


STR-DA80ES/TA-V88ES/TA-VA80ES

SERVICE MANUAL



Photo: STR-DA80ES

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US Model
Canadian Model
STR-DA80ES
AEP Model
UK Model
TA-VA80ES
E Model
STR-DA80ES/TA-VA80ES
Australian Model
PX Model
STR-DA80ES
Chinese Model
TA-V88ES

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20-20,000 Hz, rated 100 watts per channel, minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output (US model).

Amplifier section

POWER OUTPUT

Stereo mode

STR-DA80ES:
(8 ohms 20 Hz-20 kHz,
THD 0.05 %)
100 W + 100 W
TA-V88ES:
(6 ohms at 1 kHz, THD 0.7%)
100 W + 100 W
TA-VA80ES:
(4 ohms at 1 kHz, THD 0.7%)
100 W + 100 W

Surround mode

STR-DA80ES:
(8 ohms at 1 kHz,
THD 0.05 %)
Front : 100 W + 100 W
Center¹⁾ : 100 W
Rear¹⁾ : 100 W + 100 W
TA-V88ES:
(6 ohms at 1 kHz, THD 0.7%)
Front : 100 W + 100 W
Center¹⁾ : 100 W
Rear¹⁾ : 100 W + 100 W
TA-VA80ES:
(4 ohms at 1 kHz, THD 0.7%)
Front : 100 W + 100 W
Center¹⁾ : 100 W
Rear¹⁾ : 100 W + 100 W

Dynamic power output

¹⁾ Depending on the sound field settings and the source, sound will not be output.

155 W + 155 W, 8 ohms
220 W + 220 W, 4 ohms
(STR-DA80ES: US, Canadian)

Harmonic distortion at rated output

STR-DA80ES:
Less than 0.05 % (with
DIRECT PASS on)
TA-V88ES/TA-VA80ES:
Less than 0.7 % (with
DIRECT PASS on)

Frequency response

PHONO:
RIAA equalization curve
±0.5 dB
CD, TAPE, DAT/MD,
VIDEO 1, 2, 3, LD/DVD,
TV (/DBS):
10 Hz-50 kHz ± 0.5 dB (with
DIRECT PASS on)

Inputs

| | Sensitivity | Impedance | S/N (weighting network, input level) |
|-----------------------------|---|-------------|---|
| PHONO | 2.5 mV | 50 kilohms | 75 dB (A, 2.5 mV) |
| CD | 200 mV (STR-DA80ES) 150 mV (TA-V88ES/VA80ES) | | |
| TAPE, DAT/MD, VIDEO 1, 2, 3 | 200 mV | 50 kilohms | 82 dB (A, 150 mV) |
| LD, TV/DBS | 150 mV | | |
| TUNER | 150 mV | | |
| LD DVD | | | |
| AC-3 RF IN | — | 75 Ω | 100 dB (A, 20 kHz, LPF) |
| LD DVD | | | |
| COAXIAL IN | 0.5 V _{p-p} | 75 Ω | 100 dB (A, 20 kHz, LPF) |
| LD DVD/TV (DBS)/CD/DAT MD | | | |
| OPTICAL IN | — | — | 100 dB (A, 20 kHz, LPF) |

STR-DA80ES

FM STEREO/FM-AM RECEIVER

TA-V88ES/TA-VA80ES

INTEGRATED AV AMPLIFIER



SONY®

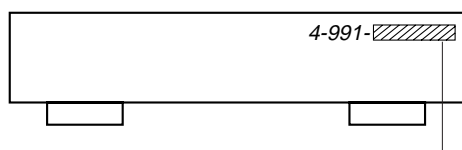
| | | | | |
|--|---|--|--|--|
| Outputs | REC OUT: DAT/MD, TAPE Voltage: 200 mV (STR-DA80ES) 150 mV (TA-V88ES/VA80ES) Impedance: 1 kilohm AUDIO OUT: VIDEO 1, 2 Voltage: 200 mV (STR-DA80ES) 150 mV (TA-V88ES/VA80ES) Impedance: 1 kilohm PRE OUT: Voltage: 2 Vrms Impedance: 1 kilohm PHONES: Accepts low and high impedance headphones | FM tuner section (STR-DA80ES) Tuning range 87.5-108.0 MHz Antenna terminals 75 ohms, unbalanced Sensitivity Mono: 18.3 dBf, 4.5 μV Stereo: 38.3 dBf, 45 μV Usable sensitivity 11.2 dBf, 2 μV (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 dB Selectivity 60 dB at 400 kHz | | Outputs VIDEO: 1 Vp-p 75 ohms S VIDEO: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms |
| | BASS BOOST +6 dB at 70 Hz (STR-DA80ES) +10 dB at 70 Hz (TA-V88ES/VA80ES) | | | General System Tuner section: PLL quartz-locked digital synthesizer system (STR-DA80ES) Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complementary parallel P.P. Power requirements US and Canadian models: 120 V AC, 60 Hz Australian model: 240 V AC, 50 Hz European models: 230 V AC, 50 Hz Other models: 120/220/240 V AC selectable, 50/60 Hz Power consumption STR-DA80ES: US model: 340 W Canadian model: 500 VA Australian model: 380 W Other models: 380 W TA-V88ES: 370 W TA-VA80ES: 380 W AC outlets STR-DA80ES: US and Canadian models: 2 switched, total 120 W Australian model: 1 switched, maximum 100 W Other models: 2 switched, total 100 W TA-V88ES/VA80ES: 1 switched, maximum 100 W Dimensions 430 × 160 × 435 (440 ⁴⁾) mm (17 × 6 ³ / ₈ × 17 ¹ / ₄ (17 ³ / ₈) inches) including projecting parts and controls ⁴⁾ When the front cover is open Mass (Approx.) 15.9 kg (35 lb 1 oz) (STR-DA80ES) 15.6 kg (TA-V88ES/VA80ES) Supplied accessories FM wire antenna (1) (STR-DA80ES) AM loop antenna (1) (STR-DA80ES) Remote commander RM-P501 (remote) (1) Size AA (R6) batteries (2) Design and specifications are sbject to |
| Digital signal processor section Modulation (A/D conversion) High Density Linear Converter Demodulation (D/A conversion) High Density Linear Converter (Advanced pulse D/A converter) Sampling frequency 48 kHz Surround LFE MIX: MUTE, -20 - 0 dB, 0.5 dB step D.RANGE COMP: OFF, 0.1 - 0.9, STD, MAX REAR level: -20 - +10 dB, 0.5 dB step CENTER level: -20 - +10 dB, 0.5 dB step SUB WOOFER level: -20 - +10 dB, 0.5 dB step EFFECT: 21-step adjustable WALL: 17-step adjustable SEAT F/R: 17-step adjustable L/R: 17-step adjustable REBERB time: 17-step adjustable Equalizer BAND: BASS/TREBLE Turnover frequency: Bass: 99 Hz-992 Hz Treble: 1.0 kHz-8.6 kHz Level: ±10 dB, 0.5 dB step | | AM tuner section (STR-DA80ES) Tuning range With 10 kHz interval: 530-1710 kHz (US and Canadian models ³⁾) 530-1610 kHz (models for all other countries except for Australia) With 9 kHz interval: 531-1710 kHz (US and Canadian models) 531-1602 kHz (Australian model and models for all other countries ³⁾) 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 ³⁾ You can change the AM tuning interval to 9 kHz (US and Canadian models) or to 10 kHz (models for all other countries except for Australia). After tuning in any AM station, turn off the receiver. Hold down the PRE- SET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To re- set the interval to 10 kHz (or 9 kHz), repeat the procedure. Video section Inputs VIDEO: 1 Vp-p 75 ohms S VIDEO: Y: 1 Vp-; 75 ohms C: 0.286 Vp-p 75 ohms | | |

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MODEL IDENTIFICATION

– BACK PANEL –



| | | | |
|------------|-----------------------------------|---------|---|
| STR-DA80ES | US Model | : 373-3 | □ |
| STR-DA80ES | Canadian Model | : 373-4 | □ |
| STR-DA80ES | Australian Model | : 373-5 | □ |
| STR-DA80ES | E, PX Model | : 373-6 | □ |
| TA-V88ES | Chinese Model | : 374-4 | □ |
| TA-VA80ES | AEP, UK, German, EE, CIS Model | : 374-0 | □ |
| TA-VA80ES | E, Malaysia, Singapore Model | : 374-3 | □ |

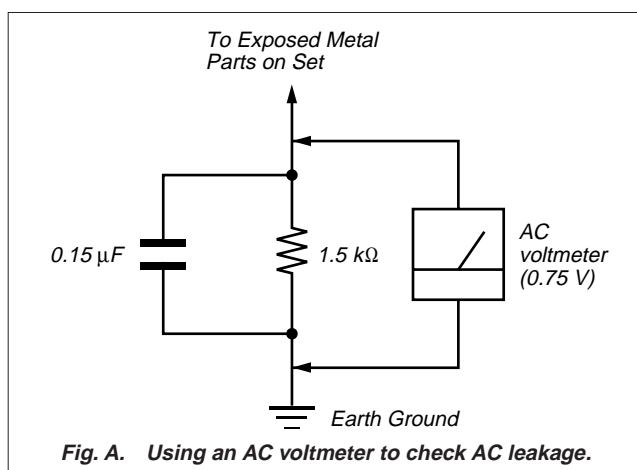
SAFETY CHECK-OUT

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

LEAKAGE TEST

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

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



SAFETY-RELATED COMPONENT WARNING!!

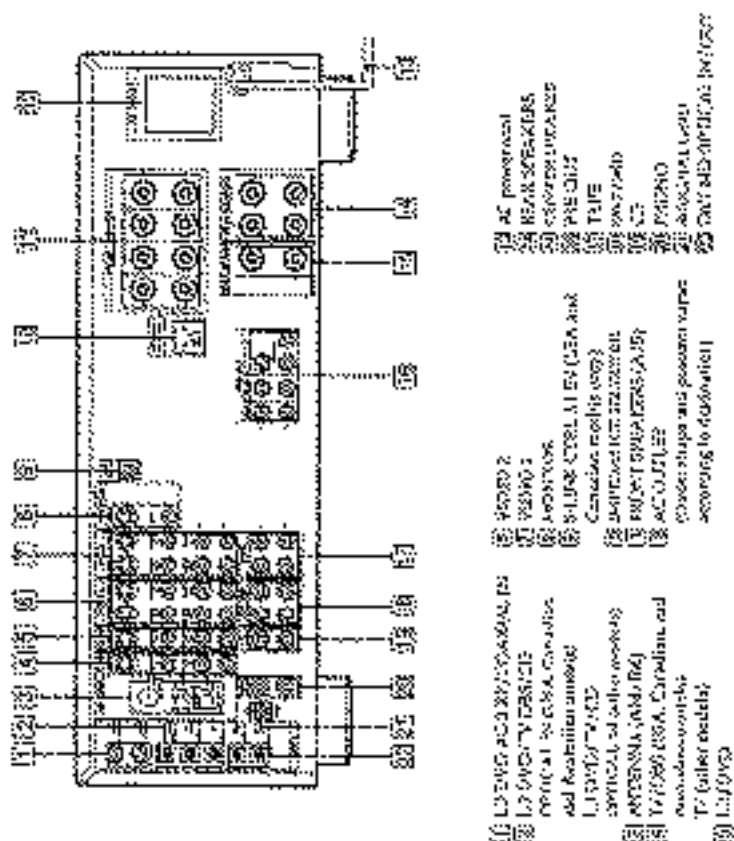
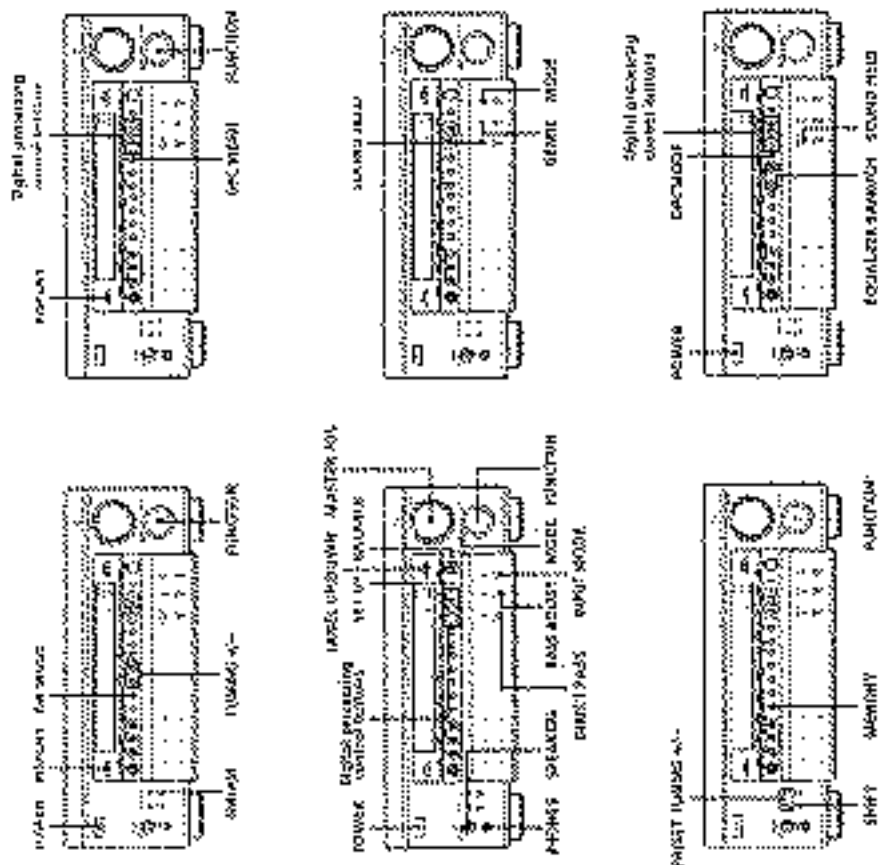
COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

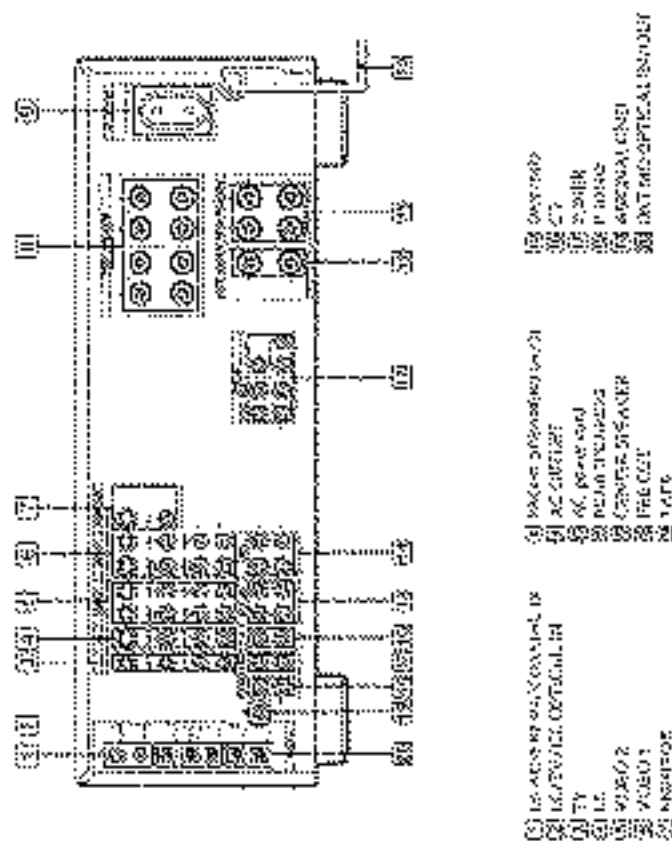
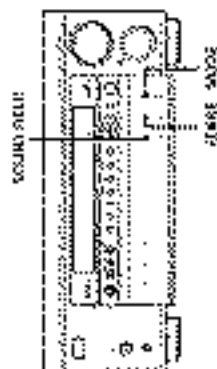
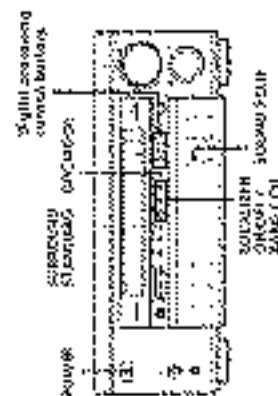
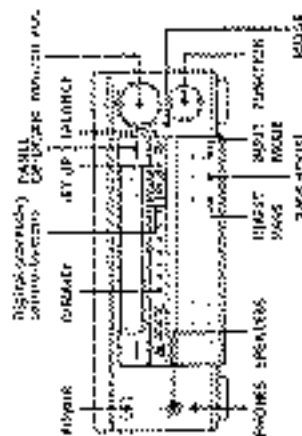
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

- STR-DA80ES

Application of the proposed model to the data of the 1990s



Rear Panel Descriptions



- 1 IS-AC/DC POWER SUPPLY
- 2 IS-AC/DC POWER SUPPLY
- 3 TV
- 4 IL
- 5 VIDEO 2
- 6 VIDEO 1
- 7 INSULATOR

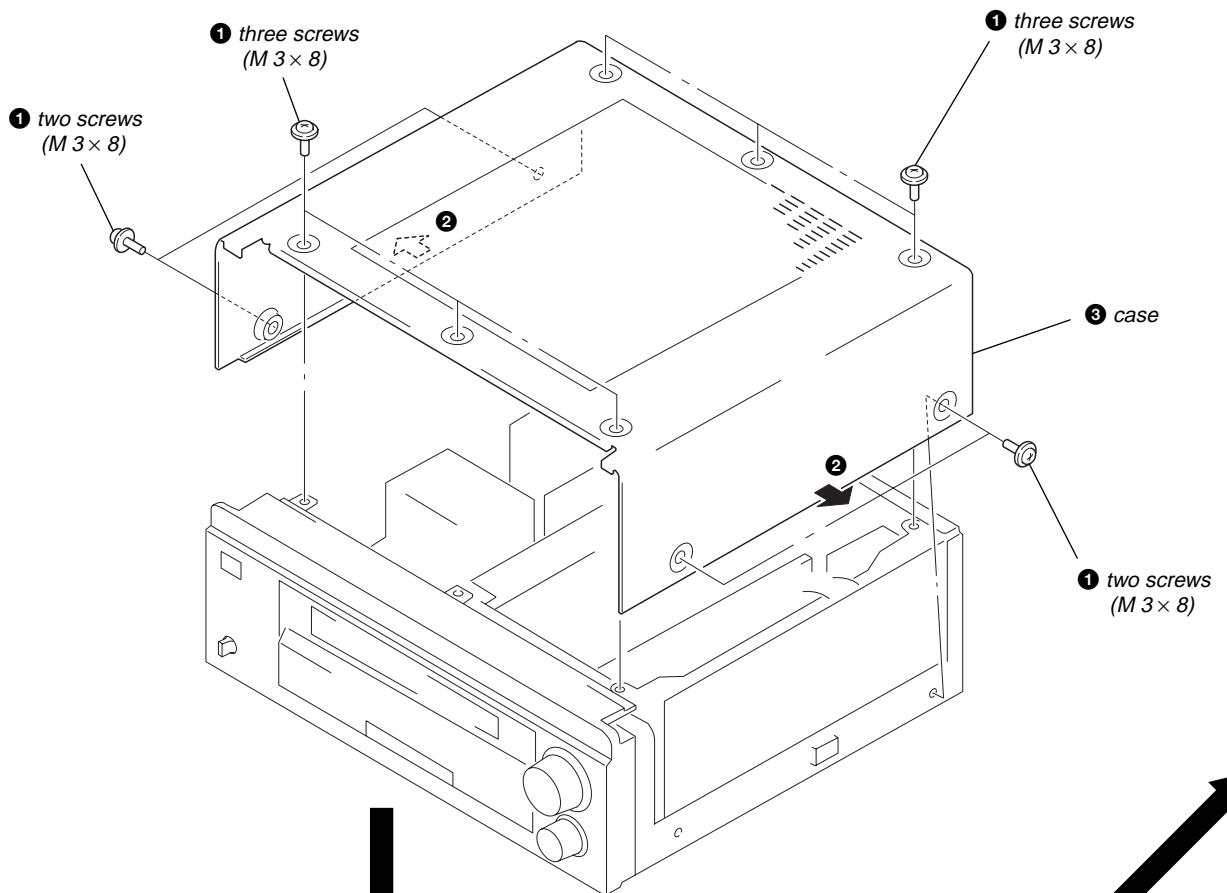
- 8 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 9 AC POWER
- 10 AC POWER
- 11 AC POWER
- 12 AC POWER
- 13 AC POWER
- 14 AC POWER
- 15 AC POWER
- 16 AC POWER
- 17 AC POWER
- 18 AC POWER
- 19 AC POWER
- 20 AC POWER

- 21 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 22 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 23 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 24 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 25 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 26 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 27 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 28 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 29 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
- 30 VIDEO 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20

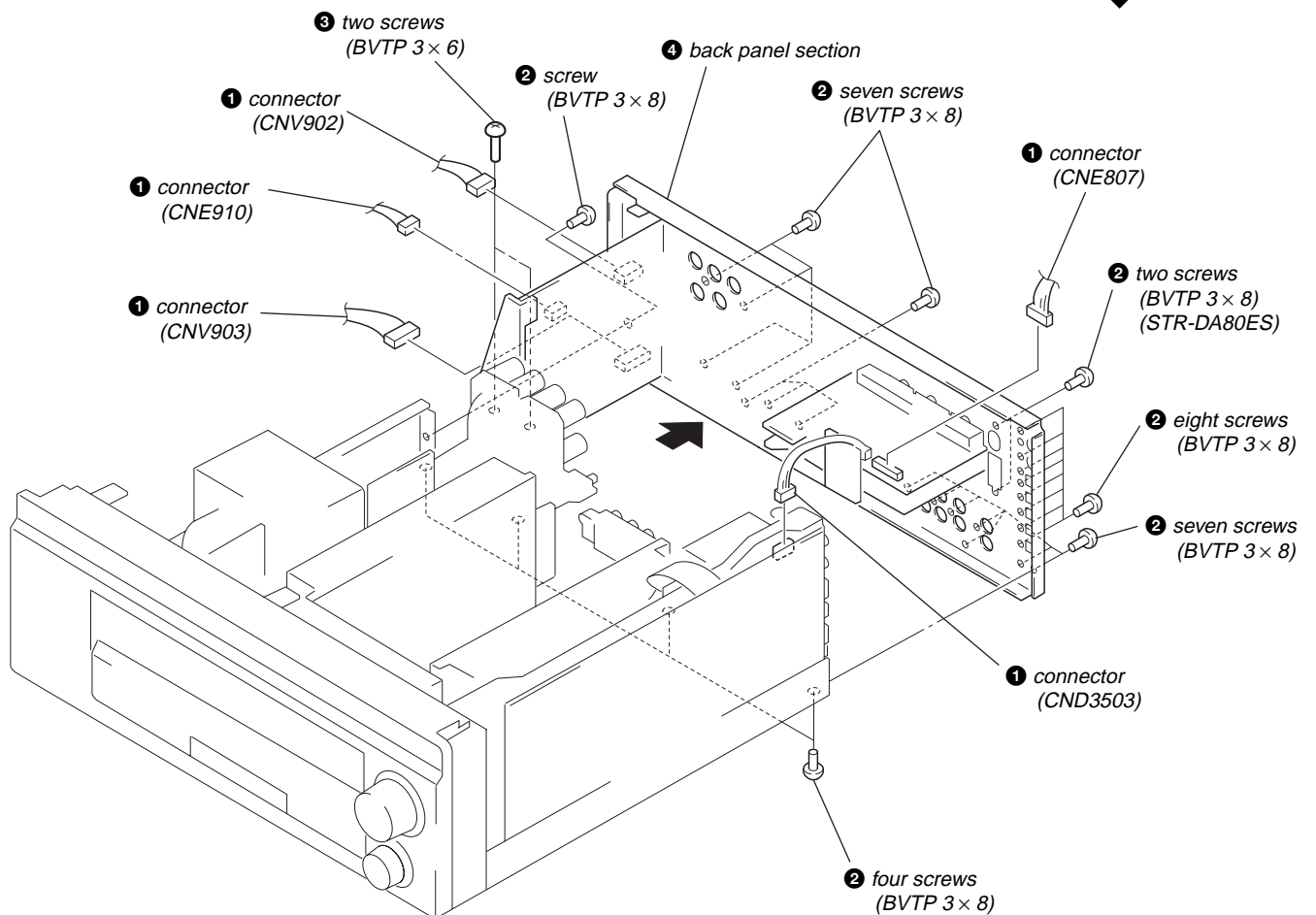
SECTION 2 DISASSEMBLY

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

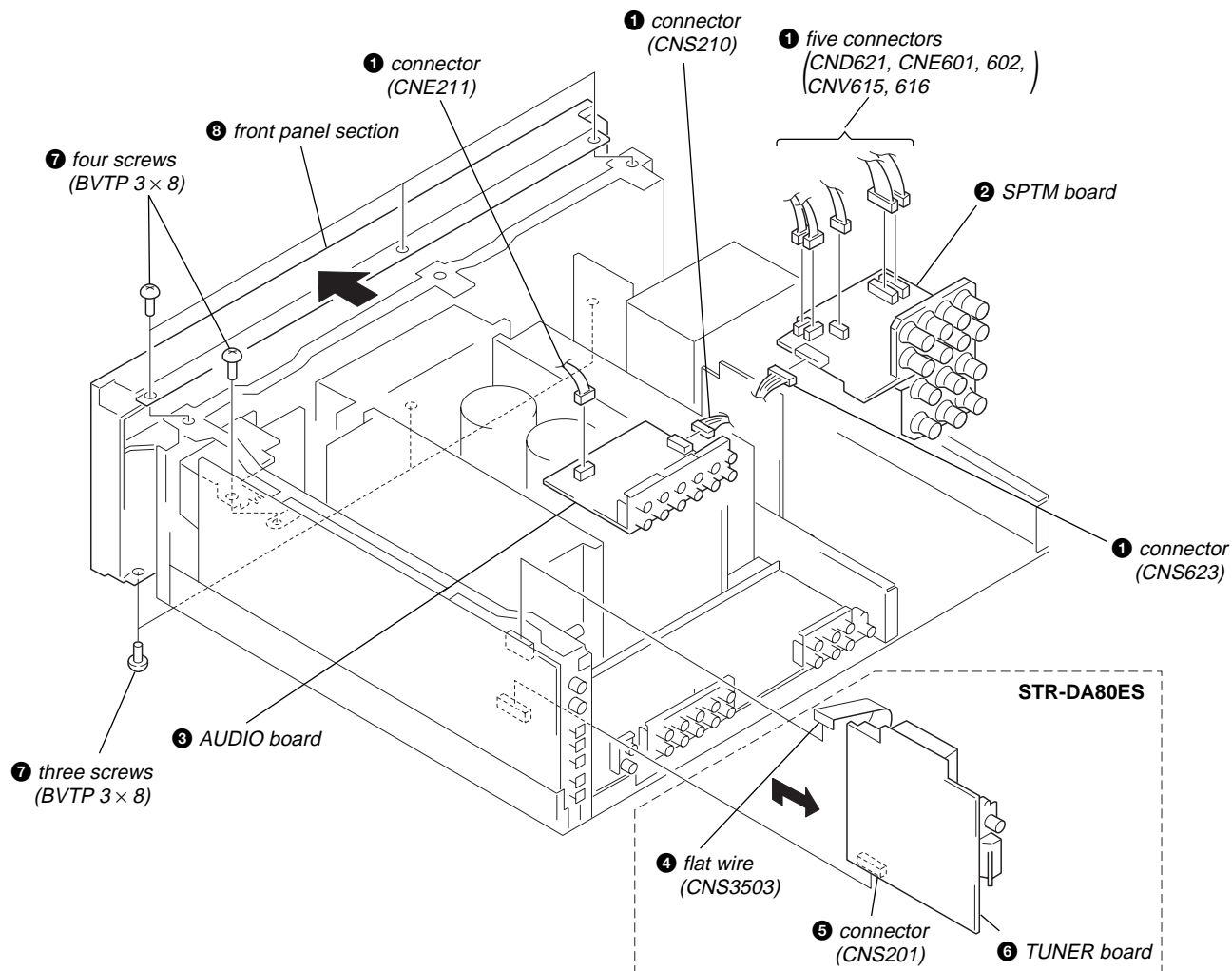
CASE



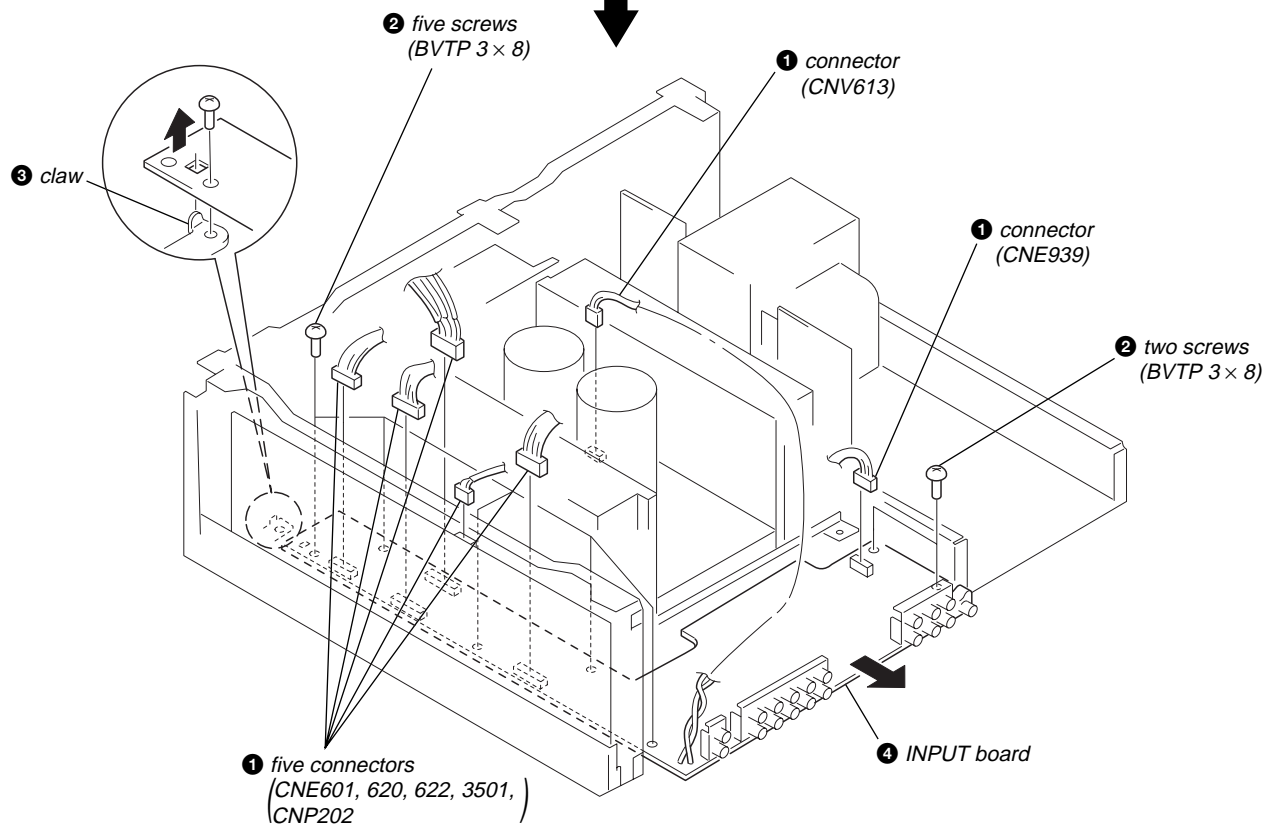
REAR PANEL SECTION



TUNER/AUDIO/SPTM BOARD, FRONT PANEL SECTION



INPUT BOARD



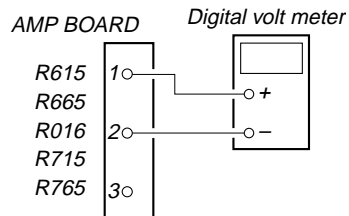
SECTION 3 ELECTRICAL ADJUSTMENTS

DC BIAS CURRENT Adjustment (with no signal input)

Note:

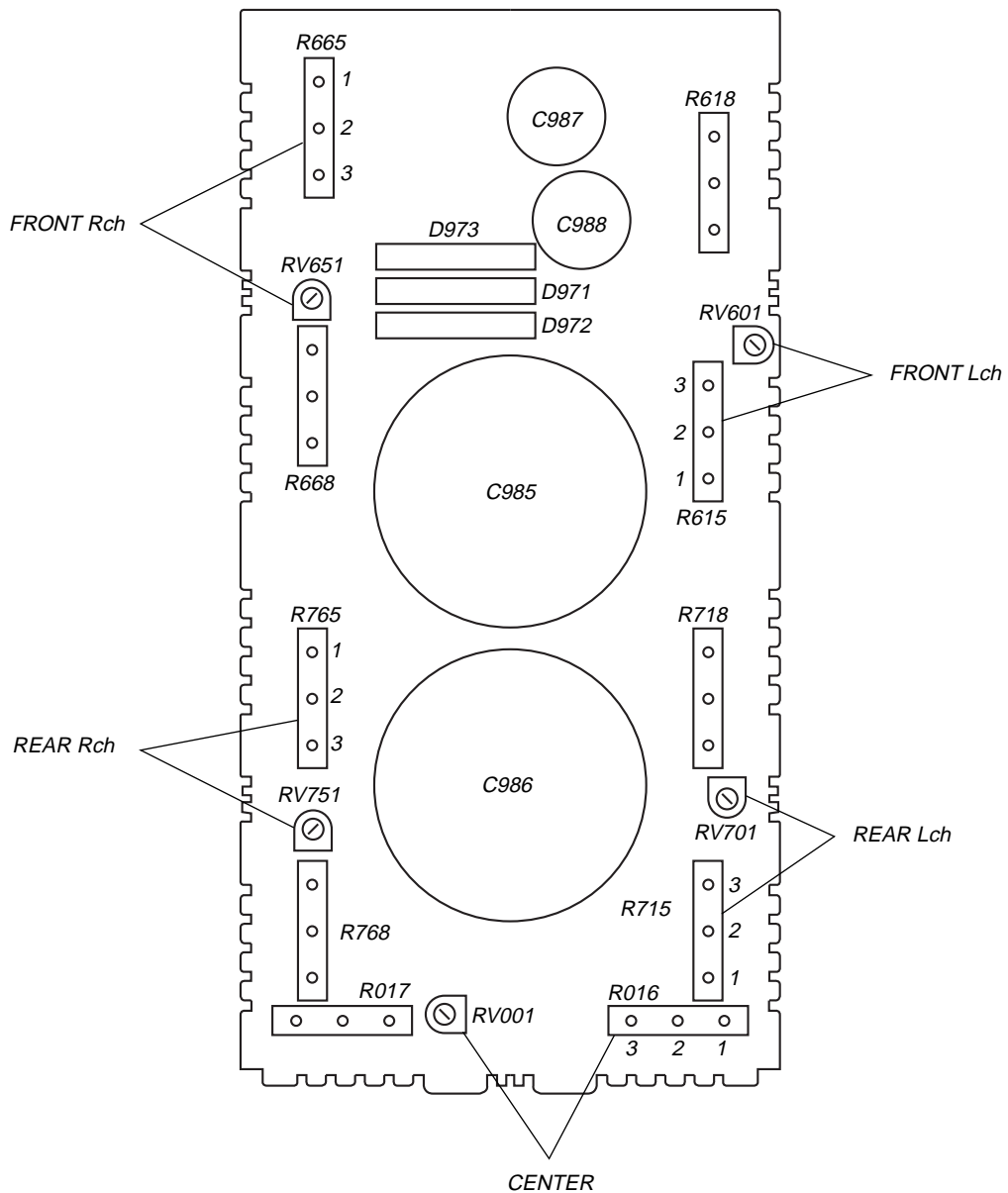
1. DC BIAS CURRENT adjustments should be made 30 seconds after the [POWER] switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS CURRENT adjustments should be performed.

Procedure:



| | Connecting point | Adjustment part | Reading on Digital volt meter |
|-----------|------------------|-----------------|-------------------------------|
| FRONT Lch | R615 | RV601 | 20 mV |
| FRONT Rch | R665 | RV651 | 20 mV |
| CENTER | R016 | RV001 | 20 mV |
| REAR Lch | R715 | RV701 | 20 mV |
| REAR Rch | R765 | RV751 | 20 mV |

[AMP BOARD] (COMPONENT SIDE)



SECTION 4 DIAGRAMS

4-1. IC Pin Function Description

• DISPLAY BOARD IC105 MB90673PF-G-206-BND (FLUORESCENT INDICATOR TUBE DRIVE CONTROLLER, KEY CONTROL)

| Pin No. | Pin Name | I/O | Function |
|---------|-------------|-----|--|
| 1 | MBUS (VZ) | I | Not used (fixed at “L”) |
| 2 | MBUS (MON) | I | Not used (fixed at “L”) |
| 3 | MBUS (STU) | O | Not used (open) |
| 4 | LED-V3 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 3 indicator) |
| 5 | LED-V2 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 2 indicator) |
| 6 | LED-V1 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 1 indicator) |
| 7 | STANDBY | O | LED drive signal output terminal “H”: LED on (for function STANDBY indicator) |
| 8 | DPC (SURR) | O | LED drive signal output terminal “H”: LED on (for function SUR indicator) |
| 9 | DPC (EQ) | O | LED drive signal output terminal “H”: LED on (for function EQ indicator) |
| 10 | DPC (INDEX) | O | LED drive signal output terminal “H”: LED on (for function INDEX indicator) |
| 11 | DVSS | — | Ground terminal |
| 12 | LED-CE | O | LED drive signal output terminal “H”: LED on (for function CD indicator) |
| 13 | LED-DAT/MD | O | LED drive signal output terminal “H”: LED on (for function DAT/MD indicator) |
| 14 | LED-TAPE | O | LED drive signal output terminal “H”: LED on (for function TAPE indicator) |
| 15 | LED-TV | O | LED drive signal output terminal “H”: LED on (for function TV/DBS (STR-DA80ES) or TV (TA-V88ES/VA80ES) indicator) |
| 16 | LED-LD | O | LED drive signal output terminal “H”: LED on (for function LD/DVD indicator) |
| 17 | LED-V3 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 3 indicator) |
| 18 | LED-V2 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 2 indicator) |
| 19 | LED-V1 | O | LED drive signal output terminal “H”: LED on (for function VIDEO 1 indicator) |
| 20 | RX (SIN) | I | Receive data input from the on screen display controller Not used (fixed at “L”) |
| 21 | TX (SOUT) | O | Transmit data output to the on screen display controller Not used (open) |
| 22 | BUSY | I | Busy signal input from the on screen display controller Not used (fixed at “L”) |
| 23 | FL CLEAR | O | “Display clear signal output to the fluorescent indicator tube driver (IC101, 102)” |
| 24 | FL DATA | O | Serial data output to the fluorescent indicator tube driver (IC102) |
| 25 | FL CLK | O | “Serial data transfer clock signal output to the fluorescent indicator tube driver (IC101, 102)” |
| 26 | LAT (OSD) | O | “Serial data latch pulse signal output to the fluorescent indicator tube driver (IC101, 102)” |
| 27 | SIRCS1 | I | Sircs signal input from the remote control receiver (IC104) |
| 28 | AVCC | — | Power supply terminal (+5V) |
| 29 | AVR+ | I | Reference voltage input terminal (+5V) |
| 30 | AVR- | I | Reference voltage input terminal (+0V) |
| 31 | GND | — | Ground terminal |
| 32 | AD KEY IN 1 | I | Key input terminal (A/D input) S132 to 134 (INPUT MODE, DIRECT PASS, BASS BOOST keys) |
| 33 | AD KEY IN 2 | I | Key input terminal (A/D input) S116 to 119 (FM/AM, SHIFT, PRESET TUNING +/- keys) (STR-DA80ES). Not used (open) (TA-V88ES/VA80ES) |
| 34 | DVSS | — | Ground terminal |
| 35 | AD KEY IN 3 | I | Key input terminal (A/D input) S109 to 114 (STR-DA80ES: EQUALIZER BAND, TUNING +/-, FM MODE, MEMORY, DISPLAY keys) (TA-V88ES/VA80ES: EQUALIZER BAND, EQUALIZER ON/OFF, SOUND FIELD STANDARD, SLEEP, DIMMER) |
| 36 | AD KEY IN 4 | I | Key input terminal (A/D input) S101 to 108 (EQUALIZER CH, DPC MODE, cursor ←/↓/↑/→, SET UP, OPEN/CLOSE keys) |
| 37 | AD KEY IN 5 | I | Key input terminal (A/D input) S129 to 131 (MODE, SOUND FIELD ON/OFF, GENRE keys) |
| 38 | AD VERSION | I | Setting terminal for the destination (A/D input) |
| 39 | VOL-UP | I | Motor drive signal input for the master volume |
| 40 | VOL-DOWN | I | Motor drive signal input for the master volume |

| Pin No. | Pin Name | I/O | Function |
|---------|-----------------------------|-----|---|
| 41 | MODE0 | I | Mode selection terminal (fixed at “H”) |
| 42 | MODE1 | I | Mode selection terminal (fixed at “H”) |
| 43 | MODE2 | I | Mode selection terminal (fixed at “L”) |
| 44 | STANDBY | I | Hardware standby signal input terminal (fixed at “H”) |
| 45 | STOP | I | Stop signal input terminal |
| 46 | $\overline{\text{U-RESET}}$ | I | System reset signal input from the master controller (IC3413) “L”: reset |
| 47 | U-SREQ | O | Communication request signal output to the master controller (IC3413) |
| 48 | U-MREQ | I | Communication request signal input from the master controller (IC3413) |
| 49 | U-DATA | I/O | Serial data in/out with the master controller (IC3413) |
| 50 | U-CLOCK | I | Serial data reading clock signal input from the master controller (IC3413) |
| 51 | $\overline{\text{HIFI/ES}}$ | I | Setting terminal for the destination (fixed at “H”) |
| 52 | AUBUS-IN | I | Audio bus signal input terminal |
| 53 | AUBUS-OUT | O | Audio bus signal output terminal |
| 54 | FUNCTION-B | I | Jog dial pulse input of the rotary encoder (RV101 FUNCTION) |
| 55 | FUNCTION-A | I | Jog dial pulse input of the rotary encoder (RV101 FUNCTION) |
| 56 | OUT-OPEN | O | Motor drive signal output to the door open/close motor drive (IC107) |
| 57 | OUT-CLOSE | O | Motor drive signal output to the door open/close motor drive (IC107) |
| 58 | SW-OPEN | I | Door open detect sensor (PH102) input terminal |
| 59 | SW-CLOSE | I | Door close detect sensor (PH103) input terminal |
| 60 | — | — | Not used (open) |
| 61 | SWBAL | I | Balance volume on/off detect signal input terminal |
| 62 | $\overline{\text{RESET}}$ | I | Reset signal input terminal “L”: reset |
| 63 | GND | — | Ground terminal |
| 64 | XO | O | System clock signal output terminal (4MHz) |
| 65 | XI | I | System clock signal input terminal (4MHz) |
| 66 | VCC | — | Power supply terminal (+5V) |
| 67 | LED-TUNER | O | LED drive signal output terminal “H”: LED on (for function TUNER indicator) |
| 68 | LED-PHONO | O | LED drive signal output terminal “H”: LED on (for function PHONO indicator) |
| 69 | LED MUTE | O | LED drive signal output terminal “H”: LED on (for MUTING indicator) |
| 70 | LED-LEARNING | O | LED drive signal output terminal “H”: LED on Not used (open) |
| 71 | LED D.PASS | O | LED drive signal output terminal “H”: LED on (for DIRECT PASS indicator) |
| 72 | LED-INPUT | O | LED drive signal output terminal “H”: LED on Not used (open) |
| 73 | LED VOL | O | LED drive signal output terminal “H”: LED on (for MASTER VOLUME illumination) |
| 74 | LED BASS.B | O | LED drive signal output terminal “H”: LED on (for BASS BOOST indicator) |
| 75 | SP-A | I | Speaker select switch (S135) input terminal “H”: speaker A on |
| 76 | SP-B | I | Speaker select switch (S135) input terminal “H”: speaker B on |
| 77 | PW-SW | I | Power switch (S137) input terminal |
| 78 | LED-TV | O | LED drive signal output terminal “H”: LED on (for function TV/DBS (STR-DA80ES) or TV (TA-V88ES/VA80ES) indicator) |
| 79 | LED-LD | O | LED drive signal output terminal “H”: LED on (for function LD/DVD indicator) |
| 80 | — | I | Not used (fixed at “L”) |

• **DIGITAL BOARD IC3308 SN-PM4007A (DOLBY (AC-3) DEMODULATOR)**

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 1 | GND | — | Ground terminal |
| 2 | VDD | — | Power supply terminal (+5V) |
| 3 | RESET | I | Reset signal input from the master controller (IC3413) “L”: reset |
| 4 | OSCON | I | Oscillation on/off control signal input terminal “H”: on (fixed at “H”) |
| 5 | DATA | I | Test terminal Not used (fixed at “L”) |
| 6 | MCK | I | Test terminal Not used (fixed at “L”) |
| 7 | MLTB | I | Test terminal Not used (fixed at “L”) |
| 8 | IDST | O | Test terminal Not used (open) |
| 9 | IDCK | O | Test terminal Not used (open) |
| 10 | IDO | O | Test terminal Not used (open) |
| 11 | TM0 | I | Test terminal Not used (fixed at “L”) |
| 12 | ECCK | O | Test terminal Not used (open) |
| 13 | DEY | O | Test terminal Not used (open) |
| 14 | DRY | O | Test terminal Not used (open) |
| 15 | DRY | O | Test terminal Not used (open) |
| 16 | TM1 | I | Test terminal Not used (fixed at “L”) |
| 17 | A0 | O | Address signal output to the S-RAM (IC3309) |
| 18 | A1 | O | |
| 19 | A2 | O | |
| 20 | A3 | O | |
| 21 | A4 | O | |
| 22 | A5 | O | |
| 23 | TM2 | I | Test terminal Not used (fixed at “L”) |
| 24 | TM3 | I | Test terminal Not used (fixed at “L”) |
| 25 | XOUT | O | System clock output terminal Not used (open) |
| 26 | XIN | I | System clock input terminal Not used (fixed at “L”) |
| 27 | NEXT | I | Test terminal Not used (fixed at “L”) |
| 28 | GND | — | Ground terminal |
| 29 | VDD | — | Power supply terminal (+5V) |
| 30 | A6 | O | Address signal output to the S-RAM (IC3309) |
| 31 | A7 | O | Address signal output to the S-RAM (IC3309) |
| 32 | GND | — | Ground terminal |
| 33 | VDD | — | Power supply terminal (+5V) |
| 34 | A12 | O | Address signal output to the S-RAM (IC3309) |
| 35 | A14 | O | Address signal output to the S-RAM (IC3309) |
| 36 | WE | O | Write enable signal output to the S-RAM (IC3309) “L” active |
| 37 | A13 | O | Address signal output to the S-RAM (IC3309) |
| 38 | A8 | O | |
| 39 | A9 | O | |
| 40 | GND | — | Ground terminal |
| 41 | A11 | O | Address signal output to the S-RAM (IC3309) |
| 42 | OE | O | Output enable signal output to the S-RAM (IC3309) “L” active |
| 43 | A10 | O | Address signal output to the S-RAM (IC3309) |
| 44 | D7 | I/O | Two-way data bus with the S-RAM (IC3309) |
| 45 | D6 | I/O | |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 46 | D5 | I/O | Two-way data bus with the S-RAM (IC3309) |
| 47 | D4 | I/O | |
| 48 | D3 | I/O | |
| 49 | D2 | I/O | |
| 50 | D1 | I/O | |
| 51 | D0 | I/O | |
| 52 | VDD | — | Power supply terminal (+5V) |
| 53 | GND | — | Ground terminal |
| 54 | TI1 | I | Test terminal Not used (fixed at “H”) |
| 55 | VIN | I | VCXO input terminal (18.432 MHz) |
| 56 | VOUT | O | VCXO output terminal (18.432 MHz) |
| 57 | TI2 | I | Test terminal Not used (fixed at “L”) |
| 58 | TI3 | I | Test terminal Not used (fixed at “L”) |
| 59 | TLD8 | I | Test terminal Not used (fixed at “L”) |
| 60 | TCK | I | Test terminal Not used (fixed at “L”) |
| 61 | TRP | O | Test terminal Not used (open) |
| 62 | TD0 | O | Test terminal Not used (open) |
| 63 | PD0 | O | Internal phase comparator output terminal |
| 64 | TI4 | I | Test terminal Not used (fixed at “L”) |
| 65 | PDD15 | I | PDO out control signal input terminal “L”: on |
| 66 | MUT0 | O | Mute control signal output terminal “H”: mute on |
| 67 | TI5 | I | Test terminal Not used (fixed at “L”) |
| 68 | VLDY | O | Test terminal Not used (open) |
| 69 | DASYO | O | Test terminal Not used (open) |
| 70 | DAOUT | O | Digital out signal output terminal (serial data stream output) |
| 71 | DAIN | I | Digital external input terminal Through out to DAOUT (pin 70) when DASEL (pin 72) is “H” Not used (open) |
| 72 | DASEL | I | Digital out selection terminal Fixed at “L” |
| 73 | TI8 | I | Test terminal Not used (fixed at “L”) |
| 74 | C2F1 | O | C2 error correction state monitor output terminal Outputs if corrected properly Not used (open) |
| 75 | C2F0 | O | C2 error correction state monitor output terminal Outputs number of errors at C2 Not used (open) |
| 76 | C1F1 | O | C1 error correction state monitor output terminal Outputs whether error is present at C1 Not used (open) |
| 77 | C1F0 | O | C1 error correction state monitor output terminal Outputs number of errors at C1 Not used (open) |
| 78 | MUT1 | I | Mute signal input terminal “H”: mute |
| 79 | VDD | — | Power supply terminal (+5V) |
| 80 | GND | — | Ground terminal |
| 81 | AVDD | — | Power supply terminal (+5V) (for analog system) |
| 82 | CPIN | I | Comparator input (+) terminal |
| 83 | CMIN | I | Comparator input (–) terminal |
| 84 | AGND | — | Ground terminal (for analog system) |
| 85 | TM4 | I | Test terminal Not used (fixed at “L”) |
| 86 | VDD | — | Power supply terminal (+5V) |
| 87 | DIN | I | Test terminal Not used (fixed at “L”) |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 88 | DOUT | O | Comparator output terminal |
| 89 | DOUTB | O | Comparator inverted output terminal |
| 90 | CSM | O | Clock (9.216 MHz) output terminal Not used (open) |
| 91 | GND | — | Ground terminal |
| 92 | WINGT | O | Test terminal Not used (open) |
| 93 | SYST0 | O | Test terminal Not used (open) |
| 94 | SYST1 | O | Test terminal Not used (open) |
| 95 | ADST0 | O | Test terminal Not used (open) |
| 96 | ADST1 | O | Test terminal Not used (open) |
| 97 | TMS | I | Test terminal Not used (fixed at “L”) |
| 98 | BUNR1 | I | Test terminal Not used (fixed at “L”) |
| 99 | AGND | — | Ground terminal (for analog system) |
| 100 | AVDD | — | Power supply terminal (+5V) (for analog system) |

• **DIGITAL BOARD IC3410 DSP56009FJ88F (DIGITAL SIGNAL PROCESSOR)**

| Pin No. | Pin Name | I/O | Function |
|---------|--------------|-----|--|
| 1 | AGND | — | Ground terminal (for address bus buffer) |
| 2 | MCS0 | O | Chip select signal output to the external RAM device Not used (open) |
| 3 | MCS3 | O | Chip select signal output to the external RAM device Not used (open) |
| 4 | MA14 | O | Address signal output to the external RAM device Not used (open) |
| 5 | MA13 | O | Address signal output to the external RAM device Not used (open) |
| 6 | AVCC | — | Power supply terminal (+5V) (for address bus buffer) |
| 7 | MA12 | O | Address signal output to the external RAM device Not used (open) |
| 8 | AGND | — | Ground terminal (for address bus buffer) |
| 9 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 10 | QGND | — | Ground terminal (for internal logic) |
| 11 | MA11 | O | Address signal output to the external RAM device Not used (open) |
| 12 | MA10 | O | |
| 13 | MA9 | O | |
| 14 | MA8 | O | |
| 15 | AGND | — | Ground terminal (for address bus buffer) |
| 16 | MA7 | O | Address signal output to the external RAM device Not used (open) |
| 17 | AVCC | — | Power supply terminal (+5V) (for address bus buffer) |
| 18 | MA6 | O | Address signal output to the external RAM device Not used (open) |
| 19 | MA5 | O | |
| 20 | MA4 | O | |
| 21 | AGND | — | Ground terminal (for address bus buffer) |
| 22 | MA3 | O | Address signal output to the external RAM device Not used (open) |
| 23 | MA2 | O | |
| 24 | MA1 | O | |
| 25 | MA0 | O | |
| 26 | SCK | I | Serial data reading clock signal input from the master controller (IC3413) |
| 27 | EXTAL | I | Master clock signal input terminal (3MHz) |
| 28 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 29 | QGND | — | Ground terminal (for internal logic) |
| 30 | PINIT | I | Initialize input for the PLL circuit (fixed at “L”) |
| 31 | PGND | — | Ground terminal (for PLL circuit) |
| 32 | PCAP | I | Connected to the external capacitor for PLL circuit filter |
| 33 | PVCC | — | Power supply terminal (+5V) (for PLL circuit) |
| 34 | SGND | — | Ground terminal (for serial port) |
| 35 | MISO | I | Communication data input from the master controller (IC3413) |
| 36 | <u>RESET</u> | I | Reset signal input from the master controller (IC3413) “L”: reset |
| 37 | MODA | I | Mode selection terminal (fixed at “H”) |
| 38 | MODB | I | Mode selection terminal (fixed at “L”) |
| 39 | MODC | I | Mode selection terminal (fixed at “H”) |
| 40 | SVCC | — | Power supply terminal (+5V) (for serial port) |
| 41 | MOSI | O | Communication data output to the master controller (IC3413) |
| 42 | SS | I | SPI slave select signal input from the master controller (IC3413) |
| 43 | HREQ | I | Host request signal input from the master controller (IC3413) |
| 44 | SGND | — | Ground terminal (for serial port) |
| 45 | SDO2 | O | Audio serial data output terminal Not used (open) |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 46 | SDO1 | O | Audio serial data output to the digital signal processor (IC3412) |
| 47 | SDO0 | O | Audio serial data output to the digital signal processor (IC3412) |
| 48 | SVCC | — | Power supply terminal (+5V) (for serial port) |
| 49 | SCKT | O | Audio serial data transfer clock signal output to the digital signal processor (IC3412) |
| 50 | WST | O | Word transmission output to the digital signal processor (IC3412) |
| 51 | SCKR | I | Bit clock signal (2.8224 MHz) input terminal |
| 52 | QGND | — | Ground terminal (for internal logic) |
| 53 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 54 | SGND | — | Ground terminal (for serial port) |
| 55 | WSR | I | L/R sampling clock signal (44.1 kHz) input terminal |
| 56 | SDI1 | I | Audio serial data input terminal |
| 57 | SDI0 | I | Audio serial data input terminal |
| 58 | DSO | O | Debug serial data output terminal Not used (open) |
| 59 | DSI | I | Debug serial data input terminal Not used (open) |
| 60 | DSCK | I | Debug serial data reading clock signal input terminal Not used (open) |
| 61 | DR | I | Debug request signal input terminal Not used (fixed at “H”) |
| 62 | MD7 | I/O | Two-way data bus with the external RAM device Not used (open) |
| 63 | MD6 | I/O | |
| 64 | MD5 | I/O | |
| 65 | MD4 | I/O | |
| 66 | DGND | — | Ground terminal (for data bus buffer) |
| 67 | MD3 | I/O | Two-way data bus with the external RAM device Not used (open) |
| 68 | MD2 | I/O | |
| 69 | MD1 | I/O | |
| 70 | DVCC | — | Power supply terminal (+5V) (for data bus buffer) |
| 71 | MD0 | I/O | Two-way data bus with the external RAM device Not used (open) |
| 72 | DGND | — | Ground terminal (for data bus buffer) |
| 73 | GPIO3 | I/O | General digital signal processor in/out terminal Not used (open) |
| 74 | GPIO2 | I/O | |
| 75 | GPIO1 | I/O | |
| 76 | GPIO0 | I/O | |
| 77 | MRD | O | Write strobe signal output to the external RAM device Not used (open) |
| 78 | MWR | O | Read strobe signal output to the external RAM device Not used (open) |
| 79 | MRAS | O | Row address strobe signal output to the external RAM device Not used (open) |
| 80 | MCAS | O | Column address strobe signal output to the external RAM device Not used (open) |

• **DIGITAL BOARD IC3412 SSP424023FJ88 (DIGITAL SIGNAL PROCESSOR)**

| Pin No. | Pin Name | I/O | Function |
|---------|--------------|-----|--|
| 1 | AGND | — | Ground terminal (for address bus buffer) |
| 2 | MCS0 | O | Chip select signal output to the external RAM device Not used (open) |
| 3 | MA15 | O | Address signal output to the S-RAM (IC3411) |
| 4 | MA14 | O | |
| 5 | MA13 | O | |
| 6 | AVCC | — | Power supply terminal (+5V) (for address bus buffer) |
| 7 | MA12 | O | Address signal output to the S-RAM (IC3411) |
| 8 | AGND | — | Ground terminal (for address bus buffer) |
| 9 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 10 | QGND | — | Ground terminal (for internal logic) |
| 11 | MA11 | O | Address signal output to the S-RAM (IC3411) |
| 12 | MA10 | O | |
| 13 | MA9 | O | |
| 14 | MA8 | O | |
| 15 | AGND | — | Ground terminal (for address bus buffer) |
| 16 | MA7 | O | Address signal output to the S-RAM (IC3411) |
| 17 | AVCC | — | Power supply terminal (+5V) (for address bus buffer) |
| 18 | MA6 | O | Address signal output to the S-RAM (IC3411) |
| 19 | MA5 | O | |
| 20 | MA4 | O | |
| 21 | AGND | — | Ground terminal (for address bus buffer) |
| 22 | MA3 | O | Address signal output to the S-RAM (IC3411) |
| 23 | MA2 | O | |
| 24 | MA1 | O | |
| 25 | MA0 | O | |
| 26 | SCK | I | Serial data reading clock signal input from the master controller (IC3413) |
| 27 | EXTAL | I | Master clock signal input terminal (3MHz) |
| 28 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 29 | QGND | — | Ground terminal (for internal logic) |
| 30 | PINIT | I | Initialize input for the PLL circuit (fixed at “L”) |
| 31 | PGND | — | Ground terminal (for PLL circuit) |
| 32 | PCAP | I | Connected to the external capacitor for PLL circuit filter |
| 33 | PVCC | — | Power supply terminal (+5V) (for PLL circuit) |
| 34 | SGND | — | Ground terminal (for serial port) |
| 35 | MISO | I | Communication data input from the master controller (IC3413) |
| 36 | <u>RESET</u> | I | Reset signal input from the master controller (IC3413) “L”: reset |
| 37 | MODA | I | Mode selection terminal (fixed at “H”) |
| 38 | MODB | I | Mode selection terminal (fixed at “L”) |
| 39 | MODC | I | Mode selection terminal (fixed at “H”) |
| 40 | SVCC | — | Power supply terminal (+5V) (for serial port) |
| 41 | MOSI | O | Communication data output to the master controller (IC3413) |
| 42 | SS | I | SPI slave select signal input from the master controller (IC3413) |
| 43 | HREQ | I | Host request signal input from the master controller (IC3413) |
| 44 | SGND | — | Ground terminal (for serial port) |
| 45 | SDO2 | O | Audio serial data output terminal (for rear side speaker) |

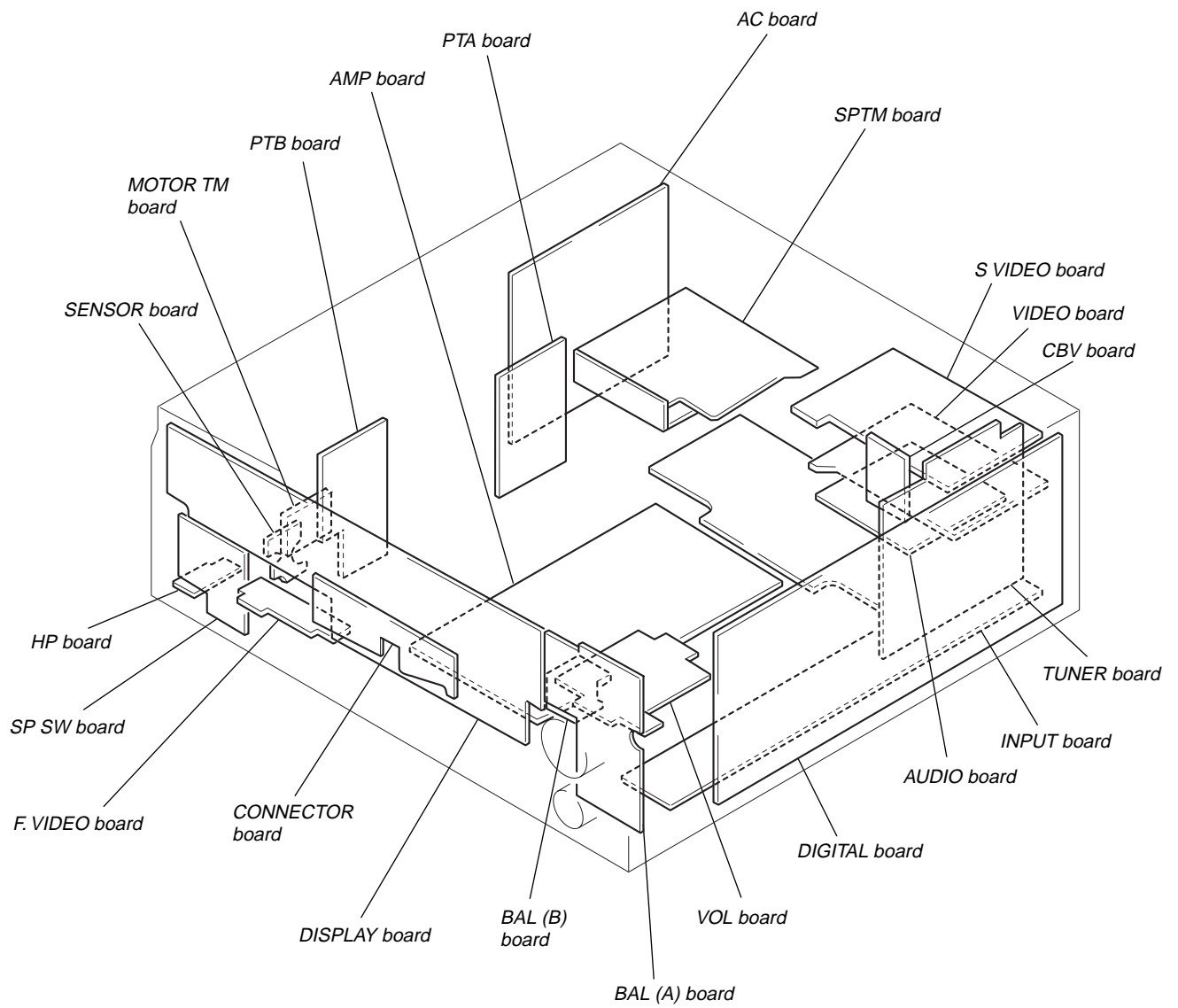
| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 46 | SDO1 | O | Audio serial data output terminal (for center side speaker) |
| 47 | SDO0 | O | Audio serial data output terminal (for front side speaker) |
| 48 | SVCC | — | Power supply terminal (+5V) (for serial port) |
| 49 | SCKT | I | Bit clock signal (2.8224 MHz) input terminal |
| 50 | WST | I | L/R sampling clock signal (44.1 kHz) input terminal |
| 51 | SCKR | I | Audio serial data reading clock signal input from the digital signal processor (IC3410) |
| 52 | QGND | — | Ground terminal (for internal logic) |
| 53 | QVCC | — | Power supply terminal (+5V) (for internal logic) |
| 54 | SGND | — | Ground terminal (for serial port) |
| 55 | WSR | I | Word transmission input from the digital signal processor (IC3410) |
| 56 | SDI1 | I | Audio serial data input from the digital signal processor (IC3410) |
| 57 | SDI0 | I | Audio serial data input from the digital signal processor (IC3410) |
| 58 | DSO | O | Debug serial data output terminal Not used (open) |
| 59 | DSI | I | Debug serial data input terminal Not used (open) |
| 60 | DSCK | I | Debug serial data reading clock signal input terminal Not used (open) |
| 61 | DR | I | Debug request signal input terminal Not used (fixed at “H”) |
| 62 | MD7 | I/O | Two-way data bus with the S-RAM (IC3411) |
| 63 | MD6 | I/O | |
| 64 | MD5 | I/O | |
| 65 | MD4 | I/O | |
| 66 | DGND | — | Ground terminal (for data bus buffer) |
| 67 | MD3 | I/O | Two-way data bus with the S-RAM (IC3411) |
| 68 | MD2 | I/O | |
| 69 | MD1 | I/O | |
| 70 | DVCC | — | Power supply terminal (+5V) (for data bus buffer) |
| 71 | MD0 | I/O | Two-way data bus with the S-RAM (IC3411) |
| 72 | DGND | — | Ground terminal (for data bus buffer) |
| 73 | GPIO3 | I/O | General digital signal processor in/out terminal Not used (open) |
| 74 | GPIO2 | I/O | |
| 75 | GPIO1 | I/O | |
| 76 | GPIO0 | I/O | General digital signal processor in/out with the master controller (IC3413) |
| 77 | MRD | O | Write strobe signal output to the S-RAM (IC3411) |
| 78 | MWR | O | Read strobe signal output to the S-RAM (IC3411) |
| 79 | CS1 | O | Chip select signal output to the external RAM device Not used (open) |
| 80 | MA16 | O | Address signal output to the S-RAM (IC3411) |

• **DIGITAL BOARD IC3413 MB90641APF-G-104-BND (MASTER CONTROLLER)**

| Pin No. | Pin Name | I/O | Function |
|---------|----------------|-----|---|
| 1 | RFERR | I | RF demodulator error signal input terminal “H”: error |
| 2 | RFRESET | O | RF demodulator reset signal output terminal “L”: active |
| 3 | STOP | I | System stop signal input terminal “L”: stop |
| 4 | RDATA | I | Data signal input from the digital audio interface receiver (IC3311) |
| 5 | WDATA | O | Data signal output to the digital audio interface receiver (IC3311) |
| 6 | DIRLAT | O | Latch pulse signal output to the digital audio interface receiver (IC3311) |
| 7 | DIRCLK | O | Clock signal output to the digital audio interface receiver (IC3311) |
| 8 | DIRERR | I | Error signal input from the digital audio interface receiver (IC3311) |
| 9 | ANG/DIG | O | Analog/Digital data select signal output to the selector (IC3414) |
| 10 | A/DINT | O | Initialize signal output to the A/D converter (IC3104) |
| 11 | Vss | — | Ground terminal |
| 12 | HREQ | I | Host request signal input from the digital signal processor (IC3410) |
| 13 | SS | O | SPI slave select signal output to the digital signal processor (IC3410) |
| 14 | MOSI | O | Communication data output to the digital signal processor (IC3410) |
| 15 | RESET | O | Reset signal output to the digital signal processor (IC3410) |
| 16 | MISO | I | Communication data input from the digital signal processor (IC3410) |
| 17 | CLOCK | O | Serial data reading clock signal output to the digital signal processor (IC3410) |
| 18 | HREQ | I | Host request signal input from the digital signal processor (IC3412) |
| 19 | SS | O | SPI slave select signal output to the digital signal processor (IC3412) |
| 20 | MOSI | O | Communication data output to the digital signal processor (IC3412) |
| 21 | RESET | O | Reset signal output to the digital signal processor (IC3412) |
| 22 | MISO | I | Communication data input from digital signal processor (IC3412) |
| 23 | VCC | — | Power supply terminal (+5 V) |
| 24 | CLOCK | O | Serial data reading clock signal output to the digital signal processor (IC3412) |
| 25 | D/AINT | O | Initialize signal output to the digital filter (IC3401-3403) |
| 26 | D/ALAT | O | Latch pulse signal output to the digital filter (IC3401-3403) |
| 27 | C | — | Connect capacitor |
| 28 | D/ACLK | O | Serial data reading clock signal output to the digital filter (IC3401-3403) |
| 29 | D/ADATA | O | Data signal output to the digital filter (IC3401-3403) |
| 30 | SRCINI | O | Initialize signal output Not used (open) |
| 31 | D/A8DAT | O | 8bit data signal output to the D/A converter Not used (open) |
| 32 | D/A8CLK | O | 8bit serial data reading clock signal output to the D/A converter Not used (open) |
| 33 | D/A8LAT | O | 8bit latch pulse signal output to the D/A converter Not used (open) |
| 34, 35 | VCC | — | Power supply terminal (+5 V) |
| 36, 37 | VSS | — | Ground terminal |
| 38 | LOW-FRQ-IED | I | General digital signal input from digital signal processor (IC3412) |
| 39 | GAIN-FRONT-8DB | O | Front out +8 dB signal output terminal “H”: active |
| 40 | GAIN-FRONT-4DB | O | Front out +4 dB signal output terminal “H”: active |
| 41 | GAIN-FRONT-2DB | O | Front out +2 dB signal output terminal “H”: active |
| 42 | VSS | — | Ground terminal |
| 43-47 | N.C. | — | Not used (open) |
| 48 | STOPIN | I | Power check signal input terminal “L”: error |
| 49 | MD0 | I | Mode set terminal (fixed at “H”) |
| 50 | MD1 | I | Mode set terminal (fixed at “H”) |
| 51 | MD2 | I | Mode set terminal (fixed at “L”) |

| Pin No. | Pin Name | I/O | Function |
|---------|----------------|-----|--|
| 52 | STANDBY | I | Stand by signal input terminal (Fixed at “H”) |
| 53 | N.C. | — | Not used (open) |
| 54 | DISPMR | I | Communication request signal input from the FL drive controller (IC105) |
| 55 | DISPDATA | I | Serial data signal input from the FL drive controller (IC105) |
| 56 | SLVDATA/REQ | O | Communication request signal output to the FL drive controller (IC105) |
| 57 | DISPCLK | I | Serial data reading clock signal input from the FL drive controller (IC105) |
| 58 | LAT | O | Latch pulse signal output to the audio selector (IC202, 291) |
| 59 | DATA | O | Data signal output to the audio selector (IC202, 291) |
| 60 | CLK | O | Serial data reading clock signal output to the audio selector (IC202, 291) |
| 61 | DATAIN | I | PLL data signal input from the tuner unit (FE201) (STR-DA80ES only) |
| 62 | AUTSTOP | I | PLL auto stop signal input from the tuner unit (FE201) (STR-DA80ES only) |
| 63 | STEREO | I | PLL stereo signal input from the tuner unit (FE201) (STR-DA80ES only) |
| 64, 65 | N.C. | — | Not used (open) |
| 66 | HIFI/ES | I | Not used (Fixed at “L”) |
| 67 | PROTEC | I | Amp output protect signal input terminal “L”: protect |
| 68 | VIDEO-A | O | Video input select signal “A” output to video input selector (IC803, 804, 811) |
| 69 | VIDEO-B | O | Video input select signal “B” output to video input selector (IC803, 804, 811) |
| 70 | VIDEO-E | O | Video input select signal “E” output to video input selector (IC803, 804, 811) |
| 71 | VIDEO-INH | O | Video monitor protect signal output terminal “L”: protect (TA-V88ES/VA80ES only) |
| 72 | FUNMUTE | O | Input mute signal output terminal |
| 73 | TUNERMUTE | O | Tuner mute signal output to the tuner unit (FE201) (STR-DA80ES only) |
| 74 | SURR-MUTE | O | Surround mute signal output terminal |
| 75 | ALLMUTE | O | All mute signal output terminal Not used (open) |
| 76 | RM-MUTE | O | Signal level –20 dB mute signal output terminal |
| 77 | RESET | O | System reset signal output to the FL drive controller (IC105) |
| 78 | RY-FRONT/A | O | Front speakers “A” ON/OFF relay control signal output terminal “H”: on |
| 79 | RY-FRONT/B | O | Front speakers “B” ON/OFF relay control signal output terminal “H”: on |
| 80 | RY-FRONT | O | Front speakers ON/OFF relay control signal output terminal Not used (open) |
| 81 | VSS | — | Ground terminal |
| 82 | XO | O | System clock signal output terminal (4 MHz) |
| 83 | XIN | I | System clock signal input terminal (4 MHz) |
| 84 | VCC | — | Power supply terminal (+5 V) |
| 85 | RY-PREAMP | O | Pre out ON/OFF relay control signal output terminal “H”: on |
| 86 | RY-CENTER | O | Center speaker ON/OFF relay control signal output terminal “H”: on |
| 87 | RY-REAR | O | Rear speakers ON/OFF relay control signal output terminal “H”: on |
| 88 | RY-HP | O | Headphone ON/OFF relay control signal output terminal “H”: on |
| 89 | RY-4/8 | O | Speaker impedance select relay control signal output terminal “H”: 4 Ω |
| 90 | RY-POWER | O | Power ON/OFF relay control signal output terminal “H”: on |
| 91-93 | N.C. | — | Not used (open) |
| 94 | RY-DIRECT-PASS | O | Direct-pass relay control signal output terminal “L”: pass |
| 95 | RY-HD | O | Rear, center direct-pass relay control signal output terminal Not used (open) |
| 96, 97 | N.C. | — | Not used (open) |
| 98 | DIG-IN2 | O | Digital input select signal “C” output to the optical in select switch (IC3313) |
| 99 | DIG-IN1 | O | Digital input select signal “B” output to the optical in select switch (IC3313) |
| 100 | DIG-IN0 | O | Digital input select signal “A” output to the optical in select switch (IC3313) |

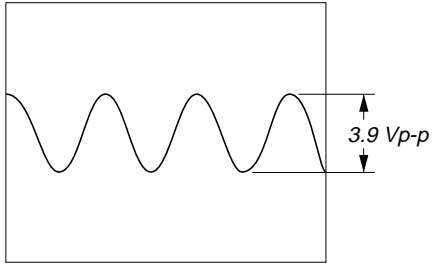
• Circuit Boards Location



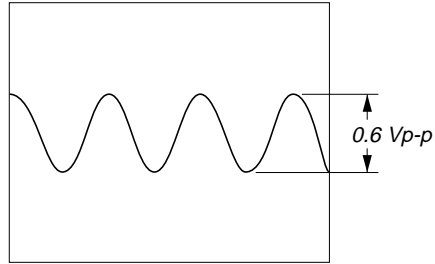
• Waveforms

– DISPLAY SECTION –

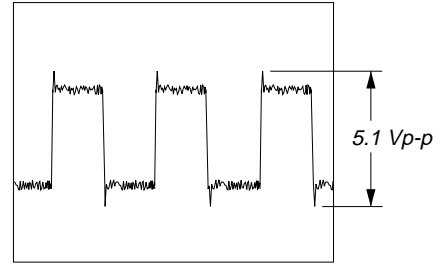
❶ IC105 ⑥4 4 MHz



❺ IC3402, 3403 ⑩4 48.5 MHz

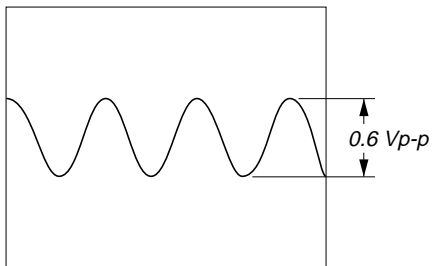


❾ IC3108 ④
IC3425 ①, ③ 3.1 MHz

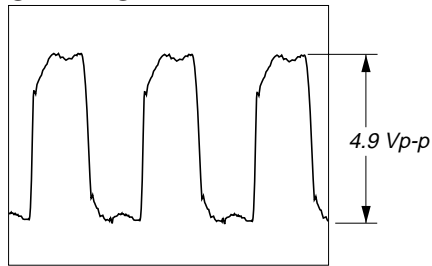


– DIGITAL SECTION –

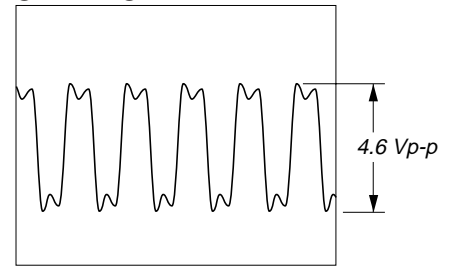
❷ IC3401 ⑩4 49 MHz



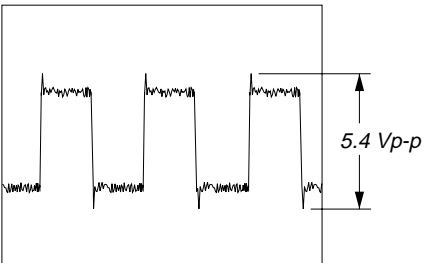
❻ IC3407 ① 6.1 MHz



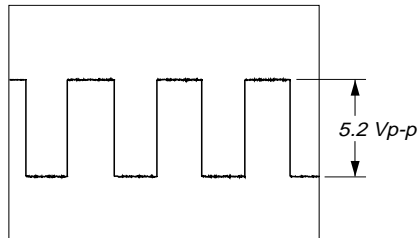
❿ IC3107 ④ 12.4 MHz



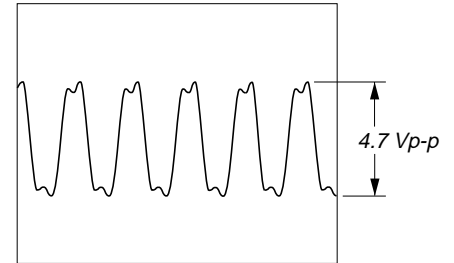
❸ IC3401-3403 ③8
IC3410 ⑤1
IC3414 ⑦
IC3417 ⑥ 3.1 MHz



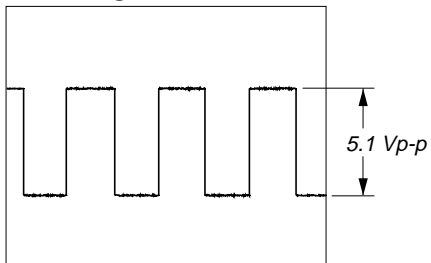
❼ IC3409 ⑦
IC3410 ⑤5
IC3412 ⑤0 48.1 kHz



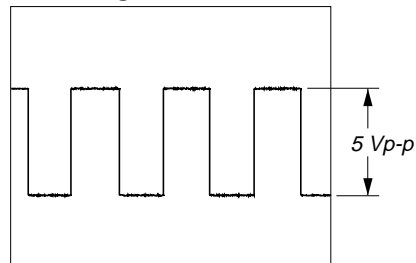
⓫ IC3104 ⑩7 12.2 MHz



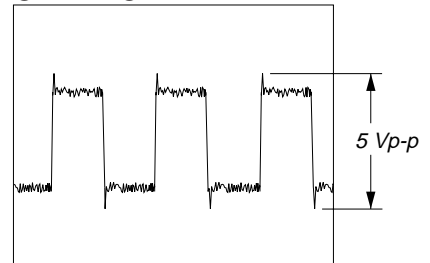
❹ IC3401-3403 ③9
IC3414 ④
IC3417 ⑧ 48.1 kHz



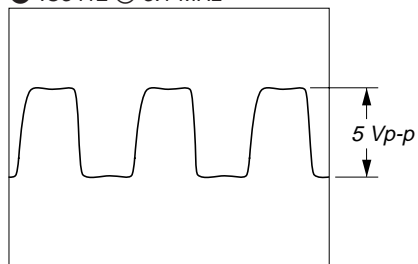
❽ IC3104 ⑩3
IC3108 ⑧
IC3409 ⑧ 48.1 kHz



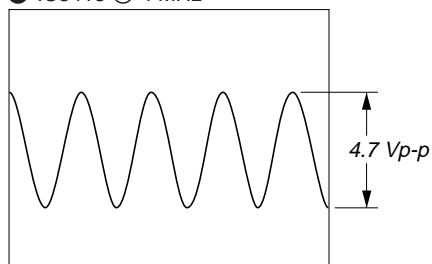
⓫ IC3104 ⑩4 3.1 MHz



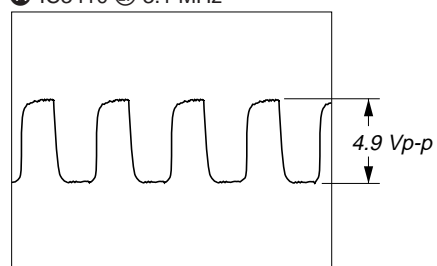
13 IC3412 ② 3.1 MHz



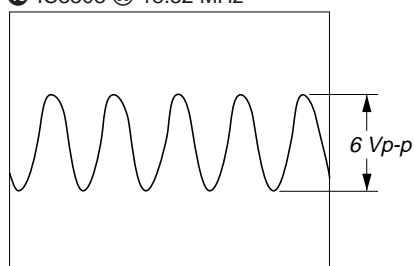
17 IC3413 ⑧ 4 MHz



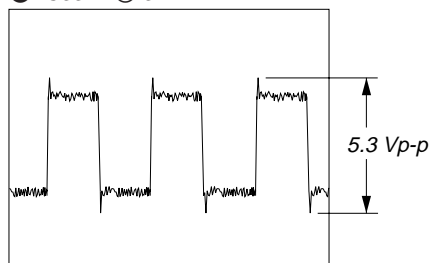
14 IC3410 ② 3.1 MHz



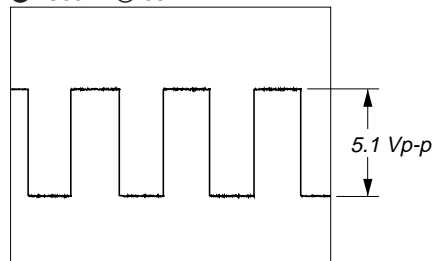
18 IC3308 ⑤ 18.52 MHz



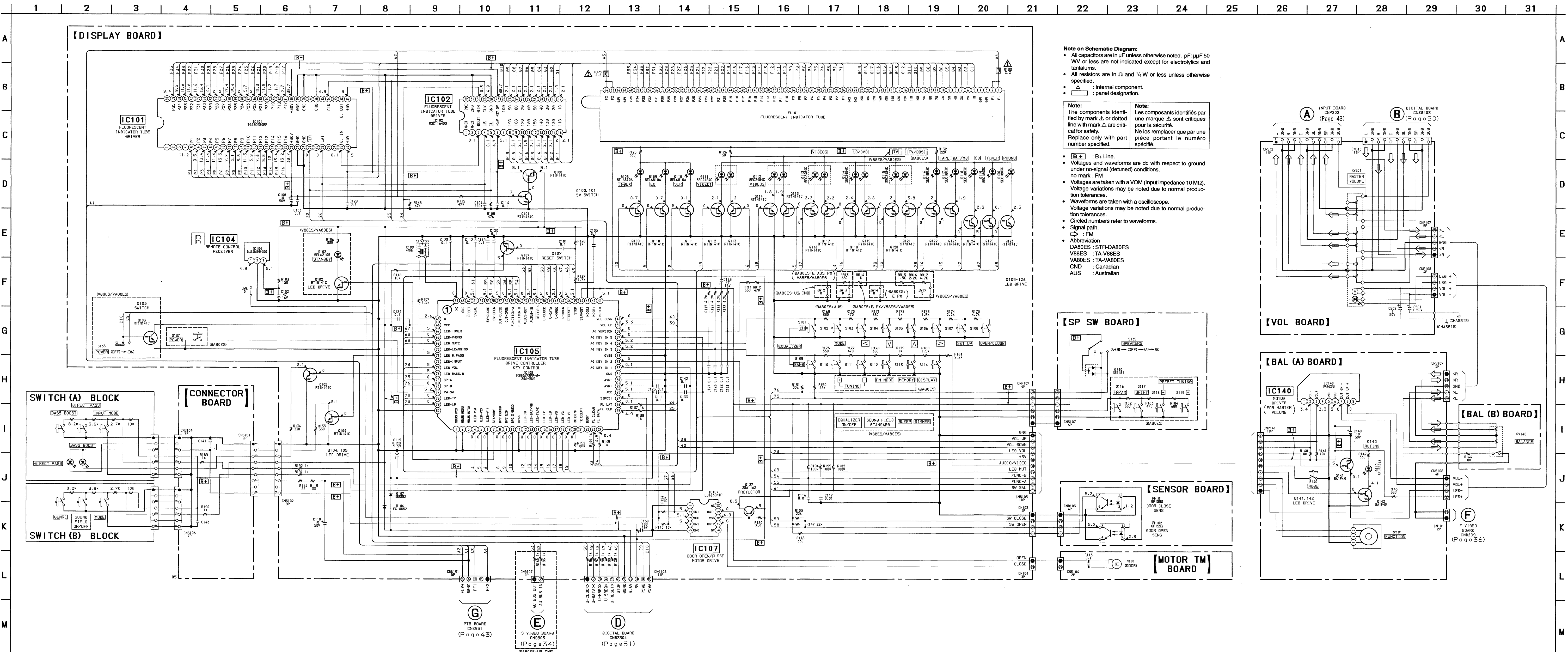
15 IC3311 ② 3.7 MHz



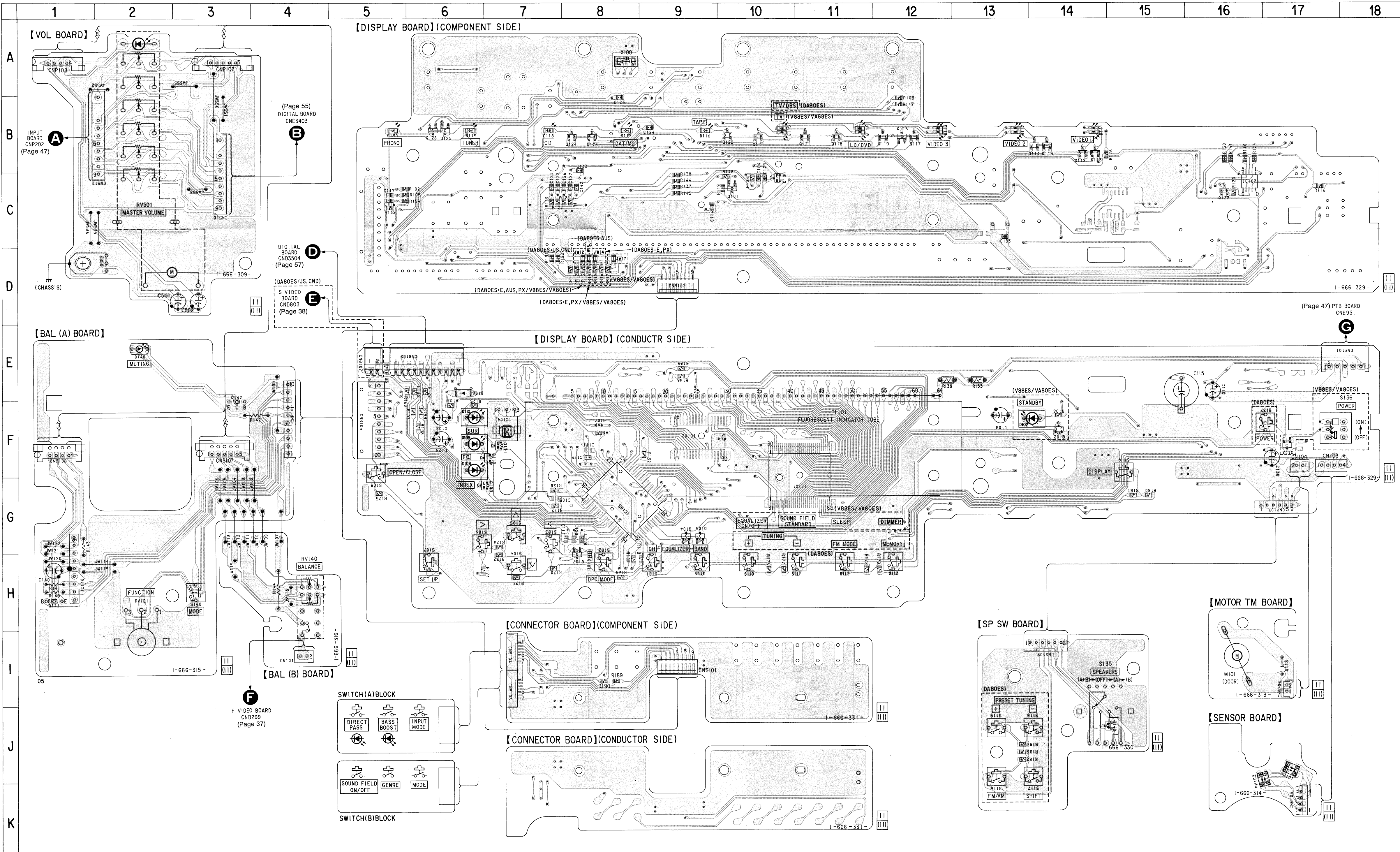
16 IC3311 ② 58.1 kHz



4-2. SCHEMATIC DIAGRAM — DISPLAY Section — • See page 22 for Waveforms. • See page 65 for IC Block Diagrams.



4-3. PRINTED WIRING BOARDS – DISPLAY Section – • See page 21 for Circuit Boards Location.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D102 | E-14 |
| D106 | F-6 |
| D107 | F-8 |
| D108 | F-6 |
| D109 | F-6 |
| D110 | F-6 |
| D111 | B-14 |
| D112 | B-13 |
| D113 | B-12 |
| D114 | B-11 |
| D115 | B-10 |
| D116 | B-9 |
| D117 | B-8 |
| D118 | B-7 |
| D119 | B-6 |
| D130 | B-5 |
| D140 | E-2 |
| D140 | J-15 |
| IC101 | G-11 |
| IC102 | F-9 |
| IC104 | F-7 |
| IC105 | G-8 |
| IC107 | C-16 |
| IC140 | H-1 |
| Q100 | C-10 |
| Q101 | C-10 |
| Q102 | F-14 |
| Q103 | F-17 |
| Q104 | G-9 |
| Q105 | G-9 |
| Q107 | H-8 |
| Q109 | G-7 |
| Q110 | F-7 |
| Q111 | F-7 |
| Q112 | B-14 |
| Q113 | B-14 |
| Q114 | B-14 |
| Q115 | B-15 |
| Q116 | B-12 |
| Q117 | B-12 |
| Q118 | B-11 |
| Q119 | B-12 |
| Q120 | B-10 |
| Q121 | B-11 |
| Q122 | B-10 |
| Q123 | B-8 |
| Q124 | B-8 |
| Q125 | B-6 |
| Q126 | B-6 |
| Q127 | C-16 |
| Q141 | H-1 |
| Q142 | E-3 |

Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- △ : internal component.
- : Through hole.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:

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

Parts face side: Parts on the parts face side seen from the parts face are indicated.

Abbreviation

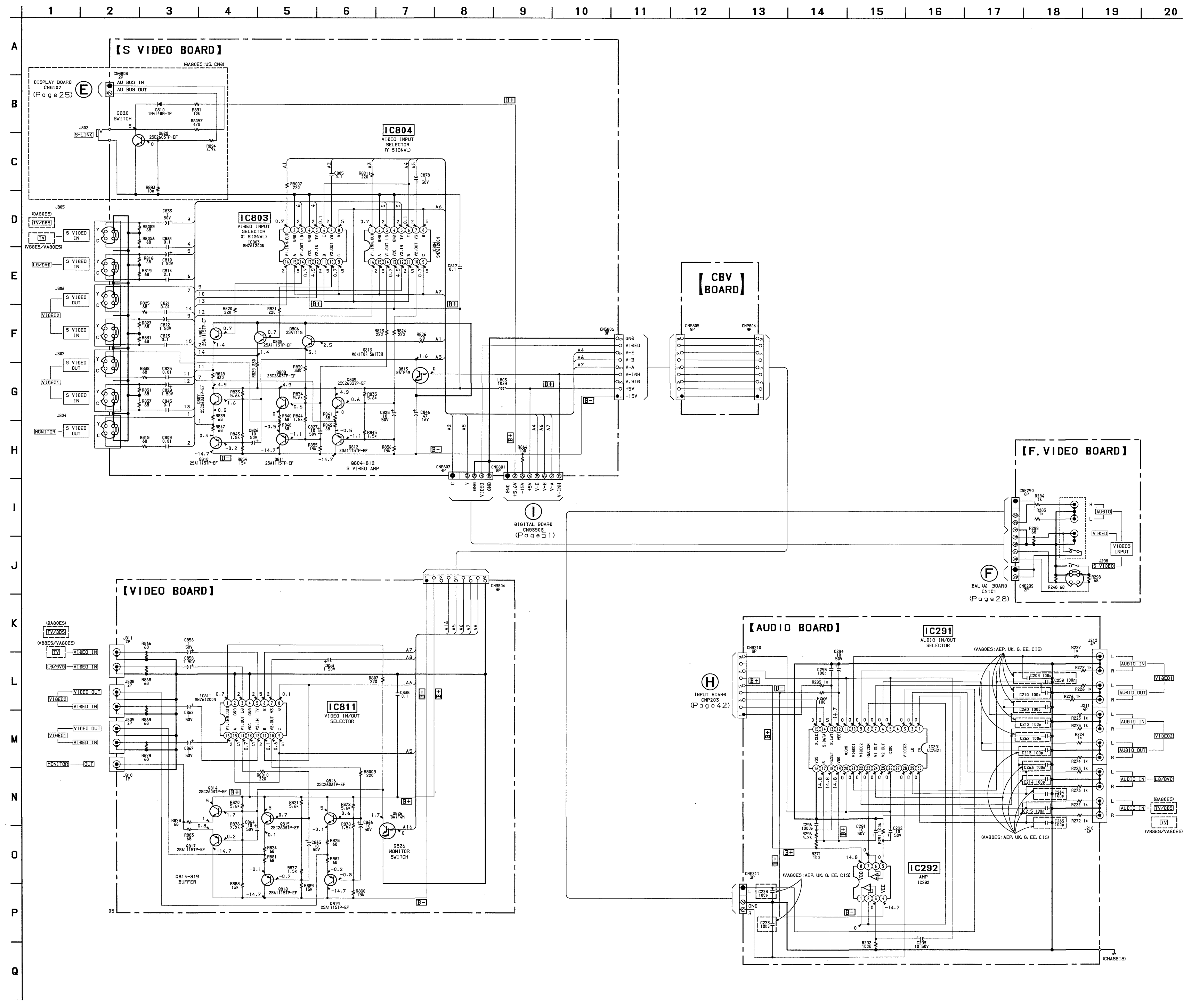
DA80ES : STR-DA80ES

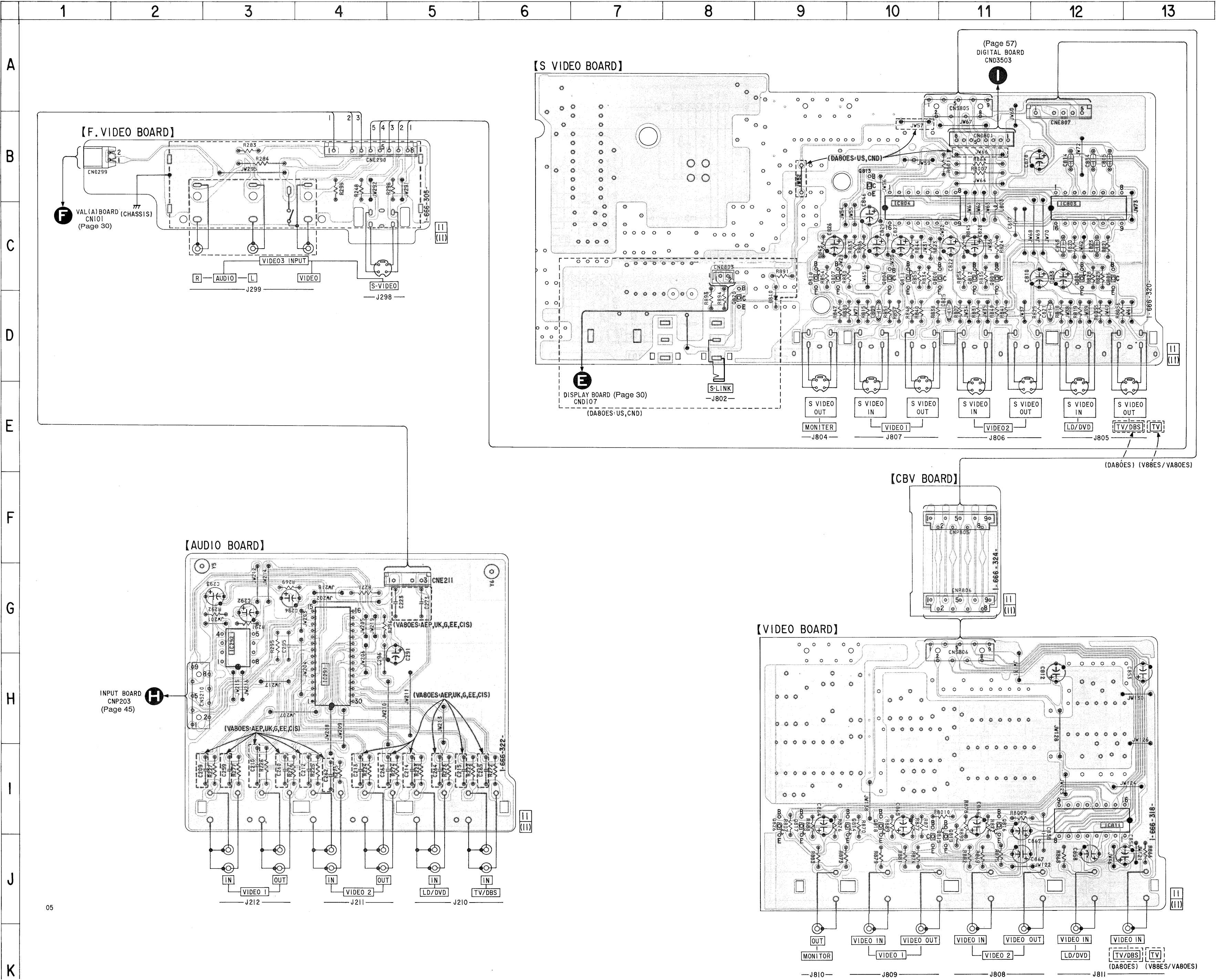
V88ES : TA-V88ES

VA80ES : TA-VA80ES

CND : Canadian

AUS : Australian








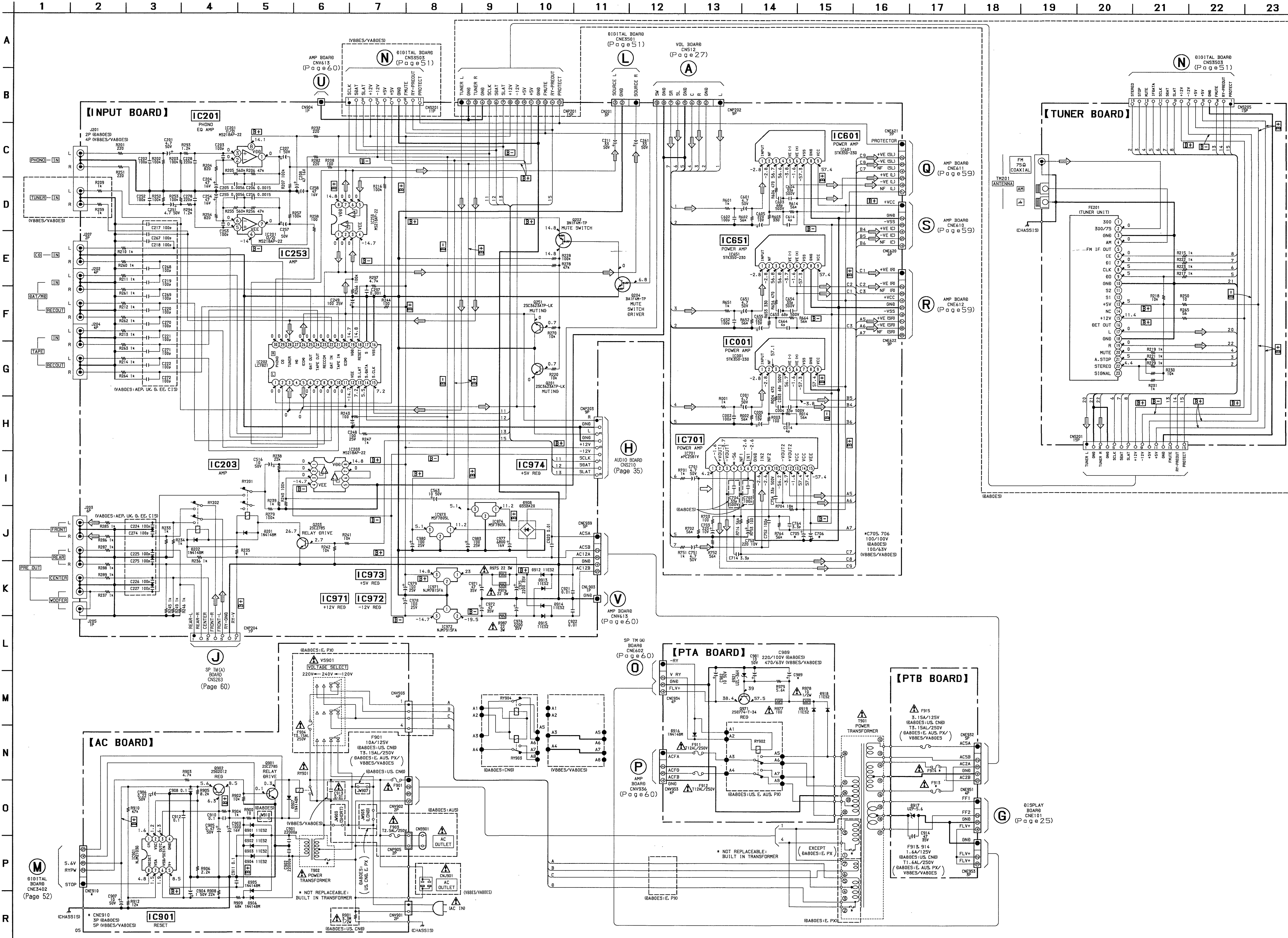
• Semiconductor Location

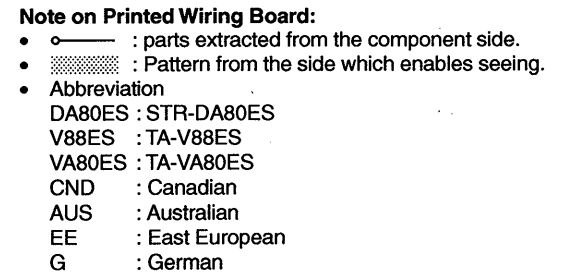
| Ref. No. | Location |
|----------|----------|
| D810 | D-9 |
| IC291 | H-4 |
| IC292 | G-3 |
| IC803 | C-12 |
| IC804 | C-10 |
| IC811 | I-12 |
| Q804 | C-12 |
| Q805 | C-12 |
| Q806 | C-10 |
| Q807 | C-9 |
| Q808 | C-11 |
| Q809 | C-11 |
| Q810 | C-9 |
| Q811 | C-10 |
| Q812 | C-11 |
| Q813 | B-10 |
| Q814 | I-10 |
| Q815 | J-10 |
| Q816 | I-11 |
| Q817 | I-9 |
| Q818 | I-10 |
| Q819 | J-11 |
| Q820 | D-8 |
| Q826 | I-9 |

Note on Printed Wiring Board:

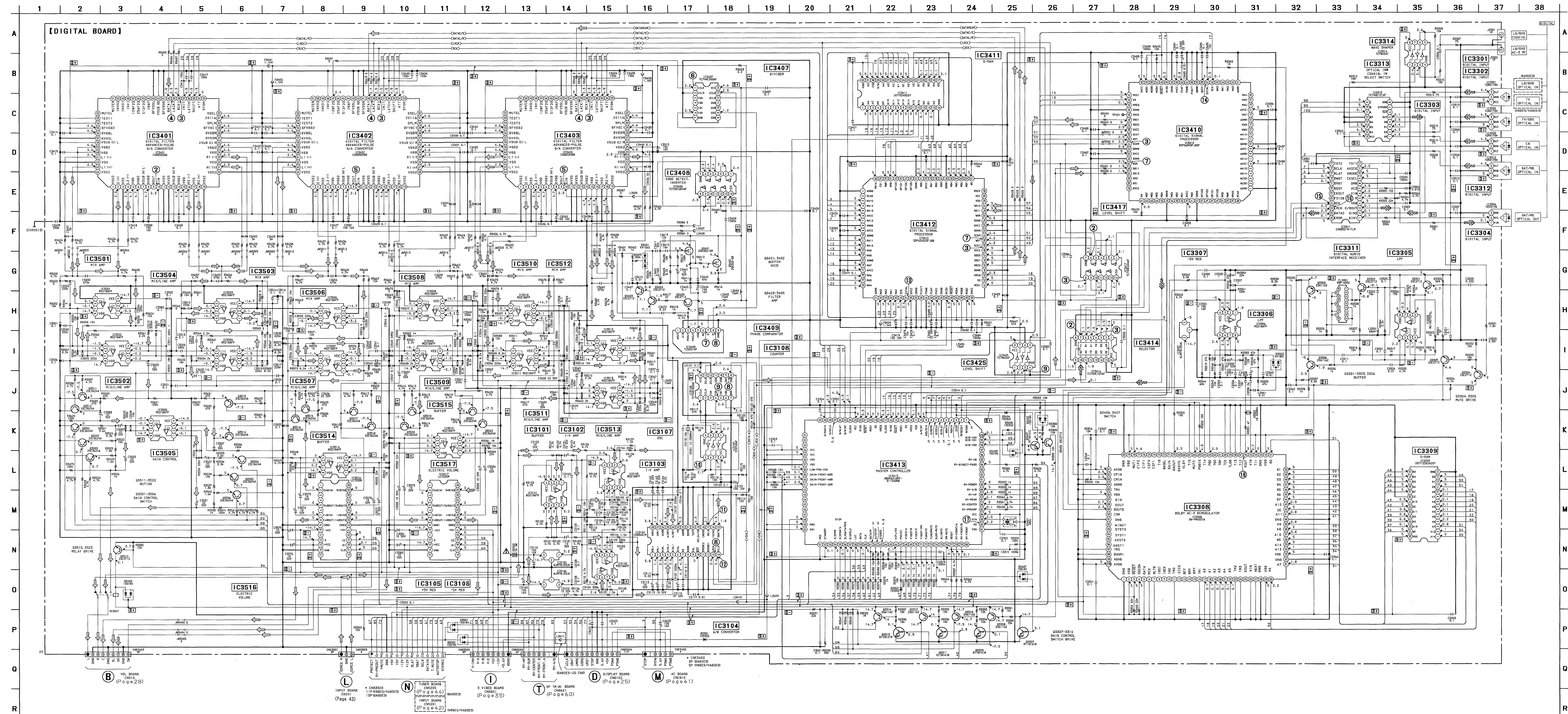
- : parts extracted from the component side.
- : Pattern from the side which enables seeing.
- Abbreviation
DA80ES : STR-DA80ES
V88ES : TA-V88ES
VA80ES : TA-VA80ES
CND : Canadian
EE : East European
G : German

- Note on Schematic Diagram:**
- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 -  : nonflammable resistor.
 -  : panel designation.
- Note:**
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.
- Note:**
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
- $\overline{\text{B+}}$: B+ Line.
 - $\overline{\text{B-}}$: 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 Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 : FM
 - Abbreviation
DA80ES : STR-DA80ES
V88ES : TA-V88ES
VA80ES : TA-VA80ES
CND : Canadian
AUS : Australian
EE : East European
G : German





4-B. SCHEMATIC DIAGRAM - DIGITAL Section - • See page 22 for Waveforms. • See page 65 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.

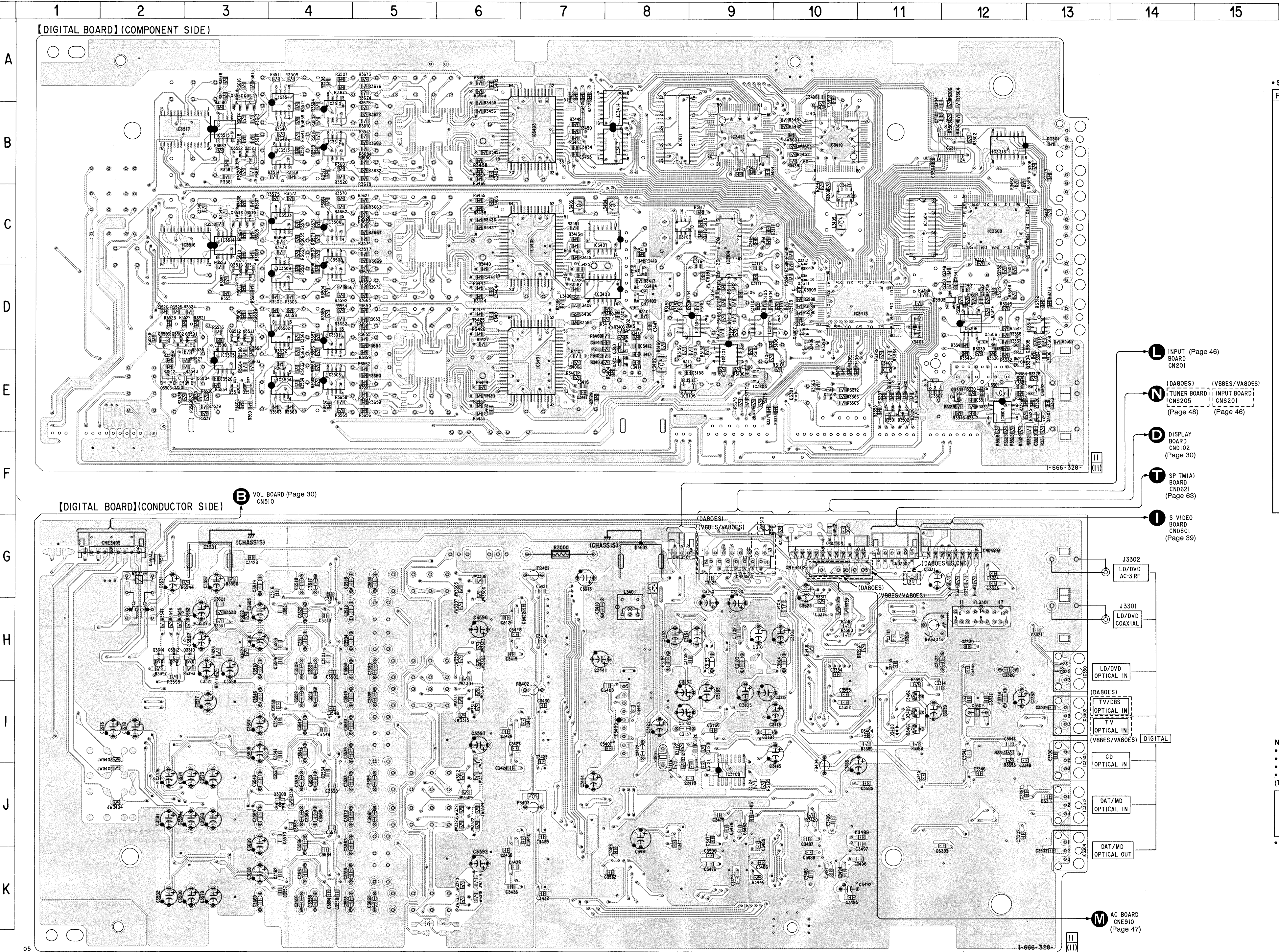
Note:

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

Note:

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

- \square : B+ Line.
- \square : 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 M Ω). 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
- \rightarrow : digital (optical) in/out
- Abbreviation
- DA80ES: STR-DA80ES
- V88ES: TA-V88ES
- VA80ES: TA-VA80ES



• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D3301 | E-10 | IC3507 | C-4 |
| D3302 | E-10 | IC3508 | C-4 |
| D3303 | D-12 | IC3509 | D-4 |
| D3401 | E-8 | IC3510 | B-4 |
| D3402 | I-11 | IC3511 | A-4 |
| D3403 | G-2 | IC3512 | B-4 |
| D3404 | I-11 | IC3513 | B-4 |
| D3407 | E-11 | IC3514 | C-3 |
| D3408 | I-11 | IC3515 | B-3 |
| D3409 | I-11 | IC3516 | C-3 |
| D3501 | E-11 | IC3517 | B-2 |
| D3502 | E-11 | | |
| IC3101 | E-9 | Q3301 | E-13 |
| IC3102 | D-9 | Q3302 | E-13 |
| IC3103 | E-12 | Q3303 | E-12 |
| IC3104 | C-9 | Q3304 | E-12 |
| IC3105 | E-9 | Q3305 | D-12 |
| IC3106 | E-9 | Q3306 | D-12 |
| IC3107 | C-8 | Q3307 | D-10 |
| IC3108 | J-9 | Q3308 | J-4 |
| IC3301 | H-13 | Q3309 | D-10 |
| IC3302 | I-13 | Q3310 | H-3 |
| IC3303 | I-13 | Q3311 | D-10 |
| IC3304 | K-13 | Q3312 | H-2 |
| IC3305 | E-12 | Q3313 | C-10 |
| IC3306 | D-12 | Q3314 | H-2 |
| IC3307 | E-11 | Q3401 | D-8 |
| IC3308 | C-12 | Q3402 | D-8 |
| IC3309 | C-11 | Q3403 | D-8 |
| IC3311 | B-12 | Q3404 | D-8 |
| IC3312 | J-13 | Q3405 | D-10 |
| IC3313 | B-12 | Q3406 | D-10 |
| IC3314 | D-13 | Q3407 | E-11 |
| IC3401 | E-7 | Q3501 | D-3 |
| IC3402 | C-7 | Q3502 | D-2 |
| IC3403 | B-7 | Q3503 | D-2 |
| IC3407 | C-7 | Q3504 | E-3 |
| IC3408 | D-7 | Q3505 | E-2 |
| IC3409 | I-8 | Q3506 | E-2 |
| IC3410 | B-10 | Q3510 | G-9 |
| IC3411 | B-8 | Q3511 | D-3 |
| IC3412 | B-9 | Q3512 | D-3 |
| IC3413 | D-11 | Q3513 | E-3 |
| IC3414 | B-8 | Q3514 | E-3 |
| IC3417 | B-8 | Q3515 | C-3 |
| IC3425 | C-10 | Q3516 | C-3 |
| IC3501 | D-4 | Q3517 | C-3 |
| IC3502 | D-4 | Q3518 | C-3 |
| IC3503 | E-4 | Q3519 | A-3 |
| IC3504 | E-4 | Q3520 | A-3 |
| IC3505 | E-3 | Q3521 | B-3 |
| IC3506 | C-4 | Q3522 | B-3 |

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. (The other layers' patterns are not indicated.)

Caution:

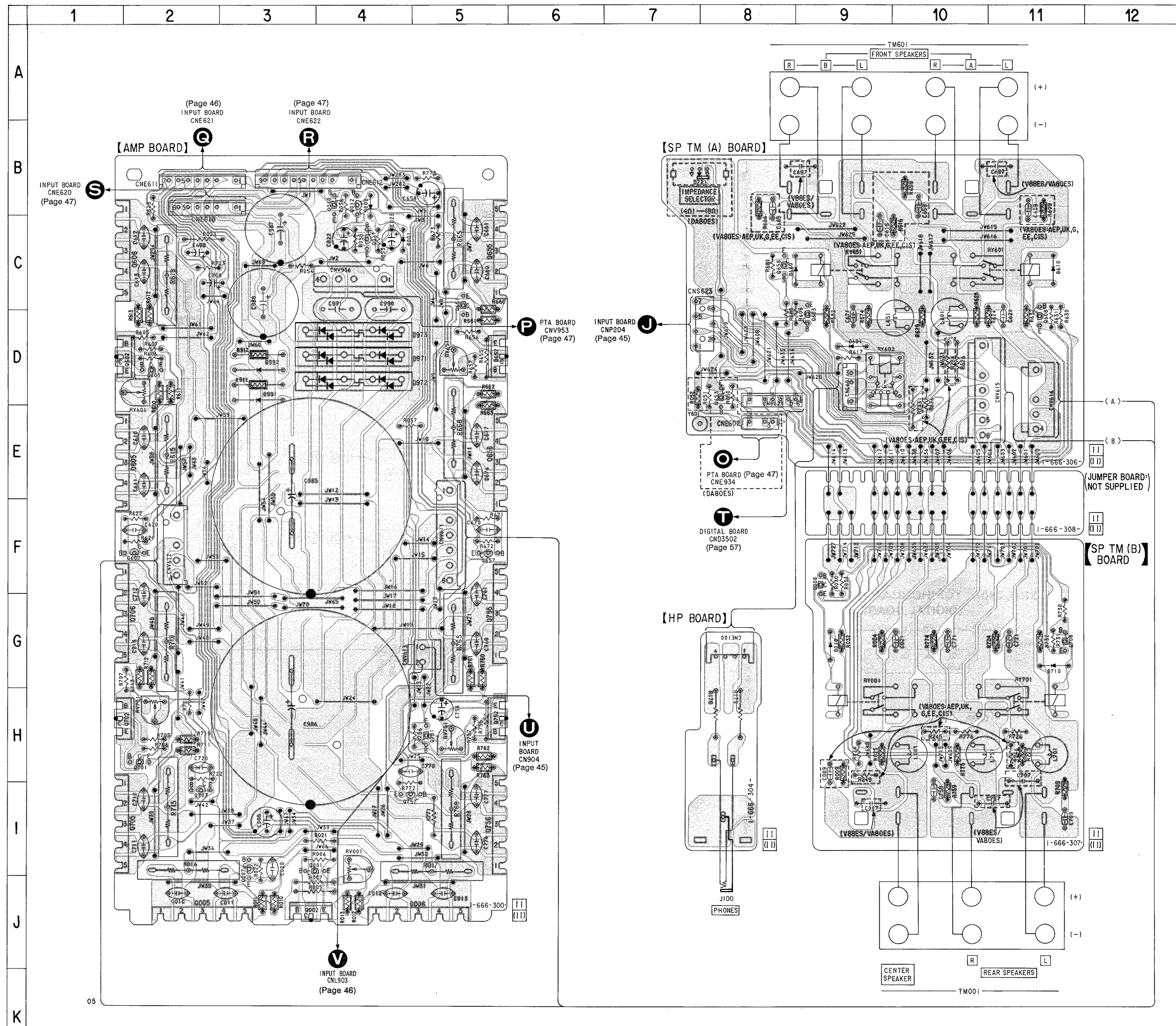
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Conductor Side)

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

• Abbreviation
DA80ES : STR-DA80ES
V88ES : TA-V88ES
VA80ES : TA-VA80ES
CND : Canadian





4-11. PRINTED WIRING BOARDS – AMP/OUTPUT Section – • See page 21 for Circuit Boards Location.



- **Semiconductor Location**

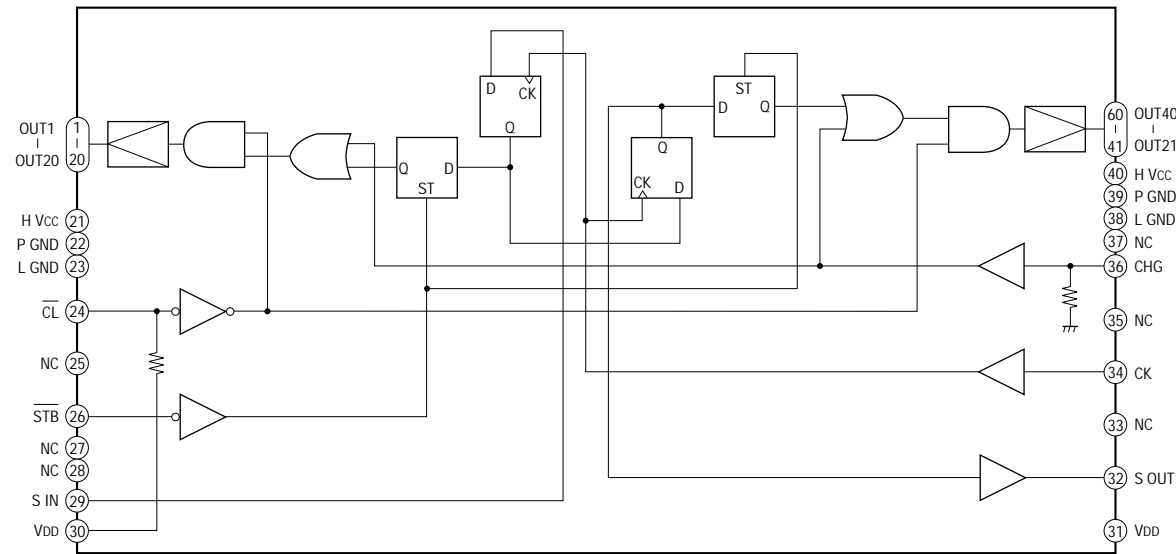
| Ref. No. | Location |
|----------|----------|
| D001 | C-4 |
| D002 | B-4 |
| D010 | G-9 |
| D601 | D-9 |
| D610 | C-11 |
| D660 | C-8 |
| D710 | G-11 |
| D971 | D-5 |
| D972 | D-5 |
| D973 | D-5 |
| D991 | D-3 |
| D992 | D-3 |
| Q001 | I-4 |
| Q002 | J-3 |
| Q005 | J-2 |
| Q006 | J-5 |
| Q007 | J-3 |
| Q008 | F-9 |
| Q010 | B-4 |
| Q011 | C-4 |
| Q012 | B-4 |
| Q601 | D-2 |
| Q602 | D-2 |
| Q603 | D-9 |
| Q605 | E-2 |
| Q606 | C-2 |
| Q607 | F-2 |
| Q608 | D-11 |
| Q651 | C-5 |
| Q652 | D-5 |
| Q653 | D-8 |
| Q655 | C-5 |
| Q656 | E-5 |
| Q657 | F-5 |
| Q658 | C-8 |
| Q701 | H-2 |
| Q702 | H-2 |
| Q705 | I-2 |
| Q706 | G-2 |
| Q707 | I-2 |
| Q708 | G-11 |
| Q751 | H-5 |
| Q752 | H-5 |
| Q755 | G-5 |
| Q756 | I-5 |
| Q757 | I-5 |

Note on Printed Wiring Board:

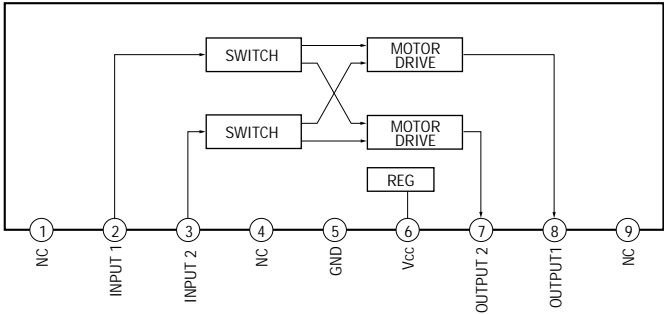
-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.
- Abbreviation
 - DA80ES : STR-DA80ES
 - V88ES : TA-V88ES
 - VA80ES : TA-VA80ES
 - EE : East European
 - G : German
 - MY : Malaysia
 - SP : Singapore

• IC Block Diagrams

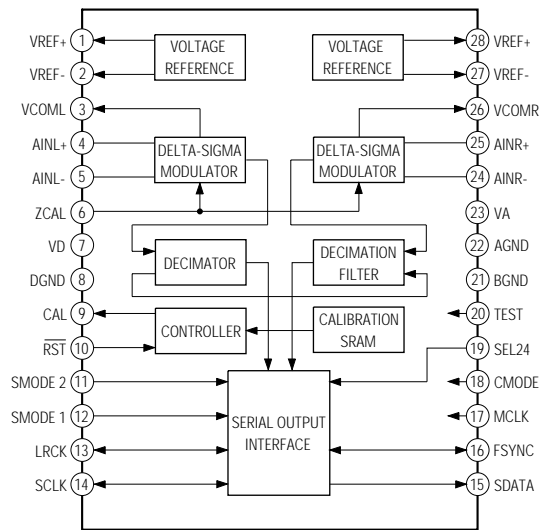
IC101 TD62C950RF (DISPLAY BOARD)



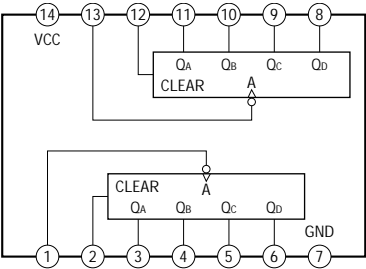
IC140 BA6208 (BAL (A) BOARD)



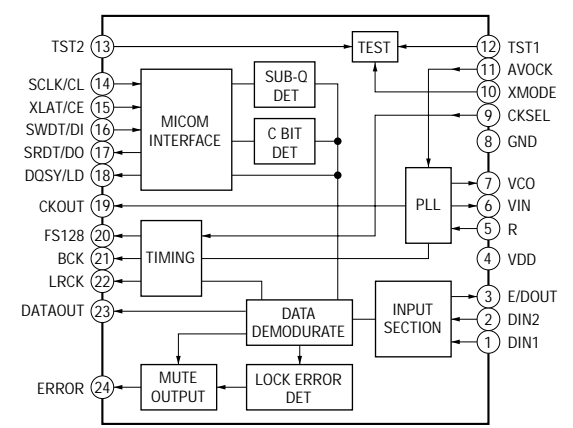
IC3104 CXD8681M-TP (DIGITAL BOARD)



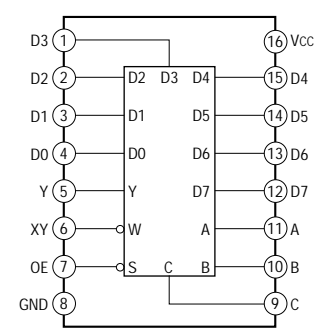
IC3108, 3407 TC74HC393AF-TP1 (DIGITAL BOARD)



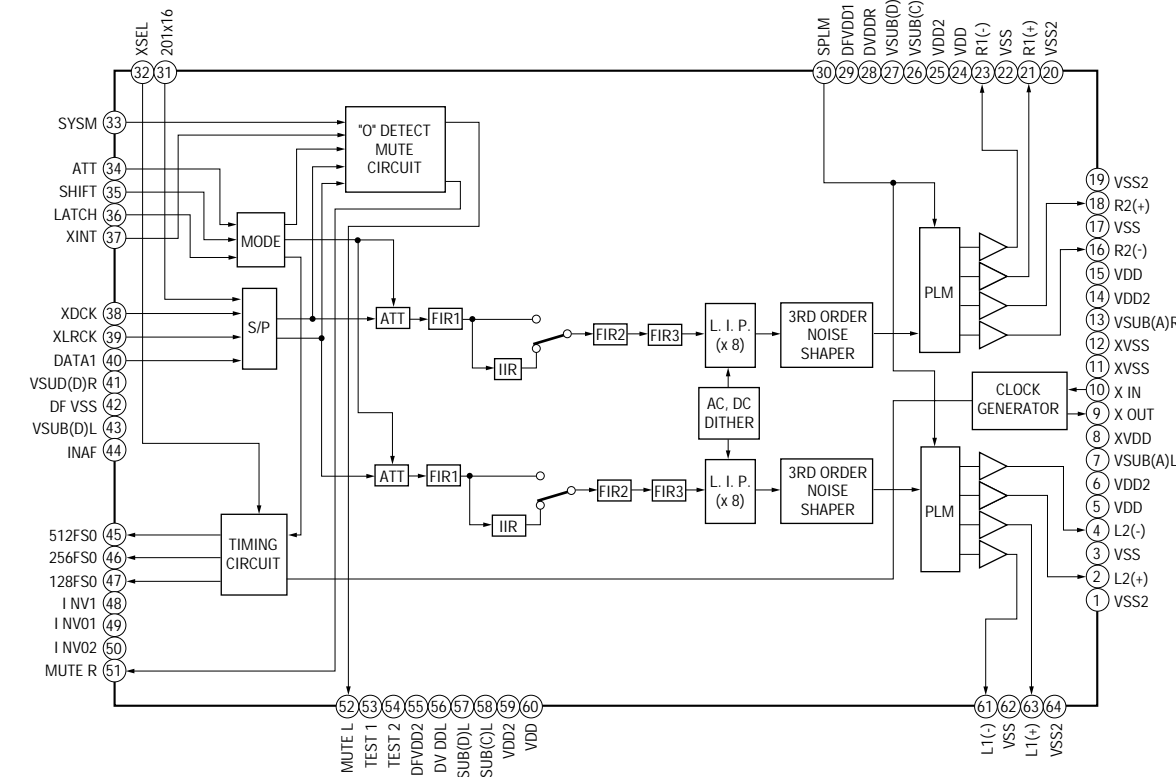
IC3311 CXD8521M (DIGITAL BOARD)



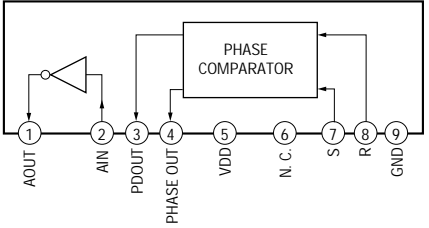
IC3313 TC74HC151AF-TP1 (DIGITAL BOARD)



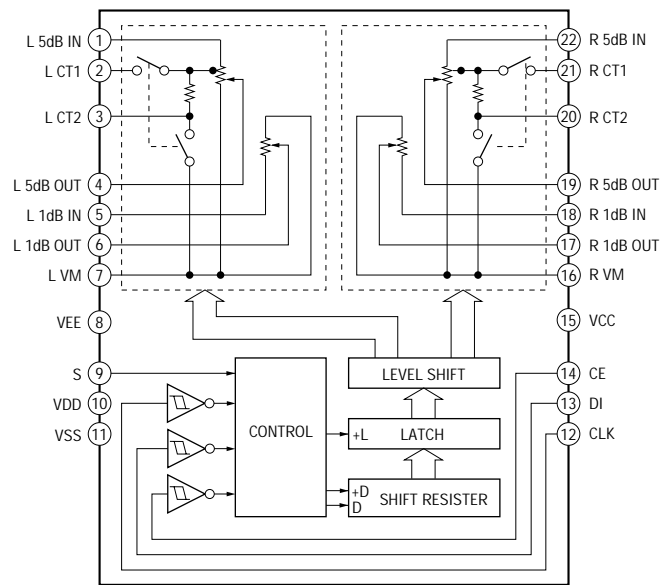
IC3401, 3402, 3403 CXD8505BQ (DIGITAL BOARD)



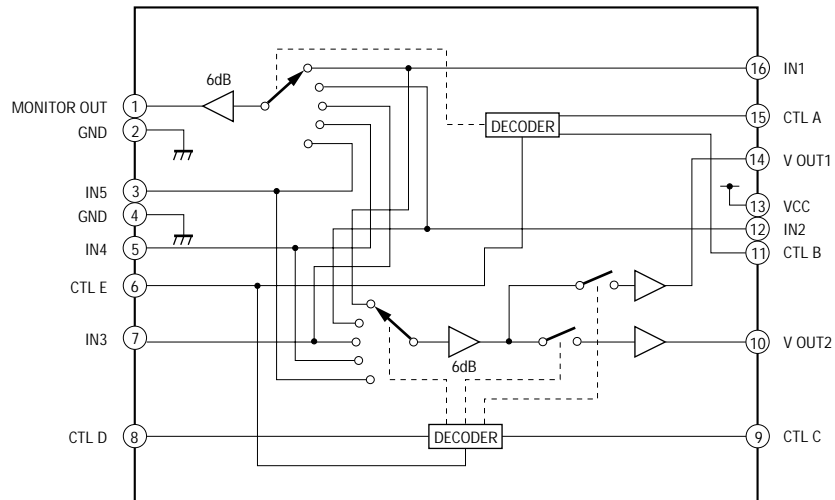
IC3409 TC5081AP (DIGITAL BOARD)



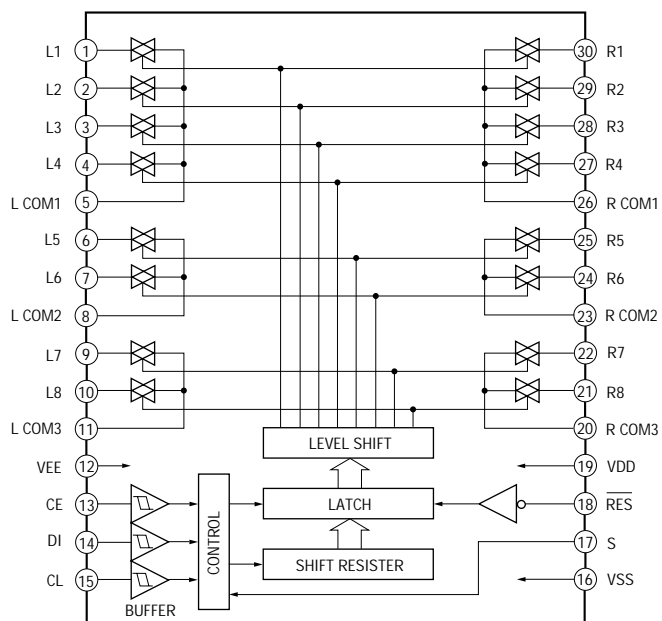
IC3516 LC7535M-TP (DIGITAL BOARD)



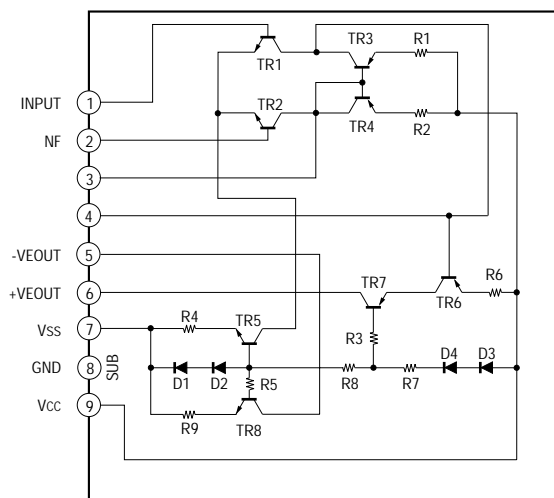
IC803, 804 SN741200 (S VIDEO BOARD) IC811 SN741200 (VIDEO BOARD)



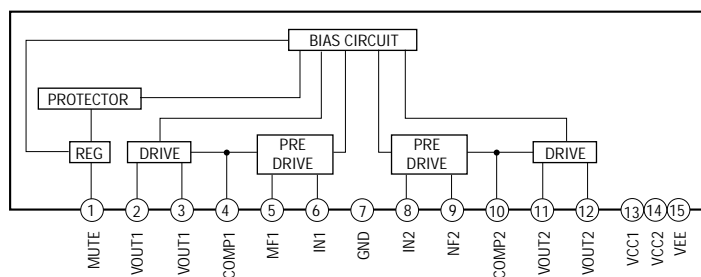
IC202 LC7821 (INPUT BOARD)
IC291 LC7821 (AUDIO BOARD)



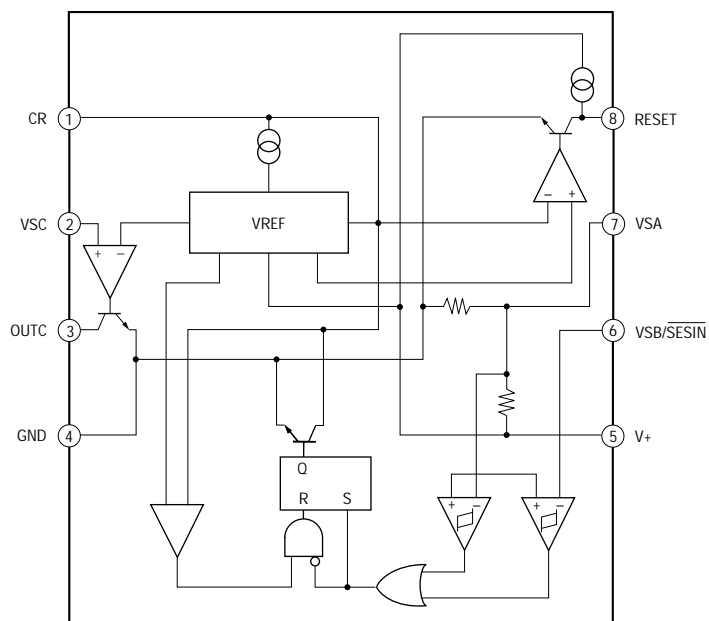
IC001, 601, 651 STK350-230 (INPUT BOARD)



IC701 μ PC2581V (INPUT BOARD)



IC901 NJM2103D (AC BOARD)



SECTION 5

EXPLODED VIEWS

NOTE:



- Color Indication of Appearance Parts
Example:

1
KNOB, BALANCE (WHITE) . . . (RED)

| | |
|-------------|-----------------|
| Parts Color | Cabinet's Color |
|-------------|-----------------|

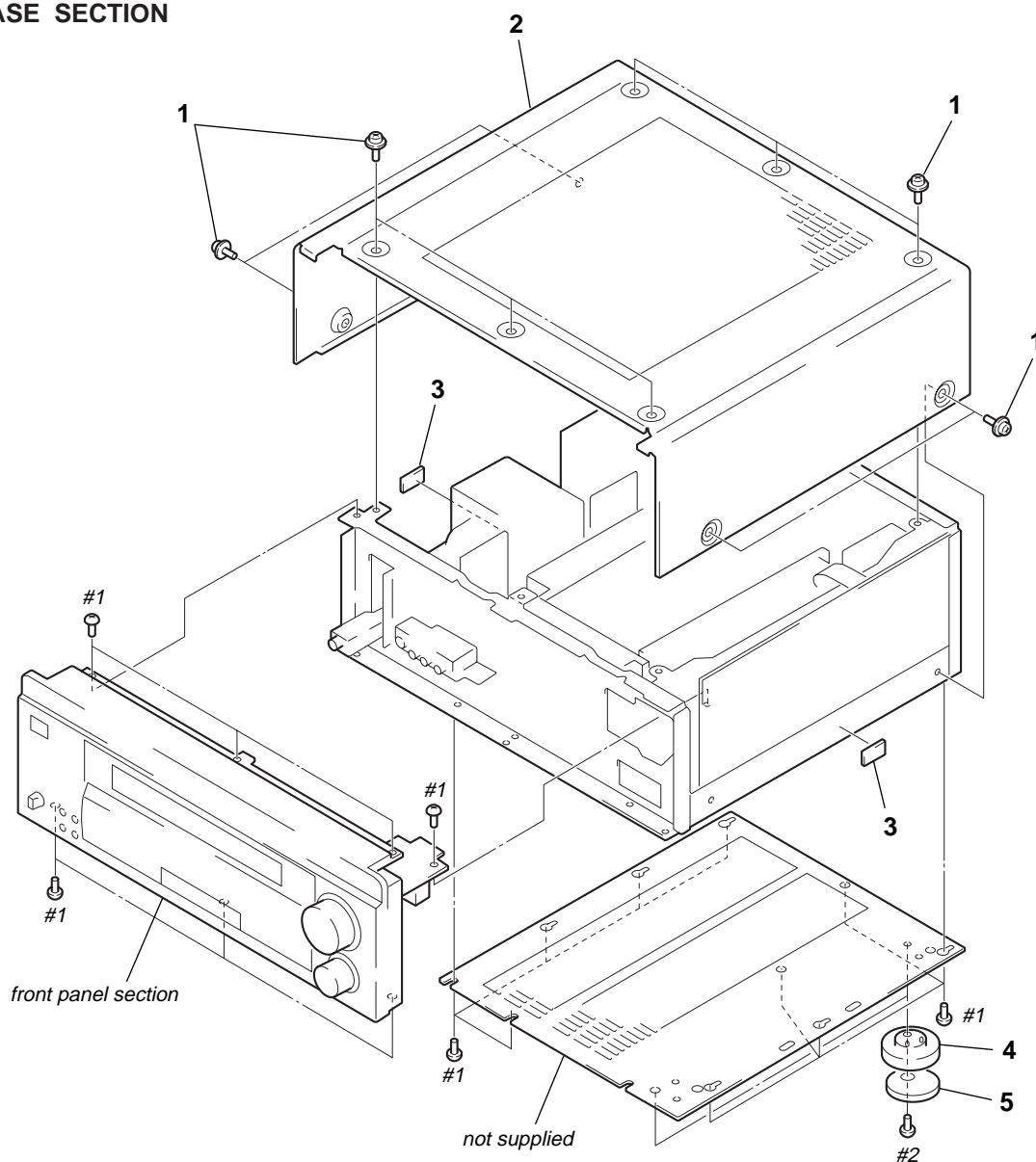
- G : German MY : Malaysia
EE: East European AUS : Australian
SP: Singapore

- The mechanical parts with no reference number in the exploded views are not supplied.

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

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

(1) CASE SECTION

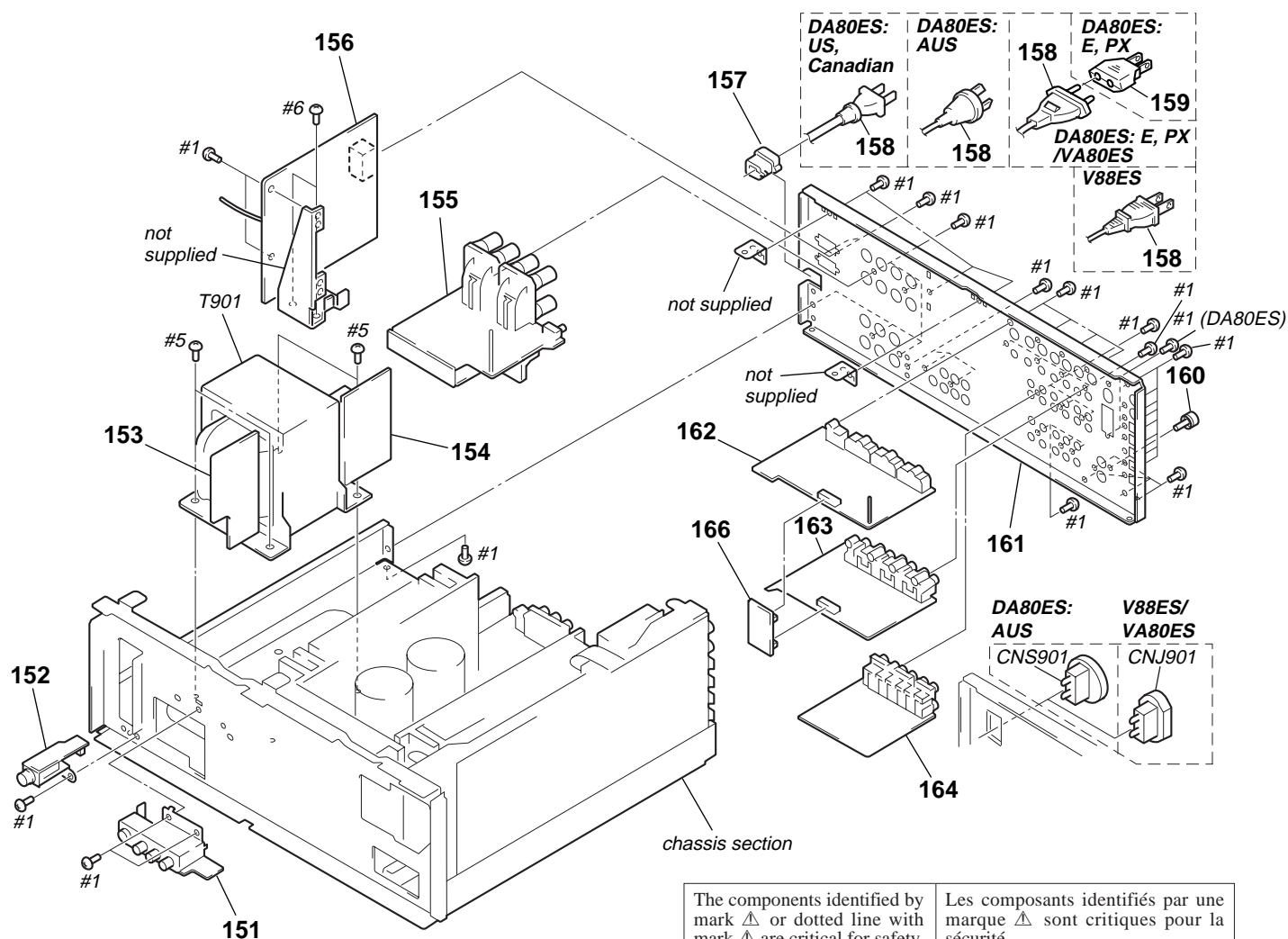


| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---|--------|----------|--------------|---|--------|
| 1 | 3-704-366-01 | SCREW (CASE) (M3X8) (BLACK) (DA80ES/ VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | * 2 | 4-982-090-21 | CASE (414538E) (SILVER) (V88ES/VA80ES:AEP, UK, G, EE, CIS) | |
| 1 | 3-704-366-11 | SCREW (CASE) (M3X8) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | | 3 | 4-985-642-01 | CUSHION | |
| | | | | 4 | 4-970-123-01 | FOOT (F50180S) | |
| * 2 | 4-982-090-01 | CASE (414538E) (BLACK) (DA80ES/ VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 5 | 4-970-124-01 | CUSHION (F50180S) | |

[illegible]

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|----------|--------------|--|--------|
| 51 | 4-991-378-11 | PANEL, FRONT (BLACK) (DA80ES: US, Canadian) | | * 76 | A-4398-778-A | DISPLAY BOARD, COMPLETE (DA80ES: US, Candian) | |
| 51 | 4-991-378-41 | PANEL, FRONT (BLACK) (VA80ES:AEP, UK, G, EE, CIS, E, SP, MY) | | * 76 | A-4398-779-A | DISPLAY BOARD, COMPLETE (DA80ES: AUS) | |
| 51 | 4-991-378-51 | PANEL, FRONT (SILVER) (V88ES) | | * 76 | A-4398-780-A | DISPLAY BOARD, COMPLETE (DA80ES: E, PX) | |
| 51 | 4-991-378-81 | PANEL, FRONT (BLACK) (DA80ES: E, AUS, PX) | | * 76 | A-4398-819-A | DISPLAY BOARD, COMPLETE (V88ES/VA80ES) | |
| 51 | 4-991-378-91 | PANEL, FRONT (SILVER) (VA80ES: AEP, UK, G, EE, CIS) | | 77 | A-4384-609-A | SHAFT (LINK) ASSY | |
| 52 | 4-942-568-01 | EMBLEM (NO.5), SONY (BLACK) (DA80ES/ VA80ES: AEP, UK, EE, CIS, E, SP, MY) | | 78 | 4-991-383-01 | BUTTON (SUB) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 52 | 4-942-568-21 | EMBLEM (NO.5), SONY (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | | 78 | 4-991-383-11 | BUTTON (SUB) (SILVER) (V88ES/VA80ES: AEP, UK, EE, CIS) | |
| 53 | X-4948-619-1 | LID (FRONT) ASSY (BLACK) (DA80ES/ VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 79 | 4-991-382-01 | BUTTON (MAIN) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 53 | X-4948-621-1 | LID (FRONT) ASSY (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | | 79 | 4-991-382-11 | BUTTON (MAIN) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| 54 | 3-974-992-01 | SLIDER (L), DOOR | | * 80 | 1-666-309-11 | VOL BOARD | |
| 55 | 4-991-596-01 | SPRING, TENSION | | * 81 | 1-666-316-11 | BAL (B) BOARD | |
| 56 | 4-991-406-01 | FRAME (DOOR L) | | * 82 | 1-666-315-11 | BAL (A) BOARD | |
| 57 | X-4948-616-1 | SHAFT (L) ASSY, DOOR DRIVING | | 83 | 4-991-379-01 | BASE, PANEL (BLACK) (DA80ES) | |
| 58 | 4-991-393-01 | LID (BASE) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 83 | 4-991-379-31 | BASE, PANEL (BLACK) (VA80ES: AEP, UK, EE, CIS, E, SP, MY) | |
| 58 | 4-991-393-11 | LID (BASE) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | | 83 | 4-991-379-41 | BASE, PANEL (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| * 59 | 1-666-331-11 | CONNECTOR BOARD | | 84 | 4-991-385-01 | BUTTON (MODE) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 60 | 4-991-394-01 | LID (BACK) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 84 | 4-991-385-11 | BUTTON (MODE) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| 60 | 4-991-394-11 | LID (BACK) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | | 85 | X-4948-600-1 | KNOB (VOL) ASSY (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 61 | 4-957-383-01 | KNOB (F14) (BLACK) (DA80ES/VA80ES:AEP, UK, G, EE, CIS, E, SP, MY) | | 85 | X-4948-633-1 | KNOB (VOL) ASSY (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| 61 | 4-957-383-21 | KNOB (F14) (SILVER) (V88ES/VA80ES:AEP, UK, G, EE, CIS, E, SP, MY) | | 86 | X-4948-601-1 | KNOB (FUNC) ASSY (BLACK) (DA80ES/ VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 62 | 4-991-384-01 | BUTTON (TUNER) (DA80ES) | | 86 | X-4948-634-1 | KNOB (FUNC) ASSY (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| 63 | 4-991-390-01 | PANEL (WINDOW) (BLACK) (DA80ES) | | 87 | X-4948-617-1 | SHAFT (R) ASSY, DOOR DRIVING | |
| 63 | 4-991-390-31 | PANEL (WINDOW) (BLACK) (VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 88 | 3-974-989-01 | SLIDER, DOOR (R) | |
| 63 | 4-991-390-41 | PANEL (WINDOW) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | | 89 | 4-991-407-01 | FRAME (DOOR R) | |
| 64 | 4-991-389-21 | WINDOW (DA80ES: US, Canadian) | | 90 | 4-991-387-01 | INDICATOR (MUTE) | |
| 64 | 4-991-389-31 | WINDOW (DA80ES: E, AUS, PX/V88ES/ VA80ES) | | 91 | 1-475-109-21 | SWITCH (A) BLOCK, TOUCH | |
| 65 | A-4384-608-A | BASE ASSY, GEAR | | 92 | 1-475-109-31 | SWITCH (B) BLOCK, TOUCH | |
| * 66 | 1-666-314-11 | SENSOR BOARD | | 93 | 1-775-084-11 | WIRE (FLAT TYPE) (9 CORE) | |
| 67 | 4-812-134-00 | RIVET (DIA. 3.5), NYLON | | 94 | 4-980-639-01 | KNOB (R14) (BLACK) (DA80ES/VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 68 | 3-325-697-01 | WASHER | | 94 | 4-980-639-31 | KNOB (R14) (SILVER) (V88ES/VA80ES: AEP,UK, G, EE, CIS) | |
| 69 | 3-975-016-01 | GEAR (D) | | 95 | 4-979-936-01 | BUTTON (P-T) (BLACK) (DA80ES) | |
| 70 | 3-377-720-01 | WASHER, POLYETHYLENE | | 95 | 4-980-109-01 | BUTTON (P-M) (BLACK) (VA80ES: AEP, UK, G, EE, CIS, E, SP, MY) | |
| 71 | 3-975-015-01 | GEAR (C) | | 95 | 4-980-109-41 | BUTTON (P-M) (SILVER) (V88ES/VA80ES: AEP, UK, G, EE, CIS) | |
| 72 | 3-975-014-01 | GEAR (B) | | 96 | 4-991-388-01 | INDICATOR (FUNC) | |
| * 73 | 1-666-313-11 | MOTOR TM BOARD | | 97 | 4-991-391-01 | FILTER | |
| 74 | X-4948-598-1 | BRACKET (MOTOR) ASSY | | 98 | 4-991-386-01 | BUTTON (WINDOW) | |
| * 75 | 1-666-330-11 | SP SW BOARD | | 99 | 4-994-595-01 | SPACER (LID) | |
| | | | | M101 | A-4384-605-A | MOTOR ASSY (DOOR OPEN/CLOSE) | |

(3) BACK PANEL SECTION

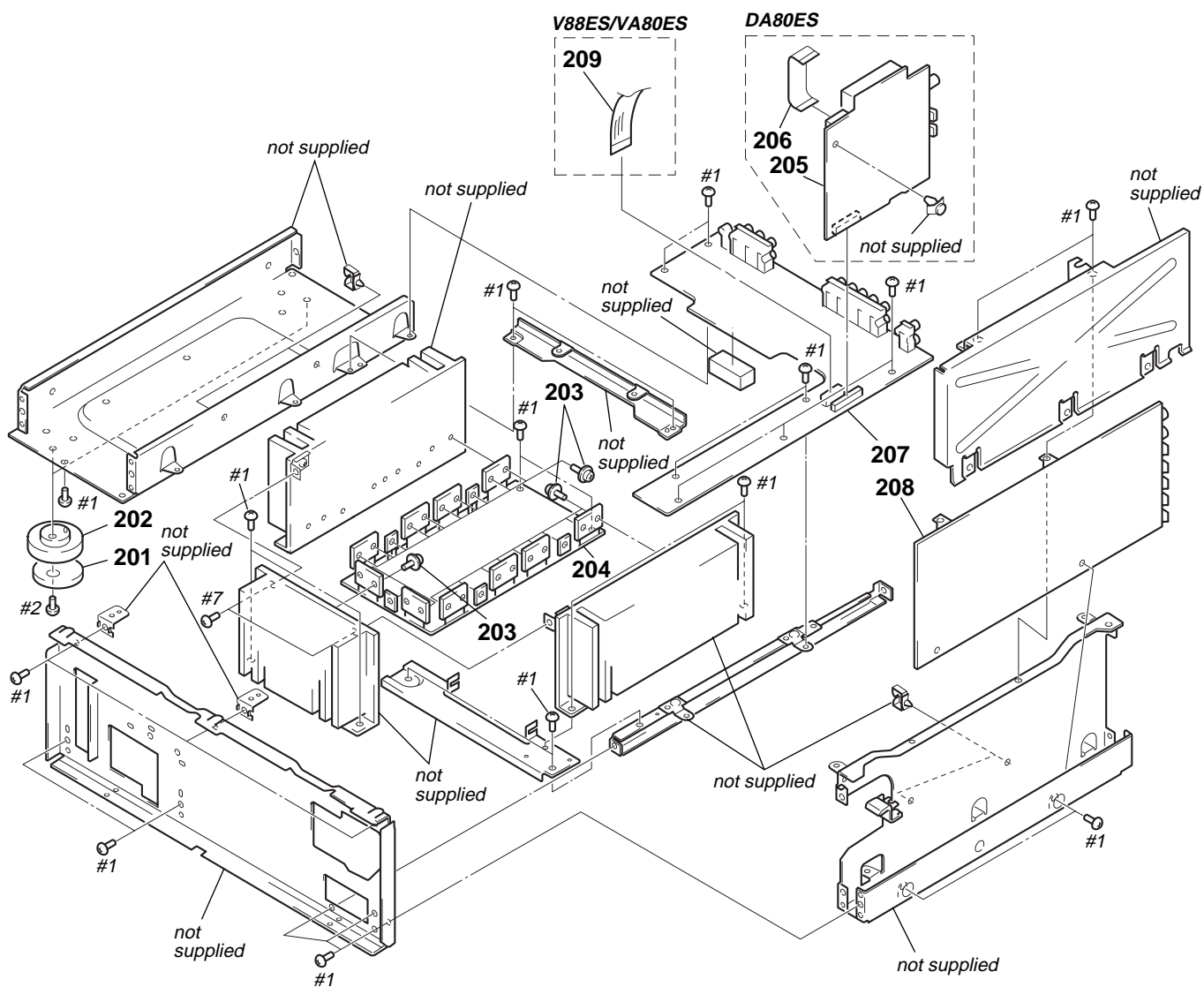


| | |
|---|---|
| <p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|--------------|--------------|---------------------------------------|-----------------------------------|
| * 151 | 1-666-305-11 | F.VIDEO BOARD | |
| * 152 | 1-666-304-11 | HP BOARD | |
| * 153 | 1-666-303-11 | PTB BOARD | |
| * 154 | 1-666-302-11 | PTA BOARD | |
| * 155 | A-4398-793-A | SPTM BOARD, COMPLETE (DA80ES) | |
| * 155 | A-4398-827-A | SPTM BOARD, COMPLETE (V88ES/VA80ES) | |
| * 156 | A-4398-769-A | AC BOARD, COMPLETE | (DA80ES: US, Canadian) |
| * 156 | A-4398-770-A | AC BOARD, COMPLETE (DA80ES: AUS) | |
| * 156 | A-4398-771-A | AC BOARD, COMPLETE (DA80ES: E, PX) | |
| * 156 | A-4398-816-A | AC BOARD, COMPLETE (V88ES/VA80ES) | |
| * 157 | 3-703-244-00 | BUSHING (2104), CORD | (DA80ES: E, AUS, PX/V88ES/VA80ES) |
| 157 | 4-916-783-01 | BUSHING, CORD (DA80ES: US, Canadian) | |
| Δ 158 | 1-559-479-11 | CORD, POWER (DA80ES: US, Canadian) | |
| Δ 158 | 1-690-608-11 | CORD, POWER (DA80ES: AUS) | |
| Δ 158 | 1-776-095-11 | CORD, POWER (DA80ES: E, PX/VA80ES) | |
| Δ 158 | 1-782-464-21 | CORD, POWER (V88ES) | |
| Δ 159 | 1-569-008-21 | ADAPTOR, CONVERSION 2P (DA80ES:E ,PX) | |
| 160 | 4-947-010-01 | SCREW, FEEDER FIXED | |
| * 161 | 4-991-373-31 | PANEL (STR), BACK (DA80ES: US) | |
| * 161 | 4-991-373-41 | PANEL (STR), BACK (DA80ES: Canadian) | |

| Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---------------------------------------|-----------------------------------|
| * 161 | 4-991-373-51 | PANEL (STR), BACK (DA80ES: AUS) | |
| * 161 | 4-991-373-61 | PANEL (STR), BACK (DA80ES: E, PX) | |
| * 161 | 4-991-374-01 | PANEL (TA), BACK | (VA80ES: AEP, UK, G, EE, CIS) |
| * 161 | 4-991-374-31 | PANEL (TA), BACK (VA80ES: E, SP, MY) | |
| * 161 | 4-991-374-41 | PANEL (TA), BACK (V88ES) | |
| * 162 | A-4398-773-A | S VIDEO BOARD, COMPLETE | (DA80ES: US, Canadian) |
| * 162 | A-4398-774-A | S VIDEO BOARD, COMPLETE | (DA80ES: E, AUS, PX/V88ES/VA80ES) |
| * 163 | A-4398-772-A | VIDEO BOARD, COMPLETE | |
| * 164 | 1-666-322-11 | AUDIO BOARD | |
| * 166 | 1-666-324-11 | CBV BOARD | |
| Δ CNS901 | 1-251-416-11 | OUTLET, A.C. (DA80ES: AUS) | |
| Δ CNS901 | 1-526-794-11 | OUTLET, AC (V88ES/VA80ES: E, MY, SP) | |
| Δ T901 | 1-431-388-11 | TRANSFORMER, POWER (DA80ES: E, PX) | |
| Δ T901 | 1-431-389-11 | TRANSFORMER, POWER (DA80ES: AUS) | |
| Δ T901 | 1-431-391-11 | TRANSFORMER, POWER (DA80ES: US) | |
| Δ T901 | 1-431-392-11 | TRANSFORMER, POWER (DA80ES: Canadian) | |
| Δ T901 | 1-431-393-11 | TRANSFORMER, POWER (V88ES/VA80ES) | |

(4) CHASSIS SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|----------|--------------|---|--------|
| 201 | 4-970-124-01 | CUSHION (F50180S) | | * 207 | A-4398-782-A | INPUT BOARD, COMPLETE (DA80ES) | |
| 202 | 4-970-123-01 | FOOT (F50180S) | | * 207 | A-4398-823-A | INPUT BOARD, COMPLETE (V88ES/VA80ES) | |
| 203 | 3-905-609-01 | SCREW (TRANSISTOR) | | * 208 | A-4398-831-A | DIGITAL BOARD, COMPLETE (V88ES/VA80ES) | |
| * 204 | A-4403-068-A | AMP BOARD, COMPLETE (DA80ES) | | * 208 | A-4403-829-A | DIGITAL BOARD, COMPLETE (DA80ES: AUS) | |
| * 204 | A-4403-069-A | AMP BOARD BOARD, COMPLETE (V88ES/ VA80ES) | | * 208 | A-4403-830-A | DIGITAL BOARD, COMPLETE (DA80ES: US, Canadian) | |
| * 205 | 1-666-310-11 | TUNER BOARD (DA80ES) | | * 208 | A-4403-831-A | DIGITAL BOARD, COMPLETE (DA80ES: E, PX) | |
| 206 | 1-773-001-11 | WIRE (FLAT TYPE) (15 CORE) (DA80ES) | | 209 | 1-769-946-11 | WIRE (FLAT TYPE) (11 CORE) (V88ES/VA80ES) | |

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
DA80ES: STR-DA80ES V88ES: TA-V88ES VA80ES: TA-VA80ES
AUS: Australian EE: East European G: German MY: Malaysia SP: Singapore

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---|--------|----------------|--------------|--|--------|
| * | A-4398-769-A | AC BOARD, COMPLETE (DA80ES: US, Canadian) | | D904 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| * | A-4398-770-A | AC BOARD, COMPLETE (DA80ES: AUS) | | D905 | 8-719-987-63 | DIODE 1N4148M | |
| * | A-4398-771-A | AC BOARD, COMPLETE (DA80ES: E, PX) | | D906 | 8-719-987-63 | DIODE 1N4148M | |
| * | A-4398-816-A | AC BOARD, COMPLETE (V88ES/VA80ES) ***** | | D907 | 8-719-987-63 | DIODE 1N4148M | |
| | 1-533-293-11 | HOLDER, FUSE | | | | < EARTH TERMINAL > | |
| | 7-685-872-09 | SCREW +BVTT 3X8 (S) | | EB901 | 1-537-738-21 | TERMINAL, EARTH | |
| | | < CAPACITOR > | | | | < FUSE > | |
| C901 | 1-164-097-11 | CERAMIC 0.022uF | 50V | Δ F901 | 1-532-465-51 | FUSE, TIME LAG (3.15A/250V) (DA80ES: E, AUS, PX/V88ES/VA80ES) | |
| C902 | 1-164-097-11 | CERAMIC 0.022uF | 50V | Δ F901 | 1-533-312-11 | FUSE, GLASS CYLINDRICAL (DIA.5) (10A/125V) (DA80ES: US, Canadian) | |
| C903 | 1-126-767-11 | ELECT 1000uF 20% | 16V | Δ F903 | 1-532-464-51 | FUSE (2.5A/250V) (DA80ES: AUS/V88ES/VA80ES) | |
| C904 | 1-126-960-11 | ELECT 1uF 20% | 50V | | | | |
| C905 | 1-126-959-11 | ELECT 0.47uF 20% | 50V | Δ F904 | 1-532-465-51 | FUSE, TIME LAG (3.15A/250V) (DA80ES: E, PX) | |
| C906 | 1-124-464-11 | ELECT 0.22uF 20% | 50V | | | < IC > | |
| C907 | 1-126-964-11 | ELECT 10uF 20% | 50V | IC901 | 8-759-333-83 | IC NJM2103D | |
| C908 | 1-164-159-11 | CERAMIC 0.1uF | 50V | | | < TRANSISTOR > | |
| C910 | 1-164-159-11 | CERAMIC 0.1uF | 50V | Q901 | 8-729-119-79 | TRANSISTOR 2SC2785-FEK | |
| C911 | 1-164-159-11 | CERAMIC 0.1uF | 50V | Q902 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| C912 | 1-164-159-11 | CERAMIC 0.1uF | 50V | | | < RESISTOR > | |
| Δ C913 | 1-113-927-11 | CERAMIC 0.01uF 99% 125V (V88ES/VA80ES) | | R900 | 1-249-393-11 | CARBON 10 5% 1/4W | |
| | | < CONNECTOR > | | Δ R901 | 1-202-725-00 | SOLID 3.3M 10% 1/2W (DA80ES: US, Canadian) | |
| CNE910 | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P (DA80ES) | | R902 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| CNE910 | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P (V88ES/VA80ES) | | R903 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| CNP905 | 1-774-108-11 | PIN, CONNECTOR (PC BOARD) (DA80ES: AUS/V88ES/VA80ES) | | R904 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| CNV901 | 1-564-321-00 | PIN, CONNECTOR 2P | | R905 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| * CNV902 | 1-565-792-11 | PIN, CONNECTOR 2P | | R906 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| CNV903 | 1-568-106-11 | PIN, CONNECTOR 4P (DA80ES: E, PX) | | R908 | 1-249-433-11 | CARBON 22K 5% 1/4W | |
| | | < AC OUTLET > | | R909 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| Δ CNJ901 | 1-540-060-11 | OUTLET, AC (POLAR) (AC OUTLET) (DA80ES: US, Canadian, E, PX) | | R910 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| | | < DIODE > | | R912 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| D901 | 8-719-024-99 | DIODE 11ES2-NTA2B | | | | < RELAY > | |
| D902 | 8-719-024-99 | DIODE 11ES2-NTA2B | | Δ RY901 | 1-515-999-11 | RELAY, POWER | |
| D903 | 8-719-024-99 | DIODE 11ES2-NTA2B | | | | | |

| Ref. No. | Part No. | Description | Remark | | |
|-----------------|--------------|--|---------|-----|-----------------------|
| < TRANSFORMER > | | | | | |
| △ T902 | 1-431-387-11 | TRANSFORMER, POWER | | | |
| < SWITCH > | | | | | |
| △ VS901 | 1-571-437-11 | SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECT) (DA80ES: E, PX) | | | |
| ***** | | | | | |
| * | A-4403-068-A | AMP BOARD, COMPLETE (DA80ES) | | | |
| * | A-4403-069-A | AMP BOARD, COMPLETE (V88ES/VA80ES) | | | |
| ***** | | | | | |
| | 4-992-924-01 | SPACER (49) | | | |
| < CAPACITOR > | | | | | |
| C008 | 1-126-051-11 | ELECT | 47uF | 20% | 50V |
| 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 | 1-126-935-11 | ELECT | 470uF | 20% | 6.3V |
| C023 | 1-126-965-11 | ELECT | 22uF | 20% | 50V |
| C608 | 1-126-051-11 | ELECT | 47uF | 20% | 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 | 1-126-051-11 | ELECT | 47uF | 20% | 50V |
| 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 |
| C708 | 1-126-051-11 | ELECT | 47uF | 20% | 50V |
| C710 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C711 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C712 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C713 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C720 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C758 | 1-126-051-11 | ELECT | 47uF | 20% | 50V |
| C760 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C761 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C770 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C776 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C777 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V |
| C985 | 1-117-858-11 | CAPACITOR | 12000uF | 20% | 71V (DA80ES) |
| C985 | 1-117-859-11 | CAPACITOR | 12000uF | 20% | 63V (V88ES/VA80ES) |
| C986 | 1-117-858-11 | CAPACITOR | 12000uF | 20% | 71V (DA80ES) |
| C986 | 1-117-859-11 | CAPACITOR | 12000uF | 20% | 63V (V88ES/VA80ES) |
| C987 | 1-115-568-21 | ELECT | 2200uF | 20% | 71V (DA80ES) |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|----------------------------------|--------|-----|-----------------------|
| C987 | 1-113-686-21 | ELECT | 2200uF | 20% | 63V (V88ES/VA80ES) |
| C988 | 1-115-568-21 | ELECT | 2200uF | 20% | 71V (DA80ES) |
| C988 | 1-113-686-21 | ELECT | 2200uF | 20% | 63V (V88ES/VA80ES) |
| C990 | 1-106-228-00 | MYLAR | 0.22uF | 5% | 100V |
| C991 | 1-106-228-00 | MYLAR | 0.22uF | 5% | 100V |
| | | < CONNECTOR > | | | |
| CNE610 | 1-770-966-11 | PIN, CONNECTOR (PCB) (V TYPE) 6P | | | |
| CNE611 | 1-770-967-11 | PIN, CONNECTOR (PCB) (V TYPE) 7P | | | |
| CNE612 | 1-770-969-11 | PIN, CONNECTOR (PCB) (V TYPE) 9P | | | |
| CNV613 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| * CNV936 | 1-565-395-11 | PIN, CONNECTOR 3P | | | |
| | | < DIODE > | | | |
| D001 | 8-719-815-85 | DIODE 1S1585 | | | |
| D002 | 8-719-815-85 | DIODE 1S1585 | | | |
| D971 | 8-719-302-37 | DIODE RBV-602 | | | |
| D972 | 8-719-302-37 | DIODE RBV-602 | | | |
| D973 | 8-719-302-37 | DIODE RBV-602 | | | |
| D991 | 8-719-024-99 | DIODE 11ES2-NTA2B | | | |
| D992 | 8-719-024-99 | DIODE 11ES2-NTA2B | | | |
| | | < TRANSISTOR > | | | |
| Q001 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | |
| Q002 | 8-729-026-08 | TRANSISTOR 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR 2SC4495 | | | |
| Q705 | 8-749-010-43 | IC NE-N250 | | | |
| Q706 | 8-749-010-42 | IC NE-P250 | | | |
| Q707 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | | | |
| Q751 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | |
| Q752 | 8-729-026-08 | TRANSISTOR 2SC4495 | | | |
| Q755 | 8-749-010-43 | IC NE-N250 | | | |
| Q756 | 8-749-010-42 | IC NE-P250 | | | |
| Q757 | 8-729-140-82 | TRANSISTOR 2SA988-PAFAEA | | | |
| | | < RESISTOR > | | | |
| R005 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R006 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |

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.

AMP

AUDIO

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|------------------------|------|----|--------|
| R007 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| △ R010 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R011 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R012 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R013 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R016 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R017 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R021 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R022 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R023 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R053 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R054 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R055 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R056 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R057 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R605 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R606 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R607 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| △ R610 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R611 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R612 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R613 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R615 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R618 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R621 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R622 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R623 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R655 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R656 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R657 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| △ R660 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R661 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R662 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R663 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R665 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R668 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R671 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R672 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R673 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R705 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R706 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R707 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| △ R710 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R711 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R712 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R713 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R715 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R718 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R721 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R722 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R723 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R755 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R756 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R757 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| △ R760 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R761 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R762 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |

| Ref. No. | Part No. | Description | | | Remark |
|-----------------------|--------------|----------------------------------|-------------------------------|-----|--------|
| △ R763 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R765 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R768 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | |
| R771 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R772 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R773 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| △ R911 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W F |
| △ R912 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W F |
| < VARIABLE RESISTOR > | | | | | |
| RV001 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | |
| RV601 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | |
| RV651 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | |
| RV701 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | |
| RV751 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | |
| ***** | | | | | |
| * | 1-666-322-11 | AUDIO BOARD | | | |
| ***** | | | | | |
| < CAPACITOR > | | | | | |
| C209 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C210 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C212 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C213 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C214 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C215 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C223 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C259 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C260 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C262 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C263 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C264 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C265 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C273 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| C291 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C292 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C293 | 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 |
| < CONNECTOR > | | | | | |
| CNE211 | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P | | | |
| CNS210 | 1-695-093-11 | SOCKET, CONNECTOR 9P | | | |

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.

AUDIO

BAL (A)

BAL (B)

CBV

CONNECTOR

DIGITAL

| Ref. No. | Part No. | Description | Remark | | |
|----------------|--------------|-------------------------------------|--------|-----|------|
| < IC > | | | | | |
| IC291 | 8-759-805-13 | IC LC7821 | | | |
| IC292 | 8-759-634-51 | IC M5218AP | | | |
| < JACK > | | | | | |
| J210 | 1-778-064-11 | JACK, PIN 4P (LD/DVD IN, TV/DBS IN) | | | |
| J211 | 1-778-064-11 | JACK, PIN 4P (VIDEO 2 IN/OUT) | | | |
| J212 | 1-778-064-11 | JACK, PIN 4P (VIDEO 1 IN/OUT) | | | |
| < RESISTOR > | | | | | |
| 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 |
| R269 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R271 | 1-247-807-31 | CARBON | 100 | 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 |
| R291 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| | | | | | |
| R292 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R295 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R296 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| ***** | | | | | |
| * | 1-666-315-11 | BAL (A) BOARD | ***** | | |
| < CAPACITOR > | | | | | |
| C140 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| < CONNECTOR > | | | | | |
| CNP141 | 1-766-553-11 | PLUG, CONNECTOR 10P | | | |
| CNS107 | 1-770-398-11 | HOUSING, CONNECTOR (PC BOARD) 5P | | | |
| CNS108 | 1-770-397-11 | HOUSING, CONNECTOR (PC BOARD) 4P | | | |
| < LED > | | | | | |
| D140 | 8-719-046-39 | LED SEL5821A-TH15 (MUTING) | | | |
| < IC > | | | | | |
| IC140 | 8-759-962-08 | IC BA6208 | | | |
| < TRANSISTOR > | | | | | |
| Q141 | 8-729-900-36 | TRANSISTOR DTC124ES | | | |
| Q142 | 8-729-900-36 | TRANSISTOR DTC124ES | | | |
| < RESISTOR > | | | | | |
| R140 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R141 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R142 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R143 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |

| Ref. No. | Part No. | Description | Remark | | | |
|-----------------------|--------------|--|--------|-----|-------|--|
| < VARIABLE RESISTOR > | | | | | | |
| RV101 | 1-467-808-11 | ENCODER, ROTARY (FUNCTION) | | | | |
| < SWITCH > | | | | | | |
| S140 | 1-572-184-11 | SWITCH, KEYBOARD (MODE) | ***** | | | |
| * | 1-666-316-11 | BAL (B) BOARD | ***** | | | |
| < RESISTOR > | | | | | | |
| R144 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| < VARIABLE RESISTOR > | | | | | | |
| RV140 | 1-225-480-11 | RES, VAR, CARBON 100K/100K (BALANCE) | ***** | | | |
| * | 1-666-324-11 | CBV BOARD | ***** | | | |
| < CONNECTOR > | | | | | | |
| CNP805 | 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P | | | | |
| CNP806 | 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P | ***** | | | |
| * | 1-666-331-11 | CONNECTOR BOARD | ***** | | | |
| < CONNECTOR > | | | | | | |
| CNS101 | 1-779-976-21 | PIN, CONNECTOR 9P | | | | |
| CNS104 | 1-779-699-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 7P | | | | |
| CNS106 | 1-779-699-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 7P | | | | |
| < RESISTOR > | | | | | | |
| R189 | 1-216-049-91 | METAL CHIP | 1K | 5% | 1/10W | |
| R190 | 1-216-049-91 | METAL CHIP | 1K | 5% | 1/10W | |
| ***** | | | | | | |
| * | A-4398-831-A | DIGITAL BOARD, COMPLETE (V88ES/VA80ES) | | | | |
| * | A-4403-829-A | DIGITAL BOARD, COMPLETE (DA80ES: AUS) | | | | |
| * | A-4403-830-A | DIGITAL BOARD, COMPLETE (DA80ES: US, Canadian) | | | | |
| * | A-4403-831-A | DIGITAL BOARD, COMPLETE (DA80ES: E, PX) | ***** | | | |
| < CAPACITOR > | | | | | | |
| C3101 | 1-126-048-81 | ELECT | 10uF | 20% | 50V | |
| C3102 | 1-126-048-81 | ELECT | 10uF | 20% | 50V | |
| C3103 | 1-110-341-11 | MYLAR | 330PF | 5% | 50V | |
| C3104 | 1-110-341-11 | MYLAR | 330PF | 5% | 50V | |
| C3105 | 1-126-048-81 | ELECT | 10uF | 20% | 50V | |
| C3106 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | |
| C3107 | 1-106-351-00 | MYLAR | 2200PF | 5% | 200V | |
| C3108 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | |
| C3109 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | |
| C3110 | 1-126-009-81 | ELECT | 100uF | 20% | 16V | |

DIGITAL

| Ref. No. | Part No. | Description | | Remark | Ref. No. | Part No. | Description | | Remark |
|----------|--------------|--------------|---------|---------|----------|--------------|--------------|---------|------------|
| C3111 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | 25V | C3337 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% 50V |
| C3112 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3338 | 1-163-085-00 | CERAMIC CHIP | 2PF | 50V |
| C3113 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3339 | 1-126-048-81 | ELECT | 10uF | 20% 50V |
| C3114 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | 25V | C3340 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V |
| C3115 | 1-126-051-11 | ELECT | 47uF | 20% 50V | C3341 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V |
| C3116 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3342 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3117 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V | C3345 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3118 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% 50V | C3346 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3119 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% 50V | C3347 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3120 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3348 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3121 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3351 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3122 | 1-126-009-81 | ELECT | 100uF | 20% 16V | C3352 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3151 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3353 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3152 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3354 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3153 | 1-110-341-11 | MYLAR | 330PF | 5% 50V | C3355 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3154 | 1-110-341-11 | MYLAR | 330PF | 5% 50V | C3401 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3155 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3402 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3156 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3403 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3157 | 1-106-351-00 | MYLAR | 2200PF | 5% 200V | C3404 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3158 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3405 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3159 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3406 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF 50V |
| C3160 | 1-126-009-81 | ELECT | 100uF | 20% 16V | C3407 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3161 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | 25V | C3408 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3162 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3409 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% 50V |
| C3163 | 1-126-048-81 | ELECT | 10uF | 20% 50V | C3410 | 1-130-483-00 | MYLAR | 0.01uF | 5% 50V |
| C3164 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | 25V | C3411 | 1-163-249-11 | CERAMIC CHIP | 82PF | 5% 50V |
| C3166 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3412 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF 50V |
| C3301 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V | C3413 | 1-163-229-11 | CERAMIC CHIP | 12PF | 5% 50V |
| C3302 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3414 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3303 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3415 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3304 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% 50V | C3416 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3305 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% 50V | C3417 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3306 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3418 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3307 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3419 | 1-126-009-81 | ELECT | 100uF | 20% 16V |
| C3308 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3420 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3309 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3421 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3310 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3422 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3311 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3423 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3312 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3424 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3313 | 1-126-009-81 | ELECT | 100uF | 20% 16V | C3425 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3314 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3426 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3315 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% 50V | C3427 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3316 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% 50V | C3428 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% 50V |
| C3320 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% 25V | C3429 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3321 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3430 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3322 | 1-163-248-11 | CERAMIC CHIP | 75PF | 5% 50V | C3431 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3323 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% 50V | C3432 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3324 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3433 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3325 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3434 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3326 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V | C3435 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% 50V |
| C3327 | 1-136-921-11 | FILM | 1uF | 5% 50V | C3436 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3328 | 1-136-921-11 | FILM | 1uF | 5% 50V | C3438 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3330 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3439 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3331 | 1-126-009-81 | ELECT | 100uF | 20% 16V | C3440 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3332 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | C3441 | 1-126-048-81 | ELECT | 10uF | 20% 50V |
| C3333 | 1-126-051-11 | ELECT | 47uF | 20% 50V | C3442 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% 50V |
| C3334 | 1-130-495-00 | MYLAR | 0.1uF | 5% 50V | C3443 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V |
| C3336 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | 50V | | | | | |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|--------------|----------|-------|--------|----------|--------------|--------------|----------|-----|--------|
| C3444 | 1-126-009-81 | ELECT | 100uF | 20% | 16V | C3534 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3447 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3535 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3471 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3472 | 1-130-490-11 | MYLAR | 0.039uF | 5% | 50V | C3536 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3475 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3537 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| | | | | | | C3538 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3476 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3539 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3477 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3540 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C3478 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3479 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | C3541 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3480 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | C3542 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| | | | | | | C3543 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3481 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | C3544 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3482 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3545 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| C3483 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3484 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V | C3546 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C3485 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3547 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| | | | | | | C3548 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3486 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3549 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3487 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3550 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C3488 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3489 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3550 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3490 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V | C3551 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| | | | | | | C3552 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3491 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3553 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3492 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | C3554 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3493 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | | | | | | |
| C3494 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3555 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3495 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | C3556 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| | | | | | | C3557 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3496 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3558 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3497 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3559 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3498 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3499 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3560 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C3500 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3561 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| | | | | | | C3562 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3501 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3563 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3502 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3564 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3503 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | | | | | | |
| C3504 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3565 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C3505 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3566 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| | | | | | | C3567 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3506 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3568 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3507 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | C3569 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3508 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | | | | | | |
| C3509 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3570 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3510 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V | C3571 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| | | | | | | C3572 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V |
| C3511 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V | C3573 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3512 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3574 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3513 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | | | | | | |
| C3514 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3575 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3515 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3576 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| | | | | | | C3577 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3516 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3578 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3517 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | C3579 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3518 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | | | | | | |
| C3519 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V | C3580 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3520 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V | C3581 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| | | | | | | C3582 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3521 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3583 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3522 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3584 | 1-126-048-81 | ELECT | 10uF | 20% | 50V |
| C3525 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | | | | | | |
| C3526 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | C3585 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3527 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | C3586 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| | | | | | | C3587 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3531 | 1-126-049-11 | ELECT | 22uF | 20% | 50V | C3588 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3532 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | C3589 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3533 | 1-110-339-11 | MYLAR | 220PF | 5% | 50V | | | | | | |

DIGITAL

| Ref. No. | Part No. | Description | | | Remark |
|-----------------------|--|-----------------------|--------|-----|--------|
| C3590 | 1-126-009-81 | ELECT | 100uF | 20% | 16V |
| C3591 | 1-126-009-81 | ELECT | 100uF | 20% | 16V |
| C3592 | 1-126-009-81 | ELECT | 100uF | 20% | 16V |
| C3600 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3605 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3606 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3607 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3608 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3609 | 1-126-049-11 | ELECT | 22uF | 20% | 50V |
| C3621 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3622 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3623 | 1-126-009-81 | ELECT | 100uF | 20% | 16V |
| C3625 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C3650 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C3653 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C3656 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C3659 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C3662 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C3665 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| < CONNECTOR > | | | | | |
| * CND35021-564-922-11 | PIN, CONNECTOR (SMALL TYPE) 6P | | | | |
| CND35031-568-946-11 | PIN, CONNECTOR 8P | | | | |
| * CND35041-568-949-11 | PIN, CONNECTOR 11P | | | | |
| CNE34021-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P (DA80ES) | | | | |
| CNE34021-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P (V88ES/VA80ES) | | | | |
| * CNE34031-564-725-11 | PIN, CONNECTOR (SMALL TYPE) 9P | | | | |
| * CNE35011-564-719-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | | |
| CNS35031-569-061-11 | SOCKET, CONNECTOR 11P (V88ES/VA80ES) | | | | |
| * CNS35031-569-306-11 | SOCKET, CONNECTOR (L TYRE) 15P (DA80ES) | | | | |
| < DIODE > | | | | | |
| D3301 | 8-719-016-74 | DIODE | 1SS352 | | |
| D3302 | 8-719-016-74 | DIODE | 1SS352 | | |
| D3303 | 8-719-061-62 | DIODE | KV1851 | | |
| D3401 | 8-719-951-05 | DIODE | KV1560 | | |
| D3402 | 8-719-801-78 | DIODE | 1SS184 | | |
| D3403 | 8-719-801-78 | DIODE | 1SS184 | | |
| D3404 | 8-719-016-74 | DIODE | 1SS352 | | |
| D3407 | 8-719-820-05 | DIODE | 1SS181 | | |
| D3408 | 8-719-016-74 | DIODE | 1SS352 | | |
| D3409 | 8-719-801-78 | DIODE | 1SS184 | | |
| D3501 | 8-719-801-78 | DIODE | 1SS184 | | |
| D3502 | 8-719-801-78 | DIODE | 1SS184 | | |
| < FERRITE BEAD > | | | | | |
| FB401 | 1-410-397-21 | FERRITE BEAD INDUCTOR | | | |
| FB402 | 1-410-397-21 | FERRITE BEAD INDUCTOR | | | |
| FB403 | 1-410-397-21 | FERRITE BEAD INDUCTOR | | | |
| FB404 | 1-410-397-21 | FERRITE BEAD INDUCTOR | | | |
| < FILTER > | | | | | |
| FL3301 | 1-233-866-11 | FILTER, BAND PASS | | | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|
| < IC > | | | |
| IC3101 | 8-759-636-55 | IC M5218AFP | |
| IC3102 | 8-759-636-55 | IC M5218AFP | |
| IC3103 | 8-759-636-55 | IC M5218AFP | |
| IC3104 | 8-759-463-77 | IC CXD8681M-TP | |
| IC3105 | 8-759-711-58 | IC NJM78L05UA | |
| IC3106 | 8-759-045-17 | IC NJM79L05UA | |
| IC3107 | 8-759-242-70 | IC TC7WU04F | |
| IC3108 | 8-759-233-26 | IC TC74HC393AF-TP1 | |
| IC3301 | 8-749-923-05 | IC TORX178 (DIGITAL LD/DVD OPTICAL IN) | |
| IC3302 | 8-749-923-05 | IC TORX178 (DA80ES: DIGITAL TV/DBS OPTICAL IN) (V88ES/VA80ES: DIGITAL TV OPTICAL IN) | |
| IC3303 | 8-749-923-05 | IC TORX178 (DIGITAL CD OPTICAL IN) | |
| IC3304 | 8-749-923-04 | IC TOTX178 (DIGITAL DAT/MD OPTICAL OUT) | |
| IC3305 | 8-759-262-03 | IC MC14577CF | |
| IC3306 | 8-759-636-55 | IC M5218AFP | |
| IC3307 | 8-759-045-17 | IC NJM79L05UA | |
| IC3308 | 8-759-463-68 | IC SN-PM4007A | |
| IC3309 | 8-759-441-94 | IC IDT71256SA20Y-TL | |
| IC3311 | 8-759-326-72 | IC CXD8521M | |
| IC3312 | 8-749-923-05 | IC TORX178 (DIGITAL DAT/MD OPTICAL IN) | |
| IC3313 | 8-759-236-17 | IC TC74HC151AF-TP1 | |
| IC3314 | 8-759-242-70 | IC TC7WU04F | |
| IC3401 | 8-759-370-62 | IC CXD8505BQ | |
| IC3402 | 8-759-370-62 | IC CXD8505BQ | |
| IC3403 | 8-759-370-62 | IC CXD8505BQ | |
| IC3407 | 8-759-233-26 | IC TC74HC393AF-TP1 | |
| IC3408 | 8-759-233-64 | IC TC74HCU04AF | |
| IC3409 | 8-759-250-81 | IC TC5081AP | |
| IC3410 | 8-759-446-37 | IC DSP56009FJ88F | |
| IC3411 | 8-759-436-44 | IC IDT71024S20Y-TL | |
| IC3412 | 8-759-446-40 | IC SSP424023FJ88 | |
| IC3413 | 8-759-488-55 | IC MB90641APF-G-104BND | |
| IC3414 | 8-759-232-65 | IC TC74HC157AF | |
| IC3417 | 8-759-233-64 | IC TC74HCU04AF | |
| IC3425 | 8-759-242-70 | IC TC7WU04F | |
| IC3501 | 8-759-636-55 | IC M5218AFP | |
| IC3502 | 8-759-636-55 | IC M5218AFP | |
| IC3503 | 8-759-636-55 | IC M5218AFP | |
| IC3504 | 8-759-636-55 | IC M5218AFP | |
| IC3505 | 8-759-636-55 | IC M5218AFP | |
| IC3506 | 8-759-636-55 | IC M5218AFP | |
| IC3507 | 8-759-636-55 | IC M5218AFP | |
| IC3508 | 8-759-636-55 | IC M5218AFP | |
| IC3509 | 8-759-636-55 | IC M5218AFP | |
| IC3510 | 8-759-636-55 | IC M5218AFP | |
| IC3511 | 8-759-636-55 | IC M5218AFP | |
| IC3512 | 8-759-636-55 | IC M5218AFP | |
| IC3513 | 8-759-636-55 | IC M5218AFP | |
| IC3514 | 8-759-636-55 | IC M5218AFP | |
| IC3515 | 8-759-636-55 | IC M5218AFP | |
| IC3516 | 8-759-463-71 | IC LC7535M-TP | |
| IC3517 | 8-759-463-71 | IC LC7535M-TP | |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------------|--------|----------|--------------|----------------------------|--------|
| | | < JACK > | | | | | |
| J3301 | 1-770-905-21 | JACK, PIN 1P (LD/DVD COAXIAL) | | Q3307 | 8-729-028-96 | TRANSISTOR RT1N141M-TP-1 | |
| J3302 | 1-779-797-11 | JACK, PIN 1P (LD/DVD AC-3 RF) | | Q3308 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | < CHIP CONDUCTOR > | | Q3309 | 8-729-028-96 | TRANSISTOR RT1N141M-TP-1 | |
| JW3001 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3310 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| JW3002 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3311 | 8-729-028-96 | TRANSISTOR RT1N141M-TP-1 | |
| JW3301 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3312 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| JW3302 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3313 | 8-729-028-96 | TRANSISTOR RT1N141M-TP-1 | |
| JW3303 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3314 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| JW3304 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3401 | 8-729-232-11 | TRANSISTOR 2SK302-GR-TE85L | |
| JW3305 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3402 | 8-729-232-11 | TRANSISTOR 2SK302-GR-TE85L | |
| JW3306 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3403 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| JW3307 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3404 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| JW3308 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3405 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| JW3309 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3406 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| JW3310 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3407 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| JW3311 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3501 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3312 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3502 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3313 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3503 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3314 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3504 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3315 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3505 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3316 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3506 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3317 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3510 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| JW3318 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3511 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3319 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3512 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3320 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3513 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3321 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3514 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3322 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3515 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3323 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3516 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3324 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3517 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3403 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3518 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3404 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3519 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| JW3405 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | Q3520 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| | | < FERRITE BEAD > | | Q3521 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| L3301 | 1-410-391-11 | INDUCTOR CHIP 68uH | | Q3522 | 8-729-107-46 | TRANSISTOR 2SC3624A-L15 | |
| L3401 | 1-426-850-11 | COIL (RF) 0.4uH | | | | < RESISTOR > | |
| L3402 | 1-410-381-11 | INDUCTOR CHIP 10uH | | △R3000 | 1-216-473-11 | METAL OXIDE 56 5% 3W F | |
| L3403 | 1-410-381-11 | INDUCTOR CHIP 10uH | | R3100 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| L3404 | 1-410-381-11 | INDUCTOR CHIP 10uH | | R3101 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| L3405 | 1-410-381-11 | INDUCTOR CHIP 10uH | | R3102 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| L3406 | 1-414-813-21 | MICRO INDUCTOR (CHIP TYPE) | | R3103 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| L3407 | 1-414-813-21 | MICRO INDUCTOR (CHIP TYPE) | | R3104 | 1-216-053-00 | METAL CHIP 1.5K 5% 1/10W | |
| L3408 | 1-414-813-21 | MICRO INDUCTOR (CHIP TYPE) | | R3105 | 1-216-017-00 | METAL GLAZE 47 5% 1/10W | |
| L3409 | 1-500-425-11 | FERRITE BEAD | | R3106 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| L3410 | 1-500-425-11 | FERRITE BEAD | | R3107 | 1-216-053-00 | METAL CHIP 1.5K 5% 1/10W | |
| L3411 | 1-500-425-11 | FERRITE BEAD (DA80ES: US, Canadian) | | R3108 | 1-216-017-00 | METAL GLAZE 47 5% 1/10W | |
| | | < TRANSISTOR > | | R3109 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| Q3301 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | R3110 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| Q3302 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | R3111 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| Q3303 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3112 | 1-216-027-00 | METAL CHIP 120 5% 1/10W | |
| Q3304 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | R3113 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| Q3305 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | | R3114 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| Q3306 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3115 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| | | | | R3116 | 1-216-121-00 | METAL GLAZE 1M 5% 1/10W | |
| | | | | R3117 | 1-216-041-00 | METAL CHIP 470 5% 1/10W | |
| | | | | R3118 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| | | | | R3119 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| | | | | R3120 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |

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

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

DIGITAL

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|----|--------|
| R3121 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |
| R3123 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3124 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3150 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3151 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3152 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3153 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3154 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R3155 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W |
| R3156 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3157 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R3158 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W |
| R3159 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3160 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3161 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3162 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W |
| R3163 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3300 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3301 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3302 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R3303 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3304 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3305 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R3306 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3307 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3308 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3309 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3310 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3311 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3312 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3313 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3314 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R3315 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3316 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3317 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3318 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3319 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R3320 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |
| R3321 | 1-216-024-00 | METAL GLAZE | 91 | 5% | 1/10W |
| R3322 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3323 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3324 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3325 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3326 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R3327 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3328 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3329 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3330 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3331 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R3332 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3333 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3334 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3335 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3336 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3337 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R3338 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3339 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3340 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|----|--------|
| R3341 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3342 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R3343 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3344 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W |
| R3345 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3346 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3347 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3348 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W |
| R3349 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3350 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3351 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W |
| R3352 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3353 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R3354 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3355 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3356 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3357 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3358 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3359 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3360 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3361 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3362 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3363 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3364 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3365 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3366 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3367 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3368 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3369 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3370 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3371 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3372 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3373 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3374 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3375 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3376 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3377 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3378 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3379 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3380 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3381 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3382 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3383 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R3384 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3385 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3386 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3387 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3388 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3389 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3390 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3391 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3392 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3393 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3394 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3395 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3396 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3397 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3398 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|------------------------|------|----|--------|----------|--------------|------------------------|------|----|--------|
| R3399 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3458 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3400 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3460 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3401 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | R3465 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3402 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | R3466 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3403 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | R3479 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3404 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W | R3480 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3405 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3498 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3406 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3499 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3407 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3500 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3408 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3501 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3409 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W | R3502 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3410 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | R3503 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3411 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | R3504 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3412 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | R3505 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3413 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3506 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3414 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3507 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3415 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3508 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3416 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | R3509 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3417 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | R3510 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3418 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | R3511 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3419 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3512 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3420 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3513 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3421 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3514 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3422 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3515 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3423 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3516 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3424 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3517 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3425 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3518 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3426 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3519 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3427 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3520 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3428 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3521 | 1-216-062-00 | METAL CHIP | 3.6K | 5% | 1/10W |
| R3429 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3522 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3430 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3523 | 1-216-054-00 | METAL GLAZE | 1.6K | 5% | 1/10W |
| R3431 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3524 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R3432 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3525 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R3433 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3526 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3434 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3527 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3435 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3528 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3436 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3529 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3437 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3530 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R3438 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3531 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3439 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3532 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3440 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3533 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R3441 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3534 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R3442 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3535 | 1-216-062-00 | METAL CHIP | 3.6K | 5% | 1/10W |
| R3443 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3536 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R3444 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3537 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R3445 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3538 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3446 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | R3539 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3447 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | R3540 | 1-216-054-00 | METAL GLAZE | 1.6K | 5% | 1/10W |
| R3449 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3541 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3450 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3542 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3451 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | | R3543 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3452 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3544 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3453 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3545 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3455 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3546 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3456 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3547 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3457 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | R3548 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| | | | | | | R3549 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |

DIGITAL

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|------------------------|------|----|--------|
| R3550 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3551 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3552 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3553 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3554 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3555 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3556 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3557 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3558 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3559 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3560 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3561 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3562 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3563 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3564 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3565 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3566 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3567 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3568 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3569 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3570 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3571 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3572 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3573 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3574 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3575 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W |
| R3576 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3577 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3578 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3579 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3580 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3581 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R3582 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3583 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R3584 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3585 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3586 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3587 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3588 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3589 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3590 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3591 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3592 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3593 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3594 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R3595 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3596 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3597 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3598 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3599 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3600 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3601 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3602 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3603 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3604 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3605 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3606 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|------------------------|------|----|--------|
| R3607 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3608 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3609 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3610 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3611 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3612 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3613 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3614 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3615 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3616 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3617 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3618 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R3619 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3620 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3621 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3622 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3623 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3626 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3627 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3628 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3629 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R3631 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3632 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3633 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3634 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3635 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3636 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3637 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3638 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3639 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3640 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3641 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R3642 | 1-216-056-00 | METAL GLAZE | 2K | 5% | 1/10W |
| R3650 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3651 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3652 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3653 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3654 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3655 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3656 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3657 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3658 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3659 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3660 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3661 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3662 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3663 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3664 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3665 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3666 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3667 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3668 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3669 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3670 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3671 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R3672 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | | | |
| R3673 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3674 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |

| Ref. No. | Part No. | Description | Remark |
|-----------------------|--------------|--|--------|
| R3675 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W |
| R3676 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| R3677 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W |
| R3678 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| R3679 | 1-216-065-00 | METAL CHIP 4.7K 5% | 1/10W |
| R3680 | 1-216-065-00 | METAL CHIP 4.7K 5% | 1/10W |
| R3681 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W |
| R3682 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| R3683 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W |
| R3684 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| < VARIABLE RESISTOR > | | | |
| RV3301 | 1-241-765-11 | RES, ADJ, CARBON 22K | |
| < RELAY > | | | |
| RY3401 | 1-515-614-11 | RELAY | |
| < VIBRATOR > | | | |
| X3302 | 1-767-434-21 | VIBRATOR, CRYSTAL (18.432MHz) | |
| X3401 | 1-767-359-11 | VIBRATOR, CERAMIC (4MHz) | |
| X3501 | 1-767-576-11 | VIBRATOR, CRYSTAL (12.288MHz) | |
| ***** | | | |
| * | A-4398-778-A | DISPLAY BOARD, COMPLETE (DA80ES: US, Canadian) | |
| * | A-4398-779-A | DISPLAY BOARD, COMPLETE (DA80ES: AUS) | |
| * | A-4398-780-A | DISPLAY BOARD, COMPLETE (DA80ES: E, PX) | |
| * | A-4398-819-A | DISPLAY BOARD, COMPLETE (V88ES/VA80ES) | |
| ***** | | | |
| * | 4-921-941-01 | CUSHION (FL) | |
| * | 4-990-797-01 | HOLDER (FL) | |
| < CAPACITOR > | | | |
| C101 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C102 | 1-126-786-11 | ELECT 47uF 20% | 16V |
| C103 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C104 | 1-163-259-91 | CERAMIC CHIP 220PF 5% | 50V |
| C105 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C108 | 1-126-795-11 | ELECT 10uF 20% | 50V |
| C109 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C110 | 1-126-795-11 | ELECT 10uF 20% | 50V |
| C111 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C112 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C114 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C115 | 1-104-905-11 | CAPACITOR 0.22F | 5.5V |
| C116 | 1-164-232-11 | CERAMIC CHIP 0.01uF | 50V |
| C117 | 1-164-232-11 | CERAMIC CHIP 0.01uF | 50V |
| C119 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C120 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C121 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C122 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C123 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C124 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C125 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C126 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C127 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C128 | 1-126-786-11 | ELECT 47uF 20% | 16V |
| C129 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |

| Ref. No. | Part No. | Description | Remark |
|--------------------------------|--------------|--|--------|
| C130 | 1-124-455-00 | ELECT 100uF 20% | 16V |
| C133 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C142 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| < CONNECTOR > | | | |
| * CND102 | 1-568-949-11 | PIN, CONNECTOR 11P | |
| * CND107 | 1-568-940-21 | PIN, CONNECTOR 2P (DA80ES: US, Canadian) | |
| CNE101 | 1-764-342-11 | PIN, CONNECTOR (PCB) (L TYPE) 5P | |
| CNP107 | 1-568-668-11 | CONNECTOR, BOARD TO BOARD 6P | |
| CNS102 | 1-779-976-21 | PIN, CONNECTOR 9P | |
| * CNS105 | 1-565-486-11 | CONNECTOR, BOARD TO BOARD 10P | |
| < DIODE > | | | |
| D102 | 8-719-313-43 | LED SEL6210S-TH10 (STANDBY) (V88ES/VA80ES) | |
| D106 | 8-719-210-33 | DIODE EC10DS2 | |
| D107 | 8-719-016-74 | DIODE 1SS352 | |
| D108 | 8-719-313-45 | LED SEL6810A-TH10 (INDEX) | |
| D109 | 8-719-313-45 | LED SEL6810A-TH10 (EQ) | |
| D110 | 8-719-313-45 | LED SEL6810A-TH10 (SUR) | |
| D111 | 8-719-064-56 | LED SEC2484C (VIDEO 1) | |
| D112 | 8-719-064-56 | LED SEC2484C (VIDEO 2) | |
| D113 | 8-719-064-56 | LED SEC2484C (VIDEO 3) | |
| D114 | 8-719-064-56 | LED SEC2484C (LD/DVD) | |
| D115 | 8-719-064-56 | LED SEC2484C (DA80ES: TV/DBS) (V88ES/VA80ES: TV) | |
| D116 | 8-719-064-55 | LED SEC1803C (TAPE) | |
| D117 | 8-719-064-55 | LED SEC1803C (DAT/MD) | |
| D118 | 8-719-064-55 | LED SEC1803C (CD) | |
| D119 | 8-719-064-55 | LED SEC1803C (TUNER) | |
| D130 | 8-719-064-55 | LED SEC1803C (PHONO) | |
| < FLUORESCENT INDICATOR TUBE > | | | |
| FL101 | 1-517-671-11 | INDICATOR TUBE, FLUORESCENT | |
| < IC > | | | |
| IC101 | 8-759-075-35 | IC TD62C950RF | |
| IC102 | 8-759-389-51 | IC MSC1164GS-KR1 | |
| IC104 | 8-759-459-84 | IC NJL56H400 | |
| IC105 | 8-759-457-56 | IC MB90673PF-G-206-BND | |
| IC107 | 8-759-823-87 | IC LB1638M | |
| < CHIP CONDUCTOR > | | | |
| JW6 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| JW12 | 1-216-295-00 | CONDUCTOR, CHIP (2012) (DA80ES: US, Canadian) | |
| JW13 | 1-216-295-00 | CONDUCTOR, CHIP (2012) (DA80ES: AUS) | |
| JW14 | 1-216-295-00 | CONDUCTOR, CHIP (2012) (DA80ES: E, PX) | |
| JW17 | 1-216-295-00 | CONDUCTOR, CHIP (2012) (V88ES/VA80ES) | |
| < TRANSISTOR > | | | |
| Q100 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q101 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| Q102 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 (V88ES/VA80ES) | |
| Q103 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 (V88ES/VA80ES) | |
| Q104 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |

DISPLAY

| Ref. No. | Part No. | Description | Remark | | | |
|--------------|--------------|-------------|----------------|----|-------|----------------|
| Q105 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q107 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q109 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q110 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q111 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q112 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q113 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q114 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q115 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q116 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q117 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q118 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q119 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q120 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q121 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q122 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q123 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q124 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q125 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q126 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q127 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | | | |
| < RESISTOR > | | | | | | |
| R102 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R103 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W | |
| R105 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R106 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | (V88ES/VA80ES) |
| R107 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R108 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R116 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R117 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R118 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R119 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R120 | 1-216-306-11 | METAL CHIP | 3.9K | 5% | 1/10W | |
| R121 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R122 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R123 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R124 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R125 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R126 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W | |
| R127 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R128 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R129 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R132 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| △ R133 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W | F |
| R135 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R136 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R137 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R138 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| △ R139 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W | F |
| R140 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R144 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R145 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R147 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R148 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R150 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |

| Ref. No. | Part No. | Description | Remark | | | |
|------------|--------------|-------------------------------------|--------|----|-------|--------------------------------------|
| R151 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R152 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R160 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | (DA80ES: US, Canadian) |
| R169 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R170 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R171 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R172 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R173 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R174 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R175 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R176 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R177 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R178 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R179 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | (DA80ES: US, Canadian) |
| R180 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R181 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R191 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R192 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R193 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | (DA80ES: US, Canadian) |
| R194 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R195 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R196 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R197 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R198 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R199 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| RR11 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| RR12 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| RR13 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | (DA80ES: E, AUS, PX/V88ES/VA80ES) |
| RR14 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | (DA80ES: E, PX/V88ES/VA80ES) |
| RR15 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | (V88ES/VA80ES) |
| RR16 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (V88ES/VA80ES) |
| RR17 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | (V88ES/VA80ES) |
| < SWITCH > | | | | | | |
| S101 | 1-572-184-11 | SWITCH, KEYBOARD (EQUALIZER CH) | | | | |
| S102 | 1-572-184-11 | SWITCH, KEYBOARD (DPC MODE) | | | | |
| S103 | 1-572-184-11 | SWITCH, KEYBOARD (<) | | | | |
| S104 | 1-572-184-11 | SWITCH, KEYBOARD (v) | | | | |
| S105 | 1-572-184-11 | SWITCH, KEYBOARD (^) | | | | |
| S106 | 1-572-184-11 | SWITCH, KEYBOARD (>) | | | | |
| S107 | 1-572-184-11 | SWITCH, KEYBOARD (SET UP) | | | | |
| S108 | 1-572-184-11 | SWITCH, KEYBOARD (OPEN/CLOSE) | | | | |
| S109 | 1-572-184-11 | SWITCH, KEYBOARD (EQUALIZER BAND) | | | | |
| S110 | 1-572-184-11 | SWITCH, KEYBOARD (DA80ES: TUNING +) | | | | (V88ES/VA80ES: EQUALIZER ON/OFF) |
| S111 | 1-572-184-11 | SWITCH, KEYBOARD (DA80ES: TUNING -) | | | | (V88ES/VA80ES: SOUND FIELD STANDARD) |
| S112 | 1-572-184-11 | SWITCH, KEYBOARD (DA80ES: FM MODE) | | | | (V88ES/VA80ES: SLEEP) |
| S113 | 1-572-184-11 | SWITCH, KEYBOARD (DA80ES: MEMORY) | | | | (V88ES/VA80ES: DIMMER) |

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.

DISPLAY
F. VIDEO
HP
INPUT




| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|--------------------------------------|--------|---------|------|
| S114 | 1-572-184-11 | SWITCH, KEYBOARD (DISPLAY) | | | |
| S136 | 1-554-118-00 | SWITCH, PUSH (1 KEY) (POWER) | | | |
| | | (V88ES/VA80ES) | | | |
| S137 | 1-572-184-11 | SWITCH, KEYBOARD (POWER) (DA80ES) | | | |
| | | < VIBRATOR > | | | |
| X100 | 1-767-359-11 | VIBRATOR, CERAMIC (4MHz) | | | |
| ***** | | | | | |
| * | 1-666-305-11 | F.VIDEO BOARD | | | |
| | | ***** | | | |
| | | < CAPACITOR > | | | |
| C299 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| | | < CONNECTOR > | | | |
| CND299 | 1-568-940-21 | PIN, CONNECTOR 2P | | | |
| CNE290 | 1-770-968-11 | PIN, CONNECTOR (PCB) (V TYPE) 8P | | | |
| | | < JACK > | | | |
| J298 | 1-779-689-11 | TERMINAL, S (VIDEO 3 INPUT S-VIDEO) | | | |
| J299 | 1-779-798-11 | JACK, PIN (BLOCK) (L TYPE) 3P | | | |
| | | (VIDEO 3 INPUT AUDIO/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 |
| ***** | | | | | |
| * | 1-666-304-11 | HP BOARD | | | |
| | | ***** | | | |
| | | < CONNECTOR > | | | |
| CNE100 | 1-764-341-11 | PIN, CONNECTOR (PCB) (L TYPE) 4P | | | |
| | | < 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-4398-782-A | INPUT BOARD, COMPLETE (DA80ES) | | | |
| * | A-4398-823-A | INPUT BOARD, COMPLETE (V88ES/VA80ES) | | | |
| | | ***** | | | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | | | |
| | | < CAPACITOR > | | | |
| C001 | 1-126-047-81 | ELECT | 4.7uF | 20% | 50V |
| C002 | 1-110-335-11 | MYLAR | 100PF | 5% | 50V |
| C003 | 1-107-608-11 | CERAMIC | 68PF | 5% | 500V |
| C004 | 1-107-601-11 | CERAMIC | 33PF | 5% | 500V |
| C005 | 1-124-995-11 | ELECT | 220uF | 20% | 10V |
| C014 | 1-102-937-00 | CERAMIC | 4PF | ±0.25PF | 50V |
| C201 | 1-126-047-81 | ELECT | 4.7uF | 20% | 50V |
| C202 | 1-102-106-00 | CERAMIC | 100PF | 10% | 50V |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-----------------|--------|-----|-------------------------------|
| C203 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | |
| C204 | 1-126-008-51 | ELECT 47uF | 20% | 16V | |
| C205 | 1-130-480-00 | MYLAR 0.0056uF | 5% | 50V | |
| C206 | 1-130-473-00 | MYLAR 0.0015uF | 5% | 50V | |
| C207 | 1-126-044-11 | ELECT 1uF | 20% | 50V | |
| C208 | 1-126-008-51 | ELECT 47uF | 20% | 16V | |
| C211 | 1-126-021-11 | ELECT 33uF | 20% | 25V | |
| C217 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C218 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C219 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C220 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C221 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C222 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C224 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C225 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C226 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C227 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C228 | 1-162-286-31 | CERAMIC 220PF | 10% | 50V | |
| C248 | 1-126-023-11 | ELECT 100uF | 20% | 25V | |
| C249 | 1-126-023-11 | ELECT 100uF | 20% | 25V | |
| C251 | 1-126-047-81 | ELECT 4.7uF | 20% | 50V | |
| C252 | 1-102-106-00 | CERAMIC 100PF | 10% | 50V | |
| C253 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | |
| C254 | 1-126-008-51 | ELECT 47uF | 20% | 16V | |
| C255 | 1-130-480-00 | MYLAR 0.0056uF | 5% | 50V | |
| C256 | 1-130-473-00 | MYLAR 0.0015uF | 5% | 50V | |
| C257 | 1-126-044-11 | ELECT 1uF | 20% | 50V | |
| C258 | 1-126-008-51 | ELECT 47uF | 20% | 16V | |
| C261 | 1-126-021-11 | ELECT 33uF | 20% | 25V | |
| C267 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C268 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C269 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C270 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C271 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C272 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C274 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C275 | 1-162-282-31 | CERAMIC 100PF | 10% | 50V | (VA80ES: AEP, UK, G, EE, CIS) |
| C278 | 1-162-286-31 | CERAMIC 220PF | 10% | 50V | |
| C297 | 1-162-294-31 | CERAMIC 0.001uF | 10% | 50V | |
| C516 | 1-126-048-81 | ELECT 10MF | 20% | 50V | |
| C563 | 1-126-048-81 | ELECT 10MF | 20% | 50V | |

INPUT

| Ref. No. | Part No. | Description | | | Remark |
|----------------|--------------|--|--------|---------|--------|
| C601 | 1-126-047-81 | ELECT | 4.7uF | 20% | 50V |
| C602 | 1-110-335-11 | MYLAR | 100PF | 5% | 50V |
| C603 | 1-107-608-11 | CERAMIC | 68PF | 5% | 500V |
| C604 | 1-107-601-11 | CERAMIC | 33PF | 5% | 500V |
| C605 | 1-124-995-11 | ELECT | 220uF | 20% | 10V |
| C614 | 1-102-937-00 | CERAMIC | 4PF | ±0.25PF | 50V |
| C651 | 1-126-047-81 | ELECT | 4.7uF | 20% | 50V |
| C652 | 1-110-335-11 | MYLAR | 100PF | 5% | 50V |
| C653 | 1-107-608-11 | CERAMIC | 68PF | 5% | 500V |
| C654 | 1-107-601-11 | CERAMIC | 33PF | 5% | 500V |
| C655 | 1-124-995-11 | ELECT | 220uF | 20% | 10V |
| C664 | 1-102-937-00 | CERAMIC | 4PF | ±0.25PF | 50V |
| C701 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C702 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| (DA80ES) | | | | | |
| C703 | 1-126-923-11 | ELECT | 220uF | 20% | 10V |
| C704 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C705 | 1-126-063-11 | ELECT | 100uF | 20% | 63V |
| C705 | 1-128-563-11 | ELECT | 100uF | 20% | 100V |
| (V88ES/VA80ES) | | | | | |
| C706 | 1-126-063-11 | ELECT | 100uF | 20% | 63V |
| C706 | 1-128-563-11 | ELECT | 100uF | 20% | 100V |
| (DA80ES) | | | | | |
| C714 | 1-162-193-31 | CERAMIC | 3.3PF | 10% | 50V |
| C751 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C752 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| (DA80ES) | | | | | |
| C753 | 1-126-923-11 | ELECT | 220uF | 20% | 10V |
| C754 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C764 | 1-162-193-31 | CERAMIC | 3.3PF | 10% | 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 |
| C971 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C972 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C975 | 1-126-041-11 | ELECT | 2200uF | 20% | 35V |
| C976 | 1-126-041-11 | ELECT | 2200uF | 20% | 35V |
| C977 | 1-128-547-11 | ELECT | 6800uF | 20% | 16V |
| C978 | 1-126-023-11 | ELECT | 100uF | 20% | 25V |
| C979 | 1-126-023-11 | ELECT | 100uF | 20% | 25V |
| C980 | 1-126-023-11 | ELECT | 100uF | 20% | 25V |
| C983 | 1-126-023-11 | ELECT | 100uF | 20% | 25V |
| < CONNECTOR > | | | | | |
| CNE620 | 1-770-966-11 | PIN, CONNECTOR (PCB) (V TYPE) 6P | | | |
| CNE621 | 1-770-967-11 | PIN, CONNECTOR (PCB) (V TYPE) 7P | | | |
| CNE622 | 1-770-969-11 | PIN, CONNECTOR (PCB) (V TYPE) 9P | | | |
| CNE939 | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P | | | |
| CNP201 | 1-695-091-11 | PIN, CONNECTOR (PC BOARD) 15P (DA80ES) | | | |
| CNP202 | 1-779-799-11 | PIN, CONNECTOR 9P | | | |
| CNP203 | 1-695-088-11 | PIN, CONNECTOR (PC BOARD) 9P | | | |
| CNP204 | 1-695-087-11 | PIN, CONNECTOR (PC BOARD) 7P | | | |
| CNS202 | 1-569-060-11 | SOCKET, CONNECTOR 11P (V88ES/VA80ES) | | | |
| < DIODE > | | | | | |
| D201 | 8-719-987-63 | DIODE 1N4148M | | | |

| Ref. No. | Part No. | Description | Remark | | | |
|--------------------|--------------|---|--------|------|--|--|
| D202 | 8-719-987-63 | DIODE 1N4148M | | | | |
| D908 | 8-719-028-23 | DIODE D3SBA20-4101 | | | | |
| 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 | | | | |
| < EARTH TERMINAL > | | | | | | |
| * EB201 | 1-537-738-21 | TERMINAL, EARTH | | | | |
| < IC > | | | | | | |
| IC001 | 8-749-011-16 | IC STK350-230 | | | | |
| IC201 | 8-759-636-74 | IC M5218AP-22 | | | | |
| IC202 | 8-759-805-13 | IC LC7821 | | | | |
| 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 | | | | |
| IC701 | 8-759-326-52 | IC uPC2581V | | | | |
| IC971 | 8-759-982-15 | IC RC7815FA | | | | |
| IC972 | 8-759-701-89 | IC NJM7915FA | | | | |
| IC973 | 8-759-231-53 | IC TA7805S | | | | |
| IC974 | 8-759-231-53 | IC TA7805S | | | | |
| < JACK > | | | | | | |
| J201 | 1-774-727-11 | JACK, PIN 2P (PHONO IN) | | | | |
| J201 | 1-778-064-11 | JACK, PIN 4P (TUNER IN) (V88ES/VA80ES) | | | | |
| J202 | 1-778-064-11 | JACK, PIN 4P (DAT/MD IN/REC OUT) | | | | |
| J203 | 1-779-493-11 | JACK, PIN 6P (PRE OUT CENTER/WOOFER/REAR/FRONT) | | | | |
| J204 | 1-778-064-11 | JACK, PIN 4P (TAPE IN/REC OUT) | | | | |
| J205 | 1-784-035-11 | JACK, PIN 1P (PRE OUT WOOFER) | | | | |
| J207 | 1-774-727-11 | JACK, PIN 2P (CD IN) | | | | |
| < TRANSISTOR > | | | | | | |
| Q201 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | | | | |
| Q202 | 8-729-900-63 | TRANSISTOR DTA124ES | | | | |
| Q203 | 8-729-119-79 | TRANSISTOR 2SC2785-FEK | | | | |
| Q204 | 8-729-900-36 | TRANSISTOR DTC124ES | | | | |
| Q251 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | | | | |
| < RESISTOR > | | | | | | |
| R001 | 1-259-167-21 | CARBON 1K | 5% | 1/4W | | |
| R002 | 1-259-209-81 | CARBON 56K | 1% | 1/4W | | |
| R003 | 1-259-143-21 | CARBON 100 | 1% | 1/4W | | |
| R004 | 1-249-413-11 | CARBON 470 | 5% | 1/4W | | |
| R014 | 1-259-209-81 | CARBON 56K | 1% | 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 | | |
| (V88ES/VA80ES) | | | | | | |

| | |
|---|---|
| <p>The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|---|

| Ref. No. | Part No. | Description | Remark | | | |
|----------|--------------|--------------------------------------|--------|-----|------|---|
| | | < FUSE > | | | | |
| △F911 | 1-533-919-11 | FUSE, TIME LAG (12A/250V) | | | | |
| △F912 | 1-533-919-11 | FUSE, TIME LAG (12A/250V) | | | | |
| | | < TRANSISTOR > | | | | |
| Q971 | 8-729-140-96 | TRANSISTOR 2SD774-34 | | | | |
| | | < RESISTOR > | | | | |
| △R977 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| △R978 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W | F |
| R979 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| | | < RELAY > | | | | |
| RY902 | 1-515-894-11 | RELAY (DA80ES: US, E, AUS, PX) | | | | |
| RY903 | 1-755-235-11 | RELAY (DA80ES: Canadian) | | | | |
| RY904 | 1-755-235-11 | RELAY (DA80ES: Canadian) | | | | |
| ***** | | | | | | |
| * | 1-666-303-11 | PTB BOARD | | | | |
| | | ***** | | | | |
| | 1-533-293-11 | HOLDER, FUSE | | | | |
| | | < CAPACITOR > | | | | |
| C914 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | |
| | | < CONNECTOR > | | | | |
| CNE932 | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P | | | | |
| CNE951 | 1-770-964-11 | PIN, CONNECTOR (PCB) (V TYPE) 4P | | | | |
| CNE953 | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P | | | | |
| | | < DIODE > | | | | |
| D917 | 8-719-014-66 | DIODE UZP-5.6B | | | | |
| | | < FUSE > | | | | |
| △F913 | 1-532-503-51 | FUSE, TIME LAG (1.6A/250V) | | | | |
| | | (DA80ES: E, AUS ,PX/V88ES/VA80ES) | | | | |
| △F913 | 1-533-614-11 | FUSE, GLASS CYLINDERICAL (1.6A/125V) | | | | |
| | | (DA80ES: US, Canadian) | | | | |
| △F914 | 1-532-503-51 | FUSE, TIME LAG (1.6A/250V) | | | | |
| | | (DA80ES: E, AUS ,PX/V88ES/VA80ES) | | | | |
| △F914 | 1-533-614-11 | FUSE, GLASS CYLINDERICAL (1.6A/125V) | | | | |
| | | (DA80ES: US, Canadian) | | | | |
| △F915 | 1-532-465-51 | FUSE, TIME LAG (3.15A/250V) | | | | |
| | | (DA80ES: E, AUS ,PX/V88ES/VA80ES) | | | | |
| △F915 | 1-533-690-11 | FUSE, GLASS CYLINDERICAL (DIA.5) | | | | |
| | | (3.15A/125V) (DA80ES: US, Canadian) | | | | |
| ***** | | | | | | |
| * | A-4398-773-A | S VIDEO BOARD, COMPLETE | | | | |
| | | (DA80ES: US, Canadian) | | | | |
| * | A-4398-774-A | S VIDEO BOARD, COMPLETE | | | | |
| | | (DA80ES: E, AUS, PX/V88ES/VA80ES) | | | | |
| | | ***** | | | | |
| | | < CAPACITOR > | | | | |
| C805 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V | |
| C809 | 1-164-095-11 | CERAMIC | 0.01uF | 10% | 16V | |

| Ref. No. | Part No. | Description | Remark | | | |
|----------|--------------|--|--------|-----|-----|--|
| C810 | 1-126-960-11 | 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 | 1-126-960-11 | 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 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C827 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C828 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C829 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C833 | 1-126-960-11 | 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 | 1-126-967-11 | ELECT | 47uF | 20% | 16V | |
| C878 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| | | < CONNECTOR > | | | | |
| * CND801 | 1-568-935-11 | PIN, CONNECTOR 8P | | | | |
| * CND803 | 1-568-951-11 | PIN, CONNECTOR 2P (DA80ES: US, Canadian) | | | | |
| CNE807 | 1-770-965-11 | PIN, CONNECTOR (PCB) (V TYPE) 5P | | | | |
| CNS805 | 1-695-093-11 | SOCKET, CONNECTOR 9P | | | | |
| | | < DIODE > | | | | |
| D810 | 8-719-987-63 | DIODE 1N4148M (DA80ES: US, Canadian) | | | | |
| | | < IC > | | | | |
| IC803 | 8-759-061-95 | IC SN761200 | | | | |
| IC804 | 8-759-061-95 | IC SN761200 | | | | |
| | | < JACK/CONNECTOR > | | | | |
| J802 | 1-563-330-11 | JACK (S-LINK) (DA80ES: US, Canadian) | | | | |
| J804 | 1-779-800-11 | TERMINAL, S (MONITOR S VIDEO OUT) | | | | |
| J805 | 1-779-801-11 | CONNECTOR (ROUND TYPE) | | | | |
| | | (DA80ES: TV/DBS S VIDEO IN, LD/DVD S VIDEO IN) | | | | |
| | | (V88ES/VA80ES: TV S VIDEO IN, LD/DVD S VIDEO IN) | | | | |
| J806 | 1-779-801-11 | CONNECTOR (ROUND TYPE) | | | | |
| | | (VIDEO 2 S VIDEO IN/OUT) | | | | |
| J807 | 1-779-801-11 | CONNECTOR (ROUND TYPE) | | | | |
| | | (VIDEO 1 S VIDEO IN/OUT) | | | | |
| | | < 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 | | | | |
| Q820 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | | | | |
| | | (DA80ES: US, Canadian) | | | | |

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.

| S VIDEO | | | | | | SENSOR | | | | | | SP SW | | | | | | SP TM | | | | | | SP TM (A) | | | | | | SP TM (B) | | | | | |
|--|--------------|-------------|------|----|------|---|---|--|-------------|-----|-----|-------------------------------|--------|--|--|--|--|-------|--|--|--|--|--|-----------|--|--|--|--|--|-----------|--|--|--|--|--|
| Ref. No. | Part No. | Description | | | | Remark | Ref. No. | Part No. | Description | | | | Remark | | | | | | | | | | | | | | | | | | | | | | |
| < RESISTOR > | | | | | | | * 1-666-330-11 SP SW BOARD ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R806 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | < CONNECTOR > | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R815 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | CNS107 | 1-568-662-11 | CONNECTOR, BOARD TO BOARD 6P | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R818 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | | | < DIODE > | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R819 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | | | D140 8-719-820-05 DIODE 1SS181 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R820 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | | | < RESISTOR > | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R821 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | | | R182 1-216-037-00 METAL CHIP 330 5% 1/10W (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R823 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | R183 1-216-041-00 METAL CHIP 470 5% 1/10W (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R824 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | R184 1-216-045-00 METAL CHIP 680 5% 1/10W (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R825 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | < SWITCH > | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R827 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | S116 1-572-184-11 SWITCH, KEYBOARD (FM/AM) (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R828 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | S117 1-572-184-11 SWITCH, KEYBOARD (SHIFT) (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R829 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | S118 1-572-184-11 SWITCH, KEYBOARD (PRESET TUNING -) (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R830 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | S119 1-572-184-11 SWITCH, KEYBOARD (PRESET TUNING +) (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R831 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | S135 1-762-268-11 SWITCH, ROTARY (SPEAKERS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R833 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R834 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | * A-4398-793-A SP TM BOARD, COMPLETE (DA80ES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R835 | 1-249-426-11 | CARBON | 68 | 5% | 1/4W | * A-4398-827-A SP TM BOARD, COMPLETE (V88ES/VA80ES) ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R838 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | SP TM (A) BOARD ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R839 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | SP TM (B) BOARD ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R840 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | < CAPACITOR > | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R841 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C007 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | (V88ES/VA80ES) | | | | | | | | | | | | | | | | | | | | | | | |
| R843 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | C009 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | (VA80ES: AEP, UK, G, EE, CIS) | | | | | | | | | | | | | | | | | | | | | | | |
| R844 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | C021 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | | | | | | | | | | | | | | | | | | | | | | | | |
| R845 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | C607 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | (V88ES/VA80ES) | | | | | | | | | | | | | | | | | | | | | | | |
| R847 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C609 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | (VA80ES: AEP, UK, G, EE, CIS) | | | | | | | | | | | | | | | | | | | | | | | |
| R848 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C615 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | (VA80ES: AEP, UK, G, EE, CIS) | | | | | | | | | | | | | | | | | | | | | | | |
| R849 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C621 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | | | | | | | | | | | | | | | | | | | | | | | | |
| R851 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C657 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | (V88ES/VA80ES) | | | | | | | | | | | | | | | | | | | | | | | |
| R854 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | C659 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | (VA80ES: AEP, UK, G, EE, CIS) | | | | | | | | | | | | | | | | | | | | | | | |
| R855 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | C665 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | (VA80ES: AEP, UK, G, EE, CIS) | | | | | | | | | | | | | | | | | | | | | | | |
| R856 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | C671 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | | | | | | | | | | | | | | | | | | | | | | | | |
| R857 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | C707 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | (V88ES/VA80ES) | | | | | | | | | | | | | | | | | | | | | | | |
| R864 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | C709 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | | | | | | | | | | | | | | | | | | | | | | | | |
| R891 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | C721 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | | | | | | | | | | | | | | | | | | | | | | | | |
| (DA80ES: US, Canadian) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R893 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (DA80ES: US, Canadian) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R894 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (DA80ES: US, Canadian) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * 1-666-314-11 SENSOR BOARD ***** | | | | | | | < CONNECTOR > | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| < PHOTO INTERRUPTER > | | | | | | | * CND103 1-568-942-11 PIN, CONNECTOR 4P | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PH101 8-749-011-97 PHOTO INTERUPTER GP1S93 | | | | | | | < PHOTO INTERRUPTER > | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PH102 8-749-011-97 PHOTO INTERUPTER GP1S93 | | | | | | | ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--------------|------------------|------------------|--------------|
| SP TM | SP TM (A) | SP TM (B) | TUNER |
|--------------|------------------|------------------|--------------|

| Ref. No. | Part No. | Description | Remark | | | |
|----------------|--------------|----------------------------------|-------------------------------|----------|------|----------------|
| C757 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | (V88ES/VA80ES) |
| C759 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V | |
| C771 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V | |
| < CONNECTOR > | | | | | | |
| CND621 | 1-779-977-11 | PIN, CONNECTOR 6P | | | | |
| CNE601 | 1-770-963-11 | PIN, CONNECTOR (PCB) (V TYPE) 3P | | | | |
| CNE602 | 1-779-978-11 | PIN, CONNECTOR 3P (DA80ES) | | | | |
| CNS623 | 1-695-092-11 | SOCKET, CONNECTOR 7P | | | | |
| CNV615 | 1-778-145-11 | PIN, CONNECTOR (PC BOARD) 6P | | | | |
| CNV616 | 1-766-897-11 | PIN, CONNECTOR (PC BOARD) 4P | | | | |
| < DIODE > | | | | | | |
| D010 | 8-719-987-63 | DIODE | 1N4148M | | | |
| D601 | 8-719-987-63 | DIODE | 1N4148M | | | |
| D610 | 8-719-987-63 | DIODE | 1N4148M | | | |
| D660 | 8-719-987-63 | DIODE | 1N4148M | | | |
| D710 | 8-719-987-63 | DIODE | 1N4148M | | | |
| < COIL > | | | | | | |
| L001 | 1-411-906-11 | COIL, AIR-CORE | | | | |
| L601 | 1-411-906-11 | COIL, AIR-CORE | | | | |
| L651 | 1-411-906-11 | COIL, AIR-CORE | | | | |
| L701 | 1-411-906-11 | COIL, AIR-CORE | | | | |
| L751 | 1-411-906-11 | COIL, AIR-CORE | | | | |
| < TRANSISTOR > | | | | | | |
| Q008 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | | | |
| Q603 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | | | |
| Q608 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | | | |
| Q653 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | (DA80ES) | | |
| Q658 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | | | |
| Q708 | 8-729-119-79 | TRANSISTOR | 2SC2785-FEK | | | |
| < RESISTOR > | | | | | | |
| △R009 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W | F |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | | |
| △R024 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W | F |
| △R025 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R026 | 1-249-435-11 | CARBON | 33K | 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 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R050 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| | | | (DA80ES) | | | |
| R051 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| | | | (DA80ES) | | | |
| △R052 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| | | | (DA80ES) | | | |
| R233 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | | |
| R234 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | | |
| R245 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | | |
| R246 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | | |

| Ref. No. | Part No. | Description | Remark | | |
|---------------------------------|--------------|------------------------------------|-------------------------------|----|--------|
| R249 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| R608 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| △ R609 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| △ R616 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| R617 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| △ R624 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R625 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R626 | 1-249-435-11 | CARBON | 33K | 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 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R659 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| △ R666 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| | | | (VA80ES: AEP, UK, G, EE, CIS) | | |
| △ R674 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R675 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R676 | 1-249-435-11 | CARBON | 33K | 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 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R709 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R724 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R725 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R726 | 1-249-435-11 | CARBON | 33K | 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 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| △ R759 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R774 | 1-219-153-11 | FUSIBLE | 10 | 5% | 1/4W F |
| △ R775 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R776 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| < RELAY > | | | | | |
| RY001 | 1-515-765-11 | RELAY | | | |
| RY601 | 1-515-765-11 | RELAY | | | |
| RY602 | 1-515-614-11 | RELAY | | | |
| RY651 | 1-515-765-11 | RELAY | | | |
| RY701 | 1-515-765-11 | RELAY | | | |
| < SWITCH > | | | | | |
| S721 | 1-692-196-11 | SWITCH, SLIDE (IMPEDANCE SELECTOR) | | | |
| (DA80ES) | | | | | |
| < TERMINAL > | | | | | |
| TM001 | 1-694-115-11 | TERMINAL BOARD (6P) | | | |
| (CENTER SPEAKER, REAR SPEAKERS) | | | | | |
| TM601 | 1-694-113-11 | TERMINAL BOARD (FRONT SPEAKERS) | | | |
| ***** | | | | | |
| * | 1-666-310-11 | TUNER BOARD (DA80ES) | | | |
| ***** | | | | | |
| < CONNECTOR > | | | | | |
| CNS201 | 1-695-096-11 | SOCKET, CONNECTOR 15P | | | |
| CNS205 | 1-750-747-11 | CONNECTOR, FFC/FPC 15P | | | |

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.

STR-DA80ES/TA-V88ES/TA-VA80ES

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------------|----------------|
| △ 159 | 1-569-008-21 | ADAPTOR, CONVERSION 2P (DA80ES:E ,PX) | |
| 206 | 1-773-001-11 | WIRE (FLAT TYPE) (15 CORE) (DA80ES) | |
| 209 | 1-769-946-11 | WIRE (FLAT TYPE) (11 CORE) | (V88ES/VA80ES) |
| △ CNS901 | 1-251-416-11 | OUTLET, A.C. (DA80ES: AUS) | |
| △ CNS901 | 1-526-794-11 | OUTLET, AC (V88ES/VA80ES: E, MY, SP) | |
| M101 | A-4384-605-A | MOTOR ASSY (DOOR OPEN/CLOSE) | |
| △ T901 | 1-431-388-11 | TRANSFORMER, POWER (DA80ES: E, PX) | |
| △ T901 | 1-431-389-11 | TRANSFORMER, POWER (DA80ES: AUS) | |
| △ T901 | 1-431-391-11 | TRANSFORMER, POWER (DA80ES: US) | |
| △ T901 | 1-431-392-11 | TRANSFORMER, POWER (DA80ES: Canadian) | |
| △ T901 | 1-431-393-11 | TRANSFORMER, POWER (V88ES/VA80ES) | |

HARDWARE LIST

| | | | |
|----|--------------|--------------------------------------|--|
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |
| #2 | 7-685-663-79 | SCREW +BVTP 4X16 TYPE2 N-S | |
| #3 | 7-685-134-19 | SCREW +P 2.6X8 TYPE2 NON-SLIT | |
| #4 | 7-682-645-01 | SCREW +PS 3X4 | |
| #5 | 7-685-881-09 | SCREW +BVTT 4X8 (S) | |
| #6 | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 IT-3 | |
| #7 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 (DA80ES) | |

ACCESSORIES & PACKING MATERIALS

| | | |
|--------------|--|------------------------------------|
| 1-475-134-11 | REMOTE COMMANDER (RM-P501) | |
| 1-501-374-11 | ANTENNA, LOOP (DA80ES) | |
| 1-501-594-11 | ANTENNA (FM) (DA80ES: AUS) | |
| 3-810-765-11 | MANUAL,COMMONNESS INSTRUCTION | (DA80ES: US, Canadian) |
| 3-860-902-11 | MANUAL, INSTRUCTION (ENGLISH) | (DA80ES: US, Canadian, E, PX, AUS) |
| 3-860-902-21 | MANUAL, INSTRUCTION (FRENCH) | (DA80ES: Canadian, E, PX) |
| 3-860-902-31 | MANUAL, INSTRUCTION (SPANISH) | (DA80ES: E, PX) |
| 3-860-972-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH, SWEDISH) | (VA80ES: AEP, UK, G, EE, CIS) |
| 3-860-972-21 | MANUAL, INSTRUCTION (GERMAN, SPANISH, ITALIAN, PORTUGUESE) | (VA80ES:AEP, UK, G, EE, CIS) |
| 3-860-972-41 | MANUAL, INSTRUCTION (ENGLISH, CHINESE) | (VA80ES: E, MY, SP) |
| 3-860-972-51 | MANUAL, INSTRUCTION (ENGLISH, CHINESE) | (V88ES) |
| 4-983-536-01 | COVER, BATTERY (for RM-P501) | |

STR-DA80ES/TA-V88ES/TA-VA80ES

SONY®

SERVICE MANUAL

US Model
Canadian Model

STR-DA80ES

AEP Model

UK Model

TA-VA80ES

E Model

STR-DA80ES/TA-VA80ES

Australian Model

PX Model

STR-DA80ES

Chinese Model

TA-V88ES

SUPPLEMENT-1

File this supplement with the service manual.

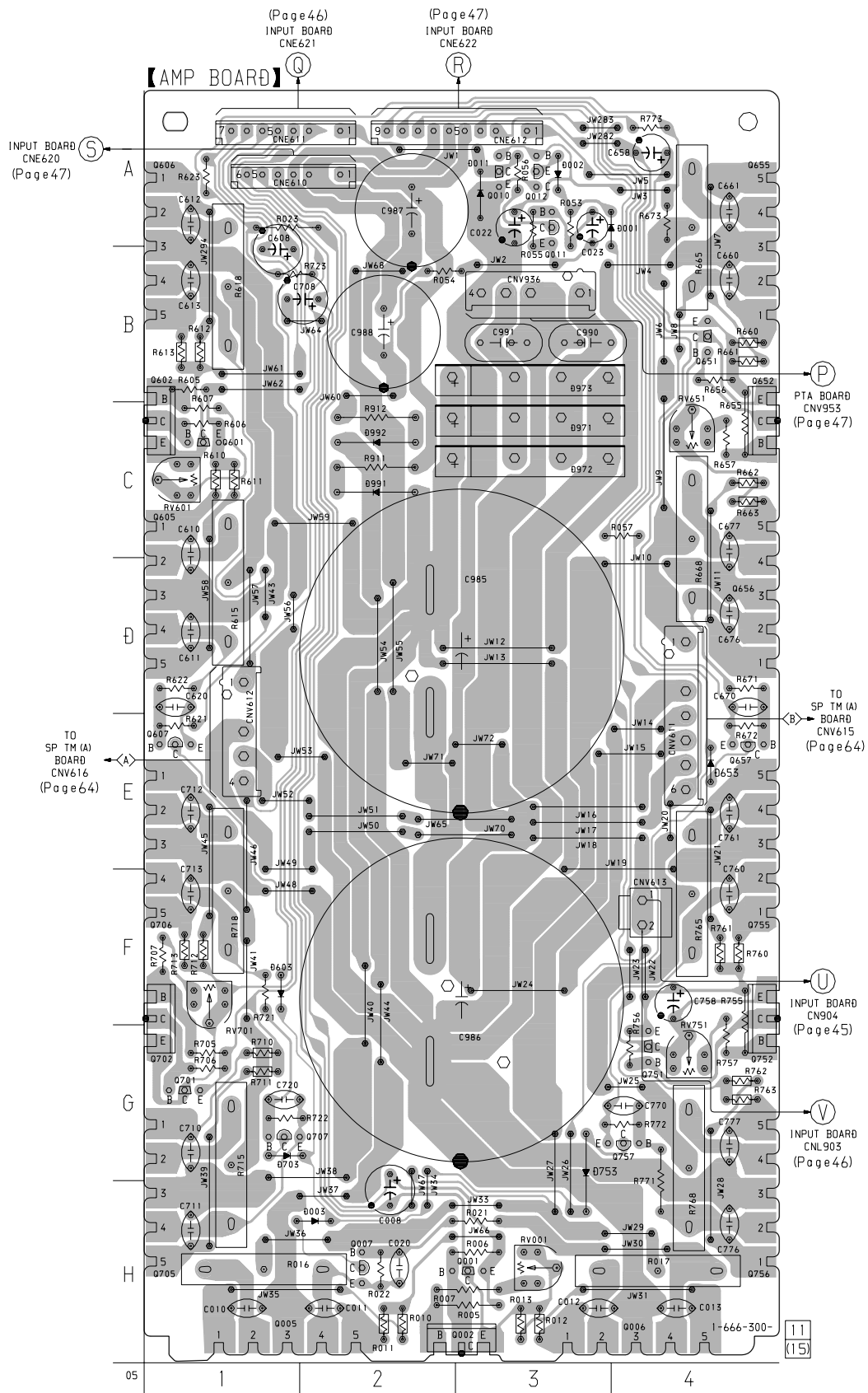
Subject: Change of AMP Board

(SPM-98017)

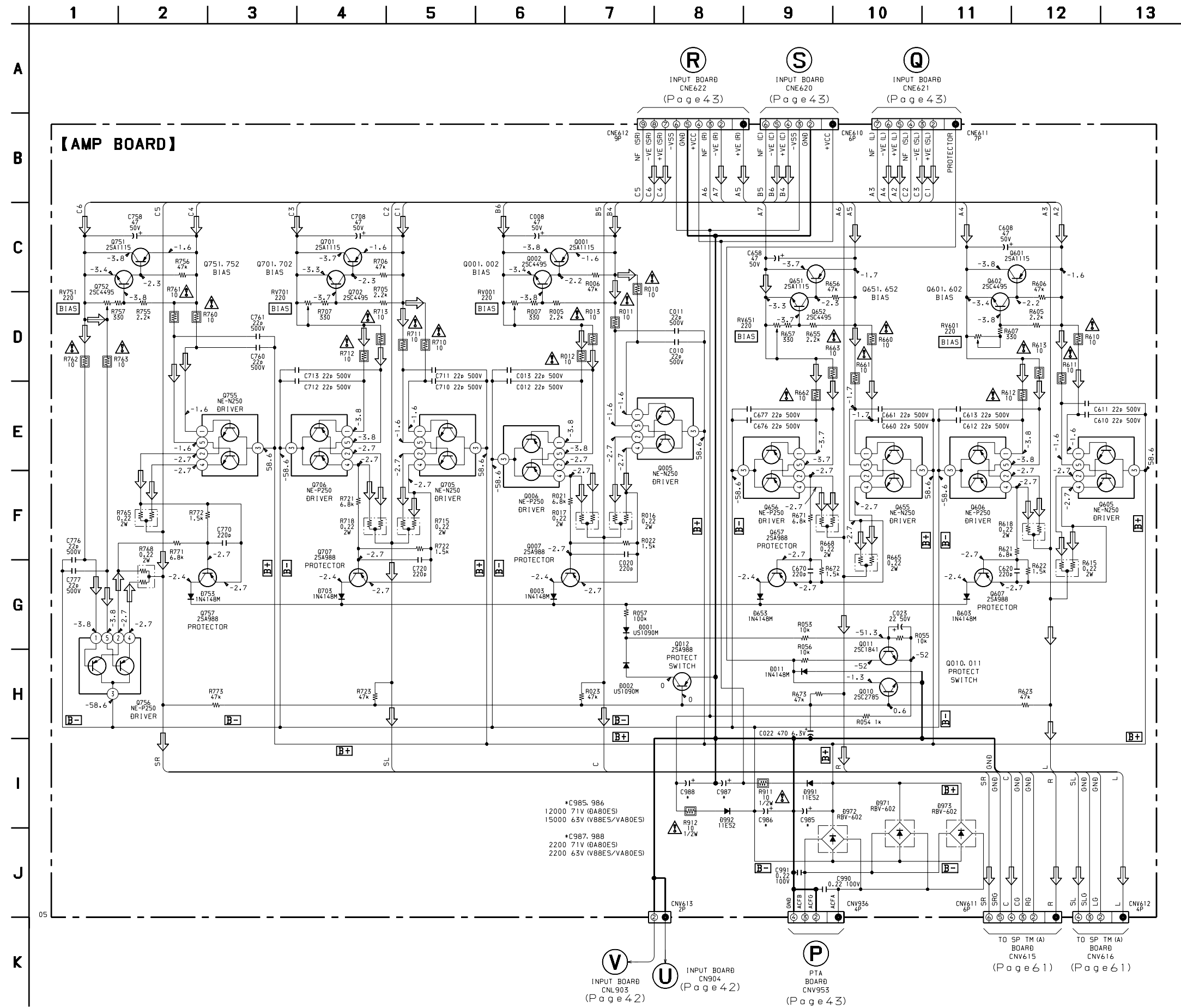
1. PRINTED WIRING BOARD

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D001 | A-4 |
| D002 | A-3 |
| D003 | H-2 |
| D011 | A-3 |
| D603 | F-1 |
| D653 | E-4 |
| D703 | G-1 |
| D753 | G-3 |
| D771 | C-3 |
| D972 | C-3 |
| D973 | B-3 |
| D991 | C-2 |
| D992 | C-2 |
| Q001 | H-3 |
| Q002 | H-3 |
| Q005 | H-1 |
| Q006 | H-4 |
| Q007 | H-2 |
| Q010 | A-3 |
| Q011 | A-3 |
| Q012 | A-3 |
| Q601 | C-1 |
| Q602 | C-1 |
| Q605 | C-1 |
| Q606 | A-1 |
| Q607 | E-1 |
| Q651 | B-4 |
| Q652 | C-4 |
| Q655 | A-4 |
| Q656 | D-4 |
| Q657 | E-4 |
| Q701 | G-1 |
| Q702 | G-1 |
| Q705 | H-1 |
| Q706 | F-1 |
| Q707 | G-1 |
| Q751 | G-4 |
| Q752 | G-4 |
| Q755 | F-4 |
| Q756 | H-4 |
| Q757 | G-4 |



2. SCHEMATIC DIAGRAM



AMP

AMP

3. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
DA80ES: STR-DA80ES V88ES: TA-V88ES VA80ES: TA-VA80ES
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

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

| Ref. No. | Part No. | Description | Remark | | | |
|----------|--------------|------------------------------------|---------|-----|------|----------|
| * | A-4403-068-A | AMP BOARD, COMPLETE (DA80ES) | | | | |
| * | A-4403-069-A | AMP BOARD, COMPLETE (V88ES/VA80ES) | | | | |
| | | ***** | | | | |
| | 4-992-924-01 | SPACER (49) | | | | |
| | | < CAPACITOR > | | | | |
| C008 | 1-126-051-11 | ELECT | 47uF | 20% | 50V | |
| 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 | 1-102-110-00 | FILM | 220PF | 10% | 50V | |
| C022 | 1-126-935-11 | ELECT | 470uF | 20% | 6.3V | |
| C023 | 1-126-965-11 | ELECT | 22uF | 20% | 50V | |
| C608 | 1-126-051-11 | ELECT | 47uF | 20% | 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 | 1-102-110-00 | FILM | 220PF | 10% | 50V | |
| C658 | 1-126-051-11 | ELECT | 47uF | 20% | 50V | |
| C660 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C661 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C670 | 1-102-110-00 | FILM | 220PF | 10% | 50V | |
| C676 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C677 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C708 | 1-126-051-11 | ELECT | 47uF | 20% | 50V | |
| C710 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C711 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C712 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C713 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C720 | 1-102-110-00 | FILM | 220PF | 10% | 50V | |
| C758 | 1-126-051-11 | ELECT | 47uF | 20% | 50V | |
| C760 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C761 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C770 | 1-102-110-00 | FILM | 220PF | 10% | 50V | |
| C776 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C777 | 1-107-597-11 | CERAMIC | 22PF | 10% | 500V | |
| C985 | 1-117-858-11 | ELECT | 12000uF | 20% | 71V | (DA80ES) |

| Ref. No. | Part No. | Description | Remark | | | |
|----------|----------|---------------|----------------------------------|-------------|-----|--------------------|
| | C985 | 1-125-768-11 | ELECT | 15000uF | 20% | 63V (V88ES/VA80ES) |
| | C986 | 1-117-858-11 | ELECT | 12000uF | 20% | 71V (DA80ES) |
| | C986 | 1-125-768-11 | ELECT | 15000uF | 20% | 63V (V88ES/VA80ES) |
| | C987 | 1-115-568-21 | ELECT | 2200uF | 20% | 71V (DA80ES) |
| | C987 | 1-113-686-21 | ELECT | 2200uF | 20% | 63V (V88ES/VA80ES) |
| | C988 | 1-115-568-21 | ELECT | 2200uF | 20% | 71V (DA80ES) |
| | C988 | 1-113-686-21 | ELECT | 2200uF | 20% | 63V (V88ES/VA80ES) |
| | C990 | 1-106-228-00 | MYLAR | 0.22uF | 5% | 100V |
| | C991 | 1-106-228-00 | MYLAR | 0.22uF | 5% | 100V |
| | | < CONNECTOR > | | | | |
| | CNE610 | 1-770-966-11 | PIN, CONNECTOR (PCB) (V TYPE) 6P | | | |
| | CNE611 | 1-770-967-11 | PIN, CONNECTOR (PCB) (V TYPE) 7P | | | |
| | CNE612 | 1-784-997-11 | PIN, CONNECTOR 9P | | | |
| | 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 | | | |
| | | < DIODE > | | | | |
| | D001 | 8-719-815-85 | DIODE | 1S1585 | | |
| | D002 | 8-719-815-85 | DIODE | 1S1585 | | |
| | D003 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D011 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D603 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D653 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D703 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D753 | 8-719-911-19 | DIODE | 1SS119-25 | | |
| | D971 | 8-719-302-37 | DIODE | RBV-602 | | |
| | D972 | 8-719-302-37 | DIODE | RBV-602 | | |
| | D973 | 8-719-302-37 | DIODE | RBV-602 | | |
| | D991 | 8-719-024-99 | DIODE | 11ES2-NTA2B | | |
| | D992 | 8-719-024-99 | DIODE | 11ES2-NTA2B | | |

| Ref. No. | Part No. | Description | Remark | | | |
|------------------|--------------|------------------------|----------------|----|------|---|
| | | < TRANSISTOR > | | | | |
| Q001 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | | | |
| Q002 | 8-729-026-08 | TRANSISTOR | 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR | 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR | 2SC4495 | | | |
| 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 | 8-729-026-08 | TRANSISTOR | 2SC4495 | | | |
| Q705 | 8-749-010-43 | IC | NE-N250 | | | |
| Q706 | 8-749-010-42 | IC | NE-P250 | | | |
| Q707 | 8-729-140-82 | TRANSISTOR | 2SA988-PAFAEA | | | |
| Q751 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | | | |
| Q752 | 8-729-026-08 | TRANSISTOR | 2SC4495 | | | |
| Q755 | 8-749-010-43 | IC | NE-N250 | | | |
| Q756 | 8-749-010-42 | IC | NE-P250 | | | |
| Q757 | 8-729-140-82 | TRANSISTOR | 2SA988-PAFAEA | | | |
| | | < RESISTOR > | | | | |
| R005 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R006 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R007 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| \triangle R010 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R011 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R012 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R013 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R016 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R017 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R021 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R022 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R023 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R053 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R054 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R055 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R056 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R057 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R605 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R606 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R607 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| \triangle R610 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R611 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R612 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R613 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R615 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R618 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |

| Ref. No. | Part No. | Description | Remark | | | |
|------------------|--------------|--|--------|----|--|---|
| R621 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R622 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R623 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R655 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R656 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R657 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| \triangle R660 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R661 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R662 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R663 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R665 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R668 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R671 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R672 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R673 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R705 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R706 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R707 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| \triangle R710 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R711 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R712 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R713 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R715 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R718 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R721 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R722 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R723 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R755 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R756 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R757 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| \triangle R760 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R761 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R762 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| \triangle R763 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R765 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R768 | 1-233-352-41 | ENCAPSULATED COMPONENT | | | | |
| R771 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R772 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R773 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| \triangle R911 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W | F |
| \triangle R912 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W | F |
| | | < VARIABLE RESISTOR > | | | | |
| RV001 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | | |
| RV601 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | | |
| RV651 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | | |
| RV701 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | | |
| RV751 | 1-241-660-21 | RES, ADJ, CARBON 220 | | | | |
| ***** | | | | | | |
| | | The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified. | | | Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. | |