

# STR-GA7ES/TA-VA7ES

## SERVICE MANUAL

*US Model*  
*Canadian Model*  
*Australian Model*  
STR-GA7ES  
*Chinese Model*  
TA-VA7ES



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Photo: STR-GA7ES

### SPECIFICATIONS

#### Amplifier section

##### POWER OUTPUT

**Stereo mode** 8 ohms 20 Hz - 20 kHz,  
90 W + 90 W

**Surround mode** 8 ohms at 1 kHz,  
THD 0.8 %

|               | TA-VA7ES | STR-GA7ES |
|---------------|----------|-----------|
| <b>Front</b>  | 100W/ch  | 90 W/ch   |
| <b>Center</b> | 100W     | 90 W      |
| <b>Rear</b>   | 40W/ch   | 40 W/ch   |

**Dynamic power** 140 W + 140 W, 8 ohms  
**output (STR-GA7ES)** 240 W + 240 W, 4 ohms

**Harmonic distortion at rated output** Less than 0.05 %

**Frequency response** PHONO: RIAA  
equalization curve  
 $\pm 0.5$  dB  
CD, TAPE, DAT/MD,  
TV, LD, VIDEO 1, 2:  
STR-GA7ES:  
10 Hz - 50 kHz,  $\pm 1$  dB  
TA-VA7ES:  
20Hz-50kHz,  $\pm 0.5$  dB

#### Inputs (STR-GA7ES)

|                                                | Sensitivity | Impedance  | S/N*  |
|------------------------------------------------|-------------|------------|-------|
| <b>PHONO (MM)</b>                              | 2.5 mV      | 50 kilohms | 75 dB |
| <b>CD, TAPE, DAT/MD, VIDEO 1, 2, 3, TV, LD</b> | 150 mV      | 50 kilohms | 82 dB |

\* '78 IHF

#### Inputs (TA-VA7ES)

|                                                       | Sensitivity | Impedance  | S/N<br>(Weighting network,<br>input level) |
|-------------------------------------------------------|-------------|------------|--------------------------------------------|
| <b>PHONO (MM)</b>                                     | 2.5 mV      | 50 kilohms | 78 dB<br>(A, 5 mV)                         |
| <b>CD, TAPE, DAT/MD, VIDEO 1, 2, 3, TV, LD, TUNER</b> | 150 mV      | 50 kilohms | 92 dB<br>(A)                               |

#### Outputs

**REC OUT VIDEO 1, 2 (AUDIO) OUT:**  
Voltage 250 mV,  
Impedance 10 kilohms  
**WOOFER OUT**  
Voltage: 2 V  
Impedance: 1 kilohms  
**PHONES:** Accepts low and high impedance headphones

**BASS BOOST** +7 dB at 70 Hz

#### Digital signal processor section

**Surround** **DELAY TIME**  
In PRO LOGIC mode:  
15.0 ms - 30 ms, 5 ms step  
In other sound field modes  
5 ms - 30 ms, 5 ms step  
**REAR LEVEL**  
-15 dB - +10 dB, 1 dB step  
**CENTER LEVEL\*\***

\*\* Only for sound fields with a CENTER LEVEL parameter

- Continued on page 2 -

STR-GA7ES  
**FM STEREO/FM-AM RECEIVER**

TA-VA7ES  
**INTEGRATED AV AMPLIFIER**

**SONY®**

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

#### FM tuner section (STR-GA7ES)

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced

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

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

S/N Mono: 76 dB  
Stereo: 70 dB

Harmonic distortion at 1 kHz Mono: 0.3 %  
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz  $^{+0.5}_{-2}$  dB

Selectivity 60 dB at 400 kHz

#### AM tuner section (STR-GA7ES)

Tuning range With 10 kHz interval\*: 530 - 1710 kHz  
With 9 kHz interval: 531 - 1710 kHz

Antenna Loop antenna

Usable sensitivity 50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m, 400 kHz)

Selectivity At 9 kHz: 35 dB  
At 10 kHz: 40 dB

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

#### Video section

Inputs VIDEO 1, 2, TV:  
1 Vp-p 75 ohms

Outputs VIDEO 1, 2, MONITOR:  
1 Vp-p 75 ohms

#### General

System Tuner section (STR-GA7ES):  
PLL quartz-locked digital synthesizer system  
Preamplifier section:  
Low-noise NF type equalizer  
Power amplifier section:  
Pure-complimentary SEPP

Power requirements USA and Canadian model:  
120 V AC, 60 Hz  
Australian model:  
240 V AC, 50 Hz  
Chinese model:  
220-230V AC, 50/60Hz

Power consumption USA model: 280 W  
Canada model: 390 VA  
Other models: 310 W

AC outlets Australian model:  
1 switched, total 120 W  
Other models:  
2 switched, total 120 W

Dimensions 430 x 160 x 425 mm  
(17 x 6  $\frac{3}{8}$  x 16  $\frac{3}{4}$  inches)

Mass (Approx.) 13.8 kg (30 lb 7 oz)

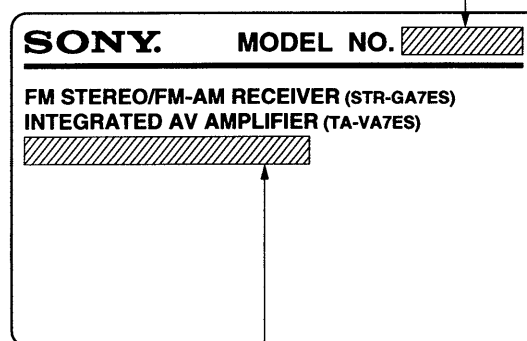
Supplied accessories Remote commander (remote) (1)  
Size AA (R6) batteries (2)  
STR-GA7ES:  
FM wire antenna (1)  
AM loop antenna (1)

Design and specifications are subject to change without notice.

#### MODEL IDENTIFICATION

— Specification Label Printed on Back Panel —

STR-GA7ES  
TA-VA7ES



US, Canadian model : AC 120 V 60 Hz  
Australian model : AC 240 V 50Hz  
Chinese model : AC 220-230 V 50/60 Hz

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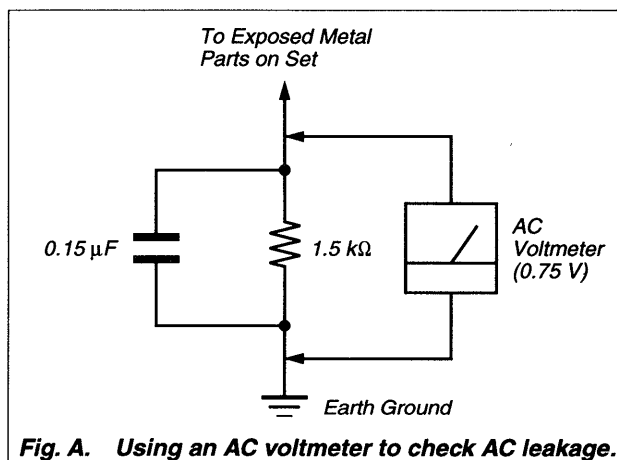
## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE 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 2 V AC range are suitable. (See Fig. A)



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

## 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.

## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

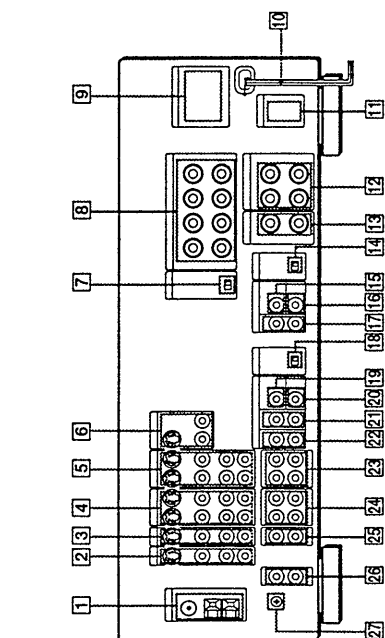
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

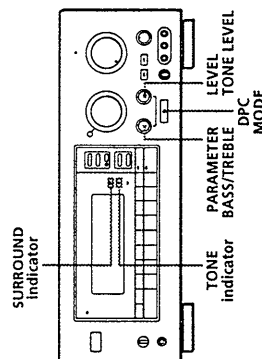
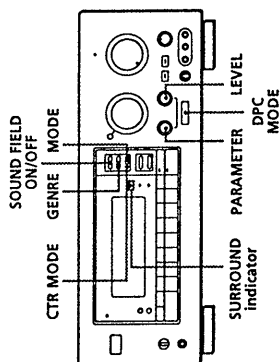
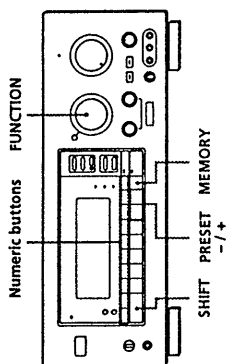
## SECTION 1 GENERAL

### • STR-GA7ES

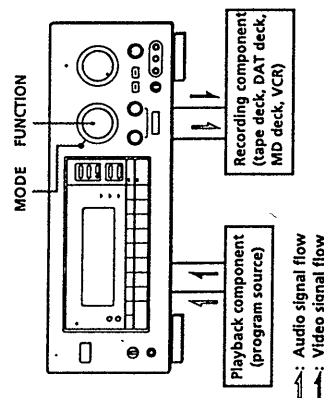
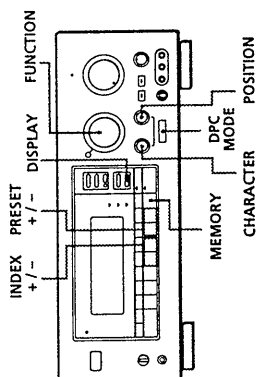
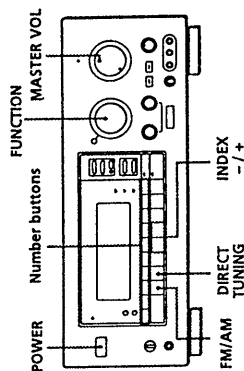
#### Rear Panel Descriptions



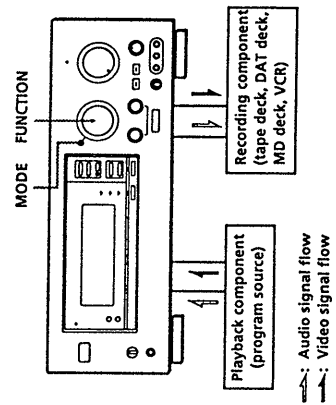
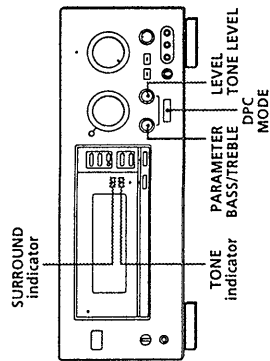
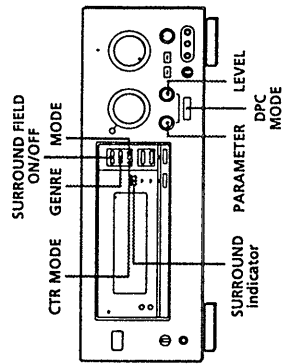
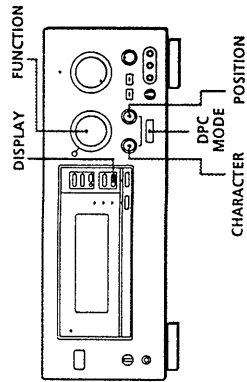
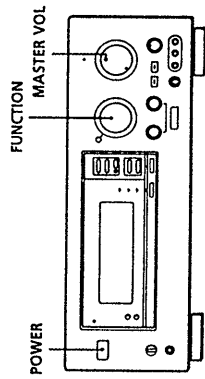
- |                                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
| 1 ANTENNA (AM/FM)                                                                 | 13 5.1 INPUT (CENTER)                     |
| 2 TV/DBS                                                                          | 14 AC power cord                          |
| 3 LD                                                                              | 15 VOLTAGE SELECTOR (certain models only) |
| 4 VIDEO 2                                                                         | 16 REAR SPEAKERS                          |
| 5 VIDEO 1                                                                         | 17 CENTER SPEAKER                         |
| 6 MONITOR (see page 7)                                                            | 18 POWER SWAP (see page 7)                |
| 7 IMPEDANCE SELECTOR (see page 7)                                                 | 19 SURROUND OUT (CENTER)                  |
| 8 FRONT SPEAKERS (A/B)                                                            | 20 SURROUND OUT (WOOFER)                  |
| 9 SWITCHED AC OUTLETS (Outlet shape and position varies according to destination) | 21 SURROUND OUT (REAR) (see page 7)       |
|                                                                                   | 22 5.1 INPUT (REAR)                       |
|                                                                                   | 23 5.1 INPUT (FRONT)                      |
|                                                                                   | 24 TAPE                                   |
|                                                                                   | 25 DAT/MD                                 |
|                                                                                   | 26 CD                                     |
|                                                                                   | 27 PHONO                                  |
|                                                                                   | 28 $\phi$ ground terminal                 |



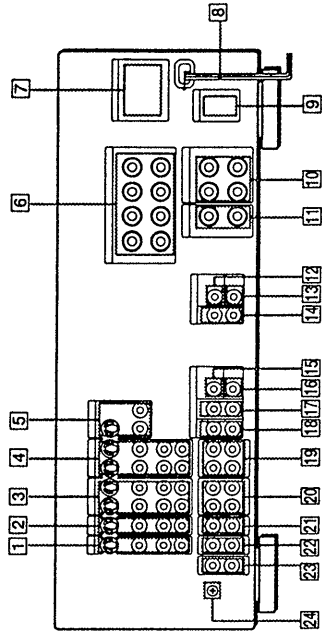
#### Front Panel Descriptions



## Front Panel Descriptions



## Rear Panel Descriptions



- 1 TV
- 2 LD
- 3 VIDEO 2
- 4 VIDEO 1
- 5 MONITOR
- 6 FRONT SPEAKERS (A/B)
- 7 SWITCHED AC OUTLETS (Outlet shape and position varies according to destination)
- 8 AC power cord
- 9 VOLTAGE SELECTOR (certain models only)
- 10 REAR SPEAKERS
- 11 CENTER SPEAKER
- 12 SURROUND OUT (CENTER)
- 13 SURROUND OUT (WOOFER)
- 14 SURROUND OUT (REAR)
- 15 5.1 INPUT (CENTER)
- 16 5.1 INPUT (WOOFER)
- 17 5.1 INPUT (REAR)
- 18 5.1 INPUT (FRONT)
- 19 TAPE
- 20 DAT/MD
- 21 CD
- 22 TUNER
- 23 PHONO
- 24  $\phi$  ground terminal

## SECTION 2 DIAGRAMS

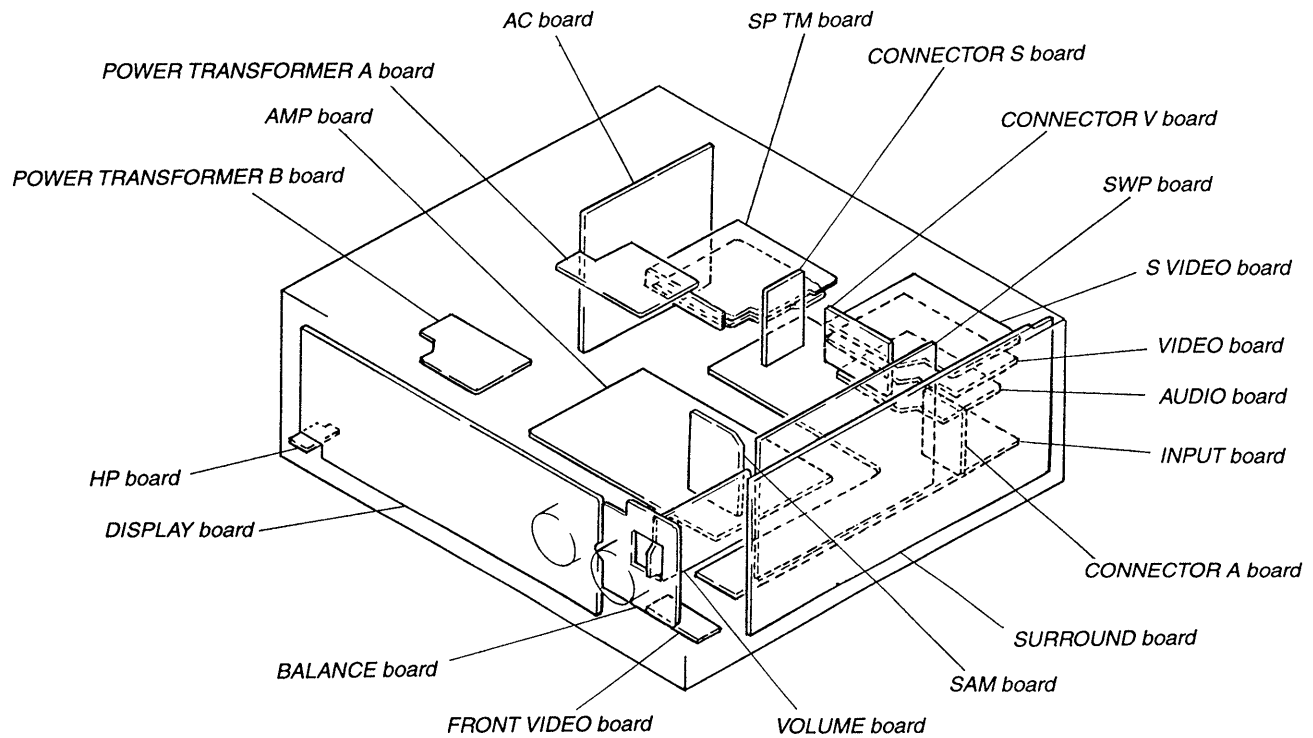
### 2-1. IC PIN FUNCTION DESCRIPTION

#### DISPLAY BOARD IC101 MB90673PF-G-164-BND (SYSTEM CONTROL)

| Pin No. | Pin Name   | I/O | Function                                           |
|---------|------------|-----|----------------------------------------------------|
| 1       | KIN6       | I   | Key Input                                          |
| 2       | KIN7       | I   |                                                    |
| 3       | KOUT0      | O   | Key output                                         |
| 4       | KOUT1      | O   |                                                    |
| 5       | KOUT2      | O   |                                                    |
| 6       | KOUT3      | O   |                                                    |
| 7       | KOUT4      | O   |                                                    |
| 8       | KOUT5      | O   |                                                    |
| 9       | V-INT      | O   | Not used (Open)                                    |
| 10      | SW-SPOFF   | I   | SP OFF SW input                                    |
| 11      | VSS        | –   | Ground                                             |
| 12      | LED-VOL    | O   | Volume LED signal output                           |
| 13      | LED-STBY   | I/O | Standby LED signal input/output                    |
| 14      | T-IFD      | I   | PLL data input                                     |
| 15      | T-STEREO   | I   | Stereo signal input                                |
| 16      | T-A. STOP  | I   | Tuner auto stop signal input                       |
| 17      | T-MUTE     | O   | Tuner mute signal output                           |
| 18      | F-MUTE     | O   | Function mute signal output                        |
| 19      | A-MUTE     | O   | All mute signal output                             |
| 20      | RX         | I   | Data input from OSD microcomputer (IC809)          |
| 21      | TX         | O   | Data output to OSD microcomputer (IC809)           |
| 22      | BUSY       | I   | Busy signal input. Not used (Connected to Ground)  |
| 23      | FL CLR     | O   | FL clear output                                    |
| 24      | FL DAT     | O   | FL data output                                     |
| 25      | FL CLK     | O   | FL clock output                                    |
| 26      | FL LAT     | O   | FL latch output                                    |
| 27      | SIRCS      | I   | Sircs input                                        |
| 28      | AVCC       | –   | Analog power supply (+5 V)                         |
| 29      | AVR+       | –   | Reference voltage (+5 V)                           |
| 30      | AVR-       | –   | Reference voltage (Ground)                         |
| 31      | AVSS       | –   | Analog power supply (Ground)                       |
| 32      | SW-POWER.T | I   | Power SW (from S134) input                         |
| 33      | SW-POWER.M | I   | Power SW (from S133) input                         |
| 34      | VSS        | –   | Ground                                             |
| 35      | SW-SPA+B   | I   | SP SW A+B signal input                             |
| 36      | VOL+       | O   | Volume + control                                   |
| 37      | VOL–       | O   | Volume – control                                   |
| 38      | SW–LC, FIL | I   | Low cut filter SW input                            |
| 39      | SW-4/8     | I   | 4-8 SW input                                       |
| 40      | SLAT       | O   | Serial latch output                                |
| 41      | MDO        | I   | Mode select input Fixed at “H” (Connected to +5 V) |
| 42      | MD1        | I   |                                                    |
| 43      | MD2        | I   | Mode select input (Connected to Ground)            |
| 44      | HSTX       | –   | HSTX Fixed at “H” (Connected to +5 V)              |

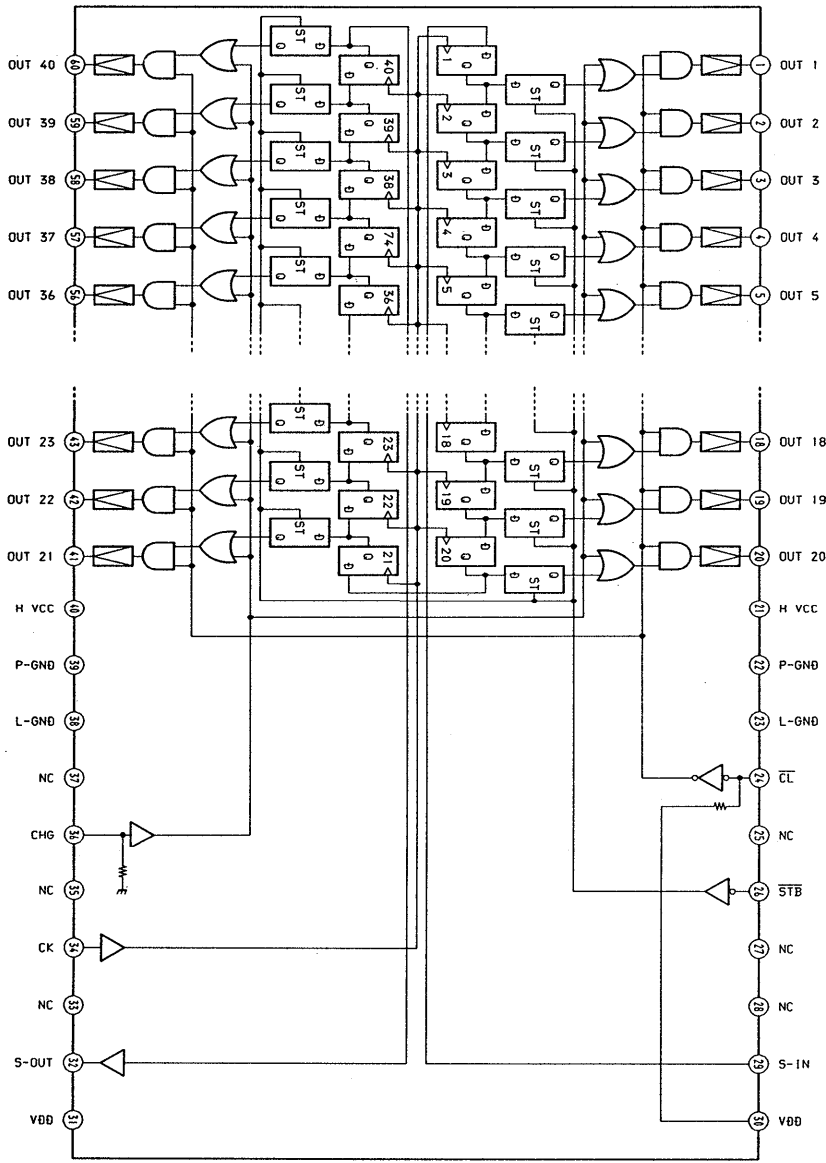
| Pin No. | Pin Name   | I/O | Function                      |
|---------|------------|-----|-------------------------------|
| 45      | STOP       | I   | STOP signal input             |
| 46      | SLCK       | O   | Serial clock output           |
| 47      | SDAT       | O   | Serial data output            |
| 48      | LAT-SUR    | O   | Surround latch output         |
| 49      | LAT-TONE   | O   | Tone Latch output             |
| 50      | LAT-EXT    | O   | EXT latch output              |
| 51      | INH        | O   | Video inhibit output          |
| 52      | RY-POWER   | O   | Power relay output            |
| 53      | SW-31      | I   | Connected to Ground           |
| 54      | SW-SWAP    | I   | SWAP SW input                 |
| 55      | ENC-FNC.B  | I   | Function (B) encoder input    |
| 56      | ENC-FNC.A  | I   | Function (A) encoder input    |
| 57      | ENC-U/D.B  | I   | Up/down (B) encoder input     |
| 58      | ENC-U/D.A  | I   | Up/down (A) encoder input     |
| 59      | ENC-L/R.B  | I   | L/R (B) encoder input         |
| 60      | ENC-L/R.A  | I   | L/R (A) encoder input         |
| 61      | PROTECT    | I   | Protect signal input          |
| 62      | RESET      | I   | Reset signal input            |
| 63      | VSS        | –   | Ground                        |
| 64      | XO         | O   | System clock OSC(4.0 MHz)     |
| 65      | XI         | I   |                               |
| 66      | VCC        | –   | Power supply (+5 V)           |
| 67      | LED-MUTE   | O   | MUTE LED signal output        |
| 68      | LED-5.1    | O   | 5.1 LED signal output         |
| 69      | LED-TAPE   | O   | TAPE LED signal output        |
| 70      | LED-DIRECT | O   | DIRECT PASS LED signal output |
| 71      | LED-BASS.B | O   | BASS BOOST LED signal output  |
| 72      | LED-INDEX  | O   | INDEX LED signal output       |
| 73      | LED-EQ     | O   | EQ LED signal output          |
| 74      | LED-SURR   | O   | SURROUND LED signal output    |
| 75      | KINO       | I   | Key input                     |
| 76      | KIN1       | I   |                               |
| 77      | KIN2       | I   |                               |
| 78      | KIN3       | I   |                               |
| 79      | KIN4       | I   |                               |
| 80      | KIN5       | I   |                               |

• **Circuit Boards Location**

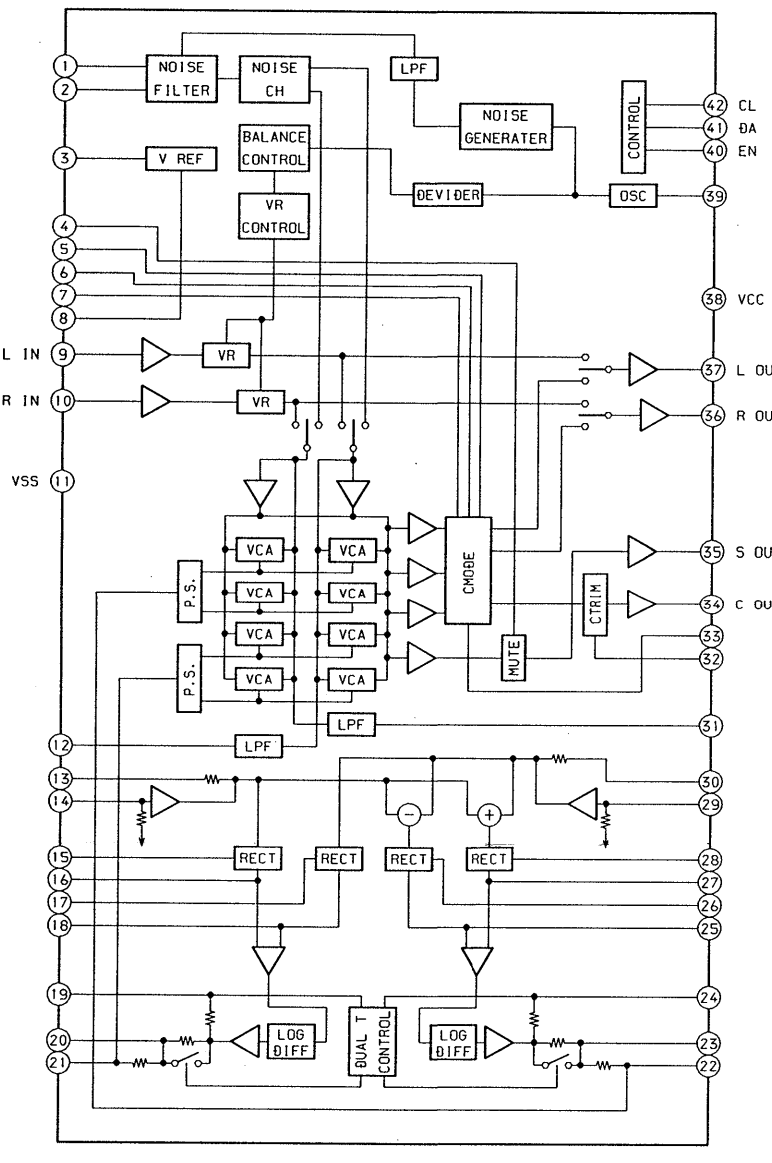


• IC Block Diagrams

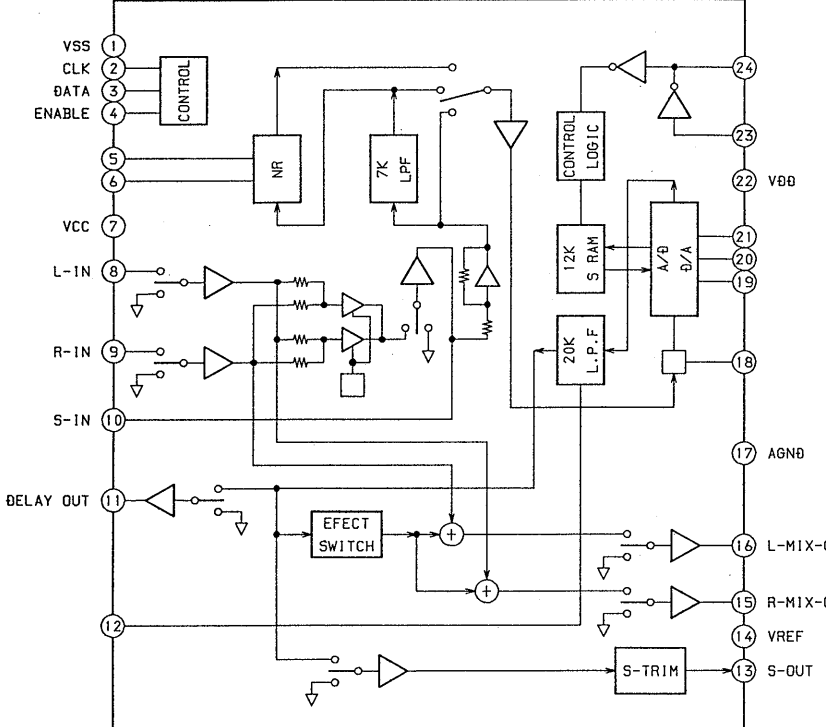
IC100, 105 TD62C950RF



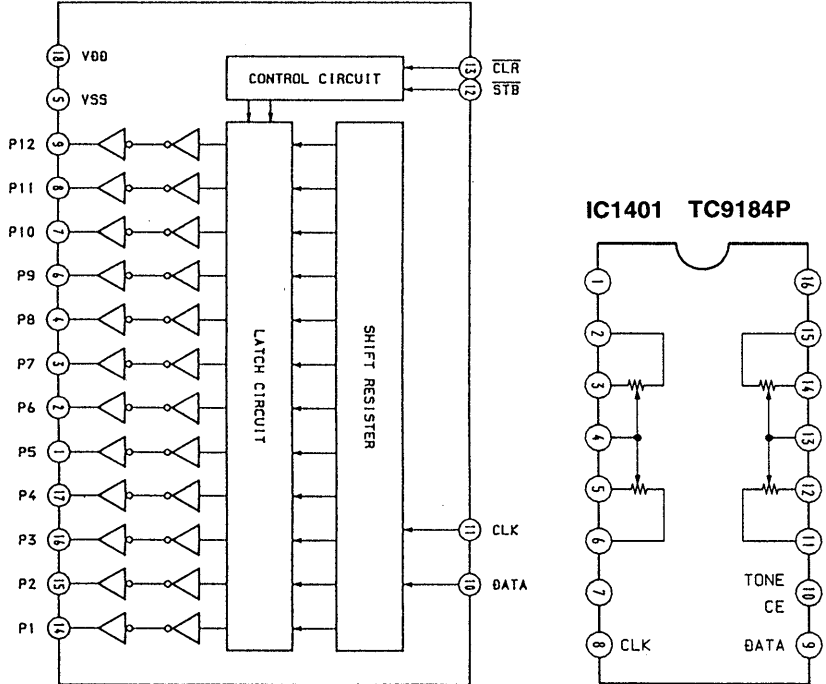
IC1301 LA2785



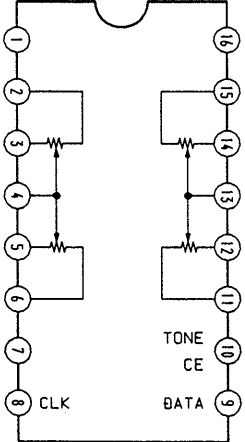
IC1302 LV1011



IC1403 NJU3713D



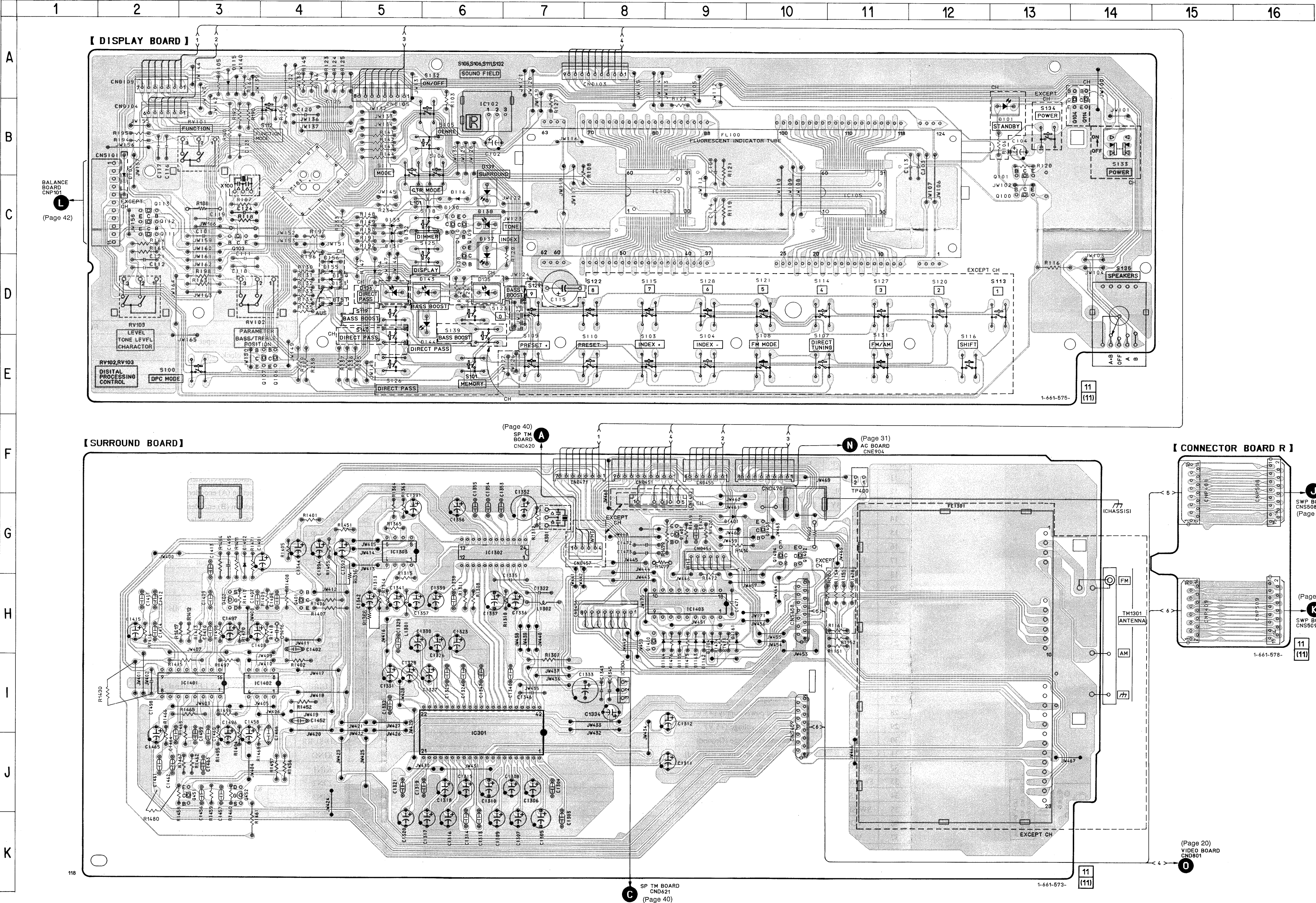
IC1401 TC9184P



Note on Printed Wiring Boards:  
• : parts extracted from the component side.  
• : parts extracted from the conductor side.  
• : internal component.  
• : Pattern from the side which enables seeing.  
• Abbreviation  
AUS : Australian  
CH : Chinese

| Semiconductor Location |          |  |
|------------------------|----------|--|
| Ref. No.               | Location |  |
| D101                   | B-13     |  |
| D104                   | C-2      |  |
| D115                   | A-3      |  |
| D116                   | C-6      |  |
| D130                   | C-6      |  |
| D131                   | C-5      |  |
| D132                   | C-5      |  |
| D133                   | C-5      |  |
| D134                   | D-5      |  |
| D135                   | D-6      |  |
| D136                   | D-5      |  |
| D137                   | D-6      |  |
| D138                   | C-6      |  |
| D139                   | C-6      |  |
| D143                   | D-6      |  |
| D144                   | E-6      |  |
| D151                   | D-4      |  |
| D153                   | D-4      |  |
| D154                   | D-4      |  |
| D155                   | D-4      |  |
| D156                   | D-4      |  |
| D1104                  | H-9      |  |
| D1105                  | H-9      |  |
| D1161                  | H-9      |  |
| D1162                  | H-9      |  |
| D1163                  | H-9      |  |
| D1164                  | H-8      |  |
| D1401                  | G-9      |  |
| D1402                  | G-3      |  |
| IC100                  | C-8      |  |
| IC101                  | C-4      |  |
| IC102                  | B-6      |  |
| IC105                  | C-11     |  |
| IC1301                 | J-6      |  |
| IC1302                 | G-6      |  |
| IC1303                 | G-5      |  |
| IC1304                 | I-8      |  |
| IC1401                 | I-3      |  |
| IC1402                 | I-3      |  |
| IC1403                 | H-9      |  |
| Q100                   | C-13     |  |
| Q101                   | B-13     |  |
| Q103                   | C-3      |  |
| Q104                   | A-14     |  |
| Q106                   | E-4      |  |
| Q107                   | E-4      |  |
| Q108                   | D-6      |  |
| Q109                   | C-6      |  |
| Q110                   | C-6      |  |
| Q111                   | C-2      |  |
| Q112                   | C-2      |  |
| Q113                   | C-2      |  |
| Q114                   | A-14     |  |
| Q401                   | H-4      |  |
| Q402                   | H-3      |  |
| Q451                   | J-3      |  |
| Q452                   | J-3      |  |
| Q1401                  | G-9      |  |
| Q1402                  | G-10     |  |
| Q1403                  | G-10     |  |
| Q1404                  | G-10     |  |
| Q1410                  | H-8      |  |

2-2. PRINTED WIRING BOARDS – DISPLAY/SURROUND Section – • See page 8 for Circuit Boards Location.

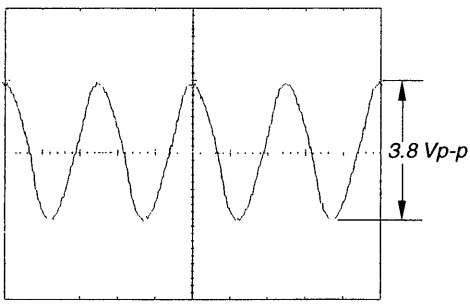


Note on Schematic Diagram:

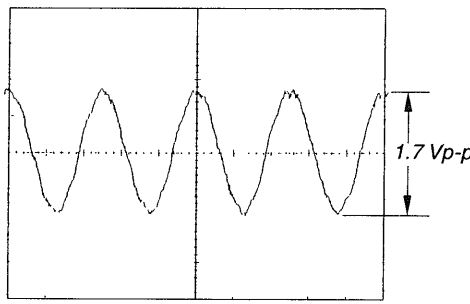
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4} \text{ W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
- $\square$  : panel designation.
- $\text{B}+$  : B + Line.
- $\text{B}-$  : B - Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- Voltages are taken with a VOM (input impedance  $10 \text{ M}\Omega$ ).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$  : FM
- Abbreviation
- AUS : Australian
- CH : Chinese

Waveforms

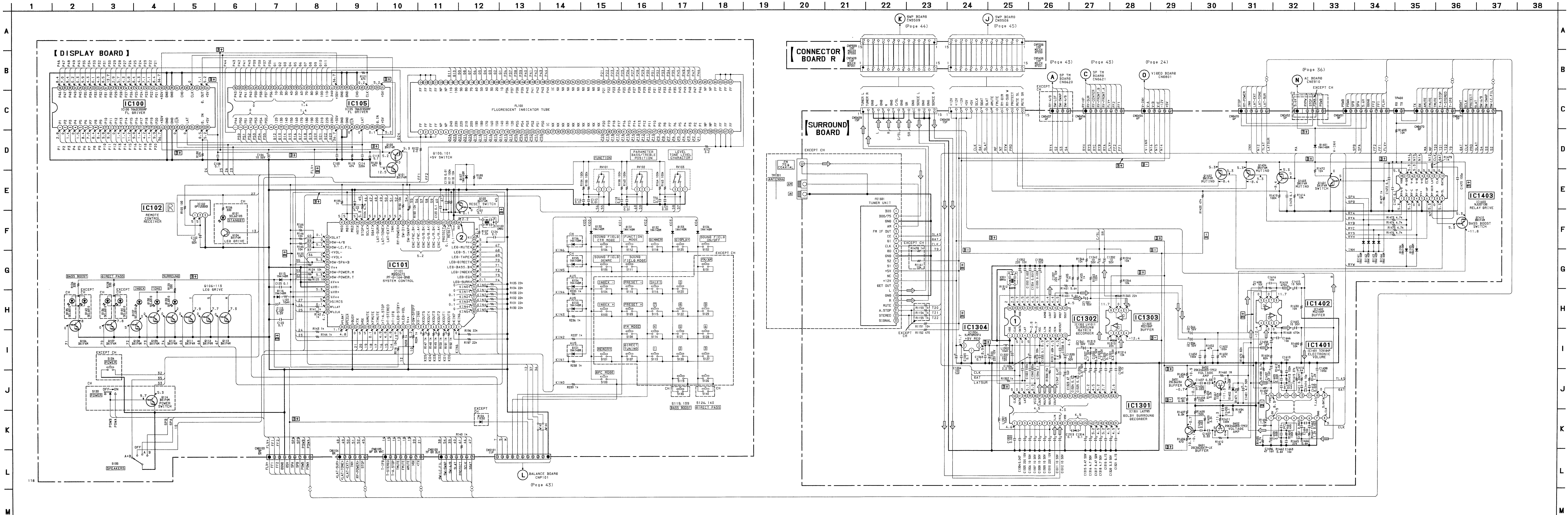
IC102 @ 8 MHz



IC101 @ 4 MHz



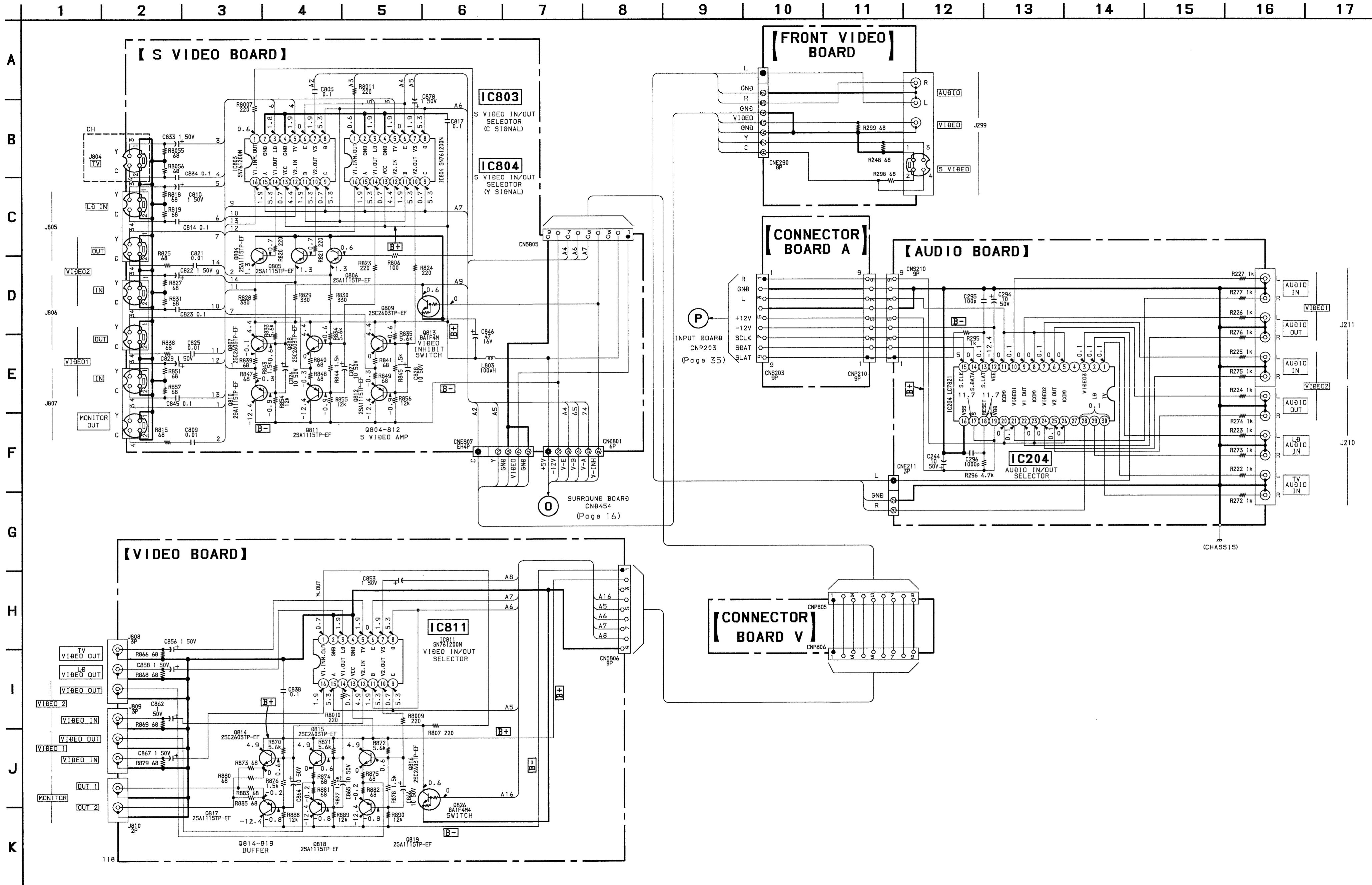
2-3. SCHEMATIC DIAGRAM – DISPLAY/SURROUND Section –



**Note on Printed Wiring Boards:**

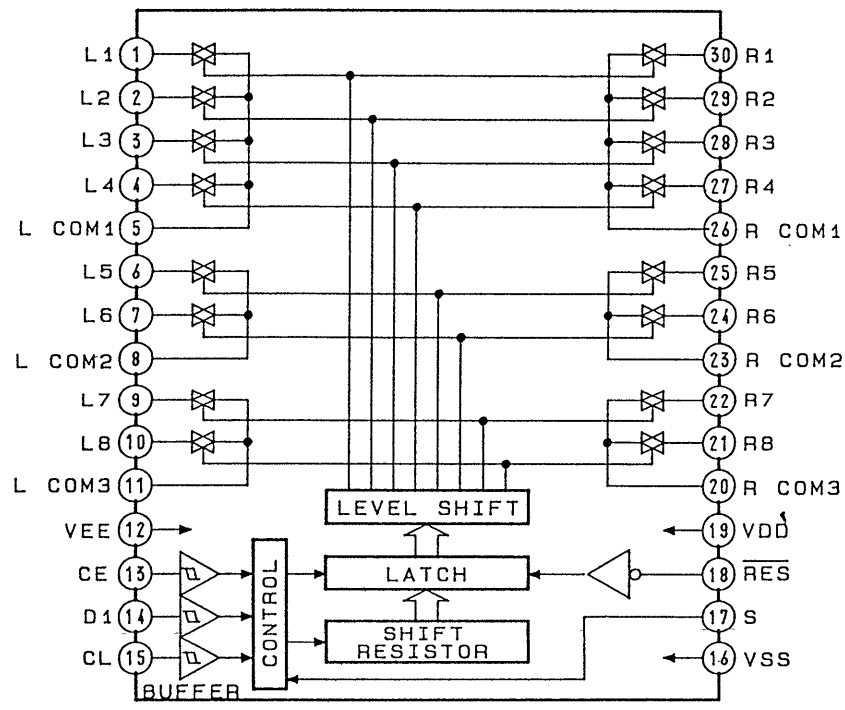
-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
-  : Pattern from the side which enables seeing.
- Abbreviation  
 AUS : Australian  
 CH : Chines

2-5. SCHEMATIC DIAGRAM – VIDEO Section –

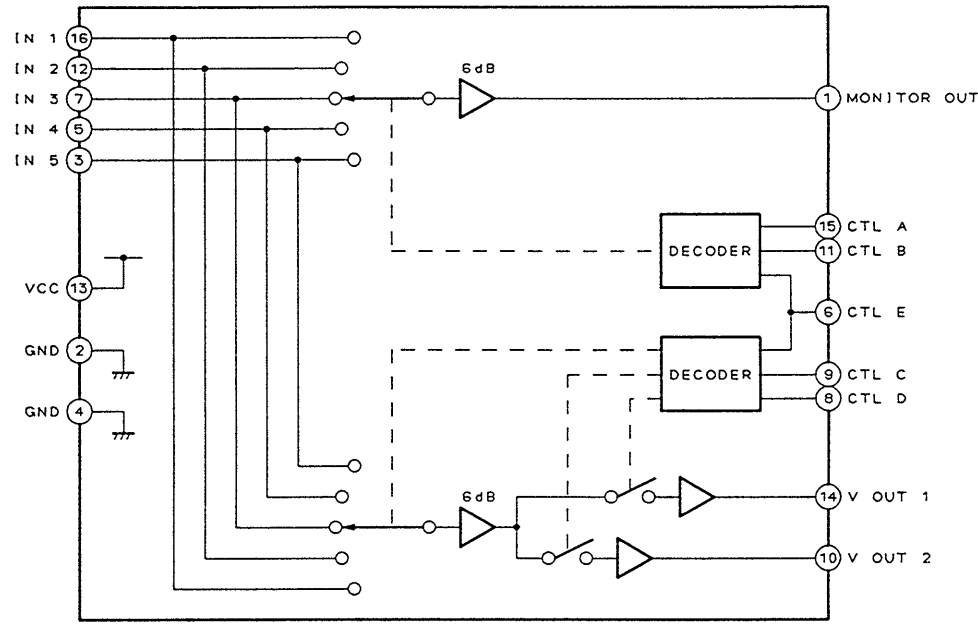


• IC Block Diagrams

IC204 LC7821



IC803, 804, 811 SN761200N



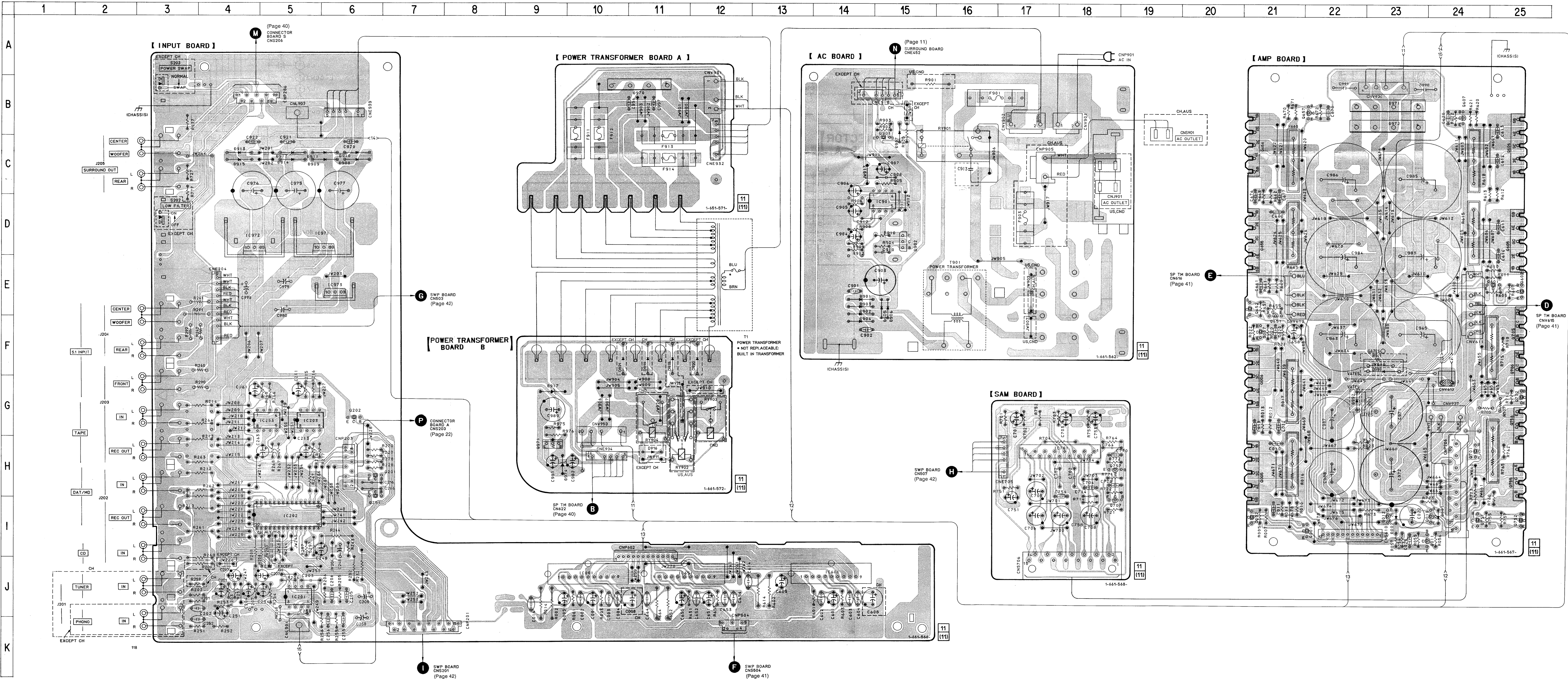
Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}$  W or less unless otherwise specified.
- $\square$  : panel designation.
- $\square$  : B + Line.
- $\square$  : B - Line.
- Voltages 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.
- Signal path.
- $\square$  : FM
- Abbreviation
- AUS : Australian
- CH : Chinese

2-6. PRINTED WIRING BOARDS – MAIN Section – • See page 8 for Circuit Boards Location.

• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D001     | I-24     | IC971    | D-6      |
| D002     | I-23     | IC972    | D-4      |
| D901     | E-14     | IC973    | E-6      |
| D902     | E-14     |          |          |
| D903     | E-14     | 0001     | I-22     |
| D904     | F-14     | 0002     | I-21     |
| D905     | E-15     | 0005     | H-21     |
| D906     | E-15     | 0006     | F-21     |
| D907     | C-15     | 0007     | F-21     |
| D908     | C-6      | 0010     | I-24     |
| D909     | C-6      | 0011     | I-24     |
| D910     | C-6      | 0012     | I-23     |
| D911     | C-6      | 0012     | H-6      |
| D912     | C-5      | 0202     | G-6      |
| D913     | C-4      | 0251     | I-6      |
| D914     | C-5      | 0601     | E-25     |
| D915     | C-4      | 0602     | E-25     |
| D916     | H-11     | 0605     | D-25     |
| D917     | G-9      | 0606     | C-25     |
| D918     | F-11     | 0607     | B-24     |
| D919     | F-11     | 0651     | E-21     |
| D920     | F-12     | 0652     | E-21     |
| D921     | F-10     | 0655     | D-21     |
| D971     | B-23     | 0656     | C-21     |
| D972     | B-23     | 0657     | B-22     |
| D974     | H-9      | 0701     | H-24     |
| D991     | F-23     | 0702     | G-25     |
| D992     | G-22     | 0705     | F-25     |
| D970     | B-11     | 0706     | F-25     |
|          |          | 0707     | I-18     |
| IC001    | J-10     | 0751     | I-24     |
| IC201    | J-5      | 0752     | I-25     |
| IC202    | I-5      | 0755     | H-25     |
| IC203    | G-5      | 0756     | G-25     |
| IC253    | G-5      | 0757     | H-18     |
| IC601    | J-14     | 0901     | C-15     |
| IC651    | J-11     | 0902     | D-15     |
| IC701    | H-18     | 0971     | H-9      |
| IC901    | D-15     |          |          |



Note on Schematic Diagram:

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

Note:

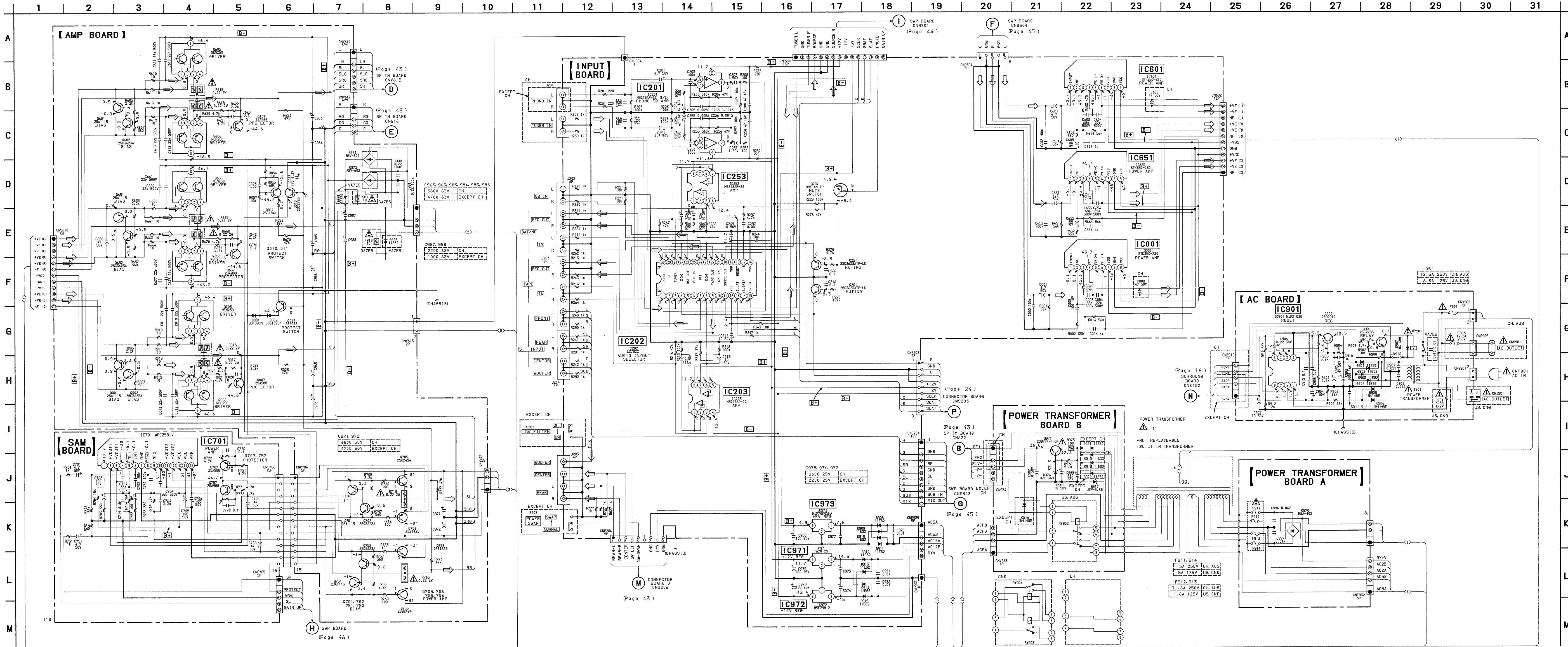
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Note:

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

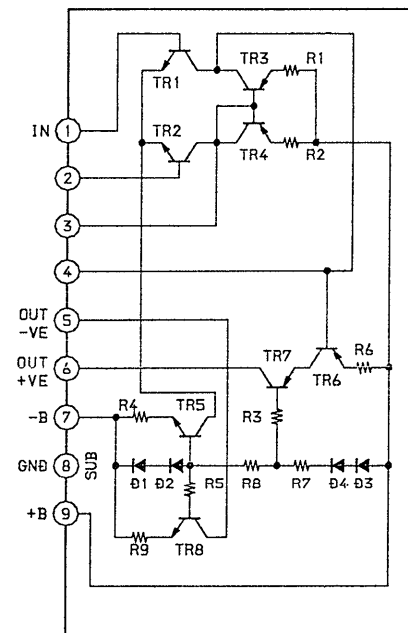
- $\square$  : B + Line.
- $\square$  : B - Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions, no mark : FM.
- Voltages are taken with a VOM (input impedance 10  $\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\square$  : FM.
- Abbreviation  
AUS : Australian  
CH : Chinese  
CND : Canadian

2-7. SCHEMATIC DIAGRAM - MAIN Section -

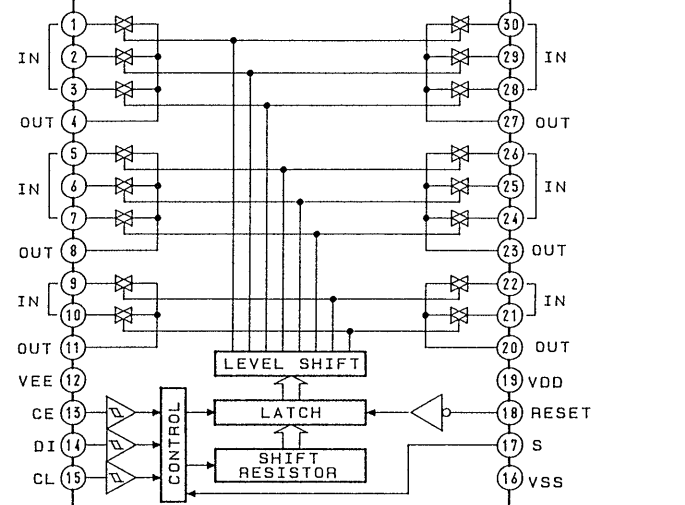


IC Block Diagrams

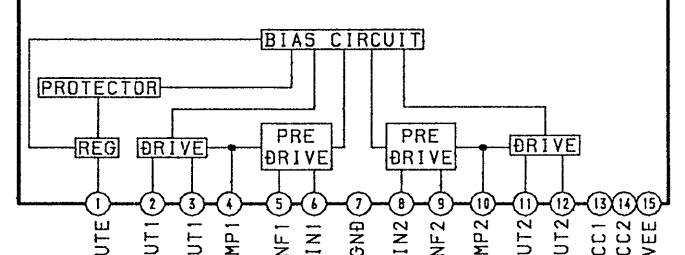
IC001, 601, 651 STK350-230



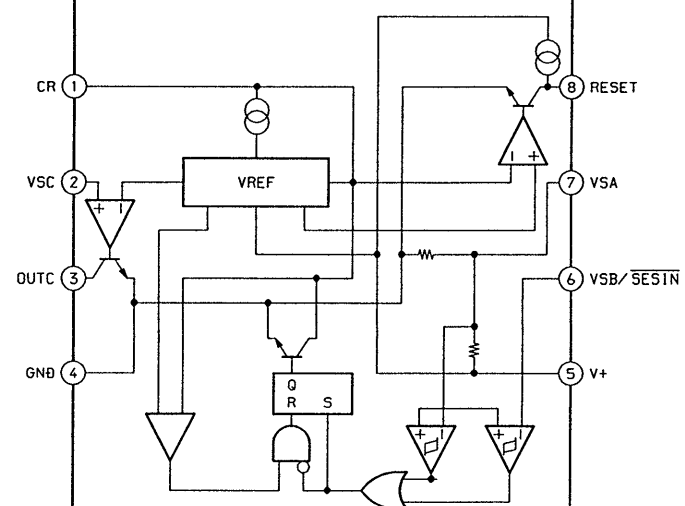
IC202 LC7822



IC701  $\mu\text{PC2581V}$

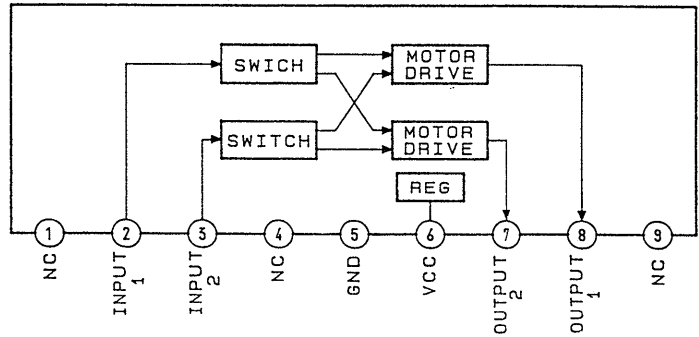


IC901 NJM2103D

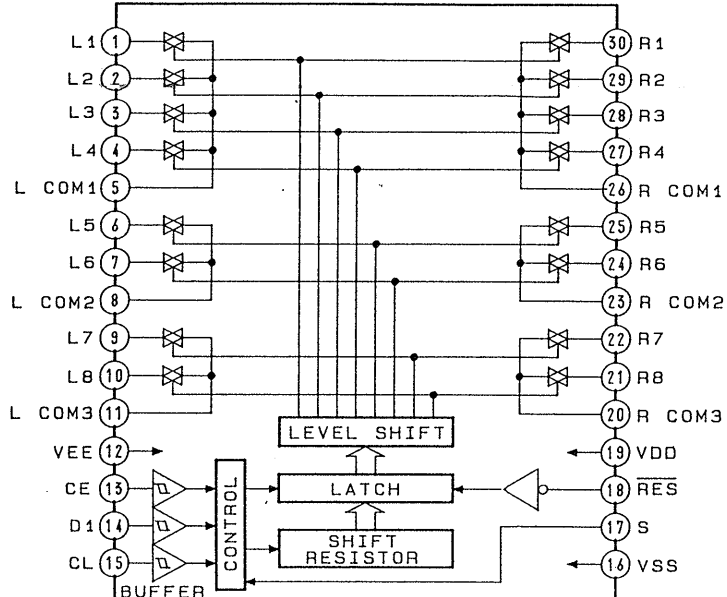


• IC Block Diagrams

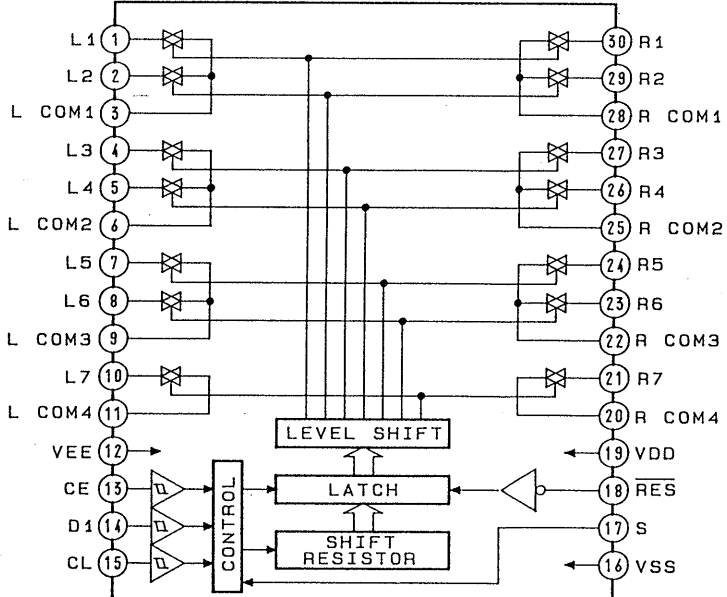
IC104 BA6208



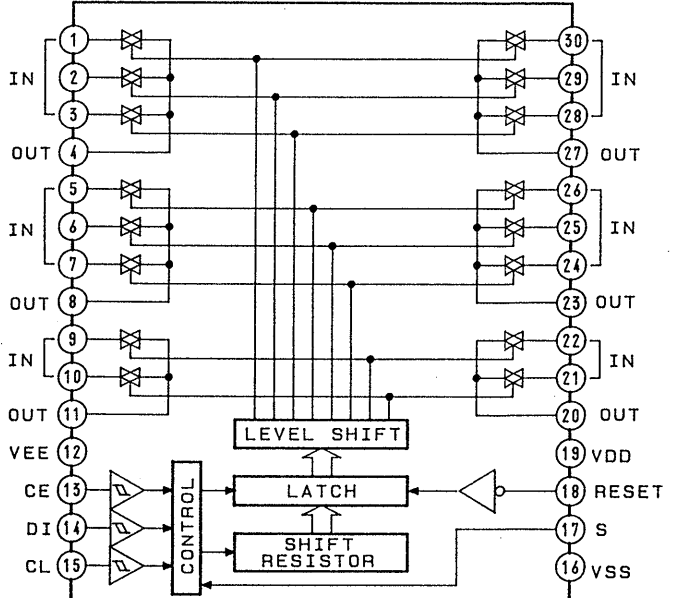
IC501 LC7821



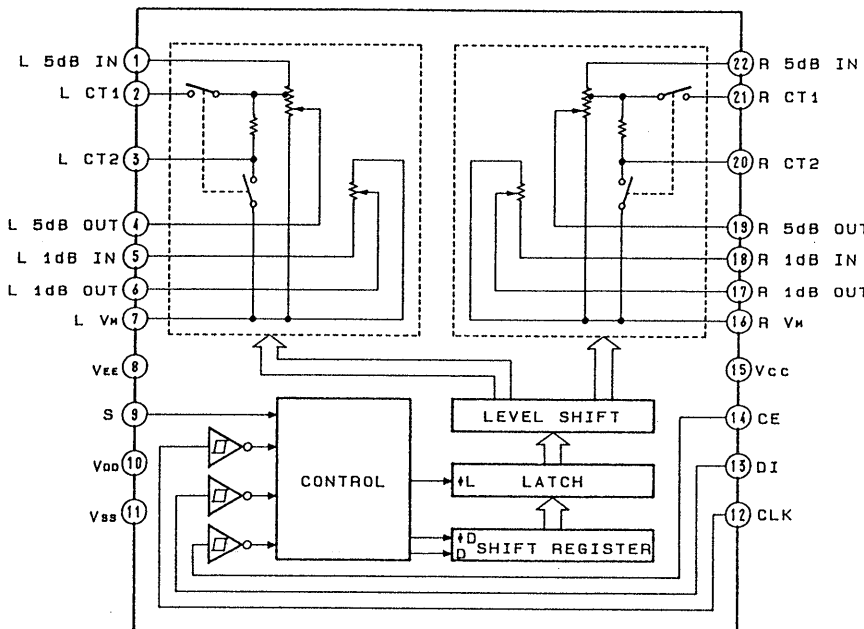
IC502 LC7823



IC509 LC7822



IC506 LC7535



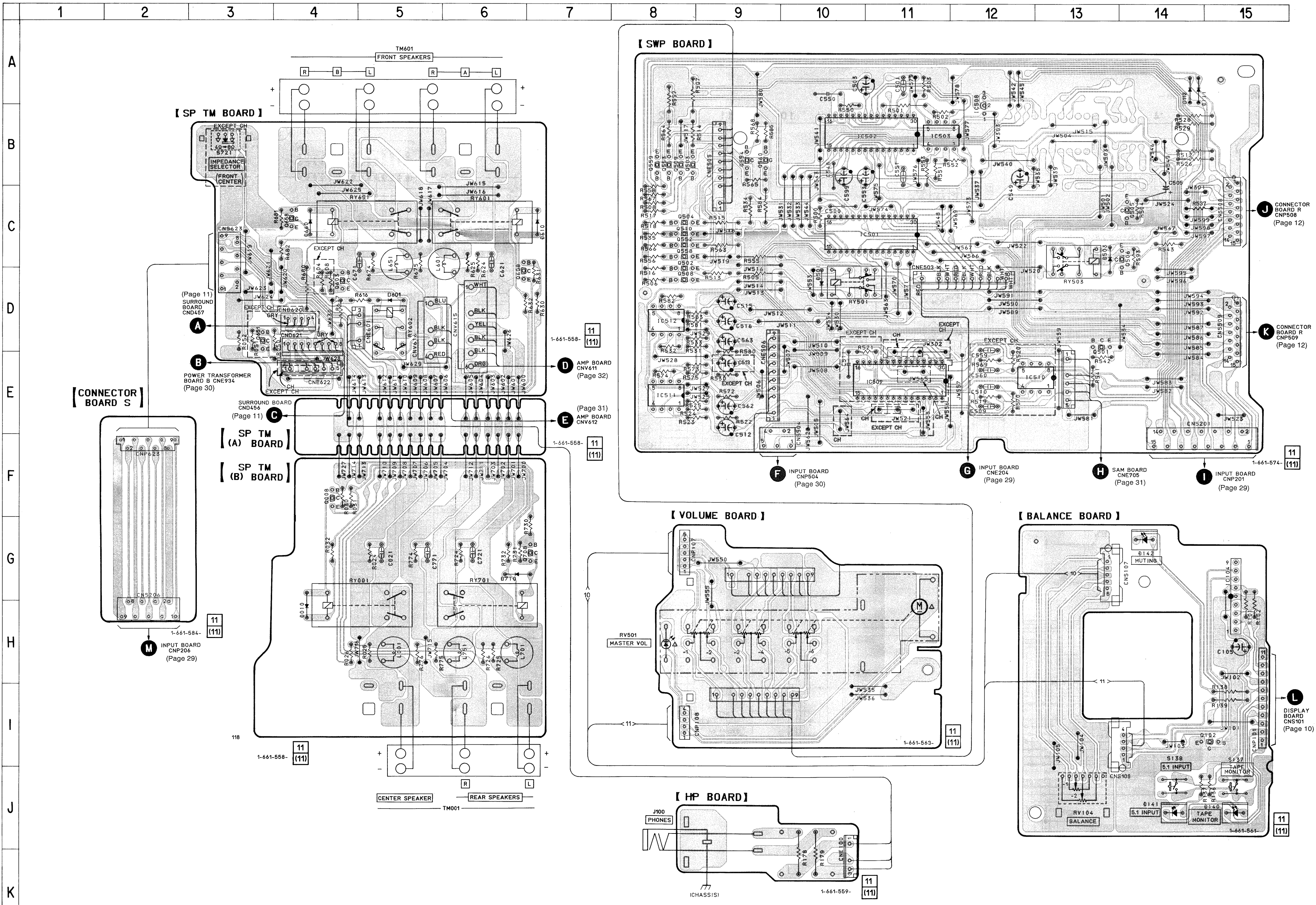
• Semiconductor Location

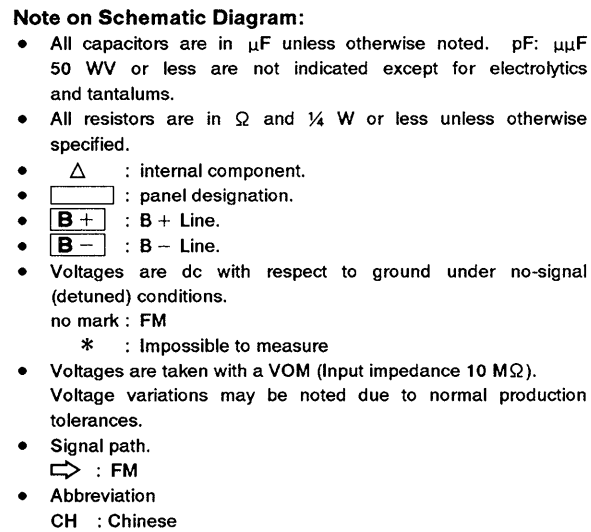
| Ref. No. | Location |
|----------|----------|
| D010     | H-4      |
| D111     | A-14     |
| D112     | A-14     |
| D140     | J-15     |
| D141     | J-14     |
| D142     | G-14     |
| D501     | D-10     |
| D503     | C-13     |
| D601     | D-5      |
| D610     | C-7      |
| D660     | C-4      |
| D710     | G-6      |
| IC104    | G-15     |
| IC501    | C-11     |
| IC502    | B-11     |
| IC503    | B-11     |
| IC508    | B-12     |
| IC509    | E-11     |
| IC510    | E-13     |
| IC511    | E-8      |
| IC512    | D-8      |
| Q008     | F-4      |
| Q102     | I-15     |
| Q501     | D-13     |
| Q502     | D-8      |
| Q503     | B-8      |
| Q504     | C-8      |
| Q505     | C-14     |
| Q506     | C-14     |
| Q508     | D-8      |
| Q509     | B-8      |
| Q510     | C-8      |
| Q552     | C-8      |
| Q553     | B-8      |
| Q554     | B-9      |
| Q558     | C-8      |
| Q559     | B-8      |
| Q560     | B-9      |
| Q603     | D-4      |
| Q608     | D-6      |
| Q651     | D-3      |
| Q658     | C-4      |
| Q708     | G-7      |

Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.
- Abbreviation
- CH : Chinese

2-8. PRINTED WIRING BOARDS – SUB Section – • See page 8 for Circuit Boards Location.





## SECTION 3 EXPLODED VIEWS

### NOTE:

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

↑  
Parts Color

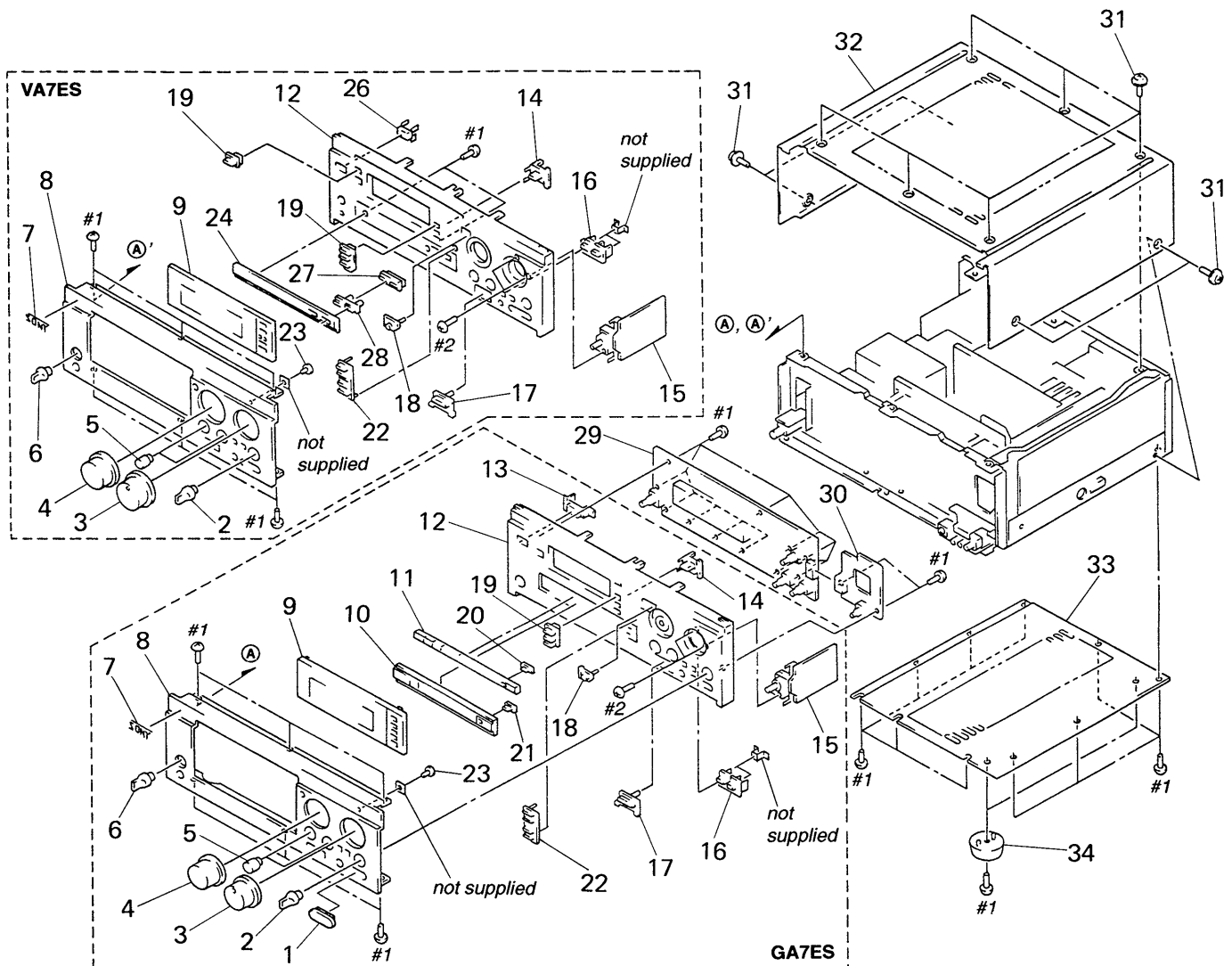
↑  
Cabinet's Color
- Abbreviation  
CND : Canadian  
CH : Chinese

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

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

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

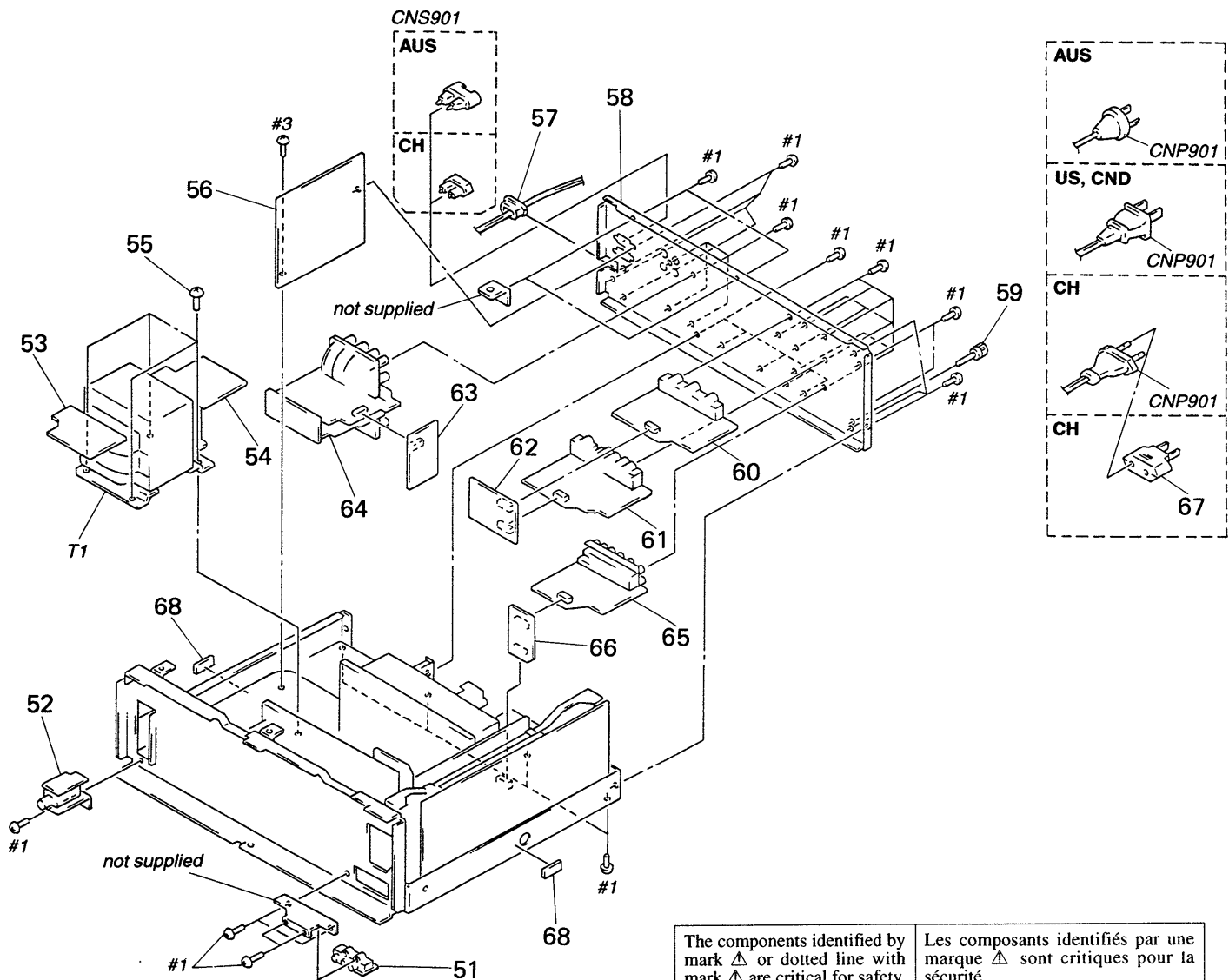
### (1) CASE, FRONT PANEL SECTION



| Ref. No. | Part No.     | Description                       | Remark |
|----------|--------------|-----------------------------------|--------|
| 1        | 4-982-083-01 | COVER (V3) (GA7ES)                |        |
| 2        | 4-982-074-01 | KNOB (R19-B) (BLACK) (GA7ES)      |        |
| 2        | 4-982-074-11 | KNOB (R19-B) (GOLD) (VA7ES)       |        |
| 3        | X-4947-139-1 | KNOB (R48F) ASSY (BLACK) (GA7ES)  |        |
| 3        | X-4947-139-2 | KNOB (R48F) ASSY (GOLD) (VA7ES)   |        |
| 4        | X-4947-140-1 | KNOB (R48V) ASSY (BLACK) (GA7ES)  |        |
| 4        | X-4947-140-2 | KNOB (R48V) ASSY (GOLD) (VA7ES)   |        |
| 5        | 4-982-073-01 | KNOB (R19-A) (BLACK) (GA7ES)      |        |
| 5        | 4-982-073-11 | KNOB (R19-A) (GOLD) (VA7ES)       |        |
| 6        | 4-957-383-01 | KNOB (F14) (BLACK) (GA7ES)        |        |
| 6        | 4-957-383-11 | KNOB (F14) (GOLD) (VA7ES)         |        |
| 7        | 4-942-568-01 | EMBLEM (NO. 5), SONY (GA7ES)      |        |
| 7        | 4-942-568-21 | EMBLEM (NO. 5), SONY (VA7ES)      |        |
| 8        | 4-982-093-21 | PANEL (E4), FRONT (BLACK) (GA7ES) |        |
| 8        | 4-982-093-61 | PANEL (E4), FRONT (GOLD) (VA7ES)  |        |
| 9        | 4-982-084-11 | PLATE (E4), INDICATION (GA7ES)    |        |
| 9        | 4-982-084-31 | PLATE (E4), INDICATION (VA7ES)    |        |
| 10       | 4-982-076-01 | BUTTON (B) (GA7ES)                |        |
| 11       | 4-982-075-01 | BUTTON (A) (GA7ES)                |        |
| 12       | 4-982-270-01 | BASE (E4), PANEL (BLACK) (GA7ES)  |        |
| 12       | 4-982-270-21 | BASE (E4), PANEL (GOLD) (VA7ES)   |        |
| 13       | 4-979-936-01 | BUTTON (P-T) (BLACK) (GA7ES)      |        |
| 14       | 4-982-080-01 | BUTTON (F)                        |        |
| * 15     | 1-661-563-11 | VOLUME BOARD                      |        |
| 16       | 4-982-077-01 | BUTTON (C) (BLACK) (GA7ES)        |        |

| Ref. No. | Part No.     | Description                             | Remark |
|----------|--------------|-----------------------------------------|--------|
| 16       | 4-982-077-11 | BUTTON (C) (GOLD) (VA7ES)               |        |
| 17       | 4-982-078-01 | BUTTON (D) (BLACK) (GA7ES)              |        |
| 17       | 4-982-078-11 | BUTTON (D) (GOLD) (VA7ES)               |        |
| 18       | 4-982-081-01 | BUTTON (G) (BLACK) (GA7ES)              |        |
| 18       | 4-982-081-11 | BUTTON (G) (GOLD) (VA7ES)               |        |
| 19       | 4-982-271-01 | INDICATOR (M)                           |        |
| 20       | 4-982-272-01 | INDICATOR (A) (GA7ES)                   |        |
| 21       | 4-982-273-01 | INDICATOR (B) (GA7ES)                   |        |
| 22       | 4-982-079-01 | BUTTON (E)                              |        |
| 23       | 4-938-518-01 | INDICATOR (C)                           |        |
| 24       | X-4947-276-1 | ESCUTCHEON (G) ASSY (GOLD) (VA7ES)      |        |
| 26       | 4-980-109-11 | BUTTON (P-M) (GOLD) (VA7ES)             |        |
| 27       | 4-982-274-01 | INDICATOR (C) (VA7ES)                   |        |
| 28       | 4-982-085-22 | BUTTON (M) (BASS BOOST) (GOLD) (VA7ES)  |        |
| 28       | 4-982-085-32 | BUTTON (M) (DIRECT PASS) (GOLD) (VA7ES) |        |
| * 29     | A-4390-391-A | DISPLAY BOARD, COMPLETE (US, CND)       |        |
| * 29     | A-4390-393-A | DISPLAY BOARD, COMPLETE (AUS)           |        |
| * 29     | A-4390-404-A | DISPLAY BOARD, COMPLETE (CH)            |        |
| * 30     | 1-661-561-11 | BALANCE BOARD                           |        |
| 31       | 3-704-366-01 | SCREW (CASE) (M3X8)                     |        |
| * 32     | 4-982-090-01 | CASE (414538E) (BLACK) (GA7ES)          |        |
| * 32     | 4-982-090-21 | CASE (414538E) (GOLD) (VA7ES)           |        |
| * 33     | 4-966-115-21 | BOARD (385), BOTTOM                     |        |
| 34       | X-4947-325-1 | FOOT (50175) ASSY                       |        |

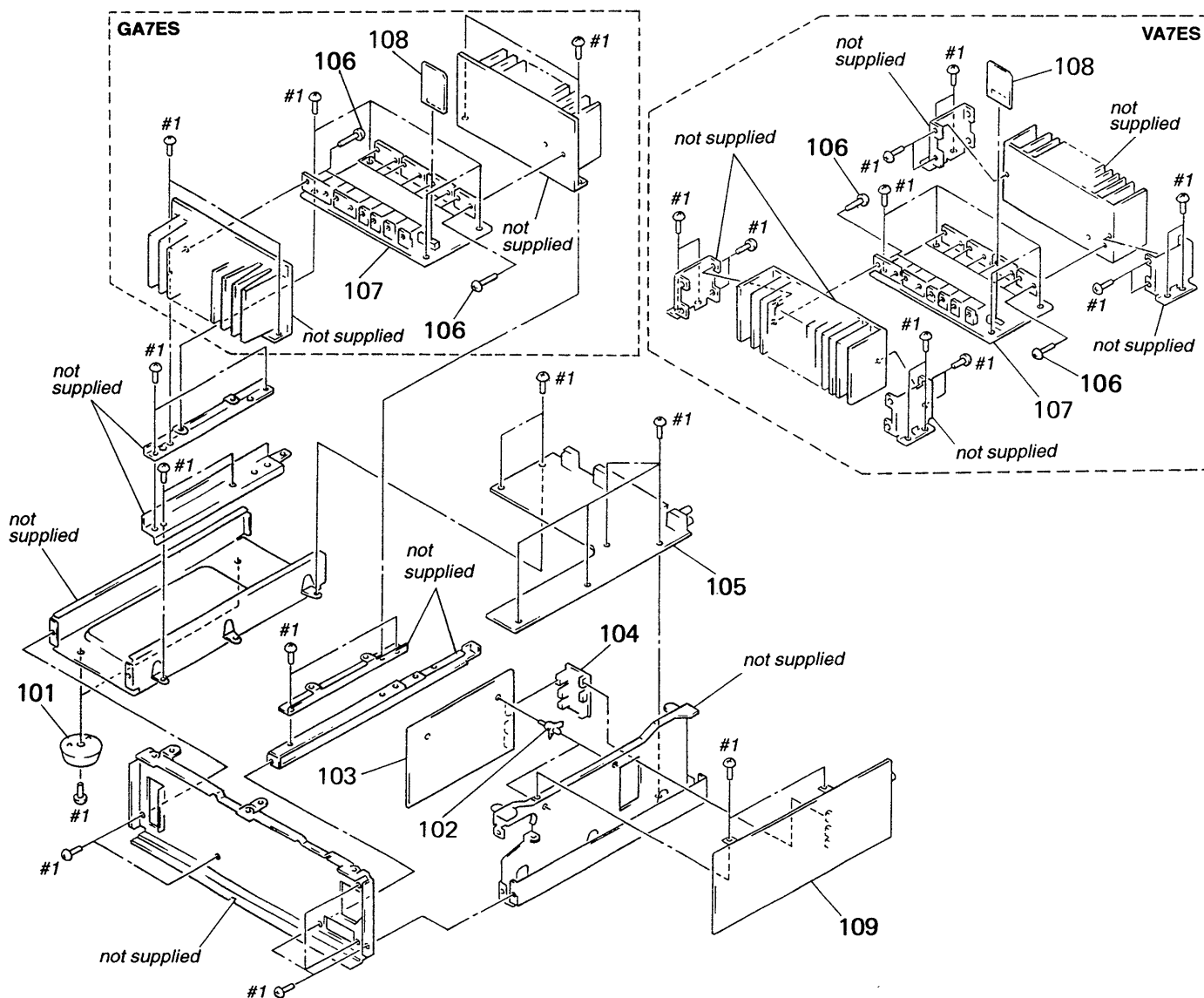
## (2) CHASSIS SECTION-1



| Ref. No. | Part No.     | Description                  | Remark |
|----------|--------------|------------------------------|--------|
| * 51     | 1-661-560-11 | FRONT VIDEO BOARD            |        |
| * 52     | 1-661-559-11 | HP BOARD                     |        |
| * 53     | 1-661-572-11 | POWER TRANSFORMER B BOARD    |        |
| * 54     | 1-661-571-11 | POWER TRANSFORMER A BOARD    |        |
| 55       | 4-381-962-11 | SCREW +BVTT 4X8 (S)          |        |
| * 56     | A-4390-361-A | AC BOARD, COMPLETE (US, CND) |        |
| * 56     | A-4390-386-A | AC BOARD, COMPLETE (CH)      |        |
| * 56     | A-4390-395-A | AC BOARD, COMPLETE (AUS)     |        |
| * 57     | 3-703-244-00 | BUSHING (2104), CORD         |        |
| * 58     | 4-982-091-61 | PANEL, BACK (US)             |        |
| * 58     | 4-982-091-71 | PANEL, BACK (CND)            |        |
| * 58     | 4-982-091-81 | PANEL, BACK (AUS)            |        |
| * 58     | 4-982-092-31 | PANEL, BACK (CH)             |        |
| 59       | 4-947-010-01 | SCREW, FEEDER FIXED          |        |
| * 60     | A-4390-398-A | S VIDEO BOARD, COMPLETE      |        |
| * 61     | A-4390-923-A | VIDEO BOARD, COMPLETE        |        |
| * 62     | 1-661-582-11 | CONNECTOR V BOARD            |        |

| Ref. No.        | Part No.     | Description                       | Remark |
|-----------------|--------------|-----------------------------------|--------|
| * 63            | 1-661-584-11 | CONNECTOR S BOARD                 |        |
| * 64            | A-4390-924-A | SP TM BOARD, COMPLETE (EXCEPT CH) |        |
| * 64            | A-4390-925-A | SP TM BOARD, COMPLETE (CH)        |        |
| * 65            | A-4390-364-A | AUDIO BOARD, COMPLETE             |        |
| * 66            | 1-661-583-11 | CONNECTOR A BOARD                 |        |
| $\Delta$ 67     | 1-569-008-21 | ADAPTOR, CONVERSION 2P (CH)       |        |
| 68              | 4-985-642-01 | CUSHION                           |        |
| $\Delta$ CNP901 | 1-690-608-11 | CORD, POWER (AUS)                 |        |
| $\Delta$ CNP901 | 1-769-743-11 | CORD, POWER (US, CND)             |        |
| $\Delta$ CNP901 | 1-776-095-11 | CORD, POWER (CH)                  |        |
| $\Delta$ CNS901 | 1-251-078-11 | OUTLET, AC. (AUS)                 |        |
| $\Delta$ CNS901 | 1-526-794-11 | OUTLET, AC (CH)                   |        |
| $\Delta$ T1     | 1-429-589-11 | TRANSFORMER, POWER (US)           |        |
| $\Delta$ T1     | 1-429-590-11 | TRANSFORMER, POWER (AUS)          |        |
| $\Delta$ T1     | 1-429-594-11 | TRANSFORMER, POWER (CH)           |        |
| $\Delta$ T1     | 1-429-596-11 | TRANSFORMER, POWER (CND)          |        |

### (3) CHASSIS SECTION-2



| Ref. No. | Part No.     | Description                       | Remark |
|----------|--------------|-----------------------------------|--------|
| 101      | X-4947-325-1 | FOOT (50175) ASSY                 |        |
| * 102    | 3-703-353-01 | SUPPORT, PC BOARD                 |        |
| * 103    | A-4390-868-A | SWP BOARD, COMPLETE (CH)          |        |
| * 103    | A-4390-869-A | SWP BOARD, COMPLETE (EXCEPT CH)   |        |
| * 104    | 1-661-578-11 | CONNECTOR R BOARD                 |        |
| * 105    | A-4390-389-A | INPUT BOARD, COMPLETE (EXCEPT CH) |        |
| * 105    | A-4390-408-A | INPUT BOARD, COMPLETE (CH)        |        |

| Ref. No. | Part No.     | Description                        | Remark |
|----------|--------------|------------------------------------|--------|
| 106      | 3-905-609-01 | SCREW (TRANSISTOR)                 |        |
| * 107    | A-4390-390-A | AMP BOARD, COMPLETE (EXCEPT CH)    |        |
| * 107    | A-4390-403-A | AMP BOARD, COMPLETE (CH)           |        |
| * 108    | A-4390-351-A | SAM BOARD, COMPLETE                |        |
| * 109    | A-4390-392-A | SURROUND BOARD, COMPLETE (US, CND) |        |
| * 109    | A-4390-405-A | SURROUND BOARD, COMPLETE (CH)      |        |
| * 109    | A-4390-492-A | SURROUND BOARD, COMPLETE (AUS)     |        |

# SECTION 4 ELECTRICAL PARTS LIST

AC

## NOTE:

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

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

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

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

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

| Ref. No.        | Part No.     | Description                              | Remark           |
|-----------------|--------------|------------------------------------------|------------------|
| *               | A-4390-361-A | AC BOARD, COMPLETE (US, CND)             |                  |
| *               | A-4390-395-A | AC BOARD, COMPLETE (AUS)                 |                  |
| *               | A-4390-386-A | AC BOARD, COMPLETE (CH)                  |                  |
|                 |              | *****                                    |                  |
|                 | 1-533-399-31 | HOLDER, FUSE                             |                  |
|                 |              | < CAPACITOR >                            |                  |
| C901            | 1-164-097-11 | CERAMIC 0.022uF                          | 50V              |
| C902            | 1-164-097-11 | CERAMIC 0.022uF                          | 50V              |
| C903            | 1-126-942-61 | ELECT 1000uF                             | 20% 16V          |
| C904            | 1-124-903-11 | ELECT 1uF                                | 20% 50V          |
| C905            | 1-124-902-00 | ELECT 0.47uF                             | 20% 50V          |
| C906            | 1-124-464-11 | ELECT 0.22uF                             | 20% 50V          |
| C907            | 1-124-907-11 | ELECT 10uF                               | 20% 50V          |
| C908            | 1-164-159-11 | CERAMIC 0.1uF                            | 50V              |
| C910            | 1-164-159-11 | CERAMIC 0.1uF                            | 50V              |
| C911            | 1-164-159-11 | CERAMIC 0.1uF                            | 50V              |
| C912            | 1-164-159-11 | CERAMIC 0.1uF                            | 50V              |
| C913            | 1-113-939-51 | CERAMIC 0.01uF                           | 99% 125V (VA7ES) |
|                 |              | < CONNECTOR >                            |                  |
| CNE910          | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P         | (EXCEPT CH)      |
| CNE910          | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P         | (CH)             |
|                 |              | < OUTLET >                               |                  |
| $\Delta$ CNJ901 | 1-540-060-11 | OUTLET, AC (POLAR) (AC OUTLET) (US, CND) |                  |
|                 |              | < CONNECTOR >                            |                  |
| CNP905          | 1-774-108-11 | PIN, CONNECTOR (PC BOARD) (CH, AUS)      |                  |
|                 |              | < OUTLET >                               |                  |
| $\Delta$ CNS901 | 1-251-078-11 | OUTLET, AC (AC OUTLET) (AUS)             |                  |

| Ref. No.        | Part No.     | Description                            | Remark    |
|-----------------|--------------|----------------------------------------|-----------|
| $\Delta$ CNS901 | 1-526-794-11 | OUTLET, AC (AC OUTLET) (CH)            |           |
|                 |              | < CONNECTOR >                          |           |
| CNV901          | 1-564-321-00 | PIN, CONNECTOR 2P                      |           |
| * CNV902        | 1-565-792-11 | PIN, CONNECTOR 2P                      |           |
|                 |              | < DIODE >                              |           |
| D901            | 8-719-024-99 | DIODE 11ES2-NTA2B                      |           |
| D902            | 8-719-024-99 | DIODE 11ES2-NTA2B                      |           |
| D903            | 8-719-024-99 | DIODE 11ES2-NTA2B                      |           |
| D904            | 8-719-024-99 | DIODE 11ES2-NTA2B                      |           |
| D905            | 8-719-987-63 | DIODE 1N4148M                          |           |
| D906            | 8-719-987-63 | DIODE 1N4148M                          |           |
| D907            | 8-719-987-63 | DIODE 1N4148M                          |           |
|                 |              | < FUSE >                               |           |
| $\Delta$ F901   | 1-532-748-11 | FUSE, GLASS TUBE (6.3A 125V) (US, CND) |           |
| $\Delta$ F901   | 1-532-464-51 | FUSE, TIME LAG (2.5A 250V) (CH, AUS)   |           |
| $\Delta$ F903   | 1-532-464-51 | FUSE, TIME LAG (2.5A 250V) (CH, AUS)   |           |
|                 |              | < IC >                                 |           |
| IC901           | 8-759-333-83 | IC NJM2103D                            |           |
|                 |              | < TRANSISTOR >                         |           |
| Q901            | 8-729-119-79 | TRANSISTOR 2SC2785-FEK                 |           |
| Q902            | 8-729-209-15 | TRANSISTOR 2SD2012                     |           |
|                 |              | < RESISTOR >                           |           |
| R900            | 1-249-393-11 | CARBON 10 5% 1/4W                      |           |
| $\Delta$ R901   | 1-202-725-00 | SOLID 3.3M 10% 1/2W F                  | (US, CND) |
| R902            | 1-249-429-11 | CARBON 10K 5% 1/4W                     |           |
| R903            | 1-249-425-11 | CARBON 4.7K 5% 1/4W                    |           |
| R904            | 1-249-417-11 | CARBON 1K 5% 1/4W                      |           |

| Ref. No.        | Part No.     | Description                     | Remark |     |      |
|-----------------|--------------|---------------------------------|--------|-----|------|
| R905            | 1-249-428-11 | CARBON                          | 8.2K   | 5%  | 1/4W |
| R906            | 1-249-421-11 | CARBON                          | 2.2K   | 5%  | 1/4W |
| R908            | 1-249-433-11 | CARBON                          | 22K    | 5%  | 1/4W |
| R909            | 1-249-439-11 | CARBON                          | 68K    | 5%  | 1/4W |
| R910            | 1-249-437-11 | CARBON                          | 47K    | 5%  | 1/4W |
| R912            | 1-249-430-11 | CARBON                          | 12K    | 5%  | 1/4W |
| < RELAY >       |              |                                 |        |     |      |
| △RY901          | 1-515-999-11 | RELAY, POWER                    |        |     |      |
| < TRANSFORMER > |              |                                 |        |     |      |
| △T901           | 1-450-361-11 | TRANSFORMER, POWER (US, CND)    |        |     |      |
| △T901           | 1-450-358-11 | TRANSFORMER, POWER (CH, AUS)    |        |     |      |
| *****           |              |                                 |        |     |      |
| *               | A-4390-390-A | AMP BOARD, COMPLETE (EXCEPT CH) |        |     |      |
| *               | A-4390-403-A | AMP BOARD, COMPLETE (CH)        |        |     |      |
| *****           |              |                                 |        |     |      |
| < CAPACITOR >   |              |                                 |        |     |      |
| C010            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C011            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C012            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C013            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C020            | 1-136-165-00 | FILM                            | 0.1uF  | 5%  | 50V  |
| C022            | 1-126-941-11 | ELECT                           | 470uF  | 20% | 6.3V |
| C023            | 1-136-169-00 | FILM                            | 0.22uF | 5%  | 50V  |
| C610            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C611            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C612            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C613            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C620            | 1-136-165-00 | FILM                            | 0.1uF  | 5%  | 50V  |
| C658            | 1-124-910-11 | ELECT                           | 47uF   | 20% | 50V  |
| (EXCEPT CH)     |              |                                 |        |     |      |
| C658            | 1-126-051-11 | ELECT                           | 47uF   | 20% | 50V  |
| (CH)            |              |                                 |        |     |      |
| C660            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C661            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C670            | 1-136-165-00 | FILM                            | 0.1uF  | 5%  | 50V  |
| C676            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C677            | 1-107-597-11 | CERAMIC                         | 22PF   | 10% | 500V |
| C963            | 1-117-184-11 | ELECT                           | 4700uF | 99% | 63V  |
| (EXCEPT CH)     |              |                                 |        |     |      |
| C963            | 1-115-569-11 | ELECT                           | 5600uF | 20% | 63V  |
| (CH)            |              |                                 |        |     |      |
| C965            | 1-117-184-11 | ELECT                           | 4700uF | 99% | 63V  |
| (EXCEPT CH)     |              |                                 |        |     |      |
| C965            | 1-115-569-11 | ELECT                           | 5600uF | 20% | 63V  |
| (CH)            |              |                                 |        |     |      |

| Ref. No.      | Part No.     | Description               | Remark              |     |                    |
|---------------|--------------|---------------------------|---------------------|-----|--------------------|
| C971          | 1-126-138-11 | ELECT                     | 4700uF              | 20% | 50V<br>(EXCEPT CH) |
| C971          | 1-115-571-11 | ELECT                     | 6800uF              | 20% | 50V<br>(CH)        |
| C972          | 1-126-138-11 | ELECT                     | 4700uF              | 20% | 50V<br>(EXCEPT CH) |
| C972          | 1-115-571-11 | ELECT                     | 6800uF              | 20% | 50V<br>(CH)        |
| C983          | 1-117-184-11 | ELECT                     | 4700uF              | 99% | 63V<br>(EXCEPT CH) |
| C983          | 1-115-569-11 | ELECT                     | 5600uF              | 20% | 63V<br>(CH)        |
| C984          | 1-117-184-11 | ELECT                     | 4700uF              | 99% | 63V<br>(EXCEPT CH) |
| C984          | 1-115-569-11 | ELECT                     | 5600uF              | 20% | 63V<br>(CH)        |
| C985          | 1-117-184-11 | ELECT                     | 4700uF              | 99% | 63V<br>(EXCEPT CH) |
| C985          | 1-115-569-11 | ELECT                     | 5600uF              | 20% | 63V<br>(CH)        |
| C986          | 1-117-184-11 | ELECT                     | 4700uF              | 99% | 63V<br>(EXCEPT CH) |
| C986          | 1-115-569-11 | ELECT                     | 5600uF              | 20% | 63V<br>(CH)        |
| C987          | 1-124-922-11 | ELECT                     | 1000uF              | 20% | 63V<br>(EXCEPT CH) |
| C987          | 1-113-686-11 | ELECT                     | 2200uF              | 20% | 63V<br>(CH)        |
| C988          | 1-124-922-11 | ELECT                     | 1000uF              | 20% | 63V<br>(EXCEPT CH) |
| C988          | 1-113-686-11 | ELECT                     | 2200uF              | 20% | 63V<br>(CH)        |
| C990          | 1-106-228-00 | MYLAR                     | 0.22uF              | 5%  | 100V               |
| C991          | 1-106-228-00 | MYLAR                     | 0.22uF              | 5%  | 100V               |
| < CONNECTOR > |              |                           |                     |     |                    |
| CNP706        | 1-764-821-11 | CONNECTOR, BOARD TO BOARD |                     |     | 15P                |
| CNS610        | 1-568-672-11 | CONNECTOR, BOARD TO BOARD |                     |     | 12P                |
| CNV611        | 1-778-145-11 | PIN, CONNECTOR (PC BOARD) |                     |     | 6P                 |
| CNV612        | 1-766-897-11 | PIN, CONNECTOR (PC BOARD) |                     |     | 4P                 |
| CNV613        | 1-564-320-00 | PIN, CONNECTOR (B2P-VH)   |                     |     | 2P                 |
| CNV936        | 1-766-897-11 | PIN, CONNECTOR (PC BOARD) |                     |     | 4P                 |
| * CNV937      | 1-565-395-11 | PIN, CONNECTOR            |                     |     | 3P                 |
| < DIODE >     |              |                           |                     |     |                    |
| D001          | 8-719-815-85 | DIODE                     | 1S1585              |     |                    |
| D002          | 8-719-815-85 | DIODE                     | 1S1585              |     |                    |
| D971          | 8-719-302-38 | DIODE                     | RBV-602-01          |     |                    |
| D972          | 8-719-302-38 | DIODE                     | RBV-602-01          |     |                    |
| D991          | 8-719-024-99 | DIODE                     | 11ES2-NTA2B (VA7ES) |     |                    |

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| Ref. No.          | Part No.     | Description               | Remark |
|-------------------|--------------|---------------------------|--------|
| D992              | 8-719-024-99 | DIODE 11ES2-NTA2B (VA7ES) |        |
| < IC/TRANSISTOR > |              |                           |        |
| Q001              | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        |
| Q002              | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        |
| Q005              | 8-749-010-43 | IC NE-N250                |        |
| Q006              | 8-749-010-42 | IC NE-P250                |        |
| Q007              | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        |
| Q010              | 8-729-119-79 | TRANSISTOR 2SC2785-FEK    |        |
| Q011              | 8-729-140-84 | TRANSISTOR 2SC1841-PAFAEA |        |
| Q012              | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        |
| Q601              | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        |
| Q602              | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        |
| Q605              | 8-749-010-43 | IC NE-N250                |        |
| Q606              | 8-749-010-42 | IC NE-P250                |        |
| Q607              | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        |
| Q651              | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        |
| Q652              | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        |
| Q655              | 8-749-010-43 | IC NE-N250                |        |
| Q656              | 8-749-010-42 | IC NE-P250                |        |
| Q657              | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA  |        |
| Q701              | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        |
| Q702              | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        |
| Q705              | 8-729-026-01 | TRANSISTOR 2SD2494-OPY    |        |
| Q706              | 8-729-026-05 | TRANSISTOR 2SB1625-OPY    |        |
| Q751              | 8-729-119-76 | TRANSISTOR 2SA1175-HFE    |        |
| Q752              | 8-729-141-30 | TRANSISTOR 2SC3623A-LK    |        |
| Q755              | 8-729-026-01 | TRANSISTOR 2SD2494-OPY    |        |
| Q756              | 8-729-026-05 | TRANSISTOR 2SB1625-OPY    |        |
| < RESISTOR >      |              |                           |        |
| R005              | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   |
| R007              | 1-249-414-11 | CARBON 560 5%             | 1/4W   |
| R010              | 1-249-393-11 | CARBON 10 5%              | 1/4W   |
| R011              | 1-249-393-11 | CARBON 10 5%              | 1/4W   |
| R012              | 1-249-393-11 | CARBON 10 5%              | 1/4W   |
| R013              | 1-249-393-11 | CARBON 10 5%              | 1/4W   |
| △R016             | 1-233-352-21 | ENCAPSULATED COMPONENT    | F      |
| △R017             | 1-233-352-21 | ENCAPSULATED COMPONENT    | F      |
| R020              | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   |
| R021              | 1-249-425-11 | CARBON 4.7K 5%            | 1/4W   |
| R022              | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   |
| R023              | 1-249-437-11 | CARBON 47K 5%             | 1/4W   |
| R054              | 1-249-417-11 | CARBON 1K 5%              | 1/4W   |
| R055              | 1-249-439-11 | CARBON 68K 5%             | 1/4W   |
| R056              | 1-249-436-11 | CARBON 39K 5%             | 1/4W   |
| R057              | 1-249-429-11 | CARBON 10K 5%             | 1/4W   |
| R605              | 1-249-421-11 | CARBON 2.2K 5%            | 1/4W   |

| Ref. No.                                   | Part No.     | Description            | Remark         |
|--------------------------------------------|--------------|------------------------|----------------|
| R607                                       | 1-249-414-11 | CARBON 560 5%          | 1/4W           |
| R610                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R611                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R612                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R613                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| △R615                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| △R618                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| R620                                       | 1-249-425-11 | CARBON 4.7K 5%         | 1/4W           |
| R621                                       | 1-249-425-11 | CARBON 4.7K 5%         | 1/4W           |
| R622                                       | 1-249-421-11 | CARBON 2.2K 5%         | 1/4W           |
| R623                                       | 1-249-437-11 | CARBON 47K 5%          | 1/4W           |
| R655                                       | 1-249-421-11 | CARBON 2.2K 5%         | 1/4W           |
| R657                                       | 1-249-414-11 | CARBON 560 5%          | 1/4W           |
| R660                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R661                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R662                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| R663                                       | 1-249-393-11 | CARBON 10 5%           | 1/4W           |
| △R665                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| △R668                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| R670                                       | 1-249-425-11 | CARBON 4.7K 5%         | 1/4W           |
| R671                                       | 1-249-425-11 | CARBON 4.7K 5%         | 1/4W           |
| R672                                       | 1-249-421-11 | CARBON 2.2K 3%         | 1/4W           |
| R673                                       | 1-249-437-11 | CARBON 47K 5%          | 1/4W           |
| R705                                       | 1-249-421-11 | CARBON 2.2K 5%         | 1/4W           |
| R707                                       | 1-249-414-11 | CARBON 560 5%          | 1/4W           |
| R710                                       | 1-249-405-11 | CARBON 100 5%          | 1/4W           |
| R712                                       | 1-249-405-11 | CARBON 100 5%          | 1/4W           |
| △R715                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| R723                                       | 1-249-437-11 | CARBON 47K 5%          | 1/4W           |
| R755                                       | 1-249-421-11 | CARBON 2.2K 5%         | 1/4W           |
| R757                                       | 1-249-414-11 | CARBON 560 5%          | 1/4W           |
| R760                                       | 1-249-405-11 | CARBON 100 5%          | 1/4W           |
| R762                                       | 1-249-405-11 | CARBON 100 5%          | 1/4W           |
| △R765                                      | 1-233-352-21 | ENCAPSULATED COMPONENT | F              |
| R773                                       | 1-249-437-11 | CARBON 47K 5%          | 1/4W           |
| △R911                                      | 1-249-393-11 | CARBON 10 5%           | 1/4W F (GA7ES) |
| △R913                                      | 1-249-393-11 | CARBON 10 5%           | 1/4W F (GA7ES) |
| *****                                      |              |                        |                |
| * A-4390-364-A AUDIO BOARD, COMPLETE ***** |              |                        |                |
| < CAPACITOR >                              |              |                        |                |
| C244                                       | 1-126-048-81 | ELECT 10uF             | 20% 50V        |
| C294                                       | 1-126-048-81 | ELECT 10uF             | 20% 50V        |
| C295                                       | 1-162-282-31 | CERAMIC 100PF          | 10% 50V        |
| C296                                       | 1-162-294-31 | CERAMIC 0.001uF        | 10% 50V        |

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## AUDIO

## BALANCE

## CONNECTOR A

## CONNECTOR R

## CONNECTOR S

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

## &lt; CONNECTOR &gt;

CNE211 1-770-963-11 PIN, CONNECTOR (PCB) (V TYPE) 3P  
CNS210 1-695-093-11 SOCKET, CONNECTOR 9P

## &lt; IC &gt;

IC204 8-759-805-13 IC LC7821

## &lt; JACK &gt;

J210 1-766-394-11 JACK, PIN 6P (VIDEO 2 AUDIO OUT,  
LD AUDIO IN, TV AUDIO IN)  
J211 1-766-394-11 JACK, PIN 6P (VIDEO 1 AUDIO IN, AUDIO OUT  
, VIDEO 2 AUDIO IN)

## &lt; RESISTOR &gt;

|      |                     |    |    |      |
|------|---------------------|----|----|------|
| R222 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R223 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R224 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R225 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R226 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |

|      |                     |    |    |      |
|------|---------------------|----|----|------|
| R227 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R272 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R273 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R274 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |
| R275 | 1-249-417-11 CARBON | 1K | 5% | 1/4W |

|      |                     |      |    |      |
|------|---------------------|------|----|------|
| R276 | 1-249-417-11 CARBON | 1K   | 5% | 1/4W |
| R277 | 1-249-417-11 CARBON | 1K   | 5% | 1/4W |
| R295 | 1-249-417-11 CARBON | 1K   | 5% | 1/4W |
| R296 | 1-249-425-11 CARBON | 4.7K | 5% | 1/4W |

\*\*\*\*\*

\* 1-661-561-11 BALANCE BOARD  
\*\*\*\*\*

## &lt; CAPACITOR &gt;

|      |                    |      |     |     |
|------|--------------------|------|-----|-----|
| C105 | 1-124-907-11 ELECT | 10uF | 20% | 50V |
|------|--------------------|------|-----|-----|

## &lt; CONNECTOR &gt;

CNP101 1-766-551-11 PLUG, CONNECTOR 11P  
CNS107 1-770-398-11 HOUSING, CONNECTOR (PC BOARD) 5P  
CNS108 1-770-397-11 HOUSING, CONNECTOR (PC BOARD) 4P

## &lt; DIODE &gt;

|      |                    |                         |
|------|--------------------|-------------------------|
| D140 | 8-719-301-49 DIODE | SEL2810A (TAPE MONITOR) |
| D141 | 8-719-301-49 DIODE | SEL2810A (5.1 INPUT)    |
| D142 | 8-719-301-49 DIODE | SEL2810A (MUTING)       |

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

## &lt; IC &gt;

IC104 8-759-962-08 IC BA6208

## &lt; TRANSISTOR &gt;

Q102 8-729-900-36 TRANSISTOR DTC124ES

## &lt; RESISTOR &gt;

|      |                     |     |    |      |
|------|---------------------|-----|----|------|
| R101 | 1-249-429-11 CARBON | 10K | 5% | 1/4W |
| R102 | 1-249-429-11 CARBON | 10K | 5% | 1/4W |
| R136 | 1-249-411-11 CARBON | 330 | 5% | 1/4W |
| R137 | 1-249-411-11 CARBON | 330 | 5% | 1/4W |
| R138 | 1-249-411-11 CARBON | 330 | 5% | 1/4W |

|      |                     |     |    |      |
|------|---------------------|-----|----|------|
| R139 | 1-249-415-11 CARBON | 680 | 5% | 1/4W |
|------|---------------------|-----|----|------|

## &lt; VARIABLE RESISTOR &gt;

RV104 1-223-880-11 RES, VAR, CARBON 100K/100K (BALANCE)

## &lt; SWITCH &gt;

S137 1-554-303-21 SWITCH, TACTILE (TAPE MONITOR)  
S138 1-554-303-21 SWITCH, TACTILE (5.1 INPUT)

\*\*\*\*\*

\* 1-661-583-11 CONNECTOR A BOARD  
\*\*\*\*\*

## &lt; CONNECTOR &gt;

CNP210 1-695-088-11 PIN, CONNECTOR (PC BOARD) 9P  
CNS203 1-695-093-11 SOCKET, CONNECTOR 9P

\*\*\*\*\*

\* 1-661-578-11 CONNECTOR R BOARD  
\*\*\*\*\*

## &lt; CONNECTOR &gt;

CNP408 1-750-984-11 CONNECTOR, BOARD TO BOARD 15P  
CNP409 1-750-984-11 CONNECTOR, BOARD TO BOARD 15P  
CNP508 1-778-398-11 CONNECTOR, BOARD TO BOARD 15P  
CNP509 1-778-398-11 CONNECTOR, BOARD TO BOARD 15P

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\* 1-661-584-11 CONNECTOR S BOARD  
\*\*\*\*\*

## &lt; CONNECTOR &gt;

CNP623 1-695-088-11 PIN, CONNECTOR (PC BOARD) 9P  
CNS206 1-695-093-11 SOCKET, CONNECTOR 9P

\*\*\*\*\*

CONNECTOR V

DISPLAY

| Ref.No. | Part No.            | Description                        | Remark |
|---------|---------------------|------------------------------------|--------|
| *       | 1-661-582-11        | CONNECTOR V BOARD<br>*****         |        |
|         |                     | < CONNECTOR >                      |        |
|         | CNP805 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P       |        |
|         | CNP806 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P       |        |
|         | *****               |                                    |        |
| *       | A-4390-391-A        | DISPLAY BOARD, COMPLETE (US, CND)  |        |
| *       | A-4390-393-A        | DISPLAY BOARD, COMPLETE (AUS)      |        |
| *       | A-4390-404-A        | DISPLAY BOARD, COMPLETE (CH)       |        |
|         | *****               |                                    |        |
|         |                     | < CAPACITOR >                      |        |
|         | C101 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C102 1-124-907-11   | ELECT 10uF 20% 50V                 |        |
|         | C103 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C104 1-124-907-11   | ELECT 10uF 20% 50V                 |        |
|         | C108 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C111 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C112 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C113 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C114 1-162-286-31   | CERAMIC 220PF 10% 50V              |        |
|         | C115 1-104-905-11   | CAPACITOR 0.22F 5.5V               |        |
|         | C116 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C117 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C118 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C119 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C120 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C121 1-162-306-11   | CERAMIC 0.01uF 30% 16V             |        |
|         | C122 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C123 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C124 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         | C125 1-164-159-11   | CERAMIC 0.1uF 50V                  |        |
|         |                     | < CONNECTOR >                      |        |
| *       | CND103 1-506-503-11 | PIN, CONNECTOR 9P                  |        |
| *       | CND104 1-564-340-00 | PIN, CONNECTOR 6P                  |        |
| *       | CND105 1-564-342-11 | PIN, CONNECTOR 8P                  |        |
| *       | CND109 1-564-341-11 | PIN, CONNECTOR 7P                  |        |
| *       | CNS101 1-565-487-11 | CONNECTOR, BOARD TO BOARD 11P      |        |
|         |                     | < DIODE >                          |        |
|         | D101 8-719-313-43   | DIODE SEL6210S-TH10 (STANDBY) (CH) |        |
|         | D104 8-719-024-99   | DIODE 11ES2-NTA2B (EXCEPT CH)      |        |
|         | D115 8-719-987-63   | DIODE 1N4148M                      |        |
|         | D116 8-719-987-63   | DIODE 1N4148M                      |        |
|         | D130 8-719-987-63   | DIODE 1N4148M                      |        |
|         | D131 8-719-987-63   | DIODE 1N4148M                      |        |

| Ref.No. | Part No.     | Description                                 | Remark |
|---------|--------------|---------------------------------------------|--------|
| D132    | 8-719-987-63 | DIODE 1N4148M                               |        |
| D133    | 8-719-987-63 | DIODE 1N4148M                               |        |
| D134    | 8-719-987-63 | DIODE 1N4148M                               |        |
| D135    | 8-719-301-49 | DIODE SEL2810A (BASS BOOST) (CH)            |        |
| D136    | 8-719-301-49 | DIODE SEL2810A (DIRECT PASS) (CH)           |        |
| D137    | 8-719-301-49 | DIODE SEL2810A (INDEX)                      |        |
| D138    | 8-719-301-49 | DIODE SEL2810A (TONE)                       |        |
| D139    | 8-719-301-49 | DIODE SEL2810A (SURROUND)                   |        |
| D143    | 8-719-301-49 | DIODE SEL2810A (BASS BOOST) (EXCEPT CH)     |        |
| D144    | 8-719-301-49 | DIODE SEL2810A (DIRECT PASS)<br>(EXCEPT CH) |        |
| D151    | 8-719-987-63 | DIODE 1N4148M (AUS)                         |        |
| D153    | 8-719-987-63 | DIODE 1N4148M (AUS)                         |        |
| D154    | 8-719-987-63 | DIODE 1N4148M (AUS)                         |        |
| D155    | 8-719-987-63 | DIODE 1N4148M (CH)                          |        |
| D156    | 8-719-987-63 | DIODE 1N4148M (CH)                          |        |
|         |              | < FILTER >                                  |        |
| FL100   | 1-517-543-11 | INDICATOR TUBE, FLUORESCENT                 |        |
|         |              | < IC >                                      |        |
| IC100   | 8-759-075-35 | IC TD62C950RF                               |        |
| IC101   | 8-759-390-30 | IC MB90673PF-G-163-BND                      |        |
| IC102   | 8-749-923-11 | IC GP1U58XB                                 |        |
| IC105   | 8-759-075-35 | IC TD62C950RF                               |        |
|         |              | < COIL >                                    |        |
| L101    | 1-410-509-11 | INDUCTOR 10uH                               |        |
|         |              | < TRANSISTOR >                              |        |
| Q100    | 8-729-900-63 | TRANSISTOR DTA124ES                         |        |
| Q101    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q103    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q104    | 8-729-900-36 | TRANSISTOR DTC124ES (CH)                    |        |
| Q106    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q107    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q108    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q109    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q110    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q111    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q112    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q113    | 8-729-900-36 | TRANSISTOR DTC124ES                         |        |
| Q114    | 8-729-900-36 | TRANSISTOR DTC124ES (CH)                    |        |
|         |              | < RESISTOR >                                |        |
| R103    | 1-247-807-31 | CARBON 100 5% 1/4W                          |        |
| R104    | 1-249-425-11 | CARBON 4.7K 5% 1/4W                         |        |
| R105    | 1-249-417-11 | CARBON 1K 5% 1/4W                           |        |

# DISPLAY

| Ref. No. | Part No.     | Description | Remark |    |           |
|----------|--------------|-------------|--------|----|-----------|
| R106     | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W (CH) |
| R107     | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W      |
| R108     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W      |
| R116     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R118     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R119     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W      |
| R120     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W      |
| R121     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W      |
| R122     | 1-249-385-11 | CARBON      | 2.2    | 5% | 1/6W      |
| R123     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R124     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R125     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R126     | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W      |
| R127     | 1-249-385-11 | CARBON      | 2.2    | 5% | 1/6W      |
| R128     | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W      |
| R129     | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W      |
| R130     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R131     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R132     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R133     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R134     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R135     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R140     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R141     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R142     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R143     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R144     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R145     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R146     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R147     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R148     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R149     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R150     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R163     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R164     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R165     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R166     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R188     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R190     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R191     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R192     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |
| R193     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W      |
| R194     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R195     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R196     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R197     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W      |
| R198     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W      |
| R233     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W      |

| Ref. No.              | Part No.     | Description                                         | Remark |    |      |
|-----------------------|--------------|-----------------------------------------------------|--------|----|------|
| R234                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
| R235                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
| R236                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
| R237                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
|                       |              |                                                     |        |    |      |
| R238                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
| R239                  | 1-249-417-11 | CARBON                                              | 1K     | 5% | 1/4W |
|                       |              |                                                     |        |    |      |
| < VARIABLE RESISTOR > |              |                                                     |        |    |      |
| RV101                 | 1-467-808-21 | ENCODER, ROTARY (FUNCTION)                          |        |    |      |
| RV102                 | 1-467-809-11 | ENCODER, ROTARY<br>(PARAMETER BASS/TREBLE POSITION) |        |    |      |
| RV103                 | 1-467-809-11 | ENCODER, ROTARY<br>(LEVEL TONE LEVEL CHARACTOR)     |        |    |      |
|                       |              |                                                     |        |    |      |
| < SWITCH >            |              |                                                     |        |    |      |
|                       |              |                                                     |        |    |      |
| S100                  | 1-554-303-21 | SWITCH, TACTILE (OPC MODE)                          |        |    |      |
| S101                  | 1-554-303-21 | SWITCH, TACTILE (MEMORY) (EXCEPT CH)                |        |    |      |
| S103                  | 1-554-303-21 | SWITCH, TACTILE (INDEX +) (EXCEPT CH)               |        |    |      |
| S104                  | 1-554-303-21 | SWITCH, TACTILE (INDEX -) (EXCEPT CH)               |        |    |      |
| S105                  | 1-554-303-21 | SWITCH, TACTILE (SOUND FIELD GENRE)                 |        |    |      |
|                       |              |                                                     |        |    |      |
| S106                  | 1-554-303-21 | SWITCH, TACTILE (SOUND FIELD CTR MODE)              |        |    |      |
| S107                  | 1-554-303-21 | SWITCH, TACTILE<br>(DIRECT TUNING) (EXCEPT CH)      |        |    |      |
| S108                  | 1-554-303-21 | SWITCH, TACTILE (FM MODE) (EXCEPT CH)               |        |    |      |
| S109                  | 1-554-303-21 | SWITCH, TACTILE (PRESET +) (EXCEPT CH)              |        |    |      |
| S110                  | 1-554-303-21 | SWITCH, TACTILE (PRESET -) (EXCEPT CH)              |        |    |      |
|                       |              |                                                     |        |    |      |
| S111                  | 1-554-303-21 | SWITCH, TACTILE (SOUND FIELD MODE)                  |        |    |      |
| S112                  | 1-554-303-21 | SWITCH, TACTILE (FUNCTION MODE)                     |        |    |      |
| S113                  | 1-554-303-21 | SWITCH, TACTILE (1) (EXCEPT CH)                     |        |    |      |
| S114                  | 1-554-303-21 | SWITCH, TACTILE (4) (EXCEPT CH)                     |        |    |      |
| S115                  | 1-554-303-21 | SWITCH, TACTILE (7) (EXCEPT CH)                     |        |    |      |
|                       |              |                                                     |        |    |      |
| S116                  | 1-554-303-21 | SWITCH, TACTILE (SHIFT) (EXCEPT CH)                 |        |    |      |
| S118                  | 1-554-303-21 | SWITCH, TACTILE (DIMMER)                            |        |    |      |
| S119                  | 1-554-303-21 | SWITCH, TACTILE (BASS BOOST) (EXCEPT CH)            |        |    |      |
| S120                  | 1-554-303-21 | SWITCH, TACTILE (2) (EXCEPT CH)                     |        |    |      |
| S121                  | 1-554-303-21 | SWITCH, TACTILE (5) (EXCEPT CH)                     |        |    |      |
|                       |              |                                                     |        |    |      |
| S122                  | 1-554-303-21 | SWITCH, TACTILE (8) (EXCEPT CH)                     |        |    |      |
| S123                  | 1-554-303-21 | SWITCH, TACTILE (0) (EXCEPT CH)                     |        |    |      |
| S125                  | 1-554-303-21 | SWITCH, TACTILE (DISPLAY)                           |        |    |      |
| S126                  | 1-554-303-21 | SWITCH, TACTILE (DIRECT PASS) (EXCEPT CH)           |        |    |      |
| S127                  | 1-554-303-21 | SWITCH, TACTILE (3) (EXCEPT CH)                     |        |    |      |
|                       |              |                                                     |        |    |      |
| S128                  | 1-554-303-21 | SWITCH, TACTILE (6) (EXCEPT CH)                     |        |    |      |
| S129                  | 1-554-303-21 | SWITCH, TACTILE (9) (EXCEPT CH)                     |        |    |      |
| S131                  | 1-554-303-21 | SWITCH, TACTILE (FM/AM) (EXCEPT CH)                 |        |    |      |
| S132                  | 1-554-303-21 | SWITCH, TACTILE (SOUND FIELD ON/OFF)                |        |    |      |
| S133                  | 1-554-118-00 | SWITCH, PUSH (1 KEY) (POWER) (CH)                   |        |    |      |
|                       |              |                                                     |        |    |      |
| S134                  | 1-554-303-21 | SWITCH, TACTILE (POWER) (EXCEPT CH)                 |        |    |      |
| S135                  | 1-762-268-11 | SWITCH, ROTARY (SPEAKERS)                           |        |    |      |
| S139                  | 1-554-303-21 | SWITCH, TACTILE (BASS BOOST) (EXCEPT CH)            |        |    |      |

# DISPLAY

# FRONT VIDEO

# HP

# INPUT

| Ref. No. | Part No.     | Description                          | Remark      |
|----------|--------------|--------------------------------------|-------------|
| S140     | 1-554-303-21 | SWITCH, TACTILE (DIRECT PASS) (CH)   |             |
|          |              | < VIBRATOR >                         |             |
| X100     | 1-567-819-11 | VIBRATOR, CERAMIC (4.00MHz)          |             |
| *****    |              |                                      |             |
| *        | 1-661-560-11 | FRONT VIDEO BOARD                    |             |
|          |              | *****                                |             |
|          |              | < CONNECTOR >                        |             |
| CNE290   | 1-770-968-11 | PIN, CONNECTOR (PCB) (V TYPE) 8P     |             |
|          |              | < JACK >                             |             |
| J299     | 1-764-190-11 | JACK, PIN 3P (AUDIO, VIDEO, S VIDEO) |             |
|          |              | < RESISTOR >                         |             |
| R248     | 1-249-403-11 | CARBON 68 5% 1/4W                    |             |
| R298     | 1-249-403-11 | CARBON 68 5% 1/4W                    |             |
| R299     | 1-249-403-11 | CARBON 68 5% 1/4W                    |             |
| *****    |              |                                      |             |
| *        | 1-661-559-11 | HP BOARD                             |             |
|          |              | *****                                |             |
|          |              | < CONNECTOR >                        |             |
| CNE100   | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P     |             |
|          |              | < JACK >                             |             |
| J100     | 1-568-519-41 | JACK, LARGE TYPE (PHONES)            |             |
|          |              | < RESISTOR >                         |             |
| R178     | 1-247-749-11 | CARBON 560 5% 1/2W                   |             |
| R179     | 1-247-749-11 | CARBON 560 5% 1/2W                   |             |
| *****    |              |                                      |             |
| *        | A-4390-389-A | INPUT BOARD, COMPLETE (EXCEPT CH)    |             |
| *        | A-4390-408-A | INPUT BOARD, COMPLETE (CH)           |             |
|          |              | *****                                |             |
|          | 1-537-770-21 | TERMINAL BOARD, GROUND               |             |
| *        | 4-880-403-11 | HEAT SINK (CH)                       |             |
|          |              | < CAPACITOR >                        |             |
| C001     | 1-126-963-11 | ELECT 4.7uF 20% 50V                  | (EXCEPT CH) |
| C001     | 1-126-047-81 | ELECT 4.7uF 20% 50V                  | (CH)        |
| C002     | 1-110-335-11 | MYLAR 100PF 5% 50V                   |             |
| C003     | 1-107-608-11 | CERAMIC 68PF 5% 500V                 |             |
| C004     | 1-107-597-11 | CERAMIC 22PF 5% 500V                 |             |

| Ref. No. | Part No.     | Description                | Remark      |
|----------|--------------|----------------------------|-------------|
| C005     | 1-124-443-00 | ELECT 100uF 20% 10V        | (EXCEPT CH) |
| C005     | 1-124-994-11 | ELECT 100uF 20% 10V        | (CH)        |
| C008     | 1-126-051-11 | ELECT 47uF 20% 50V         |             |
| C014     | 1-102-937-00 | CERAMIC 4.0PF +-0.25PF 50V |             |
| C201     | 1-126-963-11 | ELECT 4.7uF 20% 50V        | (EXCEPT CH) |
| C201     | 1-126-047-81 | ELECT 4.7uF 20% 50V        | (CH)        |
| C202     | 1-102-106-00 | CERAMIC 100PF 10% 50V      |             |
| C203     | 1-162-282-31 | CERAMIC 100PF 10% 50V      |             |
| C204     | 1-104-664-11 | ELECT 47uF 20% 16V         | (EXCEPT CH) |
| C204     | 1-126-008-51 | ELECT 47uF 20% 16V         | (CH)        |
| C205     | 1-130-480-00 | MYLAR 0.0056uF 5% 50V      |             |
| C206     | 1-130-473-00 | MYLAR 0.0015uF 5% 50V      |             |
| C207     | 1-124-903-11 | ELECT 1uF 20% 50V          | (EXCEPT CH) |
| C207     | 1-126-044-11 | ELECT 1uF 20% 50V          | (CH)        |
| C208     | 1-104-664-11 | ELECT 47uF 20% 16V         | (EXCEPT CH) |
| C208     | 1-126-008-51 | ELECT 47uF 20% 16V         | (CH)        |
| C211     | 1-124-907-11 | ELECT 10uF 20% 50V         | (EXCEPT CH) |
| C211     | 1-126-048-81 | ELECT 10uF 20% 50V         | (CH)        |
| C213     | 1-124-907-11 | ELECT 10uF 20% 50V         | (EXCEPT CH) |
| C213     | 1-126-048-81 | ELECT 10uF 20% 50V         | (CH)        |
| C216     | 1-164-159-11 | CERAMIC 0.1uF 50V          |             |
| C248     | 1-124-478-11 | ELECT 100uF 20% 25V        |             |
| C249     | 1-124-478-11 | ELECT 100uF 20% 25V        |             |
| C251     | 1-126-963-11 | ELECT 4.7uF 20% 50V        | (EXCEPT CH) |
| C251     | 1-126-047-81 | ELECT 4.7uF 20% 50V        | (CH)        |
| C252     | 1-102-106-00 | CERAMIC 100PF 10% 50V      |             |
| C253     | 1-162-282-31 | CERAMIC 100PF 10% 50V      |             |
| C254     | 1-104-664-11 | ELECT 47uF 20% 16V         | (EXCEPT CH) |
| C254     | 1-126-008-51 | ELECT 47uF 20% 16V         | (CH)        |
| C255     | 1-130-480-00 | MYLAR 0.0056uF 5% 50V      |             |
| C256     | 1-130-473-00 | MYLAR 0.0015uF 5% 50V      |             |
| C257     | 1-124-903-11 | ELECT 1uF 20% 50V          | (EXCEPT CH) |

# INPUT

| Ref. No. | Part No.     | Description | Remark                        |
|----------|--------------|-------------|-------------------------------|
| C257     | 1-126-044-11 | ELECT       | 1uF 20% 50V<br>(CH)           |
| C258     | 1-104-664-11 | ELECT       | 47uF 20% 16V<br>(EXCEPT CH)   |
| C258     | 1-126-008-51 | ELECT       | 47uF 20% 16V<br>(CH)          |
| C261     | 1-124-907-11 | ELECT       | 10uF 20% 50V<br>(EXCEPT CH)   |
| C261     | 1-126-048-81 | ELECT       | 10uF 20% 50V<br>(CH)          |
| C263     | 1-124-907-11 | ELECT       | 10uF 20% 50V<br>(EXCEPT CH)   |
| C263     | 1-126-048-81 | ELECT       | 10uF 20% 50V<br>(CH)          |
| C266     | 1-164-159-11 | CERAMIC     | 0. 1uF 50V                    |
| C297     | 1-162-294-31 | CERAMIC     | 0. 001uF 10% 50V              |
| C601     | 1-126-963-11 | ELECT       | 4. 7uF 20% 50V<br>(EXCEPT CH) |
| C601     | 1-126-047-81 | ELECT       | 4. 7uF 20% 50V<br>(CH)        |
| C602     | 1-110-335-11 | MYLAR       | 100PF 5% 50V                  |
| C603     | 1-107-608-11 | CERAMIC     | 68PF 5% 500V                  |
| C604     | 1-107-597-11 | CERAMIC     | 22PF 5% 500V                  |
| C605     | 1-124-443-00 | ELECT       | 100uF 20% 10V<br>(EXCEPT CH)  |
| C605     | 1-124-994-11 | ELECT       | 100uF 20% 10V<br>(CH)         |
| C608     | 1-124-910-11 | ELECT       | 47uF 20% 50V<br>(EXCEPT CH)   |
| C608     | 1-126-051-11 | ELECT       | 47uF 20% 50V<br>(CH)          |
| C614     | 1-102-937-00 | CERAMIC     | 4. 0PF +-0. 25PF 50V          |
| C651     | 1-126-963-11 | ELECT       | 4. 7uF 20% 50V<br>(EXCEPT CH) |
| C651     | 1-126-047-81 | ELECT       | 4. 7uF 20% 50V<br>(CH)        |
| C652     | 1-110-335-11 | MYLAR       | 100PF 5% 50V                  |
| C653     | 1-107-608-11 | CERAMIC     | 68PF 5% 500V                  |
| C654     | 1-107-597-11 | CERAMIC     | 22PF 5% 500V                  |
| C655     | 1-124-443-00 | ELECT       | 100uF 20% 10V<br>(EXCEPT CH)  |
| C655     | 1-124-994-11 | ELECT       | 100uF 20% 10V<br>(CH)         |
| C664     | 1-102-937-00 | CERAMIC     | 4. 0PF +-0. 25PF 50V          |
| C920     | 1-136-153-00 | FILM        | 0. 01uF 5% 50V                |
| C921     | 1-136-153-00 | FILM        | 0. 01uF 5% 50V                |
| C922     | 1-136-153-00 | FILM        | 0. 01uF 5% 50V                |
| C975     | 1-124-563-11 | ELECT       | 2200uF 20% 25V<br>(EXCEPT CH) |
| C975     | 1-126-029-11 | ELECT       | 3300uF 20% 25V<br>(CH)        |

| Ref. No.     | Part No.     | Description                              | Remark                        |
|--------------|--------------|------------------------------------------|-------------------------------|
| C976         | 1-124-563-11 | ELECT                                    | 2200uF 20% 25V<br>(EXCEPT CH) |
| C976         | 1-126-029-11 | ELECT                                    | 3300uF 20% 25V<br>(CH)        |
| C977         | 1-124-563-11 | ELECT                                    | 2200uF 20% 25V<br>(EXCEPT CH) |
| C977         | 1-126-029-11 | ELECT                                    | 3300uF 20% 25V<br>(CH)        |
| C978         | 1-124-478-11 | ELECT                                    | 100uF 20% 25V                 |
| C979         | 1-124-478-11 | ELECT                                    | 100uF 20% 25V                 |
| C980         | 1-124-478-11 | ELECT                                    | 100uF 20% 25V                 |
| < CONNCTOR > |              |                                          |                               |
| CNE204       | 1-770-970-11 | PIN, CONNECTOR (PCB) (V TYPE) 10P        |                               |
| CNE939       | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P         |                               |
| CNL903       | 1-778-769-11 | PIN, CONNECTOR                           |                               |
| CNL904       | 1-778-769-11 | PIN, CONNECTOR                           |                               |
| CNP201       | 1-695-091-11 | PIN, CONNECTOR (PC BOARD) 15P            |                               |
| CNP203       | 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P             |                               |
| CNP206       | 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P             |                               |
| CNP504       | 1-750-180-11 | PIN, CONNECTOR (PC BOARD) 5P             |                               |
| CNP602       | 1-778-458-11 | CONNECTOR, BOARD TO BOARD 12P            |                               |
| < DIODE >    |              |                                          |                               |
| D908         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D909         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D910         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D911         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D912         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D913         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D914         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| D915         | 8-719-024-99 | DIODE 11ES2-NTA2B                        |                               |
| < IC >       |              |                                          |                               |
| IC001        | 8-749-011-16 | IC STK350-230                            |                               |
| IC201        | 8-759-636-74 | IC M5218AP-22                            |                               |
| IC202        | 8-759-805-14 | IC LC7822                                |                               |
| IC203        | 8-759-636-74 | IC M5218AP-22                            |                               |
| IC253        | 8-759-636-74 | IC M5218AP-22                            |                               |
| IC601        | 8-749-011-16 | IC STK350-230                            |                               |
| IC651        | 8-749-011-16 | IC STK350-230                            |                               |
| IC971        | 8-759-231-58 | IC TA7812S                               |                               |
| IC972        | 8-759-604-45 | IC M5F79M12                              |                               |
| IC973        | 8-759-701-56 | IC NJM78M05FA                            |                               |
| < JACK >     |              |                                          |                               |
| J201         | 1-770-272-11 | JACK, PIN 2P (PHONO IN) (EXCEPT CH)      |                               |
| J201         | 1-695-188-31 | JACK, PIN 4P (PHONO IN, TUNNER IN) (CH)  |                               |
| J202         | 1-770-015-11 | JACK, PIN 6P (DAT/MD IN, REC OUT, CD IN) |                               |

# INPUT

# POWER TRANSFORMER A

| Ref. No.       | Part No.     | Description                                      | Remark |
|----------------|--------------|--------------------------------------------------|--------|
| J203           | 1-770-015-11 | JACK, PIN 6P (5.1 INPUT FRONT, TAPE IN, REC OUT) |        |
| J204           | 1-766-398-21 | JACK, PIN 4P (5.1 INPUT REAR, CENTER, WOOFER)    |        |
| J205           | 1-766-398-21 | JACK, PIN 4P (REAR, CENTER, WOOFER)              |        |
| < TRANSISTOR > |              |                                                  |        |
| Q201           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK                           |        |
| Q202           | 8-729-900-63 | TRANSISTOR DTA124ES                              |        |
| Q251           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK                           |        |
| < RESISTOR >   |              |                                                  |        |
| R001           | 1-249-438-11 | CARBON 56K 5% 1/4W                               |        |
| R002           | 1-249-198-11 | CARBON 330 5% 1/3W                               |        |
| R003           | 1-249-413-11 | CARBON 470 5% 1/4W                               |        |
| R014           | 1-249-493-11 | CARBON 56K 5% 1/3W                               |        |
| R027           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R201           | 1-249-409-11 | CARBON 220 5% 1/4W                               |        |
| R202           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R203           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R204           | 1-249-416-11 | CARBON 820 5% 1/4W                               |        |
| R205           | 1-247-897-11 | CARBON 560K 5% 1/4W                              |        |
| R206           | 1-249-437-11 | CARBON 47K 5% 1/4W                               |        |
| R207           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R208           | 1-247-807-31 | CARBON 100 5% 1/4W                               |        |
| R209           | 1-249-417-11 | CARBON 1K 5% 1/4W (CH)                           |        |
| R210           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R211           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R212           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R213           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R214           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R215           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R216           | 1-249-437-11 | CARBON 47K 5% 1/4W                               |        |
| R217           | 1-249-437-11 | CARBON 47K 5% 1/4W                               |        |
| R218           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R220           | 1-249-425-11 | CARBON 4.7K 5% 1/4W                              |        |
| R228           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R232           | 1-249-409-11 | CARBON 220 5% 1/4W                               |        |
| R240           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R241           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R242           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R243           | 1-247-807-31 | CARBON 100 5% 1/4W                               |        |
| R244           | 1-247-807-31 | CARBON 100 5% 1/4W                               |        |
| R247           | 1-249-417-11 | CARBON 1K 5% 1/4W                                |        |
| R251           | 1-249-409-11 | CARBON 220 5% 1/4W                               |        |
| R252           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R253           | 1-249-441-11 | CARBON 100K 5% 1/4W                              |        |
| R254           | 1-249-416-11 | CARBON 820 5% 1/4W                               |        |

| Ref. No.                                 | Part No.     | Description                            | Remark |
|------------------------------------------|--------------|----------------------------------------|--------|
| R255                                     | 1-247-897-11 | CARBON 560K 5% 1/4W                    |        |
| R256                                     | 1-249-437-11 | CARBON 47K 5% 1/4W                     |        |
| R257                                     | 1-249-441-11 | CARBON 100K 5% 1/4W                    |        |
| R258                                     | 1-247-807-31 | CARBON 100 5% 1/4W                     |        |
| R259                                     | 1-249-417-11 | CARBON 1K 5% 1/4W (CH)                 |        |
| R260                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R261                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R262                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R263                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R264                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R265                                     | 1-249-441-11 | CARBON 100K 5% 1/4W                    |        |
| R266                                     | 1-249-437-11 | CARBON 47K 5% 1/4W                     |        |
| R267                                     | 1-249-437-11 | CARBON 47K 5% 1/4W                     |        |
| R268                                     | 1-249-441-11 | CARBON 100K 5% 1/4W                    |        |
| R270                                     | 1-249-425-11 | CARBON 4.7K 5% 1/4W                    |        |
| R278                                     | 1-249-437-11 | CARBON 47K 5% 1/4W                     |        |
| R282                                     | 1-249-409-11 | CARBON 220 5% 1/4W                     |        |
| R290                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R291                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R292                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R297                                     | 1-249-425-11 | CARBON 4.7K 5% 1/4W                    |        |
| R601                                     | 1-249-438-11 | CARBON 56K 5% 1/4W                     |        |
| R602                                     | 1-249-198-11 | CARBON 330 5% 1/3W                     |        |
| R603                                     | 1-249-413-11 | CARBON 470 5% 1/4W                     |        |
| R614                                     | 1-249-493-11 | CARBON 56K 5% 1/3W                     |        |
| R651                                     | 1-249-438-11 | CARBON 56K 5% 1/4W                     |        |
| R652                                     | 1-249-198-11 | CARBON 330 5% 1/3W                     |        |
| R653                                     | 1-249-413-11 | CARBON 470 5% 1/4W                     |        |
| R664                                     | 1-249-493-11 | CARBON 56K 5% 1/3W                     |        |
| R727                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| R777                                     | 1-249-417-11 | CARBON 1K 5% 1/4W                      |        |
| < SWITCH >                               |              |                                        |        |
| S202                                     | 1-692-196-11 | SWITCH, SLIDE (LOW FILTER) (EXCEPT CH) |        |
| S203                                     | 1-692-196-11 | SWITCH, SLIDE (POWER SWAP) (EXCEPT CH) |        |
| *****                                    |              |                                        |        |
| * 1-661-571-11 POWER TRANSFORMER A BOARD |              |                                        |        |
| *****                                    |              |                                        |        |
| 1-533-339-31 HOLDER, FUSE                |              |                                        |        |
| < CAPACITOR >                            |              |                                        |        |
| C996                                     | 1-106-383-00 | MYLAR 0.047uF 5% 200V                  |        |
| C997                                     | 1-106-383-00 | MYLAR 0.047uF 5% 200V                  |        |
| < CONNECTOR >                            |              |                                        |        |
| CNE932                                   | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P       |        |
| * CNV931 1-565-395-11 PIN, CONNECTOR 3P  |              |                                        |        |

## POWER TRANSFORMER A

## POWER TRANSFORMER B

## S VIDEO

| Ref. No.        | Part No.     | Description                                            | Remark |
|-----------------|--------------|--------------------------------------------------------|--------|
| < DIODE >       |              |                                                        |        |
| D970            | 8-719-028-23 | DIODE D3SBA20-4101                                     |        |
| < FUSE >        |              |                                                        |        |
| △F911           | 1-533-420-11 | FUSE, GLASS CYLINDRICAL (DIA. 5) (5A 125V) (US, CND)   |        |
| △F911           | 1-532-505-51 | FUSE, TIME LAG (5A 250V) (CH, AUS)                     |        |
| △F912           | 1-533-614-11 | FUSE, GLASS CYLINDRICAL (DIA. 5) (1.6A 125V) (US, CND) |        |
| △F912           | 1-532-503-51 | FUSE, TIME LAG (1.6A 250V) (CH, AUS)                   |        |
| △F913           | 1-533-614-11 | FUSE, GLASS CYLINDRICAL (DIA. 5) (1.6A 125V) (US, CND) |        |
| △F913           | 1-532-503-51 | FUSE, TIME LAG (1.6A 250V) (CH, AUS)                   |        |
| △F914           | 1-533-420-11 | FUSE, GLASS CYLINDRICAL (DIA. 5) (5A 125V) (US, CND)   |        |
| △F914           | 1-532-464-51 | FUSE, TIME LAG (5A 250V) (CH, AUS)                     |        |
| < TRANSFORMER > |              |                                                        |        |
| △T1             | 1-429-589-11 | TRANSFORMER, POWER (US)                                |        |
| △T1             | 1-429-590-11 | TRANSFORMER, POWER (AUS)                               |        |
| △T1             | 1-429-594-11 | TRANSFORMER, POWER (CH)                                |        |
| △T1             | 1-429-596-11 | TRANSFORMER, POWER (CND)                               |        |
| *****           |              |                                                        |        |
| *               | 1-661-572-11 | POWER TRANSFORMER B BOARD                              |        |
| *****           |              |                                                        |        |
|                 | 4-986-277-01 | SPACER (29)                                            |        |
|                 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3                             |        |
| < CAPACITOR >   |              |                                                        |        |
| C981            | 1-126-964-11 | ELECT 10uF 20% 50V                                     |        |
| C982            | 1-126-964-11 | ELECT 10uF 20% 50V                                     |        |
| C989            | 1-128-555-91 | ELECT 470uF 20% 63V (EXCEPT CH)                        |        |
| C989            | 1-128-553-51 | ELECT 220uF 20% 63V (CH)                               |        |
| < CONNECTOR >   |              |                                                        |        |
| CNE934          | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P (EXCEPT CH)           |        |
| CNE934          | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P (CH)                  |        |
| CNV953          | 1-766-897-11 | PIN, CONNECTOR (PC BOARD) 4P                           |        |
| < DIODE >       |              |                                                        |        |
| D916            | 8-719-987-63 | DIODE 1N4148M (EXCEPT CH)                              |        |
| D917            | 8-719-014-66 | DIODE UZP-5.6B                                         |        |
| D918            | 8-719-024-99 | DIODE 11ES2-NTA2B (CH)                                 |        |
| D919            | 8-719-024-99 | DIODE 11ES2-NTA2B (CH)                                 |        |
| D920            | 8-719-024-99 | DIODE 11ES2-NTA2B (EXCEPT CH)                          |        |

| Ref. No.       | Part No.     | Description                      | Remark |
|----------------|--------------|----------------------------------|--------|
| D921           | 8-719-024-99 | DIODE 11ES2-NTA2B (EXCEPT CH)    |        |
| D974           | 8-719-002-76 | DIODE UZL-36H                    |        |
| < TRANSISTOR > |              |                                  |        |
| Q971           | 8-729-140-96 | TRANSISTOR 2SD774-34             |        |
| < RESISTOR >   |              |                                  |        |
| △R975          | 1-249-405-11 | CARBON 100 5% 1/4W F             |        |
| R976           | 1-249-426-11 | CARBON 5.6K 5% 1/4W              |        |
| < RELAY >      |              |                                  |        |
| RY902          | 1-515-894-11 | RELAY (US, AUS)                  |        |
| RY903          | 1-515-918-11 | RELAY (CND)                      |        |
| RY904          | 1-515-918-11 | RELAY (CND)                      |        |
| *****          |              |                                  |        |
| *              | A-4390-398-A | S VIDEO BOARD, COMPLETE          |        |
| *****          |              |                                  |        |
| < CAPACITOR >  |              |                                  |        |
| C805           | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C809           | 1-164-095-11 | CERAMIC 0.01uF 10% 16V           |        |
| C810           | 1-124-903-11 | ELECT 1uF 20% 50V                |        |
| C814           | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C817           | 1-164-159-11 | CERAMIC 0.1uF 50V                |        |
| C821           | 1-164-095-11 | CERAMIC 0.01uF 10% 16V           |        |
| C822           | 1-124-903-11 | ELECT 1uF 20% 50V                |        |
| C823           | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C825           | 1-164-095-11 | CERAMIC 0.01uF 10% 16V           |        |
| C826           | 1-124-907-11 | ELECT 10uF 20% 50V               |        |
| C827           | 1-124-907-11 | ELECT 10uF 20% 50V               |        |
| C828           | 1-124-907-11 | ELECT 10uF 20% 50V               |        |
| C829           | 1-124-903-11 | ELECT 1uF 20% 50V                |        |
| C833           | 1-124-903-11 | ELECT 1uF 20% 50V                |        |
| C834           | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C845           | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C846           | 1-104-664-11 | ELECT 47uF 20% 50V               |        |
| C878           | 1-124-903-11 | ELECT 1uF 20% 50V                |        |
| < CONNECTOR >  |              |                                  |        |
| * CND801       | 1-564-340-61 | PIN, CONNECTOR 6P                |        |
| CNE807         | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P |        |
| CNS805         | 1-695-093-11 | SOCKET, CONNECTOR 9P             |        |
| < IC >         |              |                                  |        |
| IC803          | 8-759-061-95 | IC SN761200                      |        |
| IC804          | 8-759-061-95 | IC SN761200                      |        |

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

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

| Ref. No.       | Part No.     | Description                                         | Remark |
|----------------|--------------|-----------------------------------------------------|--------|
| < JACK >       |              |                                                     |        |
| J804           | 1-537-943-11 | TERMINAL, S (TV) (CH)                               |        |
| J805           | 1-764-676-11 | CONNECTOR (ROUND TYPE) (VIDEO 2 OUT,<br>LD IN)      |        |
| J806           | 1-764-676-11 | CONNECTOR (ROUND TYPE) (VIDEO 1 OUT,<br>VIDEO 2 IN) |        |
| J807           | 1-764-676-11 | CONNECTOR (ROUND TYPE) (MONITOR OUT,<br>VIDEO 1 IN) |        |
| < COIL >       |              |                                                     |        |
| L803           | 1-410-509-11 | INDUCTOR 10uH                                       |        |
| < TRANSISTOR > |              |                                                     |        |
| Q804           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q805           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q806           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q807           | 8-729-620-05 | TRANSISTOR 2SC2603-EF                               |        |
| Q808           | 8-729-620-05 | TRANSISTOR 2SC2603-EF                               |        |
| Q809           | 8-729-620-05 | TRANSISTOR 2SC2603-EF                               |        |
| Q810           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q811           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q812           | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                              |        |
| Q813           | 8-729-900-36 | TRANSISTOR DTC124ES                                 |        |
| < RESISTOR >   |              |                                                     |        |
| R806           | 1-247-807-31 | CARBON 100 5% 1/4W                                  |        |
| R815           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R818           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R819           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R820           | 1-249-409-11 | CARBON 220 5% 1/4W                                  |        |
| R821           | 1-249-409-11 | CARBON 220 5% 1/4W                                  |        |
| R823           | 1-249-409-11 | CARBON 220 5% 1/4W                                  |        |
| R824           | 1-249-409-11 | CARBON 220 5% 1/4W                                  |        |
| R825           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R827           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R828           | 1-249-411-11 | CARBON 330 5% 1/4W                                  |        |
| R829           | 1-249-411-11 | CARBON 330 5% 1/4W                                  |        |
| R830           | 1-249-411-11 | CARBON 330 5% 1/4W                                  |        |
| R831           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R833           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                                 |        |
| R834           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                                 |        |
| R835           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                                 |        |
| R838           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R839           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R840           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R841           | 1-249-403-11 | CARBON 68 5% 1/4W                                   |        |
| R843           | 1-249-419-11 | CARBON 1.5K 5% 1/4W                                 |        |
| R844           | 1-249-419-11 | CARBON 1.5K 5% 1/4W                                 |        |

| Ref. No.                           | Part No.     | Description                      | Remark |
|------------------------------------|--------------|----------------------------------|--------|
| R845                               | 1-249-419-11 | CARBON 1.5K 5% 1/4W              |        |
| R847                               | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R848                               | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R849                               | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R851                               | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R854                               | 1-249-430-11 | CARBON 12K 5% 1/4W               |        |
| R855                               | 1-249-430-11 | CARBON 12K 5% 1/4W               |        |
| R856                               | 1-249-430-11 | CARBON 12K 5% 1/4W               |        |
| R857                               | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R8007                              | 1-249-409-11 | CARBON 220 5% 1/4W               |        |
| R8011                              | 1-249-409-11 | CARBON 220 5% 1/4W               |        |
| R8055                              | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| R8056                              | 1-249-403-11 | CARBON 68 5% 1/4W                |        |
| *****                              |              |                                  |        |
| * A-4390-351-A SAM BOARD, COMPLETE |              |                                  |        |
| *****                              |              |                                  |        |
| < CAPACITOR >                      |              |                                  |        |
| C701                               | 1-126-963-11 | ELECT 4.7uF 20% 50V              |        |
| C702                               | 1-162-282-31 | CERAMIC 100PF 10% 50V            |        |
| C703                               | 1-124-443-00 | ELECT 100uF 20% 10V              |        |
| C704                               | 1-102-233-00 | CERAMIC 33PF 10% 500V            |        |
| C705                               | 1-124-122-11 | ELECT 100uF 20% 50V              |        |
| C706                               | 1-124-122-11 | ELECT 100uF 20% 50V              |        |
| C708                               | 1-124-910-11 | ELECT 47uF 20% 50V               |        |
| C714                               | 1-162-193-31 | CERAMIC 3.3PF 10% 50V            |        |
| C720                               | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| C751                               | 1-126-963-11 | ELECT 4.7uF 20% 50V              |        |
| C752                               | 1-162-282-31 | CERAMIC 100PF 10% 50V            |        |
| C753                               | 1-124-443-00 | ELECT 100uF 20% 10V              |        |
| C754                               | 1-102-233-00 | CERAMIC 33PF 10% 500V            |        |
| C758                               | 1-124-910-11 | ELECT 47uF 20% 50V               |        |
| C764                               | 1-162-193-31 | CERAMIC 3.3PF 10% 50V            |        |
| C770                               | 1-136-165-00 | FILM 0.1uF 5% 50V                |        |
| < CONNECTOR >                      |              |                                  |        |
| CNE705                             | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P |        |
| CNS706                             | 1-764-814-11 | CONNECTOR, BOARD TO BOARD 15P    |        |
| < IC >                             |              |                                  |        |
| IC701                              | 8-759-326-52 | IC uPC2581V                      |        |
| < TRANSISTOR >                     |              |                                  |        |
| Q707                               | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA         |        |
| Q757                               | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA         |        |

|            |              |                  |                  |
|------------|--------------|------------------|------------------|
| <b>SAM</b> | <b>SP TM</b> | <b>SP TM (A)</b> | <b>SP TM (B)</b> |
|------------|--------------|------------------|------------------|

| Ref. No.     | Part No.     | Description | Remark |    |                | Ref. No.     | Part No.     | Description    | Remark      |             |  |
|--------------|--------------|-------------|--------|----|----------------|--------------|--------------|----------------|-------------|-------------|--|
| < RESISTOR > |              |             |        |    | < COIL >       |              |              |                |             |             |  |
| R701         | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W           | L001         | 1-411-906-11 | COIL, AIR-CORE |             |             |  |
| R702         | 1-249-438-11 | CARBON      | 56K    | 5% | 1/4W           | L601         | 1-411-906-11 | COIL, AIR-CORE |             |             |  |
| R703         | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W           | L651         | 1-411-906-11 | COIL, AIR-CORE |             |             |  |
| R704         | 1-249-432-11 | CARBON      | 18K    | 5% | 1/4W           | L701         | 1-411-906-11 | COIL, AIR-CORE |             |             |  |
| R714         | 1-249-438-11 | CARBON      | 56K    | 5% | 1/4W           | L751         | 1-411-906-11 | COIL, AIR-CORE |             |             |  |
|              |              |             |        |    | < TRANSISTOR > |              |              |                |             |             |  |
| R721         | 1-249-425-11 | CARBON      | 4. 7K  | 5% | 1/4W           | Q008         | 8-729-119-79 | TRANSISTOR     | 2SC2785-FEK |             |  |
| R722         | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W           | Q603         | 8-729-119-79 | TRANSISTOR     | 2SC2785-FEK |             |  |
| R751         | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W           | Q608         | 8-729-119-79 | TRANSISTOR     | 2SC2785-FEK |             |  |
| R752         | 1-249-438-11 | CARBON      | 56K    | 5% | 1/4W           | Q651         | 8-729-119-79 | TRANSISTOR     | 2SC2785-FEK | (EXCEPT CH) |  |
| R753         | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W           | Q658         | 8-729-119-79 | TRANSISTOR     | 2SC2785-FEK |             |  |
|              |              |             |        |    | Q708           | 8-729-119-79 | TRANSISTOR   | 2SC2785-FEK    |             |             |  |
| R764         | 1-249-438-11 | CARBON      | 56K    | 5% | 1/4W           | < RESISTOR > |              |                |             |             |  |
| R771         | 1-249-425-11 | CARBON      | 4. 7K  | 5% | 1/4W           | R024         | 1-249-393-11 | CARBON         | 10          | 5% 1/4W     |  |
| R772         | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W           | R025         | 1-249-389-11 | CARBON         | 4. 7        | 5% 1/4W     |  |
| *****        |              |             |        |    | R026           | 1-249-432-11 | CARBON       | 18K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R030           | 1-249-425-11 | CARBON       | 4. 7K          | 5% 1/4W     |             |  |
|              |              |             |        |    | R031           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    |                |              |              |                |             |             |  |
|              |              |             |        |    | R032           | 1-249-414-11 | CARBON       | 560            | 5% 1/4W     |             |  |
|              |              |             |        |    | R050           | 1-249-425-11 | CARBON       | 4. 7K          | 5% 1/4W     | (EXCEPT CH) |  |
|              |              |             |        |    |                |              |              |                |             |             |  |
|              |              |             |        |    | R051           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     | (EXCEPT CH) |  |
|              |              |             |        |    | R052           | 1-249-414-11 | CARBON       | 560            | 5% 1/4W     |             |  |
|              |              |             |        |    | R604           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R608           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R616           | 1-249-417-11 | CARBON       | 1K             | 5% 1/4W     |             |  |
|              |              |             |        |    | R617           | 1-249-417-11 | CARBON       | 1K             | 5% 1/4W     |             |  |
|              |              |             |        |    | R624           | 1-249-393-11 | CARBON       | 10             | 5% 1/4W     |             |  |
|              |              |             |        |    | R625           | 1-249-389-11 | CARBON       | 4. 7           | 5% 1/4W     |             |  |
|              |              |             |        |    |                |              |              |                |             |             |  |
|              |              |             |        |    | R630           | 1-249-425-11 | CARBON       | 4. 7K          | 5% 1/4W     |             |  |
|              |              |             |        |    | R631           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R632           | 1-249-414-11 | CARBON       | 560            | 5% 1/4W     |             |  |
|              |              |             |        |    | R674           | 1-249-393-11 | CARBON       | 10             | 5% 1/4W     |             |  |
|              |              |             |        |    | R675           | 1-249-389-11 | CARBON       | 4. 7           | 5% 1/4W     |             |  |
|              |              |             |        |    |                |              |              |                |             |             |  |
|              |              |             |        |    | R680           | 1-249-425-11 | CARBON       | 4. 7K          | 5% 1/4W     |             |  |
|              |              |             |        |    | R681           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R682           | 1-249-414-11 | CARBON       | 560            | 5% 1/4W     |             |  |
|              |              |             |        |    | R724           | 1-249-393-11 | CARBON       | 10             | 5% 1/4W     |             |  |
|              |              |             |        |    | R725           | 1-249-389-11 | CARBON       | 4. 7           | 5% 1/4W     |             |  |
|              |              |             |        |    |                |              |              |                |             |             |  |
|              |              |             |        |    | R726           | 1-249-432-11 | CARBON       | 18K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R730           | 1-249-425-11 | CARBON       | 4. 7K          | 5% 1/4W     |             |  |
|              |              |             |        |    | R731           | 1-249-429-11 | CARBON       | 10K            | 5% 1/4W     |             |  |
|              |              |             |        |    | R732           | 1-249-414-11 | CARBON       | 560            | 5% 1/4W     |             |  |
|              |              |             |        |    | R774           | 1-249-393-11 | CARBON       | 10             | 5% 1/4W     |             |  |
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|              |              |             |        |    |                |              |              |                |             |             |  |

| SP TM         |              |                                                     |         |     | SP TM (A)   |          |              |         |        | SP TM (B) |          |             |        |                | SURROUND |          |             |        |  |
|---------------|--------------|-----------------------------------------------------|---------|-----|-------------|----------|--------------|---------|--------|-----------|----------|-------------|--------|----------------|----------|----------|-------------|--------|--|
| Ref. No.      | Part No.     | Description                                         | Remark  |     | Ref. No.    | Part No. | Description  | Remark  |        | Ref. No.  | Part No. | Description | Remark |                | Ref. No. | Part No. | Description | Remark |  |
| R775          | 1-249-389-11 | CARBON                                              | 4.7     | 5%  | 1/4W        | C1310    | 1-124-995-11 | ELECT   | 220uF  | 20%       | 10V      |             |        |                |          |          |             |        |  |
| R776          | 1-249-432-11 | CARBON                                              | 18K     | 5%  | 1/4W        | C1311    | 1-124-907-11 | ELECT   | 10uF   | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| < RELAY >     |              |                                                     |         |     |             |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| RY001         | 1-515-920-11 | RELAY (24V)                                         |         |     |             | C1311    | 1-126-048-81 | ELECT   | 10uF   | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| RY601         | 1-515-920-11 | RELAY (24V)                                         |         |     |             | C1312    | 1-124-907-11 | ELECT   | 10uF   | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
| RY602         | 1-515-614-11 | RELAY                                               |         |     |             | C1312    | 1-126-048-81 | ELECT   | 10uF   | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| RY651         | 1-515-920-11 | RELAY (24V)                                         |         |     |             | C1313    | 1-136-165-00 | FILM    | 0.1uF  | 5%        | 50V      |             |        |                |          |          |             |        |  |
| RY701         | 1-515-920-11 | RELAY (24V)                                         |         |     |             | C1314    | 1-136-165-00 | FILM    | 0.1uF  | 5%        | 50V      |             |        |                |          |          |             |        |  |
| < SWITCH >    |              |                                                     |         |     |             |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| S721          | 1-692-196-11 | SWITCH, SLIDE (IMPEDANCE SELECTOR)                  |         |     | (EXCEPT CH) | C1315    | 1-124-902-00 | ELECT   | 0.47uF | 20%       | 50V      |             |        | (US, CND)      |          |          |             |        |  |
| < TERMINAL >  |              |                                                     |         |     |             |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| TM001         | 1-694-115-11 | TERMINAL BOARD (6P) (CENTER SPEAKER, REAR SPEAKERS) |         |     |             | C1316    | 1-126-963-11 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
| TM601         | 1-694-113-11 | TERMINAL BOARD (FRONT SPEAKERS)                     |         |     |             | C1316    | 1-126-047-81 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| *****         |              |                                                     |         |     |             | C1317    | 1-124-902-00 | ELECT   | 0.47uF | 20%       | 50V      |             |        | (US, CND, AUS) |          |          |             |        |  |
| *             | A-4390-392-A | SURROUND BOARD, COMPLETE (US, CND)                  |         |     |             | C1318    | 1-126-963-11 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
| *             | A-4390-492-A | SURROUND BOARD, COMPLETE (AUS)                      |         |     |             |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| *             | A-4390-405-A | SURROUND BOARD, COMPLETE (CH)                       |         |     |             | C1318    | 1-126-047-81 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| *****         |              |                                                     |         |     |             | C1319    | 1-136-167-00 | FILM    | 0.15uF | 5%        | 50V      |             |        |                |          |          |             |        |  |
| < CAPACITOR > |              |                                                     |         |     |             | C1320    | 1-126-962-11 | ELECT   | 3.3uF  | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
| C1303         | 1-136-157-00 | FILM                                                | 0.022uF | 5%  | 50V         | C1320    | 1-126-046-11 | ELECT   | 3.3uF  | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
| C1304         | 1-136-161-00 | FILM                                                | 0.047uF | 5%  | 50V         | C1321    | 1-136-167-00 | FILM    | 0.15uF | 5%        | 50V      |             |        |                |          |          |             |        |  |
| C1305         | 1-104-666-11 | ELECT                                               | 220uF   | 20% | 10V         | C1322    | 1-162-282-31 | CERAMIC | 100PF  | 10%       | 50V      |             |        |                |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) | C1323    | 1-104-664-11 | ELECT   | 47uF   | 20%       | 16V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
| C1305         | 1-124-995-11 | ELECT                                               | 220uF   | 20% | 10V         | C1323    | 1-126-008-51 | ELECT   | 47uF   | 20%       | 16V      |             |        | (CH)           |          |          |             |        |  |
|               |              |                                                     |         |     | (CH)        |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1306         | 1-124-907-11 | ELECT                                               | 10uF    | 20% | 50V         | C1324    | 1-136-165-00 | FILM    | 0.1uF  | 5%        | 50V      |             |        |                |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) | C1325    | 1-136-165-00 | FILM    | 0.1uF  | 5%        | 50V      |             |        |                |          |          |             |        |  |
| C1306         | 1-126-048-81 | ELECT                                               | 10uF    | 20% | 50V         |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
|               |              |                                                     |         |     | (CH)        | C1326    | 1-124-902-00 | ELECT   | 0.47uF | 20%       | 50V      |             |        | (US, CND, AUS) |          |          |             |        |  |
| C1307         | 1-124-907-11 | ELECT                                               | 10uF    | 20% | 50V         | C1327    | 1-126-963-11 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1307         | 1-126-048-81 | ELECT                                               | 10uF    | 20% | 50V         | C1327    | 1-126-047-81 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
|               |              |                                                     |         |     | (CH)        |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1308         | 1-124-907-11 | ELECT                                               | 10uF    | 20% | 50V         | C1328    | 1-126-963-11 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (EXCEPT CH)    |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1308         | 1-126-048-81 | ELECT                                               | 10uF    | 20% | 50V         | C1328    | 1-126-047-81 | ELECT   | 4.7uF  | 20%       | 50V      |             |        | (CH)           |          |          |             |        |  |
|               |              |                                                     |         |     | (CH)        |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1309         | 1-124-907-11 | ELECT                                               | 10uF    | 20% | 50V         |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) | C1329    | 1-136-167-00 | FILM    | 0.15uF | 5%        | 50V      |             |        |                |          |          |             |        |  |
| C1309         | 1-126-048-81 | ELECT                                               | 10uF    | 20% | 50V         | C1330    | 1-124-902-00 | ELECT   | 0.47uF | 20%       | 50V      |             |        | (US, CND, AUS) |          |          |             |        |  |
|               |              |                                                     |         |     | (CH)        |          |              |         |        |           |          |             |        |                |          |          |             |        |  |
| C1310         | 1-104-666-11 | ELECT                                               | 220uF   | 20% | 10V         | C1331    | 1-126-962-11 | ELECT   | 3.3uF  | 20%       | 50V      |             |        | (WXCEPT CH)    |          |          |             |        |  |
|               |              |                                                     |         |     | (EXCEPT CH) |          |              |         |        |           |          |             |        |                |          |          |             |        |  |

# SURROUND

| Ref. No. | Part No.     | Description | Remark                     | Ref. No. | Part No.     | Description | Remark                     |
|----------|--------------|-------------|----------------------------|----------|--------------|-------------|----------------------------|
| C1331    | 1-126-046-11 | ELECT       | 3. 3uF 20% 50V (CH)        | C1357    | 1-124-995-11 | ELECT       | 220uF 20% 10V (CH)         |
| C1332    | 1-136-167-00 | FILM        | 0. 15uF 5% 50V             | C1391    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   |
| C1333    | 1-104-666-11 | ELECT       | 220uF 20% 10V (EXCEPT CH)  | C1391    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          |
| C1333    | 1-124-995-11 | ELECT       | 220uF 20% 10V (CH)         | C1392    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   |
| C1334    | 1-104-665-11 | ELECT       | 100uF 20% 16V              | C1392    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          |
| C1335    | 1-164-159-11 | CERAMIC     | 0. 1uF 50V                 | C1394    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   |
| C1336    | 1-126-961-11 | ELECT       | 2. 2uF 20% 50V (EXCEPT CH) | C1394    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          |
| C1336    | 1-126-045-11 | ELECT       | 2. 2uF 20% 50V (CH)        | C1401    | 1-126-963-11 | ELECT       | 4. 7uF 20% 50V (EXCEPT CH) |
| C1337    | 1-104-666-11 | ELECT       | 220uF 20% 10V (EXCEPT CH)  | C1401    | 1-126-047-81 | ELECT       | 4. 7uF 20% 50V (CH)        |
| C1337    | 1-124-995-11 | ELECT       | 220uF 20% 10V (CH)         | C1402    | 1-102-106-00 | CERAMIC     | 100PF 10% 50V              |
| C1338    | 1-136-165-00 | FILM        | 0. 1uF 5% 50V              | C1406    | 1-136-159-00 | FILM        | 0. 033uF 5% 50V            |
| C1339    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   | C1407    | 1-136-171-00 | FILM        | 0. 33uF 5% 50V             |
| C1339    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          | C1408    | 1-104-664-11 | ELECT       | 47uF 20% 16V (EXCEPT CH)   |
| C1340    | 1-130-469-00 | MYLAR       | 680PF 5% 50V               | C1408    | 1-126-008-51 | ELECT       | 47uF 20% 16V (CH)          |
| C1341    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   | C1409    | 1-136-163-00 | FILM        | 0. 068uF 5% 50V            |
| C1341    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          | C1410    | 1-136-154-00 | FILM        | 0. 012uF 5% 50V            |
| C1342    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   | C1411    | 1-130-476-00 | MYLAR       | 0. 0027uF 5% 50V           |
| C1342    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          | C1412    | 1-136-157-00 | FILM        | 0. 022uF 5% 50V            |
| C1343    | 1-164-159-11 | CERAMIC     | 0. 1uF 50V                 | C1413    | 1-102-947-00 | CERAMIC     | 10PF 5% 50V                |
| C1344    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   | C1414    | 1-102-947-00 | CERAMIC     | 10PF 5% 50V                |
| C1344    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          | C1415    | 1-124-907-11 | ELECT       | 10uF 20% 50V (EXCEPT CH)   |
| C1345    | 1-164-159-11 | CERAMIC     | 0. 1uF 50V                 | C1415    | 1-126-048-81 | ELECT       | 10uF 20% 50V (CH)          |
| C1346    | 1-164-159-11 | CERAMIC     | 0. 1uF 50V                 | C1416    | 1-102-947-00 | CERAMIC     | 10PF 5% 50V                |
| C1347    | 1-136-173-00 | FILM        | 0. 47uF 5% 50V             | C1452    | 1-102-106-00 | CERAMIC     | 100PF 10% 50V              |
| C1352    | 1-104-666-11 | ELECT       | 220uF 20% 10V (EXCEPT CH)  | C1456    | 1-136-159-00 | FILM        | 0. 033uF 5% 50V            |
| C1352    | 1-124-995-11 | ELECT       | 220uF 20% 10V (CH)         | C1457    | 1-136-171-00 | FILM        | 0. 33uF 5% 50V             |
| C1353    | 1-136-159-00 | FILM        | 0. 033uF 5% 50V            | C1458    | 1-104-664-11 | ELECT       | 47uF 20% 16V (EXCEPT CH)   |
| C1354    | 1-130-473-00 | MYLAR       | 0. 0015uF 5% 50V           | C1458    | 1-126-008-51 | ELECT       | 47uF 20% 16V (CH)          |
| C1355    | 1-136-159-00 | FILM        | 0. 033uF 5% 50V            | C1459    | 1-136-163-00 | FILM        | 0. 068uF 5% 50V            |
| C1356    | 1-124-903-11 | ELECT       | 1uF 20% 50V (EXCEPT CH)    | C1460    | 1-136-154-00 | FILM        | 0. 012uF 5% 50V            |
| C1356    | 1-126-044-11 | ELECT       | 1uF 20% 50V (CH)           | C1461    | 1-130-476-00 | MYLAR       | 0. 0027uF 5% 50V           |
| C1357    | 1-104-666-11 | ELECT       | 220uF 20% 10V (EXCEPT CH)  | C1462    | 1-136-157-00 | FILM        | 0. 022uF 5% 50V            |
|          |              |             |                            | C1463    | 1-102-947-00 | CERAMIC     | 10PF 5% 50V                |
|          |              |             |                            | C1464    | 1-102-947-00 | CERAMIC     | 10PF 5% 50V                |

| Ref. No.      | Part No.     | Description                           | Remark                      |
|---------------|--------------|---------------------------------------|-----------------------------|
| C1465         | 1-124-907-11 | ELECT                                 | 10uF 20% 50V<br>(EXCEPT CH) |
| C1465         | 1-126-048-81 | ELECT                                 | 10uF 20% 50V<br>(CH)        |
| C1466         | 1-102-947-00 | CERAMIC                               | 10PF 5% 50V                 |
| C1470         | 1-136-165-00 | FILM                                  | 0.1uF 5% 50V                |
| C1471         | 1-164-159-11 | CERAMIC                               | 0.1uF 50V                   |
| C1472         | 1-164-159-11 | CERAMIC                               | 0.1uF 50V                   |
| C1473         | 1-162-282-31 | CERAMIC                               | 100PF 10% 50V               |
| C1495         | 1-164-159-11 | CERAMIC                               | 0.1uF 50V                   |
| C1496         | 1-104-664-11 | ELECT                                 | 47uF 20% 16V<br>(EXCEPT CH) |
| C1496         | 1-126-008-51 | ELECT                                 | 47uF 20% 16V<br>(CH)        |
| C1497         | 1-104-664-11 | ELECT                                 | 47uF 20% 16V<br>(EXCEPT CH) |
| C1497         | 1-126-008-51 | ELECT                                 | 47uF 20% 16V<br>(CH)        |
| C1498         | 1-162-282-31 | CERAMIC                               | 100PF 10% 50V               |
| < CONNECTOR > |              |                                       |                             |
| CND451        | 1-506-615-11 | PIN, CONNECTOR 9P                     |                             |
| * CND454      | 1-564-340-61 | PIN, CONNECTOR 6P                     |                             |
| * CND455      | 1-564-499-11 | PIN, CONNECTOR 6P                     |                             |
| * CND456      | 1-564-342-11 | PIN, CONNECTOR 8P                     |                             |
| * CND457      | 1-564-338-71 | PIN, CONNECTOR 4P (US, CND)           |                             |
| * CND457      | 1-564-338-00 | PIN, CONNECTOR 4P (AUS)               |                             |
| CND470        | 1-564-501-11 | PIN, CONNECTOR 8P                     |                             |
| * CND471      | 1-564-500-11 | PIN, CONNECTOR 7P                     |                             |
| CNE452        | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P      | (US, CND, AUS)              |
| CNE452        | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P (CH) |                             |
| * CNS458      | 1-580-974-11 | CONNECTOR, BOARD TO BOARD             |                             |
| * CNS459      | 1-580-974-11 | CONNECTOR, BOARD TO BOARD             |                             |
| < DIODE >     |              |                                       |                             |
| D1104         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1105         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1161         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1162         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1163         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1164         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1401         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| D1402         | 8-719-987-63 | DIODE 1N4148M                         |                             |
| < FRONTEND >  |              |                                       |                             |
| FE1301        | 1-233-666-11 | ENCAPSULATED COMPONENT (US, CND)      |                             |
| FE1301        | 1-233-670-11 | ENCAPSULATED COMPONENT (AUS)          |                             |

| Ref. No.       | Part No.     | Description   | Remark                       |
|----------------|--------------|---------------|------------------------------|
| < IC >         |              |               |                              |
| IC1301         | 8-759-248-74 | IC LA2785     |                              |
| IC1302         | 8-759-341-23 | IC LV1011     |                              |
| IC1303         | 8-759-634-51 | IC M5218AP    |                              |
| IC1304         | 8-759-701-59 | IC NJM78M09FA |                              |
| IC1401         | 8-759-072-32 | IC TC9184P    |                              |
| IC1402         | 8-759-634-51 | IC M5218AP    |                              |
| IC1403         | 8-759-060-73 | IC NJU3713D   |                              |
| < COIL >       |              |               |                              |
| L1301          | 1-410-509-11 | INDUCTOR      | 10uH                         |
| L1302          | 1-410-509-11 | INDUCTOR      | 10uH                         |
| < TRANSISTOR > |              |               |                              |
| Q401           | 8-729-141-30 | TRANSISTOR    | 2SC3623A-LK                  |
| Q402           | 8-729-202-67 | TRANSISTOR    | 2SK246-GR3                   |
| Q451           | 8-729-141-30 | TRANSISTOR    | 2SC3623A-LK                  |
| Q452           | 8-729-202-67 | TRANSISTOR    | 2SK246-GR3                   |
| Q1401          | 8-729-900-36 | TRANSISTOR    | DTC124ES                     |
| Q1402          | 8-729-900-63 | TRANSISTOR    | DTA124ES                     |
| Q1403          | 8-729-900-63 | TRANSISTOR    | DTA124ES                     |
| Q1404          | 8-729-900-63 | TRANSISTOR    | DTA124ES                     |
| Q1410          | 8-729-900-63 | TRANSISTOR    | DTA124ES                     |
| < RESISTOR >   |              |               |                              |
| R1151          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1152          | 1-249-413-11 | CARBON        | 470 5% 1/4W                  |
| R1153          | 1-249-417-11 | CARBON        | 1K 5% 1/4W<br>(US, CND, AUS) |
| R1154          | 1-249-417-11 | CARBON        | 1K 5% 1/4W<br>(US, CND, AUS) |
| R1155          | 1-249-417-11 | CARBON        | 1K 5% 1/4W<br>(US, CND, AUS) |
| R1161          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1307          | 1-249-417-11 | CARBON        | 1K 5% 1/4W                   |
| R1308          | 1-249-431-11 | CARBON        | 15K 5% 1/4W                  |
| R1310          | 1-249-436-11 | CARBON        | 39K 5% 1/4W                  |
| R1311          | 1-249-439-11 | CARBON        | 68K 5% 1/4W                  |
| R1312          | 1-247-903-00 | CARBON        | 1M 5% 1/4W                   |
| R1313          | 1-249-441-11 | CARBON        | 100K 5% 1/4W                 |
| R1314          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1315          | 1-249-433-11 | CARBON        | 22K 5% 1/4W                  |
| R1316          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1363          | 1-249-441-11 | CARBON        | 100K 5% 1/4W                 |
| R1364          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1365          | 1-249-433-11 | CARBON        | 22K 5% 1/4W                  |
| R1366          | 1-249-429-11 | CARBON        | 10K 5% 1/4W                  |
| R1401          | 1-249-426-11 | CARBON        | 5.6K 5% 1/4W                 |

# SURROUND

# SWP

| Ref. No. | Part No.     | Description | Remark        |
|----------|--------------|-------------|---------------|
| R1402    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1403    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1404    | 1-249-440-11 | CARBON      | 82K 5% 1/4W   |
| R1405    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1406    | 1-249-413-11 | CARBON      | 470 5% 1/4W   |
| R1407    | 1-249-427-11 | CARBON      | 6. 8K 5% 1/4W |
| R1408    | 1-247-883-00 | CARBON      | 150K 5% 1/4W  |
| R1409    | 1-247-843-11 | CARBON      | 3. 3K 5% 1/4W |
| R1410    | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |
| R1411    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1412    | 1-249-426-11 | CARBON      | 5. 6K 5% 1/4W |
| R1413    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1414    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1415    | 1-249-434-11 | CARBON      | 27K 5% 1/4W   |
| R1416    | 1-249-426-11 | CARBON      | 5. 6K 5% 1/4W |
| R1417    | 1-249-418-11 | CARBON      | 1. 2K 5% 1/4W |
| R1418    | 1-247-895-00 | CARBON      | 470K 5% 1/4W  |
| R1419    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1420    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1430    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1451    | 1-249-426-11 | CARBON      | 5. 6K 5% 1/4W |
| R1452    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1455    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1456    | 1-249-413-11 | CARBON      | 470 5% 1/4W   |
| R1457    | 1-249-427-11 | CARBON      | 6. 8K 5% 1/4W |
| R1458    | 1-247-883-00 | CARBON      | 150K 5% 1/4W  |
| R1459    | 1-247-843-11 | CARBON      | 3. 3K 5% 1/4W |
| R1460    | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |
| R1461    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1462    | 1-249-426-11 | CARBON      | 5. 6K 5% 1/4W |
| R1463    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1465    | 1-249-434-11 | CARBON      | 27K 5% 1/4W   |
| R1466    | 1-249-426-11 | CARBON      | 5. 6K 5% 1/4W |
| R1467    | 1-249-418-11 | CARBON      | 1. 2K 5% 1/4W |
| R1468    | 1-247-895-00 | CARBON      | 470K 5% 1/4W  |
| R1470    | 1-249-440-11 | CARBON      | 82K 5% 1/4W   |
| R1471    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1472    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1473    | 1-249-425-11 | CARBON      | 4. 7K 5% 1/4W |
| R1474    | 1-249-425-11 | CARBON      | 4. 7K 5% 1/4W |
| R1475    | 1-249-425-11 | CARBON      | 4. 7K 5% 1/4W |
| R1476    | 1-249-425-11 | CARBON      | 4. 7K 5% 1/4W |
| R1477    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1478    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1479    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1480    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1494    | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |

| Ref. No.      | Part No.     | Description                     | Remark           |
|---------------|--------------|---------------------------------|------------------|
| R1495         | 1-249-425-11 | CARBON                          | 4. 7K 5% 1/4W    |
| R1496         | 1-249-419-11 | CARBON                          | 1. 5K 5% 1/4W    |
| R1497         | 1-249-419-11 | CARBON                          | 1. 5K 5% 1/4W    |
| R1498         | 1-249-425-11 | CARBON                          | 4. 7K 5% 1/4W    |
| < TERMINAL >  |              |                                 |                  |
| TM1301        | 1-537-769-11 | TERMINAL BOARD (ANTENNA)        | (US, CND)        |
| TM1301        | 1-537-488-11 | TERMINAL BOARD (ANTENNA)        | (AUS)            |
| < TEST PIN >  |              |                                 |                  |
| * TP400       | 1-560-200-00 | BASE POST, MCD CONNECTOR 2P     |                  |
| < VIBRATOR >  |              |                                 |                  |
| X301          | 1-579-952-21 | VIBRATOR, CERAMIC (8.00MHz)     |                  |
| *****         |              |                                 |                  |
| *             | A-4390-869-A | SWP BOARD, COMPLETE (EXCEPT CH) |                  |
| *             | A-4390-868-A | SWP BOARD, COMPLETE (CH)        |                  |
| *****         |              |                                 |                  |
| < CAPACITOR > |              |                                 |                  |
| C500          | 1-162-294-31 | CERAMIC                         | 0. 001uF 10% 50V |
| C501          | 1-136-153-00 | FILM                            | 0. 01uF 5% 50V   |
| C503          | 1-124-907-11 | ELECT                           | 10uF 20% 50V     |
| (EXCEPT CH)   |              |                                 |                  |
| C503          | 1-126-048-81 | ELECT                           | 10uF 20% 50V     |
| (CH)          |              |                                 |                  |
| C505          | 1-124-925-11 | ELECT                           | 2. 2uF 20% 50V   |
| C509          | 1-136-159-00 | FILM                            | 0. 033uF 5% 50V  |
| (EXCEPT CH)   |              |                                 |                  |
| C510          | 1-136-159-00 | FILM                            | 0. 033uF 5% 50V  |
| (EXCEPT CH)   |              |                                 |                  |
| C511          | 1-162-294-31 | CERAMIC                         | 0. 001uF 10% 50V |
| (EXCEPT CH)   |              |                                 |                  |
| C512          | 1-124-907-11 | ELECT                           | 10uF 20% 50V     |
| (EXCEPT CH)   |              |                                 |                  |
| C512          | 1-126-048-81 | ELECT                           | 10uF 20% 50V     |
| (CH)          |              |                                 |                  |
| C513          | 1-124-907-11 | ELECT                           | 10uF 20% 50V     |
| (EXCEPT CH)   |              |                                 |                  |
| C513          | 1-126-048-81 | ELECT                           | 10uF 20% 50V     |
| (CH)          |              |                                 |                  |
| C515          | 1-124-907-11 | ELECT                           | 10uF 20% 50V     |
| (EXCEPT CH)   |              |                                 |                  |
| C515          | 1-126-048-81 | ELECT                           | 10uF 20% 50V     |
| (CH)          |              |                                 |                  |
| C516          | 1-124-907-11 | ELECT                           | 10uF 20% 50V     |
| (EXCEPT CH)   |              |                                 |                  |
| C516          | 1-126-048-81 | ELECT                           | 10uF 20% 50V     |
| (CH)          |              |                                 |                  |

| Ref. No.      | Part No.     | Description                       | Remark                        | Ref. No.       | Part No.     | Description                        | Remark |
|---------------|--------------|-----------------------------------|-------------------------------|----------------|--------------|------------------------------------|--------|
| C548          | 1-162-282-31 | CERAMIC                           | 100PF 10% 50V                 | IC511          | 8-759-634-51 | IC M5218AP                         |        |
| C549          | 1-124-907-11 | ELECT                             | 10uF 20% 50V<br>(EXCEPT CH)   | IC512          | 8-759-634-51 | IC M5218AP                         |        |
| C549          | 1-126-048-81 | ELECT                             | 10uF 20% 50V<br>(CH)          | < TRANSISTOR > |              |                                    |        |
| C550          | 1-162-294-31 | CERAMIC                           | 0.001uF 10% 50V               | Q501           | 8-729-620-05 | TRANSISTOR 2SC2603-EF              |        |
| C551          | 1-136-153-00 | FILM                              | 0.01uF 5% 50V                 | Q502           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C553          | 1-124-907-11 | ELECT                             | 10uF 20% 50V<br>(EXCEPT CH)   | Q503           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C553          | 1-126-048-81 | ELECT                             | 10uF 20% 50V<br>(CH)          | Q504           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C559          | 1-136-159-00 | FILM                              | 0.033uF 5% 50V<br>(EXCEPT CH) | Q505           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C560          | 1-136-159-00 | FILM                              | 0.033uF 5% 50V<br>(EXCEPT CH) | Q506           | 8-729-620-05 | TRANSISTOR 2SC2603-EF              |        |
| C562          | 1-124-907-11 | ELECT                             | 10uF 20% 50V<br>(EXCEPT CH)   | Q508           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C562          | 1-126-048-81 | ELECT                             | 10uF 20% 50V<br>(CH)          | Q509           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C563          | 1-124-907-11 | ELECT                             | 10uF 20% 50V<br>(EXCEPT CH)   | Q510           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C563          | 1-126-048-81 | ELECT                             | 10uF 20% 50V<br>(CH)          | Q552           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C599          | 1-124-907-11 | ELECT                             | 10uF 20% 50V<br>(EXCEPT CH)   | Q553           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| C599          | 1-126-048-81 | ELECT                             | 10uF 20% 50V<br>(CH)          | Q554           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| < CONNECTOR > |              |                                   |                               | Q558           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| CNE503        | 1-770-970-11 | PIN, CONNECTOR (PCB) (V TYPE) 10P |                               | Q559           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| CNE505        | 1-770-969-11 | PIN, CONNECTOR (PCB) (V TYPE) 9P  |                               | Q560           | 8-729-141-30 | TRANSISTOR 2SC3623A-LK             |        |
| CNE506        | 1-770-969-11 | PIN, CONNECTOR (PCB) (V TYPE) 9P  |                               | < RESISTOR >   |              |                                    |        |
| CNS201        | 1-695-096-11 | SOCKET, CONNECTOR 15P             |                               | R500           | 1-249-425-11 | CARBON 4.7K 5% 1/4W                |        |
| CNS504        | 1-750-179-11 | SOCKET, CONNECTOR 5P              |                               | R501           | 1-249-429-11 | CARBON 10K 5% 1/4W                 |        |
| CNS508        | 1-750-983-11 | CONNECTOR, BOARD TO BOARD 15P     |                               | R502           | 1-249-429-11 | CARBON 10K 5% 1/4W                 |        |
| CNS509        | 1-750-983-11 | CONNECTOR, BOARD TO BOARD 15P     |                               | R503           | 1-249-431-11 | CARBON 15K 5% 1/4W                 |        |
| < DIODE >     |              |                                   |                               | R504           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
| D111          | 8-719-987-63 | DIODE 1N4148M                     |                               | R505           | 1-249-413-11 | CARBON 470 5% 1/4W                 |        |
| D112          | 8-719-987-63 | DIODE 1N4148M                     |                               | R506           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
| D501          | 8-719-987-63 | DIODE 1N4148M                     |                               | R507           | 1-249-413-11 | CARBON 470 5% 1/4W                 |        |
| D503          | 8-719-987-63 | DIODE 1N4148M                     |                               | R508           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
| < IC >        |              |                                   |                               | R512           | 1-249-441-11 | CARBON 100K 5% 1/4W                |        |
| IC501         | 8-759-805-13 | IC LC7821                         |                               | R513           | 1-249-413-11 | CARBON 470 5% 1/4W                 |        |
| IC502         | 8-759-805-15 | IC LC7823                         |                               | R514           | 1-249-413-11 | CARBON 470 5% 1/4W                 |        |
| IC503         | 8-759-634-51 | IC M5218AP                        |                               | R515           | 1-249-413-11 | CARBON 470 5% 1/4W                 |        |
| IC508         | 8-759-708-05 | IC NJM78L05A                      |                               | R516           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
| IC509         | 8-759-805-14 | IC LC7822 (EXCEPT CH)             |                               | R517           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
| IC510         | 8-759-634-51 | IC M5218AP (EXCEPT CH)            |                               | R518           | 1-249-426-11 | CARBON 5.6K 5% 1/4W                |        |
|               |              |                                   |                               | R519           | 1-249-436-11 | CARBON 39K 5% 1/4W<br>(EXCEPT CH)  |        |
|               |              |                                   |                               | R520           | 1-247-876-11 | CARBON 75K 5% 1/4W<br>(EXCEPT CH)  |        |
|               |              |                                   |                               | R521           | 1-249-425-11 | CARBON 4.7K 5% 1/4W<br>(EXCEPT CH) |        |
|               |              |                                   |                               | R522           | 1-249-441-11 | CARBON 100K 5% 1/4W                |        |
|               |              |                                   |                               | R523           | 1-249-417-11 | CARBON 1K 5% 1/4W                  |        |
|               |              |                                   |                               | R524           | 1-249-429-11 | CARBON 10K 5% 1/4W                 |        |
|               |              |                                   |                               | R525           | 1-249-417-11 | CARBON 1K 5% 1/4W                  |        |
|               |              |                                   |                               | R526           | 1-249-437-11 | CARBON 47K 5% 1/4W                 |        |
|               |              |                                   |                               | R528           | 1-249-441-11 | CARBON 100K 5% 1/4W                |        |

## VIDEO

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| Ref. No. | Part No.     | Description | Remark       |
|----------|--------------|-------------|--------------|
| R876     | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R877     | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R878     | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R879     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R880     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R881     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R882     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R883     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R885     | 1-249-403-11 | CARBON      | 68 5% 1/4W   |
| R888     | 1-249-430-11 | CARBON      | 12K 5% 1/4W  |
| R889     | 1-249-430-11 | CARBON      | 12K 5% 1/4W  |
| R890     | 1-249-430-11 | CARBON      | 12K 5% 1/4W  |
| R8009    | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R8010    | 1-249-409-11 | CARBON      | 220 5% 1/4W  |

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\* 1-661-563-11 VOLUME BOARD

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7-682-548-04 SCREW +BVT 3X8 (S)

&lt; CONNECTOR &gt;

CNP107 1-770-389-11 PIN, CONNECTOR (PC BOARD) 5P

CNP108 1-770-388-11 PIN, CONNECTOR (PC BOARD) 4P

&lt; VARIABLE RESISTOR &gt;

RV501 1-225-232-11 RES, VAR, CARBON 100KX6 (MASTER VOL)

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MISCELLANEOUS

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△67 1-569-008-21 ADAPTOR, CONVERSION 2P (CH)

△CNP901 1-690-608-11 CORD, POWER (AUS)

△CNP901 1-769-743-11 CORD, POWER (US, CND)

△CNP901 1-776-095-11 CORD, POWER (CH)

△CNS901 1-251-078-11 OUTLET, AC. (AUS)

△CNS901 1-526-794-11 OUTLET, AC (CH)

△T1 1-429-589-11 TRANSFORMER, POWER (US)

△T1 1-429-590-11 TRANSFORMER, POWER (AUS)

△T1 1-429-594-11 TRANSFORMER, POWER (CH)

△T1 1-429-596-11 TRANSFORMER, POWER (CND)

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HARDWARE LIST

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#1 7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3

#2 7-682-548-04 SCREW +BVT 3X8 (S)

#3 7-685-645-79 SCREW +BVTP 3X6 TYPE2 IT-3

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| Ref. No. | Part No.     | Description                                                     | Remark |
|----------|--------------|-----------------------------------------------------------------|--------|
|          |              | ACCESSORIES & PACKING MATERIALS                                 |        |
|          |              | *****                                                           |        |
|          | 1-473-629-11 | REMOTE COMMANDER (RM-P362)                                      |        |
|          | 1-501-594-11 | ANTENNA (FM) (AUS)                                              |        |
|          | 1-501-721-11 | ANTENNA (LOOP) (GA7ES)                                          |        |
|          | 3-856-158-31 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (VA7ES) |        |
|          | 3-856-160-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (GA7ES)                   |        |
| *        | 4-972-386-01 | CUSHION                                                         |        |
|          | 4-983-536-01 | LID, BATTERY CASE (for RM-P362)                                 |        |
| *        | 4-985-238-01 | INDIVIDUAL CARTON (GA7ES)                                       |        |
| *        | 4-985-758-01 | INDIVIDUAL CARTON (VA7ES)                                       |        |

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

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

