

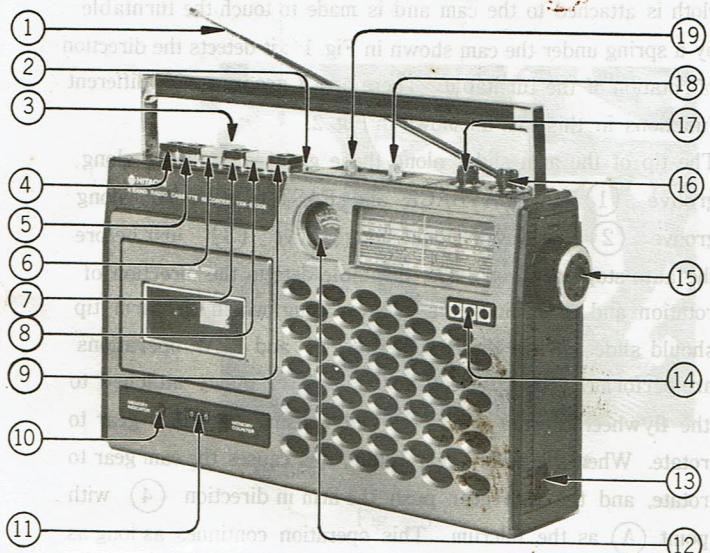


HITACHI

TRK-5030E/E(BS)

SERVICE MANUAL

No. 812



- | | |
|------------------------|--------------------------------|
| (1) TELESCOPIC ANTENNA | (11) MEMORY COUNTER |
| (2) TAPE SELECTOR | (12) LEVEL METER |
| (3) MEMORY BUTTON | (13) 2P SOCKET |
| (4) PAUSE BUTTON | (14) BUILT-IN MICROPHONE |
| (5) F.F BUTTON | (15) TUNING CONTROL KNOB |
| (6) REWIND BUTTON | (16) VOLUME CONTROL KNOB |
| (7) PLAY BUTTON | (17) TONE CONTROL KNOB |
| (8) RECORD BUTTON | (18) BAND SELECTOR |
| (9) STOP/EJECT BUTTON | (19) TAPE/RADIO/SLEEP SELECTOR |
| (10) MEMORY INDICATOR | |

SPECIFICATIONS

TAPE RECORDER

| | |
|-------------------------|--|
| Tape | Compact cassette |
| Tape Speed | 4.75cm/s |
| Track System | Monaural dual track |
| Recording System | AC bias, 27 ± 3 kHz |
| Erasing System | DC erase |
| Frequency Range | Normal : 80~10000 Hz CrO ₂ : 80~12000 Hz |
| S/N Ratio | AC : -35 dB DC : -40 dB |
| Cross Talk..... | -60 dB |
| Wow & Flutter | 0.4% RMS |
| Motor | DC motor (Mechanical Governor Control) |
| F.F · Rewind Time | 2 minutes |
| Distortion Rate | Less than 5% |
| Erase Rate..... | -60 dB |

RADIO

| | |
|-----------------------------|---|
| Circuit System..... | FM/AM superheterodyne |
| Tuning Range..... | FM : 88~108 MHz SW : 6~18 MHz MW : 530~1605 kHz LW : 150~350 kHz |
| Intermediate Frequency..... | FM : 10.7 MHz AM : 455 kHz |

| | |
|-------------------|---|
| Sensitivity | FM : 5 dB(max.), 15 dB(pra.) SW : 20 dB(max.), 25 dB(pra.) MW : 35 dB(max.), 48 dB(pra.) LW : 45 dB(max.), 54 dB(pra.) |
| Antenna | .FM, SW : Telescopic antenna MW, LW : Ferrite-core antenna |

GENERAL

| | |
|-------------------------|--|
| Semiconductors..... | 2 IC, 8 transistor, 12 diode, 1 varistor |
| Power Supply | DC 6V (IEC R20×4) AC 220V 50 Hz [E] AC 240V 50 Hz [E(BS)] |
| Power Consumption | 6W |
| Speaker..... | 8Ω, P.M., 10cm |
| Maximum Output | 2.8W |
| Jacks | Microphone jack Remote control jack DIN jack Monitor jack |
| Dimensions | 19.3cm (H) × 32.0cm (W) × 8.8cm (D) |
| Weight | 2.8 kg |

TAPE RECORDER WITH FM/AM RADIO

October 1975

NEW MECHANISM'S OPERATION

1. AUTOMATIC STOP

The TRK-5030 is provided with a full-auto-stop mechanism; when the end of the tape is reached in all modes, (FF, REW, REC and PLAY) operations are stopped automatically.

The operation of this mechanism is controlled by the turntable, cam, arm and flywheels shown in Figs. 1, 2 and 3. There is a sliding cloth between the turntable and cam on the rewind side. This cloth is attached to the cam and is made to touch the turntable by a spring under the cam shown in Fig. 1; it detects the direction of rotation of the turntable. There are 3 grooves with different functions in this cam as shown in Fig. 2.

The tip of the arm slides along these grooves. It slides along groove ① in PLAYBACK and FAST-FORWARD, along groove ② in REWIND and along groove ③ just before the auto-stop operation. The turntable detects the direction of rotation and determines the groove along which the arm tip should slide. When the PLAY, REC, FF and REW operations are performed, the flywheel rotates and the pulley attached to the flywheel capstan drives the belt, causing the pulley gear to rotate. When the pulley gear rotates, this causes the cam gear to rotate, and the cam gear pushes the arm in direction ④ with point A as the fulcrum. This operation continues as long as the tape is running. When the cam and its gear are in the position ⑤, the relationship between the arm and cam is as shown by the solid line; when the cam position is ⑥, the relationship is that shown by the dotted line.

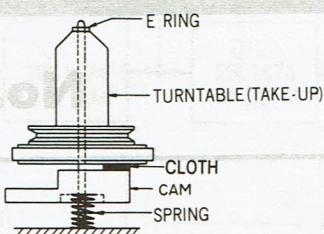


Fig. 1

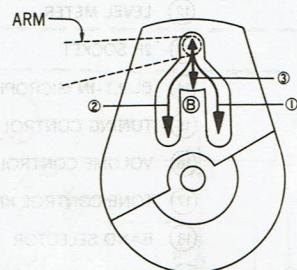


Fig. 2

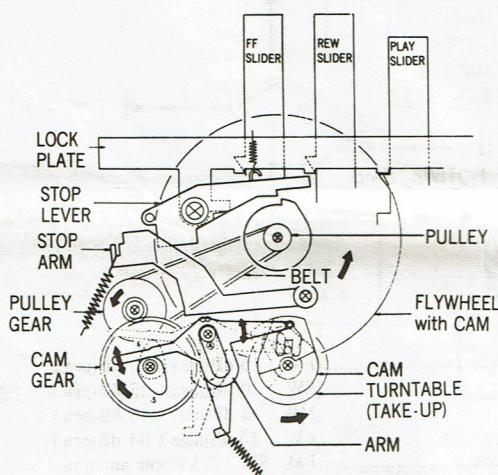


Fig. 3

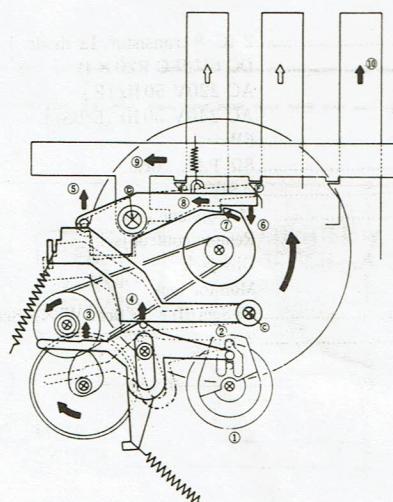


Fig. 4

Operations of parts when the tape comes to a stop are explained below : (See Fig. 4)

- 1) Since the rotation of the turntable stops and the force of this rotation is removed, the cam stops in the condition shown in Fig. 5. (The cam always stops in this position except when the cam section of the cam gear is in the position ⑥ shown in Fig. 3.)
- 2) Tip of the arm slides along groove ③ as shown in Fig. 2. The stroke of the arm when sliding in groove ③ is less than when it is sliding in grooves ① and ②. When the cam gear reaches condition ⑥ as shown in Fig. 3, the cam makes the arm slide in the direction of arrow ③ with point B as fulcrum shown in Fig. 2.
- 3) When the arm slides, its tip causes the stop-arm to slide in the direction of arrow ④ with point C as fulcrum.
- 4) The stop lever slides in the direction of arrow ⑤ with point D as fulcrum.
- 5) In the center of the flywheel there is a convex part which engages with the stop lever when the tape comes to a stop. When the convex part and stop lever engage with each other, the stop lever is slide in the direction of arrow ⑧ by the rotating force of the flywheel.

- 6) The stop lever presses against the lock-plate which locks when the PLAY, REC, FF or REW buttons are depressed. When the stop lever slides, these buttons are released to enter the stop mode.

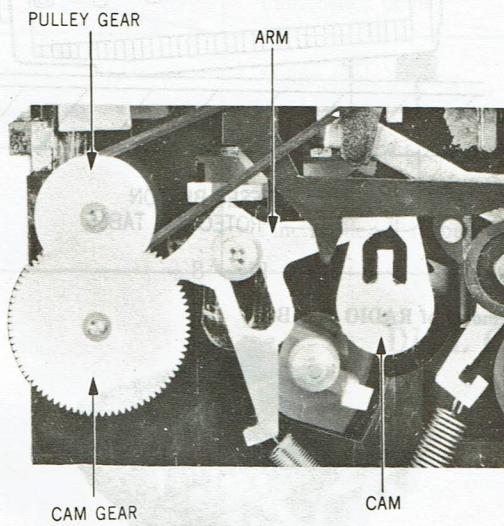


Fig. 5

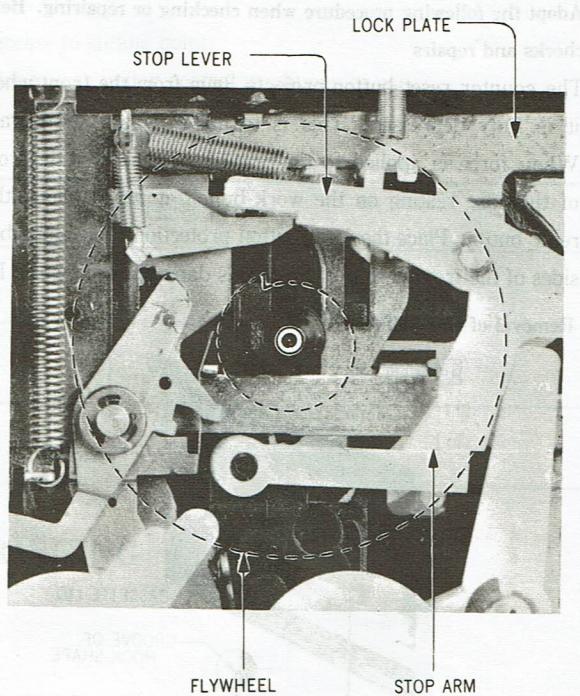


Fig. 6

2. MEMORY COUNTER

The memory counter mechanism is very convenient for listening to a desired part of the recorded tape over and over again or for locating the beginning of a recording so it can be played back. Fig. 7 shows the electric circuit of the memory counter mechanism.

S_1 is the switch in the counter and when the counter reading reaches "999" it is turned ON. S_2 and $S_{2'}$ are slide switches interlocked with the memory button; when the memory button is depressed, they are turned ON. S_3 is a switch inside the relay; when the relay is operated, this switch is turned OFF.

- 1) Set the memory counter to "000" before playback or recording.
- 2) Depress both the REW and memory buttons at the end of playback or recording.
- 3) S_2 and $S_{2'}$ are turned ON when the memory button is depressed, the indicator lamp lights and it enters the REW mode.
- 4) S_1 turns on, the relay operates and S_3 is turned OFF.
- 5) When S_3 is turned OFF, the power supply to the motor is switched off and the memory indicator is turned off. At this point, the operation of the memory counter is complete.

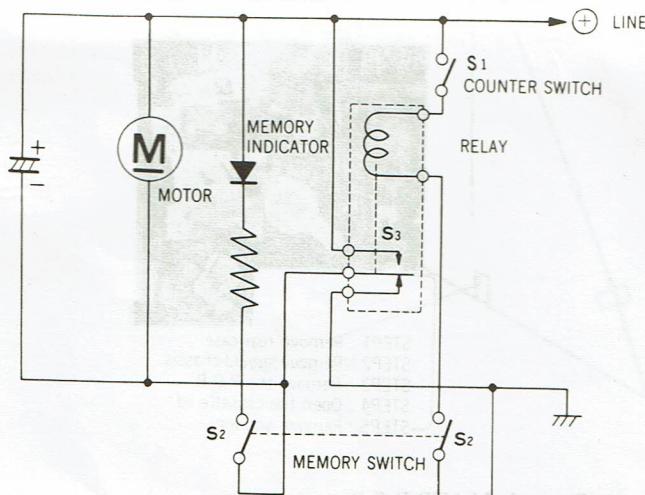


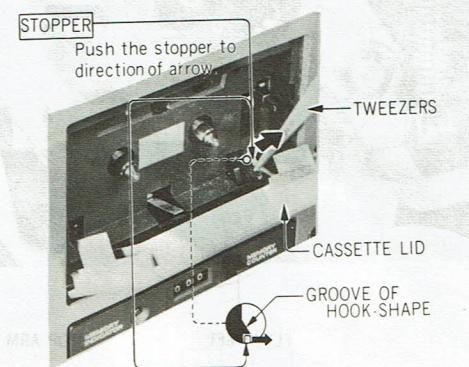
Fig. 7

DISASSEMBLY

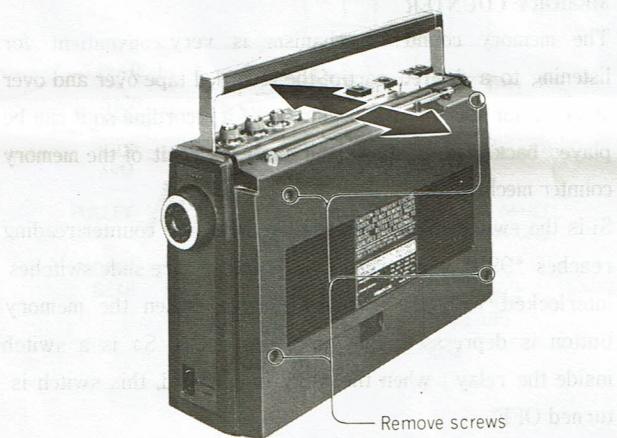
Adopt the following procedure when checking or repairing. Before checks and repairs

The counter reset button projects 3mm from the front when it is fully depressed. This is to make it easy to operate. When force is applied to the rear of the case with the front of the case resting on the work-bench, it may damage the reset button. Place the reset button protection table along both sides of the front case to prevent this damage as shown in Fig. 8.

1. Removal of CASSETTE LID



2. Removal of REAR CASE



3. Removal of RADIO CHASSIS, TAPE RECORDER P.C.B

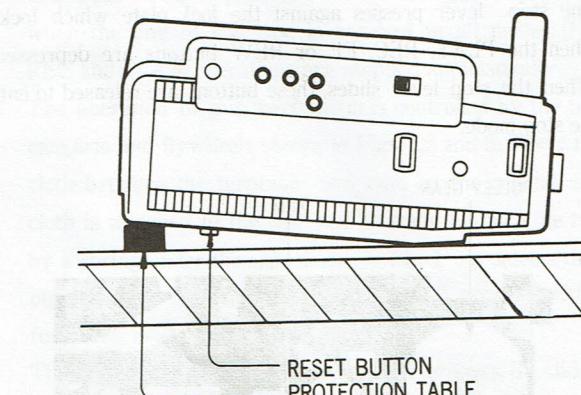
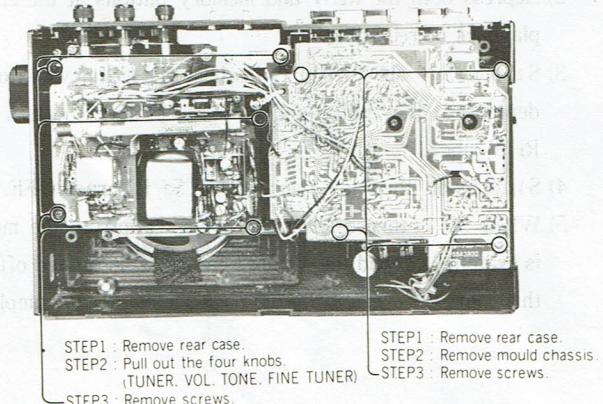
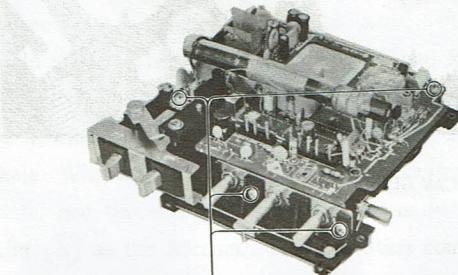
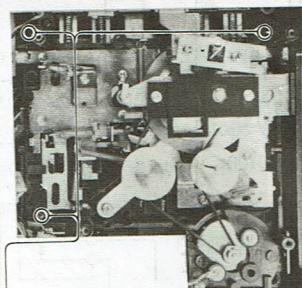


Fig. 8

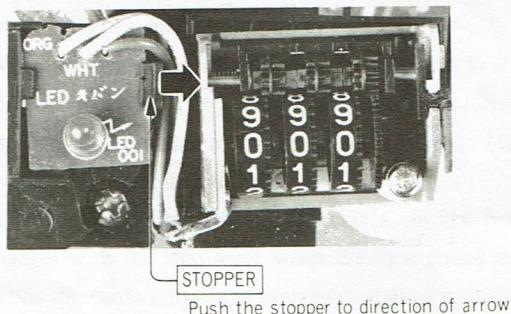
4. Removal of RADIO P.C.B



5. Removal of DECK CHASSIS



6. Removal of LAMP P.C.B



LUBRICATION

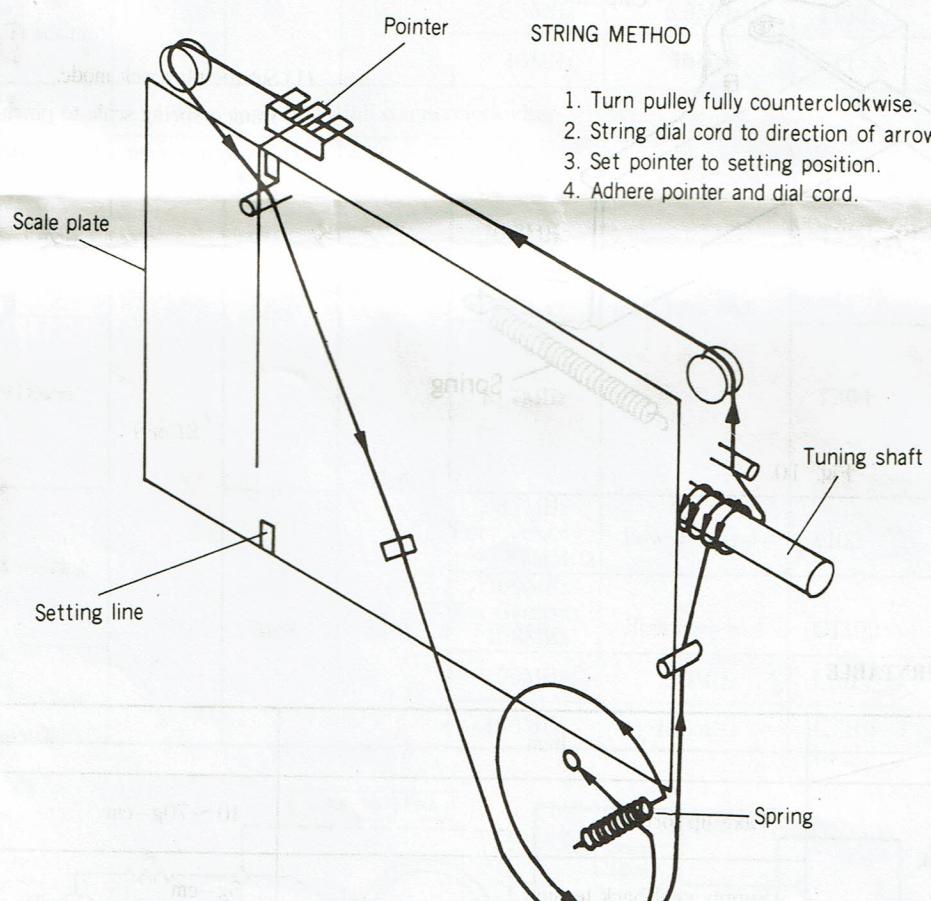
Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point.

Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use.

Avoid oiling then excessively, or rotation may become irregular because of oil splashes.

| | Lubrication point | Oil or grease |
|---------------|----------------------------|---------------|
| Cassette deck | Motor shaft bearing | Oil |
| | Capstan shaft bearing | Oil |
| | Pinch roller shaft bearing | Oil |

DIAL CORD STRINGING



ADJUSTMENT

1. HEAD AZIMUTH



Fig. 9

2. PRESSURE OF PINCH ROLLER

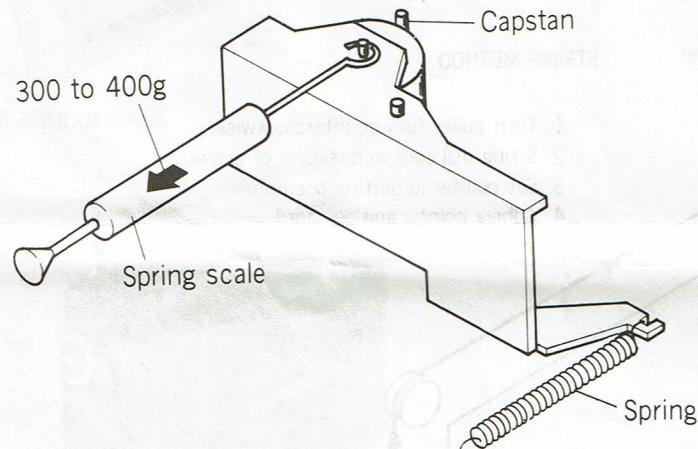


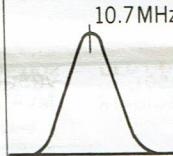
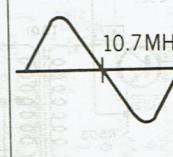
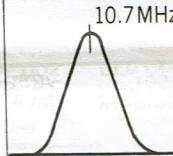
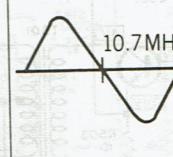
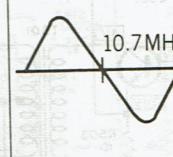
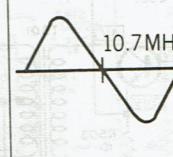
Fig. 10

- (1) Connect a voltmeter to speaker terminal.
- (2) Load instrument with standard tape for head azimuth adjustment.
- (3) Push the playback button, play the standard tape for head azimuth adjustment.
- (4) Adjust the head azimuth adjustment screw for maximum output shown in Fig. 9.

3. TORQUE OF TURNTABLE

| | Item | Torque |
|-----------------|--------------------------|-----------|
| In playback | Take-up torque | 40~70g-cm |
| | Supply reel back tension | 5g-cm |
| In rewind | Rewind torque | 55~85g-cm |
| In fast forward | Fast forward torque | 55~85g-cm |

4. TUNER

| Step | Band selector | Circuit | Connection | Control knobs | | Signal | Pointer | Adjustment parts(See Fig. 13) | Indication |
|------|---------------|----------|------------|---------------|------|---------------------------------------|----------------|---|---|
| | | | | VOLUME | TONE | | | | |
| (1) | Except FM | AM-IF | Fig. 11 | Max. | High | 465kHz | High freq. end | T205, 202, 201 | Maximum output |
| | | | | | | 515kHz | Low freq. end | T155 | Maximum output |
| | | | | | | 1650kHz | High freq. end | CT155 | |
| | | | | | | 600kHz | 600kHz | T152 | |
| | | | | | | 1400kHz | 1400kHz | CT152 | |
| | | | | | | 145kHz | Low freq. end | T154 | Maximum output |
| (2) | MW | Covering | Fig. 11 | Max. | High | 360kHz | High freq. end | CT154 | |
| | | | | | | 160kHz | 160kHz | T151 | |
| | | | | | | 330kHz | 330kHz | CT151 | |
| | | | | | | 5.8MHz | Low freq. end | T156 | |
| | | | Fig. 12 | Max. | High | 18.5MHz | High freq. end | CT156 | Maximum output |
| | | | | | | 6.5MHz | 6.5MHz | T153 | |
| (3) | LW | Tracking | Fig. 12 | Max. | High | 16MHz | 16MHz | CT153 | |
| | | | | | | Turn core(T204)full counterclockwise. | | | |
| | | | | | | 10.7MHz | High freq. end | T203, 101 |  |
| | | | | | | 10.7MHz | | T204 | |
| | | | Fig. 12 | Min. | High | 87MHz For Germany : 87.5MHz | Low freq. end | L103 |  |
| | | | | | | 109MHz For Germany : 108MHz | High freq. end | CT102 | |
| (4) | SW | Covering | Fig. 12 | Max. | High | 90MHz | 90MHz | L101 | |
| | | | | | | 106MHz | 106MHz | CT101 | |
| (5) | | FM-IF | | Min. | High | 10.7MHz | High freq. end |  |  |
| | | | | | | 10.7MHz | | | |
| (6) | FM | Discri. | Fig. 12 | Max. | High | 87MHz For Germany : 87.5MHz | Low freq. end | L103 |  |
| | | | | | | 109MHz For Germany : 108MHz | High freq. end | CT102 | |
| (7) | | Tracking | | Max. | High | 90MHz | 90MHz | L101 |  |
| | | | | | | 106MHz | 106MHz | CT101 | |

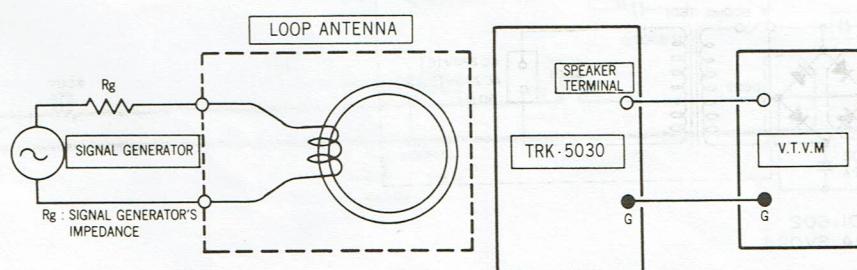


Fig. 11

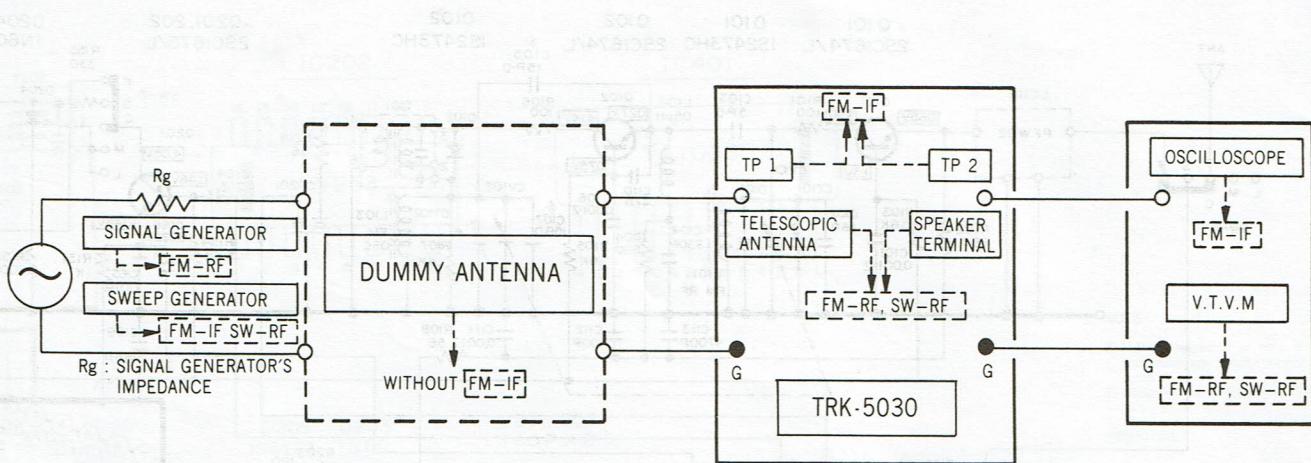


Fig. 12

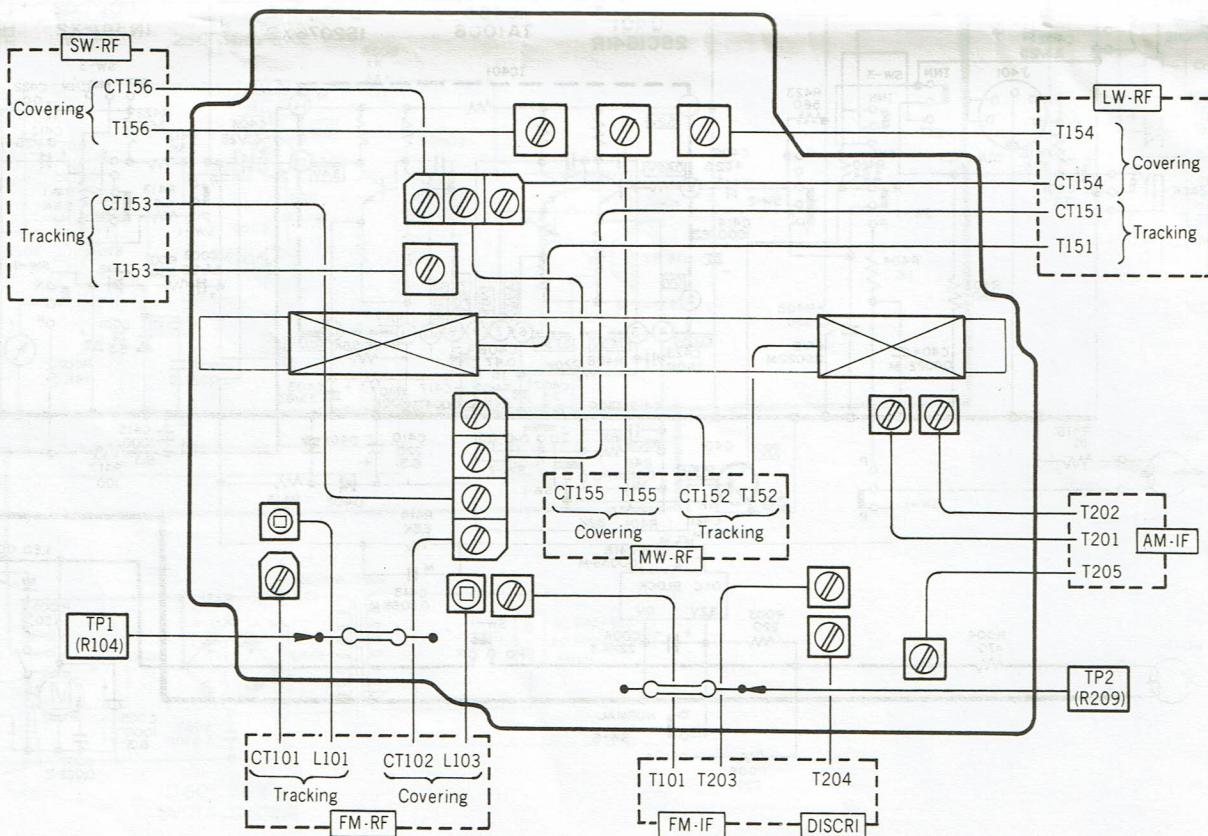
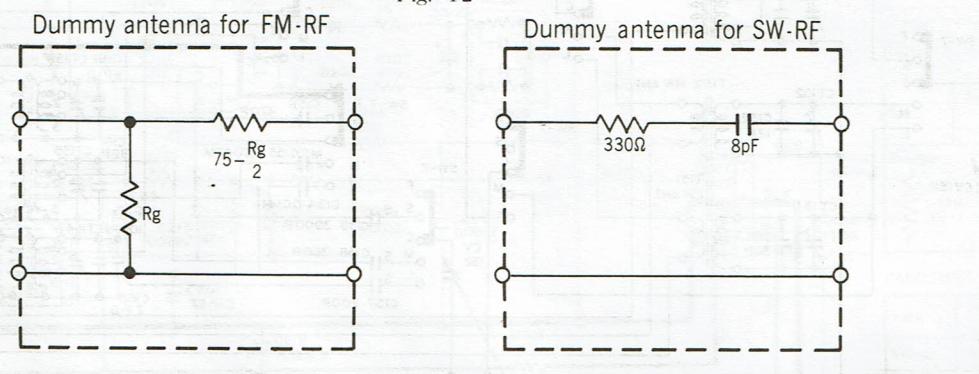
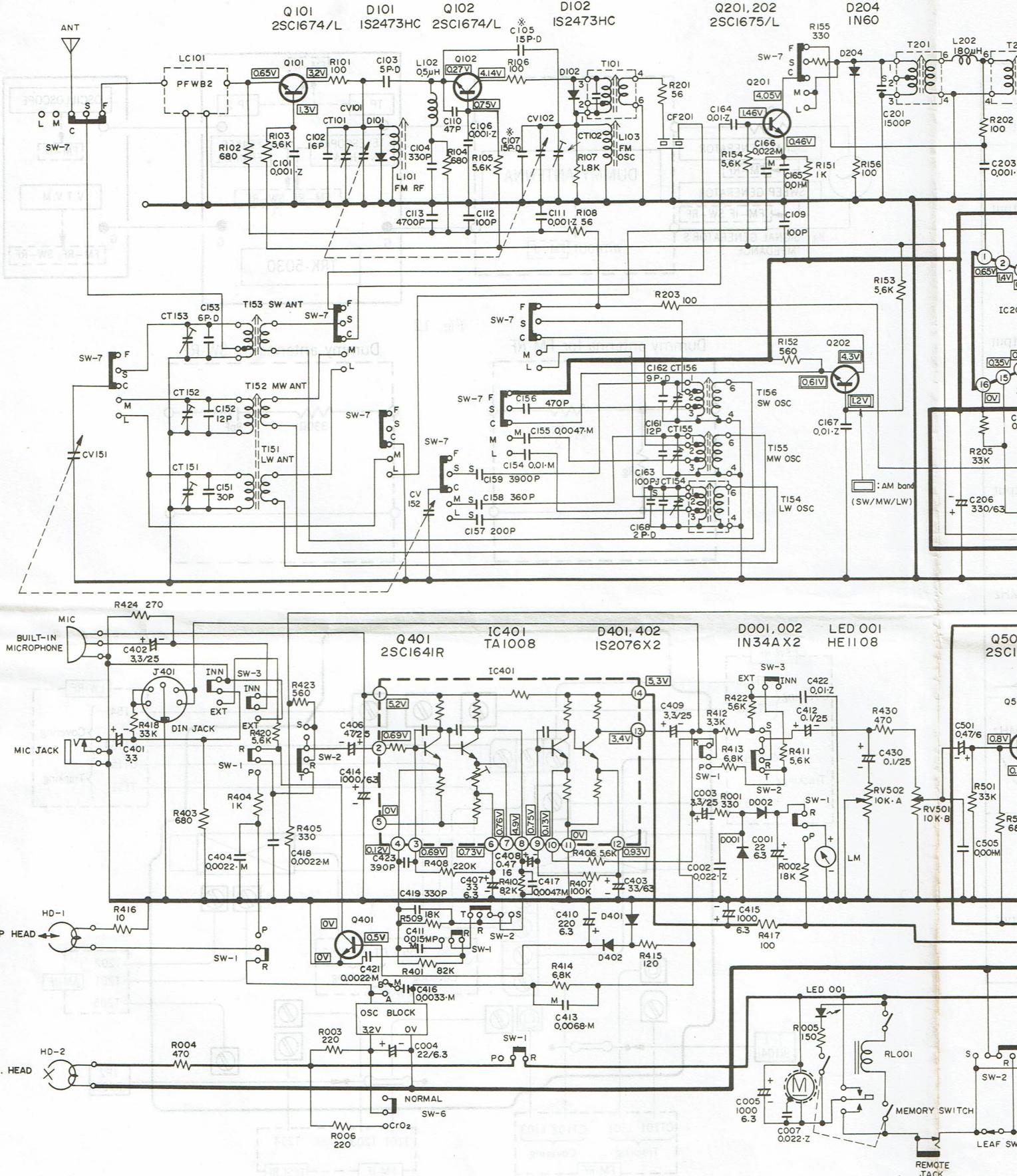
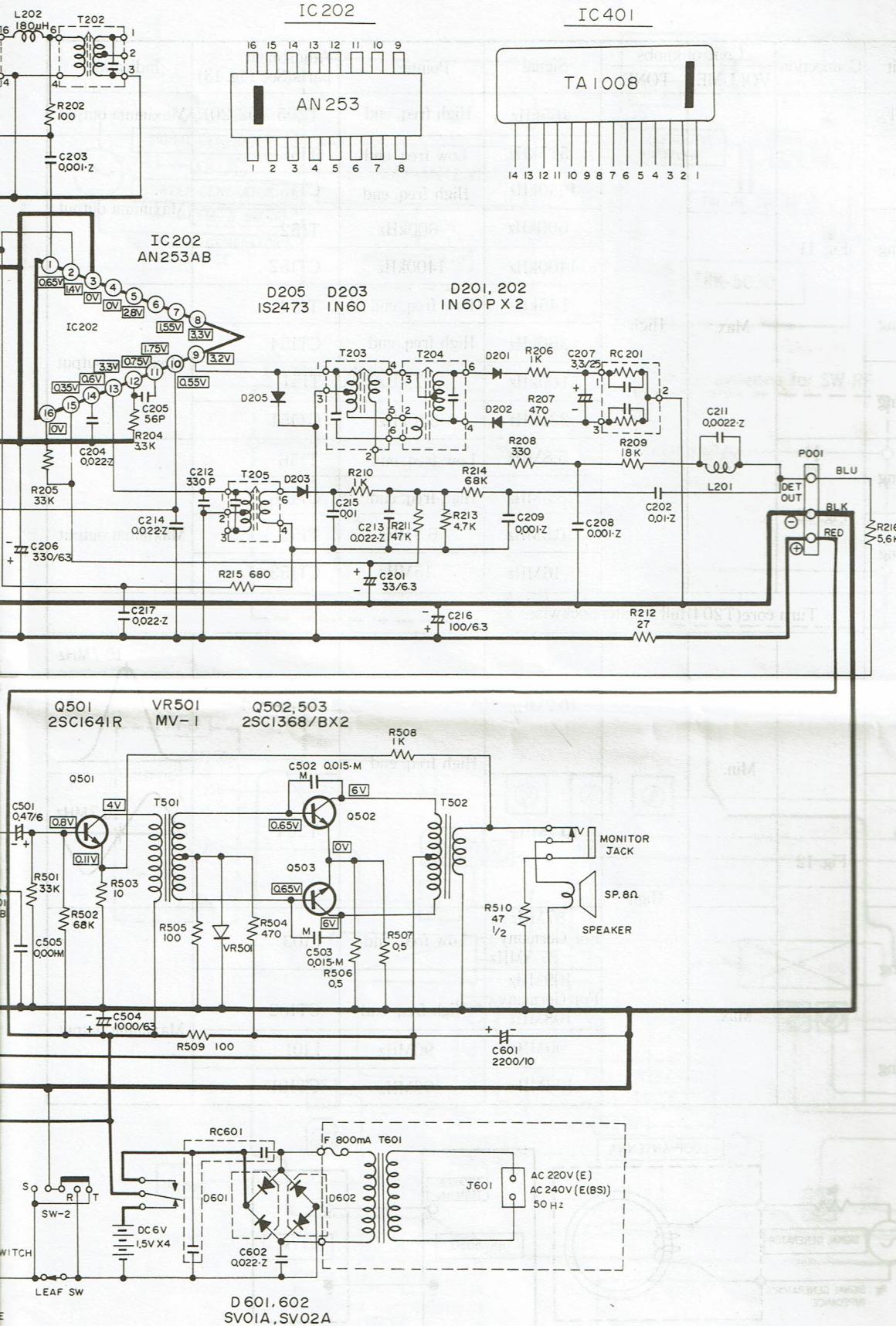


Fig. 13





NOTE

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

RESISTORS

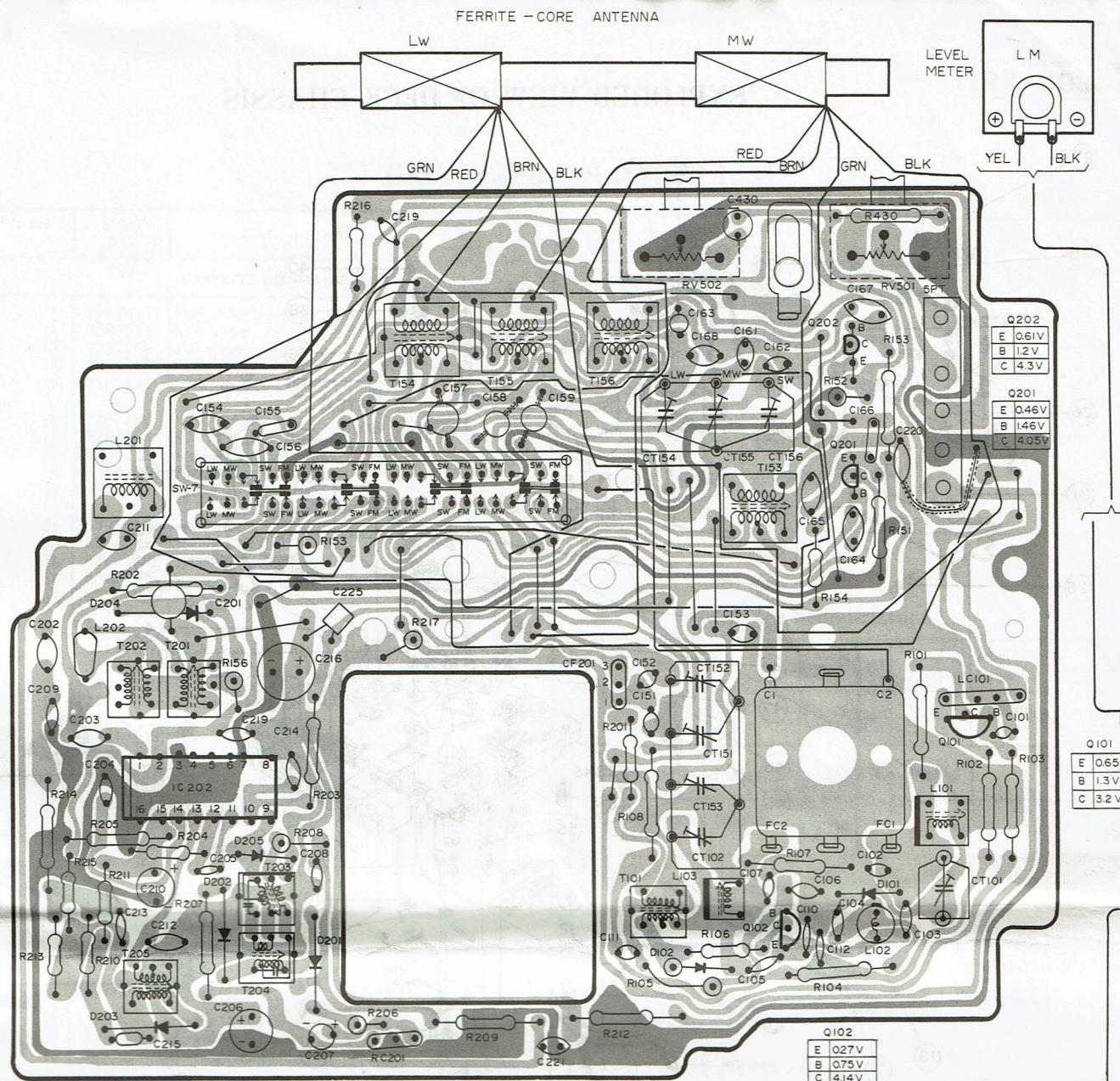
| | |
|-----------|--|
| Value | No indicated : Ω |
| K | : 1000 Ω |
| Wattage | No indicated : 1/4W. |
| Tolerance | No indicated : $\pm 5\%$ |
| Sort | No indicated : Carbon film RC : Composition RS : Metal oxide |
| Example | R101.....Circuit No. 150.....Value RS · I · K.....Sort · Wattage · Tolerance |

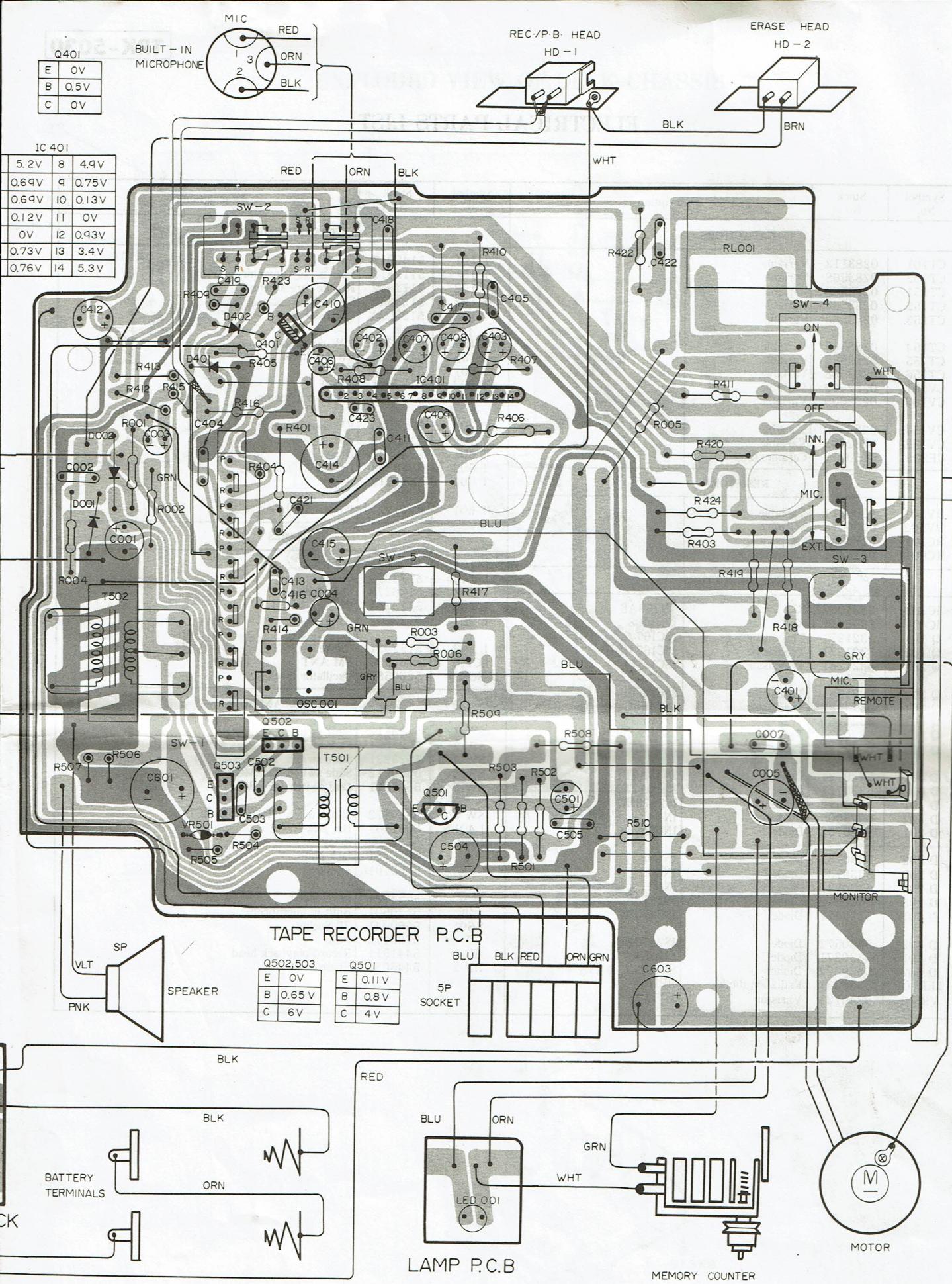
CAPACITORS

| | |
|-----------|---|
| Value | No indicated : μF |
| P | : pF |
| Voltage | No indicated : 50VW |
| Tolerance | No indicated : $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80, -20\%$ D : $\pm 0.5\text{pF}$ C : $\pm 0.25\text{pF}$ |
| Sort | Ceramic |
| | Electrolytic |
| M | Mylar |
| S | Styrol |
| Example | C101.....Circuit No. 10/25.....Value/voltageSort |

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.

4. When replacing capacitors marked with $\#$, Use specified ones stated on parts list since required temperature characteristics.

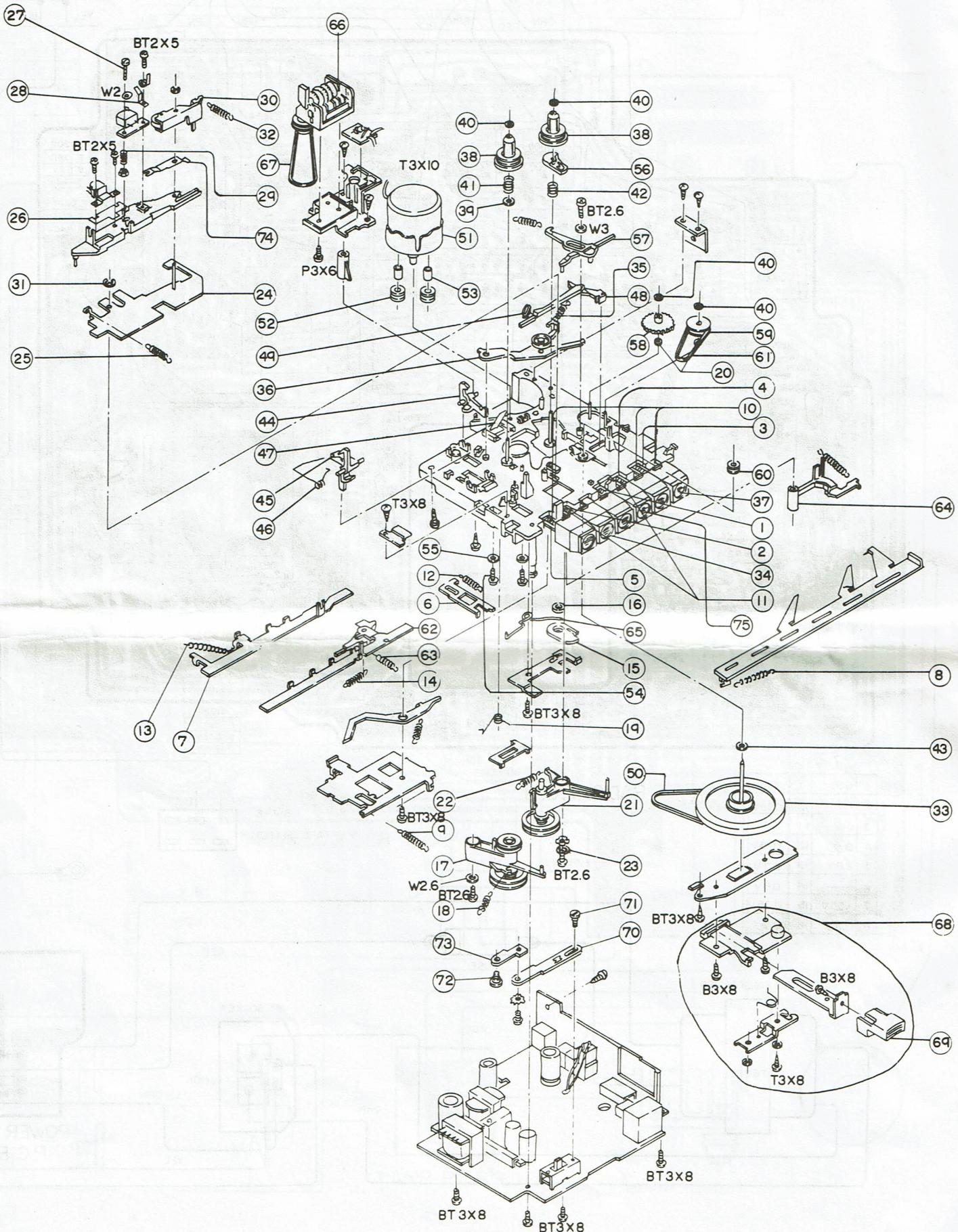




ELECTRICAL PARTS LIST

| Symbol No. | Stock No. | Description | | Symbol No. | Stock No. | Description | |
|-----------------------|-----------|-----------------|------------|----------------------|-----------|---------------------------------|--|
| CAPACITORS | | | | TRANSFORMERS | | | |
| CT101 | 0283113 | Variable | | T 101 | 5140017 | FM IF | |
| CT102 | 0283568 | Variable | | T 151 | 5112812 | Ferrite-core antenna | |
| CT151 | 0283568 | Variable | | T 152 | 5112812 | Ferrite-core antenna | |
| CT152 | 0283568 | Variable | | T 153 | 5123341 | SW ANT | |
| CT153 | 0283568 | Variable | | T 154 | 5120063 | LW oscillator | |
| CT154 | 0283565 | Variable | | T 155 | 5120319 | MW oscillator | |
| CT155 | 0283565 | Variable | | T 156 | 5123423 | SW oscillator | |
| CT156 | 0283565 | Variable | | T 201 | 5130034 | AM IF | |
| CV101 | 0282609 | Variable | | T 202 | 5130031 | AM IF | |
| CV102 | 0282609 | Variable | | T 203 | 5148033 | FM discriminator | |
| CV151 | 0282609 | Variable | | T 204 | 5148034 | FM discriminator | |
| CV152 | 0282609 | Variable | | T 205 | 5130033 | AM IF | |
| CF201 | 5160213 | Ceramic filter | | T 501 | 5240142 | Driver | |
| RESISTORS | | | | T 502 | 5250784 | Output | |
| RV501 | 5000011 | Variable | | T 601 | 5211718 | Power [E] | |
| RV502 | 5000012 | Variable | | T 601 | 5211717 | Power [BS] | |
| RC201 | 0186357 | CR pack | | COILS | | | |
| RC601 | 0186451 | CR pack | | L 101 | 5126006 | FM RF | |
| SEMICONDUCTORS | | | | L 102 | 5123271 | Choke | |
| IC202 | 5351062 | IC | AN253AB | L 103 | 5126278 | FM oscillator | |
| IC401 | 5356211 | IC | TA-1008 | L 104 | 5123271 | Choke | |
| Q 101 | 5321271 | Transistor | 2SC1674L | L 201 | 5120302 | AFC | |
| Q 102 | 5321271 | Transistor | 2SC1674L | L 202 | 5152031 | Choke | |
| Q 201 | 5321281 | Transistor | 2SC1675L | LC101 | 5161551 | FM ANT | |
| Q 202 | 5321281 | Transistor | 2SC1675L | OSC001 | 5260581 | Oscillator block | |
| Q 401 | 0573481 | Transistor | 2SC458C | MISCELLANEOUS | | | |
| Q 501 | 5321261 | Transistor | 2SC1641R | SW-1 | 5623112 | Slide switch (REC./P.B.) | |
| Q 502 | 5320921 | Transistor | 2SC1368BCP | SW-2 | 5624051 | Slide switch (TAPE/RADIO/SLEEP) | |
| Q 503 | 5320921 | Transistor | 2SC1368BCP | SW-3 | 5623221 | Slide switch (MIXING, MIC) | |
| D 001 | 5330721 | Diode | 1N34ATFI | SW-4 | 5621212 | Slide switch (MEMORY) | |
| D 002 | 5330721 | Diode | 1N34ATFI | SW-5 | 5603011 | Leaf switch (POWER) | |
| D 101 | 5330572 | Diode | 1S2473HC | SW-6 | 5620872 | Slide switch (TAPE SELECTOR) | |
| D 102 | 0575005 | Diode | 1N60 | J 401 | 5651141 | Din jack | |
| D 201 | 5330732 | Diode | 1N60P | RL001 | 5640303 | Relay | |
| D 202 | 5330732 | Diode | 1N60P | J | 5679281 | Jack plate | |
| D 203 | 5330731 | Diode | 1N60 | SP | 5405101 | Speaker | |
| D 204 | 5330731 | Diode | 1N60 | LM | 5553031 | Level meter | |
| D 205 | 5330572 | Diode | 1S2473HC | MIC | 5420601 | Built-in microphone | |
| D 401 | 5330572 | Diode | 1S2473HC | J 601 | 5650041 | 2P Socket | |
| D 402 | 5330572 | Diode | 1S2473HC | F | 5720175 | Fuse | |
| D 601 | 5330371 | Diode | SVO1A | HD-1 | 5441511 | Record/playback head | |
| D 602 | 5330372 | Diode | SVO2A | HD-2 | 5445051 | Erase head | |
| LED001 | 5380031 | Radiation diode | HE1108 | | | | |
| VR501 | 5340121 | Varistor | MV-1 | | | | |

EXPLODED VIEW OF DECK CHASSIS



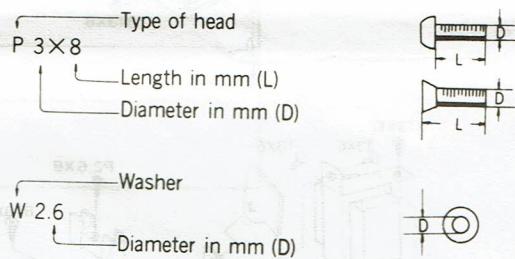
DECK CHASSIS PARTS LIST

| Symbol No. | Stock No. | Description | Symbol No. | Stock No. | Description |
|-------------------------------|-----------|---|------------|-----------|------------------------|
| CASSETTE DECK ASSEMBLY | | | | | |
| ① | 7267437 | Play slider assembly | ⑥5 | 6306982 | Spring |
| ② | 7267114 | REC slider | ⑥6 | 5559003 | Counter |
| ③ | 7267206 | F.F slider | ⑥7 | 6354311 | Counter belt |
| ④ | 7267217 | REW slider | ⑥8 | 7272192 | Memory holder assembly |
| ⑤ | 7267132 | STOP slider | ⑥9 | 6258993 | Memory button |
| ⑥ | 7267183 | EJECT slider | ⑦0 | 6734191 | Change-over plate |
| ⑦ | 7267353 | SWITCH plate | ⑦1 | 7777593 | Special screw |
| ⑧ | 6300721 | Spring for pause plate | ⑦2 | 7537411 | Column B |
| ⑨ | 6300552 | Spring for play slider | ⑦3 | 7272171 | Change-over plate |
| ⑩ | 6303613 | Spring for FF, STOP slider | ⑦4 | 7281401 | Head plate holder |
| ⑪ | 6303615 | Spring for REW, REC slider | ⑦5 | 6255533 | Button |
| ⑫ | 6318921 | Spring for EJECT slider | | | |
| ⑬ | 6300143 | Spring for switch plate | | | |
| ⑭ | 6325261 | Spring for lock plate | | | |
| ⑮ | 6725701 | Pause lock piece | | | |
| ⑯ | 0626833 | Felt | | | |
| ⑰ | 6412162 | REW arm assembly | | | |
| ⑱ | 6319481 | Spring for REW arm | | | |
| ⑲ | 6306991 | Spring for R slider | | | |
| ⑳ | 7778183 | Polyester washer | | | |
| ㉑ | 6411493 | Take up arm assembly | | | |
| ㉒ | 6300171 | Spring for take up arm | | | |
| ㉓ | 7189543 | Washer | | | |
| ㉔ | 7277691 | Head setting base assembly | | | |
| ㉕ | 6324432 | Spring for head stand | | | |
| ㉖ | 7767371 | Spacer for head | | | |
| ㉗ | 7780555 | Screw | | | |
| ㉘ | 7277481 | Cassette guide | | | |
| ㉙ | 6321734 | Spring | | | |
| ㉚ | 7267483 | Pressure arm assembly | | | |
| ㉛ | 7230902 | Ering for head setting base assembly | | | |
| ㉜ | 6300761 | Spring for pressure arm assembly | | | |
| ㉝ | 6372222 | Flywheel assembly | | | |
| ㉞ | 6255532 | Button (REC) | | | |
| ㉟ | 6322501 | Spring for FF lever | | | |
| ㉟ | 7267225 | F.F lever assembly | | | |
| ㉟ | 6258921 | Button | | | |
| ㉟ | 6411754 | Turntable assembly | | | |
| ㉟ | 7786023 | Washer for turntable | | | |
| ㉟ | 7786115 | Polyester washer for turntable mounting | | | |
| ㉟ | 6320733 | Spring for SUP turntable assembly | | | |
| ㉟ | 6303933 | Spring for TU turntable assembly | | | |
| ㉟ | 7778856 | Washer | | | |
| ㉟ | 6732872 | Recording prevention lever | | | |
| ㉟ | 6732942 | Eject arm | | | |
| ㉟ | 6307291 | Spring for eject | | | |
| ㉟ | 6327781 | Holder for cassette | | | |
| ㉟ | 7270783 | Brake piece | | | |
| ㉟ | 6586002 | Brake rubber | | | |
| ㉟ | 6354211 | Belt 1.2 ^{mm} | | | |
| ㉟ | 5572204 | Micro motor | | | |
| ㉟ | 6576082 | Rubber plate | | | |
| ㉟ | 7574172 | Collar | | | |
| ㉟ | 0711312 | Pan head screw 2.6×12 ^{mm} | | | |
| ㉟ | 0626580 | Washer | | | |
| ㉟ | 6732804 | Cam assembly | | | |
| ㉟ | 6732833 | Arm | | | |
| ㉟ | 6348273 | Cam gear | | | |
| ㉟ | 6348282 | Pulley gear | | | |
| ㉟ | 6346601 | Pulley | | | |
| ㉟ | 6354121 | Belt | | | |
| ㉟ | 7267237 | Lock plate assembly | | | |
| ㉟ | 6318611 | Spring | | | |
| ㉟ | 6732891 | S arm | | | |

Hardware nomenclature

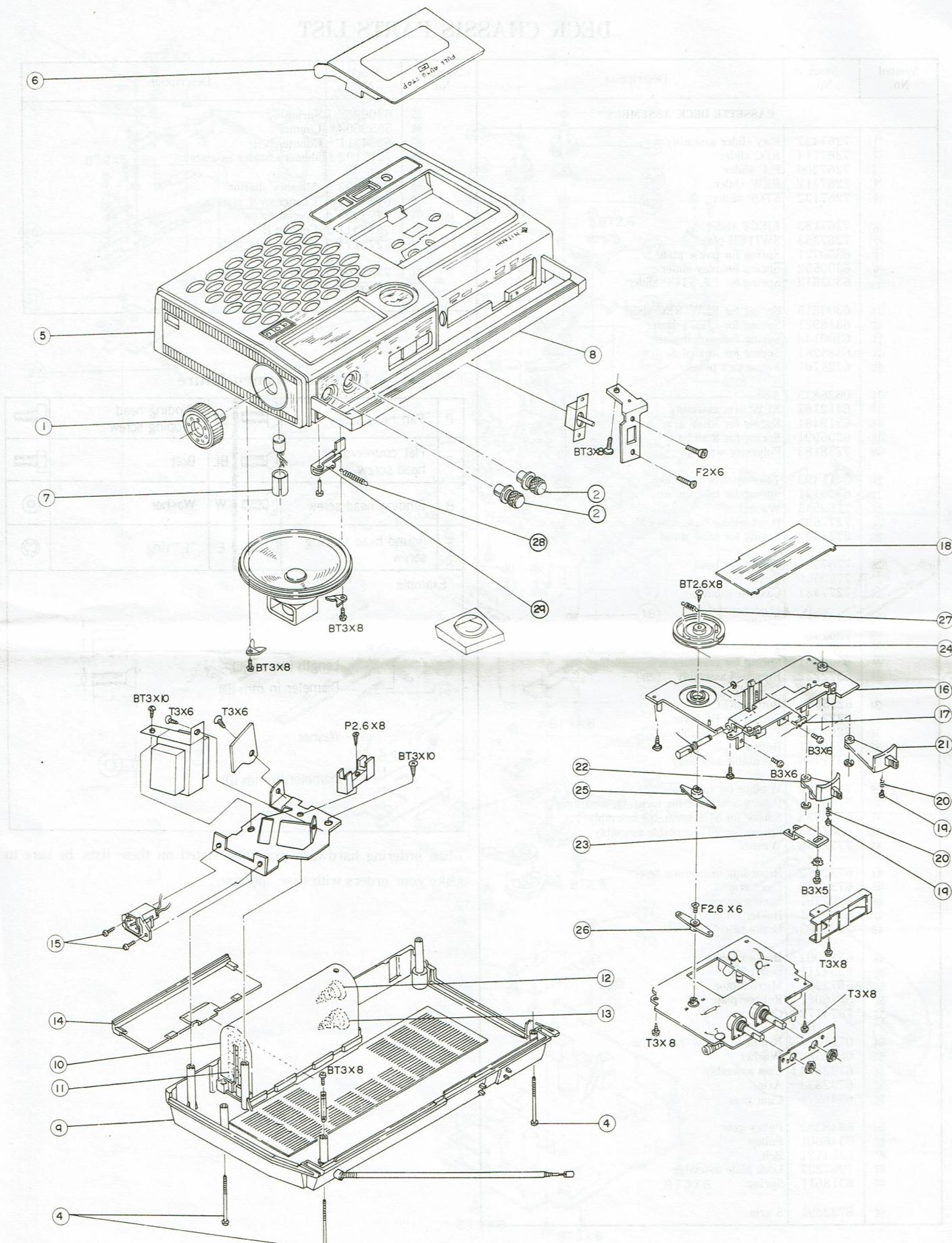
| | | | | | |
|---|-----------------------------|--|----|----------------------------|--|
| P | Pan head screw | | BT | Binding head Tapping screw | |
| F | Flat countersunk head screw | | BL | Bolt | |
| B | Binding head screw | | W | Washer | |
| T | Round head tapping screw | | E | "E" ring | |

Example



when ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

EXPLODED VIEW OF CASE



CASE PARTS LIST

| Symbol No. | Stock No. | Description |
|---------------|-----------|-----------------------------------|
| MISCELLANEOUS | | |
| ① | 6280581 | Knob assembly (TUNNING) |
| ② | 6280991 | Knob assembly (VOLUME, TONE) |
| ④ | 7777945 | Bind screw for rear case mounting |
| ⑤ | 6134475 | Front case assembly |
| ⑥ | 6090362 | Cassette lid assembly |
| ⑦ | 7668391 | Microphone cover |
| ⑧ | 6333113 | Handle assembly |
| ⑨ | 6134495 | Rear case assembly (E) |
| | 6134496 | Rear case assembly (BS) |
| ⑩ | 7450341 | Terminal |
| ⑪ | 7450342 | Terminal } for battery |
| ⑫ | 6325541 | Spring |
| ⑬ | 6325542 | Spring |
| ⑭ | 6171813 | Battery cover assembly |
| ⑯ | 6734162 | Chassis assembly |
| ⑰ | 6395213 | Pointer |
| ⑱ | 6478486 | Scale plate |
| ㉑ | 6298133 | Change-over arm |
| ㉒ | 6298134 | Change-over arm |
| ㉓ | 6730742 | Change-over lever |
| ㉔ | 6340311 | Pulley |
| ㉕ | 6723472 | Arm A |
| ㉖ | 6723481 | Arm B |
| ㉗ | 6316231 | Spring M |
| ㉘ | 6325061 | Spring |
| ㉙ | 7272112 | Push arm |
| ACCESSORIES | | |
| | 5731011 | Earphone |
| | 5743898 | Power cord |
| | 5746341 | Power cord |



Head Office : 5-1, 1-chome, Marunouchi, Chiyoda-ku, Tokyo

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