

HST-A10

SERVICE MANUAL

*E Model
Australian Model*



- HST-A10 is the STEREO DECK RECEIVER in LBT-A10

SPECIFICATIONS

Tuner

System FM stereo
FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 to 108 MHz
Antenna 75 ohms unbalanced
300 ohms balanced

Intermediate frequency 10.7 MHz

AM tuning section (for Medeastern model)

Tuning range SW: 5.95 to 17.90 MHz
MW: 531 to 1,602 kHz

AM tuning section (model for other countries)

Tuning range 531 to 1,602 kHz (at 9 kHz step)
530 to 1,710 kHz (at 10 kHz step)

Antenna AM loop antenna
External antenna terminal

Intermediate frequency 450 kHz

Amplifier

Peak music power output 400 W (6 ohms, 4 speakers driven)

Continuous RMS power output 28 W + 28 W (6 ohms, at 1 kHz, 5% THD)

| Input | Jack type | Sensitivity | Impedance |
|----------|-----------|-------------|-----------|
| CD IN | Phono | 300 mV | 47 kohms |
| VIDEO IN | Phono | 300 mV | 47 kohms |
| PHONO IN | Phono | 3 mV | 47 kohms |
| MIC | Phone | 1 mV | 10 kohms |

| | |
|------------------------------------|--------------|
| Model Name Using Similar Mechanism | HST-D105 |
| Tape Transport Mechanism Type | TCM-180VW-H7 |

| Output | Jack type | Impedance |
|------------------|--------------|--------------------------------------|
| SURROUND SPEAKER | Phono | Accepts speakers of 8 – 16 ohms |
| HEADPHONES | Stereo phone | Accepts headphones of 8 ohms or more |

Frequency response CD: 15 Hz to 50 kHz ± 0 dB -3 dB

Cassette deck

Recording system 4-track 2-channel stereo
Frequency response With Type II cassette (Sony UX-S)
40 Hz to 14 kHz (± 3 dB)
With Type I cassette (Sony HF-S)
40 Hz to 13 kHz (± 3 dB)

Wow and flutter 0.1% (WRMS)


General

Power requirements 110 – 120 V/220 – 240 V AC, adjustable with the VOLTAGE SELECTOR, 50/60 Hz

Power consumption 75 W

Weight Approx. 6.9 kg

Dimensions Approx. 355 × 290 × 325 mm (w/h/d, including projections)



Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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COMPACT Hi-Fi STEREO SYSTEM
SONY®

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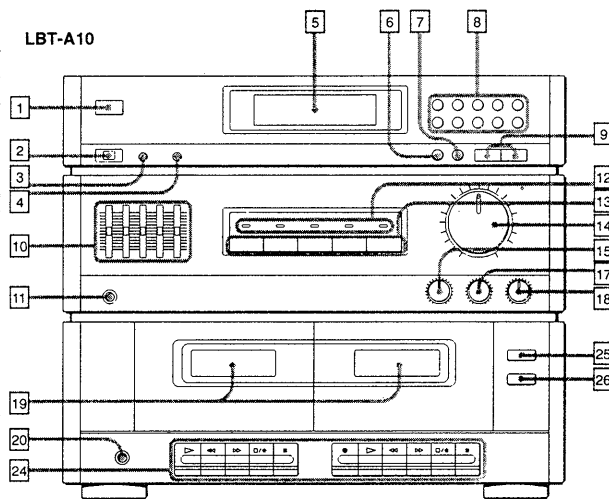
SAFETY-RELATED COMPONENT WARNING!!

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

This section is extracted from instruction manual.

Location of Controls

Refer to the pages indicated in () for details.



Tuner

- 1 POWER switch (12)
- 2 Remote sensor
- 3 MEMORY button (20)
- 4 ST/MUTE button (18)
- 5 Display window
- 6 SHIFT button (20)
- 7 BAND SELECT button (18)
- 8 Buttons for storing station frequencies (20)
- 9 DUAL MODE TUNING buttons (18, 20, 22)

Amplifier

- 10 GRAPHIC EQUALIZER controls (14)
- 11 HEADPHONES jack
- 12 Function indicators
- 13 Function selectors (VIDEO/TAPE/CD/TUNER/PHONO)
- 14 VOLUME control (14)
- 15 SURROUND control (14)
- 16 DBFB (dynamic bass feedback) control (14)
- 17 BALANCE control (14)

Cassette Deck

- 19 Cassette holders
- 20 MIC jack (32)*
- 21 Tape operation buttons (24)
 - ◀◀ Leftward fast winding
 - ▶▶ Rightward fast winding
 - ▶ Forward play
 - ▲ Stop/eject
 - || PAUSE/Pause
 - REC/Record
- 28 TAPE SELECT button (24, 26, 30)
- 29 DUBBING SPEED button (30)

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

- Clean the following parts with a denatured alcohol-moistened swab:

| | |
|-----------------------|---------------|
| record/playback heads | pinch rollers |
| erase heads | rubber belts |
| capstan | idlers |
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

| Torque | Torque meter | Meter reading |
|---------------------|--------------|---------------------------------------|
| FWD | CQ-102C | 30--70g·cm (0.42--0.97oz·inch) |
| FWD Back tension | CQ-102C | 1.5--5.5g·cm (0.020--0.076oz·inch) |
| FF. REW | CQ-201B | 63g·cm or more (0.87oz·inch) |

2-2. ELECTRICAL ADJUSTMENTS

0dB = 0.775V (AF)
0dB = 0.1μV (RF)

CASSETTE DECK SECTION

- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF
TAPE SELECT switch: TYPE I

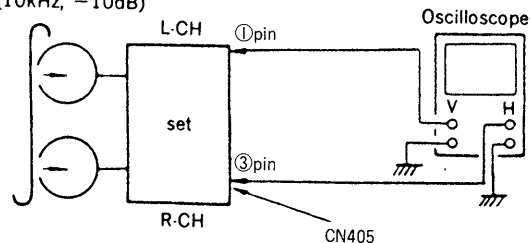
| Type | Signal | Used for |
|----------|--------------|-----------------------|
| P-4-A100 | 10kHz, -10dB | Azimuth Adjustment |
| P-4-L300 | 315Hz, 0dB | PB Level Adjustment |
| WS-48B | 3kHz, 0dB | Tape Speed Adjustment |

Record/Playback Head Azimuth Adjustment

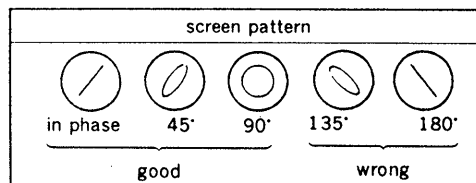
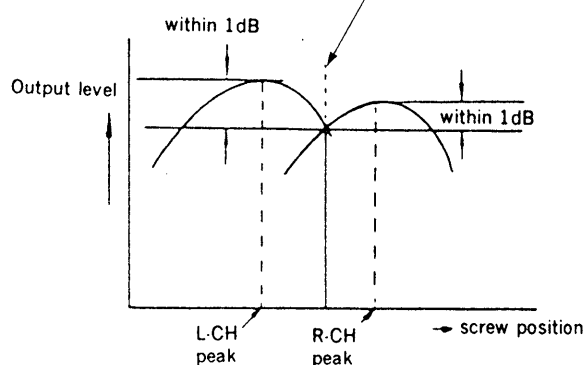
Note: Perform this adjustments for both decks.

Procedure:

- Mode: FWD playback
test tape
P-4-A100
(10kHz, -10dB)

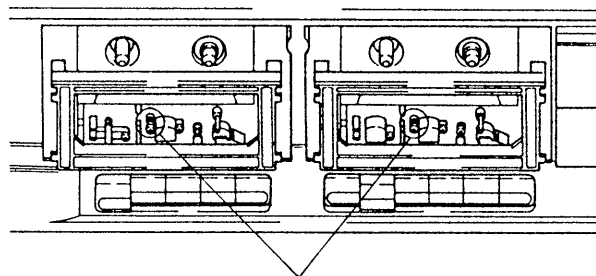


- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:

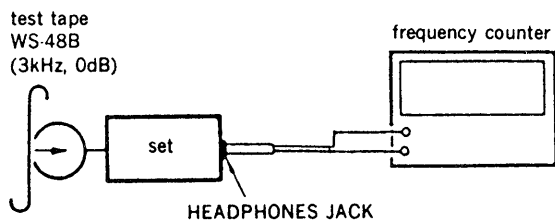


Adjustment screw
REC/PB head (deck B)
or PB head (deck A)

Tape Speed Adjustment

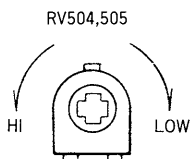
Procedure :

Mode : playback



- High speed adjustment
 1. Short pin CN407. Then at HIGH speed mode.
 2. Adjust RV504 so that the frequency counter reads 6000 ± 20 Hz.
(Must be first Adjustment B deck)
- NORMAL speed adjustment
 1. Remove the short pin from CN407. Then at NORMAL speed mode.
 2. Adjust RV505 so that the frequency counter reads 3000 ± 10 Hz.

Adjustment Location: TC MAIN board

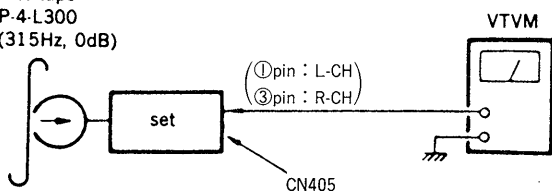


Playback Level Adjustment

Procedure :

Mode : FWD playback

test tape
P-4-L300
(315Hz, 0dB)



DECK-A side RV400(L-CH), RV500(R-CH)
DECK-B side RV401(L-CH), RV501(R-CH)
so that the limits below are satisfied.

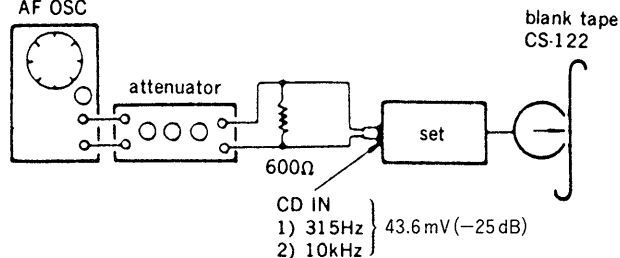
Adjustable limits :

CN405 level: $461.6 - 411.4$ mV ($-4.5 - -5.5$ dB)
level difference between the channels : within 1.0dB
(See page 6 for Adjustment Location)

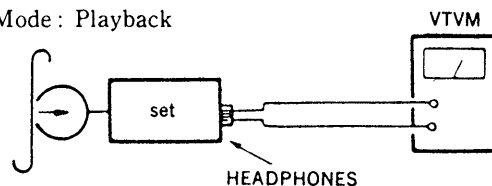
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : Playback



- (1) Supply a 43.6mV (-25 dB) signal (315 Hz) from the CD IN. Adjust the VOLUME control so that a 24.5mV (-30 dB) signal is output to the headphones terminal.
- (2) Insert alignment tape CS-122 into deck B and put the set into the REC mode.
- (3) Adjust the signal frequency to 10kHz.
- (4) Put the set into the PB mode and adjust RV403(L CH) and RV503(R CH) in the REC mode so that the level difference between 315Hz and 10kHz is within 0 ± 0.5 dB.
- (5) Repeatedly put the set into the REC and PB modes two to four times and adjust the bias.

Adjustable limits :

The HEADPHONES level of 10kHz signal relative to that of 315Hz: $0\text{dB} \pm 0.5\text{dB}$

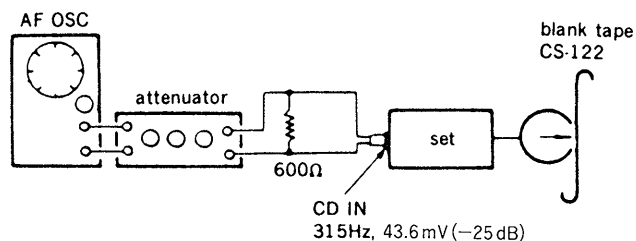
Record Level Adjustment

Setting :

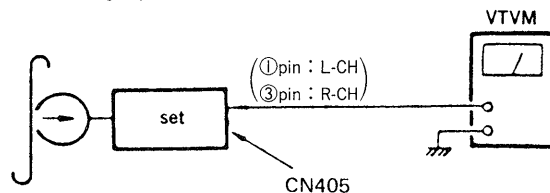
TAPE SELECT : TYPE I

Procedure :

1. Mode : record



2. Mode : playback



- (1) Supply a 43.6mV (−25dB) signal (315Hz) from the CD terminal.
- (2) Insert alignment tape CS-122 into deck B and record the signal. Then playback the recorded portion of the tape and adjust RV402(L-CH) and RV502(R-CH) so that the 43.6mV (−25dB) signal output is obtained at CN405 terminal.

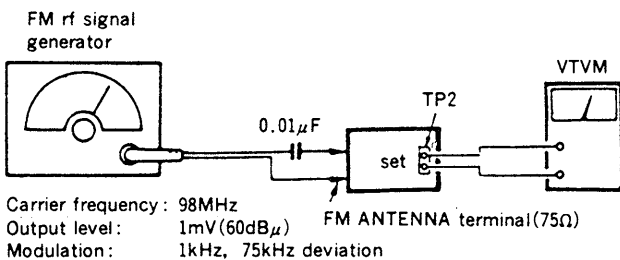
Adjustable limits :

CN405 level : 46.2 — 41.1mV (−24.5 — −25.5dB)

TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

FM NULL Adjustment

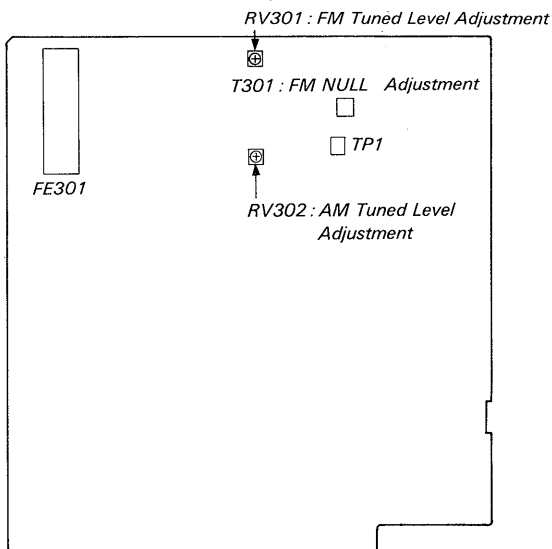


Procedure :

1. Tune the set to 98 MHz.
2. Adjust T301 for 0V reading on the VTVM.

Adjustment Location :

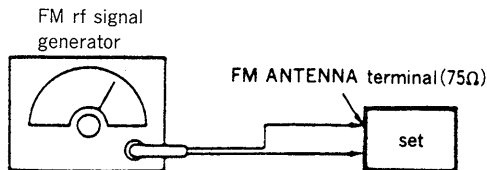
MAIN BOARD (Component side)



FM Tuned Level Adjustment

Setting:

STEREO/MUTE : OFF

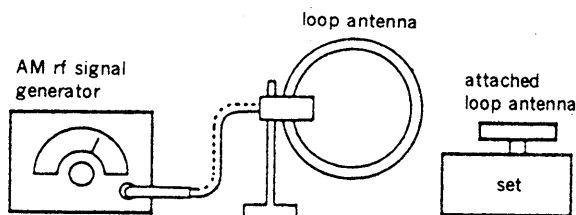


Carrier frequency: 98MHz
Output level: 0.018mV(25dBμ)
Modulation: 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



Carrier frequency: 999kHz
Modulation: 400Hz, 30% modulation

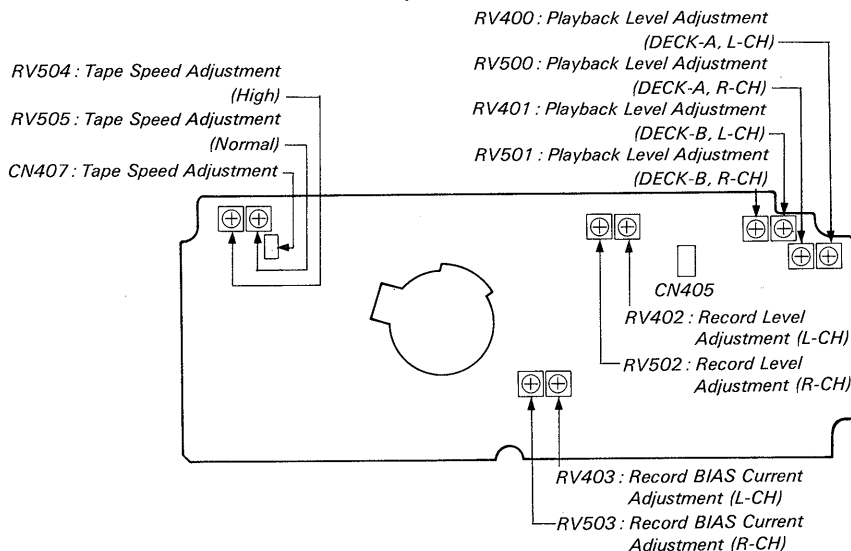
AM Tuned Level Adjustment

• AM BAND

1. Set loop antenna input level to 2.5mV (50 dBμ/m) and no signal tuned light should not on.
2. Tune the set to 999kHz.
3. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

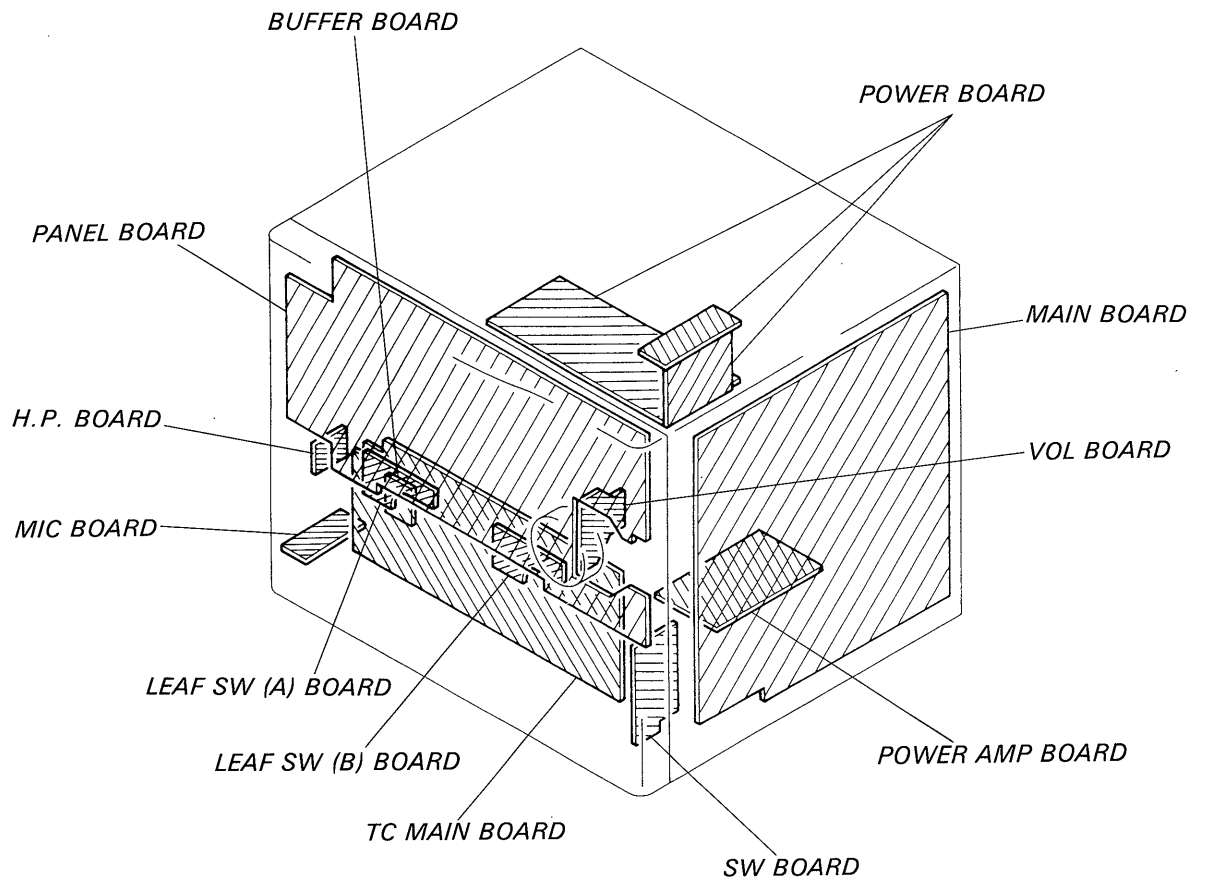
Adjustment Location :

TC MAIN BOARD (Component side)



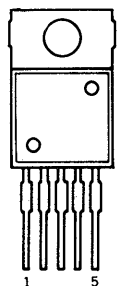
SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

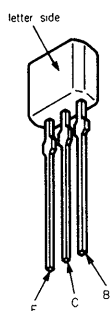


3-2. SEMICONDUCTOR LEAD LAYOUTS.

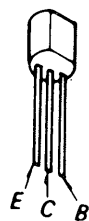
L78MR06



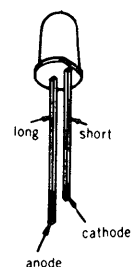
2SA1175-HFE
2SC2785-HFE



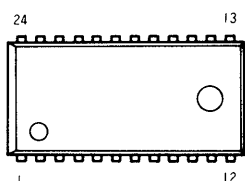
2SC3112-B
2SC945-P



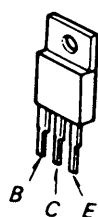
SEL1210S



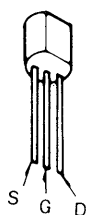
LC7218



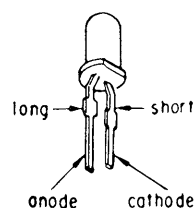
2SB1094-LK
2SC1815-Y
2SD2012



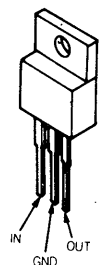
2SK246-GR3



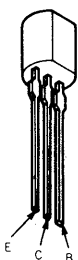
SEL2210S-D



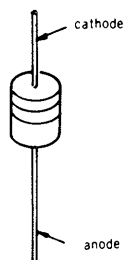
M5F7807L
M5F7907L
TA7812S



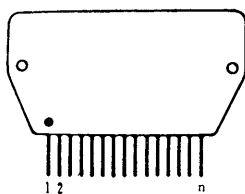
2SC1841-PAFAEA



11ES2
1N4148M
UZ-3.9BSB
UZL-12M3
UZL-33L
UZP-5.6B

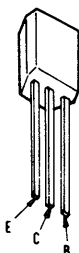


STK4122MK2

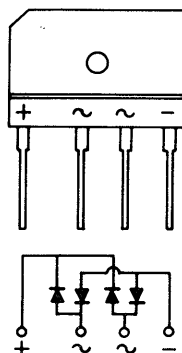


(Making side View)

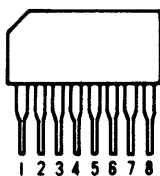
2SC2669-OY
2SC3622A-LK
DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



PBA-402



μ PC1237HA



3-3. PRINTED WIRING BOARDS—AUDIO Section—

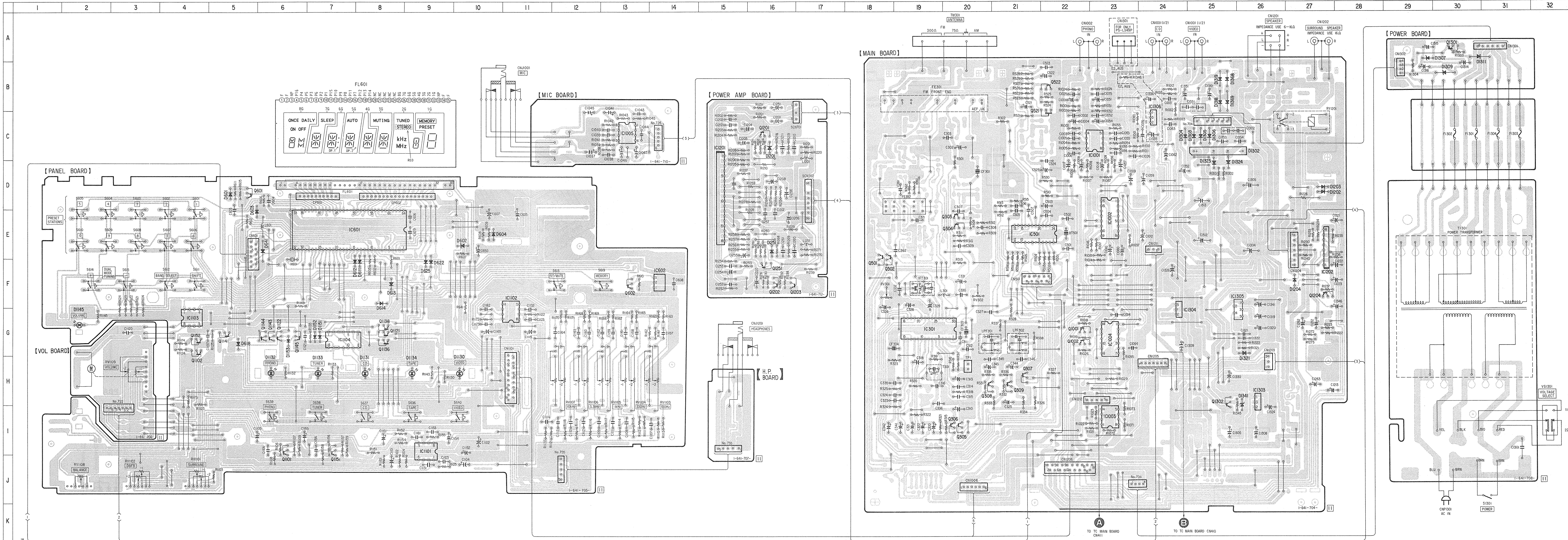
- See page 8 for semiconductor lead layouts.
- See page 7 for circuit boards location.

• Semiconductor Location

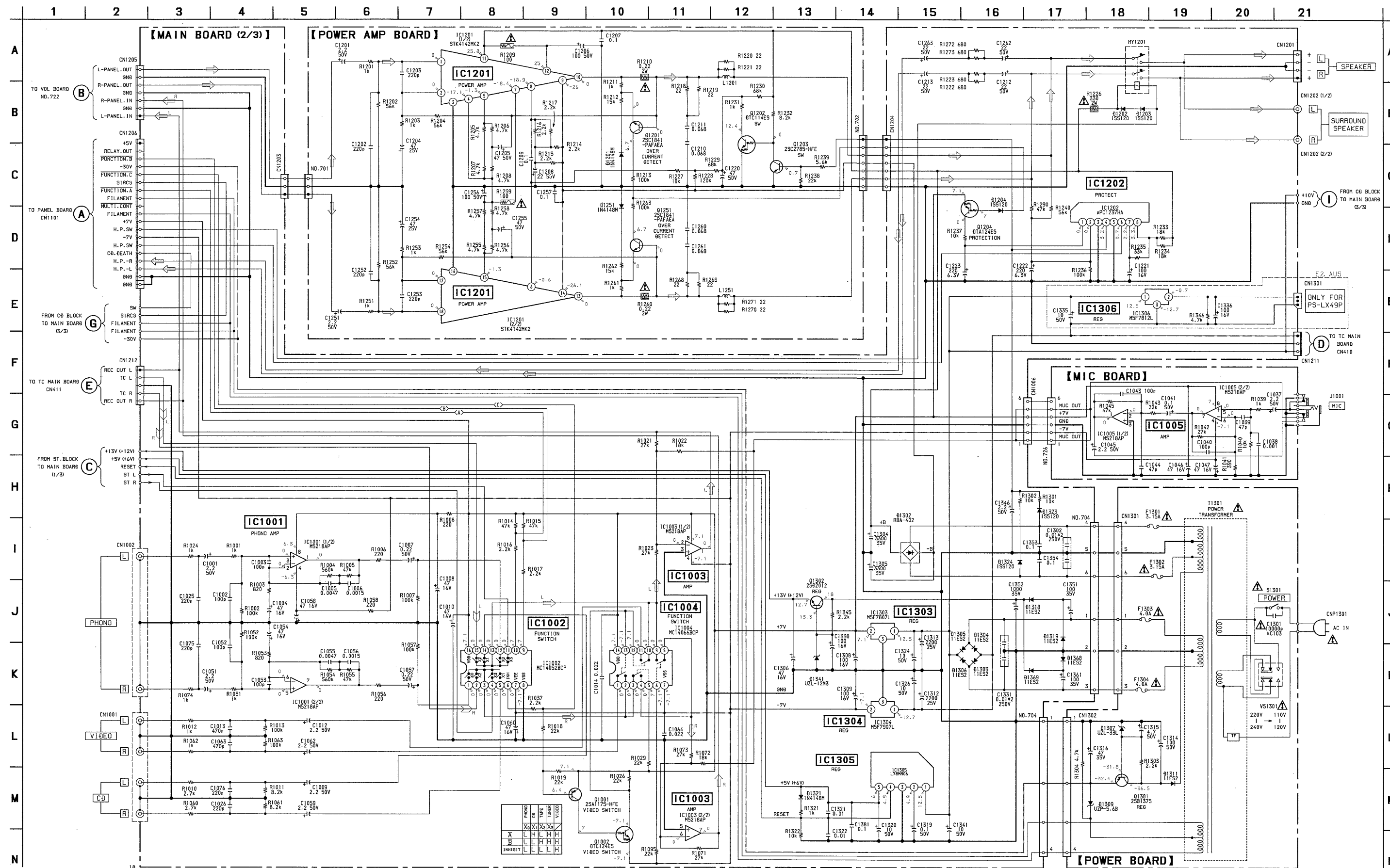
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D601 | D-5 | IC1003 | I-23 |
| D602 | E-10 | IC1004 | G-23 |
| D603 | D-5 | IC1005 | C-13 |
| D604 | E-10 | IC1101 | I-9 |
| D611 | F-8 | IC1102 | F-11 |
| D612 | F-8 | IC1103 | G-4 |
| D613 | F-8 | IC1104 | G-7 |
| D614 | F-8 | IC1201 | C-15 |
| D618 | G-5 | IC1202 | F-27 |
| D622 | F-9 | IC1303 | H-26 |
| D625 | F-9 | IC1304 | G-24 |
| D641 | E-9 | IC1305 | F-26 |
| D1130 | H-10 | IC1306 | B-24 |
| D1131 | H-8 | | |
| D1132 | H-6 | Q303 | D-20 |
| D1133 | H-7 | Q304 | E-20 |
| D1134 | H-9 | Q305 | I-20 |
| D1145 | G-2 | Q306 | I-20 |
| D1151 | G-7 | Q307 | H-21 |
| D1152 | G-7 | Q308 | H-20 |
| D1153 | G-6 | Q309 | H-21 |
| D1201 | C-16 | Q501 | F-18 |
| D1202 | D-27 | Q502 | F-18 |
| D1203 | D-27 | Q521 | B-21 |
| D1204 | F-27 | Q522 | B-22 |
| D1251 | E-16 | Q601 | D-5 |
| D1302 | C-26 | Q602 | F-13 |
| D1303 | C-25 | Q1001 | I-6 |
| D1304 | C-24 | Q1002 | G-22 |
| D1305 | C-25 | Q1101 | I-6 |
| D1306 | C-25 | Q1102 | H-4 |
| D1307 | A-30 | Q1121 | G-8 |
| D1309 | B-30 | Q1122 | G-6 |
| D1311 | A-30 | Q1136 | G-8 |
| D1318 | B-25 | Q1138 | G-8 |
| D1319 | B-25 | Q1141 | G-5 |
| D1321 | H-26 | Q1143 | G-6 |
| D1323 | D-25 | Q1144 | G-6 |
| D1324 | D-25 | Q1145 | G-6 |
| D1341 | H-26 | Q1151 | I-7 |
| D1368 | B-25 | Q1152 | G-4 |
| D1369 | B-25 | Q1201 | C-16 |
| | | Q1202 | F-16 |
| IC301 | G-19 | Q1203 | F-16 |
| IC501 | E-21 | Q1204 | F-27 |
| IC601 | E-8 | Q1251 | F-16 |
| IC602 | F-14 | Q1301 | A-30 |
| IC1001 | C-23 | Q1302 | H-25 |
| IC1002 | E-23 | | |

- Note:
- — : parts extracted from the component side.
 - : Pattern on the side which is seen.

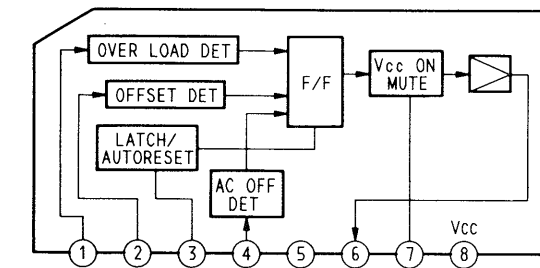
AUS: Australian
MY: Malaysian



3-4. SCHEMATIC DIAGRAMS—AUDIO Section—



● IC Block Diagrams

IC1202 μ PC1237HA

Note:

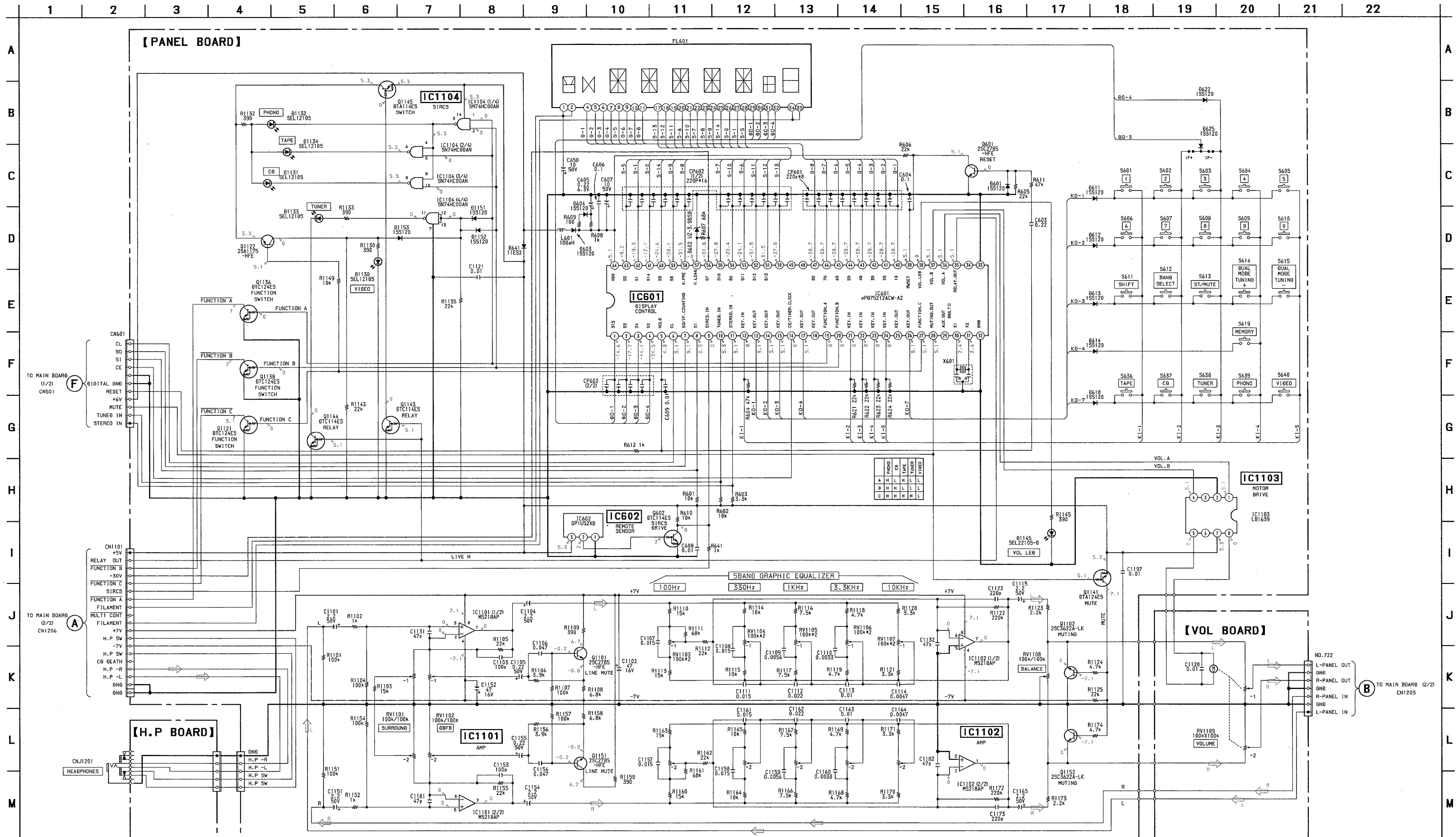
- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- \square : nonflammable resistor.
- \square : fusible resistor.
- \square : printed resistor.

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

- : B+ Line
- : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : FM Σ : PB (DECK A)

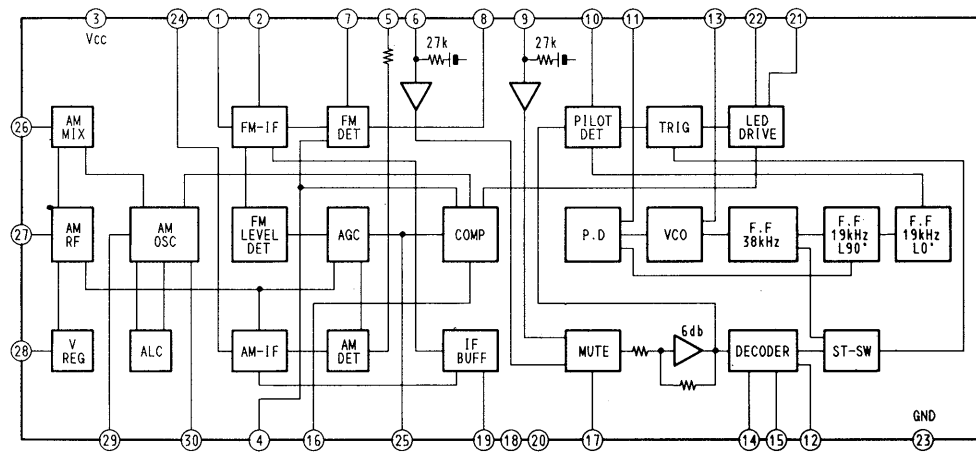
AUS: Australian
MY: Malaysian

3-5. SCHEMATIC DIAGRAMS—PANEL Section—
• See page 17 for note.

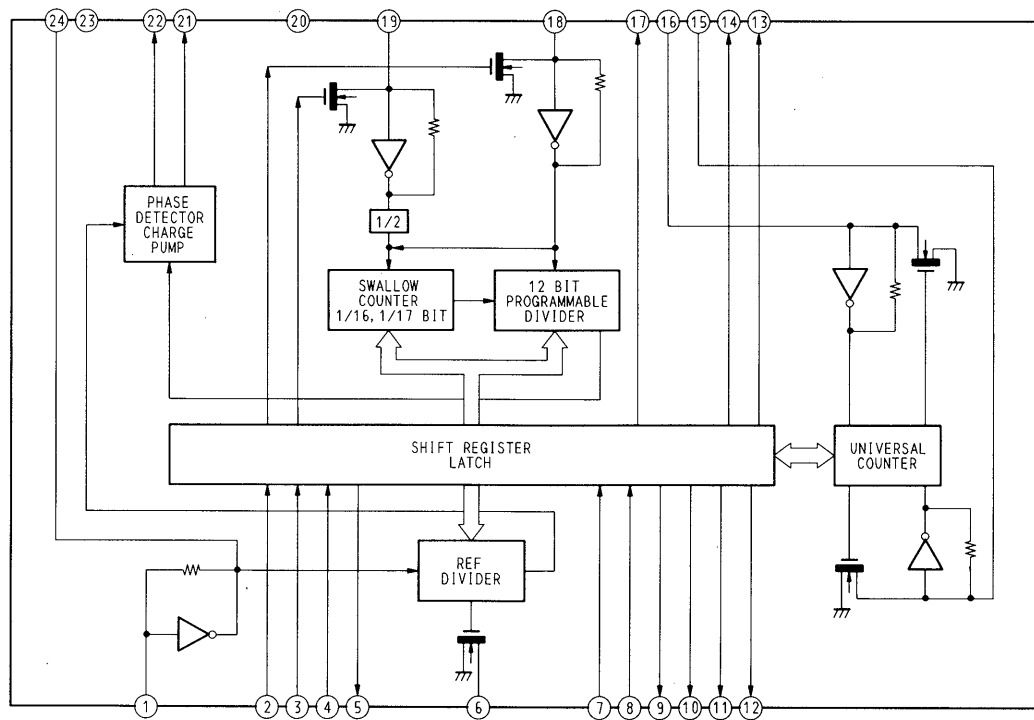


● IC Block Diagrams

IC301 LA1851N

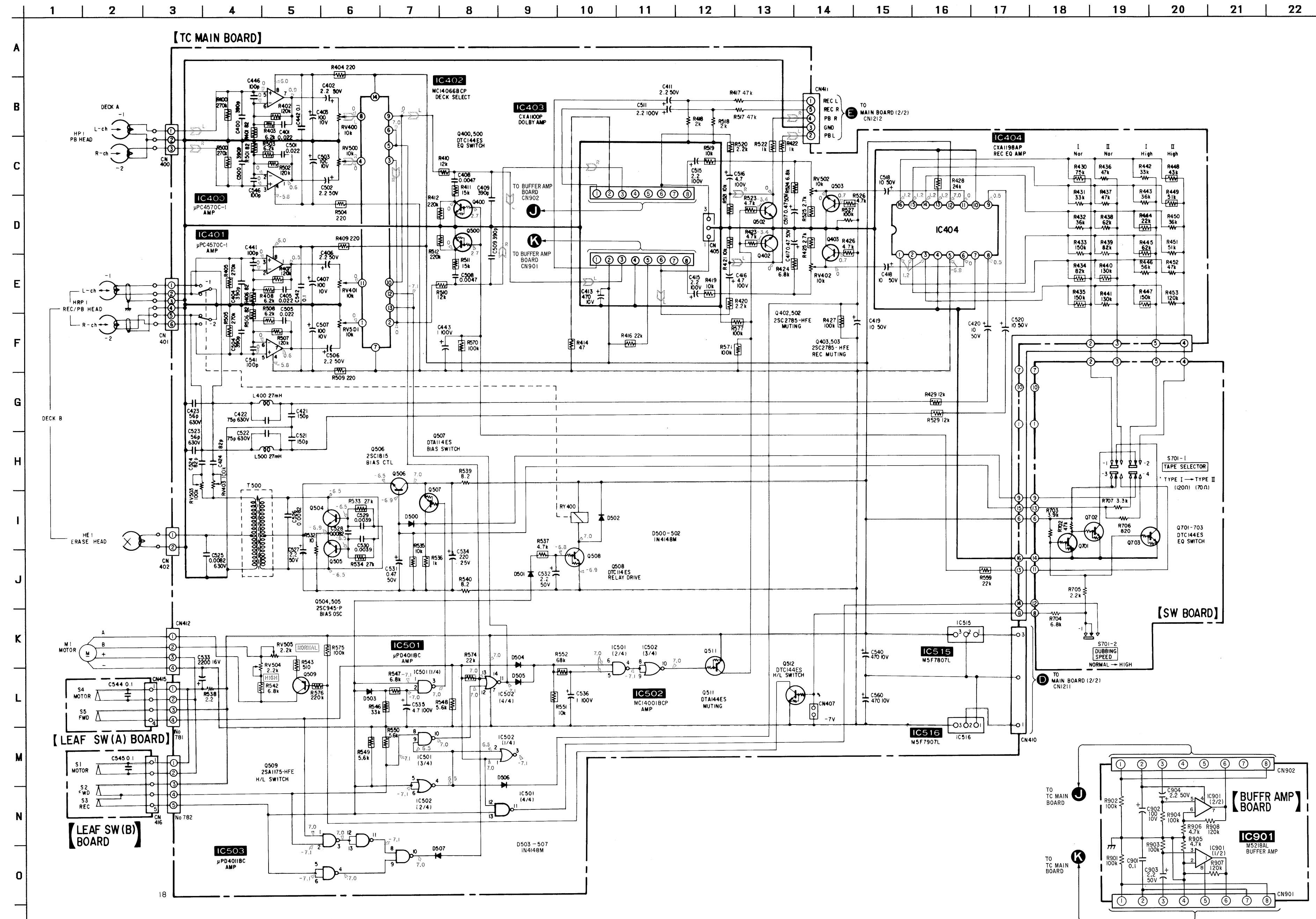


IC501 LC7218



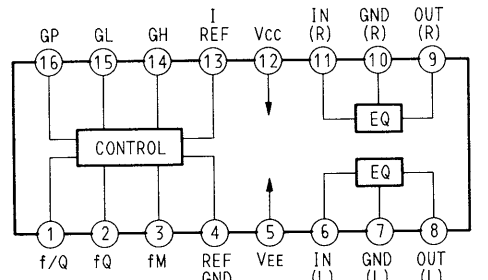
3-6. SCHEMATIC DIAGRAMS—TUNER Section—

• See page 17 for note



• IC Block Diagrams

IC404 CXA1198AP

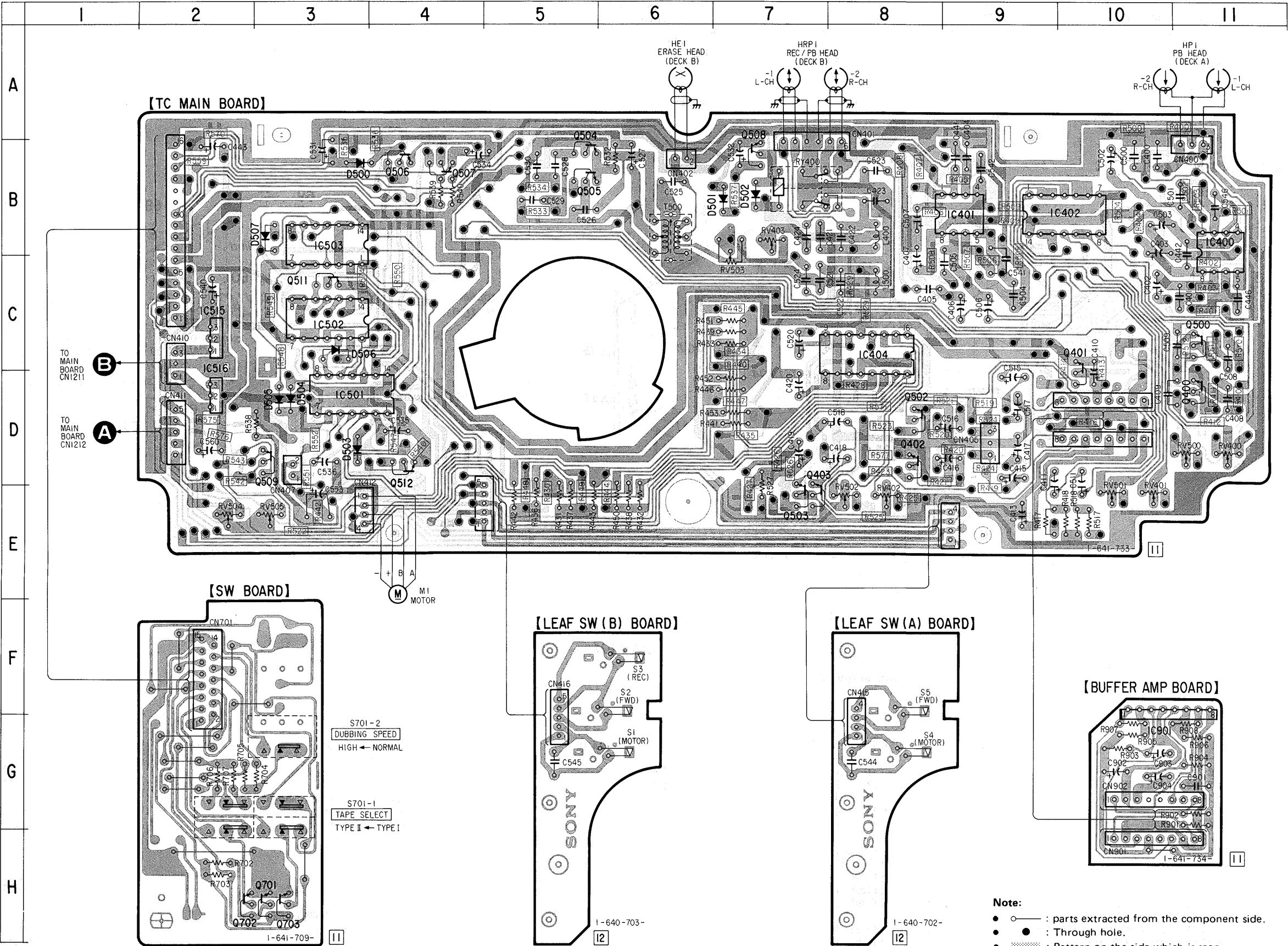


3-8. PRINTED WIRING BOARDS—TC Section—

- See page 8 for semiconductor lead layouts.
- See page 7 for circuit boards location.

● Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D500 | B-3 |
| D501 | B-7 |
| D502 | B-7 |
| D503 | D-3 |
| D504 | D-3 |
| D505 | D-3 |
| D506 | C-3 |
| D507 | B-3 |
| IC400 | B-11 |
| IC401 | B-9 |
| IC402 | B-10 |
| IC404 | C-8 |
| IC501 | D-3 |
| IC502 | C-3 |
| IC503 | B-3 |
| IC515 | C-2 |
| IC516 | D-2 |
| IC901 | G-10 |
| Q400 | D-11 |
| Q401 | C-10 |
| Q402 | D-8 |
| Q403 | E-7 |
| Q500 | C-11 |
| Q502 | D-8 |
| Q503 | E-7 |
| Q504 | B-5 |
| Q505 | B-5 |
| Q506 | B-4 |
| Q507 | B-4 |
| Q508 | B-8 |
| Q509 | D-3 |
| Q511 | C-3 |
| Q512 | D-4 |
| Q701 | H-3 |
| Q702 | H-2 |
| Q703 | H-3 |



SECTION 4 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.

- Color Indication of Appearance Parts

Example:

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

↑ ↑
Parts color Cabinet's color

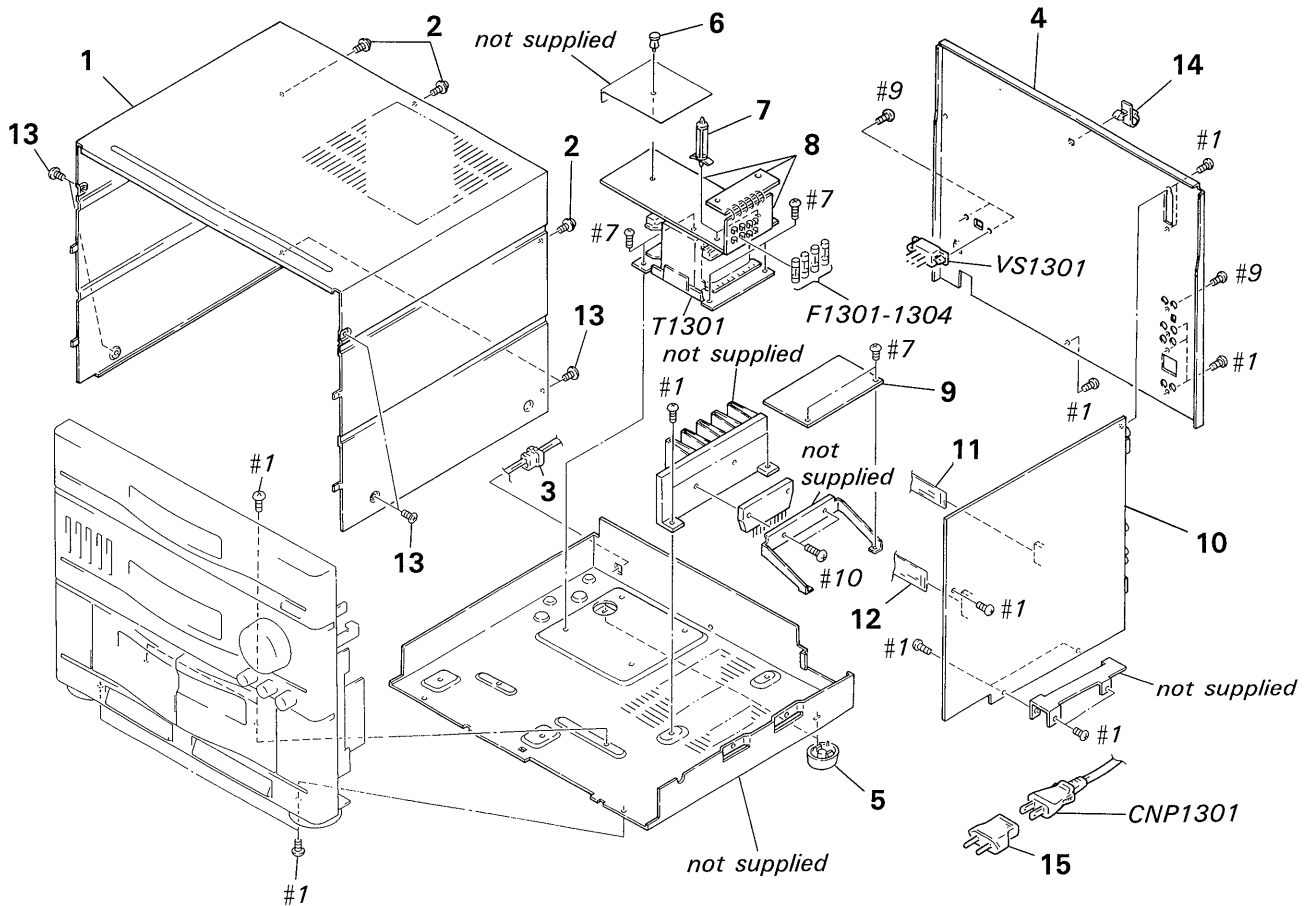
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

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

AUS: Australian

MY: Malaysian

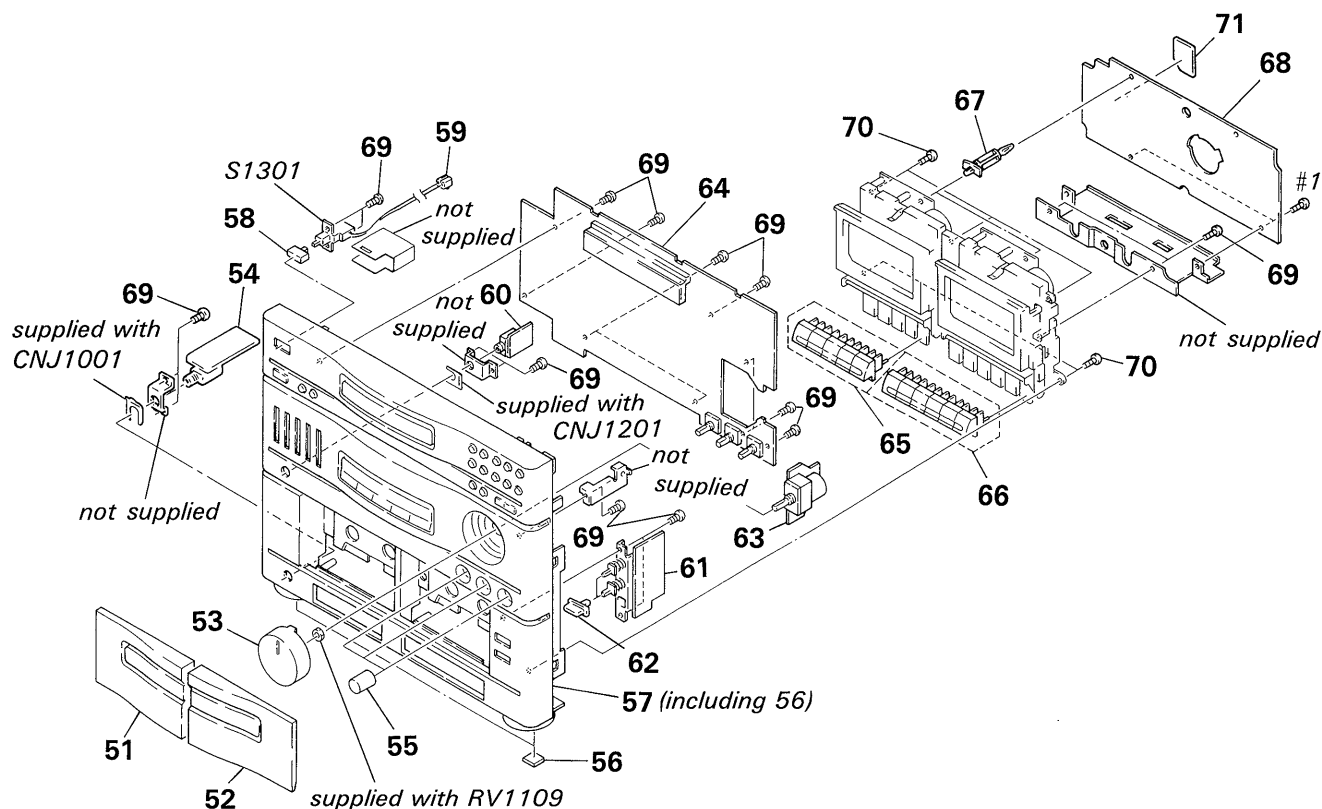
4-1. CABINET SECTION



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|
| * 1 | 4-942-291-11 | CASE | |
| 2 | 4-929-973-01 | SCREW (CASE, 3 POINT) | |
| * 3 | 3-703-244-00 | BUSHING (2104), CORD (AUS) | |
| * 3 | 3-703-571-31 | BUSHING (S) (4516), CORD (E, MY) | |
| * 4 | 4-948-282-71 | PANEL, BACK (E, MY) | |
| * 4 | 4-948-282-91 | PANEL, BACK (AUS) | |
| 5 | X-4941-228-1 | FOOT ASSY | |
| 6 | 4-812-134-11 | RIVET NYLON, 3.5 | |
| * 7 | 4-924-098-81 | HOLDER, PC BOARD | |
| * 8 | 1-641-708-11 | POWER BOARD | |
| * 9 | A-4345-918-A | POWER AMP BOARD, COMPLETE | |
| * 10 | A-4345-915-A | MAIN BOARD, COMPLETE (E2, AUS) | |
| * 10 | A-4356-064-A | MAIN BOARD, COMPLETE (E3, MY) | |

| Ref. No. | Part No. | Description | Remark |
|----------|---------------------|-------------------------------------|--------|
| 11 | 1-590-459-11 | WIRE, FLAT TYPE (11 CORE) | |
| 12 | 1-590-578-11 | WIRE, FLAT TYPE (19 CORE) | |
| 13 | 3-363-099-01 | SCREW (CASE +3X8 TP2) | |
| * 14 | 4-949-235-01 | HOOK | |
| 15 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E3, MY) | |
| | CNP13011-575-653-11 | CORD, POWER (E, MY) | |
| | CNP13011-690-608-11 | CORD, POWER (WITH CONNECTOR) (AUS) | |
| | F1301 | 1-532-237-00 FUSE, TIME LAG (3.15A) | |
| | F1302 | 1-532-237-00 FUSE, TIME LAG (3.15A) | |
| | F1303 | 1-532-203-00 FUSE (2.0A) | |
| | F1304 | 1-532-203-00 FUSE (2.0A) | |
| | T1301 | 1-450-311-11 TRANSFORMER, POWER | |
| | VS1301 | 1-570-046-21 SWITCH, VOLTAGE CHANGE | |

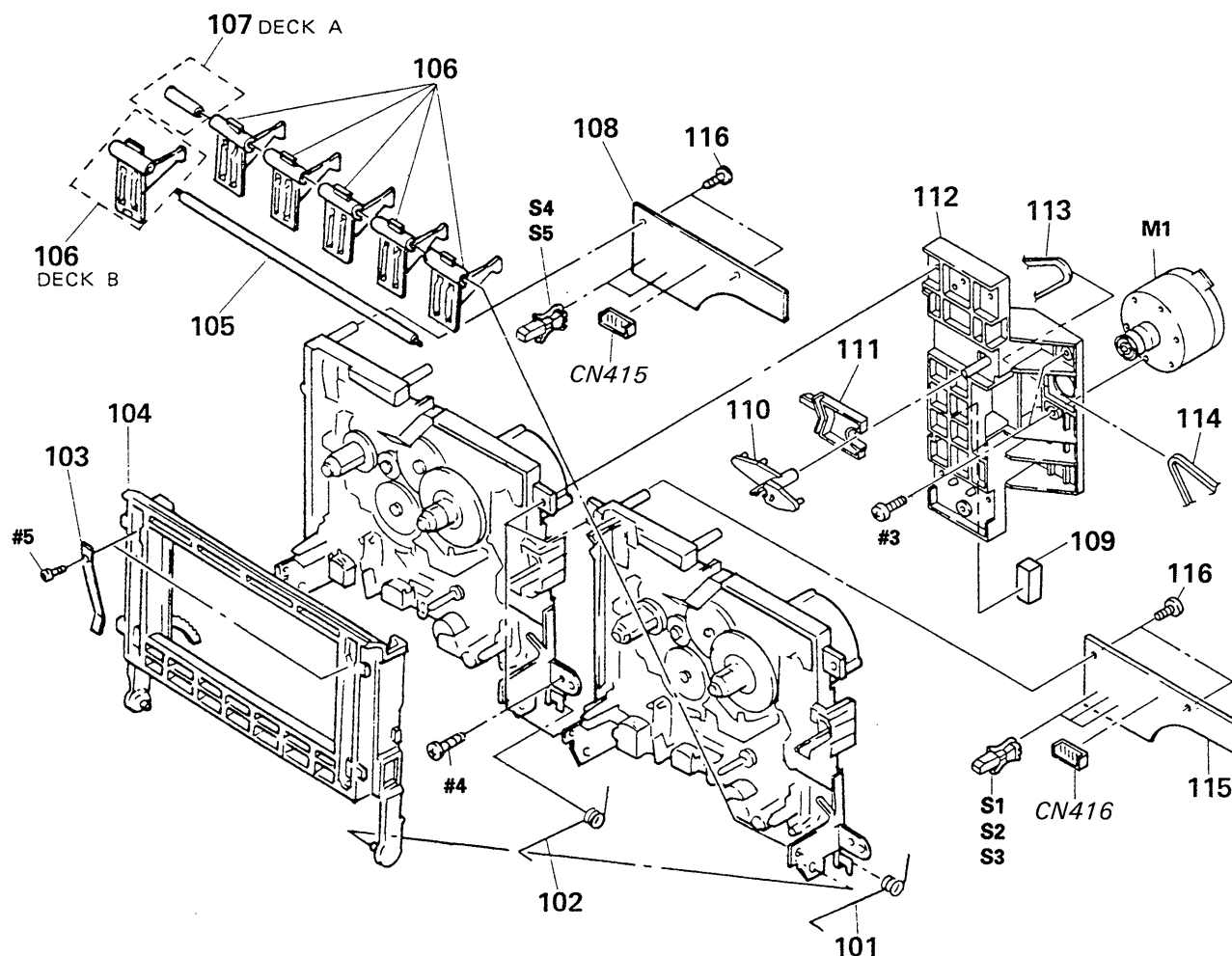
4-2. FRONT PANEL SECTION



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|
| 51 | A-4325-346-A | LID (A) ASSY, CASSETTE | |
| 52 | A-4325-347-A | LID (B) ASSY, CASSETTE | |
| 53 | A-4323-382-A | KNOB (VOL.) ASSY | |
| * 54 | 1-641-710-11 | MIC BOARD | |
| 55 | 4-948-270-01 | KNOB (DSB) | |
| 56 | 4-948-236-01 | CUSHION (107) | |
| 57 | A-4325-351-A | PANEL ASSY, FRONT | |
| 58 | 4-930-783-11 | BUTTON (PO) | |
| ⚠ 59 | 1-690-708-11 | CORD (WITH CONNECTOR) | |
| * 60 | 1-641-707-11 | H. P. BOARD | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|
| * 61 | 1-641-709-11 | SW BOARD | |
| 62 | 4-948-257-01 | BUTTON (DDT) | |
| * 63 | 1-641-706-11 | VOL BOARD | |
| * 64 | A-4345-919-A | PANEL BOARD, COMPLETE | |
| 65 | 4-948-258-01 | BUTTON (MD-A) | |
| 66 | 4-948-259-01 | BUTTON (MD-B) | |
| * 67 | 4-924-098-31 | HOLDER, PC BOARD | |
| * 68 | A-4345-914-A | TC MAIN BOARD, COMPLETE | |
| 69 | 4-928-635-01 | SCREW, +BV (2.6X8) TAPPING | |
| 70 | 4-928-635-21 | SCREW, +BV (2.6X10) TAPPING | |
| * 71 | 1-641-734-11 | BUFFER AMP BOARD | |
| ⚠ S1301 | 1-572-267-61 | SWITCH, PUSH (AC POWER) (1 KEY) | |

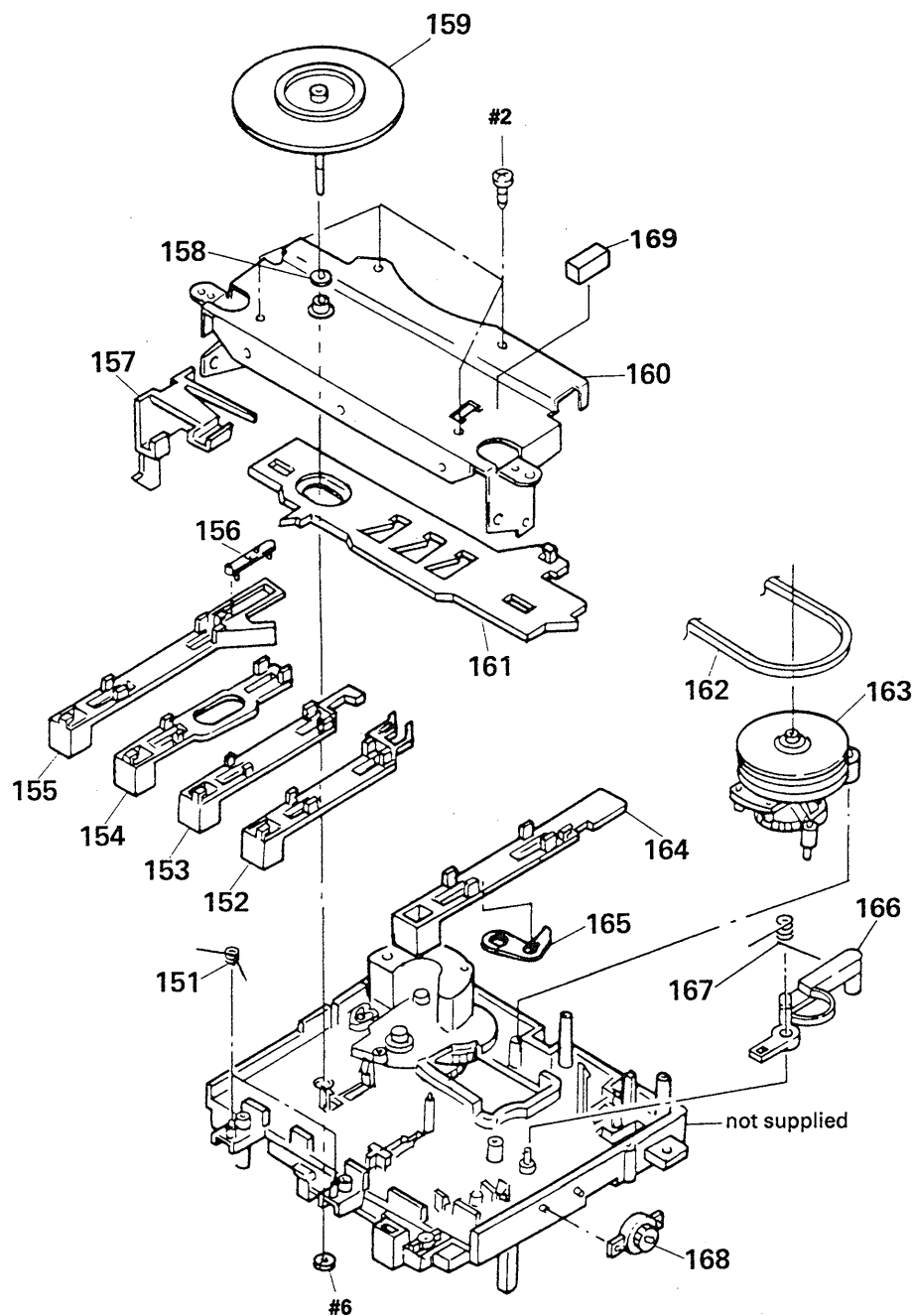
4-3. MECHANISM DECK SECTION-1 (TCM-180VW-H7)



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------|--------|
| 101 | 3-358-287-01 | SPRING (LOADING A), TORSION | |
| 102 | 3-358-229-01 | SPRING (LOADING), TORSION | |
| 103 | 3-358-209-01 | SPRING (CASSETTE HOLDER), LEAF | |
| 104 | 3-358-266-02 | HOLDER, CASSETTE | |
| 105 | 3-371-917-01 | SHAFT (BUTTON SHAFT 4) | |
| 106 | 3-369-335-01 | LEVER (BUTTON BASE F) | |
| * 107 | 3-358-216-01 | COLLAR (DECK A) | |
| * 108 | 1-640-702-11 | LEAF SW (A) BOARD | |
| * 109 | 3-358-289-01 | SPACER (VIBRATION PROOF MAT) | |
| 110 | 3-358-203-01 | LEVER (TRIGGER) | |
| 111 | 3-358-202-01 | SLIDER (TRIGGER) | |
| * 112 | 3-363-930-01 | BRAKET (JOINT BASE) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------|--------|
| 113 | 3-358-230-01 | BELT (A1) | |
| 114 | 3-364-777-01 | BELT (WH) | |
| * 115 | 1-640-703-11 | LEAF SW (B) BOARD | |
| 116 | 4-928-635-01 | SCREW +BV (2.6X8) TAPPING | |
| * CN415 | 1-568-942-11 | PIN, CONNECTOR 4P | |
| * CN416 | 1-568-943-11 | PIN, CONNECTOR 5P | |
| M1 | X-3362-377-1 | MOTOR (WH) ASSY | |
| S1 | 1-571-736-11 | SWITCH, LEAF (MOTOR) | |
| S2 | 1-571-736-11 | SWITCH, LEAF (FWD) | |
| S3 | 1-571-736-11 | SWITCH, LEAF (REC) | |
| S4 | 1-571-736-11 | SWITCH, LEAF (MOTOR) | |
| S5 | 1-571-736-11 | SWITCH, LEAF (FWD) | |

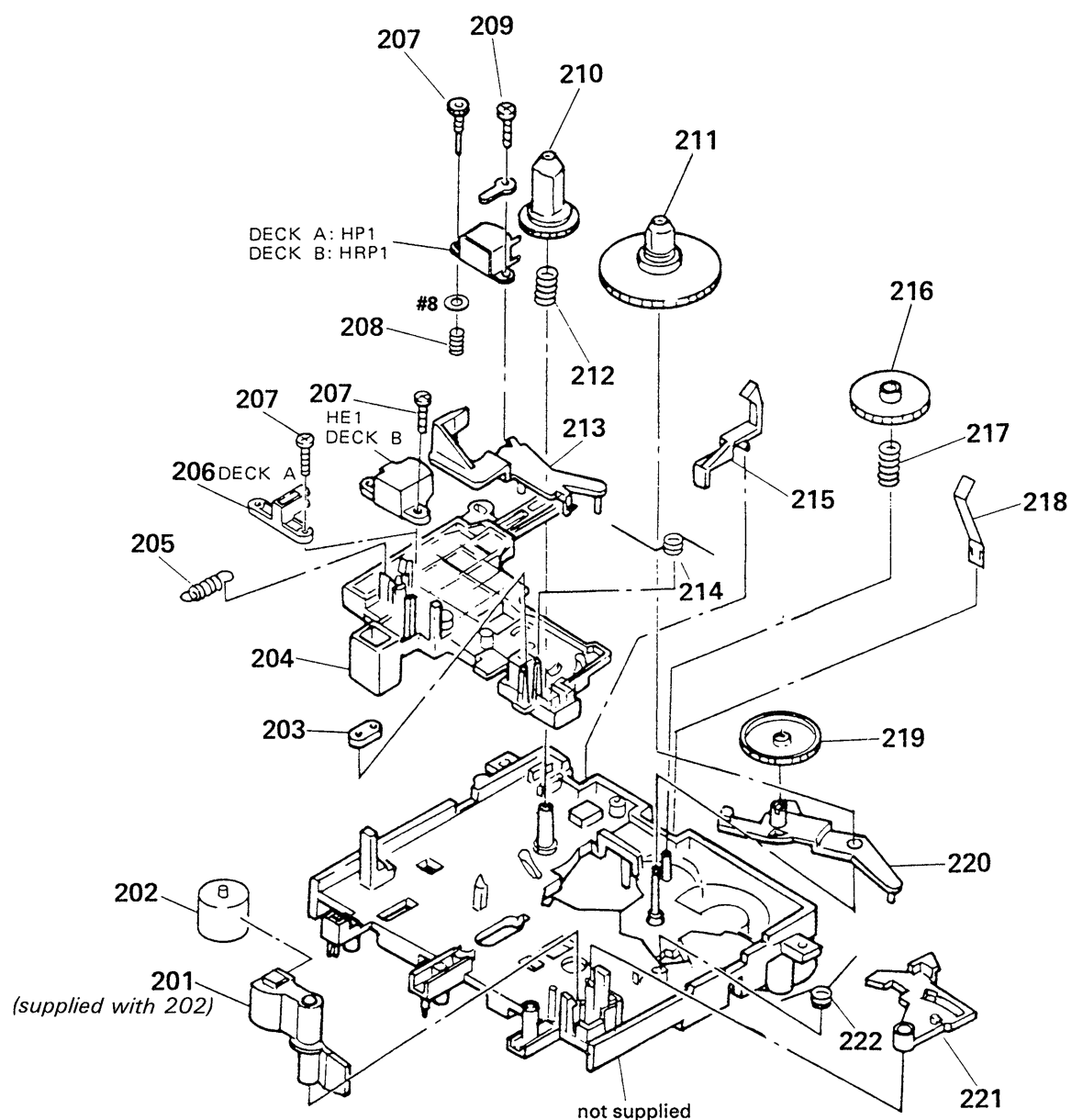
4-4. MECHANISM DECK SECTION-2 (TCM-180VW-H7)



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------|--------|
| 151 | 3-358-232-01 | SPRING (S-P F-R), TORSION | |
| 152 | 3-358-258-01 | SLIDER (REW) | |
| 153 | 3-358-257-01 | SLIDER (FF) | |
| 154 | 3-358-256-01 | SLIDER (STOP/EJECT) | |
| 155 | 3-358-260-01 | SLIDER (PAUSE) | |
| * 156 | 3-358-226-01 | LEVER (PAUSE LEVER) | |
| * 157 | 3-358-261-02 | SLIDER (HOLDER LOCK) | |
| 158 | 3-701-437-01 | WASHER | |
| 159 | X-3358-205-1 | FLYWHEEL (A) ASSY (DECK A) | |
| 159 | X-3358-206-1 | FLYWHEEL (B) ASSY (DECK B) | |
| * 160 | X-3358-208-1 | BRACKET (B) ASSY | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------------|--------|
| * 161 | 3-358-249-01 | SLIDER (LOCK PLATE) | |
| 162 | 3-358-230-01 | BELT (A1) | |
| 163 | X-3358-202-1 | LEVER (FR ARM) ASSY | |
| 164 | 3-358-259-01 | SLIDER (REC) (DECK B) | |
| * 165 | 3-358-204-01 | LEVER (REC SAFETY) (DECK B) | |
| 166 | 3-358-286-01 | LEVER (MOTOR LEVER) | |
| 167 | 3-358-214-01 | SPRING (LOCK), TORSION (DECK A) | |
| 167 | 3-358-233-01 | SPRING (REC-LOCK), TORSION (DECK B) | |
| 168 | 3-319-224-41 | DAMPER, SMALL | |
| * 169 | 3-358-289-01 | SPACER (VIBRATION PROOF MAT) | |

4-5. MECHANISM DECK SECTION-3 (TCM-180VW-H7)



| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|--------|
| 201 | X-3358-204-1 | LEVER (PINCH LEVER) ASSY | |
| 202 | 3-578-143-11 | PINCH ROLLER | |
| * 203 | 3-358-215-01 | BUSHING (WIRE KIT RETAINER) | |
| 204 | 3-358-265-01 | SLIDER (HEAD PC BOARD A) | |
| 205 | 3-358-217-01 | SPRING, TENSION | |
| * 206 | 3-363-931-01 | GUIDE, TAPE (DECK A) | |
| 207 | 3-358-288-11 | SCREW (T), AZIMUTH | |
| 208 | 3-358-234-01 | SPRING (AZIMUTH), COMPRESSION | |
| 209 | 3-358-288-01 | SCREW (T), AZIMUTH | |
| 210 | 3-358-248-01 | GEAR (SUPPLY REEL) | |
| 211 | X-3358-203-1 | TABLE (T) ASSY, REEL | |
| 212 | 3-358-208-01 | SPRING (SUPPLY), COMPRESSION | |
| * 213 | 3-358-251-01 | LEVER (TENSION DETECTION ARM) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|
| 214 | 3-358-228-01 | SPRING, TORSION | |
| * 215 | 3-358-255-01 | LEVER (GB LEVER) | |
| * 216 | 3-358-224-01 | GEAR (FF GEAR) | |
| 217 | 3-358-207-01 | SPRING (FF GEAR), COMPRESSION | |
| 218 | 3-358-227-01 | SPRING, LEAF | |
| * 219 | 3-358-284-01 | GEAR (TU GEAR) | |
| * 220 | 3-358-252-01 | LEVER (TU ARM) | |
| * 221 | 3-358-253-01 | LEVER (SHUT-OFF LEVER) | |
| 222 | 3-358-243-01 | SPRING (TU-SHUT), TORSION | |
| HE1 | 1-543-673-11 | HEAD, MAGNETIC (ERASE) (DECK B) | |
| HP1 | 1-543-319-11 | HEAD, MAGNETIC (PB) (DECK A) | |
| HRP1 | 1-543-319-11 | HEAD, MAGNETIC (REC/PB) (DECK B) | |

SECTION 5 ELECTRICAL PARTS LIST

BUFFER AMP

H.P.

LEAF SW (A)

LEAF SW (B)

MAIN

NOTE:

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

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

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

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

AUS: Australian
MY: Malaysian

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|
| * | 1-641-734-11 | BUFFER AMP BOARD ***** | |
| | | < CAPACITOR > | |
| C901 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C902 | 1-124-584-00 | ELECT 100uF 20% | 10V |
| C903 | 1-124-257-00 | ELECT 2.2uF 20% | 50V |
| C904 | 1-124-257-00 | ELECT 2.2uF 20% | 50V |
| | | < CONNECTOR > | |
| * CN901 | 1-573-090-11 | PIN, CONNECTOR (PC BOARD) 8P | |
| * CN902 | 1-573-090-11 | PIN, CONNECTOR (PC BOARD) 8P | |
| | | < IC > | |
| IC901 | 8-759-634-50 | IC M5218AL | |
| | | < RESISTOR > | |
| R901 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R902 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R903 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R904 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R905 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R906 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R907 | 1-247-881-00 | CARBON 120K 5% 1/4W | |
| R908 | 1-247-881-00 | CARBON 120K 5% 1/4W | |
| ***** | | | |
| * | 1-641-707-11 | H. P. BOARD ***** | |
| | | < JACK > | |
| CNJ12011 | 691-003-11 | JACK, LARGE TYPE ***** | |
| * | 1-640-702-11 | LEAF SW (A) BOARD ***** | |
| | | < CAPACITOR > | |
| C544 | 1-164-159-11 | CERAMIC 0.1uF | 50V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|
| | | < CONNECTOR > | |
| * CN415 | 1-568-942-11 | PIN, CONNECTOR 4P | |
| | | < SWITCH > | |
| S4 | 1-571-736-11 | SWITCH, LEAF (MOTOR) | |
| S5 | 1-571-736-11 | SWITCH, LEAF (FWD) | |
| ***** | | | |
| * | 1-640-703-11 | LEAF SW (B) BOARD ***** | |
| | | < CAPACITOR > | |
| C545 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| | | < CONNECTOR > | |
| * CN416 | 1-568-943-11 | PIN, CONNECTOR 5P | |
| | | < SWITCH > | |
| S1 | 1-571-736-11 | SWITCH, LEAF (MOTOR) | |
| S2 | 1-571-736-11 | SWITCH, LEAF (FWD) | |
| S3 | 1-571-736-11 | SWITCH, LEAF (REC) | |
| ***** | | | |
| * | A-4345-915-A | MAIN BOARD, COMPLETE (E2, AUS) | |
| * | A-4356-064-A | MAIN BOARD, COMPLETE (E3, MY) ***** | |
| * | 4-942-204-01 | PLATE, GROUND | |
| | 7-685-646-79 | SCREW +BVT 3X8 TYPE2 N-S | |
| | | < CAPACITOR > | |
| C302 | 1-124-477-11 | ELECT 47uF 20% | 25V |
| C303 | 1-161-379-00 | CERAMIC 0.01uF 20% | 25V |
| C307 | 1-161-379-00 | CERAMIC 0.01uF 20% | 25V |
| C308 | 1-161-379-00 | CERAMIC 0.01uF 20% | 25V |
| C309 | 1-161-379-00 | CERAMIC 0.01uF 20% | 25V |
| C310 | 1-124-477-11 | ELECT 47uF 20% | 25V |
| C311 | 1-161-379-00 | CERAMIC 0.01uF 20% | 25V |
| C312 | 1-101-006-00 | CERAMIC 0.047uF | 50V |
| C313 | 1-123-382-00 | ELECT 3.3uF 20% | 100V |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|-----------|-----|------|
| C314 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C315 | 1-161-329-00 | CERAMIC | 0. 0068uF | 30% | 16V |
| C316 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C318 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C320 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C321 | 1-124-902-00 | ELECT | 0. 47uF | 20% | 50V |
| C322 | 1-124-463-00 | ELECT | 0. 1uF | 20% | 50V |
| C323 | 1-161-329-00 | CERAMIC | 0. 0068uF | 30% | 16V |
| C324 | 1-161-329-00 | CERAMIC | 0. 0068uF | 30% | 16V |
| C325 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C326 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C327 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C328 | 1-124-463-00 | ELECT | 0. 1uF | 20% | 50V |
| C329 | 1-124-927-11 | ELECT | 4. 7uF | 20% | 100V |
| C330 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C331 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C332 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C335 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C336 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C341 | 1-123-382-00 | ELECT | 3. 3uF | 20% | 100V |
| C342 | 1-123-382-00 | ELECT | 3. 3uF | 20% | 100V |
| C343 | 1-123-382-00 | ELECT | 3. 3uF | 20% | 100V |
| C344 | 1-123-382-00 | ELECT | 3. 3uF | 20% | 100V |
| C345 | 1-161-375-00 | CERAMIC | 0. 0022uF | 20% | 50V |
| C346 | 1-161-375-00 | CERAMIC | 0. 0022uF | 20% | 50V |
| C361 | 1-164-098-11 | CERAMIC | 0. 047uF | | 12V |
| C362 | 1-161-494-00 | CERAMIC | 0. 022uF | | 25V |
| C371 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C501 | 1-102-961-00 | CERAMIC | 27PF | 5% | 50V |
| C502 | 1-102-961-00 | CERAMIC | 27PF | 5% | 50V |
| C503 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C504 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C505 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C506 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C507 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C521 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C522 | 1-124-463-00 | ELECT | 0. 1uF | 20% | 50V |
| C523 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C524 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C525 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1001 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1002 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1003 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1004 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1005 | 1-161-377-00 | CERAMIC | 0. 0047uF | 20% | 16V |
| C1006 | 1-161-374-11 | CERAMIC | 0. 0015uF | 20% | 50V |
| C1007 | 1-124-464-11 | ELECT | 0. 22uF | 20% | 50V |
| C1008 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|-----------|-----|---------------|
| C1009 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1010 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1012 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1013 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C1014 | 1-161-494-00 | CERAMIC | 0. 022uF | | 25V |
| C1025 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1026 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1051 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1052 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1053 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1054 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1055 | 1-161-377-00 | CERAMIC | 0. 0047uF | 20% | 16V |
| C1056 | 1-161-374-11 | CERAMIC | 0. 0015uF | 20% | 50V |
| C1057 | 1-124-464-11 | ELECT | 0. 22uF | 20% | 50V |
| C1058 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1059 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1060 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1062 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1063 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C1064 | 1-161-494-00 | CERAMIC | 0. 022uF | | 25V |
| C1075 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1076 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1212 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C1213 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C1221 | 1-126-101-11 | ELECT | 100uF | 20% | 16V |
| C1222 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C1223 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C1262 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C1263 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C1302 | 1-102-394-11 | CERAMIC | 0. 01uF | | 250V |
| C1304 | 1-126-413-11 | ELECT | 3300uF | 20% | 35V |
| C1305 | 1-126-413-11 | ELECT | 3300uF | 20% | 35V |
| C1306 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1308 | 1-126-101-11 | ELECT | 100uF | 20% | 16V |
| C1309 | 1-126-101-11 | ELECT | 100uF | 20% | 16V |
| C1312 | 1-124-563-11 | ELECT | 2200uF | 20% | 25V |
| C1313 | 1-124-563-11 | ELECT | 2200uF | 20% | 25V |
| C1319 | 1-124-463-00 | ELECT | 0. 1uF | 20% | 50V |
| C1320 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C1321 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C1322 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| C1324 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C1326 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C1330 | 1-126-101-11 | ELECT | 100uF | 20% | 16V |
| C1331 | 1-102-394-11 | CERAMIC | 0. 01uF | | 250V |
| C1335 | 1-124-907-11 | ELECT | 10uF | 20% | 50V (E2, AUS) |
| C1336 | 1-126-101-11 | ELECT | 100uF | 20% | 16V (E2, AUS) |
| C1341 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |

MAIN

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|-----------------------------|----------|-----|------|
| C1346 | 1-124-925-11 | ELECT | 2. 2uF | 20% | 100V |
| C1351 | 1-124-122-11 | ELECT | 100uF | 20% | 50V |
| C1352 | 1-126-105-11 | ELECT | 1000uF | 20% | 35V |
| C1353 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V |
| C1354 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V |
| C1361 | 1-124-122-11 | ELECT | 100uF | 20% | 50V |
| < FILTER > | | | | | |
| CF301 | 1-577-070-81 | FILTER, CERAMIC | | | |
| CF303 | 1-577-070-81 | FILTER, CERAMIC | | | |
| CF304 | 1-577-075-11 | OSCILLATOR, CERAMIC | | | |
| < CONNECTOR > | | | | | |
| * CN501 | 1-568-830-11 | SOCKET, CONNECTOR 11P | | | |
| * CN1001 | 1-580-912-11 | JACK, PIN 4P | | | |
| * CN1002 | 1-580-691-11 | JACK, PIN 2P | | | |
| * CN1006 | 1-568-955-11 | PIN, CONNECTOR 6P | | | |
| * CN1201 | 1-537-327-11 | TERMINAL BOARD | | | |
| CN1202 | 1-569-130-11 | JACK, PIN 2P | | | |
| * CN1203 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| * CN1204 | 1-564-510-11 | PLUG, CONNECTOR 7P | | | |
| * CN1205 | 1-568-934-11 | PIN, CONNECTOR 7P | | | |
| CN1206 | 1-568-802-11 | SOCKET, CONNECTOR 19P | | | |
| * CN1211 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| * CN1212 | 1-564-508-11 | PLUG, CONNECTOR 5P | | | |
| * CN1301 | 1-566-210-11 | PIN, CONNECTOR 3P (E2, AUS) | | | |
| < DIODE > | | | | | |
| D1202 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1203 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1204 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1302 | 8-719-312-09 | DIODE | RBA-402 | | |
| D1303 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1304 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1305 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1306 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1318 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1319 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1321 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1323 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1324 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1341 | 8-719-001-76 | DIODE | UZL-12M3 | | |
| D1368 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1369 | 8-719-200-82 | DIODE | 11ES2 | | |
| < FRONTEND > | | | | | |
| FE301 | 1-465-006-11 | FRONT END (FM) (2 GANG) | | | |
| FE352 | 1-236-461-11 | ENCAPSULATED COMPONENT | | | |

| Ref. No. | Part No. | Description | Remark | | |
|----------------|--------------|------------------|-------------------|----|------|
| < IC > | | | | | |
| IC301 | 8-759-821-45 | IC | LA1851N | | |
| IC501 | 8-759-820-91 | IC | LC7218 | | |
| IC1001 | 8-759-634-51 | IC | M5218AP | | |
| IC1002 | 8-759-000-48 | IC | MC14052BCP | | |
| IC1003 | 8-759-634-51 | IC | M5218AP | | |
| IC1004 | 8-759-000-49 | IC | MC14066BCP | | |
| IC1202 | 8-759-111-68 | IC | uPC1237HA | | |
| IC1303 | 8-759-604-86 | IC | M5F7807L | | |
| IC1304 | 8-759-604-90 | IC | M5F7907L | | |
| IC1305 | 8-759-820-13 | IC | L78MR06 | | |
| IC1306 | 8-759-231-58 | IC | TA7812S (E2, AUS) | | |
| < IFT > | | | | | |
| IFT301 | 1-404-713-11 | TRANSFORMER, IF | | | |
| < COIL > | | | | | |
| L301 | 1-410-686-11 | INDUCTOR | 1mH | | |
| < FILTER > | | | | | |
| LPF301 | 1-235-164-00 | FILTER, LOW PASS | | | |
| LPF302 | 1-235-164-00 | FILTER, LOW PASS | | | |
| < TRANSISTOR > | | | | | |
| Q303 | 8-729-231-00 | TRANSISTOR | 2SC2669-OY | | |
| Q304 | 8-729-231-00 | TRANSISTOR | 2SC2669-OY | | |
| Q305 | 8-729-900-80 | TRANSISTOR | DTC114ES | | |
| Q306 | 8-729-900-61 | TRANSISTOR | DTA114ES | | |
| Q307 | 8-729-900-80 | TRANSISTOR | DTC114ES | | |
| Q308 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q309 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q501 | 8-729-900-80 | TRANSISTOR | DTC114ES | | |
| Q502 | 8-729-900-61 | TRANSISTOR | DTA114ES | | |
| Q521 | 8-729-202-67 | TRANSISTOR | 2SK246-GR3 | | |
| Q522 | 8-729-201-84 | TRANSISTOR | 2SC3112-B | | |
| Q1001 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | | |
| Q1002 | 8-729-900-36 | TRANSISTOR | DTC124ES | | |
| Q1204 | 8-729-900-63 | TRANSISTOR | DTA124ES | | |
| Q1302 | 8-729-209-15 | TRANSISTOR | 2SD2012 | | |
| < RESISTOR > | | | | | |
| R301 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R302 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R308 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R309 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R310 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R311 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |

MAIN

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|------|
| R312 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R313 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R315 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R316 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R317 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R318 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R319 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R320 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R321 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R322 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R323 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W |
| R324 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R325 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R326 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R327 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R328 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R331 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R332 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R333 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R334 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R335 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R336 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R337 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R338 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R361 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R362 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R501 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R502 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R503 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R504 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R505 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R506 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R510 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R511 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R512 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R513 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R514 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R515 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R521 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R522 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R523 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R524 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R525 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R526 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R527 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R528 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R529 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R530 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R1001 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|------|
| R1002 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1003 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R1004 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W |
| R1005 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1006 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R1007 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1008 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R1010 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R1011 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R1012 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1013 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1014 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1015 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1016 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1017 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1018 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1019 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1021 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1022 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1023 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1024 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1026 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1029 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1037 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1051 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1052 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1053 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R1054 | 1-247-897-11 | CARBON | 560K | 5% | 1/4W |
| R1055 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1056 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R1057 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1058 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R1060 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R1061 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R1062 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1063 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1071 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1072 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1073 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1074 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1095 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1222 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R1223 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| △R1226 | 1-215-889-00 | METAL OXIDE | 330 | 5% | 2W F |
| R1233 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1234 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R1235 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R1236 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1237 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

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

MAIN

MIC

PANEL

| Ref. No. | Part No. | Description | Remark | | |
|-----------------------|--------------|----------------------------|---------|-----|----------------|
| R1240 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R1272 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R1273 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R1290 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1301 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1302 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1321 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1322 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1345 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R1346 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W (E2, AUS) |
| < VARIABLE RESISTOR > | | | | | |
| RV301 | 1-238-601-11 | RES, ADJ, CARBON 22K | | | |
| RV302 | 1-238-601-11 | RES, ADJ, CARBON 22K | | | |
| < RELAY > | | | | | |
| RY1201 | 1-515-533-11 | RELAY | | | |
| < TRANSFORMER > | | | | | |
| T301 | 1-404-807-11 | TRANSFORMER, DISCRIMINATOR | | | |
| < TERMINAL > | | | | | |
| * TM301 | 1-537-264-11 | TERMINAL BOARD | | | |
| < TEST PIN > | | | | | |
| * TP1 | 1-560-060-00 | PIN, CONNECTOR 2P | | | |
| < VIBRATOR > | | | | | |
| XT501 | 1-577-126-11 | VIBRATOR, CRYSTAL (7.5MHz) | | | |
| XT501 | 1-579-383-11 | VIBRATOR, CRYSTAL | | | |
| ***** | | | | | |
| * 1-641-710-11 | MIC BOARD | | | | |
| ***** | | | | | |
| < JACK > | | | | | |
| * J1001 | 1-691-002-21 | JACK, LARGE TYPE | | | |
| < CAPACITOR > | | | | | |
| C1037 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |
| C1038 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C1039 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1040 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1041 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C1043 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1044 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1045 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |

| Ref. No. | Part No. | Description | Remark | | |
|---------------|------------------------------------|---------------|----------|-----|------|
| C1046 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1047 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| < IC > | | | | | |
| IC1005 | 8-759-634-51 | IC M5218AP | | | |
| < RESISTOR > | | | | | |
| R1039 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1040 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1041 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| R1042 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R1043 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1045 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| ***** | | | | | |
| * | A-4345-919-A PANEL BOARD, COMPLETE | | | | |
| | ***** | | | | |
| * | 4-930-781-11 HOLDER (VO), LED | | | | |
| * | 4-942-301-01 HOLDER, FL TUBE | | | | |
| * | 4-948-247-01 HOLDER (FU), LED | | | | |
| * | 4-949-935-01 CUSHION (FL) | | | | |
| < CAPACITOR > | | | | | |
| C603 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C604 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C605 | 1-125-486-11 | DOUBLE LAYERS | 0.22F | | 5.5V |
| C606 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C607 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C608 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C609 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C650 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C1101 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1102 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C1103 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1104 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1105 | 1-124-464-11 | ELECT | 0.22uF | 20% | 50V |
| C1106 | 1-136-161-00 | FILM | 0.047uF | 5% | 50V |
| C1107 | 1-136-155-00 | FILM | 0.015uF | 5% | 50V |
| C1108 | 1-136-155-00 | FILM | 0.015uF | 5% | 50V |
| C1109 | 1-130-480-00 | MYLAR | 0.0056uF | 5% | 50V |
| C1110 | 1-161-327-00 | CERAMIC | 0.0033uF | 20% | 16V |
| C1111 | 1-136-155-00 | FILM | 0.015uF | 5% | 50V |
| C1112 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C1113 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C1114 | 1-161-377-00 | CERAMIC | 0.0047uF | 20% | 16V |
| C1115 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C1121 | 1-161-379-00 | CERAMIC | 0.01uF | 20% | 25V |
| C1123 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |

PANEL

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|-----------------------|---------------------|-----|-----|
| C1131 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1132 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1151 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V |
| C1152 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C1153 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C1154 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V |
| C1155 | 1-124-464-11 | ELECT | 0. 22uF | 20% | 50V |
| C1156 | 1-136-161-00 | FILM | 0. 047uF | 5% | 50V |
| C1157 | 1-136-155-00 | FILM | 0. 015uF | 5% | 50V |
| C1158 | 1-136-155-00 | FILM | 0. 015uF | 5% | 50V |
| C1159 | 1-130-480-00 | MYLAR | 0. 0056uF | 5% | 50V |
| C1160 | 1-161-327-00 | CERAMIC | 0. 0033uF | 20% | 16V |
| C1161 | 1-136-155-00 | FILM | 0. 015uF | 5% | 50V |
| C1162 | 1-136-157-00 | FILM | 0. 022uF | 5% | 50V |
| C1163 | 1-136-153-00 | FILM | 0. 01uF | 5% | 50V |
| C1164 | 1-161-377-00 | CERAMIC | 0. 0047uF | 20% | 16V |
| C1165 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V |
| C1173 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1181 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1182 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C1197 | 1-161-379-00 | CERAMIC | 0. 01uF | 20% | 25V |
| < CONNECTOR > | | | | | |
| * CN601 | 1-568-830-11 | SOCKET, CONNECTOR 11P | | | |
| CN1101 | 1-568-802-11 | SOCKET, CONNECTOR 19P | | | |
| < DIODE > | | | | | |
| D601 | 8-719-987-63 | DIODE | 1N4148M | | |
| D602 | 8-719-010-26 | DIODE | UZ-3. 9BSB | | |
| D603 | 8-719-987-63 | DIODE | 1N4148M | | |
| D604 | 8-719-987-63 | DIODE | 1N4148M | | |
| D611 | 8-719-987-63 | DIODE | 1N4148M | | |
| D612 | 8-719-987-63 | DIODE | 1N4148M | | |
| D613 | 8-719-987-63 | DIODE | 1N4148M | | |
| D614 | 8-719-987-63 | DIODE | 1N4148M | | |
| D618 | 8-719-987-63 | DIODE | 1N4148M | | |
| D622 | 8-719-987-63 | DIODE | 1N4148M | | |
| D625 | 8-719-987-63 | DIODE | 1N4148M | | |
| D641 | 8-719-200-82 | DIODE | 11ES2 | | |
| D1130 | 8-719-302-45 | LED | SEL1210S (VIDEO) | | |
| D1131 | 8-719-302-45 | LED | SEL1210S (CD) | | |
| D1132 | 8-719-302-45 | LED | SEL1210S (PHONO) | | |
| D1133 | 8-719-302-45 | LED | SEL1210S (TUNER) | | |
| D1134 | 8-719-302-45 | LED | SEL1210S (TAPE) | | |
| D1145 | 8-719-301-39 | LED | SEL2210S-D (VOLUME) | | |
| D1151 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1152 | 8-719-987-63 | DIODE | 1N4148M | | |
| D1153 | 8-719-987-63 | DIODE | 1N4148M | | |

| Ref. No. | Part No. | Description | Remark |
|----------------|--------------|-----------------------------|--------------|
| < FILTER > | | | |
| FL601 | 1-519-711-11 | INDICATOR TUBE, FLUORESCENT | |
| < IC > | | | |
| IC601 | 8-759-053-97 | IC uPD75212ACW-A21 | |
| IC602 | 8-749-920-83 | IC GP1U52XB | |
| IC1101 | 8-759-634-51 | IC M5218AP | |
| IC1102 | 8-759-634-51 | IC M5218AP | |
| IC1103 | 8-759-820-62 | IC LB1639 | |
| IC1104 | 8-759-916-12 | IC TC74HC00P | |
| < COIL > | | | |
| L601 | 1-410-521-11 | INDUCTOR | 100uH |
| < TRANSISTOR > | | | |
| Q601 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE |
| Q602 | 8-729-900-80 | TRANSISTOR | DTC114ES |
| Q1101 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE |
| Q1102 | 8-729-141-26 | TRANSISTOR | 2SC3622A-LK |
| Q1121 | 8-729-900-36 | TRANSISTOR | DTC124ES |
| Q1122 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE |
| Q1136 | 8-729-900-36 | TRANSISTOR | DTC124ES |
| Q1138 | 8-729-900-36 | TRANSISTOR | DTC124ES |
| Q1141 | 8-729-900-63 | TRANSISTOR | DTA124ES |
| Q1143 | 8-729-900-80 | TRANSISTOR | DTC114ES |
| Q1144 | 8-729-900-80 | TRANSISTOR | DTC114ES |
| Q1145 | 8-729-900-61 | TRANSISTOR | DTA114ES |
| Q1151 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE |
| Q1152 | 8-729-141-26 | TRANSISTOR | 2SC3622A-LK |
| < RESISTOR > | | | |
| R601 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R602 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R603 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R604 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R605 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R606 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R607 | 1-249-439-11 | CARBON | 68K 5% 1/4W |
| R608 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R609 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R610 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R611 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R612 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R621 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R622 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R623 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R624 | 1-249-433-11 | CARBON | 22K 5% 1/4W |

PANEL

POWER AMP

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|--------------|
| R641 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R1101 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1102 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R1103 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R1104 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1105 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1106 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W |
| R1107 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1108 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W |
| R1109 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1110 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R1111 | 1-249-439-11 | CARBON | 68K 5% 1/4W |
| R1112 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1113 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R1114 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R1115 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R1116 | 1-247-852-11 | CARBON | 7.5K 5% 1/4W |
| R1117 | 1-247-852-11 | CARBON | 7.5K 5% 1/4W |
| R1118 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R1119 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R1120 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R1121 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R1122 | 1-247-887-00 | CARBON | 220K 5% 1/4W |
| R1123 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R1124 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R1125 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1130 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1132 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1133 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1135 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1143 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1145 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1149 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R1151 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1152 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R1154 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1155 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1156 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W |
| R1157 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R1158 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W |
| R1159 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R1160 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R1161 | 1-249-439-11 | CARBON | 68K 5% 1/4W |
| R1162 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R1163 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R1164 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R1165 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R1166 | 1-247-852-11 | CARBON | 7.5K 5% 1/4W |
| R1167 | 1-247-852-11 | CARBON | 7.5K 5% 1/4W |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|--------------|
| R1168 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R1169 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R1170 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R1171 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R1172 | 1-247-887-00 | CARBON | 220K 5% 1/4W |
| R1173 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R1174 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |

< VARIABLE RESISTOR >

| | | | |
|--------|--------------|------------------|----------------------|
| RV1101 | 1-241-353-11 | RES, VAR, CARBON | 100K/100K (SURROUND) |
| RV1102 | 1-241-353-11 | RES, VAR, CARBON | 100K/100K (DBFB) |
| RV1103 | 1-241-351-11 | RES, VAR, SLIDE | 100K/100K (100Hz) |
| RV1104 | 1-241-351-11 | RES, VAR, SLIDE | 100K/100K (330Hz) |
| RV1105 | 1-241-351-11 | RES, VAR, SLIDE | 100K/100K (1KHz) |
| RV1106 | 1-241-351-11 | RES, VAR, SLIDE | 100K/100K (3.3KHz) |
| RV1107 | 1-241-351-11 | RES, VAR, SLIDE | 100K/100K (10KHz) |
| RV1108 | 1-241-352-11 | RES, VAR, CARBON | 100K/100K (BALANCE) |

< SWITCH >

| | | | |
|------|--------------|-----------------|----------------------|
| S601 | 1-554-303-21 | SWITCH, TACTILE | (1) |
| S602 | 1-554-303-21 | SWITCH, TACTILE | (2) |
| S603 | 1-554-303-21 | SWITCH, TACTILE | (3) |
| S604 | 1-554-303-21 | SWITCH, TACTILE | (4) |
| S605 | 1-554-303-21 | SWITCH, TACTILE | (5) |
| S606 | 1-554-303-21 | SWITCH, TACTILE | (6) |
| S607 | 1-554-303-21 | SWITCH, TACTILE | (7) |
| S608 | 1-554-303-21 | SWITCH, TACTILE | (8) |
| S609 | 1-554-303-21 | SWITCH, TACTILE | (9) |
| S610 | 1-554-303-21 | SWITCH, TACTILE | (0) |
| S611 | 1-554-303-21 | SWITCH, TACTILE | (SHIFT) |
| S612 | 1-554-303-21 | SWITCH, TACTILE | (BAND SELECT) |
| S613 | 1-554-303-21 | SWITCH, TACTILE | (ST/MUTE) |
| S614 | 1-554-303-21 | SWITCH, TACTILE | (DUAL MODE TUNING +) |
| S615 | 1-554-303-21 | SWITCH, TACTILE | (DUAL MODE TUNING -) |
| S619 | 1-554-303-21 | SWITCH, TACTILE | (MEMORY) |
| S636 | 1-554-303-21 | SWITCH, TACTILE | (TAPE) |
| S637 | 1-554-303-21 | SWITCH, TACTILE | (CD) |
| S638 | 1-554-303-21 | SWITCH, TACTILE | (TUNER) |
| S639 | 1-554-303-21 | SWITCH, TACTILE | (PHONO) |
| S640 | 1-554-303-21 | SWITCH, TACTILE | (VIDEO) |

< VIBRATOR >

| | | | |
|------|--------------|-------------------|-----------|
| X601 | 1-567-775-11 | VIBRATOR, CERAMIC | (4.19MHz) |
|------|--------------|-------------------|-----------|

* A-4345-918-A POWER AMP BOARD, COMPLETE

POWER AMP

POWER

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

< CAPACITOR >

| | | | | | |
|-------|--------------|---------|----------|-----|-----|
| C1201 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V |
| C1202 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1203 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1204 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1205 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C1206 | 1-124-122-11 | ELECT | 100uF | 20% | 50V |
| C1207 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V |
| C1208 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C1209 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V |
| C1210 | 1-136-163-00 | FILM | 0. 068uF | 5% | 50V |
| C1211 | 1-136-163-00 | FILM | 0. 068uF | 5% | 50V |
| C1220 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C1251 | 1-124-257-00 | ELECT | 2. 2uF | 20% | 50V |
| C1252 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1253 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C1254 | 1-124-477-11 | ELECT | 47uF | 20% | 25V |
| C1255 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C1256 | 1-124-122-11 | ELECT | 100uF | 20% | 50V |
| C1257 | 1-136-165-00 | FILM | 0. 1uF | 5% | 50V |
| C1260 | 1-136-163-00 | FILM | 0. 068uF | 5% | 50V |
| C1261 | 1-136-163-00 | FILM | 0. 068uF | 5% | 50V |

< DIODE >

| | | | |
|-------|--------------|-------|---------|
| D1201 | 8-719-987-63 | DIODE | 1N4148M |
| D1251 | 8-719-987-63 | DIODE | 1N4148M |

< IC >

| | | | |
|--------|--------------|----|-------------|
| IC1201 | 8-749-900-96 | IC | STK-4142MK2 |
|--------|--------------|----|-------------|

< COIL >

| | | |
|-------|--------------|----------------|
| L1201 | 1-420-872-00 | COIL, AIR CORE |
| L1251 | 1-420-872-00 | COIL, AIR CORE |

< TRANSISTOR >

| | | | |
|-------|--------------|------------|----------------|
| Q1201 | 8-729-140-84 | TRANSISTOR | 2SC1841-PAFAEA |
| Q1202 | 8-729-900-80 | TRANSISTOR | DTC114ES |
| Q1203 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE |
| Q1251 | 8-729-140-84 | TRANSISTOR | 2SC1841-PAFAEA |

< RESISTOR >

| | | | | | |
|-------|--------------|--------|-------|----|------|
| R1201 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1202 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R1203 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1204 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R1205 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| R1206 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |

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

| | | | | | |
|--------|--------------|------------------|-------|----|--------|
| R1207 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| R1208 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| △R1209 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W F |
| △R1210 | 1-217-151-00 | RES, METAL PLATE | | | 0. 22 |
| R1211 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1212 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R1213 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1214 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W |
| R1215 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W |
| R1216 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W |
| R1217 | 1-249-421-11 | CARBON | 2. 2K | 5% | 1/4W |
| R1218 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1219 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1220 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1221 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1227 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1228 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R1229 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R1230 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R1231 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1232 | 1-249-428-11 | CARBON | 8. 2K | 5% | 1/4W |
| R1238 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R1239 | 1-249-426-11 | CARBON | 5. 6K | 5% | 1/4W |
| R1251 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1252 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R1253 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1254 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R1255 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| R1256 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| R1257 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| R1258 | 1-249-425-11 | CARBON | 4. 7K | 5% | 1/4W |
| △R1259 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W F |
| △R1260 | 1-217-151-00 | RES, METAL PLATE | | | 0. 22 |
| R1261 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1262 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R1263 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R1268 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1269 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1270 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R1271 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |

* 1-641-708-11 POWER BOARD

1-533-217-31 HOLDER, FUSE

* 1-535-141-00 BASE POST 22MM (10MM PITCH) 4P

* 1-564-321-00 PIN, CONNECTOR 2P

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

POWER

SW

TC MAIN

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

< CAPACITOR >

| | | | |
|--------|--------------|---------|----------------|
| △C1301 | 1-161-744-00 | CERAMIC | 0.01uF 400V |
| C1314 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C1315 | 1-124-927-11 | ELECT | 4.7uF 20% 100V |
| C1316 | 1-124-910-11 | ELECT | 47uF 20% 50V |

< CONNECTOR >

| | | | |
|----------|--------------|------------------------------|--|
| * CN1301 | 1-564-509-11 | PLUG, CONNECTOR 6P | |
| CN1302 | 1-506-469-11 | CONNECTOR 4P, MALE | |
| * CN1350 | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P | |

< DIODE >

| | | | |
|-------|--------------|----------------|--|
| D1307 | 8-719-002-60 | DIODE UZL-33L | |
| D1309 | 8-719-014-66 | DIODE UZP-5.6B | |
| D1311 | 8-719-200-82 | DIODE 11ES2 | |

< TRANSISTOR >

| | | | |
|-------|--------------|-----------------------|--|
| Q1301 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
|-------|--------------|-----------------------|--|

< RESISTOR >

| | | | |
|-------|--------------|--------|--------------|
| R1303 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R1304 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |

| | | |
|----------------|----------|--|
| * 1-641-709-11 | SW BOARD | |
|----------------|----------|--|

< JACK >

| | | | |
|----------|--------------|-----------------------|--|
| * CNJ701 | 1-568-834-11 | SOCKET, CONNECTOR 15P | |
|----------|--------------|-----------------------|--|

< TRANSISTOR >

| | | | |
|------|--------------|---------------------|--|
| Q701 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q702 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q703 | 8-729-900-89 | TRANSISTOR DTC144ES | |

< RESISTOR >

| | | | |
|------|--------------|--------|--------------|
| R702 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R703 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W |
| R704 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W |
| R705 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R706 | 1-249-416-11 | CARBON | 820 5% 1/4W |

| | | | |
|------|--------------|--------|--------------|
| R707 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
|------|--------------|--------|--------------|

< SWITCH >

| | | | |
|------|--------------|----------------------|-----------------------------|
| S701 | 1-572-995-11 | SWITCH, PUSH (2 KEY) | |
| | | | (TAPE SELECT/DUBBING SPEED) |

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

| | | | |
|---|--------------|-------------------------|--|
| * | A-4345-914-A | TC MAIN BOARD, COMPLETE | |
|---|--------------|-------------------------|--|

| | | |
|--------------|------------------------------|--|
| 1-535-995-11 | JUMPER, FILM (WITH TERMINAL) | |
| 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |

< CAPACITOR >

| | | | |
|------|--------------|---------|-----------------|
| C400 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C401 | 1-136-157-00 | FILM | 0.022uF 5% 50V |
| C402 | 1-124-767-00 | ELECT | 2.2uF 20% 50V |
| C403 | 1-124-443-00 | ELECT | 100uF 20% 10V |
| C404 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C405 | 1-136-157-00 | FILM | 0.022uF 5% 50V |
| C406 | 1-124-767-00 | ELECT | 2.2uF 20% 50V |
| C407 | 1-124-443-00 | ELECT | 100uF 20% 10V |
| C408 | 1-130-479-00 | MYLAR | 0.0047uF 5% 50V |
| C409 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C411 | 1-124-925-11 | ELECT | 2.2uF 20% 100V |
| C413 | 1-124-472-11 | ELECT | 470uF 20% 10V |
| C415 | 1-124-257-00 | ELECT | 2.2uF 20% 50V |
| C416 | 1-126-163-11 | ELECT | 4.7uF 20% 50V |
| C417 | 1-124-465-00 | ELECT | 0.47uF 20% 50V |
| C418 | 1-124-907-11 | ELECT | 10uF 20% 50V |
| C419 | 1-124-907-11 | ELECT | 10uF 20% 50V |
| C420 | 1-124-907-11 | ELECT | 10uF 20% 50V |
| C421 | 1-162-284-31 | CERAMIC | 150PF 10% 50V |
| C422 | 1-136-273-91 | FILM | 75PF 5% 630V |
| C423 | 1-136-271-00 | FILM | 56PF 5% 630V |
| C424 | 1-162-280-31 | CERAMIC | 82PF 10% 50V |
| C441 | 1-162-282-31 | CERAMIC | 100PF 10% 50V |
| C442 | 1-164-159-11 | CERAMIC | 0.1uF 50V |
| C443 | 1-124-903-11 | ELECT | 1uF 20% 50V |
| C446 | 1-162-282-31 | CERAMIC | 100PF 10% 50V |
| C500 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C501 | 1-136-157-00 | FILM | 0.022uF 5% 50V |
| C502 | 1-124-767-00 | ELECT | 2.2uF 20% 50V |
| C503 | 1-124-443-00 | ELECT | 100uF 20% 10V |
| C504 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C505 | 1-136-157-00 | FILM | 0.022uF 5% 50V |
| C506 | 1-124-767-00 | ELECT | 2.2uF 20% 50V |
| C507 | 1-124-443-00 | ELECT | 100uF 20% 10V |
| C508 | 1-130-479-00 | MYLAR | 0.0047uF 5% 50V |
| C509 | 1-162-289-31 | CERAMIC | 390PF 10% 50V |
| C511 | 1-124-925-11 | ELECT | 2.2uF 20% 100V |
| C515 | 1-124-257-00 | ELECT | 2.2uF 20% 50V |
| C516 | 1-126-163-11 | ELECT | 4.7uF 20% 50V |
| C517 | 1-124-465-00 | ELECT | 0.47uF 20% 50V |
| C518 | 1-124-907-11 | ELECT | 10uF 20% 50V |
| C520 | 1-124-907-11 | ELECT | 10uF 20% 50V |

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

TC MAIN

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|--------------------------------|------------|-----|------|
| C521 | 1-162-284-31 | CERAMIC | 150PF | 10% | 50V |
| C522 | 1-136-273-91 | FILM | 75PF | 5% | 630V |
| C523 | 1-136-271-00 | FILM | 56PF | 5% | 630V |
| C524 | 1-162-280-31 | CERAMIC | 82PF | 10% | 50V |
| C525 | 1-136-562-11 | FILM | 0.0082uF | 5% | 630V |
| C526 | 1-130-482-00 | MYLAR | 0.0082uF | 5% | 50V |
| C527 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |
| C528 | 1-130-482-00 | MYLAR | 0.0082uF | 5% | 50V |
| C529 | 1-130-478-00 | MYLAR | 0.0039uF | 5% | 50V |
| C530 | 1-130-478-00 | MYLAR | 0.0039uF | 5% | 50V |
| C531 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C532 | 1-124-925-11 | ELECT | 2.2uF | 20% | 100V |
| C533 | 1-124-556-11 | ELECT | 2200uF | 20% | 16V |
| C534 | 1-124-120-11 | ELECT | 220uF | 20% | 25V |
| C535 | 1-124-927-11 | ELECT | 4.7uF | 20% | 100V |
| C536 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C540 | 1-124-472-11 | ELECT | 470uF | 20% | 10V |
| C541 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C542 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C546 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C560 | 1-124-472-11 | ELECT | 470uF | 20% | 10V |
| < CONNECTOR > | | | | | |
| * CN400 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| * CN401 | 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| * CN402 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| * CN405 | 1-560-061-00 | PIN, CONNECTOR 3P | | | |
| * CN407 | 1-560-060-00 | PIN, CONNECTOR 2P | | | |
| * CN410 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| * CN411 | 1-564-508-11 | PLUG, CONNECTOR 5P | | | |
| * CN412 | 1-564-706-11 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| < DIODE > | | | | | |
| D500 | 8-719-987-63 | DIODE | 1N4148M | | |
| D501 | 8-719-987-63 | DIODE | 1N4148M | | |
| D502 | 8-719-987-63 | DIODE | 1N4148M | | |
| D503 | 8-719-987-63 | DIODE | 1N4148M | | |
| D504 | 8-719-987-63 | DIODE | 1N4148M | | |
| D505 | 8-719-987-63 | DIODE | 1N4148M | | |
| D506 | 8-719-987-63 | DIODE | 1N4148M | | |
| D507 | 8-719-987-63 | DIODE | 1N4148M | | |
| < IC > | | | | | |
| IC400 | 8-759-111-44 | IC | uPC4570C-1 | | |
| IC401 | 8-759-111-44 | IC | uPC4570C-1 | | |
| IC402 | 8-759-000-49 | IC | MC14066BCP | | |
| IC404 | 8-752-060-64 | IC | CXA1198AP | | |
| IC501 | 8-759-140-11 | IC | uPD4011BC | | |

| Ref. No. | Part No. | Description | Remark | | |
|----------------|--------------|-------------|-------------|------|------|
| IC502 | 8-759-040-01 | IC | MC14001BCP | | |
| IC503 | 8-759-140-11 | IC | uPD4011BC | | |
| IC515 | 8-759-604-86 | IC | M5F7807 | | |
| IC516 | 8-759-604-90 | IC | M5F7907 | | |
| < COIL > | | | | | |
| L400 | 1-410-780-11 | INDUCTOR | | 27mH | |
| L500 | 1-410-780-11 | INDUCTOR | | 27mH | |
| < TRANSISTOR > | | | | | |
| Q400 | 8-729-900-89 | TRANSISTOR | DTC144ES | | |
| Q402 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q403 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q500 | 8-729-900-89 | TRANSISTOR | DTC144ES | | |
| Q502 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q503 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | | |
| Q504 | 8-729-194-57 | TRANSISTOR | 2SC945-P | | |
| Q505 | 8-729-194-57 | TRANSISTOR | 2SC945-P | | |
| Q506 | 8-729-281-52 | TRANSISTOR | 2SC1815-Y | | |
| Q507 | 8-729-900-61 | TRANSISTOR | DTA114ES | | |
| Q508 | 8-729-900-80 | TRANSISTOR | DTC114ES | | |
| Q509 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | | |
| Q511 | 8-729-900-65 | TRANSISTOR | DTA144ES | | |
| Q512 | 8-729-900-89 | TRANSISTOR | DTC144ES | | |
| < RESISTOR > | | | | | |
| R417 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R418 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R431 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R432 | 1-247-868-11 | CARBON | 36K | 5% | 1/4W |
| R433 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R436 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R437 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R438 | 1-247-874-11 | CARBON | 62K | 5% | 1/4W |
| R439 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R441 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W |
| R442 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R443 | 1-247-868-11 | CARBON | 36K | 5% | 1/4W |
| R446 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R450 | 1-247-868-11 | CARBON | 36K | 5% | 1/4W |
| R451 | 1-247-872-11 | CARBON | 51K | 5% | 1/4W |
| R452 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R453 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R517 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R518 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R527 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R532 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R538 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W |
| R539 | 1-249-392-11 | CARBON | 8.2 | 5% | 1/4W |

TC MAIN

VOL

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------|--------|
| R540 | 1-249-392-11 | CARBON 8.2 5% 1/4W | |

< VARIABLE RESISTOR >

| | | | |
|-------|--------------|-----------------------|--|
| RV400 | 1-230-496-11 | RES, ADJ, CARBON 10K | |
| RV401 | 1-230-496-11 | RES, ADJ, CARBON 10K | |
| RV402 | 1-230-496-11 | RES, ADJ, CARBON 10K | |
| RV403 | 1-230-499-11 | RES, ADJ, CARBON 100K | |
| RV500 | 1-230-496-11 | RES, ADJ, CARBON 10K | |

| | | | |
|-------|--------------|-----------------------|--|
| RV501 | 1-230-496-11 | RES, ADJ, CARBON 10K | |
| RV502 | 1-230-496-11 | RES, ADJ, CARBON 10K | |
| RV503 | 1-230-499-11 | RES, ADJ, CARBON 100K | |
| RV504 | 1-230-495-11 | RES, ADJ, CARBON 2.2K | |
| RV505 | 1-230-495-11 | RES, ADJ, CARBON 2.2K | |

< RELAY >

| | | | |
|-------|--------------|-------|--|
| RY400 | 1-515-614-11 | RELAY | |
|-------|--------------|-------|--|

< TRANSFORMER >

| | | | |
|------|--------------|-------------------------------|--|
| T500 | 1-433-349-11 | TRANSFORMER, BIAS OSCILLATION | |
|------|--------------|-------------------------------|--|

| | | | |
|---|--------------|-----------|--|
| * | 1-641-706-11 | VOL BOARD | |
|---|--------------|-----------|--|

< CAPACITOR >

| | | | |
|-------|--------------|------------------------|--|
| C1120 | 1-161-379-00 | CERAMIC 0.01uF 20% 25V | |
|-------|--------------|------------------------|--|

< VARIABLE RESISTOR >

| | | | |
|--------|--------------|-------------------------------------|--|
| RV1109 | 1-241-350-11 | RES, VAR, CARBON 100K/100K (VOLUME) | |
|--------|--------------|-------------------------------------|--|

MISCELLANEOUS

| | | | |
|-----------|--------------|------------------------------------|--|
| 11 | 1-590-459-11 | WIRE, FLAT TYPE (11 CORE) | |
| 12 | 1-590-578-11 | WIRE, FLAT TYPE (19 CORE) | |
| △15 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E3, MY) | |
| △59 | 1-690-708-11 | CORD (WITH CONNECTOR) | |
| △CNP13011 | 575-653-11 | CORD, POWER (E, MY) | |
| △CNP13011 | 690-608-11 | CORD, POWER (WITH CONNECTOR) (AUS) | |
| △F1301 | 1-532-237-00 | FUSE, TIME LAG (3.15A) | |
| △F1302 | 1-532-237-00 | FUSE, TIME LAG (3.15A) | |
| △F1303 | 1-532-203-00 | FUSE (2.0A) | |
| △F1304 | 1-532-203-00 | FUSE (2.0A) | |
| HE1 | 1-543-673-11 | HEAD, MAGNETIC (ERASE) (DECK B) | |
| HP1 | 1-543-319-11 | HEAD, MAGNETIC (PB) (DECK A) | |
| HRP1 | 1-543-319-11 | HEAD, MAGNETIC (REC/PB) (DECK B) | |
| M1 | X-3362-377-1 | MOTOR (WH) ASSY | |
| △S1301 | 1-572-267-61 | SWITCH, PUSH (AC POWER) (1 KEY) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|
| △T1301 | 1-450-311-11 | TRANSFORMER, POWER | |
| △VS1301 | 1-570-046-21 | SWITCH, VOLTAGE CHANGE | |

ACCESSORIES & PACKING MATERIALS

| | | | |
|---|--------------|-------------------------------------|--|
| | 1-465-962-11 | COMMANDER (STANDARD TYPE) (RM-S171) | |
| * | 3-376-136-01 | CUSHION (HALF) | |
| * | 3-703-713-41 | STICKER, SONY SYMBOL (10) | |
| | 4-921-934-01 | SHEET, PROTECTION | |
| | 4-941-762-01 | COVER BATTERY (RM-S171) | |
| * | 4-949-428-11 | CUSHION | |

HARDWARE LIST

| | | |
|-----|--------------|-----------------------------|
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| #2 | 7-685-133-19 | SCREW +P 2.6X6 TYPE2 |
| #3 | 7-621-775-20 | SCREW +B 2.6X5 |
| #4 | 7-685-135-19 | SCREW +BTP 2.6X10 TYPE2 N-S |
| #5 | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT |
| #6 | 7-623-921-01 | RING, RETAINING, CAPSTAN |
| #7 | 7-682-547-04 | SCREW +BVTT 3X6 (S) |
| #8 | 7-688-001-01 | W 2, SMALL |
| #9 | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S |
| #10 | 7-685-650-79 | SCREW +BVTP 3X16 TYPE2 IT-S |

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