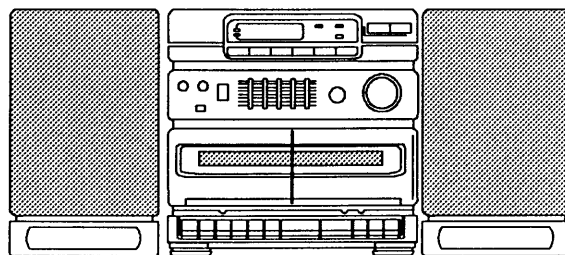


**AIWA®****CA-W70**

# SERVICE MANUAL



CARRY COMPONENT SYSTEM

• BASIC VIDEO MECHANISM : TN - 21ZSW

• TYPE. H,C,E,K,Z

## SPECIFICATIONS

### TUNER SECTION (H, C MODELS)

#### <FM section>

Frequency range 87.5 MHz to 108 MHz  
Antenna Whip antenna

#### <SW2 section on H model>

Frequency range 7.1 MHz to 21.85 MHz  
Antenna Whip antenna

#### <SW1 section on H model>

Frequency range 2.3 MHz to 6.2 MHz  
Antenna Ferrite bar antenna

#### <MW section on H model>

Frequency range 531 (530) kHz to 1,602 (1,600) kHz/9 kHz (10 kHz)

Antenna Ferrite bar antenna

#### <AM section on C model>

Frequency range 530 kHz to 1,710 kHz/10 kHz  
Antenna Ferrite bar antenna

### AMPLIFIER SECTION

Power output 5 W + 5 W (4 ohms, EIAJ)  
Max.: 7 W + 7 W

Input sensitivity (load impedance)  
MIC: 2 mV (10 kohms)  
CD/LINE IN: 300 mV (47 kohms)

Power requirements H: AC 110-120 V/220-240 V, selectable, 50/60 Hz  
C: AC 120 V, 60 Hz

Power consumption 20 W

### TUNER SECTION (E, K, Z MODELS)

#### <FM section>

Frequency range 87.5 MHz to 108 MHz  
Antenna Whip antenna

#### <LW section>

Frequency range 146 kHz to 281 kHz  
Antenna Ferrite bar antenna

#### <MW section>

Frequency range 531 kHz to 1,602 kHz/9 kHz  
Antenna Ferrite bar antenna

#### <SW section>

Frequency range 5.95 MHz to 15.6 MHz  
Antenna Whip antenna

### AMPLIFIER SECTION

Power output 5 W + 5 W (4 ohms, EIAJ)  
Input sensitivity (load impedance)

MIC: 2 mV (10 kohms)  
CD/LINE IN: 300 mV (47 kohms)

Power requirements E, Z: AC 220 V, 50/60 Hz  
K: AC 240 V, 50/60 Hz

Power consumption 25 W

### CASSETTE DECK SECTION

Track format 4 tracks, 2 channels  
Frequency response Normal tape: 50-12,000 Hz  
Signal to noise ratio 50 dB (Normal tape)  
Wow and flutter 0.2% (WRMS)  
Tape speed 4.8 cm/sec (1 7/8 ips)  
Rewind time 120 sec (C-60)  
Fast forward time 120 sec (C-60)  
Recording system AC bias  
Erasure system Magnetic erase  
Motor DC motor x 1  
Heads Record/playback head x 1 (deck 1)  
Erasure head x 1 (deck 1)  
Playback head x 1 (deck 2)

### COMMON SECTION

Dimensions (WxHxD) 580 x 250 x 210 mm  
(22 7/8 x 9 7/8 x 8 3/8 in.)  
Weight 5.8 kg (12.8 lbs)  
(Including batteries)

### SPEAKER

Cabinet type 2-way Bass reflex type  
Speaker 120 mm (4 3/4 in.)  
cone type woofer  
27 mm (1 1/8 in.)  
ceramic type tweeter  
Impedance 4 ohms  
Allowable max. input 12 W  
Dimensions (WxHxD) 152 x 225 x 175 mm x 2  
(6 x 8 7/8 x 7 in.)  
Weight 1.2 kg x 2 (2.7 lbs)

• Design and specifications are subject to change without notice.

**AIWA Co., Ltd.****Tokyo Japan**

Printed in Japan

DISASSEMBLY INSTRUCTIONS

1. "Cabinet, Rear" Removal (See Figure – 1)
- 1) Remove 7 screws (A×2, B×5) and remove "Cabinet, Rear".

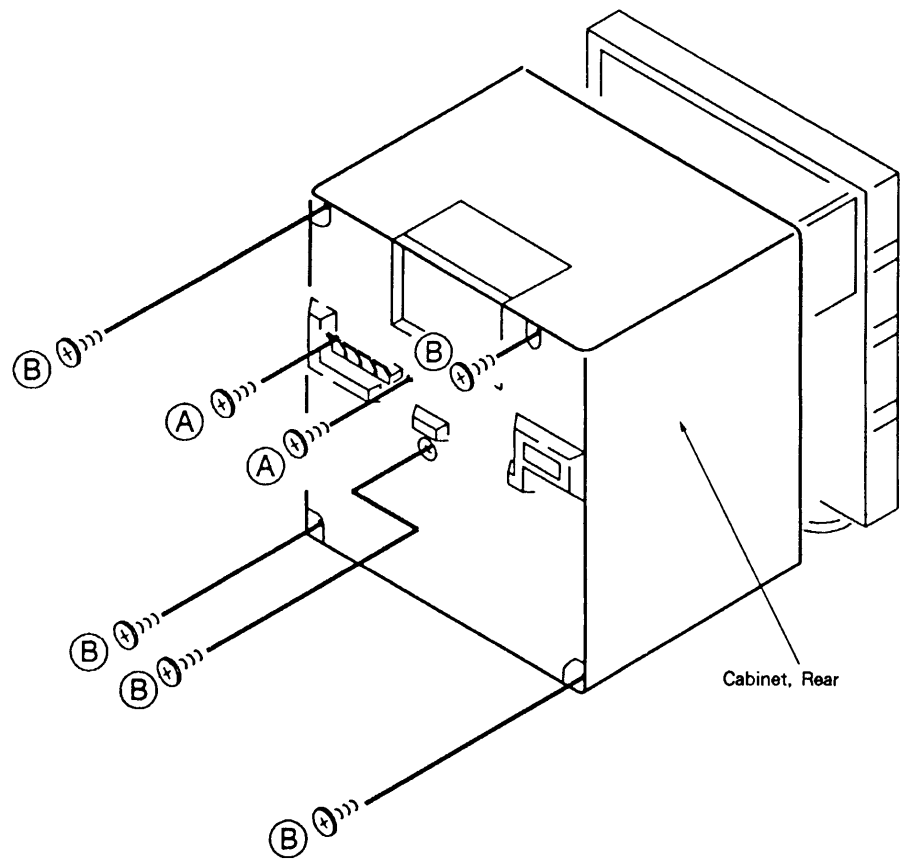


Fig – 1

■ ACCESSORIES/PACKAGE LIST

| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.       | DESCRIPTION                    | COMMON<br>MODEL | Q,TY |
|------------------------|-------------|----------------|--------------------------------|-----------------|------|
|                        | 1           | S9-238-650-110 | INSTRUCTION BOOKLET H/C (H, C) |                 | 1    |
|                        | 2           | S9-238-650-200 | INSTRUCTION BOOKLET (E, K, Z)  |                 | 1    |
|                        | 3           | S1-171-100-000 | POWER CORD SET 117 (H)         |                 | 1    |
|                        | 4           | S1-171-100-010 | POWER CORD SET 117V (C)        |                 | 1    |
|                        | 5           | S2-201-100-000 | POWER CORD SET220 (E, Z)       |                 | 1    |
|                        | 6           | S0-001-200-010 | POWER CORD SET240 (K)          |                 | 1    |

# ELECTRICAL MAIN PARTS LIST

REF. NO. PART NO. DESCRIPTION

## ===IC===

87-020-828-010 IC, BA3416BL  
S4-038-220-000 IC, BA3822LS  
S4-054-120-000 IC, BA5412  
S4-245-550-000 IC, CD4555BE  
  
81-504-628-010 IC, LA3220  
S2-240-130-000 IC, MC14013BCP  
87-020-356-010 IC, TA7358AP  
S8-381-320-000 IC, TA8132AN  
  
S8-381-480-000 IC, TA8148S  
S8-493-070-000 IC, TC9307AF-008

## ===TRANSISTOR===

S9-011-800-180 FET, 2SK118-R  
89-311-623-010 TRANSISTOR, 2SC1162C  
S3-141-700-080 TRANSISTOR, 2SC1417H, G  
89-328-785-010 TRANSISTOR, 2SC2878B  
  
S3-045-800-030 TRANSISTOR, 2SC458C  
S7-805-000-020 TRANSISTOR, PE8050B, C, D  
S7-855-000-020 TRANSISTOR, PE8550B, C

## ===DIODE===

S0-254-010-000 DIODE, 1N5401BL  
S0-240-010-000 DIODE, 1N4001B  
S0-041-480-000 DIODE, 1N4148  
S0-001-010-000 DIODE, 1SV101  
  
S0-001-490-000 DIODE, 1SV149B  
S0-000-000-000 DIODE, CDG00  
S0-101-201-200 ZENER 05AZ12VV  
S0-100-471-200 ZENER 05AZ4. 7V  
  
S0-100-681-200 ZENER 05AZ6. 8V

## ===MAIN CIRCUIT BOARD SECTION===

C305 ★87-010-263-010 CAP, ELECT 100 10  
C306 ★87-010-263-010 CAP, ELECT 100 10  
C311 ★87-010-412-010 CAP, ELECT 10-25V  
C312 ★87-010-412-010 CAP, ELECT 10-25V  
  
C313 ★87-010-248-010 CAP, ELECT 220 10V  
C314 ★88-333-210-010 CAP, ELECT 22 10V  
C315 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C403 ★87-010-404-010 CAP, ELECT 4. 7 50V  
  
C404 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C405 ★87-010-374-010 CAP, ELECT 47 10V  
C406 ★87-010-374-010 CAP, ELECT 47 10V  
C407 ★87-010-412-010 CAP, ELECT 10-25V  
  
C408 ★87-010-412-010 CAP, ELECT 10-25V  
C409 ★87-010-412-010 CAP, ELECT 10-25V  
C410 ★87-010-412-010 CAP, ELECT 10-25V  
C413 ★87-010-374-010 CAP, ELECT 47 10V  
  
C414 ★87-010-263-010 CAP, ELECT 100 10  
C415 ★87-010-248-010 CAP, ELECT 220 10V  
C416 ★87-010-221-010 CAP, ELECT 470 10V  
C423 ★87-010-404-010 CAP, ELECT 4. 7 50V  
  
C424 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C602 ★87-010-400-010 CAP, ELECT 0. 47 50V  
C604 ★87-010-400-010 CAP, ELECT 0. 47 50V  
C605 ★88-333-210-010 CAP, ELECT 22 10V  
  
C701 ★87-015-962-010 CAP, ELECT 0. 33 50V  
C702 ★87-015-962-010 CAP, ELECT 0. 33 50V  
C725 ★87-010-412-010 CAP, ELECT 10-25V  
C726 ★87-010-412-010 CAP, ELECT 10-25V  
  
C803 ★87-015-965-010 CAP, ELECT 1 50  
C804 ★87-015-965-010 CAP, ELECT 1 50  
C807 ★87-010-380-010 CAP, ELECT 47 16V  
C808 ★87-010-380-010 CAP, ELECT 47 16V  
  
C809 ★87-010-112-010 CAP, ELECT 100 16V  
C812 ★87-010-380-010 CAP, ELECT 47 16V  
C813 ★87-010-380-010 CAP, ELECT 47 16V

REF. NO. PART NO. DESCRIPTION

C814 ★87-010-237-010 CAP, ELECT 1000 16V  
C815 ★87-010-237-010 CAP, ELECT 1000 16V  
C818 ★87-010-389-010 CAP, ELECT 2200 25V  
C906 ★87-010-380-010 CAP, ELECT 47 16V  
  
C910 ★87-010-263-010 CAP, ELECT 100 10  
C911 ★87-010-263-010 CAP, ELECT 100 10  
C913 ★87-010-221-010 CAP, ELECT 470 10V  
C914 ★87-010-265-010 CAP, ELECT 33 16V  
  
J801 ★S0-535-083-500 HP JACK HTJ-035-08 (PHONES)  
J802 ★S0-535-093-500 HP JACK HTF-035-09 (MIC)  
J803 ★S0-580-103-500 HP JACK H38-010 (CD/LINE IN)  
J804 ★S0-401-040-000 SPEAKER JACK HSP-1 (SPEAKERS)  
  
VR401 ★S1-030-850-000 SFR 10K  
VR901 ★S2-020-850-000 SFR 2K  
VR902 ★S5-010-850-000 SFR 500  
SW301 ★S0-062-200-000 REC SW 6P2T (REC)  
  
SW401 ★S2-300-711-000 SLIDE SW MSK2X3 RG (OSC)  
SW701 ★S0-000-430-000 LEVER SW FLP-A-43 (FUNCTION)  
SW702 ★S2-203-000-000 PB SW PS22F03 W/L0 (DUBBING SPEED)  
T401 ★S0-036-300-100 IFT 4A-363R (B)  
  
VR801 ★S1-040-010-000 VR 100KB (BALANCE)  
VR802 ★S5-030-020-000 VR 50KAX2 (VOLUME)

## ===TUNER CIRCUIT BOARD SECTION===

BP201 ★S1-000-080-010 BPF BFM88L  
C123 ★87-010-404-010 CAP, ELECT 4. 7 50V (C)  
C229 ★87-010-221-010 CAP, ELECT 470 10V  
C237 ★87-010-404-010 CAP, ELECT 4. 7 50V  
  
C241 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C242 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C248 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C249 ★87-010-404-010 CAP, ELECT 4. 7 50V  
  
CF201 ★S0-003-660-000 FILTER CERA C366-A  
CF202 ★S0-004-500-000 FILTER CERA SFU450  
CF203 ★S0-003-660-000 FILTER CERA C366-A  
CF204 ★S6-004-560-000 CERA RES CSB456F18  
  
L201 ★S0-400-450-080 FM COIL 4T, 4. 5MM  
L202 ★S0-300-500-080 FM COIL 3T, 5MM  
L203 ★S0-100-260-000 INDUCTOR 1UH (EXCEPT C)  
L204 ★S0-190-411-000 SW COIL 19:4 (H)  
  
L204 ★S2-552-600-120 LW COIL 255:26, 120 (E, K, Z)  
L205 ★S0-802-501-000 MW COIL 80:25  
L206 ★S0-045-000-000 IFT KM457R (H)  
L206 ★S0-045-100-000 IFT KM451R (E, K, Z)  
  
L207 ★S0-100-140-000 INDUCTOR 100UH  
T201 ★S0-012-700-100 IFT 7A127N, 7A5682, F3187, 7A5120  
T202 ★S0-103-800-100 IFT 7A-1038R (H)  
T202 ★S0-061-100-000 IFT 1A611R (E, K, Z)  
  
T203 ★S0-061-200-100 IFT 1A612R  
T204 ★S0-045-800-000 IFT KM458R (H)  
T204 ★S0-045-200-000 IFT KM452R (E, K, Z)  
T205 ★S0-022-400-100 IFT 4A-224R  
  
TC201 ★S2-101-690-000 TRIMMER TZ03T110FR169  
TC202 ★S2-101-690-000 TRIMMER TZ03T110FR169 (H)  
TC202 ★S2-001-690-000 TRIMMER TZ03R300FR169 (E, K, Z)  
TC203 ★S2-101-690-000 TRIMMER TZ03T110FR169  
  
TC204 ★S2-101-690-000 TRIMMER TZ03T110FR169 (EXCEPT C)

## ===EQ CIRCUIT BOARD SECTION===

C703 ★87-015-962-010 CAP, ELECT 0. 33 50V  
C707 ★87-015-965-010 CAP, ELECT 1 50  
C711 ★87-015-965-010 CAP, ELECT 1 50  
C715 ★87-015-962-010 CAP, ELECT 0. 33 50V  
  
C719 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C720 ★87-010-404-010 CAP, ELECT 4. 7 50V  
C728 ★87-010-248-010 CAP, ELECT 220 10V  
VR701 ★S5-030-000-220 SLIDE VR 50KB (100Hz)

| REF. NO. | PART NO.        | DESCRIPTION           |
|----------|-----------------|-----------------------|
| VR702    | ★S5-030-000-220 | SLIDE VR 50KB(350Hz)  |
| VR703    | ★S5-030-000-220 | SLIDE VR 50KB(1kHz)   |
| VR704    | ★S5-030-000-220 | SLIDE VR 50KB(3.5kHz) |
| VR705    | ★S5-030-000-220 | SLIDE VR 50KB(10kHz)  |

#### ==CPU CIRCUIT BOARD SECTION==

|        |                 |   |
|--------|-----------------|---|
| C103   | ★87-010-248-010 | CAP, ELECT 220 10V                        |
| C107   | ★87-010-400-010 | CAP, ELECT 0.47 50V                       |
| C109   | ★87-010-265-010 | CAP, ELECT 33 16V                         |
| C112   | ★87-010-400-010 | CAP, ELECT 0.47 50V                       |
| C113   | ★87-010-265-010 | CAP, ELECT 33 16V                         |
| C114   | ★87-015-961-010 | CAP, ELECT 0.1 50                         |
| C118   | ★88-333-210-010 | CAP, ELECT 22 10V                         |
| CY101  | ★S4-150-000-000 | X'TAL KF-38R5                             |
| D212   | ★S0-024-202-050 | LED LN-242-RPH RED(FM STEREO)             |
| D907   | ★S0-024-202-050 | LED LN-242-RPH RED(POWER)                 |
| L101   | ★S0-100-140-000 | INDUCTOR 100UH                            |
| L102   | ★S0-102-250-000 | INDUCTOR 220UH                            |
| L103   | ★S0-102-250-000 | INDUCTOR 220UH                            |
| L104   | ★S0-101-870-000 | INDUCTOR 1.8MMH                           |
| L105   | ★S0-100-140-000 | INDUCTOR 100UH                            |
| LCD101 | ★S0-094-290-000 | LCD DISPLAY BU9429(DISPLAY)<br>(EXCEPT C) |
| LCD101 | ★S0-093-640-010 | LCD DISPLAY BU9364AZ(DISPLAY)(C)          |
| SM1    | ★S0-083-000-000 | TACT SW(FM MODE)                          |
| SM2    | ★S0-083-000-000 | TACT SW(UP▲)                              |
| SM3    | ★S0-083-000-000 | TACT SW(FAST TUNING)                      |
| SM4    | ★S0-083-000-000 | TACT SW(▼DOWN)                            |
| SM5    | ★S0-083-000-000 | TACT SW(3)                                |
| SM6    | ★S0-083-000-000 | TACT SW(2)                                |
| SM7    | ★S0-083-000-000 | TACT SW(1)                                |
| SM8    | ★S0-083-000-000 | TACT SW(MEMORY)                           |
| SM9    | ★S0-083-000-000 | TACT SW(5)                                |

| REF. NO. | PART NO.        | DESCRIPTION                 |
|----------|-----------------|-----------------------------|
| SM10     | ★S0-083-000-000 | TACT SW(4)                  |
| SM11     | ★S0-083-000-000 | TACT SW(BAND)               |
| SW101    | ★S2-200-511-000 | SLIDE SW SK22F03G5(AM STEP) |
| T101     | ★S0-027-900-000 | IFT 5M7A279R                |

#### ==POWER CIRCUIT BOARD SECTION==

|       |                 |                          |
|-------|-----------------|--------------------------|
| C905  | ★87-010-388-010 | CAP, ELECT 1000 25V      |
| △F901 | ★S0-315-100-000 | FUSE 3.15A, 125V, 5-20MM |

#### ===BATT-1 CIRCUIT BOARD SECTION===

#### ===BATT-2 CIRCUIT BOARD SECTION===

#### ===BATT-3 CIRCUIT BOARD SECTION===

#### ===MISCELLANEOUS===

|        |                 |                                   |
|--------|-----------------|-----------------------------------|
| C908   | ★87-010-112-010 | CAP, ELECT 100 16V                |
| △J901  | ★S1-171-000-000 | AC SOCKET 117V. APP(H, C)         |
| △J901  | ★S2-201-000-000 | AC SOCKET 220V VDE(E, K, Z)       |
| EH     | S6-209-100-080  | E. HEAD PH-K380-MS1-2A            |
| PH     | S6-201-010-750  | P. HEAD RP-7442BS-0951            |
| RPH    | S6-201-010-750  | P. HEAD RP-7442BS-0951            |
| M1     | S6-002-020-190  | MOTOR DECK EG530YD-9B(DECK MOTOR) |
| △PT101 | ★S4-600-040-700 | POWER TRANSFORMER V1CA4N(H)       |
| △PT101 | ★S4-100-040-400 | POWER TRANSFORMER V1CA4C(C)       |
| △PT101 | ★S4-400-040-800 | POWER TRANSFORMER V1CA4B(K)       |
| △PT101 | ★S4-200-041-000 | POWER TRANSFORMER V1CA4E(E, Z)    |
| SP101  | ★S5-040-080-100 | SPEAKER 120mm 4ohm(Lch)(WOOFER)   |
| SP102  | ★S5-040-080-100 | SPEAKER 120mm 4ohm(Rch)(WOOFER)   |
| SP103  | S3-270-010-000  | SPEAKER 27mm(Lch)(TWEETER)        |
| SP104  | S3-270-010-000  | SPEAKER 27mm(Rch)(TWEETER)        |
| △SW901 | ★S1-200-000-010 | SLIDE SW SS-12J01M(AC VOLTAGE)(H) |
| SW1    | S6-401-011-520  | LEAF SW MSW-1541F(DECK2, PLAY)    |
| SW2    | S6-401-011-610  | LEAF SW MSW-1115RK(MOTOR)         |
| SW3    | S6-401-011-520  | LEAF SW MSW-1541F(DECK1, PLAY)    |

## TRANSISTOR ILLUSTRATION



E C B

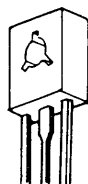
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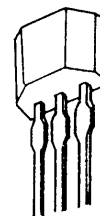
PE8050

PE8550



E C B

2SC1162

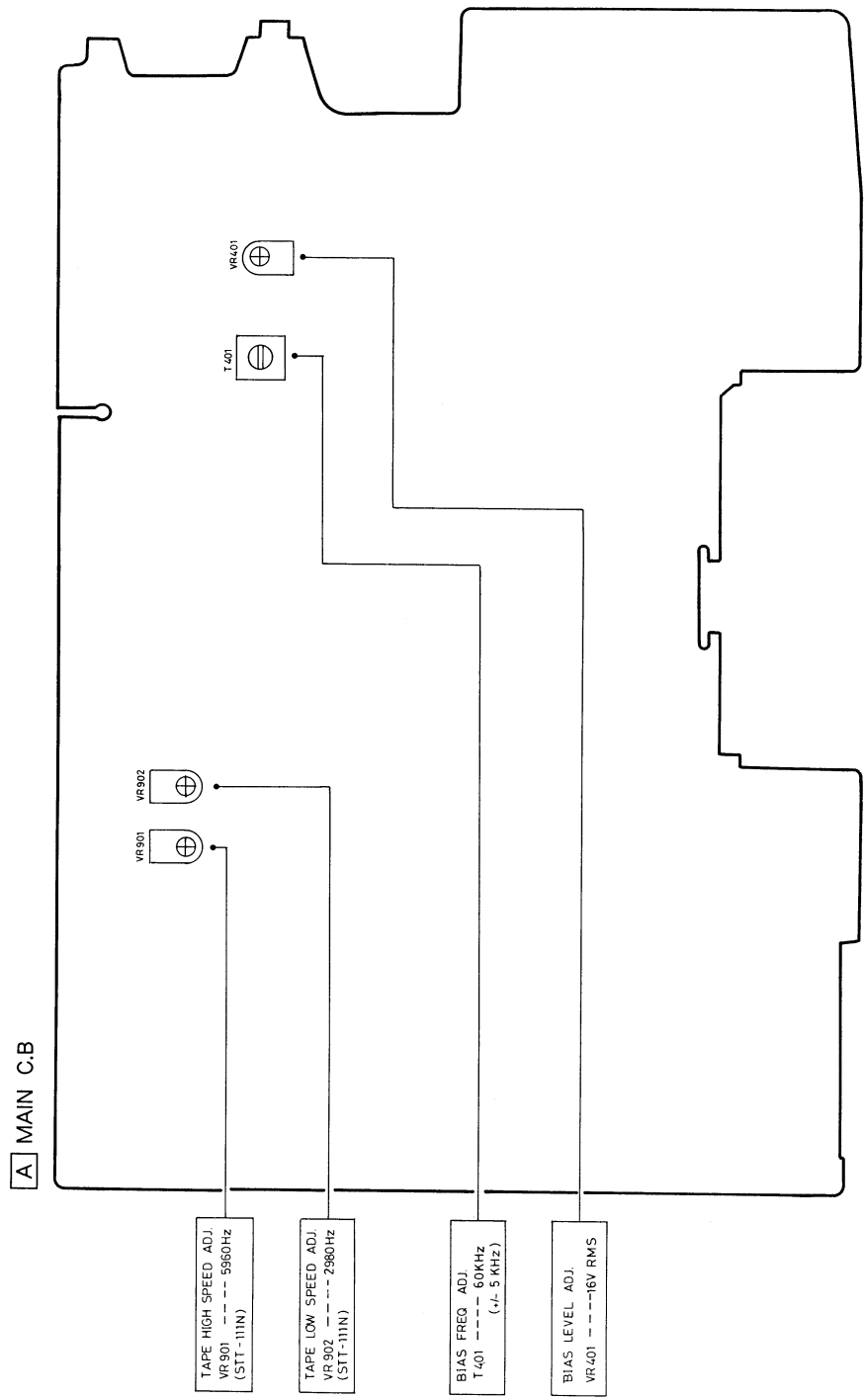


D G S

2SK118

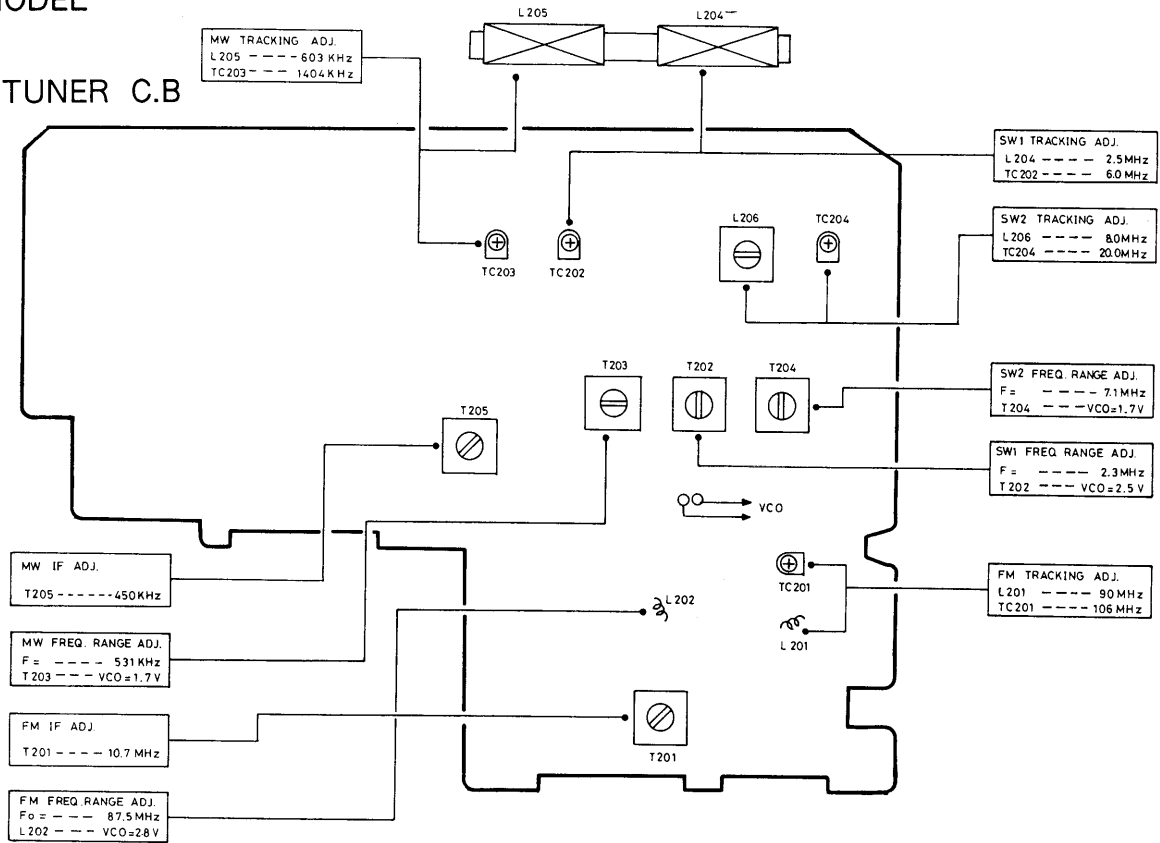
<RADIO SECTION>

|                        |   |
|------------------------|---|
| Sensitivity            |   |
| (IHF, THD 3%)          | (H MODEL)                               |
| (S/N 10dB)             | FM Less than 22dB (at 98MHz)            |
| (S/N 10dB)             | SW1 Less than 45dB (at 4.5MHz)          |
| (S/N 10dB)             | SW2 Less than 31dB (at 15MHz)           |
| (S/N 10dB)             | AM (MW) Less than 60dB (at 1000kHz)     |
| (C MODEL)              |   |
| (IHF, THD 3%)          | FM Less than 22dB (at 98.1MHz)          |
| (S/N 10dB)             | AM (MW) Less than 54dB (at 1000kHz)     |
| (E, K, Z MODELS)       |   |
| (IHF, THD 3%)          | FM Less than 22dB (at 98MHz)            |
| (S/N 10dB)             | AM (MW) Less than 54dB (at 999kHz)      |
| Intermediate frequency |   |
|                        | LW Less than 64dB (at 209kHz)           |
|                        | FM 10.7 ± 0.3MHz                        |
| Stereo separation      |   |
|                        | AM (MW) 450kHz                          |
|                        | FM More than 24dB                       |
| <TAPE SECTION>         |   |
| Record bias frequency  |   |
|                        | : 55 ± 5kHz                             |
| Erasing ratio          |   |
|                        | : More than 30dB                        |
| Distortion             |   |
|                        | : Less than 3% (PB)                     |
|                        | : Less than 7% (REC/PB)                 |
| Signal noise ratio     |   |
|                        | : More than 35dB (PB)                   |
|                        | : More than 30dB (REC/PB)               |
| Noise level            |   |
|                        | : Less than 40mV (VOL. MAX.)            |
| Wow&flutter            |   |
|                        | : Less than 0.35% (JIS • RMS) (DECK1/2) |
| Take up torque         |   |
|                        | : 30~60g-cm (DECK1/2)                   |
| F.F.&rewind torque     |   |
|                        | : 45~140g-cm (DECK1/2)                  |
| Back tension           |   |
|                        | : 2~5g-cm (DECK1/2)                     |



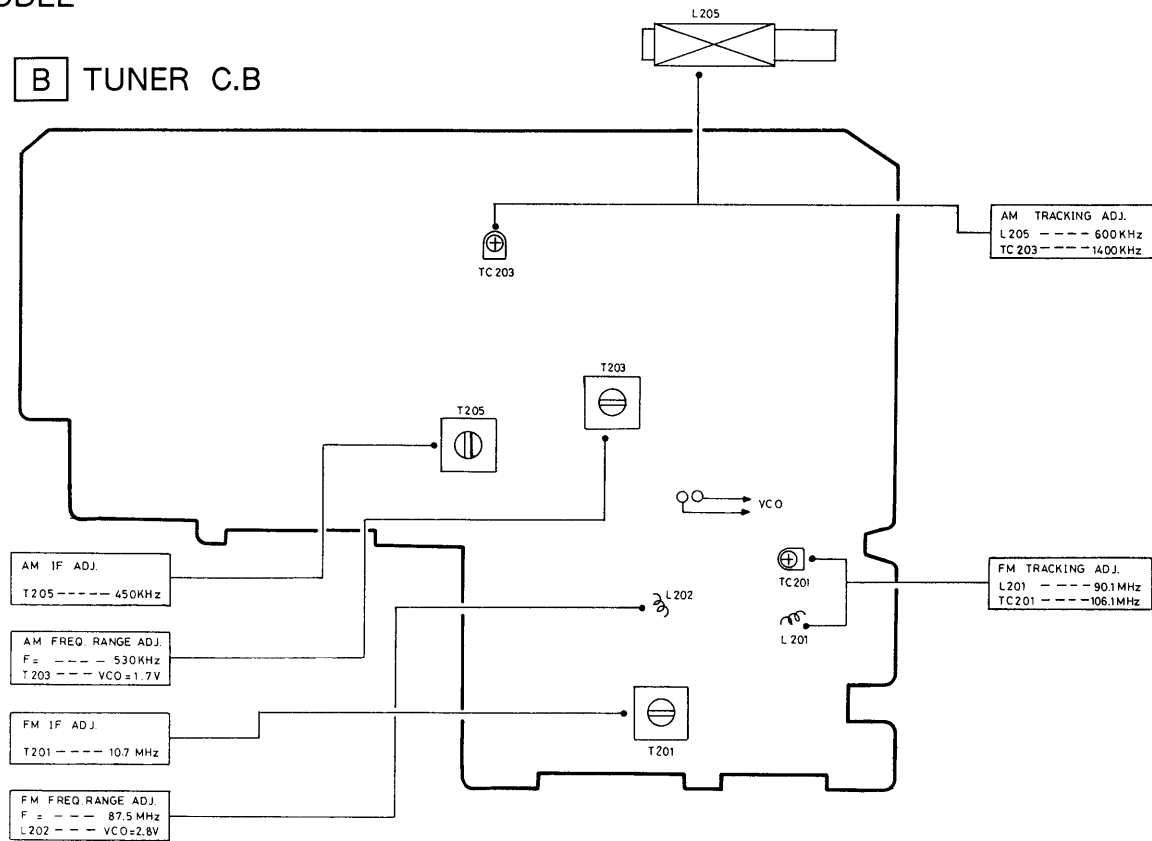
## H MODEL

### B TUNER C.B

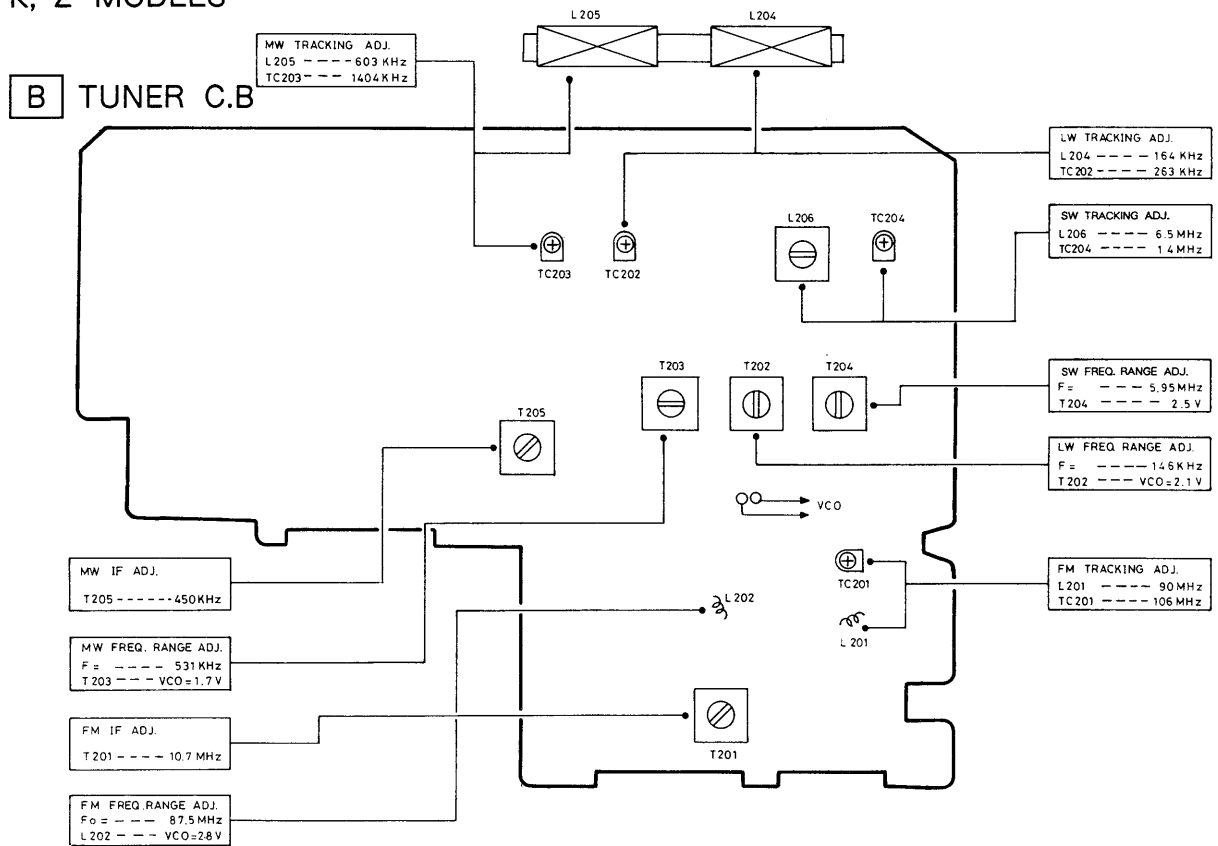


## C MODEL

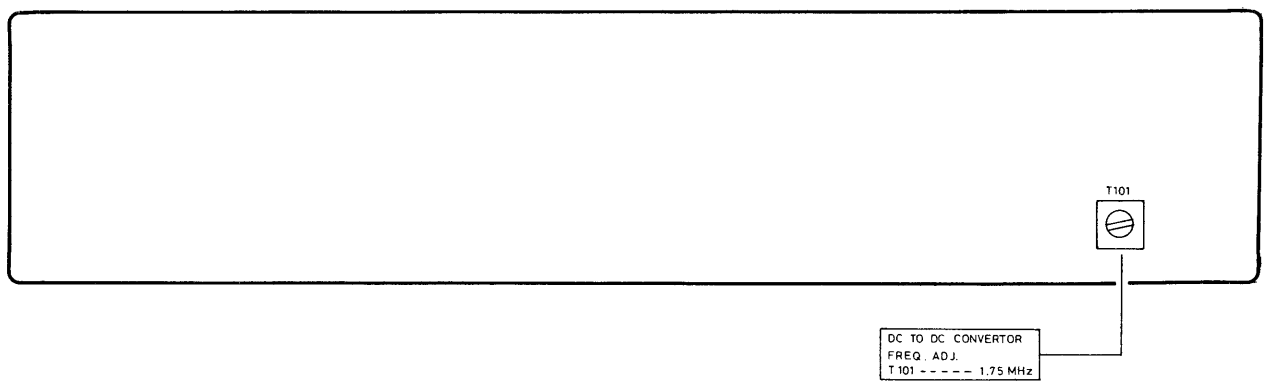
### B TUNER C.B

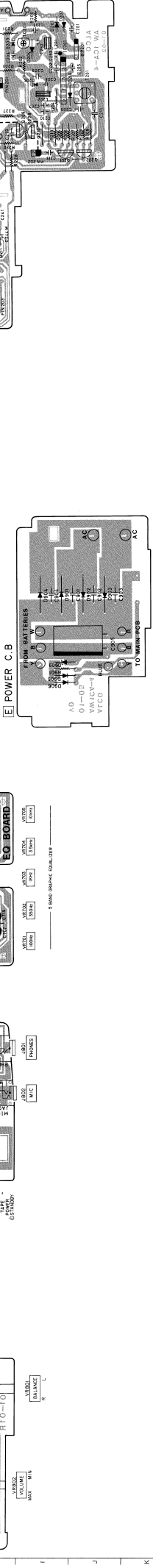
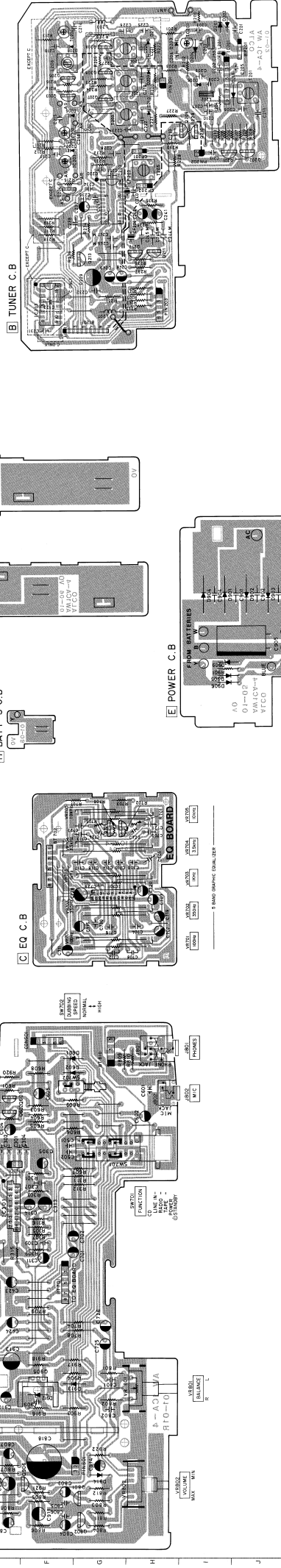
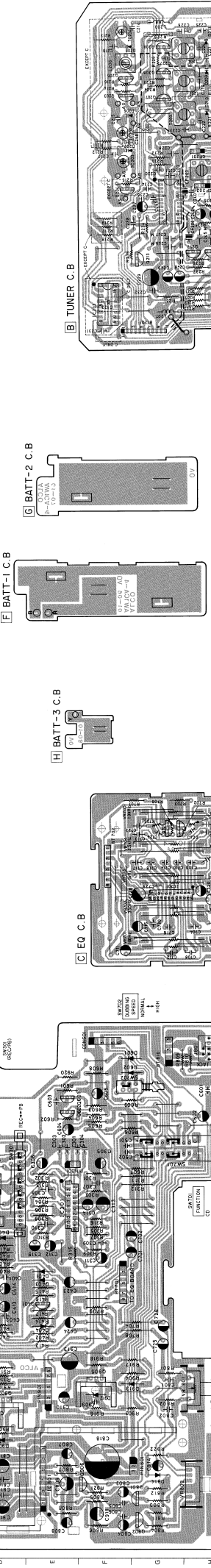
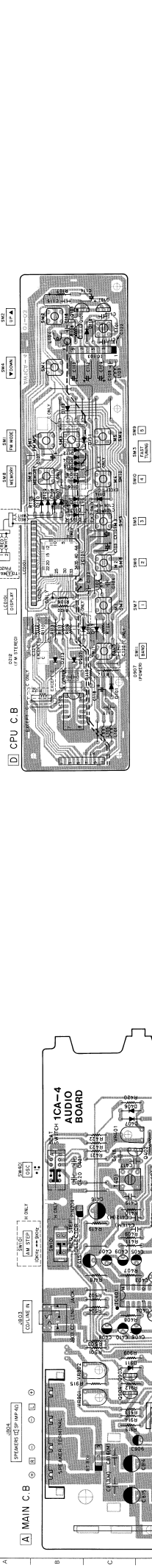
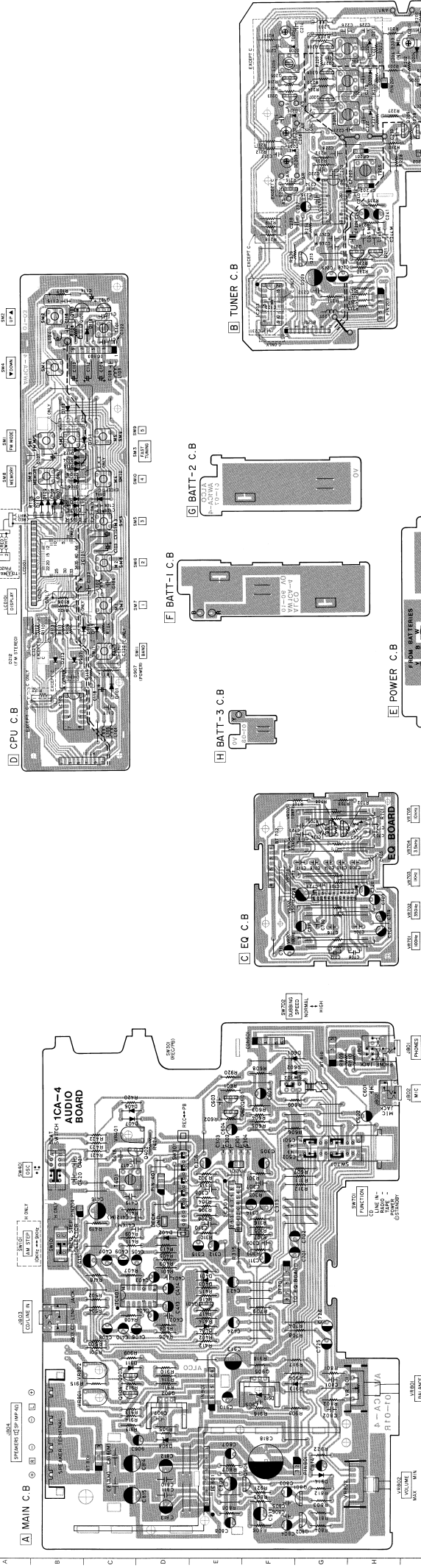


## E, K, Z MODELS

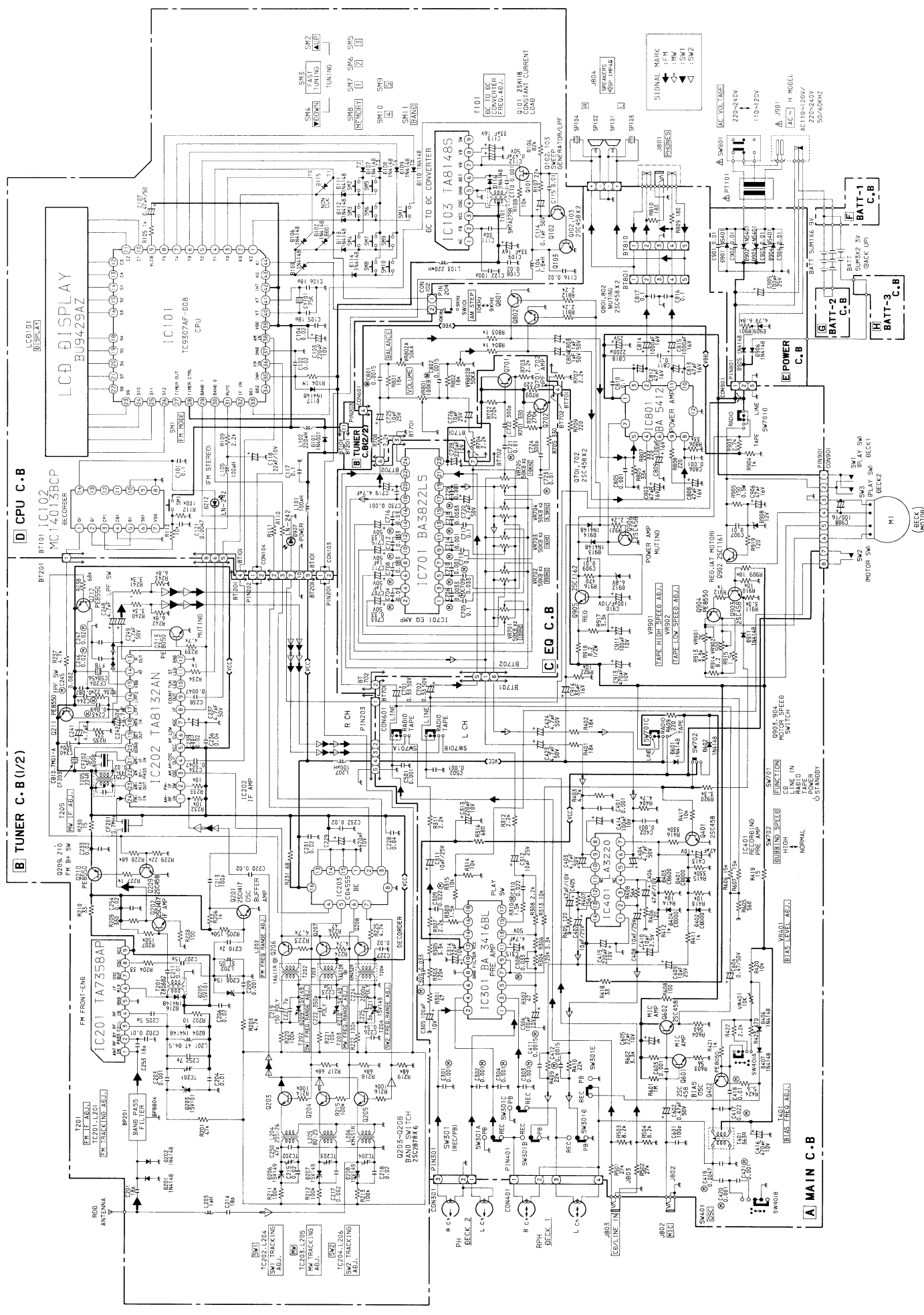


## D CPU C.B









# SCHEMATIC DIAGRAM – 1 (H MODEL)

## VOLTAGE

| IC 101 (TC9037) |   |   |   |   |     |     |     |     |     |
|-----------------|---|---|---|---|-----|-----|-----|-----|-----|
| PIN'S NUMBER    | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8   | 9   |
| MW              | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 | 2.3 |
| FM              | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 | 2.3 |
| SW 1            | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 | 2.3 |
| SW 2            | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 | 2.3 |

| TC 9307      |     |     |    |     |     |     |    |     |     |
|--------------|-----|-----|----|-----|-----|-----|----|-----|-----|
| PIN'S NUMBER | 10  | 26  | 27 | 28  | 29  | 30  | 31 | 32  | 33  |
| MW           | 3.7 | 3.8 |    | 5.3 | 5.3 | 0   | 0  | 2.5 | 0.9 |
| FM           | 3.4 | 3.5 |    | 5.1 | 0   | 0   | 0  | 2.5 | 0.9 |
| SW 1         | 3.1 | 3.2 |    | 5.3 | 0   | 5.3 | 0  | 2.6 | 0.9 |
| SW 2         | 3.7 | 3.8 |    | 5.3 | 5.3 | 5.2 | 0  | 2.6 | 0.9 |

| TC 9037      |     |     |    |     |     |     |    |     |    |
|--------------|-----|-----|----|-----|-----|-----|----|-----|----|
| PIN'S NUMBER | 35  | 36  | 37 | 38  | 39  | 40  | 41 | 42  | 43 |
| MW           | 5.2 | 2.5 | 0  | 0   | 5.3 | 2.5 | 2  | 5   | 0  |
| FM           | 5.2 | 2.5 | 0  | 0   | 5   | 2.3 | 2  | 5   | 0  |
| SW 1         | 5.4 | 0   | 0  | 2.6 | 5.3 | 2.5 | 2  | 5.3 | 0  |
| SW 2         | 5.4 | 0   | 0  | 2.6 | 5.3 | 2.5 | 2  | 5.3 | 0  |

| IC 203 (CD 4555) |   |     |     |     |     |     |     |
|------------------|---|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5   | 6   | 7   |
| MW               | 0 | 0   | 5.2 | 0   | 0   | 6.0 | 0   |
| FM               | 0 | 0   | 0   | 6.0 | 0   | 0   | 0   |
| SW 1             | 0 | 5.2 | 0   | 0   | 6.0 | 0   | 0   |
| SW 2             | 0 | 5.2 | 5.2 | 0   | 0   | 0   | 6.0 |

| IC 102 (MC 14013) |     |     |     |            |      |     |     |
|-------------------|-----|-----|-----|------------|------|-----|-----|
| PIN'S NUMBER      | 1   | 3   | 2.5 | 4,6,7,8,10 | 9,12 | 11  | 13  |
| AM                | 5.3 | 0   | 5.6 | 0          | 0    | 1.2 | 5.5 |
| FM MONO           | 0   | 5.5 | 0   | 0          | 0    | 1.1 | 5.1 |
| FM STEREO         | 5   | 0   | 0   | 0          | 0    | 1.2 | 4.7 |

| IC 202 (TA 8132)AN |     |     |     |     |     |     |     |   |     |
|--------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| PIN'S NUMBER       | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9   |
| AM                 | 5.1 | 5.1 | 5.2 | 4.8 | 5.2 | 4.5 | 0.6 | 0 | 5.2 |
| FM MONO            | 4   | 4.1 | 3.6 | 4.1 | 4.1 | 3.4 | 0.8 | 0 | 4   |
| FM STEREO          | 3.9 | 3.8 | 3.5 | 3.9 | 3.9 | 3.3 | 1.1 | 0 | 3.9 |

| TA 8312 AN   |     |    |     |     |     |     |     |     |     |
|--------------|-----|----|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 11  | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| AM           | 4.6 | 0  | 1.0 | 1.0 | 4.7 | 0   | 4.9 | 0   | 1.4 |
| FM MONO      | 3.8 | 0  | 1.0 | 1.0 | 3.4 | 3.2 | 3.1 | 0.6 | 0.8 |
| FM STEREO    | 0   | 0  | 1.0 | 1.0 | 3.2 | 2.7 | 3.1 | 0.6 | 0.3 |

| TA 8132 AN   |     |     |     |
|--------------|-----|-----|-----|
| PIN'S NUMBER | 21  | 22  | 23  |
| AM           | 5.2 | 4.5 | 5.2 |
| FM MONO      | 4.1 | 3.9 | 4.1 |
| FM STEREO    | 3.9 | 3.7 | 3.9 |

| IC 201 (TA 7358)AP |     |     |     |     |   |     |   |     |
|--------------------|-----|-----|-----|-----|---|-----|---|-----|
| PIN'S NUMBER       | 1   | 2   | 3   | 4   | 5 | 6   | 7 | 8   |
| FM                 | 0.8 | 1.6 | 3.7 | 1.5 | 0 | 3.8 | 3 | 3.7 |

| IC 103 (TA 8148) |   |     |     |     |   |     |      |     |
|------------------|---|-----|-----|-----|---|-----|------|-----|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5 | 6   | 7    | 8   |
| FM               | 0 | 1.4 | 5.7 | 5.7 | 0 | 7.9 | 15.3 | 4.7 |

| IC 301 (BA 3416) |   |   |   |   |     |     |     |   |
|------------------|---|---|---|---|-----|-----|-----|---|
| PIN'S NUMBER     | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8 |
| DECK 1 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 |
| DECK 2 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 |
| DECK 1 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 |
| DECK 2 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 |

| BA 3416      |     |     |     |     |     |    |    |    |
|--------------|-----|-----|-----|-----|-----|----|----|----|
| PIN'S NUMBER | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 |
| DECK 1 LOW   | 5   | 0.7 | 5.3 | 2.5 | 2.6 | 0  | 0  | 0  |
| DECK 2 HIGH  | 4.8 | 0.7 | 5.1 | 2.4 | 2.4 | 0  | 0  | 0  |
| DECK 1 LOW   | 4.9 | 1.9 | 5.3 | 2.6 | 2.6 | 0  | 0  | 0  |
| DECK 2 HIGH  | 4.8 | 1.9 | 5.1 | 2.4 | 2.5 | 0  | 0  | 0  |

| IC 401 (LA 3220) |   |     |     |     |     |   |
|------------------|---|-----|-----|-----|-----|---|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5   | 6 |
| REC              | 0 | 3.0 | 5.2 | 3.0 | 3.0 | 0 |

| LA 3220      |     |   |     |     |     |
|--------------|-----|---|-----|-----|-----|
| PIN'S NUMBER | 8   | 9 | 10  | 11  | 12  |
| REC          | 3.0 | 0 | 3.0 | 3.0 | 5.4 |

| IC 701 (BA 3822) |     |     |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER     | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| CD POSITION      | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 4.3 |

| BA 3822      |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 9   | 10  | 11  | 12  | 13  | 14  |
| CD POSITION  | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 |

| BA 3822      |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 17  | 18  | 19  | 20  | 21  | 22  |
| CD POSITION  | 2.9 | 1.7 | 1.7 | 2.9 | 2.4 | 2.4 |

| IC 801 (BA 5412) |      |     |      |     |     |
|------------------|------|-----|------|-----|-----|
| PIN'S NUMBER     | 1    | 2   | 3    | 4   | 5   |
| CD POSITION (AC) | 17.1 | 8.7 | 14.6 | 0   | 6.1 |
| DC V9            | 9    | 4.6 | 7.3  | 0.6 | 0   |

| BA 5412 AN       |      |   |     |      |     |
|------------------|------|---|-----|------|-----|
| PIN'S NUMBER     | 7    | 8 | 9   | 10   | 11  |
| CD POSITION (AC) | 15.6 | 0 | 0.6 | 14.6 | 8.6 |
| DC V9            | 8.2  | 0 | 0.7 | 7.3  | 4.6 |

| Q 101 (K 118R) |     |      |     |     |     |     |     |     |
|----------------|-----|------|-----|-----|-----|-----|-----|-----|
| BAND           | G   | D    | S   | B   | C   | E   | B   | C   |
| MW 531kHz      | 1.7 | 15.3 | 2.3 | 1.0 | 1.7 | 0.6 | 0.6 | 1.7 |
| MW 1602kHz     | 8.5 | 15.3 | 9.1 | 1.0 | 8.5 | 0.6 | 0.6 | 8.5 |
| FM 87.5kHz     | 2.8 | 15.3 | 3.3 | 0   | 2.8 | 0.6 | 0.6 | 2.8 |
| FM 108MHz      | 8.9 | 15.3 | 9.4 | 1.0 | 8.9 | 0.6 | 0.6 | 8.9 |
| SW 1 2.3MHz    | 2.5 | 15.3 | 3   | 1.0 | 2.5 | 0.6 | 0.6 | 2.5 |
| SW 1 6.2MHz    | 8.5 | 15.3 | 8.6 | 1.0 | 8.5 | 0.6 | 0.6 | 8.5 |
| SW 2 7.1MHz    | 1.7 | 15.3 | 2.2 | 1.0 | 1.7 | 0.6 | 0.6 | 1.7 |
| SW 2 15.6MHz   | 9.3 | 15.3 | 9.8 | 1.0 | 9.3 | 0.6 | 0.6 | 9.3 |

| Q 203 (C 2878) |     |   |   |     |   |   |     |   |
|----------------|-----|---|---|-----|---|---|-----|---|
|                | B   | C | E | B   | C | E | B   | C |
| MW             | 0   | 0 | 0 | 0.7 | 0 | 0 | 0   | 0 |
| FM             | 0   | 0 | 0 | 0   | 0 | 0 | 0   | 0 |
| SW 1           | 0.7 | 0 | 0 | 0   | 0 | 0 | 0   | 0 |
| SW 2           | 0   | 0 | 0 | 0   | 0 | 0 | 0.7 | 0 |

| Q 206 (C 2878) |     |     |     |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                | B   | C   | E   | B   | C   | E   | B   | C   |
| MW             | 0   | 5.0 | 5.0 | 5.8 | 5.0 | 5.0 | 0   | 5.0 |
| FM             |     |     |     |     |     |     |     |     |
| SW 1           | 5.8 | 5.0 | 5.0 | 0   | 5.0 | 5.0 | 0   | 5.0 |
| SW 2           | 0   | 5.0 | 5.0 | 0   | 5.0 | 5.0 | 5.8 | 5.0 |

| Q 211 (8550) |     |     |     |     |     |     |   |   |
|--------------|-----|-----|-----|-----|-----|-----|---|---|
|              | B   | C   | E   | B   | C   | E   | B | C |
| AM MONO      | 4.6 | 5.1 | 5.3 | 4.7 | 5.3 | 5.3 | 0 | 0 |
| FM MONO      | 3.7 | 3.4 | 4.3 | 5.8 | 3.3 | 4.3 | 0 | 0 |
| FM STEREO    | 5.4 | 4.4 | 4.4 | 5.8 | 4.1 | 4.4 | 0 | 0 |

| Q 401 (C 458) |     |   |   |     |      |     |      |      |
|---------------|-----|---|---|-----|------|-----|------|------|
|               | B   | C | E | B   | C    | E   | B    | C    |
| TAPE          | 0.1 | 0 | 0 | 2.1 | 10.2 | 1.5 | 10.7 | 11.4 |
| LOW           | 0.1 | 0 | 0 | 2.1 | 10.2 | 1.5 | 10.7 | 11.4 |
| HIGH          | 0.7 | 0 | 0 | 2.1 | 10.9 | 2.4 | 11   | 8.9  |

| Q 402 (8050) |     |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
|              | B   | C   | E   | B   | C   | E   | B   | C   |
|              | 0.7 | 5.8 | 0.1 | 0.7 | 2.4 | 0.1 | 2.5 | 1.9 |

| Q 702 (C 458) |     |     |     |     |   |   |     |   |
|---------------|-----|-----|-----|-----|---|---|-----|---|
|               | B   | C   | E   | B   | C | E | B   | C |
| AC            |     |     |     |     |   |   |     |   |
| DC 9V         | 3.1 | 4.4 | 2.5 | 0.1 | 0 | 0 | 0.1 | 0 |

| Q 902 (C 1162) |     |      |     |     |     |   |   |   |
|----------------|-----|------|-----|-----|-----|---|---|---|
|                | B   | C    | E   | B   | C   | E | B | C |
| AC             | 7   | 16.3 | 6.3 | 0.1 | 6.3 | 0 |   |   |
| DC 9V          | 6.9 | 9    | 6.1 | 0.1 | 5.9 | 0 |   |   |

| Q 201 (1417) |     |     |   |     |     |     |     |     |
|--------------|-----|-----|---|-----|-----|-----|-----|-----|
|              | B   | C   | E | B   | C   | E   | B   | C   |
| FM           | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 202 (C 1417) |     |     |   |     |     |     |     |     |
|----------------|-----|-----|---|-----|-----|-----|-----|-----|
|                | B   | C   | E | B   | C   | E   | B   | C   |
|                | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 209 (C 458) |     |     |   |     |     |     |     |     |
|---------------|-----|-----|---|-----|-----|-----|-----|-----|
|               | B   | C   | E | B   | C   | E   | B   | C   |
|               | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 210 (C 8550) |     |     |   |     |     |     |     |     |
|----------------|-----|-----|---|-----|-----|-----|-----|-----|
|                | B   | C   | E | B   | C   | E   | B   | C   |
|                | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

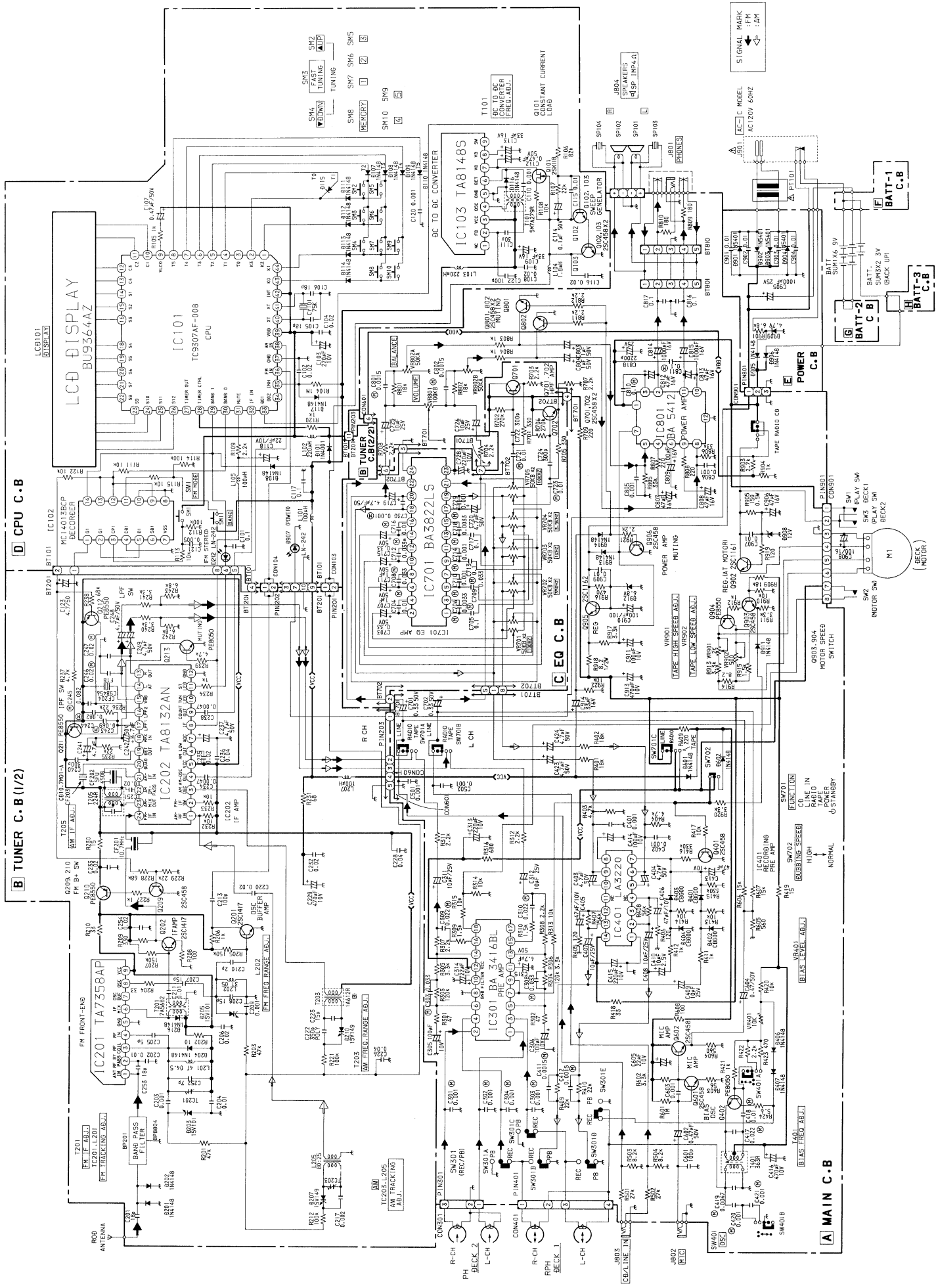
| Q 213 (8050) |     |     |   |     |     |     |     |     |
|--------------|-----|-----|---|-----|-----|-----|-----|-----|
|              | B   | C   | E | B   | C   | E   | B   | C   |
|              | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 214 (8050) |     |     |   |     |     |     |     |     |
|--------------|-----|-----|---|-----|-----|-----|-----|-----|
|              | B   | C   | E | B   | C   | E   | B   | C   |
|              | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 215 (8050) |     |     |   |     |     |     |     |     |
|--------------|-----|-----|---|-----|-----|-----|-----|-----|
|              | B   | C   | E | B   | C   | E   | B   | C   |
|              | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 216 (8050) |     |     |   |     |     |     |     |     |
|--------------|-----|-----|---|-----|-----|-----|-----|-----|
|              | B   | C   | E | B   | C   | E   | B   | C   |
|              | 0.7 | 0.1 | 0 | 0.7 | 3.6 | 0.2 | 0.7 | 0.1 |

| Q 217 (8050) |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|
|              | B | C | E | B | C | E | B | C |



# SCHEMATIC DIAGRAM – 2 (C MODEL) VOLTAGE

| IC 101 (TC 9307) |   |   |   |   |     |     |     |     |     |
|------------------|---|---|---|---|-----|-----|-----|-----|-----|
| PIN'S NUMBER     | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8   | 9   |
| MW               | 0 | 0 | 0 | 0 | 5.2 | 5.2 | 5.2 | 5.2 | 2.3 |
| FM               | 0 | 0 | 0 | 0 | 5   | 5   | 5   | 5   | 2.1 |

| TC 9037      |     |     |    |     |     |     |    |     |    |
|--------------|-----|-----|----|-----|-----|-----|----|-----|----|
| PIN'S NUMBER | 10  | 26  | 27 | 28  | 29  | 30  | 31 | 32  | 33 |
| MW           | 3.7 | 3.8 |    | 5.0 | 5.4 | 0   | 0  | 2.3 | 1  |
| FM           | 3.4 | 3.5 |    | 5.0 | 5.2 | 5.2 | 0  | 2.5 | 1  |

| TC 9307      |     |     |    |     |     |     |     |     |    |
|--------------|-----|-----|----|-----|-----|-----|-----|-----|----|
| PIN'S NUMBER | 35  | 36  | 37 | 38  | 39  | 40  | 41  | 42  | 43 |
| MW           | 5.4 | 0   | 0  | 2.5 | 5.2 | 2.4 | 1.9 | 5.2 | 0  |
| FM           | 5.2 | 2.5 | 0  | 0   | 5.0 | 2.7 | 1.8 | 5.0 | 0  |

| IC 102 (MC 14013) |     |   |     |            |      |    |     |     |  |
|-------------------|-----|---|-----|------------|------|----|-----|-----|--|
| PIN'S NUMBER      | 1   | 3 | 2.5 | 4,6,7,8,10 | 9,12 | 11 | 13  | 14  |  |
| AM                | 5.3 | 0 | 0   | 0          | 5.5  | 0  | 0   | 5.5 |  |
| FM MONO           | 0.3 | 0 | 5.2 | 0          | 0    | 0  | 5.2 | 5.2 |  |
| FM STEREO         | 5.2 | 0 | 0   | 0          | 0    | 0  | 5.2 | 5.2 |  |

| IC 202 (TA 81321AN) |     |     |     |     |     |     |     |   |     |
|---------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| PIN'S NUMBER        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9   |
| AM                  | 5.1 | 5.1 | 5.2 | 4.8 | 5.2 | 4.5 | 0.5 | 0 | 5.2 |
| FM MONO             | 4.3 | 4.2 | 4.3 | 4.3 | 4.3 | 3.6 | 0.5 | 0 | 4.2 |
| FM STEREO           | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 3.6 | 0.5 | 0 | 4.1 |

| TA 8132 AN   |     |    |     |     |     |     |     |     |     |
|--------------|-----|----|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 11  | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| AM           | 4.1 | 0  | 1.0 | 1.0 | 4.6 | 5.2 | 4.9 | 0.7 | 1.3 |
| FM MONO      | 4.0 | 0  | 1.0 | 1.0 | 4.0 | 4.0 | 4.2 | 0.7 | 1.0 |
| FM STEREO    | 0.1 | 0  | 1.0 | 1.0 | 3.5 | 3.4 | 3.3 | 0.7 | 1.1 |

| TA 8132 AN   |     |     |     |
|--------------|-----|-----|-----|
| PIN'S NUMBER | 21  | 22  | 23  |
| AM           | 5.1 | 4.4 | 5.2 |
| FM MONO      | 4.3 | 4.1 | 4.3 |
| FM STEREO    | 4.2 | 4.1 | 4.2 |

| IC 201 (TA 73581AP) |     |     |     |     |   |     |     |     |     |
|---------------------|-----|-----|-----|-----|---|-----|-----|-----|-----|
| PIN'S NUMBER        | 1   | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9   |
| FM                  | 0.8 | 1.5 | 4.0 | 1.5 | 0 | 3.9 | 3.1 | 3.9 | 3.9 |

| IC 103 (TA 8148) |   |     |     |     |   |     |      |     |     |
|------------------|---|-----|-----|-----|---|-----|------|-----|-----|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5 | 6   | 7    | 8   | 9   |
| FM               | 0 | 1.4 | 5.7 | 5.7 | 0 | 7.9 | 15.3 | 4.7 | 1.9 |

| IC 301 (BA 3416) |   |   |   |   |     |     |     |   |     |
|------------------|---|---|---|---|-----|-----|-----|---|-----|
| PIN'S NUMBER     | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8 | 9   |
| DECK 1 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 | 0.1 |
| DECK 1 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 | 1.5 |
| DECK 2 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 | 0.1 |
| DECK 2 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 | 1.5 |

| BA 3416      |     |     |     |     |     |    |    |    |     |
|--------------|-----|-----|-----|-----|-----|----|----|----|-----|
| PIN'S NUMBER | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18  |
| DECK 1 LOW   | 4.9 | 0.7 | 5.2 | 2.8 | 2.7 | 0  | 0  | 0  | 0.1 |
| DECK 1 HIGH  | 4.7 | 0.7 | 5.0 | 2.6 | 2.6 | 0  | 0  | 0  | 0.1 |
| DECK 2 LOW   | 4.8 | 1.9 | 5.2 | 2.7 | 2.6 | 0  | 0  | 0  | 1.6 |
| DECK 2 HIGH  | 4.7 | 1.9 | 5.0 | 2.6 | 2.5 | 0  | 0  | 0  | 1.6 |

| IC 401 (LA 3220) |   |     |     |     |     |   |   |
|------------------|---|-----|-----|-----|-----|---|---|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5   | 6 | 7 |
| REC POSITION     | 0 | 0.3 | 5.2 | 3.0 | 3.0 | 0 | 0 |

| LA 3220      |     |   |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 8   | 9 | 10  | 11  | 12  | 13  | 14  |
| REC POSITION | 3.0 | 0 | 3.0 | 3.0 | 5.4 | 2.6 | 5.9 |

| IC 701 (BA 3822) |     |     |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER     | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| CD POSITION      | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 4.3 |

| BA 3822      |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| CD POSITION  | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 4.3 |

| BA 3822      |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| CD POSITION  | 2.9 | 1.7 | 1.7 | 2.9 | 2.4 | 2.4 | 4.7 |

| IC 801 (BA 5412) |      |     |      |   |   |
|------------------|------|-----|------|---|---|
| PIN'S NUMBER     | 1    | 2   | 3    | 4 | 5 |
| CD POSITION      | 18.9 | 9.7 | 16.2 | 0 | 0 |

| BA 5412      |      |   |     |      |     |
|--------------|------|---|-----|------|-----|
| PIN'S NUMBER | 7    | 8 | 9   | 10   | 11  |
| CD POSITION  | 17.1 | 0 | 0.6 | 16.2 | 9.6 |

| BAND       | Q 101 (K 1181AN) |      |     | Q 102 (IC 4581AN) |     |     | Q 103 (IC 4581AN) |     |   |
|------------|------------------|------|-----|-------------------|-----|-----|-------------------|-----|---|
|            | G                | D    | S   | B                 | C   | E   | B                 | C   | E |
| MW 530kHz  | 1.7              |      | 2.1 |                   | 1.7 |     | 1.7               |     |   |
| MW 1710kHz | 8.6              | 15.3 | 9.0 | 1.0               | 8.6 | 0.6 | 0.6               | 8.6 | 0 |
| FM 87.5MHz | 2.8              |      | 3.2 |                   | 2.8 |     |                   | 2.8 |   |
| FM 108MHz  | 8.6              | 15.3 | 9.0 | 1.0               | 8.6 | 0.6 | 0.6               | 8.6 | 0 |

| FM | Q 201 (1417) |     |   | Q 202 (IC 1417) |     |   | Q 209 (IC 458) |     |   | Q 210 (8550) |     |     |
|----|--------------|-----|---|-----------------|-----|---|----------------|-----|---|--------------|-----|-----|
|    | B            | C   | E | B               | C   | E | B              | C   | E | B            | C   | E   |
|    | 0.7          | 1.6 | 0 | 0.7             | 3.6 | 0 | 0.7            | 0.1 | 0 | 3.2          | 3.9 | 3.9 |

|           | Q 211 (8550) |     |     | Q 212 (8550) |     |     | Q 213 (8050) |   |   |
|-----------|--------------|-----|-----|--------------|-----|-----|--------------|---|---|
|           | B            | C   | E   | B            | C   | E   | B            | C | E |
| AM MONO   | 4.6          | 5.1 | 5.3 | 4.7          | 5.3 | 5.3 | 0            | 0 | 0 |
| FM MONO   | 3.7          | 3.4 | 4.3 | 5.8          | 3.3 | 4.3 | 0            | 0 | 0 |
| FM STEREO | 5.4          | 4.4 | 4.4 | 5.8          | 4.1 | 4.4 | 0            | 0 | 0 |

| TAPE       | Q 401 (IC 458) |   |   | Q 903 (IC 458) |      |     | Q 904 (8550) |      |      |
|------------|----------------|---|---|----------------|------|-----|--------------|------|------|
|            | B              | C | E | B              | C    | E   | B            | C    | E    |
| LOW SPEED  | 0.1            | 0 | 0 | 2.1            | 10.2 | 1.5 | 10.7         | 11.4 | 11.4 |
| HIGH SPEED | 0.7            | 0 | 0 | 2.2            | 10.9 | 2.4 | 11           | 8.9  | 11.4 |

|  | Q 402 (8050) |     |     | Q 601 (IC 458) |     |     | Q 602 (IC 458) |   |     | Q 701 (IC 458) |     |     |
|--|--------------|-----|-----|----------------|-----|-----|----------------|---|-----|----------------|-----|-----|
|  | B            | C   | E   | B              | C   | E   | B              | C | E   | B              | C   | E   |
|  | 0.7          | 5.8 | 0.1 | 0.7            | 2.4 | 0.1 | 2.5            | 5 | 1.9 | 3.1            | 4.4 | 2.5 |

|       | Q 702 (IC 458) |     |     | Q 801 (IC 458) |   |   | Q 802 (IC 458) |   |   | Q 901 (IC 1162) |      |      |
|-------|----------------|-----|-----|----------------|---|---|----------------|---|---|-----------------|------|------|
|       | B              | C   | E   | B              | C | E | B              | C | E | B               | C    | E    |
| AC    |                |     |     |                |   |   |                |   |   | 12.0            | 16.2 | 11.3 |
| DC 9V | 3.1            | 4.4 | 2.5 | 0.1            | 0 | 0 | 0.1            | 0 | 0 | 8.8             | 9    | 8.2  |

|       | Q 902 (IC 1162) |      |     | Q 906 (IC 458) |     |   |
|-------|-----------------|------|-----|----------------|-----|---|
|       | B               | C    | E   | B              | C   | E |
| AC    | 7               | 16.3 | 6.3 | 0.1            | 6.3 | 0 |
| DC 9V | 6.9             | 9    | 6.1 | 0.1            | 5.9 | 0 |

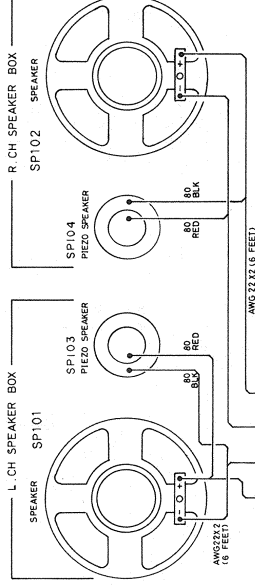
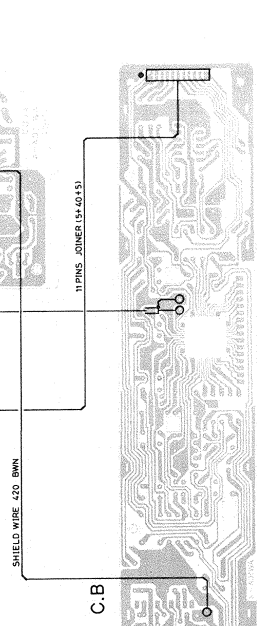
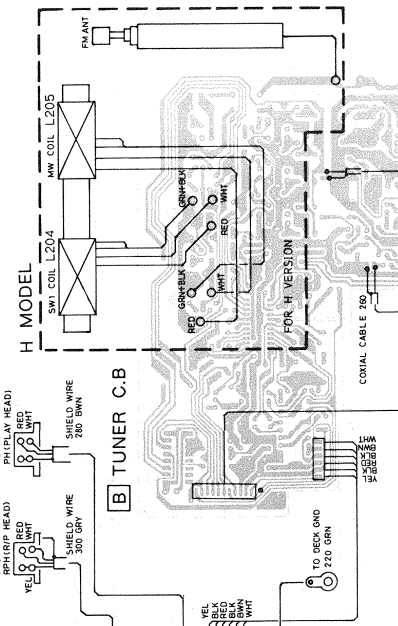
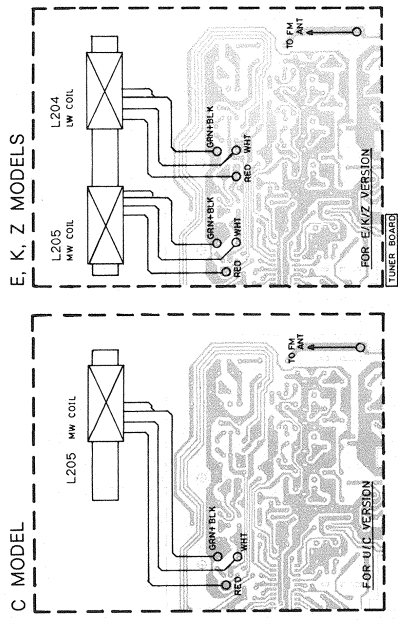
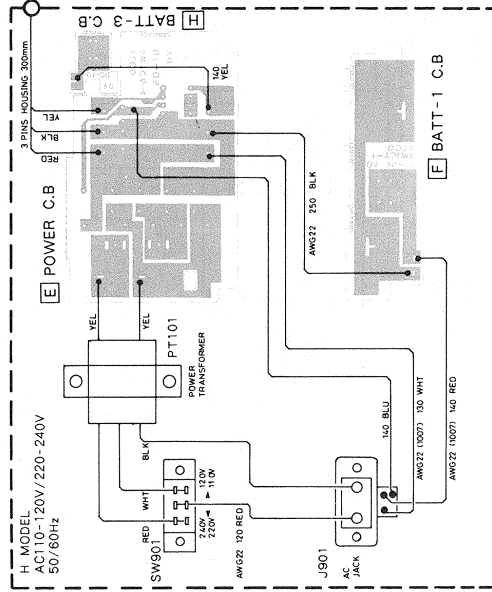
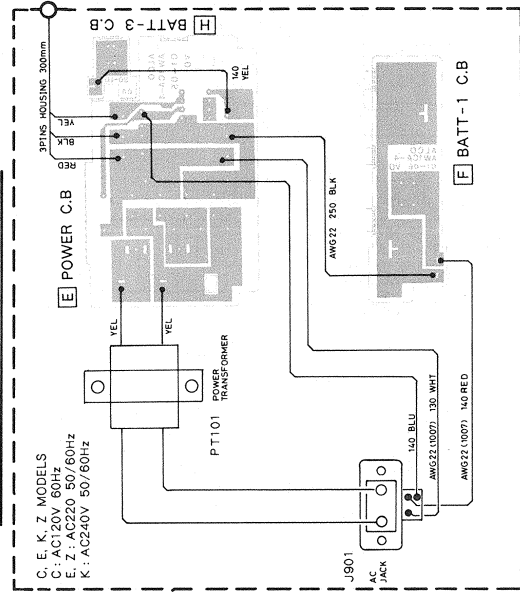
# WIRING DIAGRAM MODEL NO : CA-W70 SERIES

C, E, K, Z MODELS

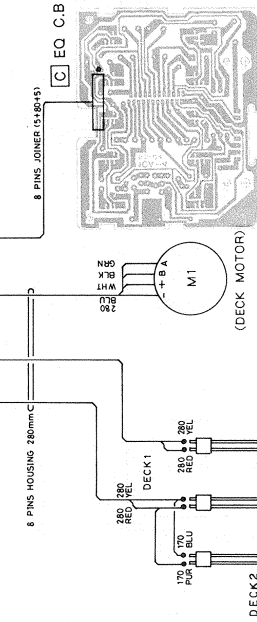
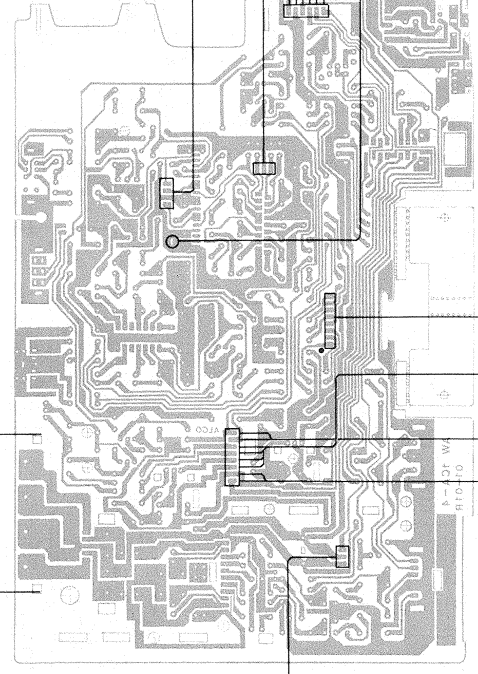
C : AC120V 60Hz

E, Z : AC220 50/60Hz

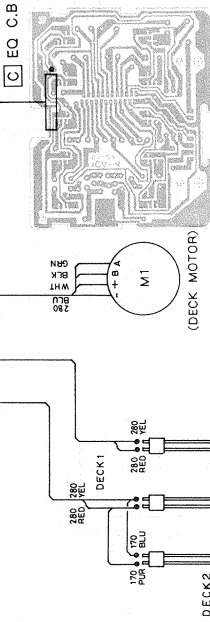
K : AC240V 50/60Hz



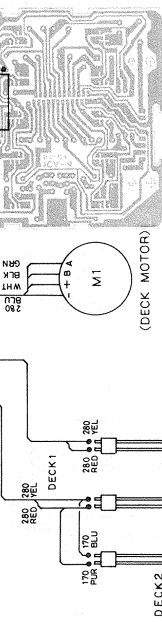
A MAIN C.B



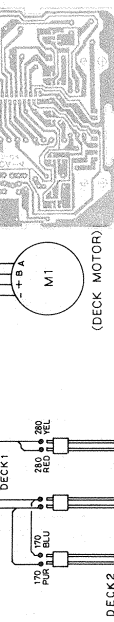
C EQ C.B



D CPU C.B



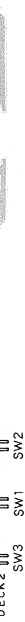
B TUNER C.B



H BATT-3 C.B



E POWER C.B



H BATT-1 C.B



H BATT-2 C.B



H BATT-3 C.B



# SCHEMATIC DIAGRAM – 3 (E, K, Z MODELS)

## VOLTAGE

| IC 401 (LA 3220) |   |     |     |     |     |   |   |
|------------------|---|-----|-----|-----|-----|---|---|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5   | 6 | 7 |
| REC              | 0 | 3.0 | 5.2 | 3.0 | 3.0 | 0 | 0 |

| LA 3220      |     |   |     |     |     |     |     |
|--------------|-----|---|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 8   | 9 | 10  | 11  | 12  | 13  | 14  |
| REC          | 3.0 | 0 | 3.0 | 3.0 | 5.4 | 2.6 | 5.9 |

| IC 701 (BA 3822) |     |     |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER     | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| CD POSITION      | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 4.3 |

| BA 3822      |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| CD POSITION  | 3.7 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 4.3 |

| BA 3822      |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 17  | 19  | 19  | 20  | 21  | 22  | 23  |
| CD POSITION  | 2.9 | 1.7 | 1.7 | 2.9 | 2.4 | 2.4 | 4.7 |

| IC 801(BA 5412) |      |     |      |   |   |
|-----------------|------|-----|------|---|---|
| PIN'S NUMBER    | 1    | 2   | 3    | 4 | 5 |
| CD POSITION     | 16.9 | 9.7 | 16.2 | 0 | 0 |

| BA 5412      |      |   |     |      |     |
|--------------|------|---|-----|------|-----|
| PIN'S NUMBER | 7    | 8 | 9   | 10   | 11  |
| CD POSITION  | 17.1 | 0 | 0.6 | 16.2 | 9.6 |

| BAND       | Q 101 (K 118) |      |     | Q 102 (C 458) |     |     | Q 103 (C 458) |     |   |
|------------|---------------|------|-----|---------------|-----|-----|---------------|-----|---|
|            | G             | D    | S   | B             | C   | E   | B             | C   | E |
| MW 531kHz  | 1.7           | 15.3 | 2.3 | 1.0           | 1.7 | 0.6 | 0.6           | 1.7 | 0 |
| MW 1602kHz | 8.5           | 15.3 | 9.1 | 1.0           | 8.5 | 0.5 | 0.5           | 8.5 | 0 |
| FM 87.5MHz | 2.8           | 15.3 | 3.3 | 0.2           | 2.8 | 0.5 | 0.5           | 2.8 | 0 |
| FM 108MHz  | 8.7           | 15.3 | 3.3 | 1.0           | 8.7 | 0.5 | 0.5           | 8.7 | 0 |
| SW 5.95MHz | 2.8           | 15.3 | 3.3 | 1.0           | 2.8 | 0.5 | 0.5           | 2.8 | 0 |
| SW 15.6MHz | 9.4           | 15.3 | 9.9 | 1.0           | 9.4 | 0.5 | 0.5           | 9.4 | 0 |
| LW 146kHz  | 2.1           | 15.3 | 2.8 | 1.0           | 2.1 | 0.5 | 0.6           | 2.1 | 0 |
| LW 281kHz  | 8.0           | 15.3 | 8.6 | 1.0           | 8   | 0.5 | 0.5           | 8   | 0 |

|    | Q 203 (C2878) |   |   | Q 204 (C2878) |   |   | Q 205 (C2878) |   |   |
|----|---------------|---|---|---------------|---|---|---------------|---|---|
|    | B             | C | E | B             | C | E | B             | C | E |
| MW | 0             | 0 | 0 | 0.7           | 0 | 0 | 0             | 0 | 0 |
| FM | 0             | 0 | 0 | 0             | 0 | 0 | 0             | 0 | 0 |
| SW | 0             | 0 | 0 | 0             | 0 | 0 | 0.7           | 0 | 0 |
| LW | 0.7           | 0 | 0 | 0             | 0 | 0 | 0             | 0 | 0 |

|    | Q 206 (C 2878) |     |     | Q 207 (C2878) |     |     | Q 208 (C 2878) |     |     |
|----|----------------|-----|-----|---------------|-----|-----|----------------|-----|-----|
|    | B              | C   | E   | B             | C   | E   | B              | C   | E   |
| MW | 0              | 5.0 | 0   | 5.8           | 5.0 | 5.0 | 0              | 5.0 | 5.0 |
| FM | 0              |     |     |               |     |     |                |     |     |
| SW | 0              | 5.0 | 5.0 | 0             | 5.0 | 5.0 | 5.8            | 5.0 | 5.0 |
| LW | 5.8            | 5.0 | 5.0 | 0             | 5.0 | 5.0 | 0              | 5.0 | 5.0 |

| FM | Q 201 (C1417) |     |   | Q 202 (C1417) |     |     | Q 209 (C458) |     |   | Q 210 (B550) |     |     |
|----|---------------|-----|---|---------------|-----|-----|--------------|-----|---|--------------|-----|-----|
|    | B             | C   | E | B             | C   | E   | B            | C   | E | B            | C   | E   |
|    | 0.7           | 1.6 | 0 | 0.7           | 3.6 | 0.2 | 0.7          | 0.1 | 0 | 3.2          | 3.9 | 3.9 |

|           | Q 211 (B550) |     |     | Q 212 (B550) |     |     | Q 213 (B050) |   |   |
|-----------|--------------|-----|-----|--------------|-----|-----|--------------|---|---|
|           | B            | C   | E   | B            | C   | E   | B            | C | E |
| AM MONO   | 4.6          | 5.1 | 5.3 | 4.7          | 5.3 | 5.3 | 0            | 0 | 0 |
| FM MONO   | 3.7          | 3.4 | 4.3 | 5.8          | 3.3 | 4.3 | 0            | 0 | 0 |
| FM STEREO | 5.4          | 4.4 | 4.4 | 5.8          | 4.1 | 4.4 | 0            | 0 | 0 |

|      | Q 401 (C 458) |   |   | Q 903 (C458) |      |     | Q 904 (B550) |      |      |
|------|---------------|---|---|--------------|------|-----|--------------|------|------|
|      | B             | C | E | B            | C    | E   | B            | C    | E    |
| LOW  | 0.1           | 0 | 0 | 2.1          | 10.2 | 1.5 | 10.7         | 11.4 | 11.4 |
| HIGH | 0.7           | 0 | 0 | 2.1          | 10.9 | 2.4 | 11           | 8.9  | 11.4 |

|  | Q 402 (B050) |     |     | Q 601 (C 458) |     |     | Q 602 (C458) |   |     | Q 701 (C458) |     |     |
|--|--------------|-----|-----|---------------|-----|-----|--------------|---|-----|--------------|-----|-----|
|  | B            | C   | E   | B             | C   | E   | B            | C | E   | B            | C   | E   |
|  | 0.7          | 5.8 | 0.1 | 0.7           | 2.4 | 0.1 | 2.5          | 5 | 1.9 | 3.1          | 4.4 | 2.5 |

|       | Q 702 (C 458) |     |     | Q 801 (C 458) |   |   | Q 802 (C458) |   |   | Q 901 (C 458) |      |      |
|-------|---------------|-----|-----|---------------|---|---|--------------|---|---|---------------|------|------|
|       | B             | C   | E   | B             | C | E | B            | C | E | B             | C    | E    |
| AC    | 3.1           | 4.4 | 2.5 | 0.1           | 0 | 0 | 0.1          | 0 | 0 | 12.0          | 16.2 | 11.3 |
| DC 9V | 3.1           | 4.4 | 2.5 | 0.1           | 0 | 0 | 0.1          | 0 | 0 | 8.8           | 9    | 8.2  |

|    | Q 902 (C 1162) |      |     | Q 906 (C 458) |     |   |
|----|----------------|------|-----|---------------|-----|---|
|    | B              | C    | E   | B             | C   | E |
| AC | 7              | 16.3 | 6.3 | 0.1           | 6.3 | 0 |
| DC | 6.9            | 9    | 6.1 | 0.1           | 5.9 | 0 |

| IC 101 (TC 9307) |   |   |   |   |     |     |     |     |
|------------------|---|---|---|---|-----|-----|-----|-----|
| PIN'S NUMBER     | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8   |
| MW               | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 |
| FM               | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 |
| SW               | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 |
| LW               | 0 | 0 | 0 | 0 | 5.3 | 5.3 | 5.3 | 5.3 |

| TC 9307      |     |     |    |     |     |     |    |     |     |    |
|--------------|-----|-----|----|-----|-----|-----|----|-----|-----|----|
| PIN'S NUMBER | 10  | 26  | 27 | 28  | 29  | 30  | 31 | 32  | 33  | 34 |
| MW           | 3.7 | 3.8 |    | 5.3 | 5.3 | 0   | 0  | 2.5 | 0.9 |    |
| FM           | 3.4 | 3.5 |    | 5.1 | 0   | 0   | 0  | 2.5 | 0.9 |    |
| SW           | 3.7 | 3.8 |    | 5.3 | 5.3 | 5.3 | 0  | 2.6 | 0.9 |    |
| LW           | 3.7 | 3.8 |    | 5.3 | 0   | 5.3 | 0  | 2.6 | 0.9 |    |

| TC 9307      |     |     |    |     |     |     |     |     |    |    |
|--------------|-----|-----|----|-----|-----|-----|-----|-----|----|----|
| PIN'S NUMBER | 35  | 36  | 37 | 38  | 39  | 40  | 41  | 42  | 43 | 44 |
| MW           | 5.2 | 0   | 0  | 2.7 | 5.3 | 2.5 | 2.0 | 5.0 | 0  | 0  |
| FM           | 5.2 | 2.5 | 0  | 0   | 5.0 | 2.4 | 2.0 | 5.0 | 0  | 0  |
| SW           | 5.3 | 0   | 0  | 2.7 | 5.3 | 2.5 | 2.0 | 5.3 | 0  | 0  |
| LW           | 5.3 | 0   | 0  | 2.7 | 5.3 | 2.5 | 2.0 | 5.3 | 0  | 0  |

| IC 203 (CD 4555) |   |     |     |     |   |   |   |
|------------------|---|-----|-----|-----|---|---|---|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5 | 6 | 7 |
| MW               | 0 | 0   | 5.2 | 0   | 0 | 6 | 0 |
| FM               | 0 | 0   | 0   | 6.0 | 0 | 0 | 0 |
| SW               | 0 | 5.2 | 5.2 | 0   | 0 | 0 | 6 |
| LW               | 0 | 5.2 | 0   | 0   | 6 | 0 | 0 |

| IC 102 (MC 14013) |     |   |     |            |      |     |     |     |  |
|-------------------|-----|---|-----|------------|------|-----|-----|-----|--|
| PIN'S NUMBER      | 1   | 3 | 2.5 | 4,6,7,8,10 | 9,12 | 11  | 13  | 14  |  |
| AM                | 5.7 | 0 | 5.3 | 0          | 0    | 1.1 | 5.7 | 5.7 |  |
| FM MONO           | 0.3 | 0 | 5.3 | 0          | 0    | 1.1 | 9.5 | 5.5 |  |
| FM STEREO         | 5.2 | 0 | 0   | 0          | 0    | 1.2 | 5.2 | 5.2 |  |

| IC 202 (TA 8132) |     |     |     |     |     |     |     |   |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|---|-----|
| PIN'S NUMBER     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9   |
| AM               | 5.5 | 5.5 | 5.5 | 5.2 | 5.5 | 4.9 | 0.2 | 0 | 5.5 |
| FM MONO          | 4.4 | 4.4 | 3.7 | 4.4 | 4.4 | 3.8 | 1.1 | 0 | 4.4 |
| FM STEREO        | 4.4 | 4.2 | 3.7 | 4.3 | 4.3 | 3.6 | 1.0 | 0 | 4.3 |

| TA 8132      |     |    |     |     |     |     |     |     |     |
|--------------|-----|----|-----|-----|-----|-----|-----|-----|-----|
| PIN'S NUMBER | 11  | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| AM           | 4.2 | 0  | 1.0 | 1.0 | 5.0 | 5.9 | 5.2 | 0.6 | 1.4 |
| FM MONO      | 4.1 | 0  | 1.0 | 1.0 | 3.9 | 4.1 | 4.4 | 0.6 | 0.9 |
| FM STEREO    | 0.1 | 0  | 1.0 | 1.0 | 3.6 | 3.1 | 3.5 | 0.6 | 1.1 |

| TA 8312      |     |     |     |
|--------------|-----|-----|-----|
| PIN'S NUMBER | 21  | 22  | 23  |
| AM           | 5.5 | 4.8 | 5.5 |
| FM MONO      | 4.4 | 4.3 | 4.4 |
| FM STEREO    | 4.3 | 4.1 | 4.3 |

| IC 201 (TA 7358)AP |     |     |     |     |   |     |     |
|--------------------|-----|-----|-----|-----|---|-----|-----|
| PIN'S NUMBER       | 1   | 2   | 3   | 4   | 5 | 6   | 7   |
| FM                 | 0.8 | 1.6 | 3.7 | 1.5 | 0 | 3.8 | 3.0 |

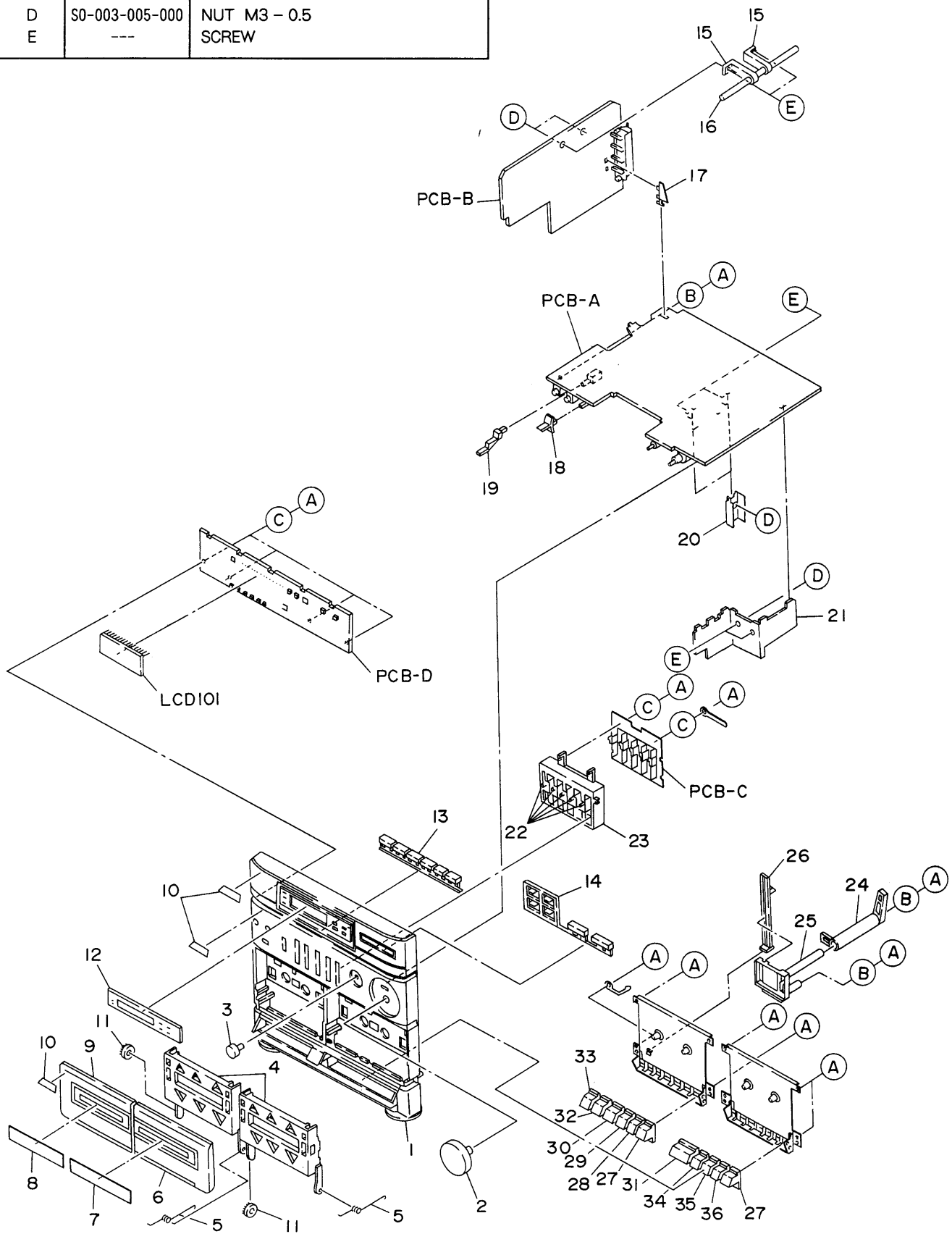
| IC 103 (TA 8148) |   |     |     |     |   |     |      |     |
|------------------|---|-----|-----|-----|---|-----|------|-----|
| PIN'S NUMBER     | 1 | 2   | 3   | 4   | 5 | 6   | 7    | 8   |
| V                | 0 | 1.5 | 5.9 | 5.9 | 0 | 7.9 | 15.3 | 4.9 |

| IC 301 (BA 3416) |   |   |   |   |     |     |     |   |
|------------------|---|---|---|---|-----|-----|-----|---|
| PIN'S NUMBER     | 1 | 2 | 3 | 4 | 5   | 6   | 7   | 8 |
| DECK 1 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 |
| DECK 2 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 |
| DECK 1 LOW       | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 0.1 | 0 |
| DECK 2 HIGH      | 0 | 0 | 0 | 0 | 0.6 | 0.6 | 1.5 | 0 |

| BA 3416      |     |     |     |     |     |    |    |    |     |
|--------------|-----|-----|-----|-----|-----|----|----|----|-----|
| PIN'S NUMBER | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18  |
| DECK 1 LOW   | 5.0 | 0.7 | 5.3 | 2.5 | 2.6 | 0  | 0  | 0  | 0.1 |
| DECK 2 HIGH  | 4.8 | 0.7 | 5.1 | 2.4 | 2.4 | 0  | 0  | 0  | 0.1 |
| DECK 1 LOW   | 4.9 | 1.8 | 5.3 | 2.6 | 2.6 | 0  | 0  | 0  | 1.7 |
| DECK 2 HIGH  | 4.8 | 1.8 | 5.1 | 2.4 | 2.5 | 0  | 0  | 0  | 1.7 |

# EXPLODED VIEW – 1

| REF. NO. | PART NO.       | DESCRIPTION                 |
|----------|----------------|-----------------------------|
| A        | S1-003-001-000 | SCREW ST3 – 10              |
| B        | ---            | METAL WASHER 3.5 – 14 – 0.5 |
| C        | ---            | FIBRE WASHER 3.5 – 8 – 0.8  |
| D        | S0-003-005-000 | NUT M3 – 0.5                |
| E        | ---            | SCREW                       |



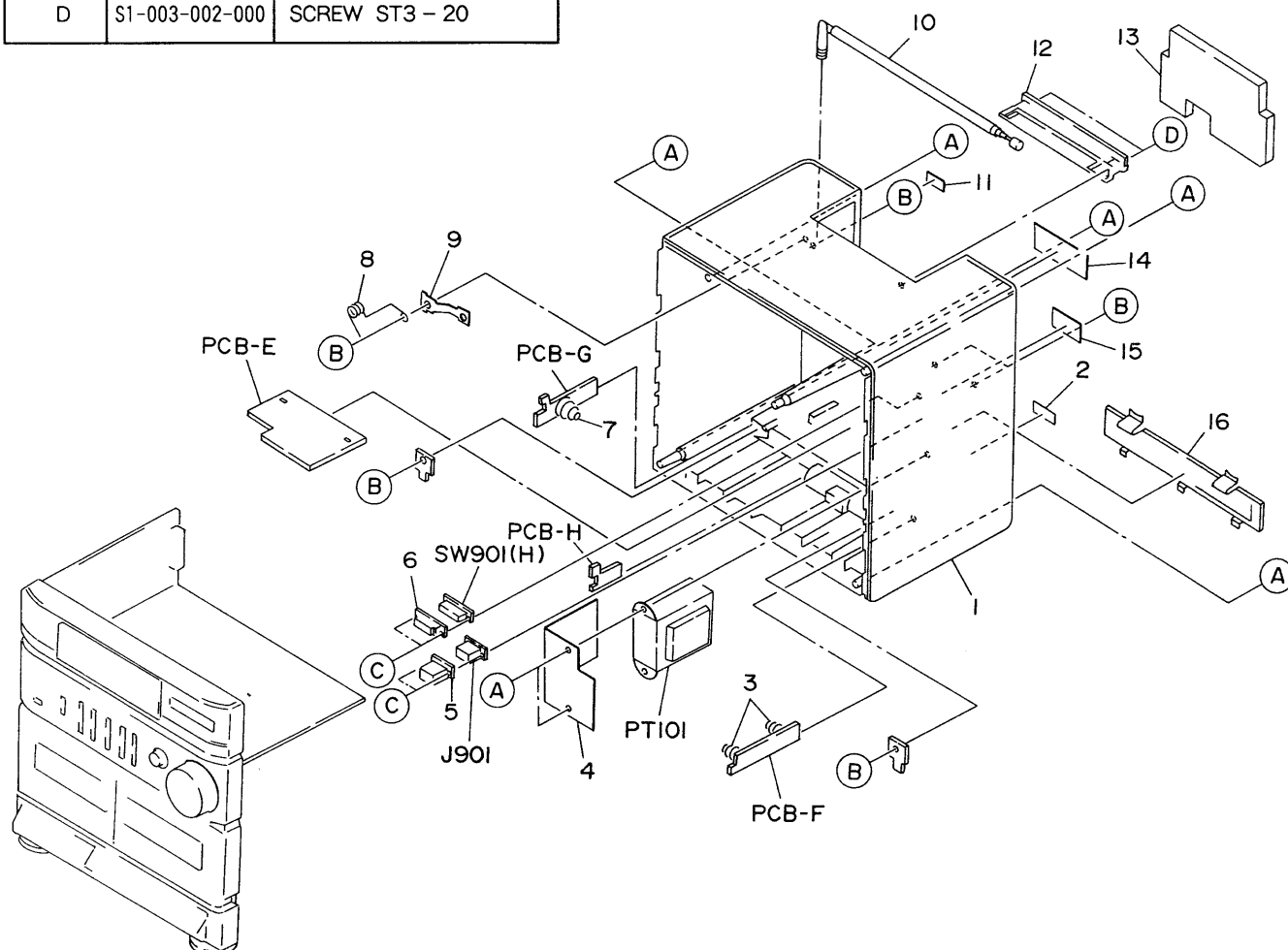


## MECHANICAL PARTS LIST

| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.        | DESCRIPTION                 | COMMON<br>MODEL | Q'TY |
|------------------------|-------------|-----------------|-----------------------------|-----------------|------|
|                        | 1-1         | ★S9-238-010-100 | PANEL, FRONT                |                 | 1    |
|                        | 1-2         | ★S9-238-070-000 | KNOB, VOLUME                |                 | 1    |
|                        | 1-3         | ★S9-238-080-000 | KNOB, BALANCE               |                 | 1    |
|                        | 1-4         | ★S9-238-030-000 | LID, CASSETTE DOOR          |                 | 2    |
|                        | 1-5         | ★S9-238-440-000 | SPRING, CASSETTE DOOR       |                 | 2    |
|                        | 1-6         | ★S9-238-050-100 | COVER, CASSTTE DOOR R       |                 | 1    |
|                        | 1-7         | ★S9-238-550-100 | LENS, CASSETTE DOOR R       |                 | 1    |
|                        | 1-8         | ★S9-238-560-100 | LENS, CASSETTE DOOR L       |                 | 1    |
|                        | 1-9         | ★S9-238-040-100 | COVER, CASSTTE DOOR L       |                 | 1    |
|                        | 1-10        | ★S9-238-280-000 | LOGO, AIWA                  |                 | 3    |
|                        | 1-11        | ★S9-238-060-000 | GEAR                        |                 | 2    |
|                        | 1-12        | ★S9-238-530-100 | LENS, FUNCTION CONTROL      |                 | 1    |
|                        | 1-13        | ★S9-238-160-100 | BUTTON, BAND PRESET PUSH    |                 | 1    |
|                        | 1-14        | ★S9-238-600-100 | BUTTON, RADIO CONTROL       |                 | 1    |
|                        | 1-15        | ★S2-500-000-000 | HOLDER, BAR ANTENNA         |                 | 2    |
|                        | 1-16        | ★S0-101-200-000 | BAR, FERRITE 10 – 120       |                 | 1    |
|                        | 1-17        | ---             | FIXED, P.C.B                |                 | 1    |
|                        | 1-18        | ★S9-238-260-000 | KNOB, FUNCTION TOGGLE       |                 | 1    |
|                        | 1-19        | ★S9-238-270-000 | BUTTON, DUBBING PUSH        |                 | 1    |
|                        | 1-20        | ---             | HEAT SINK                   |                 | 2    |
|                        | 1-21        | ---             | HEAT SINK                   |                 | 1    |
|                        | 1-22        | ★S9-238-140-000 | KNOB, EQ                    |                 | 5    |
|                        | 1-23        | ★S9-238-130-000 | BRACKET, SLIDE VOLUME       |                 | 1    |
|                        | 1-24        | ★S9-238-460-000 | PUSHER, RECORD              |                 | 1    |
|                        | 1-25        | ★S9-238-470-000 | HOLDER, RECORD PUSHER       |                 | 1    |
|                        | 1-26        | ★S9-238-480-000 | ROD, RECORD PUSHER          |                 | 1    |
|                        | 1-27        | ★S9-238-220-000 | KNOB, CASSETTE PAUSE        |                 | 2    |
|                        | 1-28        | ★S9-238-210-000 | KNOB, CASSETTE STOP/EJECT 1 |                 | 1    |
|                        | 1-29        | ★S9-238-200-000 | KNOB, CASSETTE FF 1         |                 | 1    |
|                        | 1-30        | ★S9-238-190-000 | KNOB, CASSETTE REW 1        |                 | 1    |
|                        | 1-31        | ★S9-238-180-000 | KNOB, CASSETTE PLAY B       |                 | 1    |
|                        | 1-32        | ★S9-238-230-000 | KNOB, CASSETTE PLAY A       |                 | 1    |
|                        | 1-33        | ★S9-238-170-000 | KNOB, CASSETTE RECORD       |                 | 1    |
|                        | 1-34        | ★S9-238-190-010 | KNOB, CASSETTE REW 2        |                 | 1    |
|                        | 1-35        | ★S9-238-200-010 | KNOB, CASSETTE FF 2         |                 | 1    |
|                        | 1-36        | ★S9-238-220-010 | KNOB, CASSETTE STOP/EJECT 2 |                 | 1    |

## EXPLODED VIEW – 2

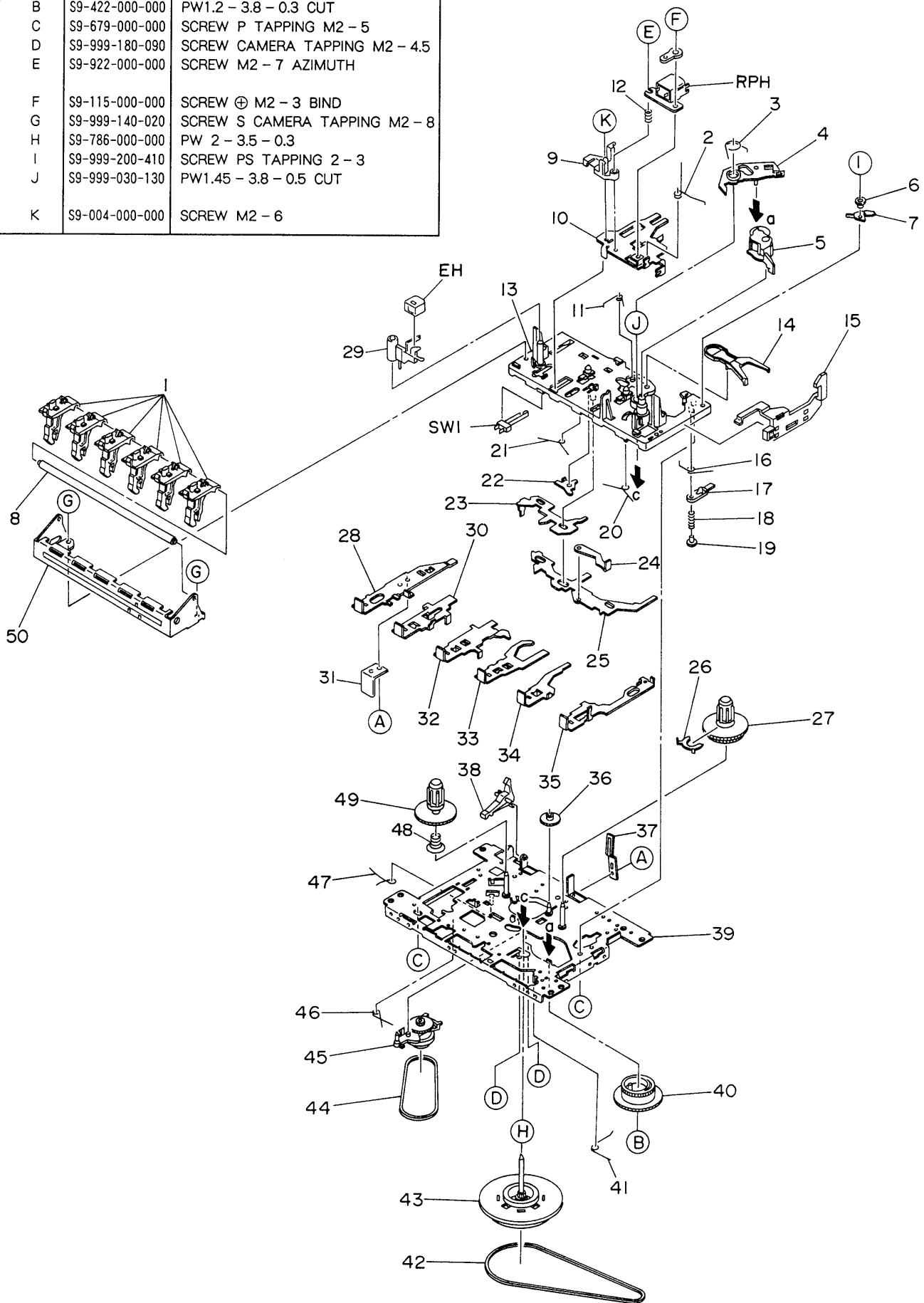
| REF. NO. | PART NO.       | DESCRIPTION      |
|----------|----------------|------------------|
| A        | S1-003-003-000 | SCREW ST3 – 30   |
| B        | S1-003-001-000 | SCREW ST3 – 10   |
| C        | S1-002-601-200 | SCREW ST2.6 – 12 |
| D        | S1-003-002-000 | SCREW ST3 – 20   |



| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.        | DESCRIPTION               | COMMON<br>MODEL | Q'TY |
|------------------------|-------------|-----------------|---------------------------|-----------------|------|
|                        | 2-1         | ★S9-238-020-000 | CABINET, REAR             |                 | 1    |
|                        | 2-2         | ★S9-238-580-000 | PLATE, VOLTAGE SWITCH     |                 | 1    |
|                        | 2-3         | ★S9-238-000-000 | SPRING, BATTERY           |                 | 2    |
|                        | 2-4         | ---             | PLATE, SHIELD             |                 | 1    |
|                        | 2-5         | ★S2-838-070-000 | COVER, AC SOCKET          |                 | 1    |
|                        | 2-6         | ★S2-838-080-000 | COVER, VOLTAGE SWITCH (H) |                 | 1    |
|                        | 2-7         | ★S9-238-300-000 | SPRING, BATTERY           |                 | 1    |
|                        | 2-8         | ★S9-238-450-000 | SPRING, ANTENNA CONNECT   |                 | 1    |
|                        | 2-9         | ★S9-238-700-000 | PLATE, ANTENNA HOLDER     |                 | 1    |
|                        | 2-10        | ★S0-196-380-000 | ROD, ANTENNA              |                 | 1    |
|                        | 2-11        | ★S9-238-710-000 | PLATE, ANTENNA COVER      |                 | 1    |
|                        | 2-12        | ★S9-238-290-000 | HANDLE                    |                 | 1    |
|                        | 2-13        | ★S9-238-430-000 | COVER, BACK               |                 | 1    |
|                        | 2-14        | ★S9-238-570-400 | PLATE, BACK (H, K)        |                 | 1    |
|                        | 2-14        | ★S9-238-570-600 | PLATE, BACK (E, Z)        |                 | 1    |
|                        | 2-15        | ---             | PLATE, JACK               |                 | 1    |
|                        | 2-16        | ★S0-238-420-000 | DOOR, BATTERY             |                 | 1    |

# EXPLODED VIEW – 3

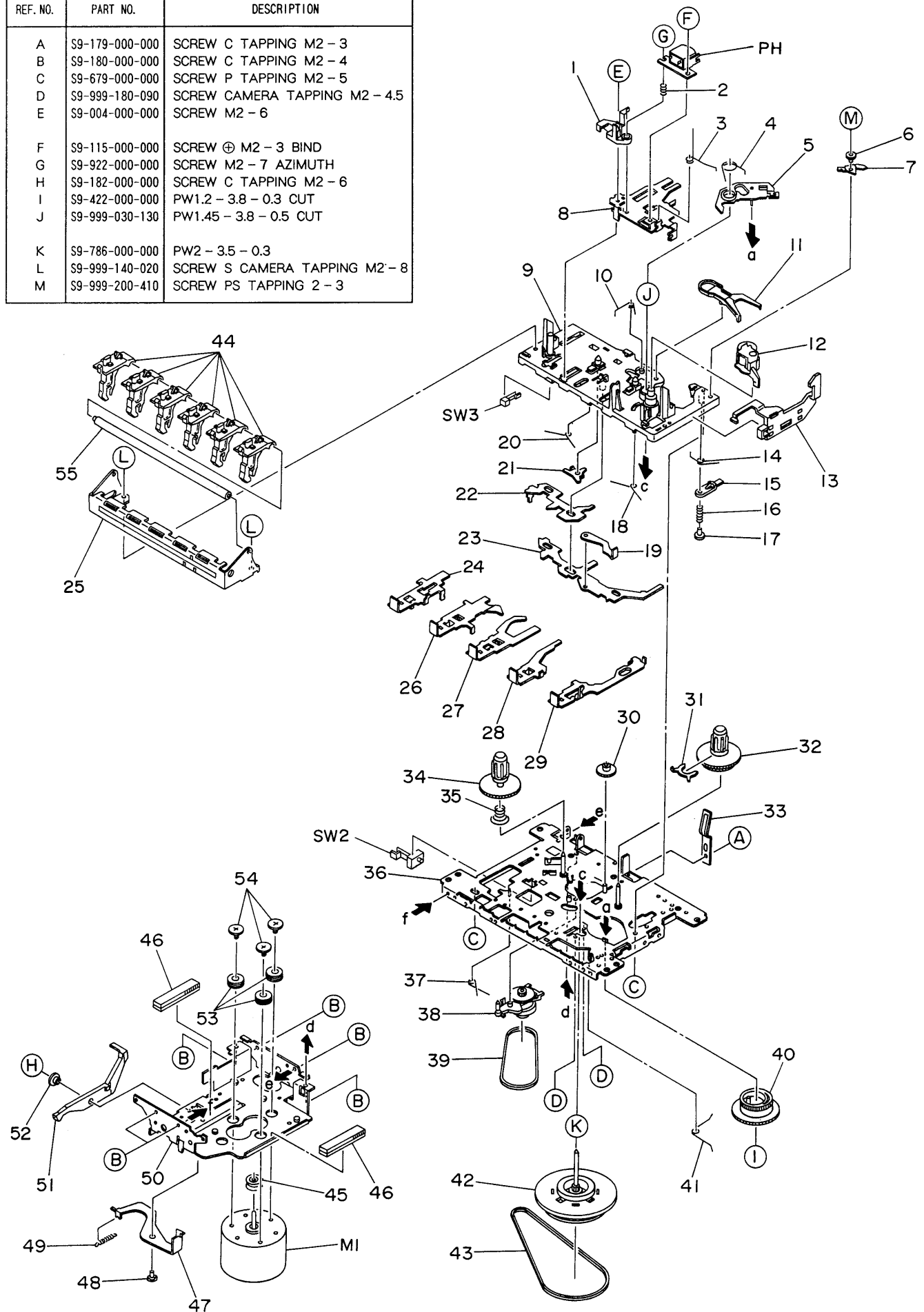
| REF. NO. | PART NO.       | DESCRIPTION                   |
|----------|----------------|-------------------------------|
| A        | S9-179-000-000 | SCREW C TAPPING M2 – 3        |
| B        | S9-422-000-000 | PW1.2 – 3.8 – 0.3 CUT         |
| C        | S9-679-000-000 | SCREW P TAPPING M2 – 5        |
| D        | S9-999-180-090 | SCREW CAMERA TAPPING M2 – 4.5 |
| E        | S9-922-000-000 | SCREW M2 – 7 AZIMUTH          |
| F        | S9-115-000-000 | SCREW ⊕ M2 – 3 BIND           |
| G        | S9-999-140-020 | SCREW S CAMERA TAPPING M2 – 8 |
| H        | S9-786-000-000 | PW 2 – 3.5 – 0.3              |
| I        | S9-999-200-410 | SCREW PS TAPPING 2 – 3        |
| J        | S9-999-030-130 | PW1.45 – 3.8 – 0.5 CUT        |
| K        | S9-004-000-000 | SCREW M2 – 6                  |



| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.        | DESCRIPTION              | COMMON<br>MODEL | Q'TY |
|------------------------|-------------|-----------------|--------------------------|-----------------|------|
|                        | 3-1         | ★S1-821-310-070 | LEVER, OPERATION         |                 | 6    |
|                        | 3-2         | ★S1-921-030-030 | P – SPRING, PANEL        |                 | 1    |
|                        | 3-3         | ★S1-921-260-050 | SPRING, GEAR PLATE       |                 | 1    |
|                        | 3-4         | ★S1-921-265-020 | GEAR PLATE ASSY          |                 | 1    |
|                        | 3-5         | ★S1-921-043-090 | PINCH ROLLER ARM ASSY    |                 | 1    |
|                        | 3-6         | ★S1-921-140-370 | COLLAR, P ARM            |                 | 1    |
|                        | 3-7         | ★S1-921-140-340 | ARM, P                   |                 | 1    |
|                        | 3-8         | ★S1-829-310-030 | SHAFT, BUTTON LEVER      |                 | 1    |
|                        | 3-9         | ★S1-921-030-4A0 | BASE, HEAD               |                 | 1    |
|                        | 3-10        | ★S1-921-030-110 | PANEL, HEAD              |                 | 1    |
|                        | 3-11        | ★S1-921-140-180 | M – SPRING, CONTROL      |                 | 1    |
|                        | 3-12        | ★S1-821-030-070 | SPRING, AZIMUTH          |                 | 1    |
|                        | 3-13        | ★S1-921-143-010 | BASE ASSY                |                 | 1    |
|                        | 3-14        | ★S1-921-260-040 | LEVER, SENSING           |                 | 1    |
|                        | 3-15        | ★S1-921-130-020 | LEVER, EJECT SLIDE       |                 | 1    |
|                        | 3-16        | ★S1-921-141-3A0 | P – SPRING, CONTROL      |                 | 1    |
|                        | 3-17        | ★S1-921-140-550 | LEVER, PAUSE E           |                 | 1    |
|                        | 3-18        | ★S1-921-140-120 | SPRING, PAUSE LEVER      |                 | 1    |
|                        | 3-19        | ★S1-921-140-110 | STOPPER, PAUSE           |                 | 1    |
|                        | 3-20        | ★S1-921-140-150 | SPRING, BUTTON LEVER B   |                 | 1    |
|                        | 3-21        | ★S1-921-140-140 | SPRING, BUTTON LEVER A   |                 | 1    |
|                        | 3-22        | ★S1-921-140-200 | STOPPER, PR              |                 | 1    |
|                        | 3-23        | ★S1-921-140-090 | ACTUATOR, SWITCH         |                 | 1    |
|                        | 3-24        | ★S1-821-011-590 | LEVER, E KICK            |                 | 1    |
|                        | 3-25        | ★S1-921-140-080 | ACTUATOR, PUSH BUTTON    |                 | 1    |
|                        | 3-26        | ★S1-921-050-060 | SENSOR                   |                 | 1    |
|                        | 3-27        | ★S1-921-053-030 | TAKE UP REEL ASSY        |                 | 1    |
|                        | 3-28        | ★S1-921-140-220 | LEVER, REC BUTTON        |                 | 1    |
|                        | 3-29        | ★S1-921-030-050 | ARM, MG                  |                 | 1    |
|                        | 3-30        | ★S1-921-140-230 | LEVER, PLAY BUTTON       |                 | 1    |
|                        | 3-31        | ★S1-510-020-020 | PLATE, REC SPRING        |                 | 1    |
|                        | 3-32        | ★S1-921-140-240 | LEVER, REW BUTTON        |                 | 1    |
|                        | 3-33        | ★S1-921-140-250 | LEVER, FF BUTTON         |                 | 1    |
|                        | 3-34        | ★S1-921-140-260 | LEVER, STOP BUTTON       |                 | 1    |
|                        | 3-35        | ★S1-921-140-610 | LEVER, PAUSE BUTTON      |                 | 1    |
|                        | 3-36        | ★S1-821-100-700 | GEAR, FF                 |                 | 1    |
|                        | 3-37        | ★S1-829-100-010 | SPRING, PACK             |                 | 1    |
|                        | 3-38        | ★S1-821-100-690 | LEVER, REC SAFETY        |                 | 1    |
|                        | 3-39        | ---             | CHASSIS ASSY             |                 | 1    |
|                        | 3-40        | ★S1-921-260-020 | GEAR, CAM                |                 | 1    |
|                        | 3-41        | ★S1-921-140-160 | E – SPRING, ACTUATOR     |                 | 1    |
|                        | 3-42        | ★S1-921-090-240 | BELT, MAIN               |                 | 1    |
|                        | 3-43        | ★S1-921-093-030 | FLYWHEEL ASSY            |                 | 1    |
|                        | 3-44        | ★S1-921-070-030 | BELT, RF                 |                 | 1    |
|                        | 3-45        | ★S1-921-073-020 | RF CLUTCH ASSY           |                 | 1    |
|                        | 3-46        | ★S1-921-140-170 | SPRING, PS LEVER         |                 | 1    |
|                        | 3-47        | ★S1-921-140-210 | SPRING, REC BUTTON LEVER |                 | 1    |
|                        | 3-48        | ★S1-829-100-100 | SPRING, BACK TENSION     |                 | 1    |
|                        | 3-49        | ★S1-921-053-040 | SUPPLY REEL ASSY         |                 | 1    |
|                        | 3-50        | ★S1-821-310-060 | FRAME, BUTTON S          |                 | 1    |

# EXPLODED VIEW - 4

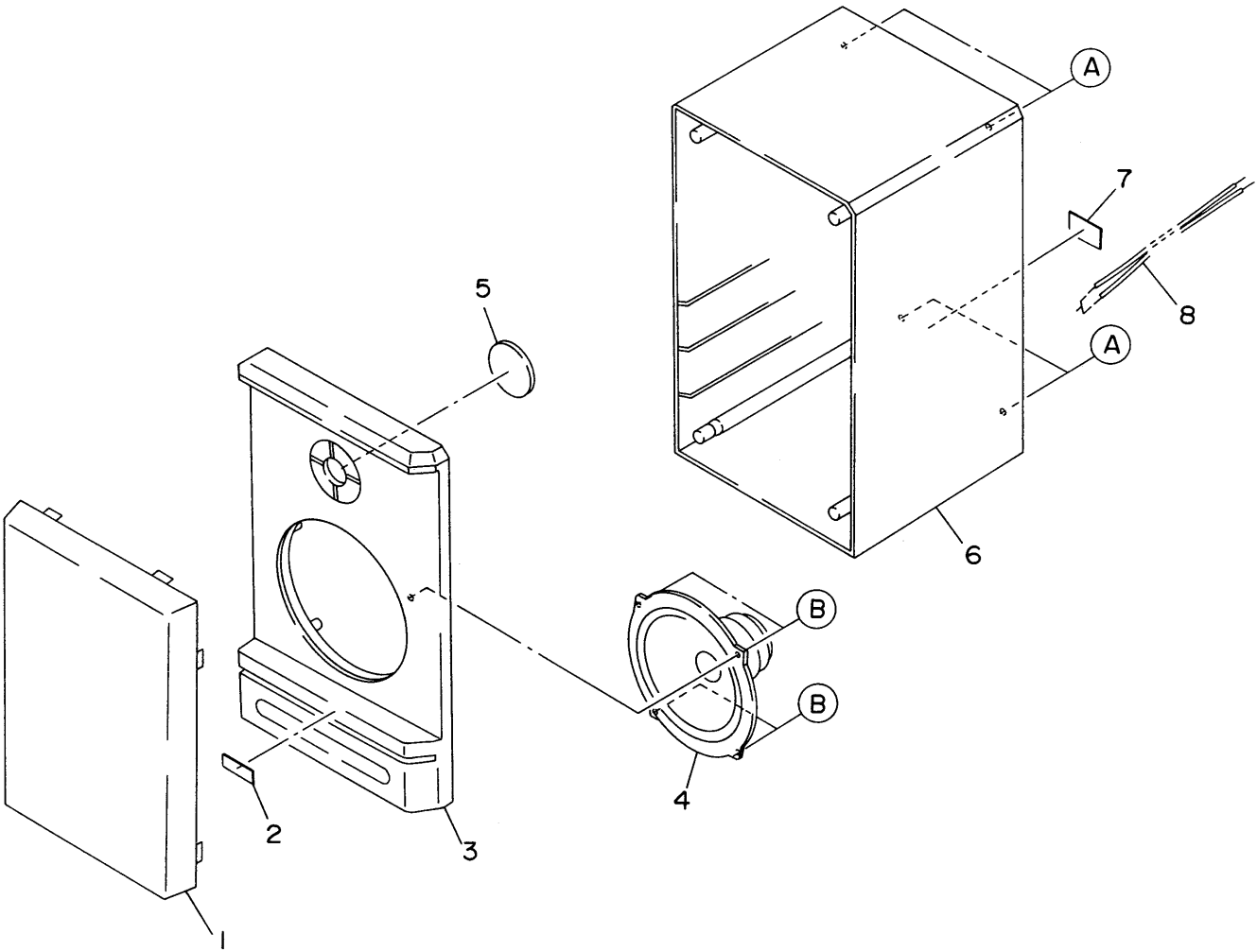
| REF. NO. | PART NO.       | DESCRIPTION                   |
|----------|----------------|-------------------------------|
| A        | S9-179-000-000 | SCREW C TAPPING M2 - 3        |
| B        | S9-180-000-000 | SCREW C TAPPING M2 - 4        |
| C        | S9-679-000-000 | SCREW P TAPPING M2 - 5        |
| D        | S9-999-180-090 | SCREW CAMERA TAPPING M2 - 4.5 |
| E        | S9-004-000-000 | SCREW M2 - 6                  |
| F        | S9-115-000-000 | SCREW ⊕ M2 - 3 BIND           |
| G        | S9-922-000-000 | SCREW M2 - 7 AZIMUTH          |
| H        | S9-182-000-000 | SCREW C TAPPING M2 - 6        |
| I        | S9-422-000-000 | PW1.2 - 3.8 - 0.3 CUT         |
| J        | S9-999-030-130 | PW1.45 - 3.8 - 0.5 CUT        |
| K        | S9-786-000-000 | PW2 - 3.5 - 0.3               |
| L        | S9-999-140-020 | SCREW S CAMERA TAPPING M2 - 8 |
| M        | S9-999-200-410 | SCREW PS TAPPING 2 - 3        |



| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.        | DESCRIPTION            | COMMON<br>MODEL | Q'TY |
|------------------------|-------------|-----------------|------------------------|-----------------|------|
|                        | 4-1         | ★S1-921-030-4A0 | BASE, HEAD             |                 | 1    |
|                        | 4-2         | ★S1-821-030-070 | SPRING, AZIMUTH        |                 | 1    |
|                        | 4-3         | ★S1-921-030-030 | P – SPRING, PANEL      |                 | 1    |
|                        | 4-4         | ★S1-921-260-050 | SPRING, GEAR PLATE     |                 | 1    |
|                        | 4-5         | ★S1-921-265-020 | GEAR PLATE ASSY        |                 | 1    |
|                        | 4-6         | ★S1-921-140-370 | COLLAR, P ARM          |                 | 1    |
|                        | 4-7         | ★S1-921-140-340 | ARM, P                 |                 | 1    |
|                        | 4-8         | ★S1-921-030-110 | PANEL, HEAD            |                 | 1    |
|                        | 4-9         | ★S1-921-143-010 | BASE ASSY              |                 | 1    |
|                        | 4-10        | ★S1-921-140-180 | M – SPRING, CONTROL    |                 | 1    |
|                        | 4-11        | ★S1-921-260-040 | LEVER, SENSING         |                 | 1    |
|                        | 4-12        | ★S1-921-043-090 | PINCH ROLLER ARM ASSY  |                 | 1    |
|                        | 4-13        | ★S1-921-130-020 | LEVER, EJECT SLIDE     |                 | 1    |
|                        | 4-14        | ★S1-921-141-3A0 | P – SPRING, CONTROL    |                 | 1    |
|                        | 4-15        | ★S1-921-140-550 | LEVER, PAUSE E         |                 | 1    |
|                        | 4-16        | ★S1-921-140-120 | SPRING, PAUSE LEVER    |                 | 1    |
|                        | 4-17        | ★S1-921-140-110 | STOPPER, PAUSE         |                 | 1    |
|                        | 4-18        | ★S1-921-140-150 | SPRING, BUTTON LEVER B |                 | 1    |
|                        | 4-19        | ★S1-821-011-590 | LEVER, E KICK          |                 | 1    |
|                        | 4-20        | ★S1-921-140-140 | SPRING, BUTTON LEVER A |                 | 1    |
|                        | 4-21        | ★S1-921-140-200 | STOPPER, PR            |                 | 1    |
|                        | 4-22        | ★S1-921-140-090 | ACTUATOR, SWITCH       |                 | 1    |
|                        | 4-23        | ★S1-921-140-080 | ACTUATOR, PUSH BUTTON  |                 | 1    |
|                        | 4-24        | ★S1-921-140-230 | LEVER, PLAY BUTTON     |                 | 1    |
|                        | 4-25        | ★S1-821-310-060 | FRAME, BUTTON S        |                 | 1    |
|                        | 4-26        | ★S1-921-140-240 | LEVER, REW BUTTON      |                 | 1    |
|                        | 4-27        | ★S1-921-140-250 | LEVER, FF BUTTON       |                 | 1    |
|                        | 4-28        | ★S1-921-140-260 | LEVER, STOP BUTTON     |                 | 1    |
|                        | 4-29        | ★S1-921-140-610 | LEVER, PAUSE BUTTON    |                 | 1    |
|                        | 4-30        | ★S1-821-100-700 | GEAR, FF               |                 | 1    |
|                        | 4-31        | ★S1-921-050-060 | SENSOR                 |                 | 1    |
|                        | 4-32        | ★S1-921-053-030 | TAKE UP REEL ASSY      |                 | 1    |
|                        | 4-33        | ★S1-829-100-010 | SPRING, PACK           |                 | 1    |
|                        | 4-34        | ★S1-921-053-040 | SUPPLY REEL ASSY       |                 | 1    |
|                        | 4-35        | ★S1-829-100-100 | SPRING, BACK TENSION   |                 | 1    |
|                        | 4-36        | ---             | CHASSIS ASSY           |                 | 1    |
|                        | 4-37        | ★S1-921-140-170 | SPRING, PS LEVER       |                 | 1    |
|                        | 4-38        | ★S1-921-073-020 | RF CLUTCH ASSY         |                 | 1    |
|                        | 4-39        | ★S1-921-070-030 | BELT, RF               |                 | 1    |
|                        | 4-40        | ★S1-921-260-020 | GEAR, CAM              |                 | 1    |
|                        | 4-41        | ★S1-921-140-160 | E – SPRING, ACTUATOR   |                 | 1    |
|                        | 4-42        | ★S1-921-093-040 | FLYWHEEL ASSY          |                 | 1    |
|                        | 4-43        | ★S1-921-090-240 | BELT, MAIN             |                 | 1    |
|                        | 4-44        | ★S1-821-310-070 | LEVER, OPERATION       |                 | 6    |
|                        | 4-45        | ★S1-921-120-130 | PULLEY, MOTOR          |                 | 1    |
|                        | 4-46        | ---             | MAT, FELT              |                 | 2    |
|                        | 4-47        | ★S1-821-120-680 | LEVER, P KICK A        |                 | 1    |
|                        | 4-48        | ★S1-821-120-230 | SCREW, PK COLLAR A     |                 | 1    |
|                        | 4-49        | ★S1-821-120-250 | P – SPRING, KICK LEVER |                 | 1    |
|                        | 4-50        | ★S1-921-120-110 | BRACKET, MOTOR         |                 | 1    |
|                        | 4-51        | ★S1-921-120-090 | LEVER, P KICK B        |                 | 1    |
|                        | 4-52        | ★S1-821-120-650 | COLLAR, B              |                 | 1    |
|                        | 4-53        | ★S1-820-130-060 | RUBBER, MOTOR          |                 | 3    |
|                        | 4-54        | ★S1-821-120-020 | SCREW, MOTOR COLLAR    |                 | 3    |
|                        | 4-55        | ★S1-829-310-030 | SHAFT, BUTTON LEVER    |                 | 1    |

EXPLODED VIEW – 5

| REF. NO. | PART NO.       | DESCRIPTION    |
|----------|----------------|----------------|
| A        | S1-003-003-000 | SCREW ST3 – 30 |
| B        | S0-403-001-000 | SCREW 3 – 10   |



| PART NO.<br>CHANGED TO | REF.<br>NO. | PART NO.        | DESCRIPTION         | COMMON<br>MODEL | Q'TY |
|------------------------|-------------|-----------------|---------------------|-----------------|------|
|                        | 5-1         | ★S9-238-400-000 | GRILL, SPEAKER      |                 | 1    |
|                        | 5-2         | ★S9-938-290-000 | PLATE, LOGO         |                 | 1    |
|                        | 5-3         | ★S9-238-100-100 | BOX, FRONT SPEAKER  |                 | 1    |
|                        | 5-4         | ★S5-040-080-100 | SPEAKER             |                 | 1    |
|                        | 5-5         | ★S3-270-010-000 | BUZZER              |                 | 1    |
|                        | 5-6         | ★S9-238-110-000 | BOX, BACK SPEAKER R |                 | 1    |
|                        | 5-6         | ★S9-238-120-000 | BOX, BACK SPEAKER L |                 | 1    |
|                        | 5-7         | ★S9-938-400-000 | PLATE, GATE         |                 | 1    |
|                        | 5-8         | ★S0-020-206-010 | WIRE, SPEAKER       |                 | 1    |