

# STR-DE185

## SERVICE MANUAL

Ver 1.1 2003. 11

US Model  
AEP Model  
UK Model



### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output (Models of area code US only).

##### Amplifier section

###### POWER OUTPUT

Models of area code US  
Rated Power Output at Stereo Mode  
(8 ohms 40 Hz – 20 kHz, THD 0.09 %)  
100 W + 100 W

Models of area code AEP, UK  
Rated Power Output at Stereo Mode  
(8 ohms 1 kHz, THD 0.7 %)  
100 W + 100 W<sup>1)</sup>

1) Measured under the following conditions:

| Area code | Power requirements |
|-----------|--------------------|
| AEP, UK   | 230 V AC, 50 Hz    |

###### Frequency response

|                               |   |
|-------------------------------|---|
| CD, MD/TAPE, VIDEO 1, VIDEO 2 | 20 Hz – 50 kHz<br>+0/-0.5 dB (with bass boost bypassed) |
|-------------------------------|---|

###### Inputs (Analog)

|                               |   |
|-------------------------------|---|
| CD, MD/TAPE, VIDEO 1, VIDEO 2 | Sensitivity: 250 mV<br>Impedance: 50 kilohms<br>S/N <sup>2)</sup> : 85 dB<br>(A, 250 mV <sup>3)</sup> ) |
|-------------------------------|---|

2) INPUT SHORT.

3) Weighted network, input level.

###### Outputs

|                  |  |
|------------------|--|
| MD/TAPE, VIDEO 1 | Voltage: 250 mV<br>Impedance: 10 kilohms |
|------------------|--|

|             |                             |
|-------------|-----------------------------|
| Bass Boost: | +8 dB at 70 Hz              |
| Tone:       | ±10 dB at 100 Hz and 10 kHz |

###### FM tuner section

|                              |                                |
|------------------------------|--------------------------------|
| Tuning range                 | 87.5 – 108.0 MHz               |
| Antenna terminals            | 75 ohms, unbalanced            |
| Intermediate frequency       | 10.7 MHz                       |
| Sensitivity                  |                                |
| Mono:                        | 18.3 dBf, 2.2 $\mu$ V/75 ohms  |
| Stereo:                      | 38.3 dBf, 22.5 $\mu$ V/75 ohms |
| Usable sensitivity           | 11.2 dBf, 1 $\mu$ V/75 ohms    |
| S/N                          |                                |
| Mono:                        | 76 dB                          |
| Stereo:                      | 70 dB                          |
| Harmonic distortion at 1 kHz |                                |
| Mono:                        | 0.5%                           |
| Stereo:                      | 0.8%                           |
| Separation                   | 35 dB at 1 kHz                 |
| Frequency response           | 30 Hz – 15 kHz,<br>+0.5/-2 dB  |
| Selectivity                  | 60 dB at 400 kHz               |

– Continued on next page –

## FM STEREO/FM-AM RECEIVER

9-873-586-02

2003K04-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

## AM tuner section

### Tuning range

Models of area code US

With 10-kHz tuning scale: 530 – 1710 kHz<sup>4)</sup>

With 9-kHz tuning scale: 531 – 1710 kHz<sup>4)</sup>

Models of area code AEP, UK

With 9-kHz tuning scale: 531 – 1602 kHz

|                        |                                   |
|------------------------|-----------------------------------|
| Antenna                | Loop antenna                      |
| Intermediate frequency | 450 kHz                           |
| Usable sensitivity     | 50 dB/m (at 1,000 kHz or 999 kHz) |
| S/N                    | 45 dB (at 50 mV/m)                |
| Harmonic distortion    | 1.0 % (50 mV/m, 400 Hz)           |
| Selectivity            |                                   |
| At 9 kHz:              | 35 dB                             |
| At 10 kHz:             | 40 dB                             |

- 4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down PRESET TUNING + and press I/C. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

## General

### Power requirements

| Area code | Power consumption  |
|-----------|--------------------|
| US        | 120 V AC, 60 Hz    |
| AEP, UK   | 230 V AC, 50/60 Hz |

### Power consumption

| Area code | Power consumption |
|-----------|-------------------|
| US        | 190 W             |
| AEP, UK   | 210 W             |

### Power consumption (during standby mode)

0.5 W (for models of all area code)

### AC outlets

| Area code | AC outlets               |
|-----------|--------------------------|
| US        | 1 switched, 120 W/1A MAX |
| AEP, UK   | 1 switched, 100 W MAX    |

Dimensions 430 × 145 × 300 mm  
(16 7/8 × 5 6/8 × 11 6/8 in.)  
including projecting parts and controls

Mass (Approx.) 7.0 kg (15 lb 7 oz)

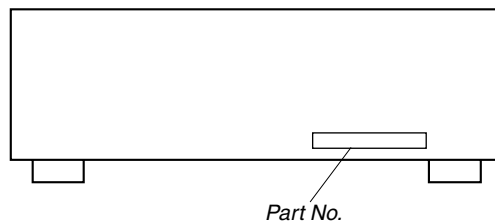
### Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-U185 (1)
- R6 (size-AA) batteries (2)

Design and specifications are subject to change without notice.

## MODEL IDENTIFICATION

— BACK PANEL —



| MODEL | PART No.     |
|-------|--------------|
| US    | 4-238-277-0□ |
| AEP   | 4-238-277-1□ |
| UK    | 4-238-277-2□ |

## 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.

## SAFETY CHECK-OUT

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

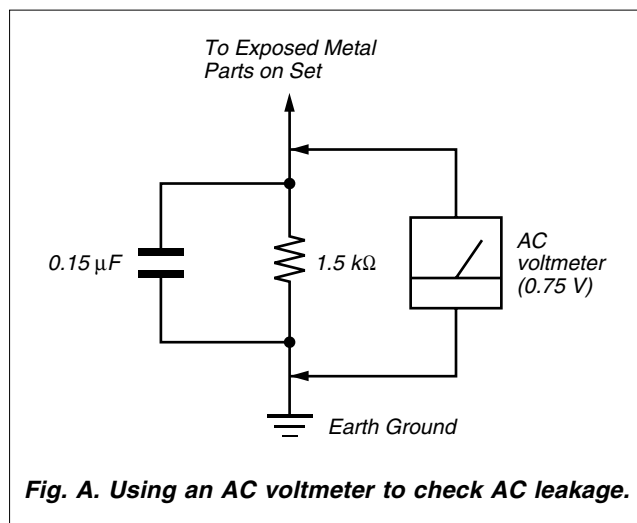
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

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.**

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|-------|----|

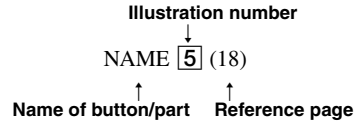
SECTION 1  
GENERAL

This section is extracted from instruction manual.

List of Button Locations and Reference Pages

How to use this page

Use this page to find the location of buttons that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A - H

- AM **8** (13, 14)
- BALANCE L/R **10** (12)
- BASS +/- **21** (12)
- BASS BOOST **19** (12)
- CD **15** (8, 12)
- DIRECT **25** (13)
- DISPLAY **11** (12, 16)
- Display **9** (11-16, 18, 19)
- FM **6** (13, 14)
- FM MODE **23** (14)

I - O

- IR (receptor) **2** (4, 22)

- MASTER VOLUME **17** (12, 20)
- MD/TAPE **14** (8, 12)
- MEMORY/ENTER **24** (13, 15, 18)
- MUTING **18** (12, 20)
- NAME **5** (18)
- Numeric buttons **3** (13)

P - S

- PHONES **29** (12, 21)
- PRESET/PTY SELECT +/- (models of area code CEL, CEK) **7** (15, 16)
- PRESET TUNING +/- (models of area code U) **7** (15, 23)
- PTY (models of area code CEL, CEK) **4** (16)

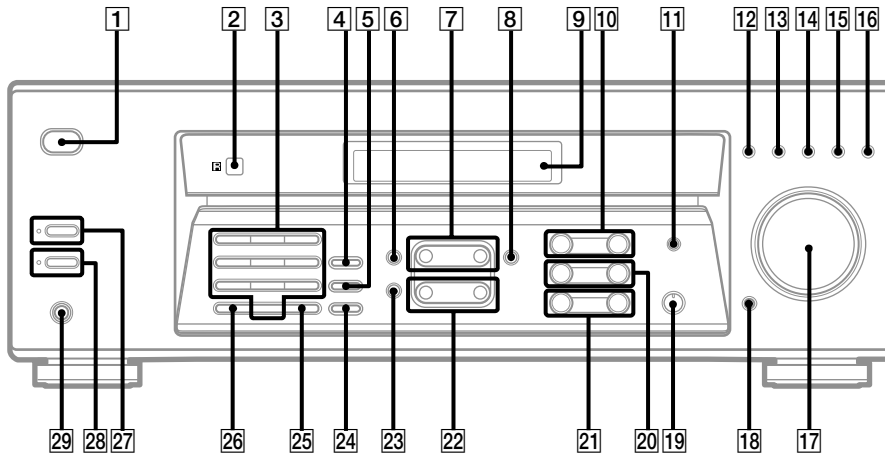
- SHIFT **26** (15)
- SLEEP (models of area code U) **4** (19)
- SPEAKERS A **27** (10, 12)
- SPEAKERS B **28** (10, 12)

T - Z

- TREBLE +/- **20** (12)
- TUNER **16** (8, 12-15, 18)
- TUNING/CHAR +/- **22** (14, 18)
- VIDEO 1 **12** (12)
- VIDEO 2 **13** (8, 12)

BUTTON DESCRIPTIONS

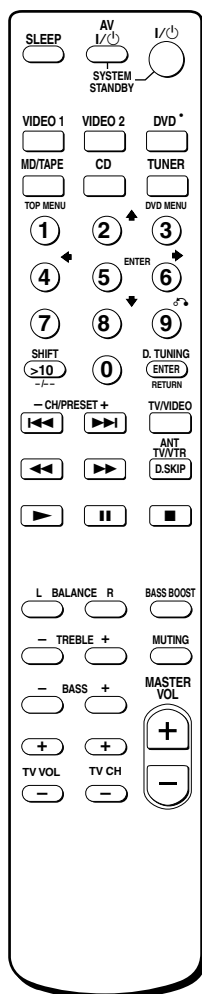
- I/⏻ (power) **1** (11, 13, 23)



List of Button Locations and Reference Pages

## Remote button description

You can use the remote RM-U185 to operate the components in your system.



The tables below show the settings of each button.

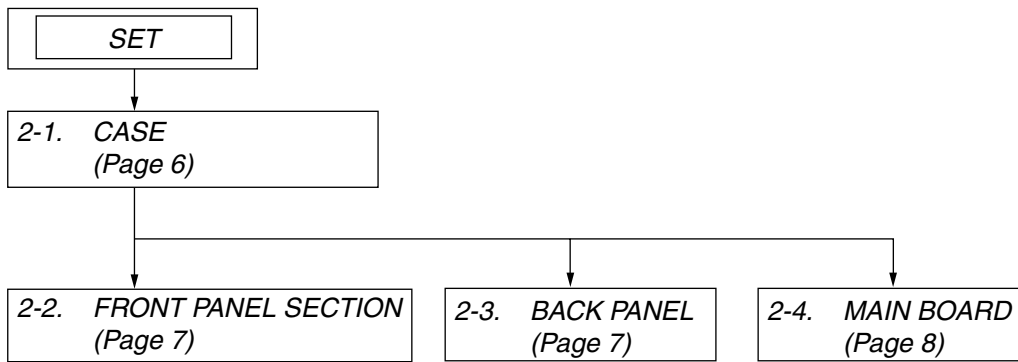
| Remote Button | Operations | Function   |
|---------------|------------|--|
| SLEEP         | Receiver   | Activates the sleep function and the duration which the receiver turns off automatically.            |
| I/O           | Receiver   | Turns the receiver on or off.  |
| VIDEO 1       | Receiver   | To watch VCR. (VTR mode 3)   |
| VIDEO 2       | Receiver   | To watch VCR. (VTR mode 1)   |
| DVD           | Receiver   | To watch DVD.  |
| MD/TAPE       | Receiver   | To listen to Minidisc or audio tape.   |
| CD            | Receiver   | To listen to compact disc.   |
| TUNER         | Receiver   | To listen to radio programs.   |
| SHIFT         | Receiver   | Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations. |
| D.TUNING      | Receiver   | Tuner station direct key-in-mode.  |
| BALANCE L/R   | Receiver   | Adjust the balance.  |
| BASS BOOST    | Receiver   | Reinforce the bass.  |
| TREBLE +/-    | Receiver   | Adjust the treble tone quality.  |
| MUTING        | Receiver   | Mutes the sound from the receiver.   |
| BASS +/-      | Receiver   | Adjust the bass tone quality.  |

### Note

When you press the function buttons (VIDEO 1, VIDEO 2, DVD), the input mode of the TV might not switch to the corresponding input mode that you want. In this case, press the TV/VIDEO button to switch the input mode of the TV.

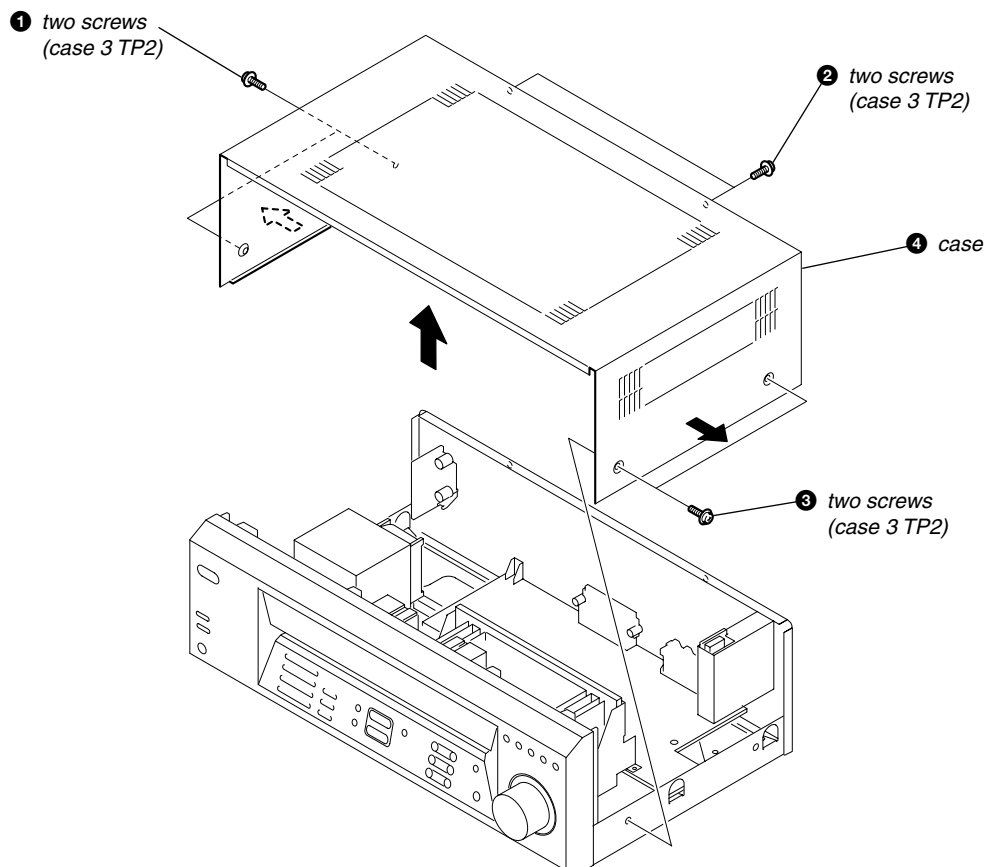
## SECTION 2 DISASSEMBLY

**Note :** This set can be disassemble according to the following sequence.

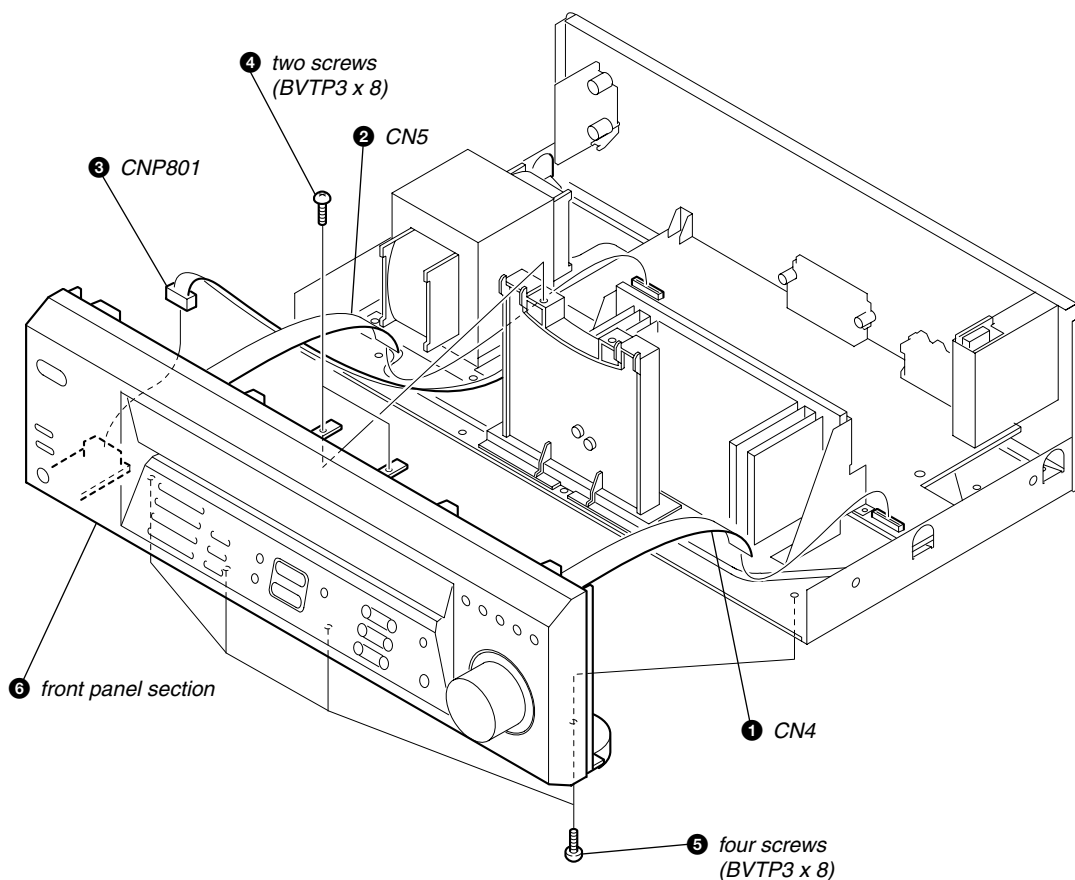


**Note :** Follow the disassembly procedure in the numerical order given.

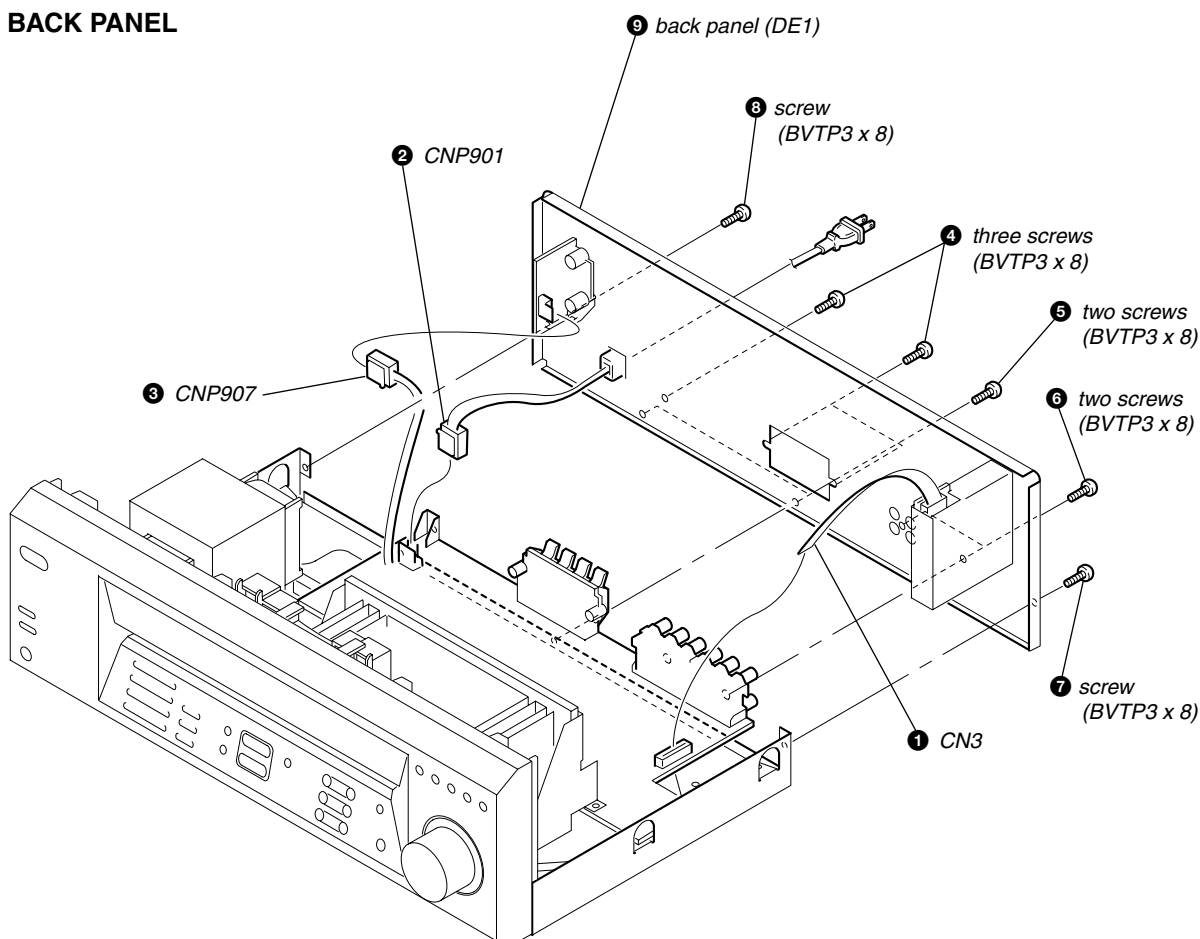
### 2-1. CASE



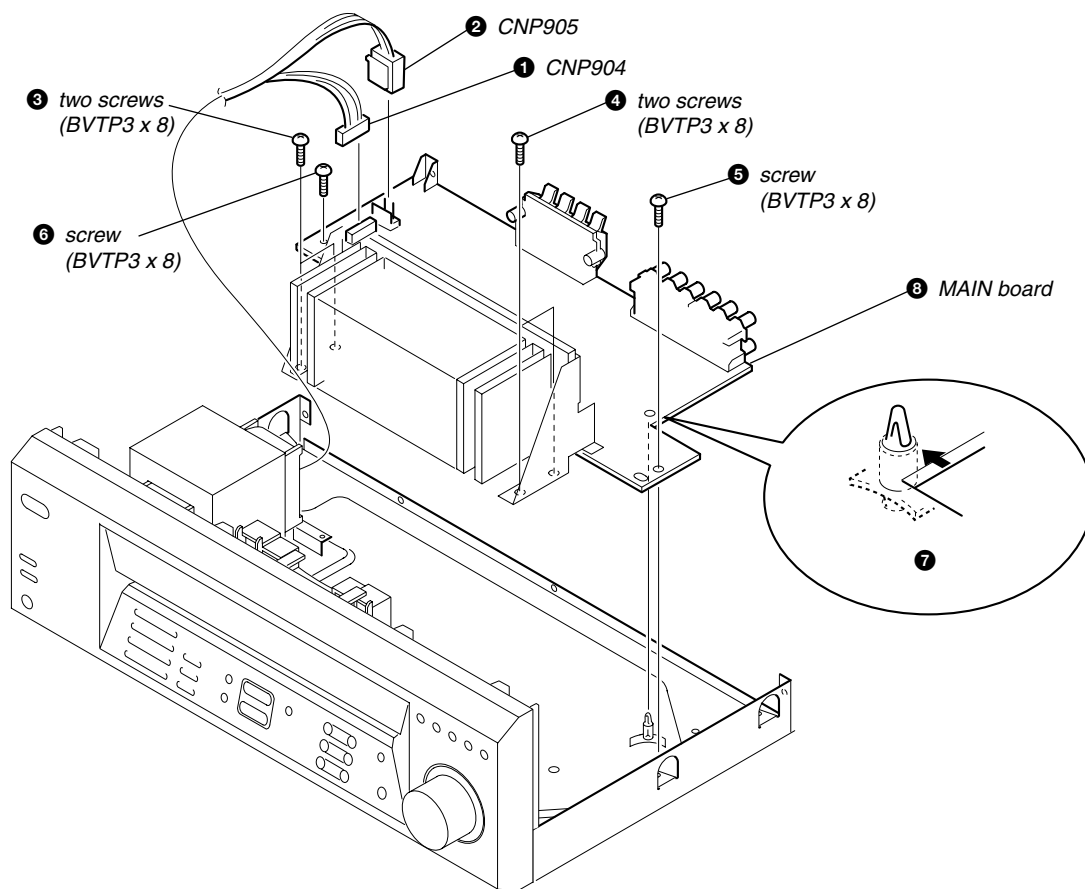
2-2. FRONT PANEL SECTION



2-3. BACK PANEL



2-4. MAIN BOARD





## SECTION 3 TEST MODE

### Fluorescent Indicator Tube Test Mode

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

#### Procedure:

1. While pressing the five function buttons of [VIDEO 1], [VIDEO 2], [MD/TAPE], [CD] and [TUNER] simultaneously, press the [I/⏻] button to turn the power ON.
2. The FL tube will illuminate in half light on. The following display will be repeated whenever the five function buttons are pressed.
  - Operation of function buttons  
all light on → half light on 1 → half light on 2 → all light off
3. Press any button other than the function buttons to release the check mode.

### AUTO-BETICAL Check Mode (AEP, UK models)

To auto-scanning and memories of RDS station.

#### Procedure:

1. While pressing the [MEMORY/ENTER] button, press the [I/⏻] button to turn the power ON.
2. The message "AUTO-BETICAL SELECT" are scrolled.

### AM Tuning Interval Selection Mode (US model)

Either 9 kHz step or 10 kHz step can be selected for the AM tuning interval.

#### Procedure:

1. While pressing the [TUNING/CHAR +] button, press the [I/⏻] button to turn the power ON.
2. Either the message "9k STEP" or "10k STEP" appears.
3. Select the desired step.

### Software Version Display Mode

The software version is displayed.

#### Procedure:

1. While pressing the two buttons of [SPEAKERS B] and [VIDEO 1] simultaneously, press the [I/⏻] button to turn the power ON.
2. The software version is displayed.

ex.) US model : U\*\*\*  
 AEP, UK model : CE\*\*\*

↑     ↑  
 Shift version  
 Area

## SECTION 4 DIAGRAMS

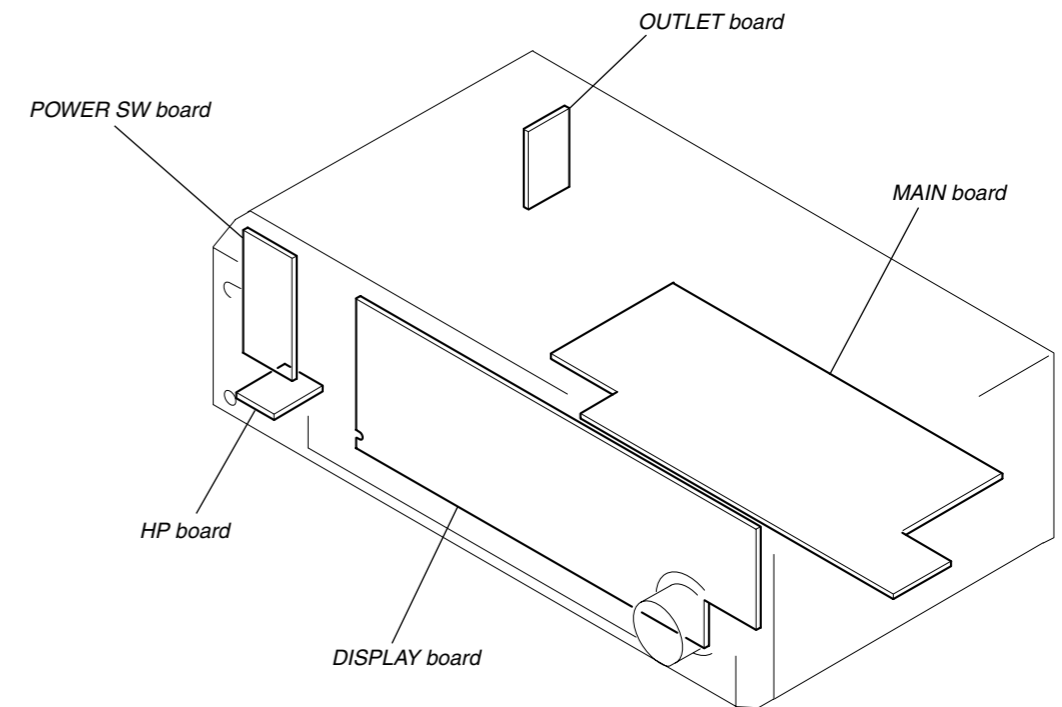
### 4-1. IC PIN DESCRIPTION

#### • IC201 $\mu$ PD78044FGF-200-3B9 (SYSTEM CONTROLLER, FL DRIVER)

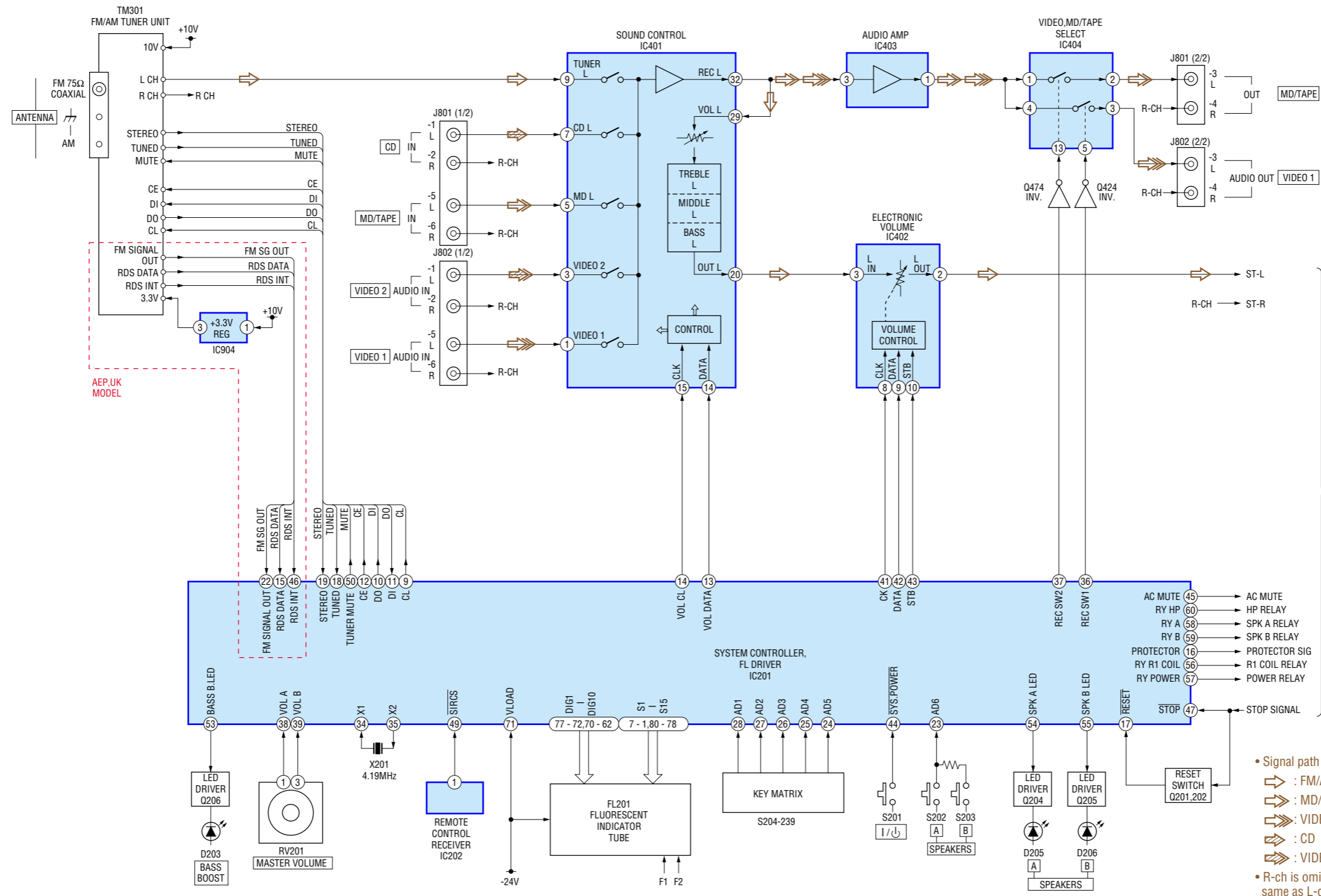
| Pin No.  | Pin Name                      | I/O | Pin Description   |
|----------|-------------------------------|-----|---|
| 1 to 7   | DIG7 to 1                     | O   | Digit drive signal output to the fluorescent indicator tube (FL201).                          |
| 8        | +5V                           | —   | Power supply pin (+5 V)   |
| 9        | CL                            | O   | Serial clock signal output to FM/AM tuner pack.   |
| 10       | DO                            | O   | Serial data signal output to FM/AM tuner pack.  |
| 11       | DI                            | I   | Serial data signal input from FM/AM tuner pack.   |
| 12       | CE                            | O   | Serial chip enable signal output to FM/AM tuner pack.   |
| 13       | VOL DATA                      | O   | Serial data signal output to sound control IC.  |
| 14       | VOL CE                        | O   | Serial clock signal output to sound control IC.   |
| 15       | RDS DATA                      | I   | RDS data signal input from FM/AM tuner pack. (AEP, UK model only)                             |
| 16       | PROTECTOR                     | I   | Overload detection signal input   |
| 17       | $\overline{\text{RESET}}$     | I   | Reset signal input  |
| 18       | TUNED                         | I   | TUNED indicator detection signal input from FM/AM tuner pack.                                 |
| 19       | STEREO                        | I   | STEREO indicator detection signal input from FM/AM tuner pack.                                |
| 20       | AVSS                          | —   | Analog ground   |
| 21       | VERSION                       | I   | Destination select signal input (Fixed at H: US model, L: AEP, UK model)                      |
| 22       | FM SIGNAL OUT                 | I   | FM/AM signal meter voltage detection signal input from FM/AM tuner pack. (AEP, UK model only) |
| 23 to 28 | AD6 to 1                      | I   | Function keys signal input  |
| 29       | AVDD                          | —   | A/D converter power supply pin (+5 V)   |
| 30       | AVREF                         | —   | A/D converter reference voltage input (+5 V)  |
| 31       | NC                            | —   | Not used. (Connect to AVREF pin in this set)  |
| 32       | OPEN                          | —   | Not used. (Open)  |
| 33       | GND                           | —   | Ground  |
| 34       | X1                            | I   | Master clock input (4.19 MHz)   |
| 35       | X2                            | O   | Master clock output (4.19 MHz)  |
| 36       | REC SW1                       | O   | VIDEO 1 ON/OFF signal output  |
| 37       | REC SW2                       | O   | MD/TAPE ON/OFF signal output  |
| 38, 39   | VOL A, B                      | I   | Master volume JOG data input A, B   |
| 40       | FUNC.MUTE                     | O   | Not used. (Fixed at L in this set)  |
| 41       | CK                            | O   | Serial clock signal output to electoric volume IC.  |
| 42       | DATA                          | O   | Serial data signal output to electoric volume IC.   |
| 43       | STB                           | O   | Serial data strobe signal output to electoric volume IC.                                      |
| 44       | $\overline{\text{SYS.POWER}}$ | I   | System power signal input   |
| 45       | AC MUTE                       | O   | A-Class mute signal output  |
| 46       | RDS INT                       | I   | RDS clock signal input from FM/AM tuner pack. (AEP, UK model only)                            |
| 47       | STOP                          | I   | Stop signal input from reset signal generator IC.   |
| 48       | VSS                           | —   | Ground  |
| 49       | $\overline{\text{SIRCS}}$     | I   | Sircs signal input from remote control receiver IC.   |
| 50       | TUNER MUTE                    | O   | Muting control signal output to FM/AM tuner pack.   |
| 51       | NC                            | —   | Not used. (Open)  |
| 52       | +5V                           | —   | Power supply pin (+5 V)   |
| 53       | BASS B. LED                   | O   | BASS BOOST LED drive signal output  |
| 54       | SPK A LED                     | O   | SPEAKERS A LED drive signal output  |
| 55       | SPK B LED                     | O   | SPEAKERS B LED drive signal output  |

| Pin No.  | Pin Name   | I/O | Pin Description  |
|----------|------------|-----|--|
| 56       | RY R1 COIL | O   | Power relay (12V) drive signal output                                  |
| 57       | RY POWER   | O   | AC power relay (9V) drive signal output                                |
| 58       | RY A       | O   | Speakers A relay (12V) drive signal output                             |
| 59       | RY B       | O   | Speakers B relay (12V) drive signal output                             |
| 60       | RY HP      | O   | Phones relay (12V) drive signal output                                 |
| 61       | NC         | —   | Not used. (Open)   |
| 62 to 70 | S15 to 7   | O   | Segment drive signal output to the fluorescent indicator tube (FL201). |
| 71       | VLOAD      | —   | Power supply pin (-24 V)   |
| 72 to 77 | S6 to 1    | O   | Segment drive signal output to the fluorescent indicator tube (FL201). |
| 78 to 80 | DIG10 to 8 | O   | Digit drive signal output to the fluorescent indicator tube (FL201).   |

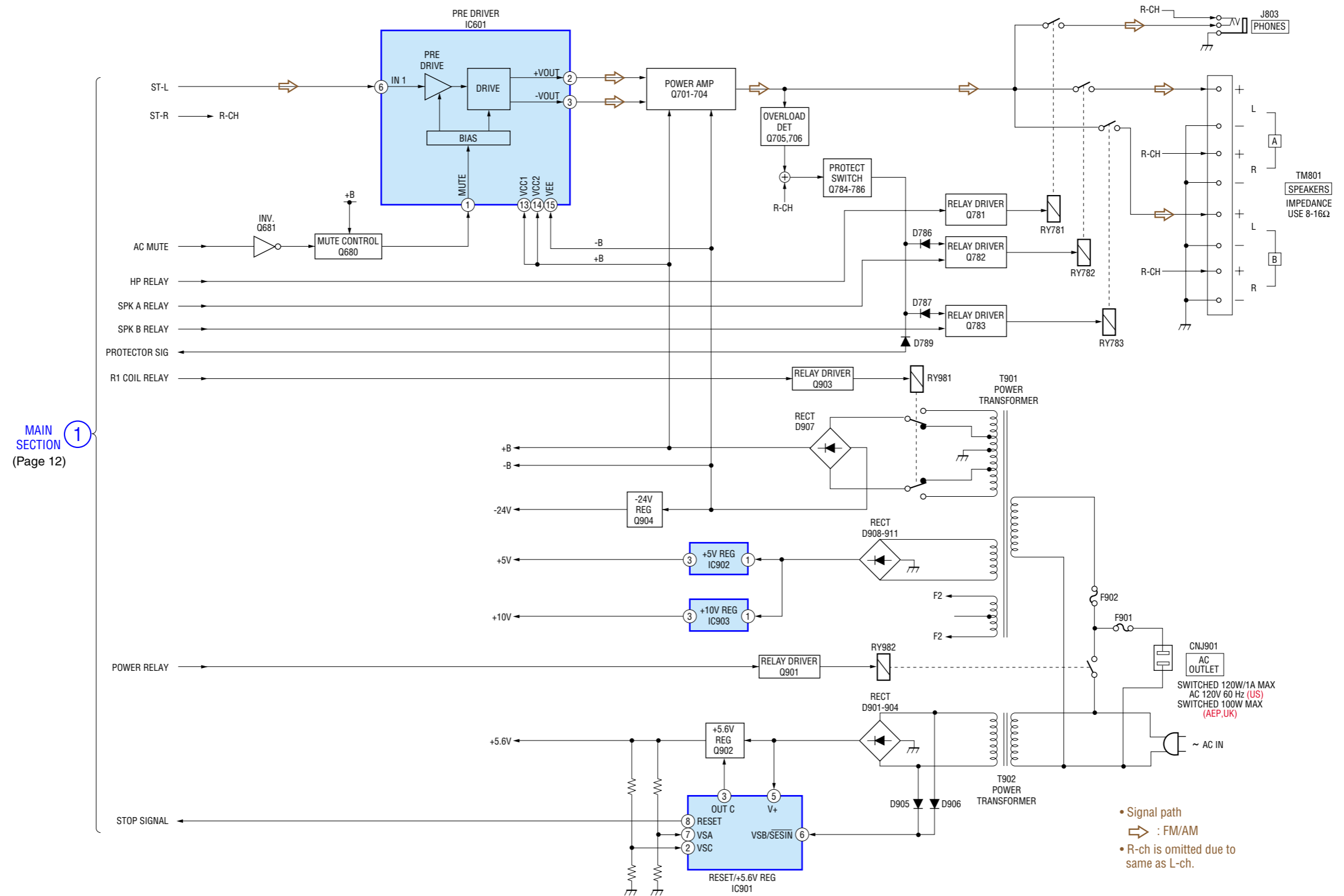
#### 4-2. CIRCUIT BOARDS LOCATION



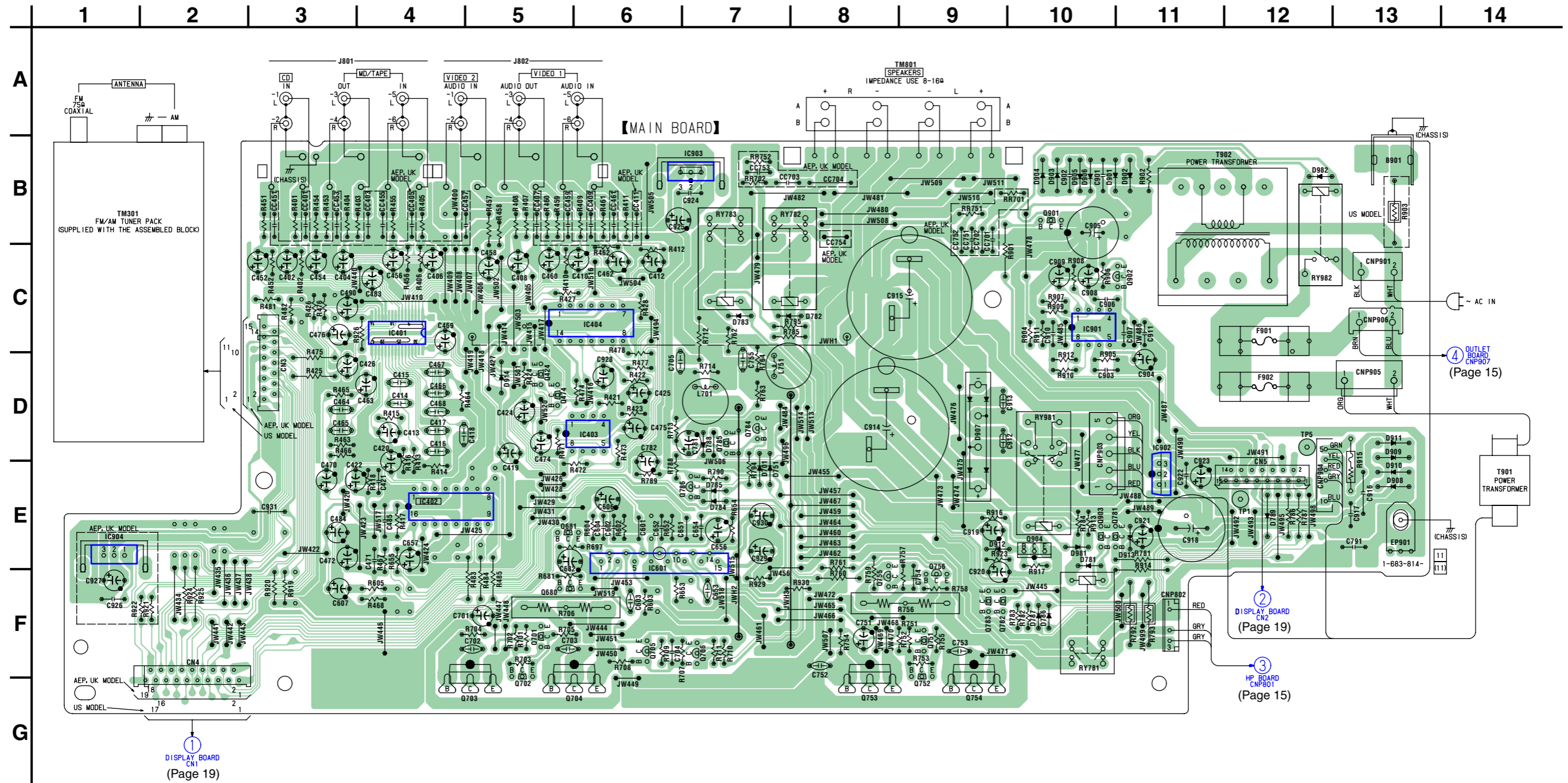
4-3. BLOCK DIAGRAM — MAIN SECTION —



4-4. BLOCK DIAGRAM — POWER SECTION —



4-5. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 11 for Circuit Boards Location and page 15 for Common Note on Printed Wiring Boards.

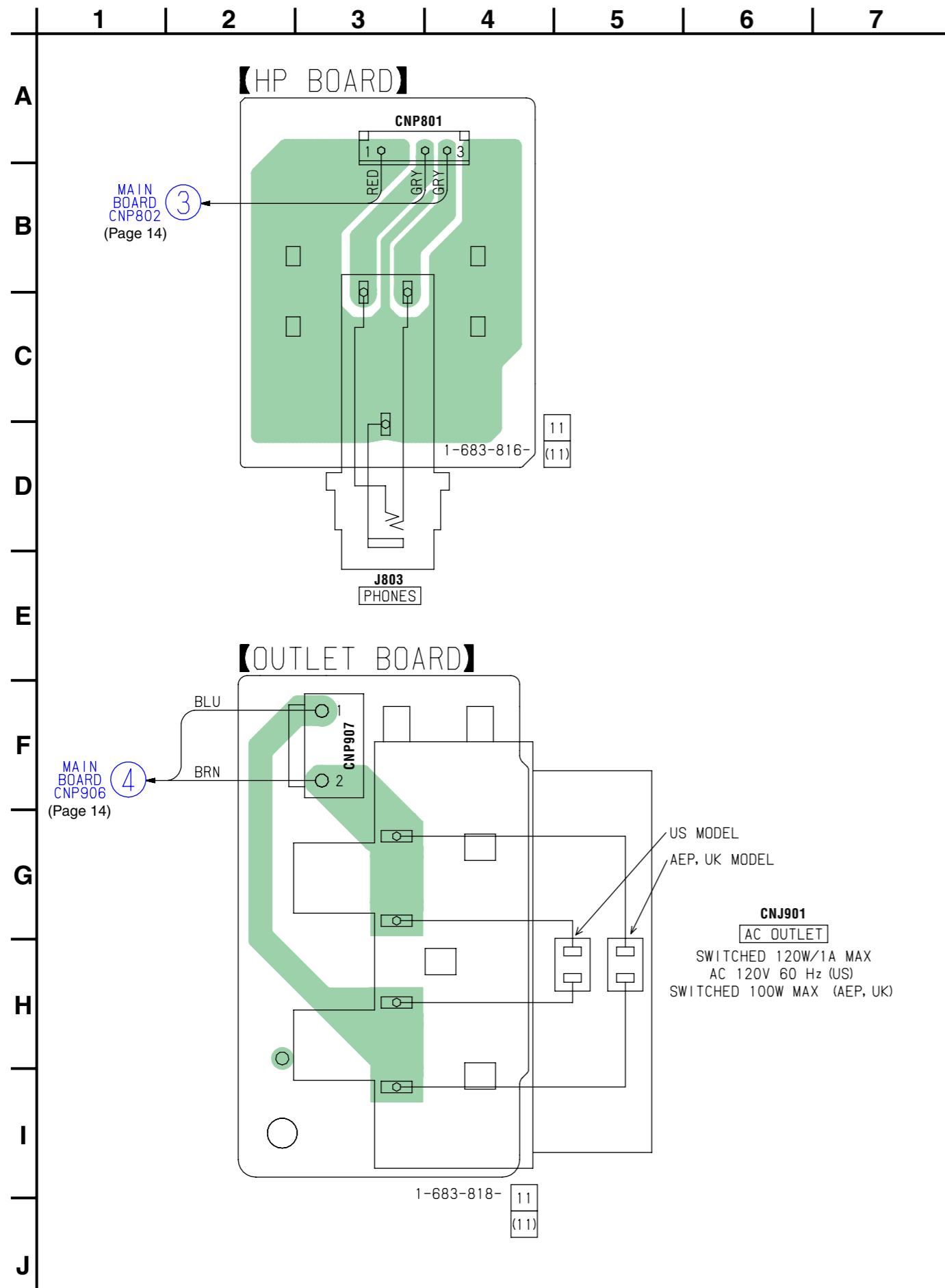


• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|----------|----------|
| D701     | E-7      | D906     | B-10     | IC601    | E-6      | Q751     | G-9      |
| D751     | E-7      | D907     | D-9      | IC901    | C-10     | Q752     | G-9      |
| D781     | E-10     | D908     | E-13     | IC902    | D-11     | Q753     | G-8      |
| D782     | C-8      | D909     | D-13     | IC903    | B-7      | Q754     | G-9      |
| D783     | C-7      | D910     | E-13     | (IC904)  | E-1      | Q755     | F-8      |
| D784     | E-7      | D911     | D-13     |          |          | Q756     | E-9      |
| D785     | E-7      | D912     | E-9      | Q424     | D-5      | Q781     | E-10     |
| D786     | F-10     | D913     | E-11     | Q474     | D-5      | Q782     | F-9      |
| D787     | F-10     | D914     | D-5      | Q680     | F-5      | Q783     | F-9      |
| D788     | D-7      | D981     | E-10     | Q681     | E-5      | Q784     | D-7      |
| D789     | E-12     | D982     | B-12     | Q701     | F-5      | Q785     | D-7      |
| D901     | B-10     |          |          | Q702     | G-5      | Q786     | E-6      |
| D902     | B-11     | IC401    | C-4      | Q703     | G-4      | Q901     | B-10     |
| D903     | B-10     | IC402    | E-4      | Q704     | G-6      | Q902     | C-11     |
| D904     | B-10     | IC403    | D-6      | Q705     | F-6      | Q903     | E-10     |
| D905     | B-10     | IC404    | C-6      | Q706     | F-7      | Q904     | E-10     |




( ) : AEP, UK model

4-6. PRINTED WIRING BOARDS — H/P, OUTLET SECTION — • Refer to page 11 for 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 diagram:**

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

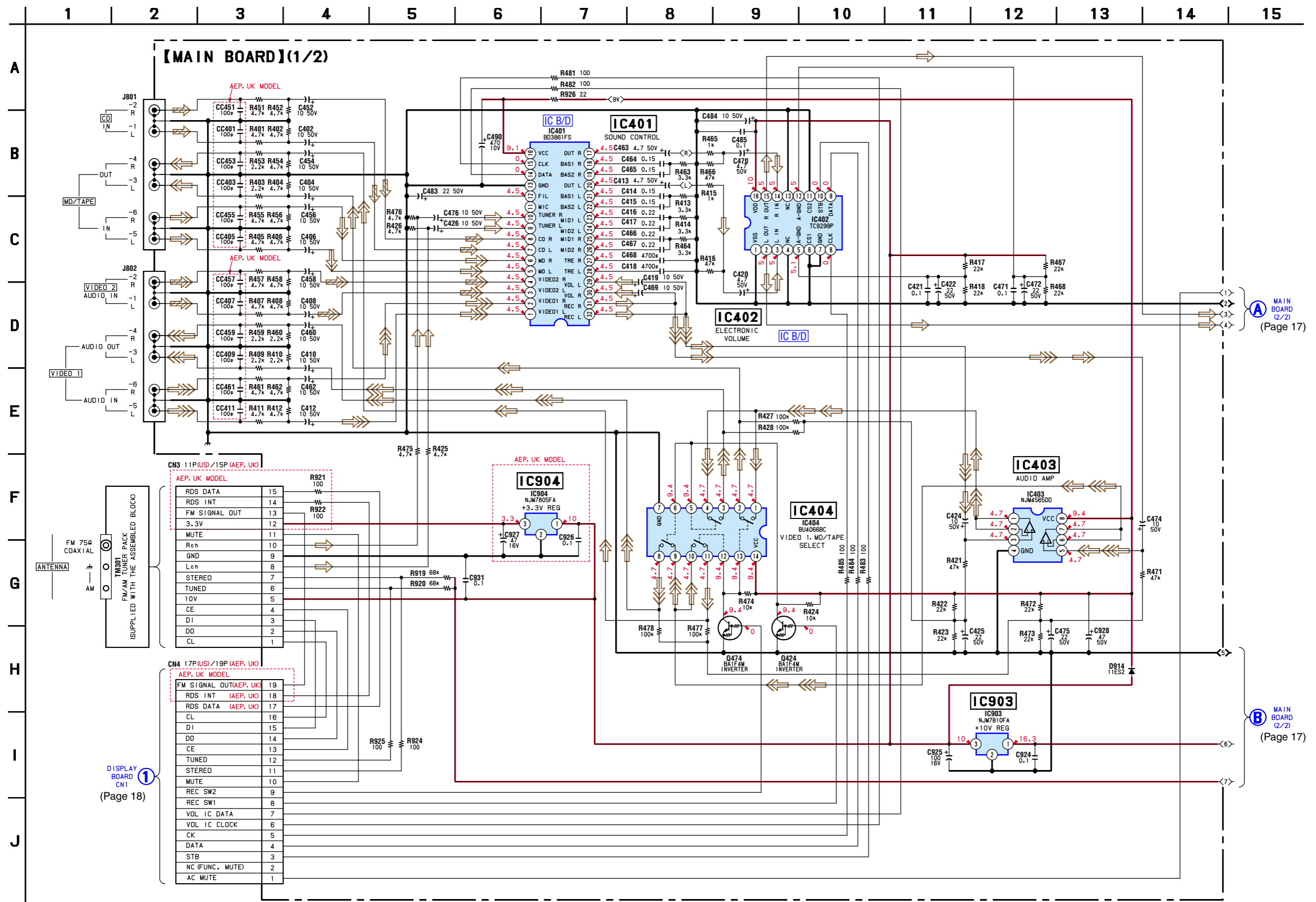
**Note:** The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
- Voltage 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 M $\Omega$ ).  
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.  
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  -  : FM/AM
  -  : MD/TAPE
  -  : VIDEO 1
  -  : CD
  -  : VIDEO 2

**for printed wiring boards:**

-  : parts extracted from the component side.
- $\Delta$  : internal component.
-  : Pattern from the side which enables seeing.

4-7. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 15 for Common Note on Schematic Diagram and page 20 for IC Block Diagrams.

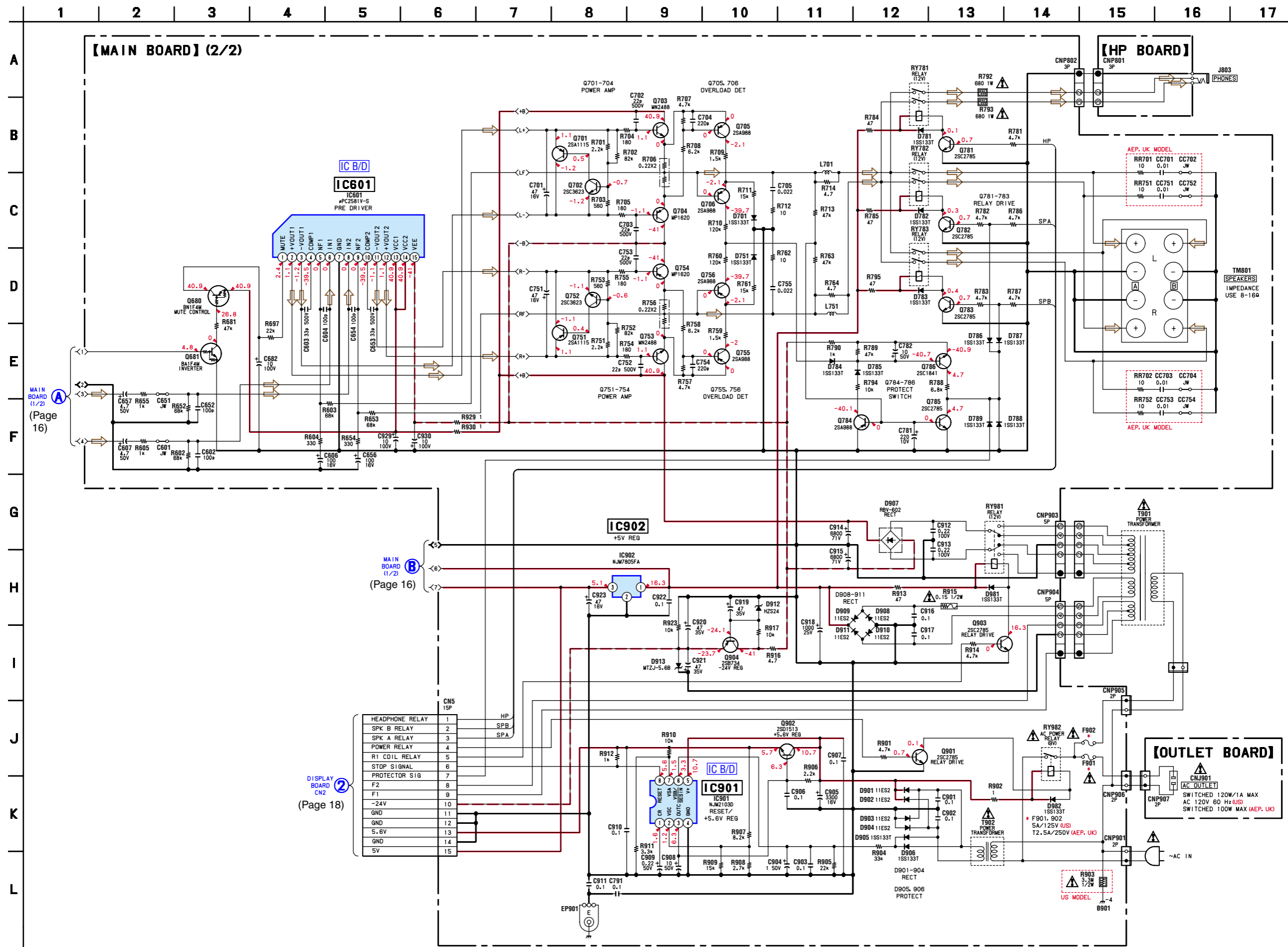


MAIN BOARD (2/2) (Page 17)

MAIN BOARD (2/2) (Page 17)

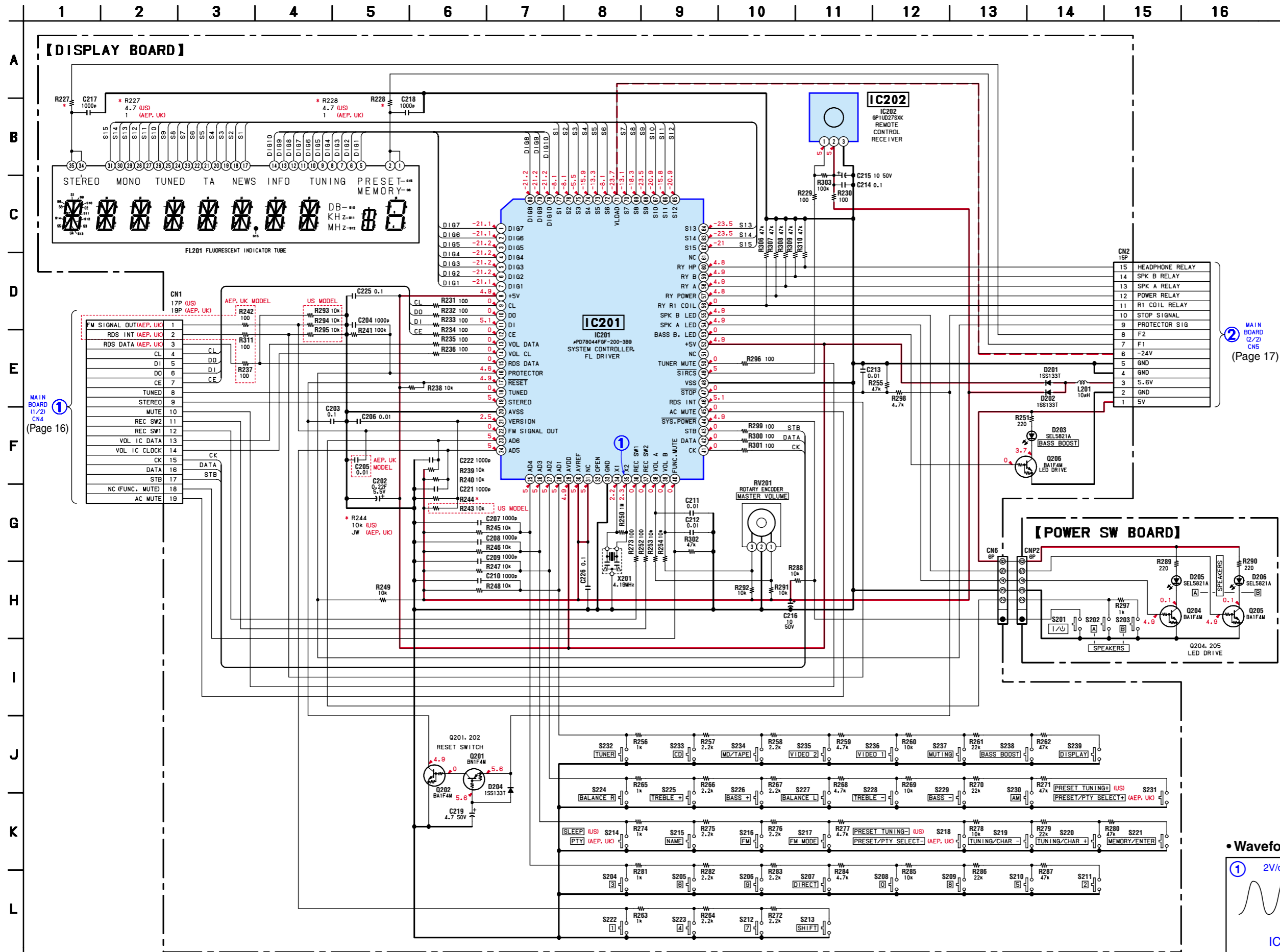


4-8. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 15 for Common Note on Schematic Diagram and page 20 for IC Block Diagrams.



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

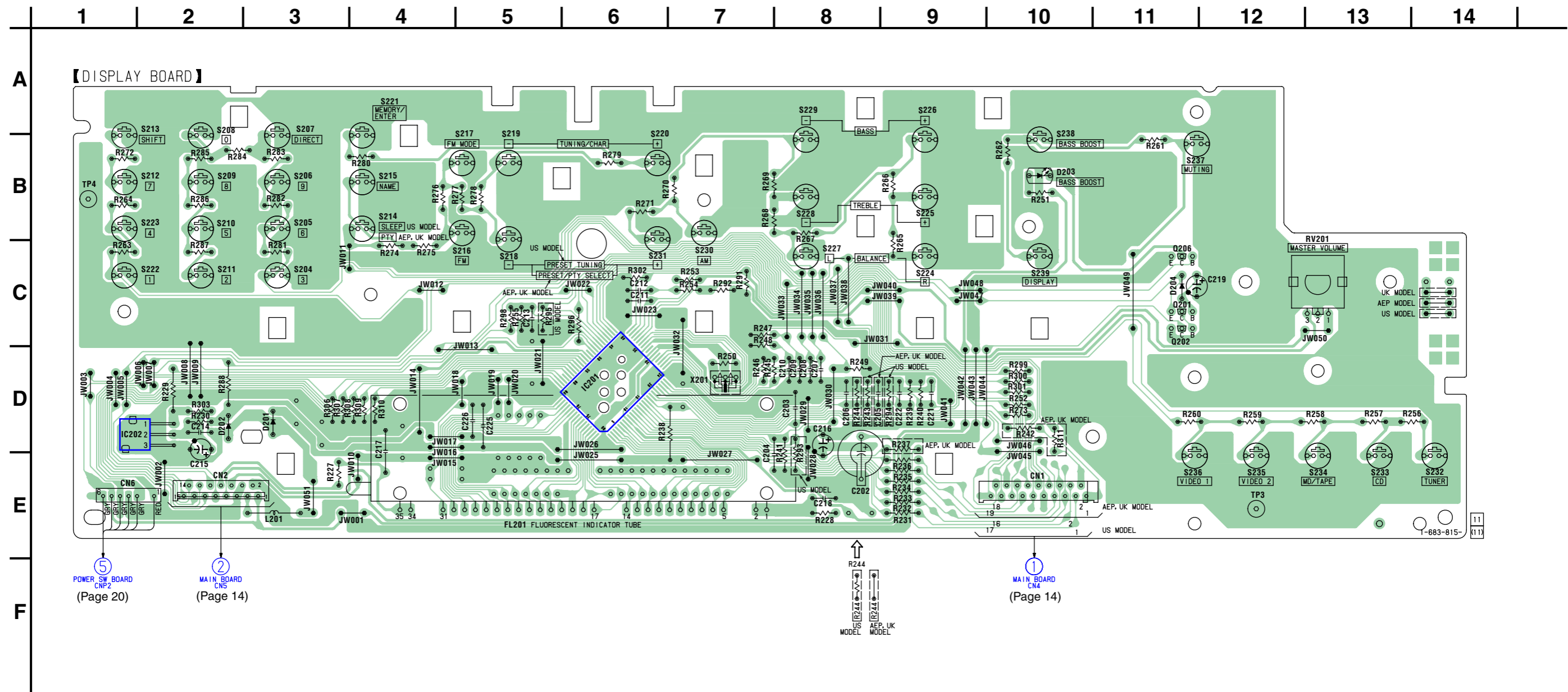
4-9. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 15 for Common Note on Schematic Diagram.



② MAIN BOARD (2/2) CNS (Page 17)

① MAIN BOARD (1/2) CN4 (Page 16)

4-10. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 11 for Circuit Boards Location and page 15 for Common Note on Printed Wiring Boards.

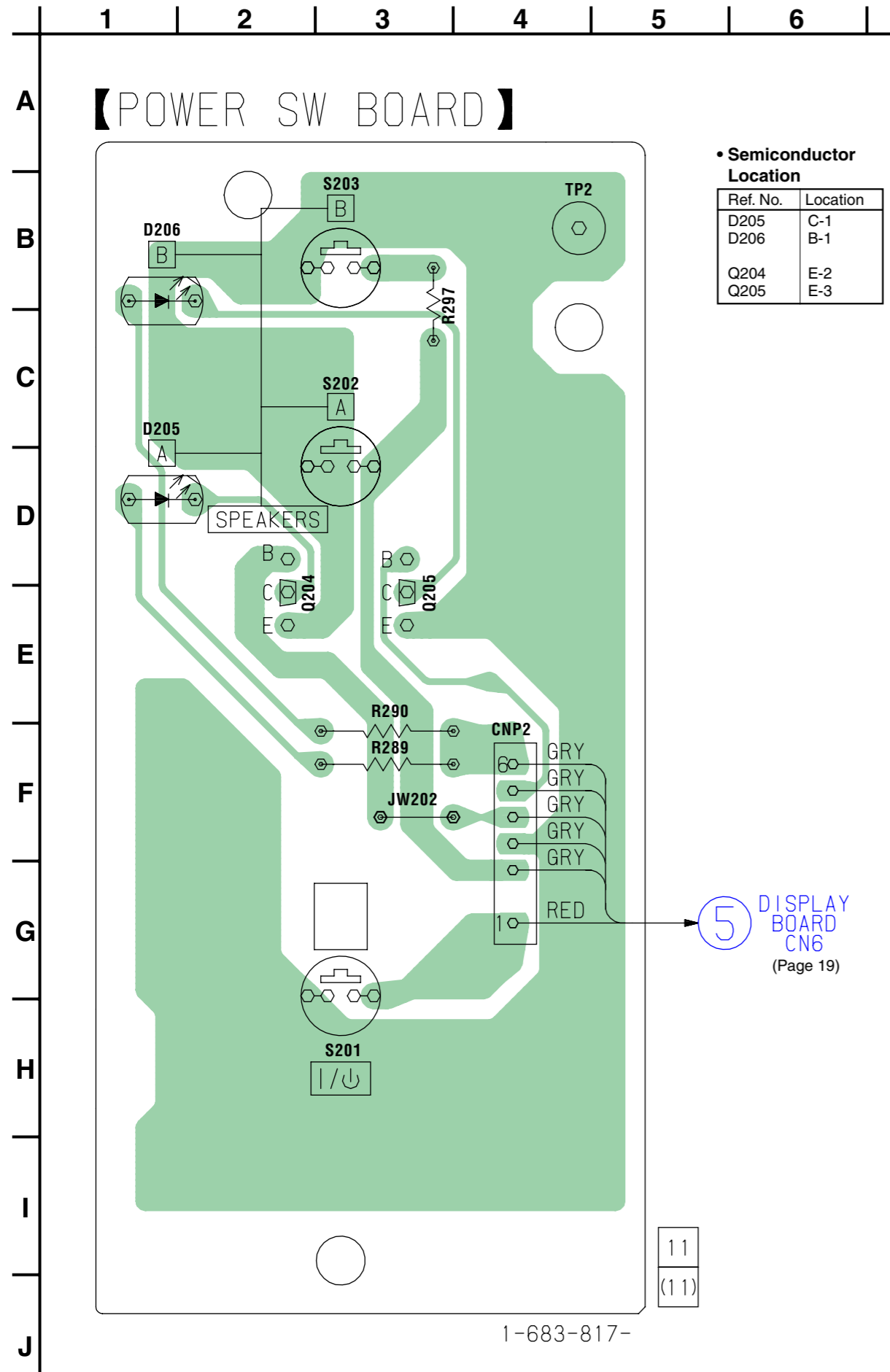


• Semiconductor Location

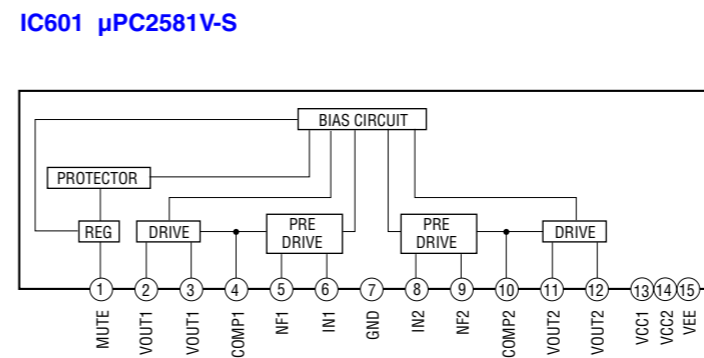
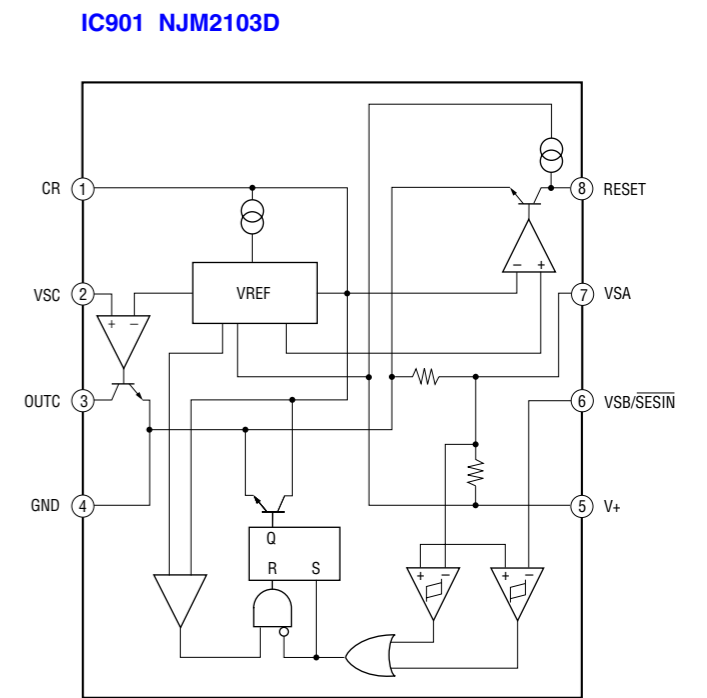
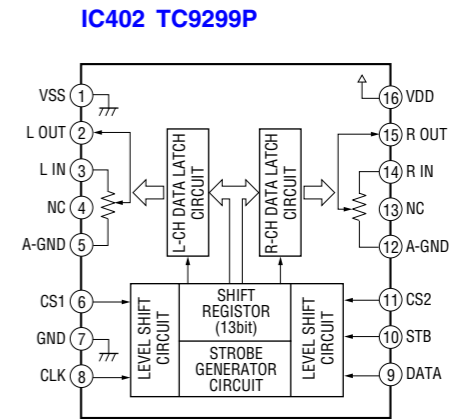
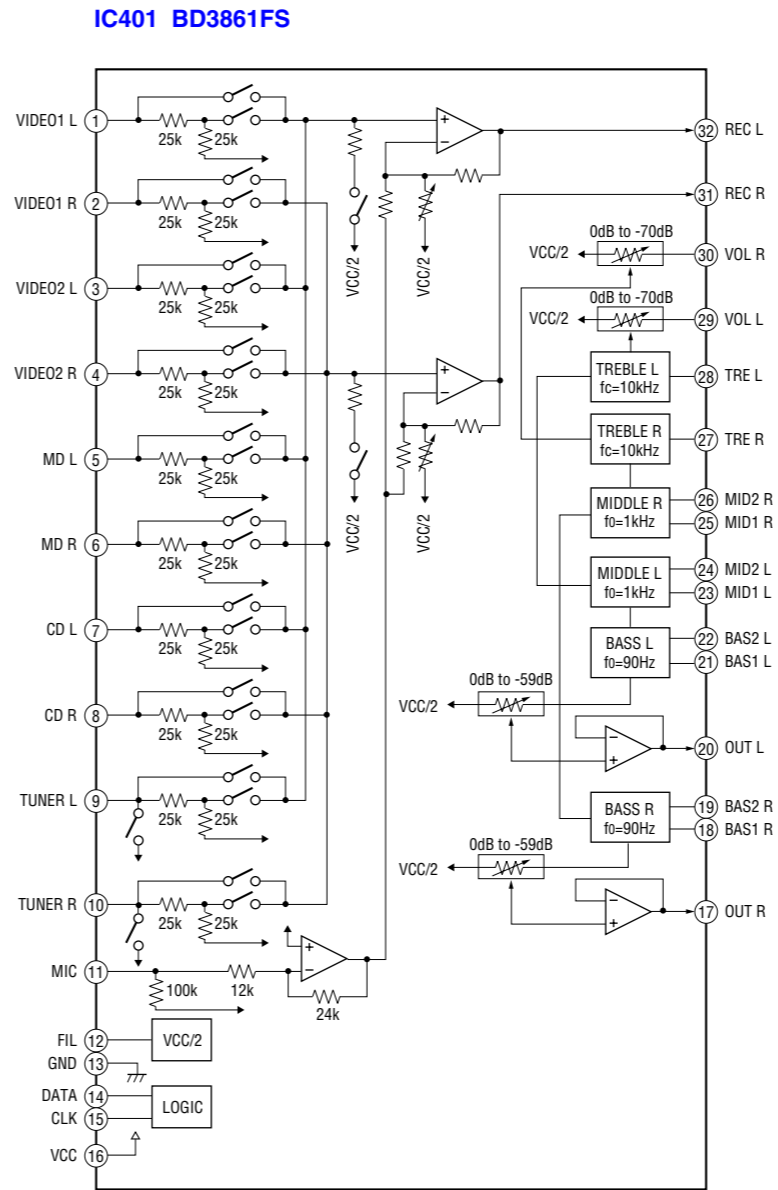
| Ref. No. | Location |
|----------|----------|
| D201     | D-3      |
| D202     | D-2      |
| D203     | B-10     |
| D204     | C-11     |
| IC201    | D-6      |
| IC202    | D-1      |
| Q201     | C-11     |
| Q202     | C-11     |
| Q206     | C-11     |

4-11. PRINTED WIRING BOARD — POWER SW SECTION —

• Refer to page 11 for Circuit Boards Location and page 15 for Common Note on Printed Wiring Boards.



• IC Block Diagrams



## SECTION 5 EXPLODED VIEWS

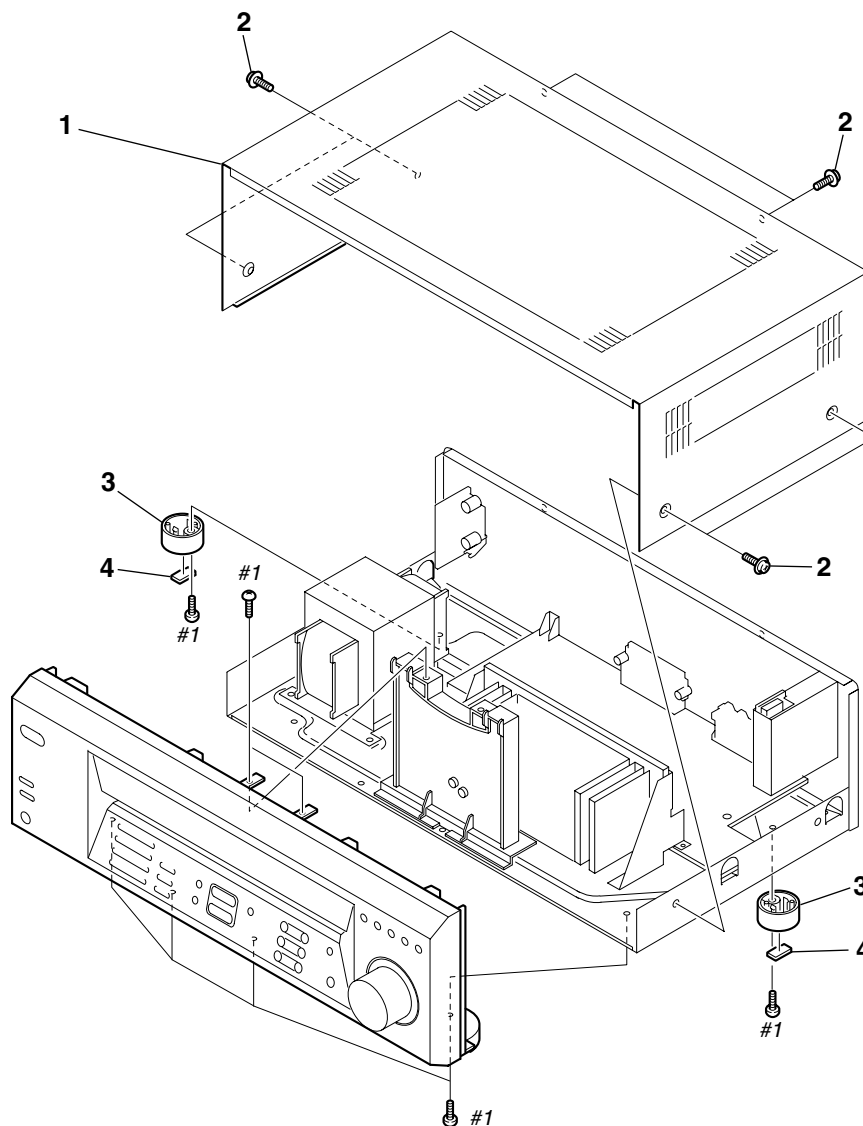
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts  
Example :  
    KNOB, BALANCE (WHITE) ... (RED)  
                  ↑                  ↑  
          Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

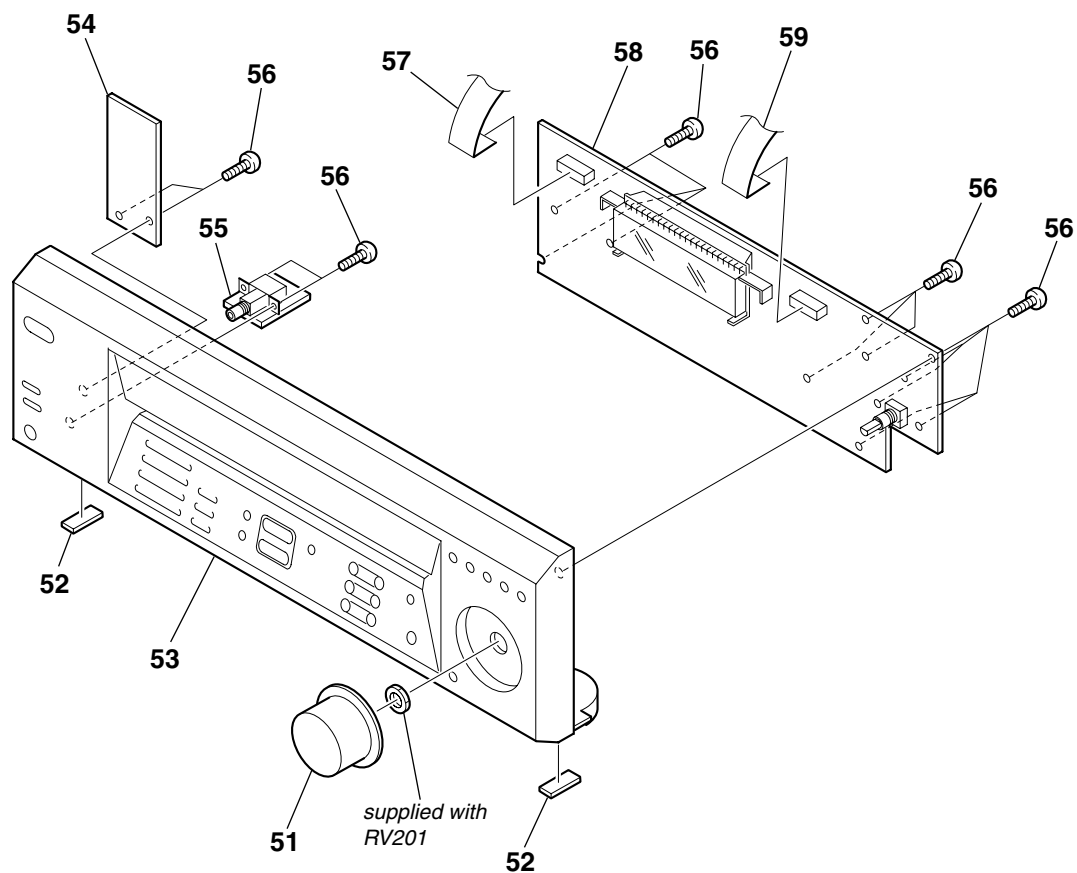
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

### 5-1. CASE SECTION



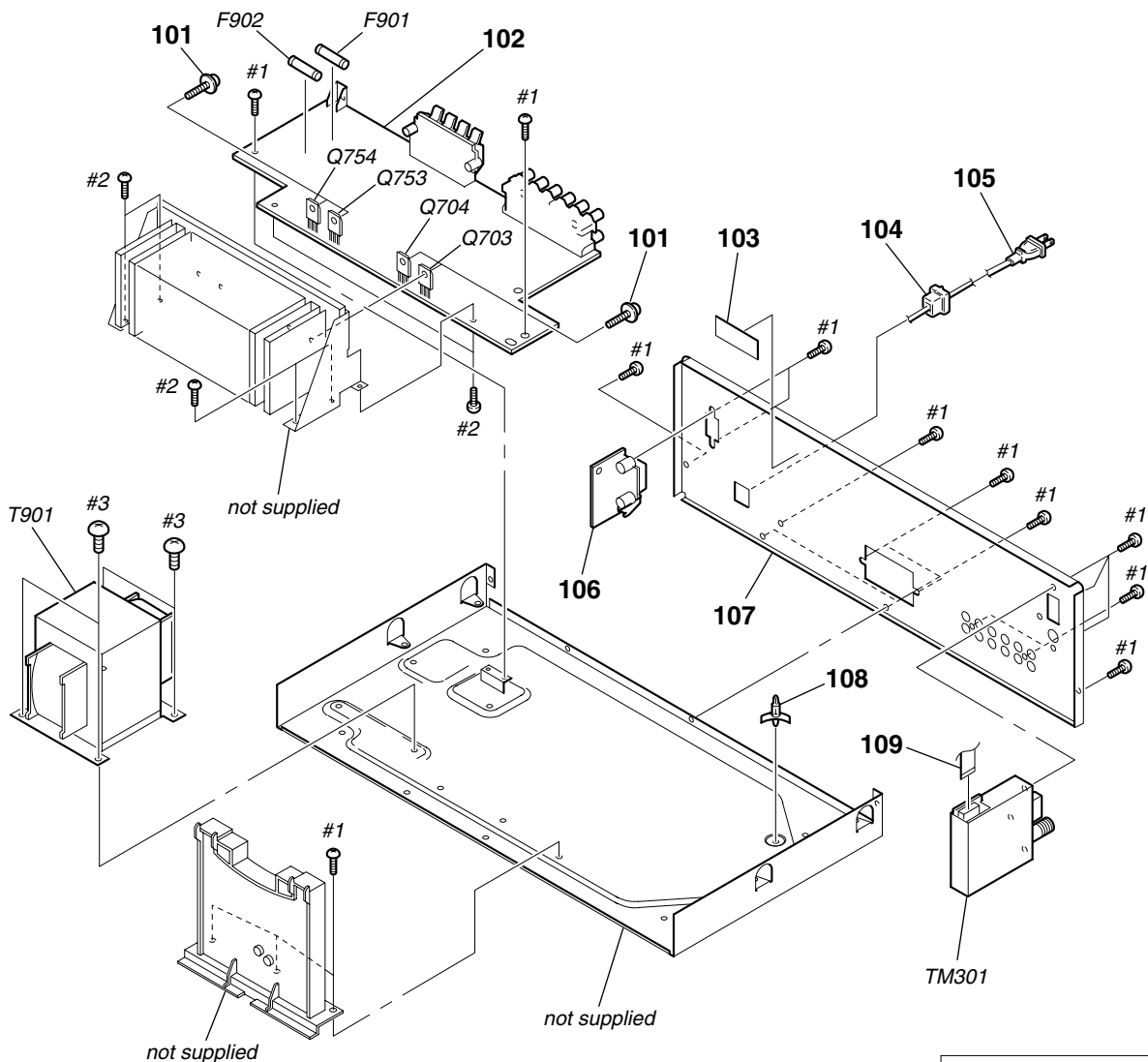
| Ref. No. | Part No.     | Description       | Remark | Ref. No. | Part No.     | Description                | Remark |
|----------|--------------|-------------------|--------|----------|--------------|----------------------------|--------|
| 1        | 4-232-118-01 | CASE              |        | 4        | 4-921-941-01 | CUSHION                    |        |
| 2        | 4-210-291-01 | SCREW (CASE3 TP2) |        | #1       | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 |        |
| 3        | 4-232-237-01 | FOOT (DIA.30)     |        |          |              |                            |        |

5-2. FRONT PANEL SECTION



| Ref. No. | Part No.     | Description                | Remark | Ref. No. | Part No.     | Description                         | Remark |
|----------|--------------|----------------------------|--------|----------|--------------|-------------------------------------|--------|
| 51       | 4-232-113-01 | KNOB (VOL)                 |        | 56       | 4-951-620-01 | SCREW (2.6X8), +BVTP                |        |
| 52       | 4-921-941-01 | CUSHION                    |        | 57       | 1-765-332-11 | WIRE (FLAT TYPE) (15 CORE)          |        |
| 53       | X-4954-453-1 | PANEL ASSY, FRONT (US)     |        | 58       | A-4727-878-A | DISPLAY BOARD, COMPLETE (US)        |        |
| 53       | X-4954-455-1 | PANEL ASSY, FRONT (AEP,UK) |        | 58       | A-4727-882-A | DISPLAY BOARD, COMPLETE (AEP,UK)    |        |
| 54       | 1-683-817-11 | POWER SW BOARD             |        | 59       | 1-773-054-11 | WIRE (FLAT TYPE) (17 CORE) (US)     |        |
| 55       | 1-683-816-11 | HP BOARD                   |        | 59       | 1-773-125-11 | WIRE (FLAT TYPE) (19 CORE) (AEP,UK) |        |

5-3. 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 |
|---------------|--------------|-------------------------------------|--------|---------------|--------------|----------------------------------|--------|
| 101           | 3-905-609-01 | SCREW (TRANSISTOR)                  |        | $\Delta$ F902 | 1-532-464-31 | FUSE (T2.5A/250V) (AEP,UK)       |        |
| 102           | A-4727-875-A | MAIN BOARD, COMPLETE (US)           |        | $\Delta$ F902 | 1-576-109-11 | FUSE (5A/125V) (US)              |        |
| 102           | A-4727-881-A | MAIN BOARD, COMPLETE (AEP,UK)       |        | Q703          | 8-749-010-25 | TRANSISTOR MN2488-OPY-M          |        |
| * 103         | 3-703-044-26 | LABEL, CAUTION (US)                 |        | Q704          | 8-749-010-26 | TRANSISTOR MP1620-OPY-M          |        |
| 104           | 3-703-244-00 | BUSHING (FBS001), CORD              |        | Q753          | 8-749-010-25 | TRANSISTOR MN2488-OPY-M          |        |
| $\Delta$ 105  | 1-769-744-11 | CORD, POWER (AEP,UK)                |        | Q754          | 8-749-010-26 | TRANSISTOR MP1620-OPY-M          |        |
| $\Delta$ 105  | 1-783-820-11 | CORD, POWER (US)                    |        | $\Delta$ T901 | 1-437-625-11 | TRANSFORMER, POWER (US)          |        |
| 106           | 1-683-818-11 | OUTLET BOARD                        |        | $\Delta$ T901 | 1-437-626-11 | TRANSFORMER, POWER (AEP,UK)      |        |
| 107           | 4-238-277-01 | PANEL (DE1), BACK (US)              |        | TM301         | 1-693-533-11 | TUNER (FM/AM) (ANTENNA) (AEP,UK) |        |
| 107           | 4-238-277-11 | PANEL (DE1), BACK (AEP)             |        | TM301         | 1-693-534-71 | TUNER (FM/AM) (ANTENNA) (US)     |        |
| 107           | 4-238-277-21 | PANEL (DE1), BACK (UK)              |        | #1            | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3       |        |
| 108           | 4-924-098-01 | HOLDER, PC BOARD                    |        | #2            | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 N-S        |        |
| 109           | 1-769-943-11 | WIRE (FLAT TYPE) (11 CORE) (US)     |        | #3            | 7-685-880-09 | SCREW +BVTT 4X6 (S)              |        |
| 109           | 1-773-007-11 | WIRE (FLAT TYPE) (15 CORE) (AEP,UK) |        |               |              |                                  |        |
| $\Delta$ F901 | 1-532-464-31 | FUSE (T2.5A/250V) (AEP,UK)          |        |               |              |                                  |        |
| $\Delta$ F901 | 1-576-109-11 | FUSE (5A/125V) (US)                 |        |               |              |                                  |        |

**DISPLAY**

**SECTION 6  
ELECTRICAL PARTS LIST**

**NOTE:**

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

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u : μ, for example:  
uA.. : μA.. uPA.. : μPA..  
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS  
uF : μF
- COILS  
uH : μH

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

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

| Ref. No.      | Part No.     | Description                      | Remark       |
|---------------|--------------|----------------------------------|--------------|
|               | A-4727-878-A | DISPLAY BOARD, COMPLETE (US)     |              |
|               | A-4727-882-A | DISPLAY BOARD, COMPLETE (AEP,UK) |              |
| *****         |              |                                  |              |
| *             | 4-921-941-01 | CUSHION (FL)                     |              |
|               | 4-943-107-11 | HOLDER (FL TUBE)                 |              |
| < CAPACITOR > |              |                                  |              |
| C202          | 1-104-905-11 | DOUBLE LAYERS 0.22F              | 5.5V         |
| C203          | 1-164-159-21 | CERAMIC 0.1uF                    | 50V          |
| C204          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C205          | 1-127-876-11 | CERAMIC 0.01uF 10%               | 50V (AEP,UK) |
| C206          | 1-127-876-21 | CERAMIC 0.01uF 10%               | 50V          |
| C207          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C208          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C209          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C210          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C211          | 1-127-876-21 | CERAMIC 0.01uF 10%               | 50V          |
| C212          | 1-127-876-21 | CERAMIC 0.01uF 10%               | 50V          |
| C213          | 1-127-876-21 | CERAMIC 0.01uF 10%               | 50V          |
| C214          | 1-164-159-21 | CERAMIC 0.1uF                    | 50V          |
| C215          | 1-126-795-11 | ELECT 10uF 20%                   | 50V          |
| C216          | 1-126-795-11 | ELECT 10uF 20%                   | 50V          |
| C217          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C218          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C219          | 1-126-794-11 | ELECT 4.7uF 20%                  | 50V          |
| C221          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C222          | 1-128-821-21 | CERAMIC 0.001uF 5%               | 50V          |
| C225          | 1-164-159-21 | CERAMIC 0.1uF                    | 50V          |
| C226          | 1-164-159-21 | CERAMIC 0.1uF                    | 50V          |
| < CONNECTOR > |              |                                  |              |
| CN1           | 1-568-440-11 | SOCKET, CONNECTOR 17P (US)       |              |
| CN1           | 1-569-323-11 | SOCKET, CONNECTOR 19P (AEP,UK)   |              |
| CN2           | 1-569-321-11 | SOCKET, CONNECTOR 15P            |              |
| CN6           | 1-779-977-11 | PIN, CONNECTOR 6P                |              |
| < DIODE >     |              |                                  |              |
| D201          | 8-719-991-33 | DIODE 1SS133T-77                 |              |
| D202          | 8-719-991-33 | DIODE 1SS133T-77                 |              |
| D203          | 8-719-046-39 | LED SEL5821A-TP15 (BASS BOOST)   |              |
| D204          | 8-719-991-33 | DIODE 1SS133T-77                 |              |

| Ref. No.                  | Part No.     | Description                 | Remark        |
|---------------------------|--------------|-----------------------------|---------------|
| < FLUORESCENT INDICATOR > |              |                             |               |
| FL201                     | 1-517-662-11 | INDICATOR TUBE, FLUORESCENT |               |
| < IC >                    |              |                             |               |
| IC201                     | 6-801-317-01 | IC uPD78044FGF-200-3B9      |               |
| IC202                     | 6-600-055-01 | IC GP1UD27SXK               |               |
| < COIL >                  |              |                             |               |
| L201                      | 1-410-509-11 | INDUCTOR 10uH               |               |
| < TRANSISTOR >            |              |                             |               |
| Q201                      | 8-729-900-63 | TRANSISTOR DTA124ES         |               |
| Q202                      | 8-729-900-36 | TRANSISTOR DTC124ES         |               |
| Q206                      | 8-729-900-36 | TRANSISTOR DTC124ES         |               |
| < RESISTOR >              |              |                             |               |
| R227                      | 1-249-381-11 | CARBON 1 5%                 | 1/4W (AEP,UK) |
| R227                      | 1-249-389-11 | CARBON 4.7 5%               | 1/4W (US)     |
| R228                      | 1-249-381-11 | CARBON 1 5%                 | 1/4W (AEP,UK) |
| R228                      | 1-249-389-11 | CARBON 4.7 5%               | 1/4W (US)     |
| R229                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R230                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R231                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R232                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R233                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R234                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R235                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R236                      | 1-247-807-31 | CARBON 100 5%               | 1/4W          |
| R237                      | 1-247-807-31 | CARBON 100 5%               | 1/4W (AEP,UK) |
| R238                      | 1-249-429-11 | CARBON 10K 5%               | 1/4W          |
| R239                      | 1-249-429-11 | CARBON 10K 5%               | 1/4W          |
| R240                      | 1-249-429-11 | CARBON 10K 5%               | 1/4W          |
| R241                      | 1-249-441-11 | CARBON 100K 5%              | 1/4W          |
| R242                      | 1-247-807-31 | CARBON 100 5%               | 1/4W (AEP,UK) |
| R243                      | 1-249-429-11 | CARBON 10K 5%               | 1/4W (US)     |
| R244                      | 1-249-429-11 | CARBON 10K 5%               | 1/4W (US)     |



| Ref. No. | Part No.     | Description |      |    | Remark | Ref. No. | Part No.     | Description                            |      |    | Remark          |
|----------|--------------|-------------|------|----|--------|----------|--------------|--|------|----|-----------------|
| R245     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R298     | 1-249-425-11 | CARBON                                 | 4.7K | 5% | 1/4W            |
| R246     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R299     | 1-247-807-31 | CARBON                                 | 100  | 5% | 1/4W            |
| R247     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R300     | 1-247-807-31 | CARBON                                 | 100  | 5% | 1/4W            |
| R248     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R301     | 1-247-807-31 | CARBON                                 | 100  | 5% | 1/4W            |
| R249     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R302     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R250     | 1-247-903-00 | CARBON      | 1M   | 5% | 1/4W   | R303     | 1-249-441-11 | CARBON                                 | 100K | 5% | 1/4W            |
| R251     | 1-249-409-11 | CARBON      | 220  | 5% | 1/4W   | R306     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R252     | 1-247-807-31 | CARBON      | 100  | 5% | 1/4W   | R307     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R253     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R308     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R254     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | R309     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R255     | 1-249-437-11 | CARBON      | 47K  | 5% | 1/4W   | R310     | 1-249-437-11 | CARBON                                 | 47K  | 5% | 1/4W            |
| R256     | 1-249-417-11 | CARBON      | 1K   | 5% | 1/4W   | R311     | 1-247-807-31 | CARBON                                 | 100  | 5% | 1/4W            |
| R257     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   |          |              |  |      |    | (AEP,UK)        |
| R258     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   |          |              | < ROTARY ENCODER >                     |      |    |                 |
| R259     | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/4W   | RV201    | 1-418-725-41 | ENCODER, ROTARY (12 TYPE)              |      |    | (MASTER VOLUME) |
| R260     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   |          |              | < SWITCH >                             |      |    |                 |
| R261     | 1-249-433-11 | CARBON      | 22K  | 5% | 1/4W   | S204     | 1-771-410-21 | SWITCH, TACTILE (3)                    |      |    |                 |
| R262     | 1-249-437-11 | CARBON      | 47K  | 5% | 1/4W   | S205     | 1-771-410-21 | SWITCH, TACTILE (6)                    |      |    |                 |
| R263     | 1-249-417-11 | CARBON      | 1K   | 5% | 1/4W   | S206     | 1-771-410-21 | SWITCH, TACTILE (9)                    |      |    |                 |
| R264     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S207     | 1-771-410-21 | SWITCH, TACTILE (DIRECT)               |      |    |                 |
| R265     | 1-249-417-11 | CARBON      | 1K   | 5% | 1/4W   | S208     | 1-771-410-21 | SWITCH, TACTILE (0)                    |      |    |                 |
| R266     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S209     | 1-771-410-21 | SWITCH, TACTILE (8)                    |      |    |                 |
| R267     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S210     | 1-771-410-21 | SWITCH, TACTILE (5)                    |      |    |                 |
| R268     | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/4W   | S211     | 1-771-410-21 | SWITCH, TACTILE (2)                    |      |    |                 |
| R269     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S212     | 1-771-410-21 | SWITCH, TACTILE (7)                    |      |    |                 |
| R270     | 1-249-433-11 | CARBON      | 22K  | 5% | 1/4W   | S213     | 1-771-410-21 | SWITCH, TACTILE (SHIFT)                |      |    |                 |
| R271     | 1-249-437-11 | CARBON      | 47K  | 5% | 1/4W   | S214     | 1-771-410-21 | SWITCH, TACTILE (SLEEP) (US)           |      |    |                 |
| R272     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S214     | 1-771-410-21 | SWITCH, TACTILE (PTY) (AEP,UK)         |      |    |                 |
| R273     | 1-247-807-31 | CARBON      | 100  | 5% | 1/4W   | S215     | 1-771-410-21 | SWITCH, TACTILE (NAME)                 |      |    |                 |
| R274     | 1-249-417-11 | CARBON      | 1K   | 5% | 1/4W   | S216     | 1-771-410-21 | SWITCH, TACTILE (FM)                   |      |    |                 |
| R275     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S217     | 1-771-410-21 | SWITCH, TACTILE (FM MODE)              |      |    |                 |
| R276     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S218     | 1-771-410-21 | SWITCH, TACTILE (PRESET TUNING -) (US) |      |    |                 |
| R277     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S218     | 1-771-410-21 | SWITCH, TACTILE (PRESET/PTY SELECT -)  |      |    | (AEP,UK)        |
| R278     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S219     | 1-771-410-21 | SWITCH, TACTILE (TUNING/CHAR -)        |      |    |                 |
| R279     | 1-249-433-11 | CARBON      | 22K  | 5% | 1/4W   | S220     | 1-771-410-21 | SWITCH, TACTILE (TUNING/CHAR +)        |      |    |                 |
| R280     | 1-249-437-11 | CARBON      | 47K  | 5% | 1/4W   | S221     | 1-771-410-21 | SWITCH, TACTILE (MEMORY/ENTER)         |      |    |                 |
| R281     | 1-249-417-11 | CARBON      | 1K   | 5% | 1/4W   | S222     | 1-771-410-21 | SWITCH, TACTILE (1)                    |      |    |                 |
| R282     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S223     | 1-771-410-21 | SWITCH, TACTILE (4)                    |      |    |                 |
| R283     | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/4W   | S224     | 1-771-410-21 | SWITCH, TACTILE (BALANCE R)            |      |    |                 |
| R284     | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/4W   | S225     | 1-771-410-21 | SWITCH, TACTILE (TREBLE +)             |      |    |                 |
| R285     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S226     | 1-771-410-21 | SWITCH, TACTILE (BASS +)               |      |    |                 |
| R286     | 1-249-433-11 | CARBON      | 22K  | 5% | 1/4W   | S227     | 1-771-410-21 | SWITCH, TACTILE (BALANCE L)            |      |    |                 |
| R287     | 1-249-437-11 | CARBON      | 47K  | 5% | 1/4W   | S228     | 1-771-410-21 | SWITCH, TACTILE (TREBLE -)             |      |    |                 |
| R288     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S229     | 1-771-410-21 | SWITCH, TACTILE (BASS -)               |      |    |                 |
| R289     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S230     | 1-771-410-21 | SWITCH, TACTILE (AM)                   |      |    |                 |
| R290     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S231     | 1-771-410-21 | SWITCH, TACTILE (PRESET TUNING +) (US) |      |    |                 |
| R291     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S231     | 1-771-410-21 | SWITCH, TACTILE (PRESET/PTY SELECT +)  |      |    | (AEP,UK)        |
| R292     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   | S232     | 1-771-410-21 | SWITCH, TACTILE (TUNER)                |      |    |                 |
| R293     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   |          |              |  |      |    |                 |
| R294     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   |          |              |  |      |    |                 |
| R295     | 1-249-429-11 | CARBON      | 10K  | 5% | 1/4W   |          |              |  |      |    |                 |
| R296     | 1-247-807-31 | CARBON      | 100  | 5% | 1/4W   |          |              |  |      |    |                 |

# STR-DE185

**DISPLAY**   **HP**   **MAIN**

| Ref. No. | Part No.     | Description                   | Remark | Ref. No. | Part No.     | Description           | Remark |
|----------|--------------|-------------------------------|--------|----------|--------------|-----------------------|--------|
| S233     | 1-771-410-21 | SWITCH, TACTILE (CD)          |        | C462     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| S234     | 1-771-410-21 | SWITCH, TACTILE (MD/TAPE)     |        | C463     | 1-126-794-11 | ELECT 4.7uF 20% 50V   |        |
| S235     | 1-771-410-21 | SWITCH, TACTILE (VIDEO 2)     |        | C464     | 1-136-167-00 | FILM 0.15uF 5% 50V    |        |
| S236     | 1-771-410-21 | SWITCH, TACTILE (VIDEO 1)     |        | C465     | 1-136-167-00 | FILM 0.15uF 5% 50V    |        |
| S237     | 1-771-410-21 | SWITCH, TACTILE (MUTING)      |        | C466     | 1-136-169-00 | FILM 0.22uF 5% 50V    |        |
| S238     | 1-771-410-21 | SWITCH, TACTILE (BASS BOOST)  |        | C467     | 1-136-169-00 | FILM 0.22uF 5% 50V    |        |
| S239     | 1-771-410-21 | SWITCH, TACTILE (DISPLAY)     |        | C468     | 1-137-368-11 | MYLAR 0.0047uF 5% 50V |        |
|          |              | < VIBRATOR >                  |        | C469     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| X201     | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz)   |        | C470     | 1-126-794-11 | ELECT 4.7uF 20% 50V   |        |
| *****    |              |                               |        |          |              |                       |        |
|          | 1-683-816-11 | HP BOARD                      |        | C471     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
|          |              | *****                         |        | C472     | 1-126-965-11 | ELECT 22uF 20% 50V    |        |
|          |              | < CONNECTOR >                 |        | C474     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| CNP801   | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P     |        | C475     | 1-126-965-11 | ELECT 22uF 20% 50V    |        |
|          |              | < JACK >                      |        | C476     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| J803     | 1-750-733-11 | JACK (LARGE TYPE) (PHONES)    |        | C483     | 1-126-965-11 | ELECT 22uF 20% 50V    |        |
| *****    |              |                               |        |          |              |                       |        |
|          | A-4727-875-A | MAIN BOARD, COMPLETE (US)     |        | C484     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
|          | A-4727-881-A | MAIN BOARD, COMPLETE (AEP,UK) |        | C485     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
|          |              | *****                         |        | C490     | 1-126-935-11 | ELECT 470uF 20% 10V   |        |
|          | 1-533-223-11 | HOLDER, FUSE                  |        | C602     | 1-128-809-11 | CERAMIC 100PF 5% 50V  |        |
|          | 7-685-646-79 | SCREW +BVTTP 3X8 TYPE2 IT-3   |        | C603     | 1-102-233-00 | CERAMIC 33PF 10% 500V |        |
|          |              | < CAPACITOR >                 |        | C604     | 1-128-809-11 | CERAMIC 100PF 5% 50V  |        |
| C402     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C606     | 1-126-933-11 | ELECT 100uF 20% 16V   |        |
| C404     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C607     | 1-126-794-11 | ELECT 4.7uF 20% 50V   |        |
| C406     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C652     | 1-128-809-11 | CERAMIC 100PF 5% 50V  |        |
| C408     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C653     | 1-102-233-00 | CERAMIC 33PF 10% 500V |        |
| C410     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C654     | 1-128-809-11 | CERAMIC 100PF 5% 50V  |        |
| C412     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C656     | 1-126-933-11 | ELECT 100uF 20% 16V   |        |
| C413     | 1-126-794-11 | ELECT 4.7uF 20% 50V           |        | C657     | 1-126-794-11 | ELECT 4.7uF 20% 50V   |        |
| C414     | 1-136-167-00 | FILM 0.15uF 5% 50V            |        | C682     | 1-128-582-11 | ELECT 10uF 20% 100V   |        |
| C415     | 1-136-167-00 | FILM 0.15uF 5% 50V            |        | C701     | 1-126-947-11 | ELECT 47uF 20% 16V    |        |
| C416     | 1-136-169-00 | FILM 0.22uF 5% 50V            |        | C702     | 1-107-597-11 | CERAMIC 22PF 10% 500V |        |
| C417     | 1-136-169-00 | FILM 0.22uF 5% 50V            |        | C703     | 1-107-597-11 | CERAMIC 22PF 10% 500V |        |
| C418     | 1-137-368-11 | MYLAR 0.0047uF 5% 50V         |        | C704     | 1-128-813-11 | CERAMIC 220PF 5% 50V  |        |
| C419     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C705     | 1-137-372-11 | MYLAR 0.022uF 5% 50V  |        |
| C420     | 1-126-794-11 | ELECT 4.7uF 20% 50V           |        | C751     | 1-126-947-11 | ELECT 47uF 20% 16V    |        |
| C421     | 1-164-159-21 | CERAMIC 0.1uF 50V             |        | C752     | 1-107-597-11 | CERAMIC 22PF 10% 500V |        |
| C422     | 1-126-965-11 | ELECT 22uF 20% 50V            |        | C753     | 1-107-597-11 | CERAMIC 22PF 10% 500V |        |
| C424     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C754     | 1-128-813-11 | CERAMIC 220PF 5% 50V  |        |
| C425     | 1-126-965-11 | ELECT 22uF 20% 50V            |        | C755     | 1-137-372-11 | MYLAR 0.022uF 5% 50V  |        |
| C426     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C781     | 1-126-934-11 | ELECT 220uF 20% 10V   |        |
| C428     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C782     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| C429     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C791     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C430     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C901     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C431     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C902     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C432     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C903     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C433     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C904     | 1-126-960-11 | ELECT 1uF 20% 50V     |        |
| C434     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C905     | 1-126-936-11 | ELECT 3300uF 20% 16V  |        |
| C435     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C906     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C436     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C907     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C437     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C908     | 1-126-964-11 | ELECT 10uF 20% 50V    |        |
| C438     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C909     | 1-126-957-11 | ELECT 0.22uF 20% 50V  |        |
| C439     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C910     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |
| C440     | 1-126-964-11 | ELECT 10uF 20% 50V            |        | C911     | 1-164-159-21 | CERAMIC 0.1uF 50V     |        |

| Ref. No. | Part No.     | Description   |        | Remark | Ref. No.        | Part No. | Description   | Remark                         |
|----------|--------------|---------------|--------|--------|-----------------|----------|---------------|--------------------------------|
| C912     | 1-135-851-21 | MYLAR         | 0.22uF | 100V   |                 |          | < CONNECTOR > |                                |
| C913     | 1-135-851-21 | MYLAR         | 0.22uF | 100V   |                 |          |               |                                |
| C914     | 1-165-946-11 | DOUBLE LAYERS | 6800uF | 20%    | 71V             | CN3      | 1-569-060-11  | SOCKET, CONNECTOR 11P (US)     |
| C915     | 1-165-946-11 | DOUBLE LAYERS | 6800uF | 20%    | 71V             | CN3      | 1-569-321-11  | SOCKET, CONNECTOR 15P (AEP,UK) |
| C916     | 1-164-159-21 | CERAMIC       | 0.1uF  |        | 50V             | CN4      | 1-568-440-11  | SOCKET, CONNECTOR 17P (US)     |
|          |              |               |        |        |                 | CN4      | 1-569-323-11  | SOCKET, CONNECTOR 19P (AEP,UK) |
| C917     | 1-164-159-21 | CERAMIC       | 0.1uF  |        | 50V             | CN5      | 1-569-321-11  | SOCKET, CONNECTOR 15P          |
| C918     | 1-126-942-61 | ELECT         | 1000uF | 20%    | 25V             |          |               |                                |
| C919     | 1-126-947-11 | ELECT         | 47uF   | 20%    | 35V             | CNP901   | 1-564-321-00  | PIN, CONNECTOR 2P              |
| C920     | 1-126-947-11 | ELECT         | 47uF   | 20%    | 35V             | * CNP903 | 1-564-242-00  | PIN, CONNECTOR 5P              |
| C921     | 1-126-947-11 | ELECT         | 47uF   | 20%    | 35V             | CNP904   | 1-691-767-11  | PLUG (MICRO CONNECTOR) 5P      |
|          |              |               |        |        |                 | * CNP905 | 1-565-792-11  | PIN, CONNECTOR 2P              |
| C922     | 1-164-159-21 | CERAMIC       | 0.1uF  |        | 50V             |          |               | < DIODE >                      |
| C923     | 1-126-947-11 | ELECT         | 47uF   | 20%    | 16V             |          |               |                                |
| C924     | 1-164-159-21 | CERAMIC       | 0.1uF  |        | 50V             |          |               |                                |
| C925     | 1-126-933-11 | ELECT         | 100uF  | 20%    | 16V             | D701     | 8-719-991-33  | DIODE 1SS133T-77               |
| C926     | 1-164-159-11 | CERAMIC       | 0.1uF  |        | 50V<br>(AEP,UK) | D751     | 8-719-991-33  | DIODE 1SS133T-77               |
|          |              |               |        |        |                 | D781     | 8-719-991-33  | DIODE 1SS133T-77               |
| C927     | 1-126-947-11 | ELECT         | 47uF   | 20%    | 16V<br>(AEP,UK) | D782     | 8-719-991-33  | DIODE 1SS133T-77               |
|          |              |               |        |        |                 | D783     | 8-719-991-33  | DIODE 1SS133T-77               |
| C928     | 1-126-967-11 | ELECT         | 47uF   | 20%    | 50V             | D784     | 8-719-991-33  | DIODE 1SS133T-77               |
| C929     | 1-128-582-11 | ELECT         | 10uF   | 20%    | 100V            | D785     | 8-719-991-33  | DIODE 1SS133T-77               |
| C930     | 1-128-582-11 | ELECT         | 10uF   | 20%    | 100V            | D786     | 8-719-991-33  | DIODE 1SS133T-77               |
| C931     | 1-164-159-21 | CERAMIC       | 0.1uF  |        | 50V             | D787     | 8-719-991-33  | DIODE 1SS133T-77               |
|          |              |               |        |        |                 | D788     | 8-719-991-33  | DIODE 1SS133T-77               |
| CC401    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D789     | 8-719-991-33  | DIODE 1SS133T-77               |
| CC403    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D901     | 8-719-200-82  | DIODE 11ES2                    |
| CC405    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D902     | 8-719-200-82  | DIODE 11ES2                    |
| CC407    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D903     | 8-719-200-82  | DIODE 11ES2                    |
| CC409    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D904     | 8-719-200-82  | DIODE 11ES2                    |
| CC411    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D905     | 8-719-991-33  | DIODE 1SS133T-77               |
| CC451    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D906     | 8-719-991-33  | DIODE 1SS133T-77               |
| CC453    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D907     | 8-719-072-05  | DIODE RBV-602LF-A              |
| CC455    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D908     | 8-719-200-82  | DIODE 11ES2                    |
| CC457    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D909     | 8-719-200-82  | DIODE 11ES2                    |
| CC459    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D910     | 8-719-200-82  | DIODE 11ES2                    |
| CC461    | 1-128-809-11 | CERAMIC       | 100PF  | 5%     | 50V<br>(AEP,UK) | D911     | 8-719-200-82  | DIODE 11ES2                    |
| CC701    | 1-127-876-11 | CERAMIC       | 0.01uF | 10%    | 50V<br>(AEP,UK) | D912     | 8-719-936-34  | DIODE HZS24LTD                 |
| CC703    | 1-127-876-11 | CERAMIC       | 0.01uF | 10%    | 50V<br>(AEP,UK) | D913     | 8-719-109-89  | DIODE RD5.6ES-B2               |
| CC751    | 1-127-876-11 | CERAMIC       | 0.01uF | 10%    | 50V<br>(AEP,UK) | D914     | 8-719-200-82  | DIODE 11ES2                    |
| CC753    | 1-127-876-11 | CERAMIC       | 0.01uF | 10%    | 50V<br>(AEP,UK) | D981     | 8-719-991-33  | DIODE 1SS133T-77               |
|          |              |               |        |        |                 | D982     | 8-719-991-33  | DIODE 1SS133T-77               |
|          |              |               |        |        |                 |          |               | < EARTH TERMINAL >             |
|          |              |               |        |        |                 | * EP901  | 1-537-738-21  | TERMINAL, EARTH                |
|          |              |               |        |        |                 |          |               | < IC >                         |
|          |              |               |        |        |                 | IC401    | 6-700-261-01  | IC BD3861FS                    |
|          |              |               |        |        |                 | IC402    | 8-759-534-63  | IC TC9299P                     |
|          |              |               |        |        |                 | IC403    | 8-759-636-74  | IC M5218AP-22                  |
|          |              |               |        |        |                 | IC404    | 8-759-932-33  | IC BU4066BC                    |
|          |              |               |        |        |                 | IC601    | 6-700-943-01  | IC uPC2581V-S                  |
|          |              |               |        |        |                 | IC901    | 8-759-333-83  | IC NJM2103D                    |
|          |              |               |        |        |                 | IC902    | 8-759-701-75  | IC NJM7805FA                   |
|          |              |               |        |        |                 | IC903    | 8-759-656-35  | IC NJM7810FA                   |

## MAIN

| Ref. No. | Part No.     | Description                    | Remark | Ref. No. | Part No.     | Description    | Remark |
|----------|--------------|--------------------------------|--------|----------|--------------|----------------|--------|
| IC904    | 8-759-701-75 | IC NJM7805FA (AEP,UK)          |        | R418     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
|          |              | < JACK >                       |        | R421     | 1-249-437-11 | CARBON 47K 5%  | 1/4W   |
| J801     | 1-774-411-11 | JACK, PIN 6P (CD,MD/TAPE)      |        | R422     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
| J802     | 1-793-776-12 | JACK, PIN 6P (VIDEO 2,VIDEO 1) |        | R423     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
|          |              | < COIL >                       |        | R424     | 1-249-429-11 | CARBON 10K 5%  | 1/4W   |
| L701     | 1-422-009-13 | COIL, AIR-CORE                 |        | R425     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| L751     | 1-422-009-13 | COIL, AIR-CORE                 |        | R426     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
|          |              | < TRANSISTOR >                 |        | R427     | 1-249-441-11 | CARBON 100K 5% | 1/4W   |
| Q424     | 8-729-900-36 | TRANSISTOR DTC124ES            |        | R428     | 1-249-441-11 | CARBON 100K 5% | 1/4W   |
| Q474     | 8-729-900-36 | TRANSISTOR DTC124ES            |        | R451     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q680     | 8-729-900-63 | TRANSISTOR DTA124ES            |        | R452     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q681     | 8-729-900-36 | TRANSISTOR DTC124ES            |        | R453     | 1-249-421-11 | CARBON 2.2K 5% | 1/4W   |
| Q701     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R454     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q702     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK         |        | R455     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q705     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA       |        | R456     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q706     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA       |        | R457     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q751     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R458     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q752     | 8-729-141-30 | TRANSISTOR 2SC3623A-LK         |        | R459     | 1-249-421-11 | CARBON 2.2K 5% | 1/4W   |
| Q755     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA       |        | R460     | 1-249-421-11 | CARBON 2.2K 5% | 1/4W   |
| Q756     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA       |        | R461     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q781     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R462     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| Q782     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R463     | 1-247-843-11 | CARBON 3.3K 5% | 1/4W   |
| Q783     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R464     | 1-247-843-11 | CARBON 3.3K 5% | 1/4W   |
| Q784     | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA       |        | R465     | 1-249-417-11 | CARBON 1K 5%   | 1/4W   |
| Q785     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R466     | 1-249-437-11 | CARBON 47K 5%  | 1/4W   |
| Q786     | 8-729-140-84 | TRANSISTOR 2SC1841-PAFAEA      |        | R467     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
| Q901     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R468     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
| Q902     | 8-729-045-21 | TRANSISTOR 2SD1513TP-LK        |        | R471     | 1-249-437-11 | CARBON 47K 5%  | 1/4W   |
| Q903     | 8-729-119-79 | TRANSISTOR 2SC2785-FEK         |        | R472     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
| Q904     | 8-729-140-97 | TRANSISTOR 2SB734-34           |        | R473     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
|          |              | < RESISTOR >                   |        | R474     | 1-249-429-11 | CARBON 10K 5%  | 1/4W   |
| R401     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R475     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| R402     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R476     | 1-249-425-11 | CARBON 4.7K 5% | 1/4W   |
| R403     | 1-249-421-11 | CARBON 2.2K 5%                 | 1/4W   | R477     | 1-249-441-11 | CARBON 100K 5% | 1/4W   |
| R404     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R478     | 1-249-441-11 | CARBON 100K 5% | 1/4W   |
| R405     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R481     | 1-247-807-31 | CARBON 100 5%  | 1/4W   |
| R406     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R482     | 1-247-807-31 | CARBON 100 5%  | 1/4W   |
| R407     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R483     | 1-247-807-31 | CARBON 100 5%  | 1/4W   |
| R408     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R484     | 1-247-807-31 | CARBON 100 5%  | 1/4W   |
| R409     | 1-249-421-11 | CARBON 2.2K 5%                 | 1/4W   | R485     | 1-247-807-31 | CARBON 100 5%  | 1/4W   |
| R410     | 1-249-421-11 | CARBON 2.2K 5%                 | 1/4W   | R602     | 1-249-439-11 | CARBON 68K 5%  | 1/4W   |
| R411     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R603     | 1-249-439-11 | CARBON 68K 5%  | 1/4W   |
| R412     | 1-249-425-11 | CARBON 4.7K 5%                 | 1/4W   | R604     | 1-249-411-11 | CARBON 330 5%  | 1/4W   |
| R413     | 1-247-843-11 | CARBON 3.3K 5%                 | 1/4W   | R605     | 1-249-417-11 | CARBON 1K 5%   | 1/4W   |
| R414     | 1-247-843-11 | CARBON 3.3K 5%                 | 1/4W   | R652     | 1-249-439-11 | CARBON 68K 5%  | 1/4W   |
| R415     | 1-249-417-11 | CARBON 1K 5%                   | 1/4W   | R653     | 1-249-439-11 | CARBON 68K 5%  | 1/4W   |
| R416     | 1-249-437-11 | CARBON 47K 5%                  | 1/4W   | R654     | 1-249-411-11 | CARBON 330 5%  | 1/4W   |
| R417     | 1-249-433-11 | CARBON 22K 5%                  | 1/4W   | R655     | 1-249-417-11 | CARBON 1K 5%   | 1/4W   |
|          |              |                                |        | R681     | 1-249-437-11 | CARBON 47K 5%  | 1/4W   |
|          |              |                                |        | R697     | 1-249-433-11 | CARBON 22K 5%  | 1/4W   |
|          |              |                                |        | R701     | 1-249-421-11 | CARBON 2.2K 5% | 1/4W   |
|          |              |                                |        | R702     | 1-249-440-11 | CARBON 82K 5%  | 1/4W   |
|          |              |                                |        | R703     | 1-249-414-11 | CARBON 560 5%  | 1/4W   |

|      |        |
|------|--------|
| MAIN | OUTLET |
|------|--------|

| Ref. No. | Part No.     | Description                    | Remark          | Ref. No. | Part No.     | Description                          | Remark                    |
|----------|--------------|--------------------------------|-----------------|----------|--------------|--------------------------------------|---------------------------|
| R704     | 1-249-408-11 | CARBON                         | 180 5% 1/4W     | R914     | 1-249-425-11 | CARBON                               | 4.7K 5% 1/4W              |
| R705     | 1-249-408-11 | CARBON                         | 180 5% 1/4W     | △ R915   | 1-240-877-11 | FUSIBLE                              | 0.15 5% 1/2W F            |
| R706     | 1-233-352-41 | COMPONENT, ENCAPSULATED 0.22X2 |                 | R916     | 1-249-389-11 | CARBON                               | 4.7 5% 1/4W               |
| R707     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    | R917     | 1-249-429-11 | CARBON                               | 10K 5% 1/4W               |
| R708     | 1-240-855-11 | CARBON                         | 6.2K 5% 1/4W    | R919     | 1-249-439-11 | CARBON                               | 68K 5% 1/4W               |
| R709     | 1-249-419-11 | CARBON                         | 1.5K 5% 1/4W    | R920     | 1-249-439-11 | CARBON                               | 68K 5% 1/4W               |
| R710     | 1-247-881-00 | CARBON                         | 120K 5% 1/4W    | R921     | 1-247-807-31 | CARBON                               | 100 5% 1/4W               |
| R711     | 1-249-431-11 | CARBON                         | 15K 5% 1/4W     |          |              |                                      | (AEP,UK)                  |
| R712     | 1-249-393-11 | CARBON                         | 10 5% 1/4W      | R922     | 1-247-807-31 | CARBON                               | 100 5% 1/4W               |
| R713     | 1-249-437-11 | CARBON                         | 47K 5% 1/4W     |          |              |                                      | (AEP,UK)                  |
| R714     | 1-249-389-11 | CARBON                         | 4.7 5% 1/4W     | R923     | 1-249-429-11 | CARBON                               | 10K 5% 1/4W               |
| R751     | 1-249-421-11 | CARBON                         | 2.2K 5% 1/4W    | R924     | 1-247-807-31 | CARBON                               | 100 5% 1/4W               |
| R752     | 1-249-440-11 | CARBON                         | 82K 5% 1/4W     | R925     | 1-247-807-31 | CARBON                               | 100 5% 1/4W               |
| R753     | 1-249-414-11 | CARBON                         | 560 5% 1/4W     | R926     | 1-247-791-11 | CARBON                               | 22 5% 1/4W                |
| R754     | 1-249-408-11 | CARBON                         | 180 5% 1/4W     | R929     | 1-249-381-11 | CARBON                               | 1 5% 1/4W                 |
| R755     | 1-249-408-11 | CARBON                         | 180 5% 1/4W     | R930     | 1-249-381-11 | CARBON                               | 1 5% 1/4W                 |
| R756     | 1-233-352-41 | COMPONENT, ENCAPSULATED 0.22X2 |                 | RR701    | 1-249-393-11 | CARBON                               | 10 5% 1/4W                |
| R757     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    |          |              |                                      | (AEP,UK)                  |
| R758     | 1-240-855-11 | CARBON                         | 6.2K 5% 1/4W    | RR702    | 1-249-393-11 | CARBON                               | 10 5% 1/4W                |
| R759     | 1-249-419-11 | CARBON                         | 1.5K 5% 1/4W    |          |              |                                      | (AEP,UK)                  |
| R760     | 1-247-881-00 | CARBON                         | 120K 5% 1/4W    | RR751    | 1-249-393-11 | CARBON                               | 10 5% 1/4W                |
| R761     | 1-249-431-11 | CARBON                         | 15K 5% 1/4W     |          |              |                                      | (AEP,UK)                  |
| R762     | 1-249-393-11 | CARBON                         | 10 5% 1/4W      | RR752    | 1-249-393-11 | CARBON                               | 10 5% 1/4W                |
| R763     | 1-249-437-11 | CARBON                         | 47K 5% 1/4W     |          |              |                                      | (AEP,UK)                  |
| R764     | 1-249-389-11 | CARBON                         | 4.7 5% 1/4W     |          |              |                                      | < RELAY >                 |
| R781     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    | RY781    | 1-755-421-11 | RELAY (12V)                          |                           |
| R782     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    | RY782    | 1-755-421-11 | RELAY (12V)                          |                           |
| R783     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    | RY783    | 1-755-421-11 | RELAY (12V)                          |                           |
| R784     | 1-249-401-11 | CARBON                         | 47 5% 1/4W      | RY981    | 1-755-013-11 | RELAY (12V)                          |                           |
| R785     | 1-249-401-11 | CARBON                         | 47 5% 1/4W      | △ RY982  | 1-755-334-11 | RELAY, AC POWER (9V)                 |                           |
| R786     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    |          |              |                                      | < TRANSFORMER >           |
| R787     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    | △ T902   | 1-435-435-11 | TRANSFORMER, POWER (AEP,UK)          |                           |
| R788     | 1-249-427-11 | CARBON                         | 6.8K 5% 1/4W    | △ T902   | 1-435-436-11 | TRANSFORMER, POWER (US)              |                           |
| R789     | 1-249-437-11 | CARBON                         | 47K 5% 1/4W     |          |              |                                      | < TERMINAL BOARD >        |
| R790     | 1-249-417-11 | CARBON                         | 1K 5% 1/4W      | TM801    | 1-537-376-11 | TERMINAL BOARD (SPEAKERS)            |                           |
| △ R792   | 1-215-868-00 | METAL OXIDE                    | 680 5% 1W F     |          |              |                                      | *****                     |
| △ R793   | 1-215-868-00 | METAL OXIDE                    | 680 5% 1W F     |          |              |                                      | 1-683-818-11 OUTLET BOARD |
| R794     | 1-249-429-11 | CARBON                         | 10K 5% 1/4W     |          |              |                                      | *****                     |
| R795     | 1-249-401-11 | CARBON                         | 47 5% 1/4W      |          |              |                                      | < AC OUTLET >             |
| R901     | 1-249-425-11 | CARBON                         | 4.7K 5% 1/4W    |          |              |                                      | (US)                      |
| R902     | 1-249-381-11 | CARBON                         | 1 5% 1/4W       | △ CNJ901 | 1-785-285-11 | OUTLET, AC (1P) (AC OUTLET) (AEP,UK) |                           |
| △ R903   | 1-219-237-11 | SOLID                          | 3.3M 20% 1/2W F | △ CNJ901 | 1-785-834-11 | OUTLET, AC (1P) (AC OUTLET) (US)     |                           |
| R904     | 1-249-435-11 | CARBON                         | 33K 5% 1/4W     |          |              |                                      | < CONNECTOR >             |
| R905     | 1-249-433-11 | CARBON                         | 22K 5% 1/4W     | CNP907   | 1-564-321-00 | PIN, CONNECTOR 2P                    |                           |
| R906     | 1-249-421-11 | CARBON                         | 2.2K 5% 1/4W    |          |              |                                      | *****                     |
| R907     | 1-249-428-11 | CARBON                         | 8.2K 5% 1/4W    |          |              |                                      |                           |
| R908     | 1-249-422-11 | CARBON                         | 2.7K 5% 1/4W    |          |              |                                      |                           |
| R909     | 1-249-431-11 | CARBON                         | 15K 5% 1/4W     |          |              |                                      |                           |
| R910     | 1-249-429-11 | CARBON                         | 10K 5% 1/4W     |          |              |                                      |                           |
| R911     | 1-247-843-11 | CARBON                         | 3.3K 5% 1/4W    |          |              |                                      |                           |
| R912     | 1-249-417-11 | CARBON                         | 1K 5% 1/4W      |          |              |                                      |                           |
| R913     | 1-249-401-11 | CARBON                         | 47 5% 1/4W      |          |              |                                      |                           |

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

**POWER SW**

| Ref. No. | Part No.     | Description                         | Remark |
|----------|--------------|-------------------------------------|--------|
|          | 1-683-817-11 | POWER SW BOARD<br>*****             |        |
|          |              | < DIODE >                           |        |
| D205     | 8-719-046-39 | LED SEL5821A-TP15 (SPEAKERS A)      |        |
| D206     | 8-719-046-39 | LED SEL5821A-TP15 (SPEAKERS B)      |        |
|          |              | < TRANSISTOR >                      |        |
| Q204     | 8-729-900-36 | TRANSISTOR DTC124ES                 |        |
| Q205     | 8-729-900-36 | TRANSISTOR DTC124ES                 |        |
|          |              | < RESISTOR >                        |        |
| R289     | 1-249-409-11 | CARBON 220 5% 1/4W                  |        |
| R290     | 1-249-409-11 | CARBON 220 5% 1/4W                  |        |
| R297     | 1-249-417-11 | CARBON 1K 5% 1/4W                   |        |
|          |              | < SWITCH >                          |        |
| S201     | 1-771-410-21 | SWITCH, TACTILE (I/⏻)               |        |
| S202     | 1-771-410-21 | SWITCH, TACTILE (SPEAKERS A)        |        |
| S203     | 1-771-410-21 | SWITCH, TACTILE (SPEAKERS B)        |        |
| *****    |              |                                     |        |
|          |              | MISCELLANEOUS<br>*****              |        |
| 57       | 1-765-332-11 | WIRE (FLAT TYPE) (15 CORE)          |        |
| 59       | 1-773-054-11 | WIRE (FLAT TYPE) (17 CORE) (US)     |        |
| 59       | 1-773-125-11 | WIRE (FLAT TYPE) (19 CORE) (AEP,UK) |        |
| △ 105    | 1-769-744-11 | CORD, POWER (AEP,UK)                |        |
| △ 105    | 1-783-820-11 | CORD, POWER (US)                    |        |
| 109      | 1-769-943-11 | WIRE (FLAT TYPE) (11 CORE) (US)     |        |
| 109      | 1-773-007-11 | WIRE (FLAT TYPE) (15 CORE) (AEP,UK) |        |
| △ F901   | 1-532-464-31 | FUSE (T2.5A/250V) (AEP,UK)          |        |
| △ F901   | 1-576-109-11 | FUSE (5A/125V) (US)                 |        |
| △ F902   | 1-532-464-31 | FUSE (T2.5A/250V) (AEP,UK)          |        |
| △ F902   | 1-576-109-11 | FUSE (5A/125V) (US)                 |        |
| Q703     | 8-749-010-25 | TRANSISTOR MN2488-OPY-M             |        |
| Q704     | 8-749-010-26 | TRANSISTOR MP1620-OPY-M             |        |
| Q753     | 8-749-010-25 | TRANSISTOR MN2488-OPY-M             |        |
| Q754     | 8-749-010-26 | TRANSISTOR MP1620-OPY-M             |        |
| △ T901   | 1-437-625-11 | TRANSFORMER, POWER (US)             |        |
| △ T901   | 1-437-626-11 | TRANSFORMER, POWER (AEP,UK)         |        |
| TM301    | 1-693-533-11 | TUNER (FM/AM) (ANTENNA) (AEP,UK)    |        |
| TM301    | 1-693-534-71 | TUNER (FM/AM) (ANTENNA) (US)        |        |
| *****    |              |                                     |        |

| Ref. No. | Part No.     | Description  | Remark |
|----------|--------------|--|--------|
|          |              | ACCESSORIES<br>*****   |        |
|          | 1-477-133-11 | REMOTE COMMANDER (RM-U185)   |        |
|          | 1-501-374-11 | ANTENNA, LOOP (AM)   |        |
|          | 1-501-594-11 | ANTENNA (FM) (AEP,UK)  |        |
| △        | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK)   |        |
|          | 1-793-184-21 | CONNECTOR (F TYPE ADAPTOR) (FM ANTENNA)<br>(US)  |        |
|          | 4-228-696-01 | COVER, BATTERY (for RM-U185)   |        |
|          | 4-238-304-11 | MANUAL, INSTRUCTION (ENGLISH)  |        |
|          | 4-238-304-21 | MANUAL, INSTRUCTION (FRENCH,DUTCH,<br>SWEDISH,GERMAN,SPANISH,<br>ITALIAN,POLISH) (AEP) |        |
|          | 4-238-304-31 | MANUAL, INSTRUCTION (DANISH,FINNISH)<br>(AEP)  |        |
|          | 4-238-304-41 | MANUAL, INSTRUCTION (PORTUGUESE) (AEP)   |        |

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

# STR-DE185

SONY®

## SERVICE MANUAL

Ver 1.1 2003. 11

US Model  
AEP Model  
UK Model

### SUPPLEMENT-1

File this supplement with the service manual.

**Subject :** Change of Main Board and IC601

(SPM-03110)

When performing service and inspection, check the suffix of the part number of the main board.

#### • DISCRIMINATION

– MAIN BOARD (COMPONENT SIDE) –



MAIN Board Part No.  
Former : 1-683-814-11  
New : 1-686-993-11




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 2. Schematic Diagram –Main Section (1/2)– ..... 4  
 3. Schematic Diagram –Main Section (2/2)– ..... 5  
 4. Electrical Parts List ..... 6








**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 diagram:**

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

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

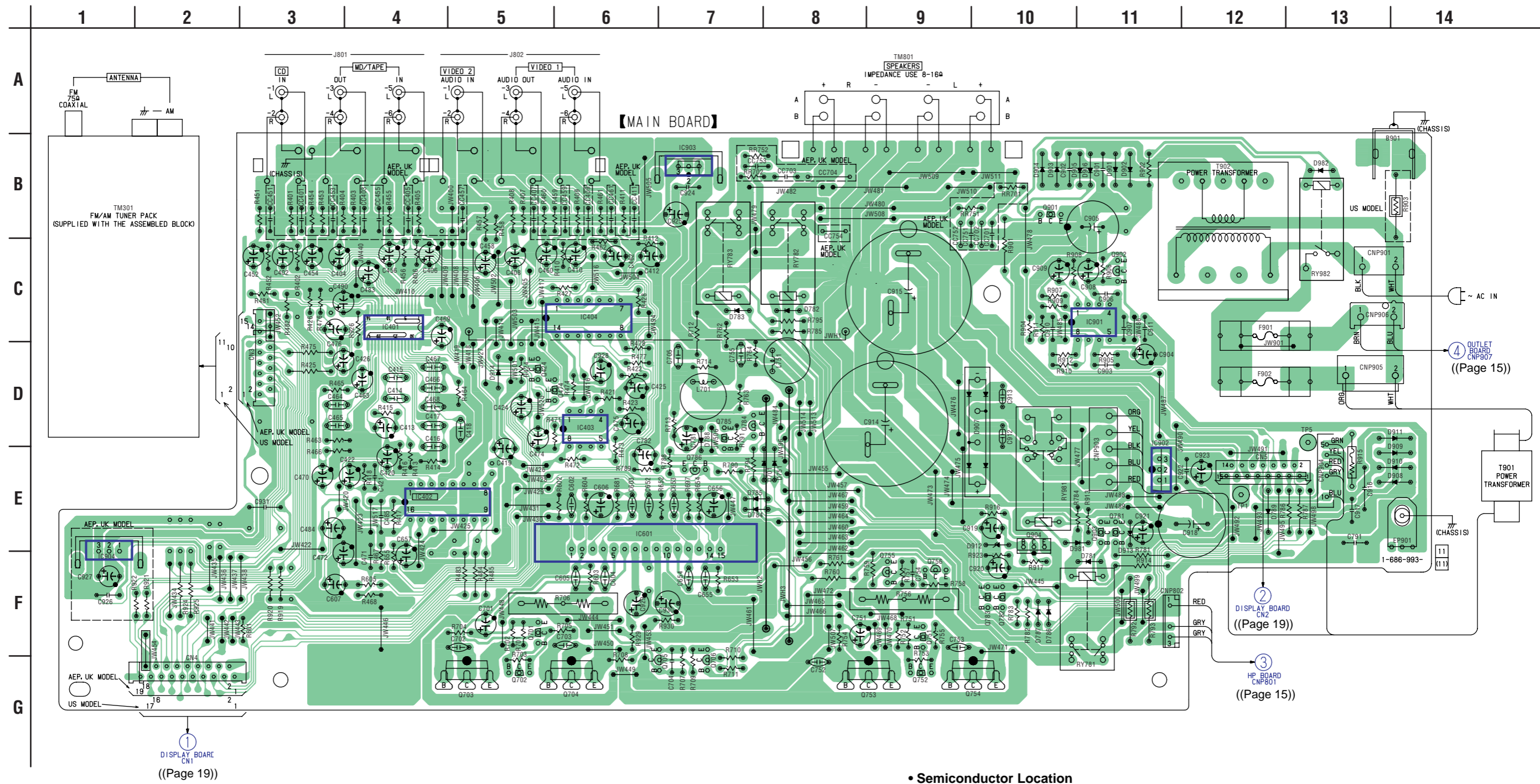
-  : B+ Line.
-  : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : FM
- Voltages are taken with a VOM (Input impedance  $10\text{ M}\Omega$ ).  
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.  
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.  
  -  : FM/AM
  -  : MD/TAPE
  -  : VIDEO 1
  -  : CD
  -  : VIDEO 2

**for printed wiring boards:**

-  : parts extracted from the component side.
- $\triangle$  : internal component.
-  : Pattern from the side which enables seeing.
- ( ) : Refer to page of Supplement-1.
- (( )) : Refer to page of Service Manual.



1. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 2 for Common Note on Printed Wiring Boards.

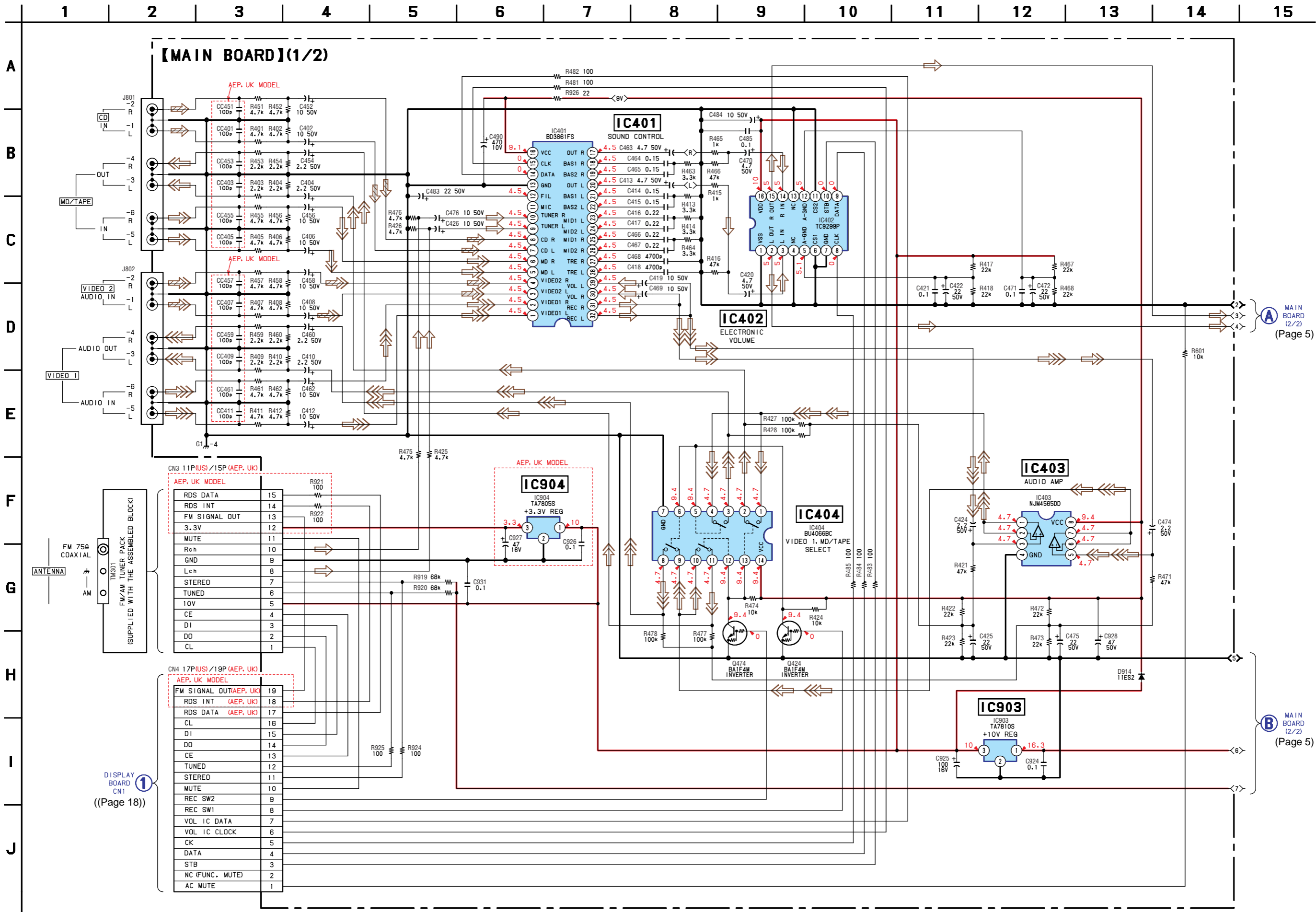


• Semiconductor Location

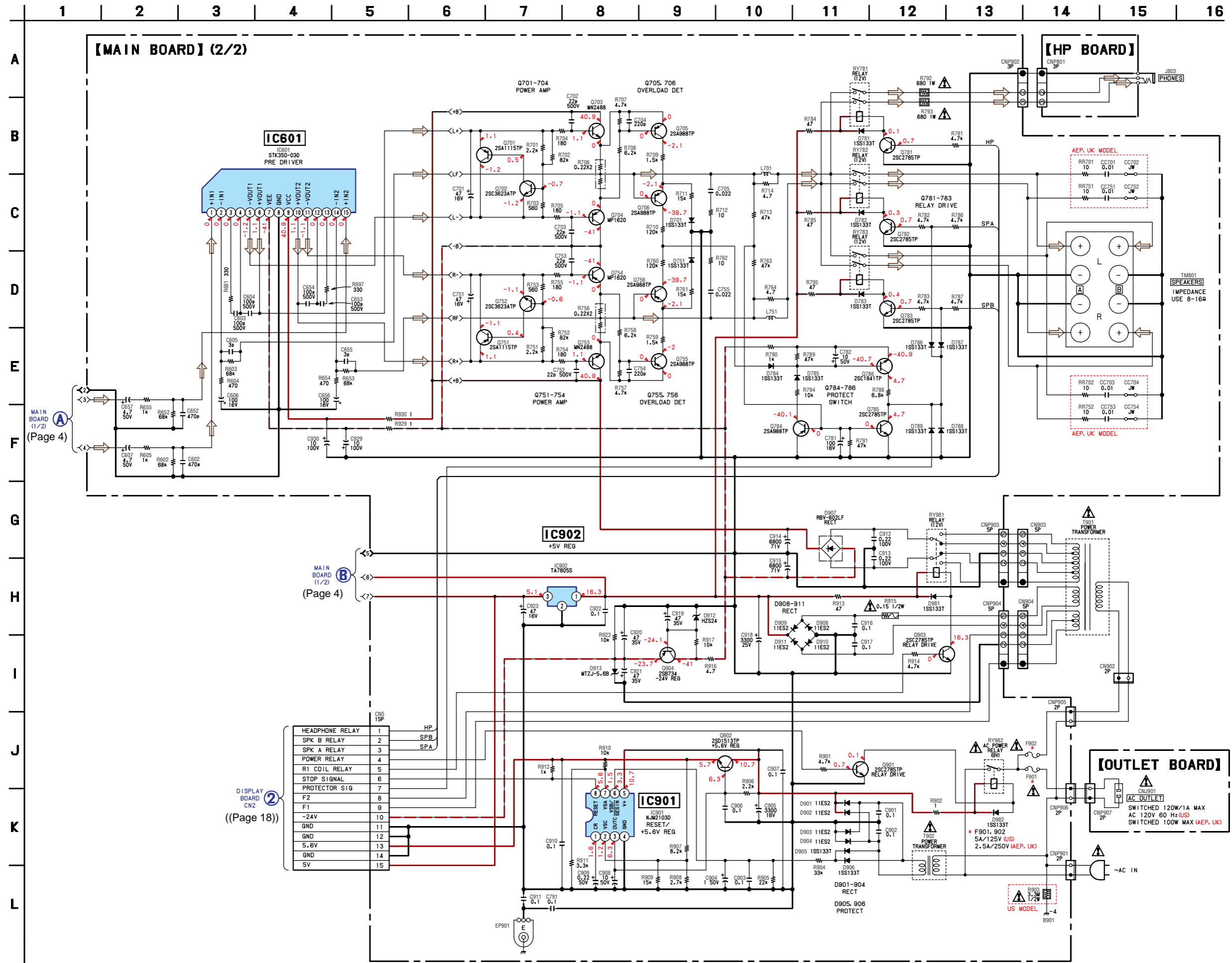
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|----------|----------|
| D701     | E-8      | D906     | B-11     | IC601    | E-6      | Q753     | G-9      |
| D751     | E-8      | D907     | D-10     | IC901    | C-10     | Q754     | G-10     |
| D781     | E-11     | D908     | E-13     | IC902    | E-11     | Q755     | F-9      |
| D782     | C-8      | D909     | E-13     | IC903    | B-7      | Q756     | E-9      |
| D783     | C-7      | D910     | E-13     | (IC904)  | E-1      | Q781     | E-10     |
| D784     | E-7      | D911     | E-13     |          |          | Q782     | F-10     |
| D785     | E-7      | D912     | E-10     | Q424     | D-5      | Q783     | F-10     |
| D786     | F-10     | D913     | E-11     | Q474     | D-6      | Q784     | D-7      |
| D787     | F-10     | D914     | D-5      | Q701     | F-5      | Q785     | D-7      |
| D788     | D-7      | D981     | E-10     | Q702     | G-5      | Q786     | E-7      |
| D789     | E-12     | D982     | B-13     | Q703     | G-5      | Q901     | B-10     |
| D901     | B-11     |          |          | Q704     | G-6      | Q902     | C-11     |
| D902     | B-11     | IC401    | C-4      | Q705     | G-7      | Q903     | E-11     |
| D903     | B-10     | IC402    | E-4      | Q706     | G-7      | Q904     | E-10     |
| D904     | B-10     | IC403    | D-6      | Q751     | G-9      |          |          |
| D905     | B-11     | IC404    | C-6      | Q752     | G-9      |          |          |

( ) : AEP, UK model

2. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 2 for Common Note on Schematic Diagram.



3. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 2 for Common Note on Schematic Diagram.



Note: 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 |
|--------------|--------------|---------------------------|--------|----------|--------------|-------------------------------|--------|
| Q706         | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        | R466     | 1-249-437-11 | CARBON 47K 5%                 | 1/4W   |
| Q751         | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        | R467     | 1-249-433-11 | CARBON 22K 5%                 | 1/4W   |
| Q752         | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        | R468     | 1-249-433-11 | CARBON 22K 5%                 | 1/4W   |
| Q755         | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        | R471     | 1-249-437-11 | CARBON 47K 5%                 | 1/4W   |
| Q756         | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        | R472     | 1-249-433-11 | CARBON 22K 5%                 | 1/4W   |
| Q781         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R473     | 1-249-433-11 | CARBON 22K 5%                 | 1/4W   |
| Q782         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R474     | 1-249-429-11 | CARBON 10K 5%                 | 1/4W   |
| Q783         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R475     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
| Q784         | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        | R476     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
| Q785         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R477     | 1-249-441-11 | CARBON 100K 5%                | 1/4W   |
| Q786         | 8-729-140-84 | TRANSISTOR 2SC1841-PAFAEA |        | R478     | 1-249-441-11 | CARBON 100K 5%                | 1/4W   |
| Q901         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R481     | 1-247-807-31 | CARBON 100 5%                 | 1/4W   |
| Q902         | 8-729-045-21 | TRANSISTOR 2SD1513TP-LK   |        | R482     | 1-247-807-31 | CARBON 100 5%                 | 1/4W   |
| Q903         | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        | R483     | 1-247-807-31 | CARBON 100 5%                 | 1/4W   |
| Q904         | 8-729-140-97 | TRANSISTOR 2SB734-34      |        | R484     | 1-247-807-31 | CARBON 100 5%                 | 1/4W   |
| < RESISTOR > |              |                           |        | R485     | 1-247-807-31 | CARBON 100 5%                 | 1/4W   |
| R401         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R601     | 1-249-429-11 | CARBON 10K 5%                 | 1/4W   |
| R402         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R602     | 1-249-439-11 | CARBON 68K 5%                 | 1/4W   |
| R403         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R603     | 1-249-439-11 | CARBON 68K 5%                 | 1/4W   |
| R404         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R604     | 1-249-413-11 | CARBON 470 5%                 | 1/4W   |
| R405         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R605     | 1-249-417-11 | CARBON 1K 5%                  | 1/4W   |
| R406         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R652     | 1-249-439-11 | CARBON 68K 5%                 | 1/4W   |
| R407         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R653     | 1-249-439-11 | CARBON 68K 5%                 | 1/4W   |
| R408         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R654     | 1-249-413-11 | CARBON 470 5%                 | 1/4W   |
| R409         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R655     | 1-249-417-11 | CARBON 1K 5%                  | 1/4W   |
| R410         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R681     | 1-249-411-11 | CARBON 330 5%                 | 1/4W   |
| R411         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R697     | 1-249-411-11 | CARBON 330 5%                 | 1/4W   |
| R412         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R701     | 1-249-421-11 | CARBON 2.2K 5%                | 1/4W   |
| R413         | 1-247-843-11 | CARBON 3.3K 5%            | 1/4W   | R702     | 1-249-440-11 | CARBON 82K 5%                 | 1/4W   |
| R414         | 1-247-843-11 | CARBON 3.3K 5%            | 1/4W   | R703     | 1-249-414-11 | CARBON 560 5%                 | 1/4W   |
| R415         | 1-249-417-11 | CARBON 1K 5%              | 1/4W   | R704     | 1-249-408-11 | CARBON 180 5%                 | 1/4W   |
| R416         | 1-249-437-11 | CARBON 47K 5%             | 1/4W   | R705     | 1-249-408-11 | CARBON 180 5%                 | 1/4W   |
| R417         | 1-249-433-11 | CARBON 22K 5%             | 1/4W   | R706     | 1-234-182-11 | ENCAPSULATED COMPONENT 0.22X2 |        |
| R418         | 1-249-433-11 | CARBON 22K 5%             | 1/4W   | R707     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
| R421         | 1-249-437-11 | CARBON 47K 5%             | 1/4W   | R708     | 1-240-855-81 | CARBON 6.2K 5%                | 1/4W   |
| R422         | 1-249-433-11 | CARBON 22K 5%             | 1/4W   | R709     | 1-249-419-11 | CARBON 1.5K 5%                | 1/4W   |
| R423         | 1-249-433-11 | CARBON 22K 5%             | 1/4W   | R710     | 1-247-881-00 | CARBON 120K 5%                | 1/4W   |
| R424         | 1-249-429-11 | CARBON 10K 5%             | 1/4W   | R711     | 1-249-431-11 | CARBON 15K 5%                 | 1/4W   |
| R425         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R712     | 1-249-393-11 | CARBON 10 5%                  | 1/4W   |
| R426         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R713     | 1-249-437-11 | CARBON 47K 5%                 | 1/4W   |
| R427         | 1-249-441-11 | CARBON 100K 5%            | 1/4W   | R714     | 1-249-389-11 | CARBON 4.7 5%                 | 1/4W   |
| R428         | 1-249-441-11 | CARBON 100K 5%            | 1/4W   | R751     | 1-249-421-11 | CARBON 2.2K 5%                | 1/4W   |
| R451         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R752     | 1-249-440-11 | CARBON 82K 5%                 | 1/4W   |
| R452         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R753     | 1-249-414-11 | CARBON 560 5%                 | 1/4W   |
| R453         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R754     | 1-249-408-11 | CARBON 180 5%                 | 1/4W   |
| R454         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R755     | 1-249-408-11 | CARBON 180 5%                 | 1/4W   |
| R455         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R756     | 1-234-182-11 | ENCAPSULATED COMPONENT 0.22X2 |        |
| R456         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R757     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
| R457         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R758     | 1-240-855-81 | CARBON 6.2K 5%                | 1/4W   |
| R458         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R759     | 1-249-419-11 | CARBON 1.5K 5%                | 1/4W   |
| R459         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R760     | 1-247-881-00 | CARBON 120K 5%                | 1/4W   |
| R460         | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   | R761     | 1-249-431-11 | CARBON 15K 5%                 | 1/4W   |
| R461         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R762     | 1-249-393-11 | CARBON 10 5%                  | 1/4W   |
| R462         | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   | R763     | 1-249-437-11 | CARBON 47K 5%                 | 1/4W   |
| R463         | 1-247-843-11 | CARBON 3.3K 5%            | 1/4W   | R764     | 1-249-389-11 | CARBON 4.7 5%                 | 1/4W   |
| R464         | 1-247-843-11 | CARBON 3.3K 5%            | 1/4W   | R781     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
| R465         | 1-249-417-11 | CARBON 1K 5%              | 1/4W   | R782     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |
|              |              |                           |        | R783     | 1-249-425-11 | CARBON 4.7K 5%                | 1/4W   |

# STR-DE185

## MAIN

| Ref. No. | Part No.     | Description             |      |     | Remark | Ref. No. | Part No.     | Description                 | Remark   |
|----------|--------------|-------------------------|------|-----|--------|----------|--------------|-----------------------------|----------|
| R784     | 1-249-401-11 | CARBON                  | 47   | 5%  | 1/4W   | △ T902   | 1-435-435-11 | TRANSFORMER, POWER (AEP,UK) |          |
| R785     | 1-249-401-11 | CARBON                  | 47   | 5%  | 1/4W   |          |              |                             |          |
| R786     | 1-249-425-11 | CARBON                  | 4.7K | 5%  | 1/4W   |          |              | < TERMINAL BOARD >          |          |
| R787     | 1-249-425-11 | CARBON                  | 4.7K | 5%  | 1/4W   |          |              |                             |          |
| R788     | 1-249-427-11 | CARBON                  | 6.8K | 5%  | 1/4W   | TM801    | 1-537-376-11 | TERMINAL BOARD (SPEAKERS)   |          |
| R789     | 1-249-437-11 | CARBON                  | 47K  | 5%  | 1/4W   |          |              |                             |          |
| R790     | 1-249-417-11 | CARBON                  | 1K   | 5%  | 1/4W   |          |              |                             |          |
| R791     | 1-249-437-11 | CARBON                  | 47K  | 5%  | 1/4W   |          |              |                             |          |
| △ R792   | 1-215-868-00 | METAL OXIDE             | 680  | 5%  | 1W     | F        |              |                             |          |
| △ R793   | 1-215-868-00 | METAL OXIDE             | 680  | 5%  | 1W     | F        |              |                             |          |
| R794     | 1-249-429-11 | CARBON                  | 10K  | 5%  | 1/4W   |          |              |                             |          |
| R795     | 1-249-401-11 | CARBON                  | 47   | 5%  | 1/4W   |          |              |                             |          |
| R901     | 1-249-425-11 | CARBON                  | 4.7K | 5%  | 1/4W   |          |              |                             |          |
| R902     | 1-249-381-11 | CARBON                  | 1    | 5%  | 1/4W   |          |              |                             |          |
| △ R903   | 1-219-237-11 | SOLID                   | 3.3M | 20% | 1/2W   | F        |              |                             | (US)     |
| R904     | 1-249-435-11 | CARBON                  | 33K  | 5%  | 1/4W   |          |              |                             |          |
| R905     | 1-249-433-11 | CARBON                  | 22K  | 5%  | 1/4W   |          |              |                             |          |
| R906     | 1-249-421-11 | CARBON                  | 2.2K | 5%  | 1/4W   |          |              |                             |          |
| R907     | 1-249-428-11 | CARBON                  | 8.2K | 5%  | 1/4W   |          |              |                             |          |
| R908     | 1-249-422-11 | CARBON                  | 2.7K | 5%  | 1/4W   |          |              |                             |          |
| R909     | 1-249-431-11 | CARBON                  | 15K  | 5%  | 1/4W   |          |              |                             |          |
| R910     | 1-249-429-11 | CARBON                  | 10K  | 5%  | 1/4W   |          |              |                             |          |
| R911     | 1-247-843-11 | CARBON                  | 3.3K | 5%  | 1/4W   |          |              |                             |          |
| R912     | 1-249-417-11 | CARBON                  | 1K   | 5%  | 1/4W   |          |              |                             |          |
| R913     | 1-249-401-11 | CARBON                  | 47   | 5%  | 1/4W   |          |              |                             |          |
| △ R915   | 1-240-877-11 | FUSIBLE                 | 0.15 | 5%  | 1/2W   | F        |              |                             |          |
| R916     | 1-249-389-11 | CARBON                  | 4.7  | 5%  | 1/4W   |          |              |                             |          |
| R917     | 1-249-429-11 | CARBON                  | 10K  | 5%  | 1/4W   |          |              |                             |          |
| R919     | 1-249-439-11 | CARBON                  | 68K  | 5%  | 1/4W   |          |              |                             |          |
| R920     | 1-249-439-11 | CARBON                  | 68K  | 5%  | 1/4W   |          |              |                             |          |
| R921     | 1-247-807-31 | CARBON                  | 100  | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
| R922     | 1-247-807-31 | CARBON                  | 100  | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
| R923     | 1-249-429-11 | CARBON                  | 10K  | 5%  | 1/4W   |          |              |                             |          |
| R924     | 1-247-807-31 | CARBON                  | 100  | 5%  | 1/4W   |          |              |                             |          |
| R925     | 1-247-807-31 | CARBON                  | 100  | 5%  | 1/4W   |          |              |                             |          |
| R926     | 1-249-397-11 | CARBON                  | 22   | 5%  | 1/4W   |          |              |                             |          |
| R929     | 1-249-381-11 | CARBON                  | 1    | 5%  | 1/4W   |          |              |                             |          |
| R930     | 1-249-381-11 | CARBON                  | 1    | 5%  | 1/4W   |          |              |                             |          |
| RR701    | 1-249-393-11 | CARBON                  | 10   | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
| RR702    | 1-249-393-11 | CARBON                  | 10   | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
| RR751    | 1-249-393-11 | CARBON                  | 10   | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
| RR752    | 1-249-393-11 | CARBON                  | 10   | 5%  | 1/4W   |          |              |                             | (AEP,UK) |
|          |              | < RELAY >               |      |     |        |          |              |                             |          |
| RY781    | 1-755-421-11 | RELAY (12V)             |      |     |        |          |              |                             |          |
| RY782    | 1-755-421-11 | RELAY (12V)             |      |     |        |          |              |                             |          |
| RY783    | 1-755-421-11 | RELAY (12V)             |      |     |        |          |              |                             |          |
| RY981    | 1-755-013-11 | RELAY (12V)             |      |     |        |          |              |                             |          |
| △ RY982  | 1-755-334-11 | RELAY, AC POWER (9V)    |      |     |        |          |              |                             |          |
|          |              | < TRANSFORMER >         |      |     |        |          |              |                             |          |
| △ T902   | 1-435-281-11 | TRANSFORMER, POWER (US) |      |     |        |          |              |                             |          |

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

**MEMO**

