON                           |        |
|          | 7-685-872-09 | SCREW +BVTT 3X8 (S)                    |        |
|          |              | < CAPACITOR >                          |        |
| C302     | 1-126-934-11 | ELECT 220uF 20% 16V                    |        |
| C303     | 1-130-494-11 | MYLAR 0.082uF 5% 50V                   |        |
| C304     | 1-137-367-11 | FILM 0.0033uF 5% 50V                   |        |
| C305     | 1-130-494-11 | MYLAR 0.082uF 5% 50V                   |        |
| C306     | 1-126-959-11 | ELECT 0.47uF 20% 50V                   |        |
| C307     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C308     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C309     | 1-162-291-31 | CERAMIC 560PF 10% 50V                  |        |
| C310     | 1-126-962-11 | ELECT 3.3uF 20% 50V                    |        |
| C311     | 1-126-961-11 | ELECT 2.2uF 20% 50V                    |        |
| C312     | 1-126-934-11 | ELECT 220uF 20% 16V                    |        |
| C313     | 1-126-934-11 | ELECT 220uF 20% 16V                    |        |
| C314     | 1-136-165-00 | FILM 0.1uF 5% 50V                      |        |
| C316     | 1-124-252-00 | ELECT 0.33uF 20% 50V                   |        |
| C317     | 1-126-933-11 | ELECT 100uF 20% 16V                    |        |
| C318     | 1-136-357-11 | FILM 680PF 5% 50V                      |        |
| C322     | 1-126-962-11 | ELECT 3.3uF 20% 50V                    |        |
| C323     | 1-136-173-00 | FILM 0.47uF 5% 50V                     |        |
| C324     | 1-126-967-11 | ELECT 47uF 20% 16V                     |        |
| C325     | 1-136-165-00 | FILM 0.1uF 5% 50V                      |        |
| C326     | 1-136-165-00 | FILM 0.1uF 5% 50V                      |        |
| C327     | 1-126-959-11 | ELECT 0.47uF 20% 50V                   |        |
| C328     | 1-126-963-11 | ELECT 4.7uF 20% 50V                    |        |
| C329     | 1-126-959-11 | ELECT 0.47uF 20% 50V                   |        |
| C330     | 1-126-963-11 | ELECT 4.7uF 20% 50V                    |        |
| C331     | 1-124-250-11 | ELECT 0.15uF 20% 50V                   |        |
| C332     | 1-126-962-11 | ELECT 3.3uF 20% 50V                    |        |
| C333     | 1-124-250-11 | ELECT 0.15uF 20% 50V                   |        |
| C334     | 1-137-372-11 | FILM 0.022uF 5% 50V                    |        |
| C335     | 1-136-161-00 | FILM 0.047uF 5% 50V                    |        |
| C336     | 1-126-934-11 | ELECT 220uF 20% 16V                    |        |
| C337     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C338     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C339     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C340     | 1-126-964-11 | ELECT 10uF 20% 50V                     |        |
| C341     | 1-126-934-11 | ELECT 220uF 20% 16V                    |        |

| Ref. No. | Part No.     | Description |         |     | Remark | Ref. No.      | Part No.     | Description                  |         |     | Remark |
|----------|--------------|-------------|---------|-----|--------|---------------|--------------|------------------------------|---------|-----|--------|
| C342     | 1-126-962-11 | ELECT       | 3.3uF   | 20% | 50V    | C770          | 1-162-286-21 | CERAMIC                      | 220PF   | 10% | 50V    |
| C343     | 1-126-962-11 | ELECT       | 3.3uF   | 20% | 50V    | C801          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C344     | 1-136-165-00 | FILM        | 0.1uF   | 5%  | 50V    | C802          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C345     | 1-136-165-00 | FILM        | 0.1uF   | 5%  | 50V    | C803          | 1-107-766-11 | ELECT(BLOCK)                 | 8200uF  | 20% | 71V    |
| C346     | 1-126-959-11 | ELECT       | 0.47uF  | 20% | 50V    | C804          | 1-107-766-11 | ELECT(BLOCK)                 | 8200uF  | 20% | 71V    |
| C347     | 1-126-963-11 | ELECT       | 4.7uF   | 20% | 50V    | C805          | 1-137-420-11 | FILM                         | 0.047uF | 10% | 100V   |
| C348     | 1-126-959-11 | ELECT       | 0.47uF  | 20% | 50V    | C806          | 1-137-420-11 | FILM                         | 0.047uF | 10% | 100V   |
| C349     | 1-126-963-11 | ELECT       | 4.7uF   | 20% | 50V    | C807          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C350     | 1-124-250-11 | ELECT       | 0.15uF  | 20% | 50V    | C808          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C351     | 1-126-962-11 | ELECT       | 3.3uF   | 20% | 50V    | C809          | 1-126-960-11 | ELECT                        | 1uF     | 20% | 50V    |
| C352     | 1-124-250-11 | ELECT       | 0.15uF  | 20% | 50V    | C810          | 1-126-960-11 | ELECT                        | 1uF     | 20% | 50V    |
| C353     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C811          | 1-126-942-61 | ELECT                        | 1000uF  | 20% | 25V    |
| C354     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C812          | 1-126-942-61 | ELECT                        | 1000uF  | 20% | 25V    |
| C355     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C813          | 1-101-001-00 | CERAMIC                      | 0.001uF |     | 50V    |
| C356     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C814          | 1-101-001-00 | CERAMIC                      | 0.001uF |     | 50V    |
| C357     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C820          | 1-161-494-00 | CERAMIC                      | 0.022uF |     | 25V    |
| C359     | 1-126-963-11 | ELECT       | 4.7uF   | 20% | 50V    | C821          | 1-161-494-00 | CERAMIC                      | 0.022uF |     | 25V    |
| C360     | 1-126-963-11 | ELECT       | 4.7uF   | 20% | 50V    | C822          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C363     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C823          | 1-104-664-11 | ELECT                        | 47uF    | 20% | 25V    |
| C365     | 1-126-966-11 | ELECT       | 33uF    | 20% | 16V    | C950          | 1-126-767-11 | ELECT                        | 1000uF  | 20% | 16V    |
| C366     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C951          | 1-164-097-11 | CERAMIC                      | 0.022uF |     | 50V    |
| C406     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C952          | 1-126-960-11 | ELECT                        | 1uF     | 20% | 50V    |
| C408     | 1-162-294-31 | CERAMIC     | 0.001uF | 10% | 50V    | C953          | 1-124-464-11 | ELECT                        | 0.22uF  | 20% | 50V    |
| C412     | 1-162-291-31 | CERAMIC     | 560PF   | 10% | 50V    | C954          | 1-126-096-11 | ELECT                        | 10uF    | 20% | 35V    |
| C413     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | C955          | 1-164-159-21 | CERAMIC                      | 0.1uF   |     | 50V    |
| C415     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | < CONNECTOR > |              |                              |         |     |        |
| C416     | 1-164-159-21 | CERAMIC     | 0.1uF   |     | 50V    | * CN706       | 1-764-321-11 | PIN, CONNECTOR (PC BOARD) 4P |         |     |        |
| C434     | 1-162-286-21 | CERAMIC     | 220PF   | 10% | 50V    | CNP702        | 1-764-474-11 | PIN, CONNECTOR (PC BOARD) 5P |         |     |        |
| C435     | 1-162-286-21 | CERAMIC     | 220PF   | 10% | 50V    | CNS204        | 1-568-742-11 | SOCKET, CONNECTOR 23P        |         |     |        |
| C602     | 1-162-282-31 | CERAMIC     | 100PF   | 10% | 50V    | CNS301        | 1-568-442-11 | SOCKET, CONNECTOR 9P         |         |     |        |
| C603     | 1-104-665-11 | ELECT       | 100uF   | 20% | 10V    | CNS701        | 1-568-439-11 | SOCKET, CONNECTOR 7P         |         |     |        |
| C605     | 1-102-233-00 | CERAMIC     | 33PF    | 10% | 500V   | * CNS802      | 1-564-778-11 | PLUG, CONNECTOR (2.5MM) 4P   |         |     |        |
| C610     | 1-126-967-11 | ELECT       | 47uF    | 20% | 16V    | < DIODE >     |              |                              |         |     |        |
| C611     | 1-137-372-11 | FILM        | 0.022uF | 5%  | 50V    | D610          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C620     | 1-162-286-21 | CERAMIC     | 220PF   | 10% | 50V    | D710          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C652     | 1-162-282-31 | CERAMIC     | 100PF   | 10% | 50V    | D721          | 8-719-815-85 | DIODE 1S1585                 |         |     |        |
| C653     | 1-104-665-11 | ELECT       | 100uF   | 20% | 10V    | D722          | 8-719-815-85 | DIODE 1S1585                 |         |     |        |
| C655     | 1-102-233-00 | CERAMIC     | 33PF    | 10% | 500V   | D723          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C660     | 1-126-967-11 | ELECT       | 47uF    | 20% | 16V    | D724          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C661     | 1-137-372-11 | FILM        | 0.022uF | 5%  | 50V    | D725          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C670     | 1-162-286-21 | CERAMIC     | 220PF   | 10% | 50V    | D801          | 8-719-936-37 | DIODE HZS24-1LTD             |         |     |        |
| C702     | 1-162-282-31 | CERAMIC     | 100PF   | 10% | 50V    | D802          | 8-719-302-38 | DIODE RBV-602-01             |         |     |        |
| C703     | 1-104-665-11 | ELECT       | 100uF   | 20% | 10V    | D804          | 8-719-923-38 | DIODE MTZJ-T-77-5.6B         |         |     |        |
| C705     | 1-102-233-00 | CERAMIC     | 33PF    | 10% | 500V   | D810          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C710     | 1-126-967-11 | ELECT       | 47uF    | 20% | 16V    | D811          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C711     | 1-137-372-11 | FILM        | 0.022uF | 5%  | 50V    | D812          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C720     | 1-162-286-21 | CERAMIC     | 220PF   | 10% | 50V    | D813          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C721     | 1-126-934-11 | ELECT       | 220uF   | 20% | 10V    | D814          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C722     | 1-126-964-11 | ELECT       | 10uF    | 20% | 50V    | D815          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C740     | 1-128-562-11 | ELECT       | 47uF    | 20% | 100V   | D817          | 8-719-001-30 | DIODE UZL-9H3                |         |     |        |
| C741     | 1-128-562-11 | ELECT       | 47uF    | 20% | 100V   | D818          | 8-719-911-19 | DIODE 1SS119-25              |         |     |        |
| C742     | 1-126-925-11 | ELECT       | 470uF   | 20% | 10V    | D820          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C743     | 1-126-925-11 | ELECT       | 470uF   | 20% | 10V    | D821          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C752     | 1-162-282-31 | CERAMIC     | 100PF   | 10% | 50V    | D822          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C753     | 1-104-665-11 | ELECT       | 100uF   | 20% | 10V    | D823          | 8-719-200-82 | DIODE 11ES2                  |         |     |        |
| C755     | 1-102-233-00 | CERAMIC     | 33PF    | 10% | 500V   |               |              |                              |         |     |        |
| C760     | 1-126-967-11 | ELECT       | 47uF    | 20% | 16V    |               |              |                              |         |     |        |
| C761     | 1-137-372-11 | FILM        | 0.022uF | 5%  | 50V    |               |              |                              |         |     |        |

# MAIN

| Ref. No. | Part No.     | Description                  | Remark | Ref. No. | Part No.     | Description              | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|--------------------------|--------|
| D901     | 8-719-911-19 | DIODE 1SS119-25              |        | Q752     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK   |        |
|          |              | < EARTH >                    |        | Q753     | 8-749-010-25 | IC MN2488-OPY-M          |        |
| * G201   | 1-537-738-21 | TERMINAL, EARTH              |        | Q754     | 8-749-010-26 | IC MP1620-OPY-M          |        |
| * G202   | 1-537-738-21 | TERMINAL, EARTH              |        | Q770     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA |        |
| * G203   | 1-537-738-21 | TERMINAL, EARTH              |        | Q801     | 8-729-140-97 | TRANSISTOR 2SB734-34     |        |
|          |              | < IC >                       |        | Q802     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE   |        |
| IC300    | 8-759-442-97 | IC LV1016                    |        | Q808     | 8-729-180-92 | TRANSISTOR 2SD809-K      |        |
| IC301    | 8-759-442-96 | IC LA2786                    |        | Q809     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE   |        |
| IC302    | 8-759-636-74 | IC M5218AP-22                |        | Q951     | 8-729-026-68 | TRANSISTOR 2SD2525(TP)   |        |
| IC401    | 8-759-805-14 | IC LC7822                    |        |          |              | < RESISTOR >             |        |
| IC701    | 8-759-326-52 | IC uPC2581V                  |        | △ R298   | 1-249-387-11 | CARBON 3.3 5% 1/4W F     |        |
| IC702    | 8-759-326-52 | IC uPC2581V                  |        | △ R299   | 1-249-387-11 | CARBON 3.3 5% 1/4W F     |        |
| IC801    | 8-759-231-58 | IC TA7812S                   |        | R300     | 1-247-903-00 | CARBON 1M 5% 1/4W        |        |
| IC802    | 8-759-604-45 | IC M5F79M12L                 |        | R301     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
| IC950    | 8-759-333-83 | IC NJM2103D                  |        | R302     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
|          |              | < JACK >                     |        | R303     | 1-249-439-11 | CARBON 68K 5% 1/4W       |        |
| J401     | 1-774-843-11 | JACK, PIN 1P (MIX AUDIO OUT) |        | R304     | 1-249-441-11 | CARBON 100K 5% 1/4W      |        |
| J402     | 1-774-005-21 | JACK, PIN 6P (TAPE/MD, CD)   |        | R306     | 1-249-436-11 | CARBON 39K 5% 1/4W       |        |
| J403     | 1-770-615-21 | JACK, PIN 6P (VIDEO, TV/DBS) |        | R307     | 1-247-862-11 | CARBON 20K 5% 1/4W       |        |
|          |              | < COIL >                     |        | R308     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
| L301     | 1-410-509-11 | INDUCTOR 10uH                |        | R309     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
| L302     | 1-410-509-11 | INDUCTOR 10uH                |        | R352     | 1-249-441-11 | CARBON 100K 5% 1/4W      |        |
| L601     | 1-420-872-00 | COIL, AIR-CORE               |        | R353     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
| L651     | 1-420-872-00 | COIL, AIR-CORE               |        | R354     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
| L701     | 1-420-872-00 | COIL, AIR-CORE               |        | R355     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
| L751     | 1-420-872-00 | COIL, AIR-CORE               |        | R356     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
|          |              | < TRANSISTOR >               |        | R357     | 1-249-441-11 | CARBON 100K 5% 1/4W      |        |
| Q303     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R358     | 1-249-441-11 | CARBON 100K 5% 1/4W      |        |
| Q304     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R359     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
| Q307     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R360     | 1-247-843-11 | CARBON 3.3K 5% 1/4W      |        |
| Q308     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R361     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| Q601     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE       |        | R362     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| Q602     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R363     | 1-249-411-11 | CARBON 330 5% 1/4W       |        |
| Q603     | 8-749-010-25 | IC MN2488-OPY-M              |        | R402     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
| Q604     | 8-749-010-26 | IC MP1620-OPY-M              |        | R403     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q610     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE       |        | R404     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q620     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA     |        | R405     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q651     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE       |        | R406     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q652     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R407     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q653     | 8-749-010-25 | IC MN2488-OPY-M              |        | R408     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| Q654     | 8-749-010-26 | IC MP1620-OPY-M              |        | R409     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q670     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA     |        | R414     | 1-249-425-11 | CARBON 4.7K 5% 1/4W F    |        |
| Q701     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE       |        | R415     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
| Q702     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK       |        | R420     | 1-249-441-11 | CARBON 100K 5% 1/4W      |        |
| Q703     | 8-749-010-25 | IC MN2488-OPY-M              |        | R435     | 1-249-418-11 | CARBON 1.2K 5% 1/4W F    |        |
| Q704     | 8-749-010-26 | IC MP1620-OPY-M              |        | R442     | 1-249-418-11 | CARBON 1.2K 5% 1/4W F    |        |
| Q710     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE       |        | R443     | 1-249-418-11 | CARBON 1.2K 5% 1/4W F    |        |
| Q720     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA     |        | R447     | 1-249-416-11 | CARBON 820 5% 1/4W F     |        |
| Q721     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA     |        | R448     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| Q722     | 8-729-140-84 | TRANSISTOR 2SC1841-PAFAEA    |        | R449     | 1-247-863-91 | CARBON 22K 5% 1/4W       |        |
| Q723     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE       |        | R452     | 1-249-421-11 | CARBON 2.2K 5% 1/4W F    |        |
| Q751     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE       |        | R453     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
|          |              |                              |        | R454     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
|          |              |                              |        | R455     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
|          |              |                              |        | R456     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
|          |              |                              |        | R457     | 1-249-417-11 | CARBON 1K 5% 1/4W F      |        |
|          |              |                              |        | R458     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |

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

| Ref. No. | Part No.     | Description            |      |    | Remark | Ref. No. | Part No.     | Description                           |      |    | Remark |
|----------|--------------|------------------------|------|----|--------|----------|--------------|---------------------------------------|------|----|--------|
| R459     | 1-249-417-11 | CARBON                 | 1K   | 5% | 1/4W F | R723     | 1-249-437-11 | CARBON                                | 47K  | 5% | 1/4W   |
| R465     | 1-249-417-11 | CARBON                 | 1K   | 5% | 1/4W F | R724     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| R470     | 1-249-441-11 | CARBON                 | 100K | 5% | 1/4W   | R725     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
|          |              |                        |      |    |        | R726     | 1-249-417-11 | CARBON                                | 1K   | 5% | 1/4W F |
| R601     | 1-249-417-11 | CARBON                 | 1K   | 5% | 1/4W F | R727     | 1-249-427-11 | CARBON                                | 6.8K | 5% | 1/4W F |
| R602     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   |          |              |                                       |      |    |        |
| R603     | 1-249-413-11 | CARBON                 | 470  | 5% | 1/4W F | R730     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
| R604     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   | R731     | 1-247-887-00 | CARBON                                | 220K | 5% | 1/4W   |
| R605     | 1-249-441-11 | CARBON                 | 100K | 5% | 1/4W   | R734     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
|          |              |                        |      |    |        | △ R740   | 1-249-393-11 | CARBON                                | 10   | 5% | 1/4W F |
| R610     | 1-249-421-11 | CARBON                 | 2.2K | 5% | 1/4W F | △ R741   | 1-249-393-11 | CARBON                                | 10   | 5% | 1/4W F |
| R611     | 1-249-437-11 | CARBON                 | 47K  | 5% | 1/4W   |          |              |                                       |      |    |        |
| R613     | 1-249-414-11 | CARBON                 | 560  | 5% | 1/4W F | R742     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| △ R614   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F | R743     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| △ R615   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F | R751     | 1-249-417-11 | CARBON                                | 1K   | 5% | 1/4W F |
|          |              |                        |      |    |        | R752     | 1-249-439-11 | CARBON                                | 68K  | 5% | 1/4W   |
| △ R616   | 1-233-352-21 | ENCAPSULATED COMPONENT |      |    |        | R753     | 1-249-413-11 | CARBON                                | 470  | 5% | 1/4W F |
| △ R617   | 1-249-393-11 | CARBON                 | 10   | 5% | 1/4W F |          |              |                                       |      |    |        |
| R618     | 1-249-389-11 | CARBON                 | 4.7  | 5% | 1/4W F | R754     | 1-249-439-11 | CARBON                                | 68K  | 5% | 1/4W   |
| △ R619   | 1-249-405-11 | CARBON                 | 100  | 5% | 1/4W F | R755     | 1-249-441-11 | CARBON                                | 100K | 5% | 1/4W   |
| R620     | 1-249-419-11 | CARBON                 | 1.5K | 5% | 1/4W F | R760     | 1-249-421-11 | CARBON                                | 2.2K | 5% | 1/4W F |
|          |              |                        |      |    |        | R761     | 1-249-437-11 | CARBON                                | 47K  | 5% | 1/4W   |
| R621     | 1-249-426-11 | CARBON                 | 5.6K | 5% | 1/4W   | R763     | 1-249-414-11 | CARBON                                | 560  | 5% | 1/4W F |
| △ R622   | 1-249-403-11 | CARBON                 | 68   | 5% | 1/4W F |          |              |                                       |      |    |        |
| R623     | 1-249-437-11 | CARBON                 | 47K  | 5% | 1/4W   | △ R764   | 1-249-408-11 | CARBON                                | 180  | 5% | 1/4W F |
| R630     | 1-249-426-11 | CARBON                 | 5.6K | 5% | 1/4W   | △ R765   | 1-249-408-11 | CARBON                                | 180  | 5% | 1/4W F |
| R631     | 1-247-887-00 | CARBON                 | 220K | 5% | 1/4W   | △ R766   | 1-233-352-21 | ENCAPSULATED COMPONENT                |      |    |        |
|          |              |                        |      |    |        | △ R767   | 1-249-393-11 | CARBON                                | 10   | 5% | 1/4W F |
| R632     | 1-249-426-11 | CARBON                 | 5.6K | 5% | 1/4W   | R768     | 1-249-389-11 | CARBON                                | 4.7  | 5% | 1/4W F |
| R651     | 1-249-417-11 | CARBON                 | 1K   | 5% | 1/4W F |          |              |                                       |      |    |        |
| R652     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   | R770     | 1-249-419-11 | CARBON                                | 1.5K | 5% | 1/4W F |
| R653     | 1-249-413-11 | CARBON                 | 470  | 5% | 1/4W F | R771     | 1-249-426-11 | CARBON                                | 5.6K | 5% | 1/4W   |
| R654     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   | R772     | 1-249-431-11 | CARBON                                | 15K  | 5% | 1/4W   |
|          |              |                        |      |    |        | R773     | 1-249-437-11 | CARBON                                | 47K  | 5% | 1/4W   |
| R655     | 1-249-441-11 | CARBON                 | 100K | 5% | 1/4W   | R781     | 1-247-887-00 | CARBON                                | 220K | 5% | 1/4W   |
| R660     | 1-249-421-11 | CARBON                 | 2.2K | 5% | 1/4W F |          |              |                                       |      |    |        |
| R661     | 1-249-437-11 | CARBON                 | 47K  | 5% | 1/4W   | △ R803   | 1-247-739-11 | CARBON                                | 100  | 5% | 1/2W F |
| R663     | 1-249-414-11 | CARBON                 | 560  | 5% | 1/4W F | R804     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| △ R664   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F | R821     | 1-249-437-11 | CARBON                                | 47K  | 5% | 1/4W   |
|          |              |                        |      |    |        | R822     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| △ R665   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F | R823     | 1-249-437-11 | CARBON                                | 47K  | 5% | 1/4W   |
| △ R666   | 1-233-352-21 | ENCAPSULATED COMPONENT |      |    |        |          |              |                                       |      |    |        |
| △ R667   | 1-249-393-11 | CARBON                 | 10   | 5% | 1/4W F | R824     | 1-249-425-11 | CARBON                                | 4.7K | 5% | 1/4W F |
| R668     | 1-249-389-11 | CARBON                 | 4.7  | 5% | 1/4W F | R825     | 1-249-407-11 | CARBON                                | 150  | 5% | 1/4W F |
| R670     | 1-249-419-11 | CARBON                 | 1.5K | 5% | 1/4W F | △ R830   | 1-249-405-11 | CARBON                                | 100  | 5% | 1/4W F |
|          |              |                        |      |    |        | △ R831   | 1-249-403-11 | CARBON                                | 68   | 5% | 1/4W F |
| R671     | 1-249-426-11 | CARBON                 | 5.6K | 5% | 1/4W   | R950     | 1-249-421-11 | CARBON                                | 2.2K | 5% | 1/4W F |
| R672     | 1-249-431-11 | CARBON                 | 15K  | 5% | 1/4W   |          |              |                                       |      |    |        |
| R673     | 1-249-437-11 | CARBON                 | 47K  | 5% | 1/4W   | R951     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
| R701     | 1-249-417-11 | CARBON                 | 1K   | 5% | 1/4W F | R952     | 1-247-843-11 | CARBON                                | 3.3K | 5% | 1/4W   |
| R702     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   | R953     | 1-247-863-91 | CARBON                                | 22K  | 5% | 1/4W   |
|          |              |                        |      |    |        | R954     | 1-249-439-11 | CARBON                                | 68K  | 5% | 1/4W   |
| R703     | 1-249-413-11 | CARBON                 | 470  | 5% | 1/4W F | R955     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
| R704     | 1-249-439-11 | CARBON                 | 68K  | 5% | 1/4W   |          |              |                                       |      |    |        |
| R705     | 1-249-441-11 | CARBON                 | 100K | 5% | 1/4W   | R956     | 1-247-843-11 | CARBON                                | 3.3K | 5% | 1/4W   |
| R710     | 1-249-421-11 | CARBON                 | 2.2K | 5% | 1/4W F | R957     | 1-249-417-11 | CARBON                                | 1K   | 5% | 1/4W F |
| R711     | 1-249-437-11 | CARBON                 | 47K  | 5% | 1/4W   | R960     | 1-249-429-11 | CARBON                                | 10K  | 5% | 1/4W   |
|          |              |                        |      |    |        | R961     | 1-249-401-11 | CARBON                                | 47   | 5% | 1/4W F |
| R713     | 1-249-414-11 | CARBON                 | 560  | 5% | 1/4W F |          |              |                                       |      |    |        |
| △ R714   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F |          |              | < RELAY >                             |      |    |        |
| △ R715   | 1-249-408-11 | CARBON                 | 180  | 5% | 1/4W F |          |              |                                       |      |    |        |
| △ R716   | 1-233-352-21 | ENCAPSULATED COMPONENT |      |    |        | RY601    | 1-515-921-11 | RELAY (12V)                           |      |    |        |
| △ R717   | 1-249-393-11 | CARBON                 | 10   | 5% | 1/4W F | RY701    | 1-515-921-11 | RELAY (12V)                           |      |    |        |
|          |              |                        |      |    |        | RY801    | 1-755-013-11 | RELAY                                 |      |    |        |
| R718     | 1-249-389-11 | CARBON                 | 4.7  | 5% | 1/4W F |          |              |                                       |      |    |        |
| △ R719   | 1-249-405-11 | CARBON                 | 100  | 5% | 1/4W F |          |              | * < TERMINAL >                        |      |    |        |
| R720     | 1-249-419-11 | CARBON                 | 1.5K | 5% | 1/4W F |          |              |                                       |      |    |        |
| R721     | 1-249-426-11 | CARBON                 | 5.6K | 5% | 1/4W   | TM001    | 1-537-240-51 | TERMINAL BOARD (CHECKER PIN)(ANTENNA) |      |    |        |
| △ R722   | 1-249-403-11 | CARBON                 | 68   | 5% | 1/4W F | TM601    | 1-537-923-11 | TERMINAL BOARD (SPEAKER) (6P)         |      |    |        |
|          |              |                        |      |    |        |          |              | (SPEAKER REAR/CENTER)                 |      |    |        |

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

|                   |                 |                 |                  |
|-------------------|-----------------|-----------------|------------------|
| <b>MAIN</b>       | <b>POWER SW</b> | <b>PRIMARY</b>  | <b>SECONDARY</b> |
| <b>SPEAKER SW</b> | <b>STANDBY</b>  | <b>VOL-TONE</b> |                  |

| Ref. No. | Part No.     | Description                                     | Remark |
|----------|--------------|-------------------------------------------------|--------|
| TM701    | 1-537-240-11 | TERMINAL BOARD (CHECKER PIN)<br>(SPEAKER FRONT) |        |
|          |              | < TUNER >                                       |        |
| TU001    | 1-233-593-11 | ENCAPSULATED COMPONENT                          |        |
|          |              | < VIBRATOR >                                    |        |
| X301     | 1-579-952-21 | VIBRATOR, CERAMIC (8MHz)                        |        |
| *****    |              |                                                 |        |
| *        | 1-670-378-11 | POWER SW BOARD<br>*****                         |        |
|          |              | < SWITCH >                                      |        |
| S200     | 1-554-937-11 | SWITCH, KEY BOARD (I/⏻)                         |        |
| *****    |              |                                                 |        |
| *        | 1-670-376-11 | PRIMARY BOARD<br>*****                          |        |
|          | 1-533-233-21 | HOLDER, FUSE                                    |        |
|          |              | < FUSE >                                        |        |
| △F901    | 1-576-109-11 | FUSE (5A 125V)                                  |        |
|          |              | < TRANSFORMER >                                 |        |
| △T901    | 1-431-285-31 | TRANSFORMER POWER                               |        |
| *****    |              |                                                 |        |
| *        | 1-670-375-11 | SECONDARY BOARD<br>*****                        |        |
|          |              | < CONNECTOR >                                   |        |
| CNP801   | 1-764-480-11 | PIN, CONNECTOR (PC BOARD) 11P                   |        |
|          |              | < RESISTOR >                                    |        |
| △R810    | 1-249-381-11 | CARBON 1 5% 1/4W F                              |        |
| △R811    | 1-249-381-11 | CARBON 1 5% 1/4W F                              |        |
| *****    |              |                                                 |        |
| *        | 1-670-374-11 | SPEAKER SW BOARD<br>*****                       |        |
|          |              | < JACK >                                        |        |
| J741     | 1-750-733-11 | JACK (LARGE TYPE)(PHONES)                       |        |
|          |              | < RESISTOR >                                    |        |
| R732     | 1-247-753-11 | CARBON 1.2K 5% 1/2W                             |        |
| R733     | 1-247-753-11 | CARBON 1.2K 5% 1/2W                             |        |
| R782     | 1-247-753-11 | CARBON 1.2K 5% 1/2W                             |        |
| R783     | 1-247-753-11 | CARBON 1.2K 5% 1/2W                             |        |
|          |              | < SWITCH >                                      |        |
| S701     | 1-771-436-11 | SWITCH, PUSH (SPEAKERS)                         |        |
| *****    |              |                                                 |        |

| Ref. No. | Part No.     | Description                   | Remark |
|----------|--------------|-------------------------------|--------|
| *        | 1-670-373-11 | STANDBY BOARD<br>*****        |        |
|          |              | < CONNECTOR >                 |        |
| △CJ902   | 1-540-057-11 | OUTLET, AC (POLAR)(AC OUTLET) |        |
| CNP901   | 1-564-321-00 | PIN, CONNECTOR 2P             |        |
|          |              | < DIODE >                     |        |
| D816     | 8-719-911-19 | DIODE 1SS119-25               |        |
|          |              | < EARTH >                     |        |
| * G900   | 1-537-738-21 | TERMINAL, EARTH               |        |
|          |              | < RESISTOR >                  |        |
| △R901    | 1-202-725-00 | SOLID 3.3M 10% 1/2W           |        |
|          |              | < RELAY >                     |        |
| △RY901   | 1-515-720-11 | RELAY                         |        |
|          |              | < TRANSFORMER >               |        |
| △T902    | 1-450-361-11 | TRANSFORMER, POWER            |        |
| *****    |              |                               |        |
| *        | A-4414-896-A | VOL-TONE BOARD<br>*****       |        |
|          |              | < CAPACITOR >                 |        |
| C420     | 1-162-207-31 | CERAMIC 22PF 5% 50V           |        |
| C425     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C426     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C427     | 1-124-252-00 | ELECT 0.33uF 20% 50V          |        |
| C428     | 1-130-489-00 | MYLAR 0.033uF 5% 50V          |        |
| C429     | 1-102-973-00 | CERAMIC 100PF 5% 50V          |        |
| C430     | 1-126-301-11 | ELECT 1uF 20% 50V             |        |
| C431     | 1-126-301-11 | ELECT 1uF 20% 50V             |        |
| C432     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C433     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C470     | 1-162-207-31 | CERAMIC 22PF 5% 50V           |        |
| C475     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C476     | 1-126-795-11 | ELECT 10uF 20% 25V            |        |
| C477     | 1-124-252-00 | ELECT 0.33uF 20% 50V          |        |
| C478     | 1-130-489-00 | MYLAR 0.033uF 5% 50V          |        |
| C479     | 1-102-973-00 | CERAMIC 100PF 5% 50V          |        |
| C492     | 1-124-464-11 | ELECT 0.22uF 20% 50V          |        |
| C601     | 1-126-163-11 | ELECT 4.7uF 20% 50V           |        |
| C651     | 1-126-163-11 | ELECT 4.7uF 20% 50V           |        |
| C701     | 1-126-163-11 | ELECT 4.7uF 20% 50V           |        |
| C751     | 1-126-163-11 | ELECT 4.7uF 20% 50V           |        |
|          |              | < CONNECTOR >                 |        |
| CNS402   | 1-568-439-11 | SOCKET, CONNECTOR 7P          |        |
| CNS403   | 1-568-442-11 | SOCKET, CONNECTOR 9P          |        |
|          |              | < DIODE >                     |        |
| D421     | 8-719-911-19 | DIODE 1SS119-25               |        |

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

| Ref. No.              | Part No.     | Description                             | Remark |
|-----------------------|--------------|-----------------------------------------|--------|
| < IC >                |              |                                         |        |
| IC404                 | 8-759-636-74 | IC M5218AP-22                           |        |
| < TRANSISTOR >        |              |                                         |        |
| Q401                  | 8-729-202-67 | TRANSISTOR 2SK246-GR3                   |        |
| Q402                  | 8-729-141-30 | TRANSISTOR 2SC3623A-LK                  |        |
| Q451                  | 8-729-202-67 | TRANSISTOR 2SK246-GR3                   |        |
| Q452                  | 8-729-141-30 | TRANSISTOR 2SC3623A-LK                  |        |
| < RESISTOR >          |              |                                         |        |
| R425                  | 1-249-429-11 | CARBON 10K 5% 1/4W                      |        |
| R426                  | 1-249-439-11 | CARBON 68K 5% 1/4W                      |        |
| R427                  | 1-249-417-11 | CARBON 1K 5% 1/4W F                     |        |
| R430                  | 1-249-437-11 | CARBON 47K 5% 1/4W                      |        |
| R431                  | 1-247-843-11 | CARBON 3.3K 5% 1/4W                     |        |
| R432                  | 1-247-883-00 | CARBON 150K 5% 1/4W                     |        |
| R433                  | 1-249-427-11 | CARBON 6.8K 5% 1/4W F                   |        |
| R434                  | 1-249-413-11 | CARBON 470 5% 1/4W F                    |        |
| R438                  | 1-249-441-11 | CARBON 100K 5% 1/4W                     |        |
| R441                  | 1-249-441-11 | CARBON 100K 5% 1/4W                     |        |
| R444                  | 1-247-903-00 | CARBON 1M 5% 1/4W                       |        |
| R464                  | 1-247-903-00 | CARBON 1M 5% 1/4W                       |        |
| R469                  | 1-247-903-00 | CARBON 1M 5% 1/4W                       |        |
| R475                  | 1-249-429-11 | CARBON 10K 5% 1/4W                      |        |
| R476                  | 1-249-439-11 | CARBON 68K 5% 1/4W                      |        |
| R477                  | 1-249-417-11 | CARBON 1K 5% 1/4W F                     |        |
| R480                  | 1-249-437-11 | CARBON 47K 5% 1/4W                      |        |
| R481                  | 1-247-843-11 | CARBON 3.3K 5% 1/4W                     |        |
| R482                  | 1-247-883-00 | CARBON 150K 5% 1/4W                     |        |
| R483                  | 1-249-427-11 | CARBON 6.8K 5% 1/4W F                   |        |
| R484                  | 1-249-413-11 | CARBON 470 5% 1/4W F                    |        |
| R491                  | 1-249-441-11 | CARBON 100K 5% 1/4W                     |        |
| R492                  | 1-247-903-00 | CARBON 1M 5% 1/4W                       |        |
| R494                  | 1-247-903-00 | CARBON 1M 5% 1/4W                       |        |
| < VARIABLE RESISTOR > |              |                                         |        |
| RV404                 | 1-225-229-11 | RES, VAR, CARBON 100KX4 (MASTER VOLUME) |        |
| *****                 |              |                                         |        |
| MISCELLANEOUS         |              |                                         |        |
| *****                 |              |                                         |        |
| 9                     | 1-782-100-11 | WIRE (FLAT TYPE) (23 CORE)              |        |
| 13                    | 1-782-074-11 | WIRE (FLAT TYPE) (7 CORE)               |        |
| 14                    | 1-782-075-11 | WIRE (FLAT TYPE) (9 CORE)               |        |
| △ 56                  | 1-690-609-21 | CORD, POWER                             |        |
| FL201                 | 1-517-662-11 | INDICATOR TUBE, FLUORESCENT             |        |
| Q603                  | 8-749-010-25 | IC MN2488-OPY-M                         |        |
| Q604                  | 8-749-010-26 | IC MP1620-OPY-M                         |        |
| Q653                  | 8-749-010-25 | IC MN2488-OPY-M                         |        |
| Q654                  | 8-749-010-26 | IC MP1620-OPY-M                         |        |
| Q703                  | 8-749-010-25 | IC MN2488-OPY-M                         |        |
| Q704                  | 8-749-010-26 | IC MP1620-OPY-M                         |        |
| Q753                  | 8-749-010-25 | IC MN2488-OPY-M                         |        |
| Q754                  | 8-749-010-26 | IC MP1620-OPY-M                         |        |
| △ T901                | 1-431-258-11 | TRANSFORMER, POWER                      |        |
| *****                 |              |                                         |        |

| Ref. No.                        | Part No.     | Description                   | Remark |
|---------------------------------|--------------|-------------------------------|--------|
| ACCESSORIES & PACKING MATERIALS |              |                               |        |
| *****                           |              |                               |        |
|                                 | 1-475-710-11 | COMMANDER, STANDARD (RM-U302) |        |
|                                 | 1-501-374-11 | ANTENNA, LOOP                 |        |
|                                 | 1-501-659-41 | ANTENNA (FM)                  |        |
|                                 | 1-501-721-11 | ANTENNA (LOOP)                |        |
|                                 | 3-862-695-11 | MANUAL, INSTRUCTION (ENGLISH) |        |
|                                 | 4-981-643-01 | COVER, BATTERY (For RM-U302)  |        |
| *****                           |              |                               |        |
| *****                           |              |                               |        |
| HARDWARE LIST                   |              |                               |        |
| *****                           |              |                               |        |
| #1                              | 7-682-547-04 | SCREW +B 3X6                  |        |
| #2                              | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S     |        |

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Replace only with part number specified.

