

# AIWA®

# SERVICE MANUAL

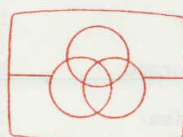
S/M Code No. 84-006

DATE OF ISSUE 2/1984

**STEREO CASSETTE PLAYER  
WITH FM/AM STEREO  
TUNER PACK**

MODEL NO.

## HS-P06



Free service manuals  
Gratis schema's

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## TYPE. Y

Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of service.

1. No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.
2. When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.
3. The following matters shall be maintained as they are, when repairing.
  - 1) Soldering of lead-wire ends
  - 2) Wiring and holding of lead-wires with wire-clips and binders
  - 3) Materials of lead-wires
  - 4) Location of all kinds of insulators
4. General instructions for mechanism repair
  - 1) The heads, capstan and pinch roller shall be cleaned of good quality alcohol after repaired, because dirty heads shall cause distorted sounds while dirty capstan and pinch roller shall occur wow/flutter and take-up fault.
  - 2) Lubricants been stained the surfaces of transmitting portion of the belts, idlers, capstan and pinch roller shall be removed, because slippery and faulty tape travel shall be caused.
  - 3) When oiling, only one or two drops shall be applied so as not to run over and be dispersed. Note should be taken of the metal fitting for the capstan and rotating portions of the idlers and pinch roller, especially.
  - 4) E-rings and poly slider washers shall be replaced with new ones, if once those have been removed. — No re-utilization due to unreliability.
  - 5) Regular spare-parts shall always be used for repair, because using irregular parts and tampering with the products shall cause deterioration, malfunction and damage.

## SPECIFICATIONS

**Power source:** Batteries, DC 3V R03(LR03, AAA)\*2  
Domestic AC power  
[thru optional AC adaptor]

**Battery life under continuous use:**  
EIAJ - 1mW output, playback mode  
Approx. 5 hours (Using manganese R03 batteries—UM-4, AAA batteries or equivalent)  
Approx. 10 hours (Using alkaline LR03 batteries—AM-4, AAA batteries or equivalent)  
Radio reception (FM STEREO)  
Approx. 17 hours (Using manganese R03 batteries—UM-4, AAA batteries or equivalent)  
Approx. 34 hours (Using alkaline LR03 batteries—AM-4, AAA batteries or equivalent)

**Dimensions:** 108(W)\*80(H)\*24.8(D)mm  
(4 1/4" x 3 1/8" x 1")

**Maximum dimensions:** 109.5(W)\*81.5(H)\*25.2(D)mm  
(4 3/8" x 3 1/4" x 1")

**Weight:** 215g (0.47 lbs)

### < TUNER PACK SECTION >

**Circuitry:** Superheterodyne

**Frequency range:** FM 87.4~108.3 MHz  
AM 517~1650 kHz

**Intermediate frequency:**  
FM 10.7 MHz  
AM 468±4 kHz

**Sensitivity: (THD 3%)**  
FM 14±4 dB (at 88 MHz)  
14±5 dB (at 98 MHz)  
15±4 dB (at 108 MHz)  
(S/N 3dB) AM 39±4 dB (at 600 kHz)  
37±6 dB (at 1,000 kHz)  
35±5 dB (at 1,440 kHz)

**Image rejection:** FM 20±10 dB (at 108 MHz)  
AM 35±10 dB (at 1,440 kHz)

**IF rejection:** FM More than 60 dB (at 88 MHz)  
AM 40±6 dB (at 600 kHz)

**Separation:** 27±6 dB (at 98 MHz)

**Antenna:** FM Head phone antenna  
AM Ferrite bar antenna

### < CASSETTE PLAYER SECTION >

**Track type:** 4 tracks, 2 channels

**Tape speed:** 4.8 cm/s.

**Signal to noise ratio:** 51±4 dB (DC) P.B.  
(Unweighted) 50±4 dB (AC) P.B.

**Frequency response:** 40~12,500 Hz (NORMAL)  
40~16,000 Hz (METAL)

**Output power:** 20 mW+20 mW (EIAJ/DC)

**Noises level:** Less than 9 mV/  
Less than 10 mV (DC/AC VOL MAX)  
Less than 0.5 mV (DC/AC VOL MIN)  
Less than 2.5% (PB)

**Distortion:** DC servo motor

**Motor:** Super permalloy head (PH)

**Head:** Full silent auto stop

**Automatic stop system:** 1±1s.

**Automatic stop time:** 0.3% (WRMS)

**Wow & flutter:** 220±25g (2.16±0.24 N)

**Pinch roller pressure:** 30<sup>+15</sup><sub>-5</sub> g-cm (3<sup>+1.47</sup><sub>-0.49</sub> mN·m)

**Take-up torque:** More than 80 g-cm  
(More than 0.78 mN·m)

**FF torque:** More than 80 g-cm  
(More than 0.78 mN·m)

**Rewind torque:** 100±20s.

**Rewind time:** 110±20s.

**FF time:** Headphone jack (3.5φ) x1

**Output:**

### < HEADPHONE SECTION >

**Type:** Dynamic type

**Impedance:** 29 ohms

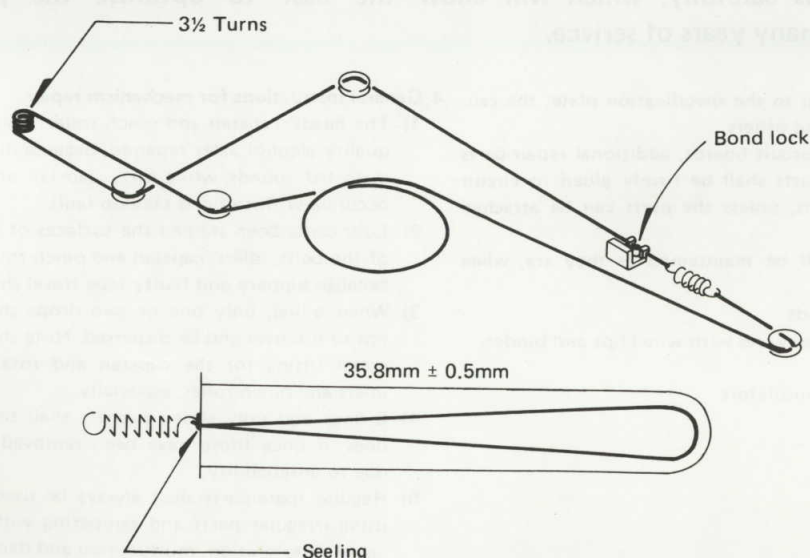
**Frequency response:** 50~20,000 Hz

**Sensitivity:** 107 dB/mW

**Maximum input:** 100 mW

• The specifications and external appearance of this set are subject to change without prior notice.

## DIAL CORD STRINGING



ELECTRICAL MAIN PARTS LIST

■“★★★” shows unavailable Repair Part.

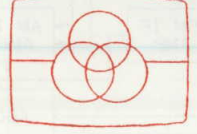
| Symbol No.                            | Part No.   | Description                  | Remark |
|---------------------------------------|------------|------------------------------|--------|
| < DECK CIRCUIT BOARD SECTION >        |            |                              |        |
| PCB-A                                 | 82-673-601 | DECK CIRCUIT BOARD           |        |
| IC1                                   | 87-020-014 | IC. TA7709F                  |        |
| IC2                                   | 87-020-159 | IC. CX-20085                 |        |
| IC3                                   | 87-027-877 | IC. TA7688F                  |        |
| Q1.3                                  | 89-111-624 | TRANSISTOR. 2SA1162Y         |        |
| Q2                                    | 89-327-125 | TRANSISTOR. 2SC2712GR        |        |
| D1.2,4,5,6                            | 87-020-027 | CHIP DIODE. 1SS184           |        |
| D3                                    | 87-027-636 | LED. TLR226(OPERATE)         |        |
| L1.5,6                                | 87-003-089 | CHOKE COIL. 47μH             |        |
| L2                                    | 87-003-096 | CHOKE COIL. 3.9μH            |        |
| L3,4                                  | 87-003-095 | CHOKE COIL. 5.6μH            |        |
| SFR1.2                                | 87-021-873 | SEMI-FIXED RESISTOR. 500Ω-B  |        |
| VR1                                   | 87-021-793 | VOLUME. 20kΩ-A(VOLUME)       |        |
| J1                                    | 87-049-351 | JACK. 3.5φ(PHONES)           |        |
| J2                                    | 82-670-602 | DC JACK(DC3V)                |        |
| S1                                    | 82-673-603 | SLIDE SWITCH(FUNCTION)       |        |
| S2.3                                  | 87-031-816 | SLIDE SWITCH(DOLBY-NR. TAPE) |        |
| S4                                    | 82-670-603 | LEAF SWITCH(POWER)           |        |
| CP1                                   | 87-020-088 | PHOTO SENSOR NJL5141E-B AB   |        |
| < CAPACITORS >                        |            |                              |        |
| C1.2                                  | 87-015-775 | 820pF CHIP CAPACITOR         |        |
| C3,4,102,105                          | 87-010-114 | 47μF 4V ELECTROLYTIC         |        |
| C5,6                                  | 87-015-883 | 0.022μF CHIP CAPACITOR       |        |
| C7,8                                  | 87-015-632 | 0.015μF CHIP CAPACITOR       |        |
| C9,10                                 | 87-015-933 | 1μF 10V TANTALUM             |        |
| C11,12,15,16                          | 87-015-819 | 0.01μF CHIP CAPACITOR        |        |
| C13,14,17,18                          | 87-015-924 | 0.33μF 25V TANTALUM          |        |
| C19,20                                | 87-015-922 | 0.1μF 35V TANTALUM           |        |
| C21,22,114                            | 87-010-071 | 1μF 50V ELECTROLYTIC         |        |
| C23,24                                | 87-015-627 | 1000pF CHIP CAPACITOR        |        |
| C25,26                                | 87-010-109 | 0.22μF CHIP CAPACITOR        |        |
| C27,28,104,107,108                    | 87-010-082 | 220μF 4V ELECTROLYTIC        |        |
| C101,109                              | 87-010-115 | 100μF 4V ELECTROLYTIC        |        |
| C103                                  | 87-010-075 | 10μF 16V ELECTROLYTIC        |        |
| C106,113                              | 87-010-076 | 22μF 6.3V ELECTROLYTIC       |        |
| C110                                  | 87-015-754 | 18pF CHIP CAPACITOR          |        |
| C115                                  | 87-015-979 | 33μF 4V ELECTROLYTIC         |        |
| C116                                  | 87-015-440 | 4.7μF 3.15V TANTALUM         |        |
| < TUNER BLOCK CIRCUIT BOARD SECTION > |            |                              |        |
| PCB-B                                 | 81-193-601 | TUNER BLOCK CIRCUIT BOARD    |        |
| IC1                                   | 87-020-143 | IC. TA7358F                  |        |
| IC2                                   | 87-020-166 | IC. TA7687F                  |        |
| IC3                                   | 87-020-167 | IC. TA7342F                  |        |

| Symbol No.                    | Part No.   | Description                                      | Remark |
|-------------------------------|------------|--------------------------------------------------|--------|
| Q1                            | 89-327-143 | TRANSISTOR. 2SC2714(O)                           |        |
| Q2                            | 89-501-602 | FET. 2SK160(K5)                                  |        |
| Q3,4,5                        | 89-327-125 | TRANSISTOR. 2SC2712(GR)                          |        |
| D1                            | 87-017-004 | DIODE. SD117                                     |        |
| LED1                          | 87-027-262 | LED. TLR-124(TUNING)                             |        |
| L1                            | 87-003-092 | CHOKE COIL                                       |        |
| L2                            | 87-006-069 | FM ANTENNA COIL                                  |        |
| L3                            | 87-007-142 | FM OSC COIL                                      |        |
| L4                            | 81-193-602 | AM BAR ANTENNA                                   |        |
| L5                            | 87-007-130 | AM OSC COIL                                      |        |
| L6                            | 87-003-089 | CHOKE COIL. 47μH                                 |        |
| S1                            | 87-031-825 | SLIDE SWITCH (BAND SELECTOR)                     |        |
| VC1,2,3,4                     | 87-011-157 | PVC. 20pF                                        |        |
| IFT1                          | 87-008-278 | FM IFT                                           |        |
| IFT2                          | 87-008-279 | AM IFT                                           |        |
| IFT3                          | 87-008-269 | FM QUAD COIL                                     |        |
| IFT4                          | 87-008-268 | AM IFT                                           |        |
| CF1,2                         | 87-008-229 | FM CERAMIC FILTER (10.7MHz) (except YZS,YZB,YZR) |        |
| CF1,2                         | 87-008-277 | FM CERAMIC FILTER (10.7MHz) (YZS,YZB,YZR only)   |        |
| CF3                           | 87-008-280 | CERAMIC FILTER. 468kHz                           |        |
| BPF1                          | 87-030-092 | BAND-PASS FILTER                                 |        |
| TC1,2,3                       | 87-011-154 | CERAMIC TRIMMER. 6pF                             |        |
| TC4                           | 87-011-155 | CERAMIC TRIMMER. 10pF                            |        |
| SFR1                          | 87-021-677 | SEMI-FIXED RESISTOR 10kΩ-B                       |        |
|                               | 81-193-603 | CONNECTOR. 6P                                    |        |
| < CAPACITORS >                |            |                                                  |        |
| C1                            | 87-015-764 | 100pF CHIP CAPACITOR                             |        |
| C2                            | 87-010-108 | 20pF CHIP CAPACITOR                              |        |
| C3                            | 87-015-746 | 5pF CHIP CAPACITOR                               |        |
| C4                            | 87-015-835 | 0.047μF CHIP CAPACITOR                           |        |
| C5,10,11,12,13,14,16,21,27,41 | 87-015-819 | 0.01μF CHIP CAPACITOR                            |        |
| C6,18                         | 87-015-818 | 4700pF CHIP CAPACITOR                            |        |
| C7                            | 87-015-831 | 6800pF CHIP CAPACITOR                            |        |
| C8                            | 87-010-093 | 15pF CHIP CAPACITOR                              |        |
| C9                            | 87-015-880 | 2pF CHIP CAPACITOR                               |        |
| C15                           | 87-015-770 | 330pF CHIP CAPACITOR                             |        |
| C17,40                        | 87-010-082 | 220μF 4V ELECTROLYTIC                            |        |
| C19,20,22,24                  | 87-015-883 | 0.022μF CHIP CAPACITOR                           |        |
| C23                           | 87-010-117 | 6pF CHIP CAPACITOR                               |        |
| C25                           | 87-010-076 | 22μF 6.3V ELECTROLYTIC                           |        |
| C26,28,31,39                  | 87-010-071 | 1μF 50V ELECTROLYTIC                             |        |
| C29                           | 87-015-968 | 4.7μF 16V ELECTROLYTIC                           |        |
| C30                           | 87-015-785 | 0.1μF CHIP CAPACITOR                             |        |
| C32                           | 87-010-073 | 3.3μF 25V ELECTROLYTIC                           |        |
| C33                           | 87-010-074 | 4.7μF 35V ELECTROLYTIC                           |        |
| C34                           | 87-014-057 | 1000pF PP                                        |        |
| C35,36                        | 87-015-882 | 0.012μF CHIP CAPACITOR (except YUB)              |        |

| Symbol No. | Part No.   | Description                       | Remark |
|------------|------------|-----------------------------------|--------|
| C35,36     | 87-015-823 | 0.018μF CHIP CAPACITOR (YUB only) |        |
| C37,38     | 87-010-070 | 0.47μF 50V ELECTROLYTIC           |        |
| C42        | 87-010-108 | 20pF CHIP CAPACITOR (YFB only)    |        |
| C43        | 87-015-764 | 100pF CHIP CAPACITOR (YUB only)   |        |

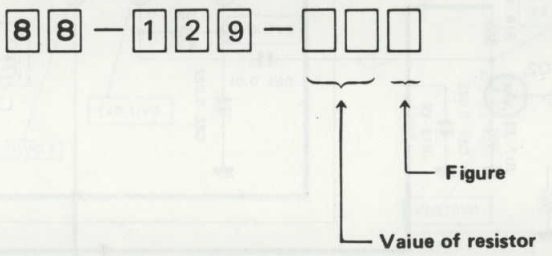
< MISCELLANEOUS >

|    |            |         |
|----|------------|---------|
| M1 | 82-670-606 | MOTOR   |
| PH | 82-670-604 | PB HEAD |



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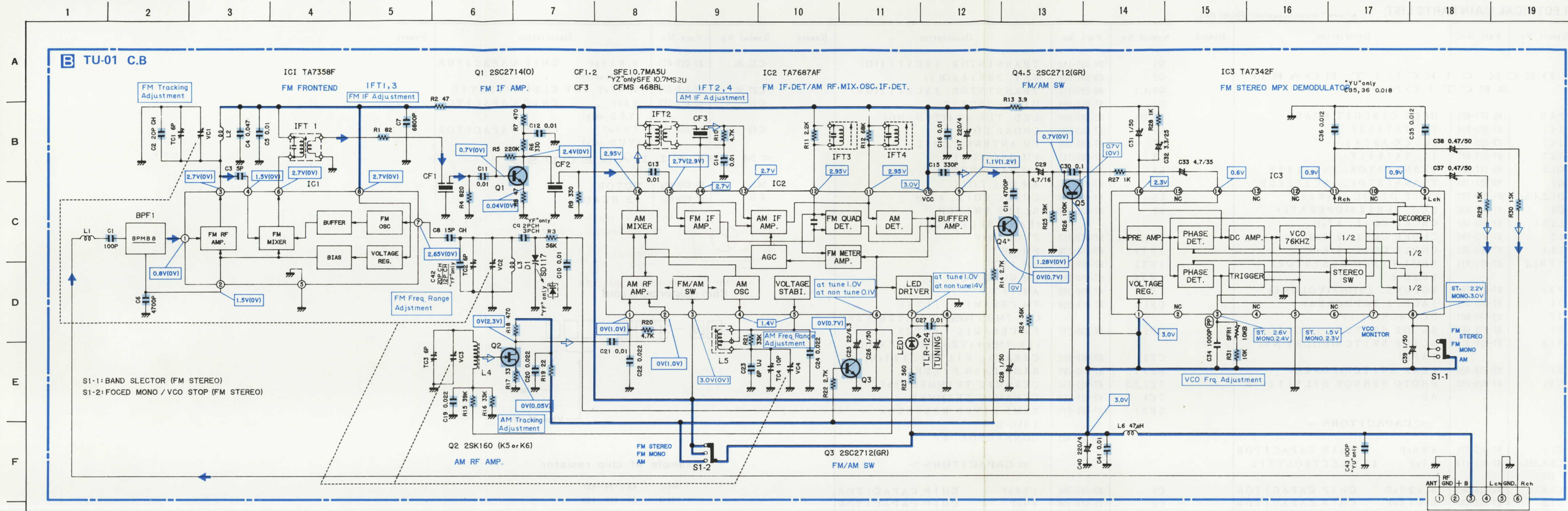
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Chip resistor parts cord



Example of chip resistor

|      |            |
|------|------------|
| 560Ω | 88-129-561 |
| 10kΩ | 88-129-103 |

SCHEMATIC DIAGRAM-1

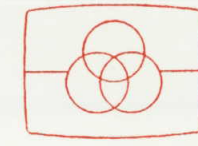


NOTES:

- 1) B (+) power supply
- 2) Signal path
- 3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But ( ) is with AM reception or recording. An asterisk (\*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
- 4) Resistors with no designation have a rated power of 1/4W and a tolerance of ±5%.
- 5) Capacitors with no designation have a dielectric strength of less than 50WV.
- 6) The only capacitor tolerance indicated are ±5% (J) and ±10% (K).
- 7) Ceramic capacitor symbols:
  - For temperature compensation (SL)
  - High dielectric constant system (YY)
  - High dielectric constant system (YW, YP, YZ)
  - Semiconductor ceramic
  - For temperature compensation (SH)

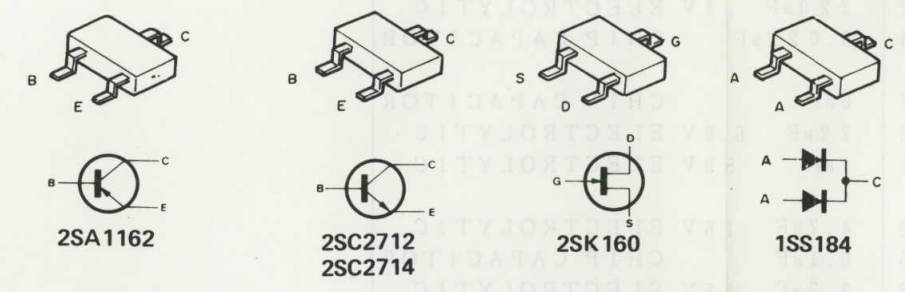
- 8) Explanation of symbols
  - Mylar capacitor
  - Aluminum solid capacitor
  - Tantalum capacitor
  - Polypropylene film capacitor
  - Chip parts
  - Chip capacitor
  - Chip tantalum capacitor
  - Chip resistor
  - Chip diode
  - Chip transistor

This schematic diagram is subject to change without notice in the interests of improved performance.

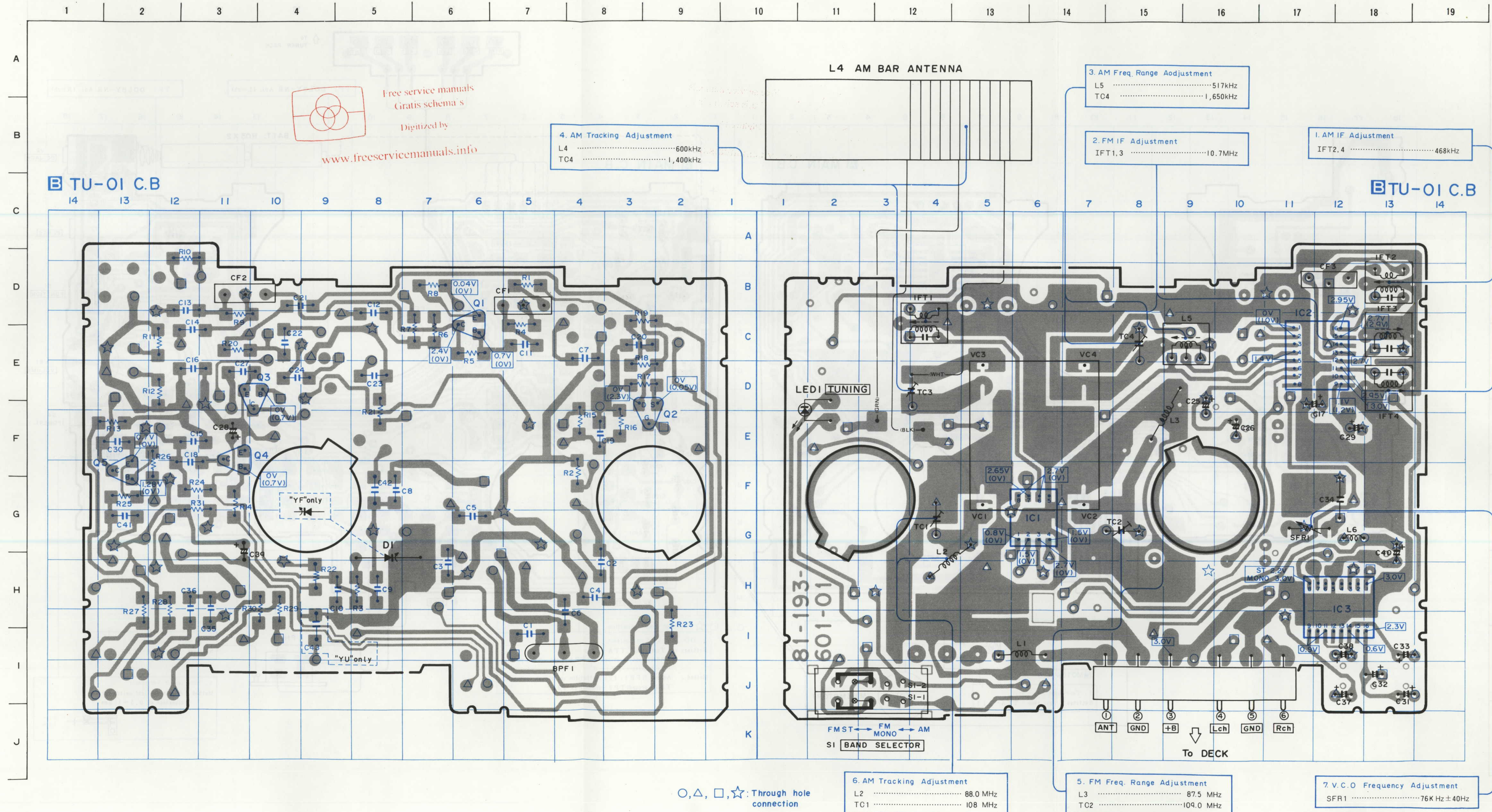


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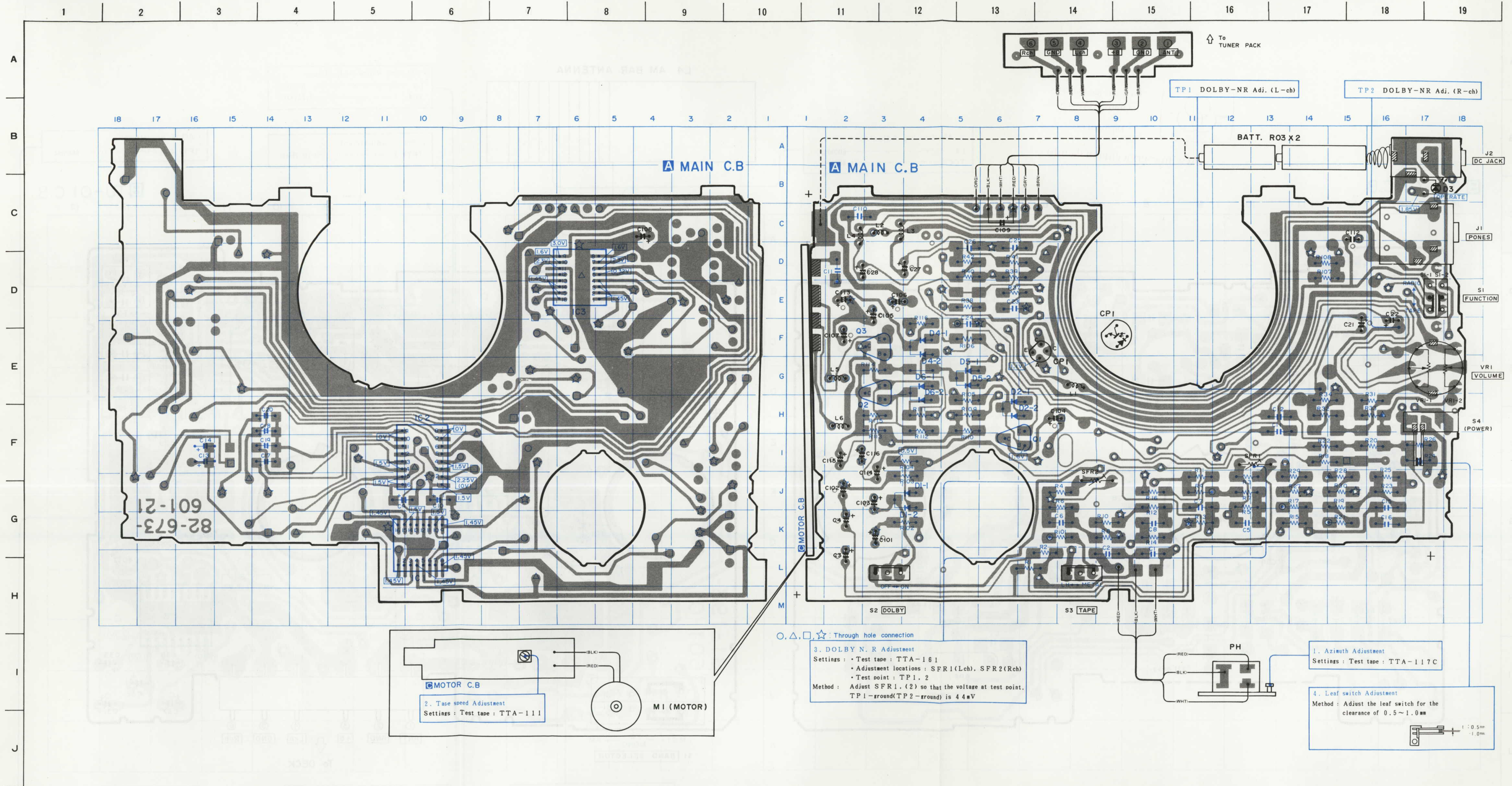
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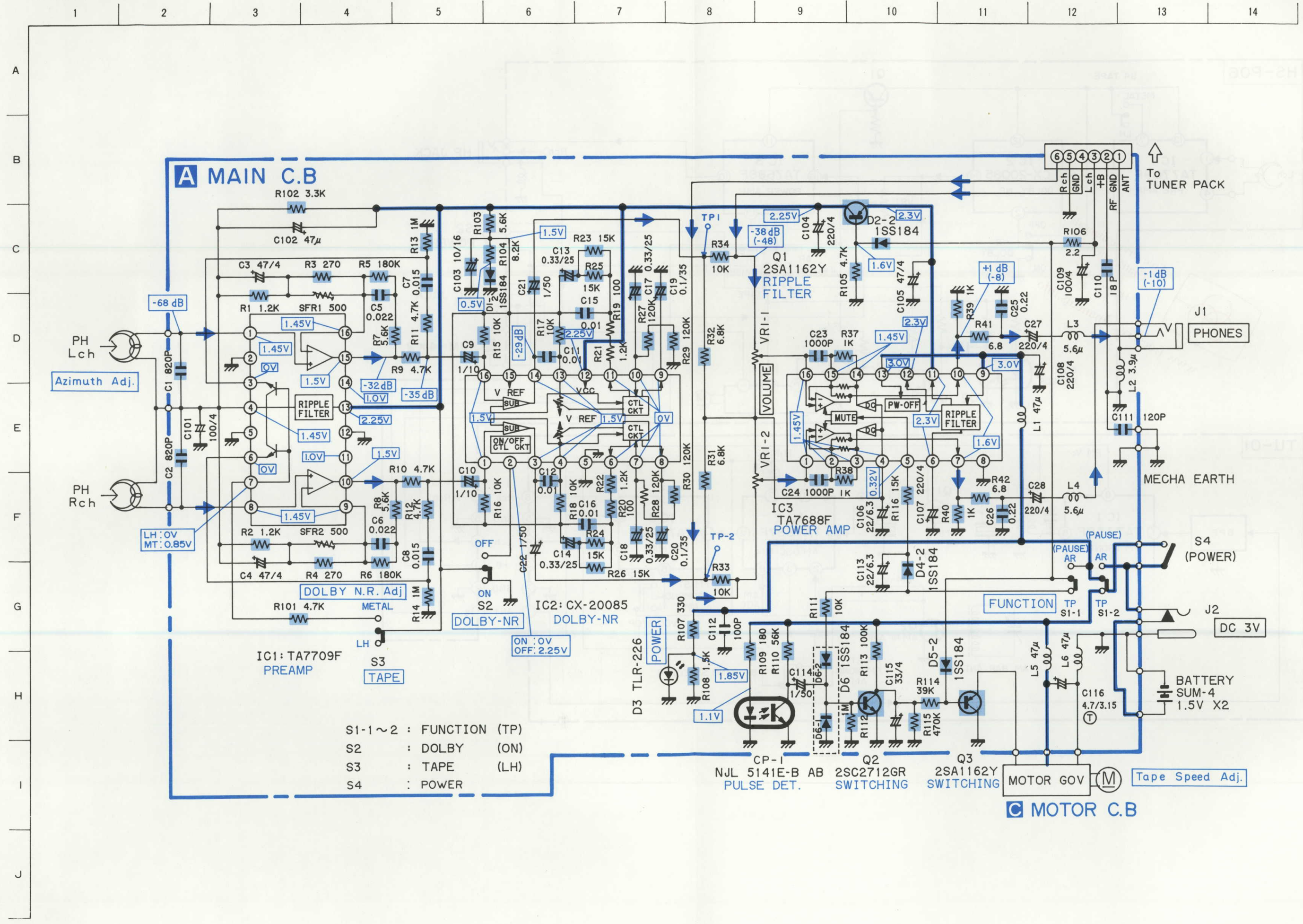
## WIRING-1



WIRING-2

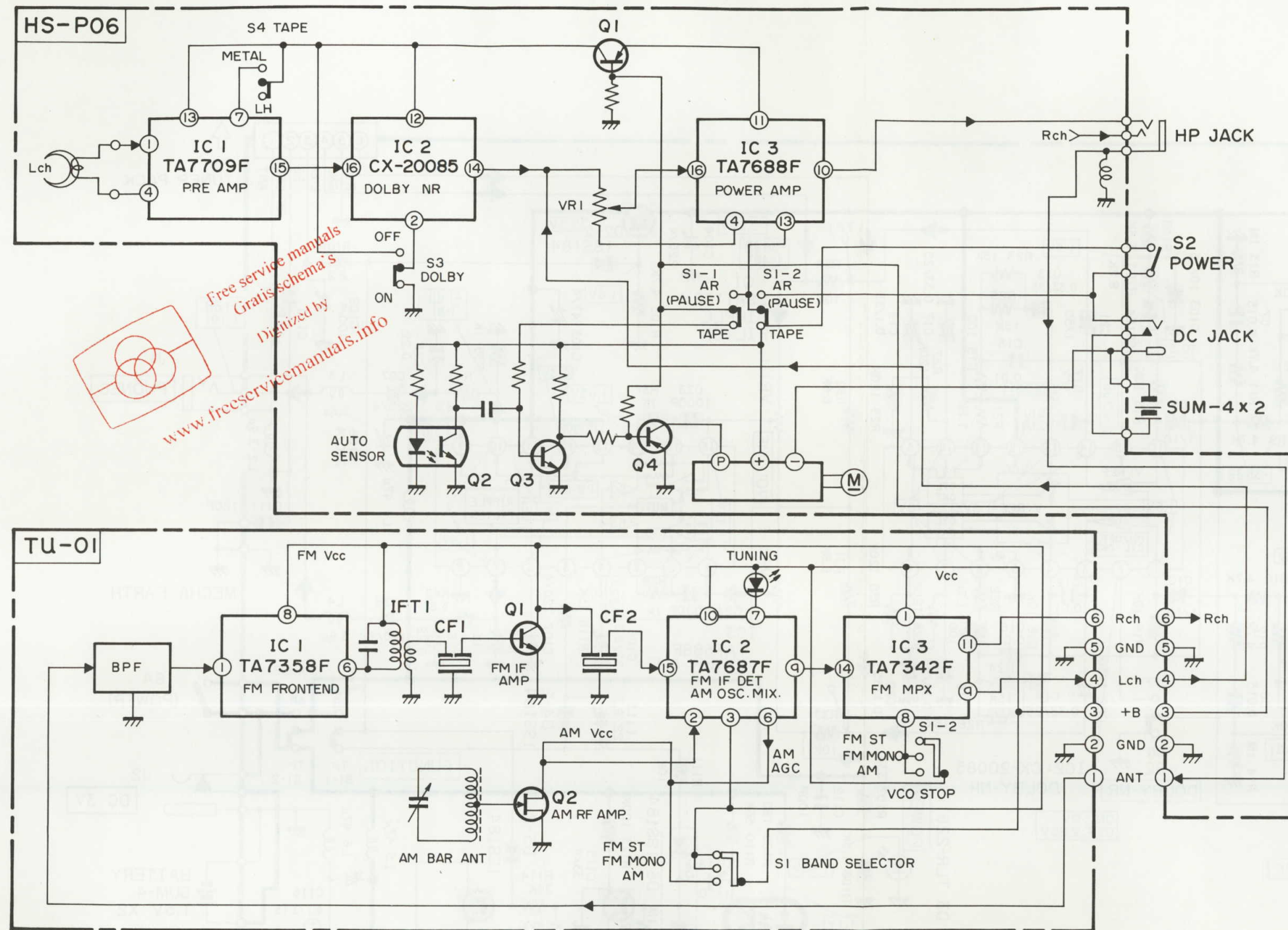


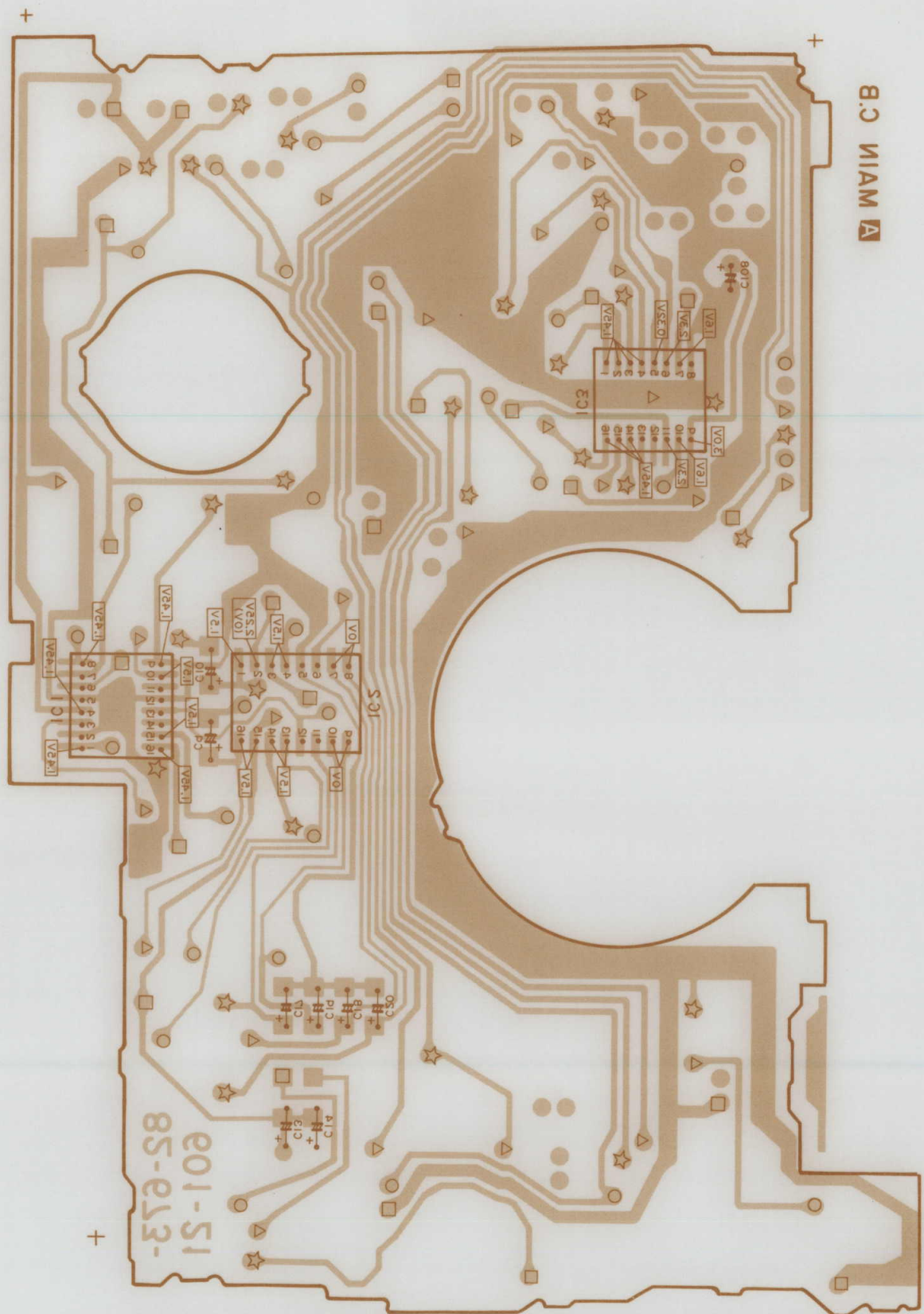
SCHEMATIC DIAGRAM-2



- S1-1~2 : FUNCTION (TP)  
S2 : DOLBY (ON)  
S3 : TAPE (LH)  
S4 : POWER

# BLOCK DIAGRAM

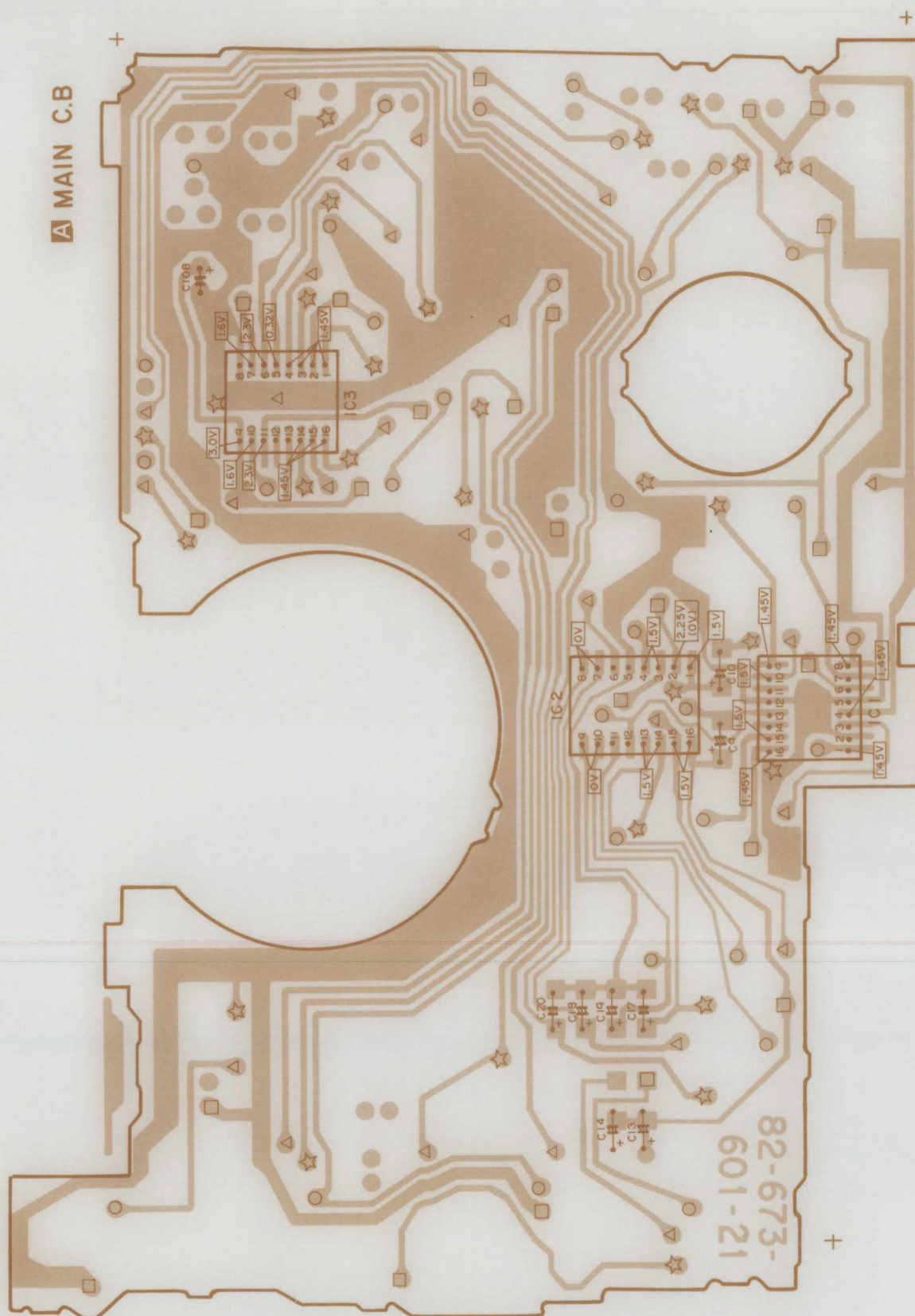




T O USE this pattern view, put the (+) mark upon the one of the wiring view.

21M Code No. 84-008  
A1A

A MAIN C.B



TO USE THIS BATTERY VIEW, BUT THE (+) END TOP, WEIR MISTAKEN AT THE BOTTOM.

# DISASSEMBLY INSTRUCTIONS

## 1 . Removing Cassette Lid, Control Panel & Rear Panel

- 1) Remove the 8 screws.
- 2) Remove the 2 knobs and the battery lid.  
(See Figure-1)

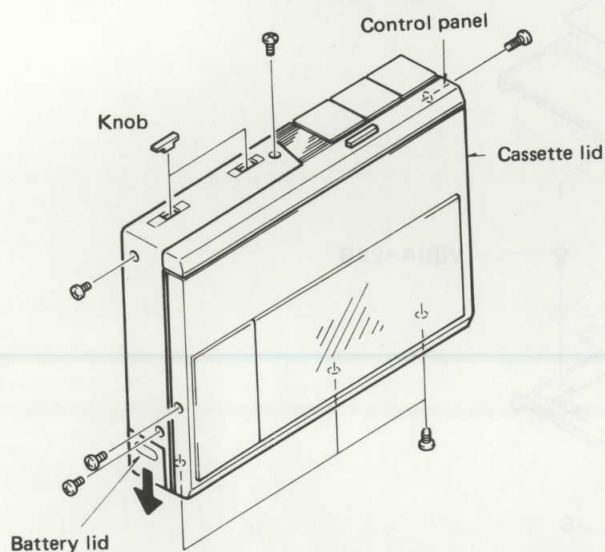


Fig. 1

- 2) Remove the 3 screws to raise the circuit board in the direction of the arrow. (See Figure-3)

**Note 1** Hold up the  $\oplus$  terminal in the direction of the arrow, and detach the fitting guide.

**Note 2** Detach the circuit board from the guide.

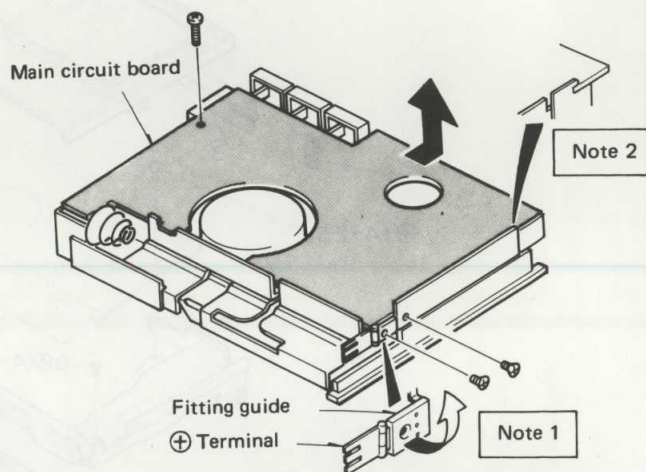


Fig. 3

## 2 . Removing Main Circuit Board

- 1) Remove the 2 screws to slide out the connector circuit board in the direction of the arrow.  
(See Figure-2)

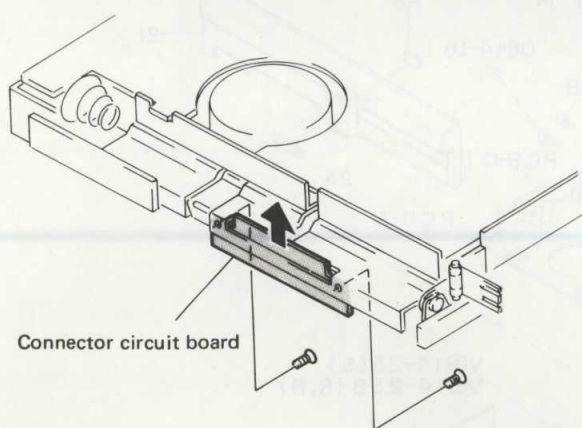


Fig. 2

\* Caution when Dismounting and Assembling the hinge of the cassette lid take fully care that comes off easily when dismounting and assembling. (See Figure-4)

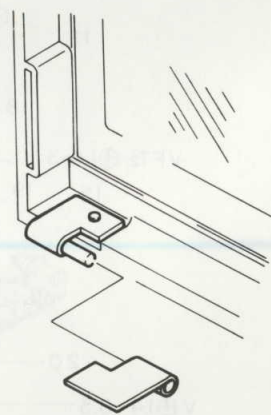
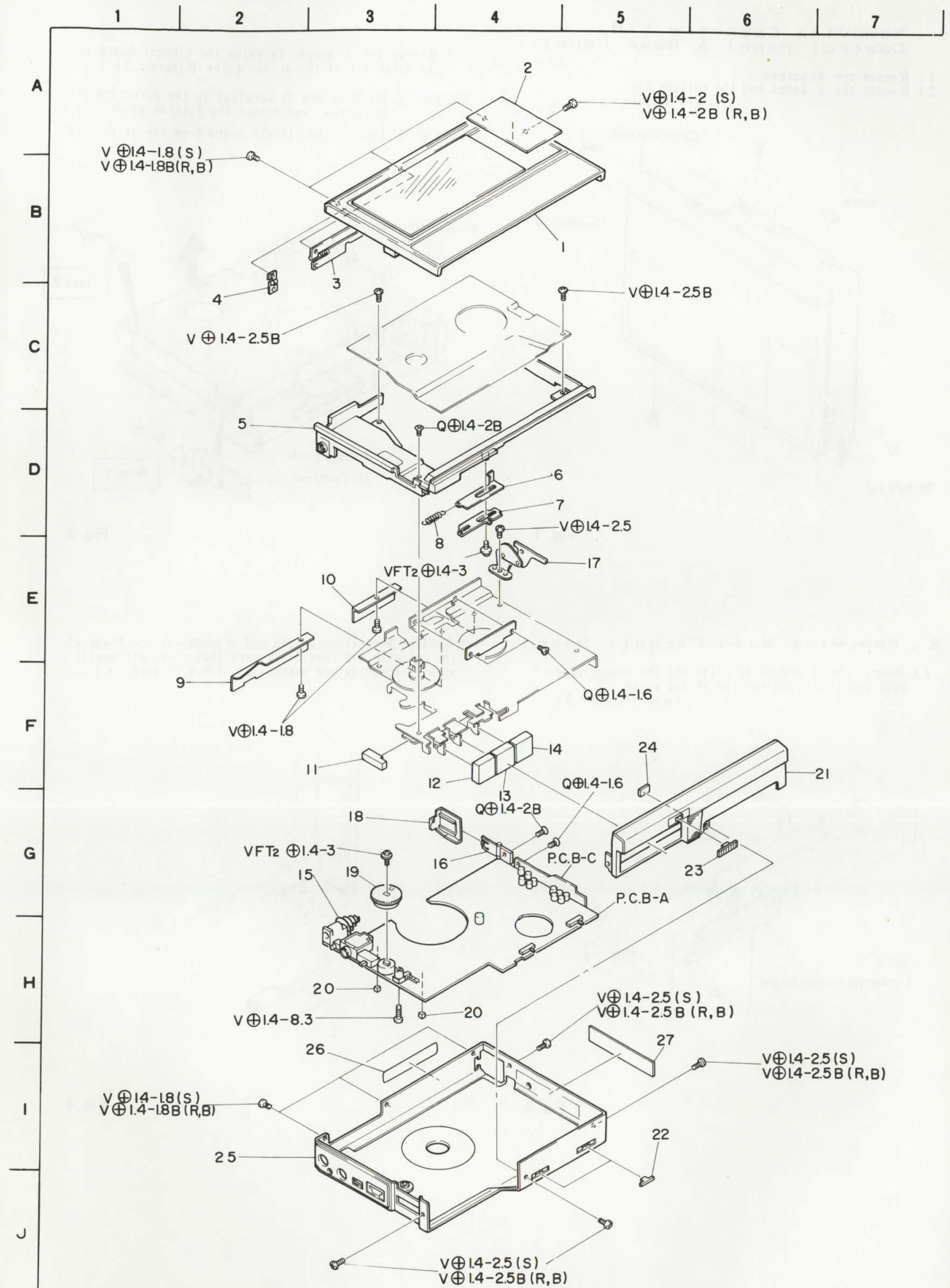


Fig. 4

## EXPLODED VIEW - I



## PARTS LIST

■ [S]=Silver [R]=Red [B]=Black  
 ■ \* mark in this part list shows exclusive part.  
 ■ "★★★" shows unavailable Repair Part.

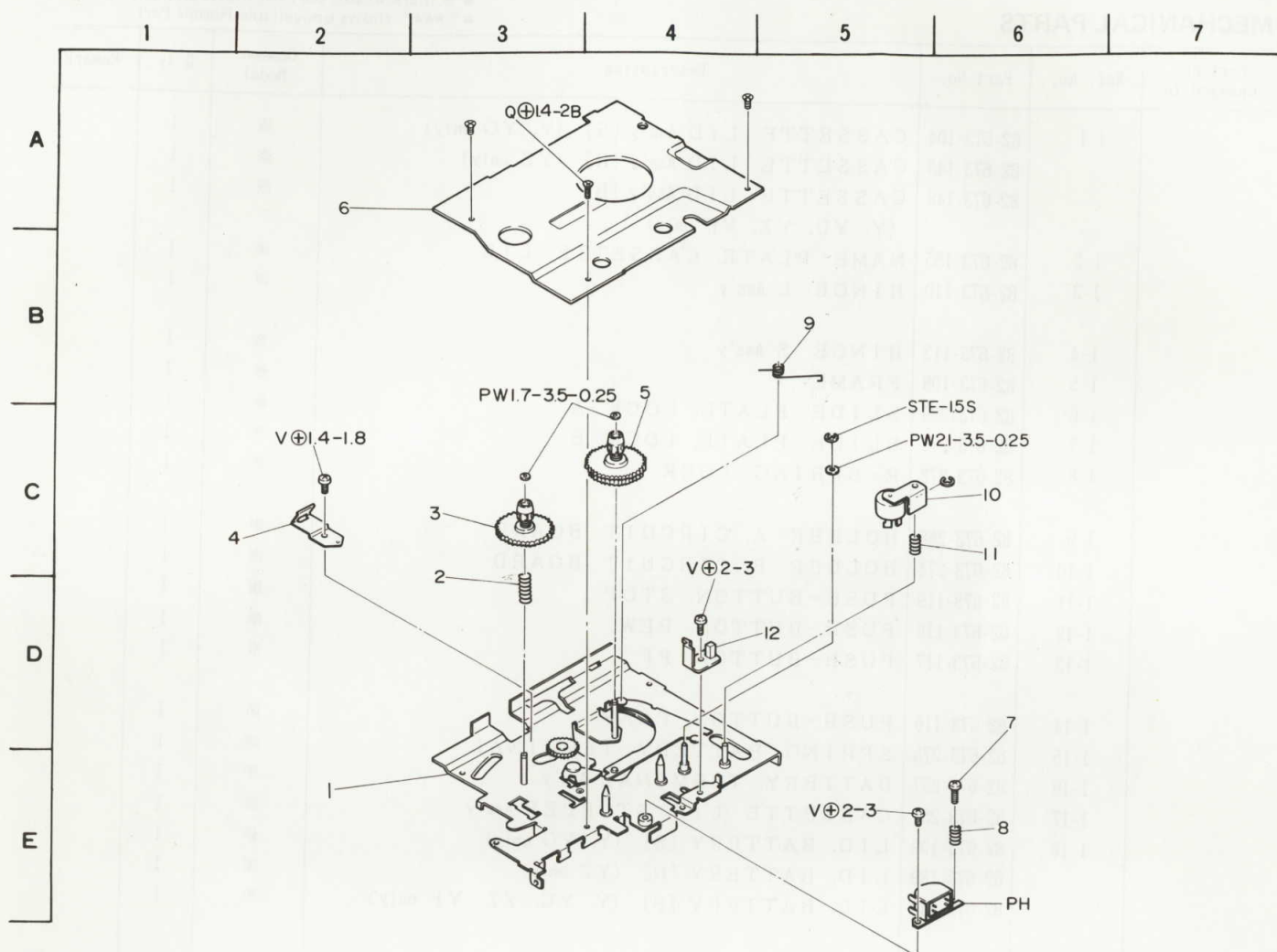
## MECHANICAL PARTS

| Part No.<br>Changed to | Ref. No. | Part No.   | Description                                    | Common<br>Model | Q'ty | Remark |
|------------------------|----------|------------|------------------------------------------------|-----------------|------|--------|
|                        | 1-1      | 82-673-104 | CASSETTE LID Ass'y [S] (Y, YG only)            | ※               | 1    |        |
|                        |          | 82-673-143 | CASSETTE LID Ass'y [R] (YZ only)               | ※               | 1    |        |
|                        |          | 82-673-148 | CASSETTE LID Ass'y [B]<br>(Y, YU, YZ, YF only) | ※               | 1    |        |
|                        | 1-2      | 82-673-155 | NAME PLATE, CASSETTE LID                       | ※               | 1    |        |
|                        | 1-3      | 82-673-110 | HINGE L Ass'y                                  | ※               | 1    |        |
|                        | 1-4      | 82-673-113 | HINGE S Ass'y                                  | ※               | 1    |        |
|                        | 1-5      | 82-673-108 | FRAME                                          | ※               | 1    |        |
|                        | 1-6      | 82-673-269 | SLIDE PLATE, LOCK A                            | ※               | 1    |        |
|                        | 1-7      | 82-673-271 | SLIDE PLATE, LOCK B                            | ※               | 1    |        |
|                        | 1-8      | 82-673-272 | E-SPRING, LOCK                                 | ※               | 1    |        |
|                        | 1-9      | 82-673-268 | HOLDER A, CIRCUIT BOARD                        | ※               | 1    |        |
|                        | 1-10     | 82-673-274 | HOLDER B, CIRCUIT BOARD                        | ※               | 1    |        |
|                        | 1-11     | 82-673-119 | PUSH-BUTTON, STOP                              | ※               | 1    |        |
|                        | 1-12     | 82-673-118 | PUSH-BUTTON, REW                               | ※               | 1    |        |
|                        | 1-13     | 82-673-117 | PUSH-BUTTON, FF                                | ※               | 1    |        |
|                        | 1-14     | 82-673-116 | PUSH-BUTTON, PLAY                              | ※               | 1    |        |
|                        | 1-15     | 82-673-275 | SPRING, BATTERY TERMINAL                       | ※               | 1    |        |
|                        | 1-16     | 82-673-257 | BATTERY TERMINAL Ass'y                         | ※               | 1    |        |
|                        | 1-17     | 82-673-251 | CASSETTE LID STOPPER Ass'y                     | ※               | 1    |        |
|                        | 1-18     | 82-673-109 | LID, BATTERY [S] (Y, YG only)                  | ※               | 1    |        |
|                        |          | 82-673-139 | LID, BATTERY [R] (YZ only)                     | ※               | 1    |        |
|                        |          | 82-673-140 | LID, BATTERY [B] (Y, YU, YZ YF only)           | ※               | 1    |        |
|                        | 1-19     | 82-673-122 | KNOB, VOLUME                                   | ※               | 1    |        |
|                        | 1-20     | 82-670-218 | CUSHION, CIRCUIT BOARD                         | HS-P05          | 2    | ★★★    |
|                        | 1-21     | 82-673-107 | PANEL, CONTROL                                 | ※               | 1    |        |
|                        | 1-22     | 82-673-121 | KNOB, SLIDE                                    | ※               | 2    |        |
|                        | 1-23     | 82-673-120 | SLIDE KNOB, OPEN                               | ※               | 1    |        |
|                        | 1-24     | 82-673-276 | M CUSHION 5-7                                  | ※               | 1    | ★★★    |
|                        | 1-25     | 82-673-101 | REAR PANEL Ass'y [S] (Y, YG only)              | ※               | 1    |        |
|                        |          | 82-673-141 | REAR PANEL Ass'y [R] (YZ only)                 |                 |      |        |
|                        |          | 82-673-146 | REAR PANEL Ass'y [B] (Y, YU, YZ, YF only)      | ※               | 1    |        |
|                        | 1-26     | 82-673-130 | LABEL, DOLBY [S, R] (Y, YG, YZ only)           | ※               | 1    | ★★★    |
|                        |          | 82-673-131 | LABEL, DOLBY [B] (Y, YU, YZ, YF only)          | ※               | 1    | ★★★    |
|                        | 1-27     | 82-673-128 | LABEL, Spec. [S, R] (Y, YG, YZ only)           | ※               | 1    | ★★★    |
|                        |          | 82-673-129 | LABEL, Spec. [B] (Y, YU, YZ only)              | ※               | 1    | ★★★    |

| Ref. No.      | Description             |
|---------------|-------------------------|
| 87-263-502-31 | V + 1.4 - 1.8           |
| 87-261-502-31 | V + 1.4 - 1.8 B         |
| 87-263-503-31 | V + 1.4 - 2             |
| 87-261-503-31 | V + 1.4 - 2 B           |
| 87-263-505-31 | V + 1.4 - 2.5           |
| 87-261-505-31 | V + 1.4 - 2.5 B         |
| 87-067-091-01 | V + 1.4 - 8.3           |
| 87-261-032-21 | V + 2 - 3               |
| 87-067-117-01 | VT <sub>1</sub> + 2 - 8 |
| 87-067-119-01 | VT <sub>1</sub> + 2 - 8 |
| 87-352-547-31 | VT <sub>2</sub> + 2 - 3 |

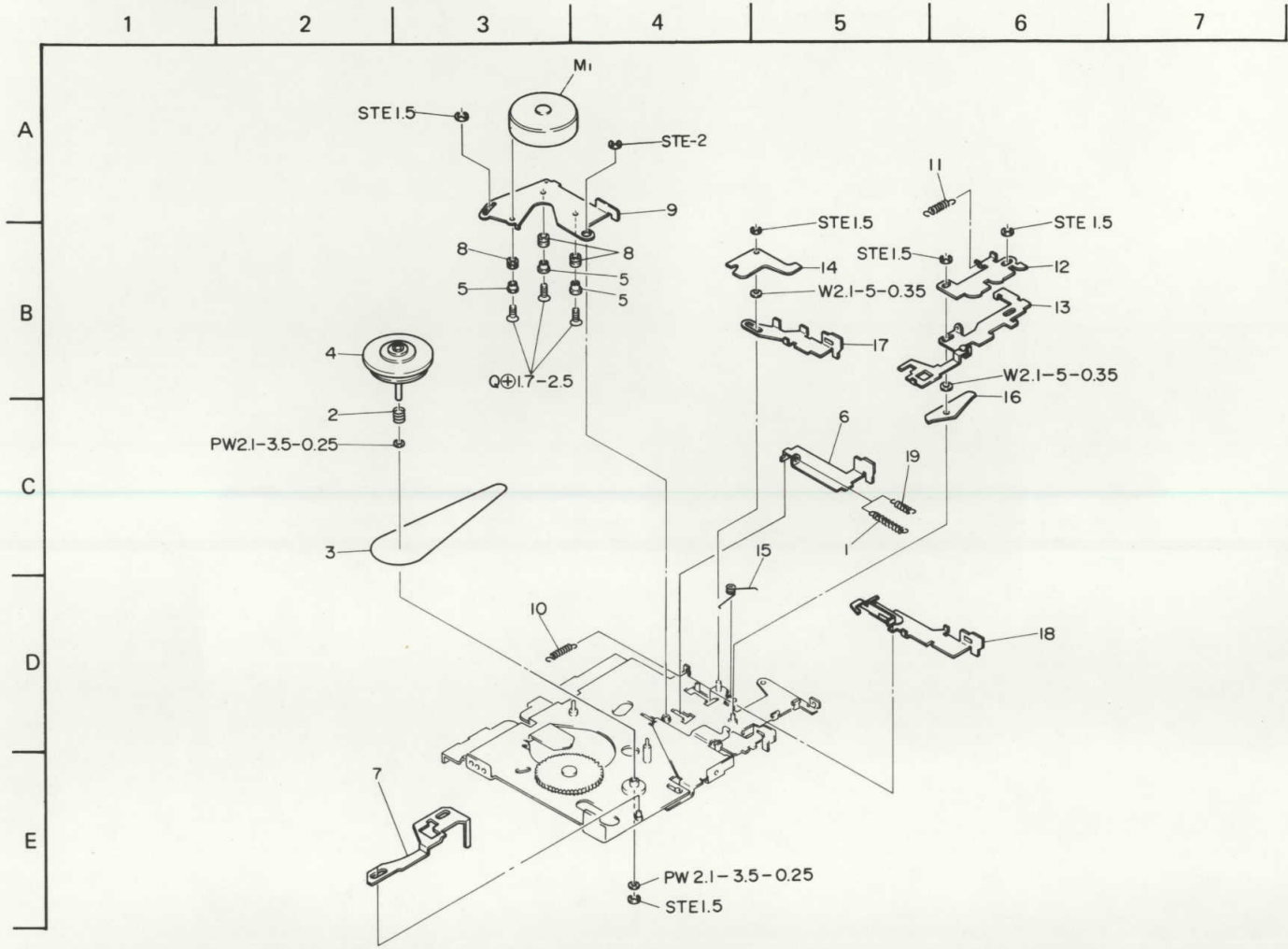
| Ref. No.      | Description                |
|---------------|----------------------------|
| 87-067-103-01 | VFT <sub>2</sub> + 1.4 - 3 |
| 87-233-501-31 | Q + 1.4 - 1.6              |
| 87-232-503-31 | Q + 1.4 - 2 B              |
| 87-233-525-31 | Q + 1.7 - 2.5              |
| 87-441-003-01 | STE - 1.5                  |
| 81-510-300-01 | STE - 1.5 S                |
| 87-441-005-01 | STE - 2                    |
| 87-081-489-01 | PW 1.7 - 3.5 - 0.25        |
| 81-510-275-11 | PW 2.1 - 3.5 - 0.25        |
| 81-510-278-01 | PW 2.1 - 5 - 0.35          |

## EXPLODED VIEW-2



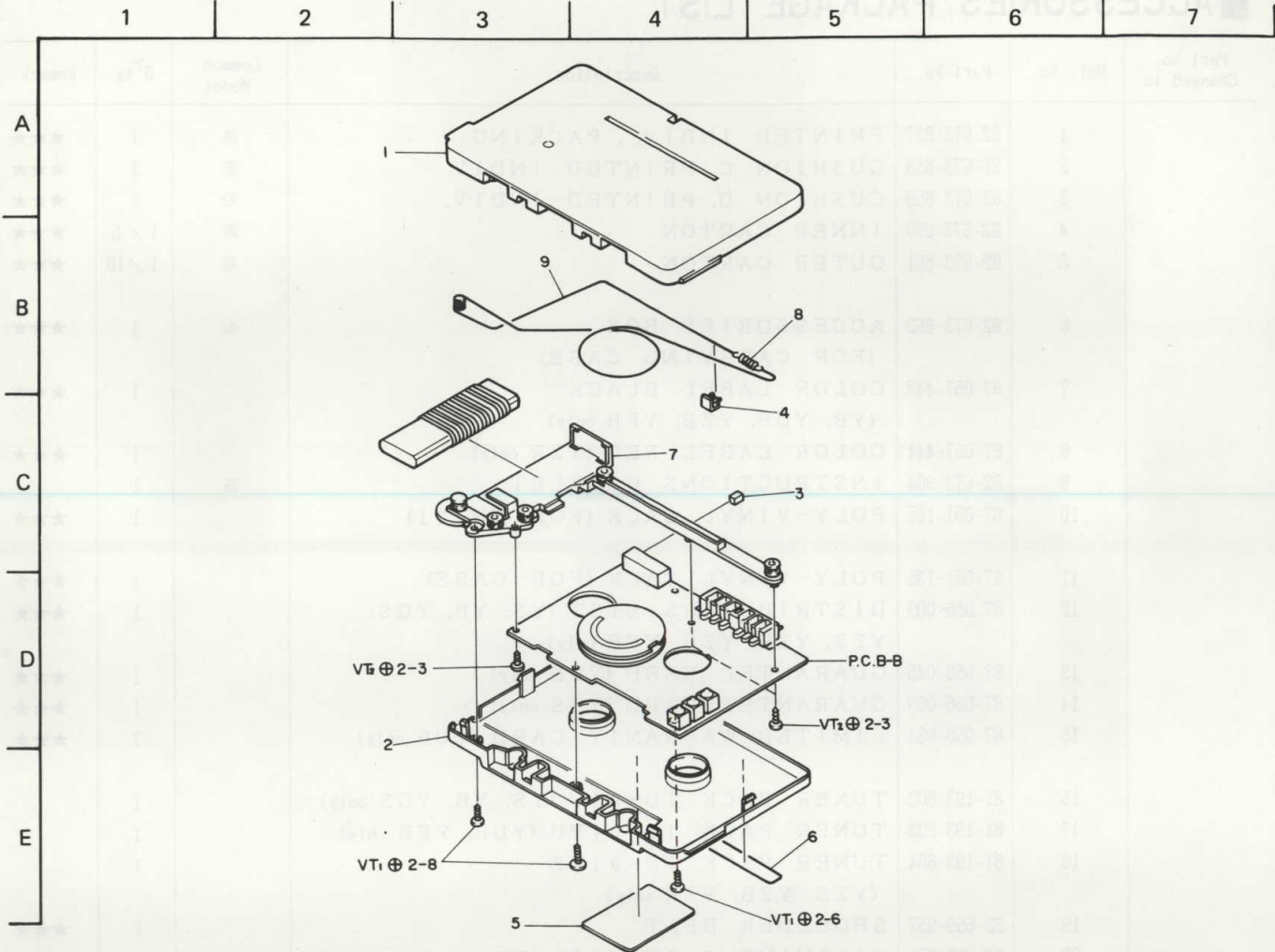
| Part No.<br>Changed to | Ref. No. | Part No.   | Description                 | Common<br>Model | Q'ty | Remark |
|------------------------|----------|------------|-----------------------------|-----------------|------|--------|
|                        | 2-1      | 81-530-202 | CHASSIS Ass'y               |                 | 1    | ★★★    |
|                        | 2-2      | 81-510-268 | C-SPRING, BACK TENSION      |                 | 1    |        |
|                        | 2-3      | 81-510-239 | SUPPLY REEL PLATFORM Ass'y  |                 | 1    |        |
|                        | 2-4      | 81-510-230 | P-SPRING, CASSETTE HOLDER   |                 | 1    |        |
|                        | 2-5      | 81-510-231 | TAKE-UP REEL PLATFORM Ass'y |                 | 1    |        |
|                        | 2-6      | 82-673-124 | PLATE, CASSETTE             | ※               | 1    |        |
|                        | 2-7      | 87-067-116 | AZIMUTH SCREW, U+2-7        |                 | 1    |        |
|                        | 2-8      | 81-510-265 | C-SPRING, HEAD              |                 | 1    |        |
|                        | 2-9      | 81-510-263 | T-SPRING, PLAY LEVER        |                 | 1    |        |
|                        | 2-10     | 81-510-250 | PINCH LEVER Ass'y           |                 | 1    |        |
|                        | 2-11     | 81-510-321 | T-SPRING, PINCH LEVER       |                 | 1    |        |
|                        | 2-12     | 81-510-257 | GUIDE, TAPE                 |                 | 1    |        |

EXPLODED VIEW-3



| Part No.<br>Changed to | Ref. No. | Part No.   | Description            | Common<br>Model | Q' ty | Remark |
|------------------------|----------|------------|------------------------|-----------------|-------|--------|
|                        | 3-1      | 81-510-259 | E-SPRING, PLAY         |                 | 1     |        |
|                        | 3-2      | 81-510-280 | C-SPRING, FW           |                 | 1     |        |
|                        | 3-3      | 81-510-252 | BELT, MAIN             |                 | 1     |        |
|                        | 3-4      | 81-530-218 | FLYWHEEL C Ass'y       |                 | 1     |        |
|                        | 3-5      | 81-510-296 | COLLAR E, MOTOR        |                 | 3     | ★★★    |
|                        | 3-6      | 81-510-211 | PLATE, PLAY            |                 | 1     |        |
|                        | 3-7      | 81-530-215 | PLATE, LOCK EJECT      |                 | 1     |        |
|                        | 3-8      | 81-510-283 | G-CUSHION, MOTOR       |                 | 3     | ★★★    |
|                        | 3-9      | 81-510-286 | HOLDER, MOTOR          |                 | 1     |        |
|                        | 3-10     | 81-530-217 | E-SPRING, MOTOR HOLDER |                 | 1     |        |
|                        | 3-11     | 81-510-261 | E-SPRING, LOCK PLATE   |                 | 1     |        |
|                        | 3-12     | 81-510-267 | PLATE, LEAF SWITCH     |                 | 1     |        |
|                        | 3-13     | 81-530-211 | LOCK PLATE Ass'y       |                 | 1     |        |
|                        | 3-14     | 81-510-254 | REW LEVER              |                 | 1     |        |
|                        | 3-15     | 81-510-264 | T-SPRING, FR PLATE     |                 | 1     |        |
|                        | 3-16     | 81-510-214 | REV LEVER              |                 | 1     |        |
|                        | 3-17     | 81-510-212 | REW PLATE              |                 | 1     |        |
|                        | 3-18     | 81-510-227 | FF PLATE Ass'y         |                 | 1     |        |
|                        | 3-19     | 81-530-216 | E-SPRING, ACTUATING A  |                 | 1     |        |

EXPLODED VIEW-4

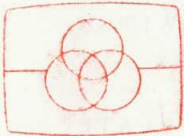


TUNER PACK (TU-01)

| Part No.<br>Changed to | Ref. No. | Part No.   | Description         | Common<br>Model | Q' ty | Remark |
|------------------------|----------|------------|---------------------|-----------------|-------|--------|
|                        | 1        | 81-193-008 | CABINET A-Y         | ※               | 1     |        |
|                        | 2        | 81-193-002 | CABINET B           | ※               | 1     |        |
|                        | 3        | 81-193-007 | KNOB, BAND SELECTOR | ※               | 1     |        |
|                        | 4        | 81-193-004 | TUNING POINTER      | ※               | 1     | ★★★    |
|                        | 5        | 81-193-006 | LABEL, Spec.        | ※               | 1     | ★★★    |
|                        | 6        | 81-193-010 | LABEL, CAUTION      | ※               | 1     | ★★★    |
|                        | 7        | 81-193-201 | RADIO CHASSIS Ass'y | ※               | 1     | ★★★    |
|                        | 8        | 81-193-204 | E-SPRING, DIAL      | ※               | 1     |        |
|                        | 9        | 87-096-095 | STRING, DIAL        |                 | 1     |        |

ACCESSORIES/PACKAGE LIST

| Part No.<br>Changed to | Ref. No. | Part No.   | Description                                                 | Common<br>Model | Q'ty | Remark |
|------------------------|----------|------------|-------------------------------------------------------------|-----------------|------|--------|
|                        | 1        | 82-673-857 | PRINTED INDIV., PACKING                                     | ※               | 1    | ★★★★   |
|                        | 2        | 82-673-858 | CUSHION C, PRINTED INDIV.                                   | ※               | 1    | ★★★★   |
|                        | 3        | 82-673-859 | CUSHION D, PRINTED INDIV.                                   | ※               | 1    | ★★★★   |
|                        | 4        | 82-673-860 | INNER CARTON                                                | ※               | 1/5  | ★★★★   |
|                        | 5        | 82-673-861 | OUTER CARTON                                                | ※               | 1/10 | ★★★★   |
|                        | 6        | 82-673-862 | ACCESSORIES BOX<br>(FOR CARRYING CASE)                      | ※               | 1    | ★★★★   |
|                        | 7        | 87-057-443 | COLOR LABEL, BLACK<br>(YB, YUB, YZB, YFB only)              |                 | 1    | ★★★★   |
|                        | 8        | 87-057-444 | COLOR LABEL, RED (YZR only)                                 |                 | 1    | ★★★★   |
|                        | 9        | 82-673-904 | INSTRUCTIONS BOOKLET                                        | ※               | 1    |        |
|                        | 10       | 87-051-135 | POLY-VINYL SACK (FOR TU-01)                                 |                 | 1    | ★★★★   |
|                        | 11       | 87-051-135 | POLY-VINYL SACK (FOR CASE)                                  |                 | 1    | ★★★★   |
|                        | 12       | 87-056-009 | DISTRIBUTORS LIST (YS, YB, YGS,<br>YZS, YZB, YZR, YFB only) |                 | 1    | ★★★★   |
|                        | 13       | 87-056-045 | GUARANTEE CARD (YUB only)                                   |                 | 1    | ★★★★   |
|                        | 14       | 87-056-059 | GUARANTEE CARD (YGS only)                                   |                 | 1    | ★★★★   |
|                        | 15       | 87-056-084 | LIMITED, WARRANTY CARD (YUB only)                           |                 | 1    | ★★★★   |
|                        | 16       | 81-193-802 | TUNER PACK TU-01Y (YS, YB, YGS only)                        |                 | 1    |        |
|                        | 17       | 81-193-803 | TUNER PACK TU-01YU (YUB, YFB only)                          |                 | 1    |        |
|                        | 18       | 81-193-804 | TUNER PACK TU-01YZ<br>(YZS, YZB, YZR only)                  |                 | 1    |        |
|                        | 19       | 82-659-957 | SHOULDER BELT                                               |                 | 1    | ★★★★   |
|                        | 20       | 82-673-951 | CARRYING CASE <SILVER><br>(YS, YGS, YZS only)               | ※               | 1    | ★★★★   |
|                        | 21       | 82-673-952 | CARRYING CASE <BLACK><br>(YB, YUB, YZB, YFB only)           | ※               | 1    | ★★★★   |
|                        | 22       | 82-673-953 | CARRYING CASE <RED> (YZR only)                              | ※               | 1    | ★★★★   |
|                        | 23       | 86-369-810 | HEAPPHONE HP-M15N <BLACK>                                   |                 | 1    | ★★★★   |
|                        |          | 86-369-015 | EAR-PAD <BLACK>                                             |                 | 1    |        |
|                        | 24       | 87-047-078 | BATTERY UM-4                                                |                 | 2    | ★★★★   |
|                        | 25       | 87-080-017 | BELT HANGER B Ass'y                                         |                 | 1    |        |



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