

# TC-W550/W551

## SERVICE MANUAL

TC-W550/TC-W551  
US Model

TC-W550  
Canadian Model  
AEP Model



Photo: TC-W550

Dolby noise reduction manufactured under license from  
Dolby Laboratories Licensing Corporation.  
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Dolby Laboratories Licensing Corporation.

### SPECIFICATIONS

Recording system 4-track 2-channel stereo

Fast-winding time

Approx. 90 sec. (with C-60 cassette)

Bias frequency 105 kHz

Signal-to-noise ratio (NAB, at peak level)

| Dolby NR switch         | OFF   | B-TYPE ON | C-TYPE ON |
|-------------------------|-------|-----------|-----------|
| Cassette                |       |           |           |
| TYPE IV (Sony METAL-ES) | 58 dB | 65 dB     | 71 dB     |
| TYPE II (Sony UX-S)     | 57 dB | 64 dB     | 70 dB     |
| TYPE I (Sony HF-S)      | 54 dB | 61 dB     | 67 dB     |

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

#### SAFETY-RELATED COMPONENT WARNING!!

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

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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



|                                    |                        |
|------------------------------------|------------------------|
| Model Name Using Similar Mechanism | DECK A: TC-W530        |
|                                    | DECK B: TC-W530        |
| Tape Transport Mechanism Type      | DECK A: TCM-CMAY, A-4  |
|                                    | DECK B: TCM-CMAY, B-11 |

#### Frequency response (DOLBY NR OFF)

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| TYPE IV cassette (Sony METAL-ES) | 30 - 15,000 Hz (±3 dB) (DIN)<br>30 - 13,000 Hz (±3 dB, 0VU recording) |
| TYPE II cassette (Sony UX-S)     | 30 - 15,000 Hz (±3 dB) (DIN)                                          |
| TYPE I cassette (Sony HF-S)      | 30 - 14,000 Hz (±3 dB) (DIN)                                          |

Wow and flutter 0.07% WRMS (NAB) ±0.2% (DIN)

#### Inputs/Outputs

|                                       |                    |                                             |
|---------------------------------------|--------------------|---------------------------------------------|
| Line inputs (phono jacks)             | Sensitivity        | 77.5 mV (-20 dB)                            |
|                                       | Input impedance    | 50 kilohms                                  |
| Line outputs (phono jacks)            | Rated output level | 0.44 V (-5 dB) at load impedance 47 kilohms |
|                                       | Load impedance     | Over 10 kilohms                             |
| Headphones output (stereo phone jack) | Output level       | -28 dB at load impedance 8 ohms             |

0 dB = 0.775 V

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STEREO CASSETTE DECK  
**SONY**®

TC

# TC-W550/W551

## General

### Power requirements

US, Canadian model:

120 V AC, 60 Hz

AEP model:

220 V AC, 50/60 Hz

### Dimensions

Approx. 430 x 130 x 275 mm (w/h/d)

(17 x 5 $\frac{1}{8}$  x 10 $\frac{7}{8}$  inches)

including projecting parts and controls

### Weight

Approx. 4.9 kg (10 lbs 13 oz)

### Supplied accessories

Connecting cord (2)

Remote control cord (1)

### Optional accessory

Wireless remote control unit RM-88

## FEATURES

### Double decks

The unit consists of two decks: deck A for playback and deck B for recording/playback.

### Two-speed dubbing

Normal speed for dubbing while monitoring the selections.  
High speed for dubbing the whole cassette in a short time.

### Edit functions

By pausing the decks manually while dubbing, you can search for any portion to be dubbed with the rightward/leftward fast winding.

### Type B and C Dolby noise reduction\* system

Reduces tape hiss noise in low level high frequency signals.

### Other features

- Relay playback for long hours
- Synchronized recording with a turntable system (for TC-W551)
- Record muting
- Handy remote control operation (with the optional Sony RM-88 remote control unit)

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
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## SECTION 1 OUTLINE

### 1-1. LOCATION AND FUNCTION OF CONTROLS

#### FRONT PANEL

## SAFETY CHECK-OUT (US Model)

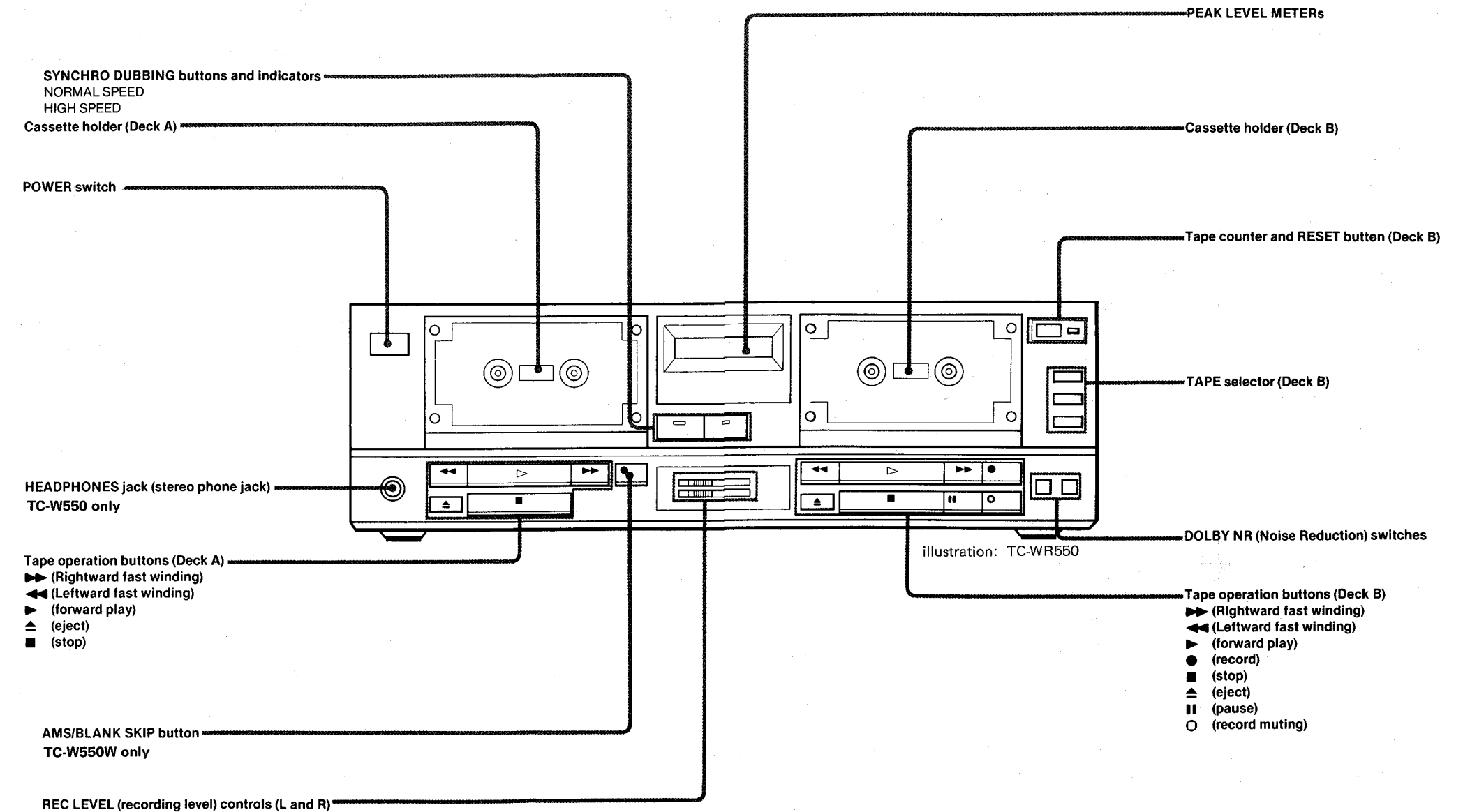
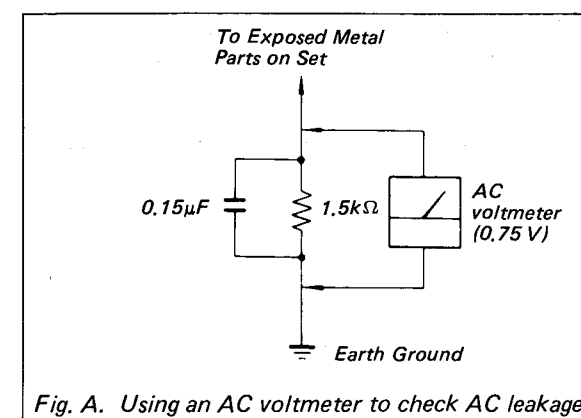
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

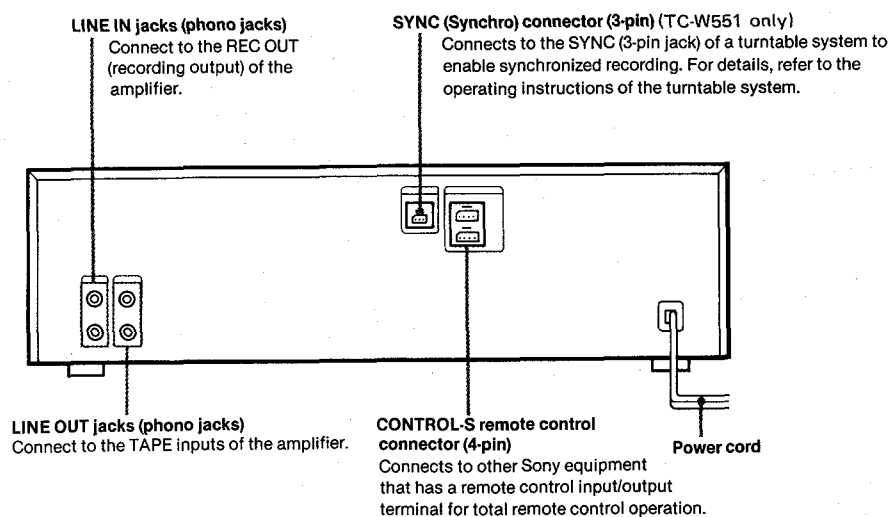
### LEAKAGE TEST

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

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



**REAR PANEL**

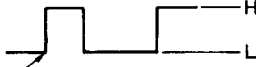
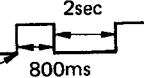


## 1-2. IC501 (M50742-404) PIN FUNCTIONS

IC501 (M50742-404) is a 4 bit microcomputer which controls the mechanism, does key input and LED display.

The pin functions, key matrix and LED matrix descriptions follow.

| Pin No. | Pin Name                                                                                     | I/O | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|----------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | VDD                                                                                          | —   | Power supply pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2       | A-MOTOR (FWD)                                                                                | O   | A deck reel motor (FWD) drive output pin.<br>“L” when A deck reel motor rotates FWD, otherwise “H”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3       | A-MOTOR (REV)                                                                                | O   | A deck reel motor (REV) drive output pin.<br>“L” when A deck reel motor rotates reverse, otherwise “H”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4       | B-MOTOR (FWD)                                                                                | O   | B deck reel motor (FWD) drive output pin.<br>“L” when B deck reel motor rotates FWD, otherwise “H”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5       | B-MOTOR (REV)                                                                                | O   | B deck reel motor (REV) drive output pin.<br>“L” when B deck reel motor rotates reverse, otherwise “H”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6       | LED3                                                                                         | O   | Anode side output pins to dynamically light up LED.<br>Not used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 7       | LED2                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8       | LED1                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9       | LED0                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10      | KEY7                                                                                         | I   | Key matrix key return signal input pins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11      | KEY6                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12      | KEY5                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13      | KEY4                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 14      | AMS/BS                                                                                       | I   | AMS/BS (blank skip) key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15      | TC STOP                                                                                      | I   | Direct function stop signal input pin.<br>“L” when amp function is at “TAPE”, “H” otherwise. When “H” is input during playback, stop occurs, but not during recording. Not used.                                                                                                                                                                                                                                                                                                                                                                                                         |
| 16      | SYNCHRO-  | I   | Synchro pause release signal input pin.<br>“L” when synchro pause release signal is input; otherwise “H”. Only accepted when B deck is in recording mute or recording pause. Not used.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 17      | SYNCHRO-  | I   | Synchro recording mute signal input pin.<br>“L” when synchro recording mute signal is input; otherwise “H”. Only accepted during B deck recording.<br><br>If 16 SYNCHRO-  and 17 SYNCHRO-  above both input “L” at the same time, remote control AMS/  input is judged, and during recording, recording mute operation results. |
| 18      | B-        | I   | B deck  key input pin. Not used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 19      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 20      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 21      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 23      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 24      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 25      | B-        | I   | B deck  key input pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 26      | POWER OFF                                                                                    | I   | Power detection pin.<br>“H” is input for power ON and “L” for power OFF. For power OFF when head is up, the head is lowered immediately.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 27      | GND                                                                                          | —   | Ground pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 28      | RST                                                                                          | I   | External reset signal input pin.<br>Reset operation is performed for “L” level input.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Pin No.  | Pin Name                                                                                        | I/O    | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29<br>30 | XI<br>XO                                                                                        | I<br>O | Clock oscillation pins.<br>(3.58 MHz on this model.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 31       | CLK                                                                                             | O      | Timing signal output pin.<br>Supplies 895 kHz clock to RMS controller. Not used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 32       | GND                                                                                             | —      | Ground pin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 33       | A-SHUT OFF                                                                                      | I      | <ul style="list-style-type: none"> <li>A deck reel table rotation signal input pin. When a pulse (  ) is input during A deck PB, FF, FR and "H" continues for 2 seconds during PB or 0.5 seconds during FF or FR, shut off occurs.</li> <li>During power ON Switching input pin for 1 direction/2 direction playback.</li> </ul> <p>1 direction playback: </p> <p>POWER ON</p> <p>2 direction playback: "H"</p> |
| 34       | B-SHUT OFF                                                                                      | I      | B deck reel table rotation signal input pin. When a pulse (  ) is input during B deck PB, recording, FF, FR and "H" continues for 2 seconds during PB or recording or for 0.5 seconds during FF or FR, shut off occurs.                                                                                                                                                                                                                                                                           |
| 35       | $\bar{Q}$                                                                                       | I      | B deck leader tape sensor (quick sensor) signal input pin.<br>At leader tape: "L"<br>At magnetic coating: "H"<br>When "L" is input during B deck playback or recording, B deck reverses rotation. However, only operates for from FWD to REV direction. Also, does not operate for 8 seconds from the start of FWD.                                                                                                                                                                                                                                                                |
| 36       |  /TIMER REC  | I      | <ul style="list-style-type: none"> <li>Direction mode switching signal input pin. When direction mode is , "L", otherwise "H".</li> <li>During power ON TIMER REC signal input pin.</li> </ul> <p>TIMER REC: </p> <p>POWER ON</p> <p>Otherwise: "H" Not used.</p>                                                                                                                                           |
| 37       |  /TIMER PLAY | I      | <ul style="list-style-type: none"> <li>Direction mode switching signal input pin. "L" when direction mode is , otherwise "H".</li> <li>During power ON TIMER PLAY signal input pin.</li> </ul> <p>TIMER PLAY: </p> <p>POWER ON</p> <p>Otherwise: "H" Not used.</p>                                                                                                                                          |
| 38       | AMS SIG                                                                                         | I      | AMS signal input pin. "H" during recorded portion, "L" during blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 39<br>40 | BACK<br>GO                                                                                      | I      | RMS control signal input pin.<br>Receives "back" or "go" commands from RMS controller during RMS.<br>Both "H" during RMS OFF, both "L" when RMS is set, then after pin 41 REQ output, for "back" command, pin 39 BACK: "L", pin 40 GO: "H". For "go" command, pin 39 BACK: "H", pin 40 GO: "L" are input from RMS controller.<br>Not used.                                                                                                                                                                                                                                         |
| 41       | REQ                                                                                             | O      | Output pin for request signal to RMS controller. Outputs "L" to receive command from RMS controller during RMS. Not used.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 42       | TIMER                                                                                           | O      | "L" for two seconds only after reset (0.8 seconds), otherwise "H".<br>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 43       | TC FUNCTION                                                                                     | O      | Direct function signal output pin.<br>"  " when A deck and B deck  or  key is ON, otherwise "H".<br>Not used.                                                                                                                                                                                                             |

| Pin No.              | Pin Name          | I/O | Function                                                                                                                                                                    |
|----------------------|-------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 44                   | SIRCS MUTE        | O   | Remote control prohibit signal output pin. "L" during dubbing so that remote control can not operate. Otherwise "H".                                                        |
| 45                   | A-PLAY MONITOR    | O   | A deck playback monitor signal output pin. "L" during A deck playback to inform RMS controller of playback. "H" at other times. Not used.                                   |
| 46                   | LINE MUTE RELEASE | O   | Line muting release signal output pin. "L" for A deck, B deck playback and during dubbing, "H" at other times.                                                              |
| 47                   | H.P MUTE RELEASE  | O   | Headphone, line output meter muting release signal output pin. "L" for A deck playback, B deck playback and recording, and dubbing; otherwise "H".                          |
| 48                   | REC MUTE RELEASE  | O   | Recording muting release signal output pin. "L" during B deck recording and dubbing, otherwise "H".                                                                         |
| 49                   | A-RMS MONITOR     | O   | A deck RMS monitor signal output pin. "L" during RMS operation to inform RMS controller of RMS operation. Not used.                                                         |
| 50                   | BIAS              | O   | Recording bias oscillation control signal output pin. "L" during B deck recording and dubbing, otherwise "H".                                                               |
| 51                   | REC RELAY         | O   | Relay control signal output pin.<br>"L" when B deck ● (REC) key, HIGH SPEED DUBBING key or NORMAL SPEED DUBBING key is ON, otherwise "H".                                   |
| 52                   | PB/REC            | O   | Playback/recording switching signal output pin. "L" when B deck ● (REC) key is ON, otherwise "H".                                                                           |
| 53                   | B-PLAY            | O   | A deck/B deck switching signal output pin.<br>"L" during B deck playback, otherwise "H".                                                                                    |
| 54                   | A-PLAY            | O   | A deck/B deck switching signal output pin. "L" during A deck playback; otherwise "H". Not used.                                                                             |
| 55                   | HIGH SPEED        | O   | Normal speed dubbing/high speed dubbing switching signal output pin.<br>"L" for high speed dubbing, otherwise "H".                                                          |
| 56                   | PM-KICK           | O   | Plunger solenoid kick signal output pin.  during plunger solenoid kick, otherwise "H". |
| 57                   | A-PM              | O   | A deck plunger solenoid control signal output pin. "H" when A deck plunger solenoid is ON, otherwise "L".                                                                   |
| 58                   | A-CPM             | O   | A deck capstan motor control signal output pin. "L" when A deck capstan motor is ON, otherwise "H".<br>This output is used to lower reel motor torque.                      |
| 59                   | B-PM              | O   | B deck plunger solenoid control signal output pin. "H" when B deck plunger solenoid is ON, otherwise "L".                                                                   |
| 60                   | B-CPM             | O   | B deck capstan motor control signal output pin. "L" when B deck capstan motor is ON, otherwise "H".<br>This output is used to lower reel motor torque.                      |
| 61<br>62<br>63<br>64 | D<br>C<br>B<br>A  | O   | Key matrix signal source output and cathode side output for dynamic lighting of LED.                                                                                        |

# TC-W550/W551

The diagram is a comprehensive schematic for the TC-W550 reel-to-reel tape deck, covering two decks (A and B). It is organized into several functional blocks:

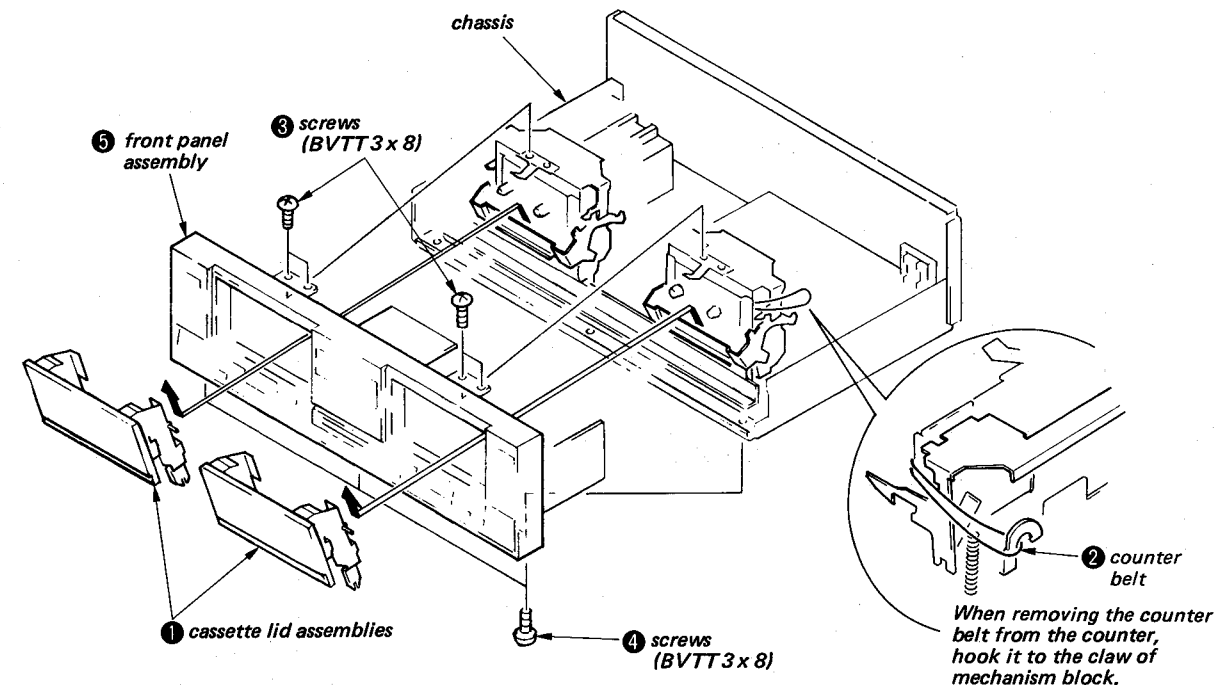
- Input Section:** Features two input channels, L-CH and R-CH, each with a line input (J302-1, J302-2) and a phono input (HP901-1, HP901-2). The L-CH input is connected to a PB EQ AMP (IC305) and a REC EQ AMP (IC308). The R-CH input is connected to a PB EQ AMP (IC306) and a REC EQ AMP (IC308).
- Processing Section:** Includes a DOLBY circuit (IC307) for noise reduction, an AMS AMP (IC502) for automatic level control, and various switches (Q103, Q104, Q105, Q106, Q107) for mode selection and EQ.
- Motor Control Section:** Contains motor drive circuits (Q510-513, Q515-519, Q503, Q507, Q504, Q508) for the reel motors (M902, M951) and capstan motors (M901, M951).
- Transport Control Section:** Includes a main control IC (IC501) and a remote control IC (IC503). It features a series of relays (Q541, Q542, Q543, Q544, Q545, Q546, Q547, Q548, Q549) and switches (Q501, Q502, Q503, Q504, Q505, Q506, Q507, Q508, Q509, Q510, Q511, Q512, Q513, Q514, Q515, Q516, Q517, Q518, Q519, Q520, Q521, Q522, Q523, Q524, Q525, Q526, Q527, Q528, Q529, Q530, Q531, Q532, Q533, Q534, Q535, Q536, Q537, Q538, Q539, Q540, Q541, Q542, Q543, Q544, Q545, Q546, Q547, Q548, Q549) for controlling the tape transport.
- Power Supply Section:** Includes a power transformer (T901) with AC input, and a series of regulators (Q307-309, Q310-312, Q313, Q318) and rectifiers (D303, D304, D305, D306, D312, D316) to provide the necessary DC voltages.
- Other Components:** The diagram also shows various other components such as capacitors (C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C7

## SECTION 2 DISASSEMBLY

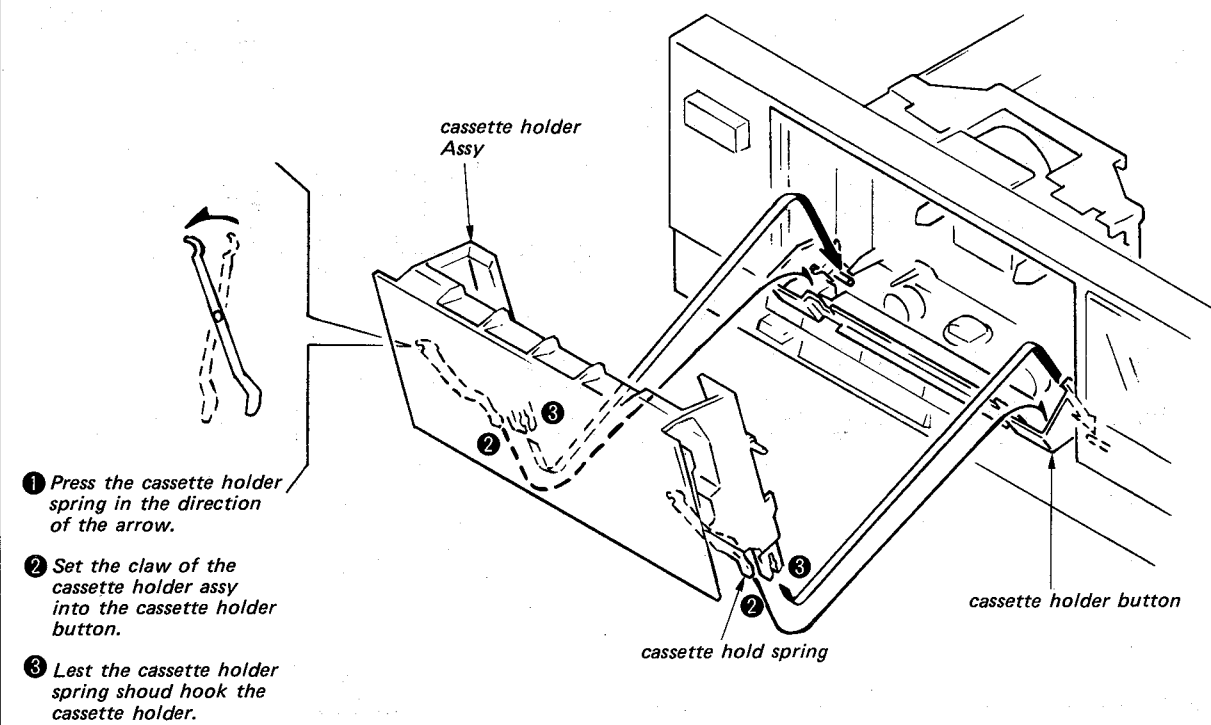
### 2-1. DISASSEMBLY

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

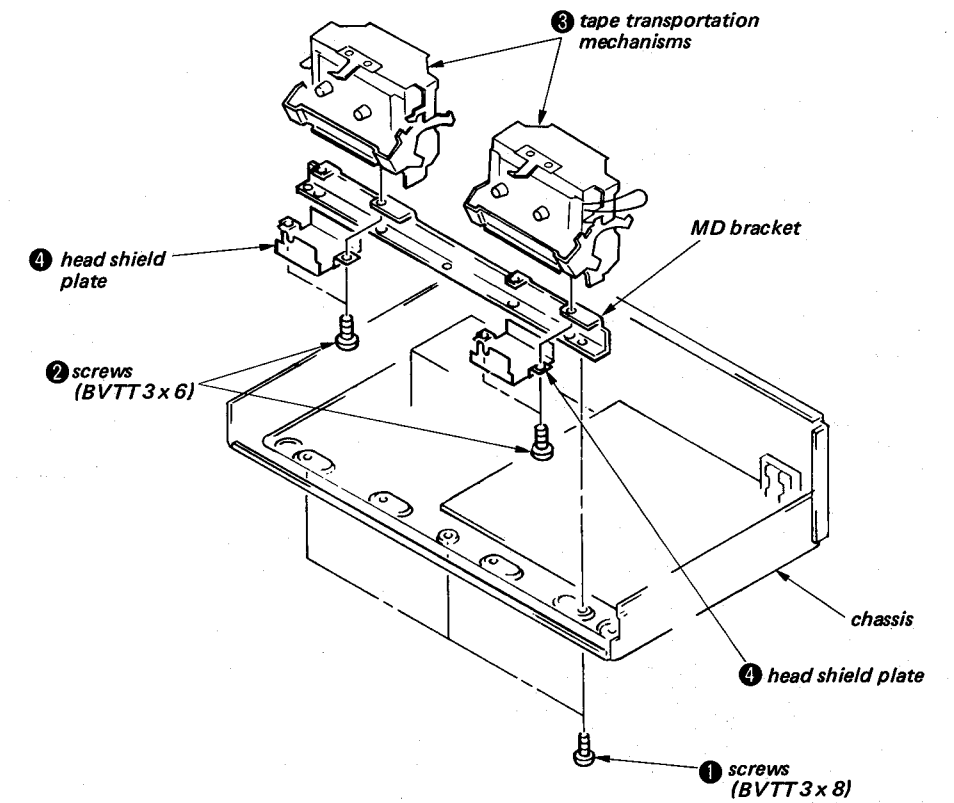
#### FRONT PANEL



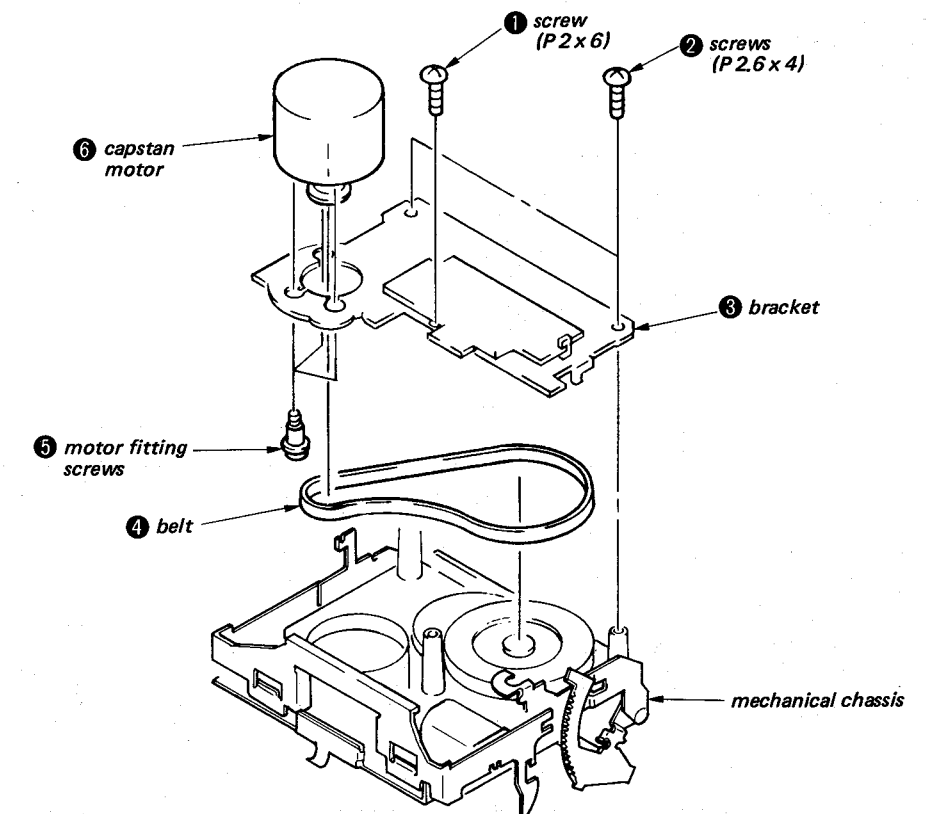
#### CASSETTE HOLDER



#### TAPE TRANSPORTATION MECHANISM



#### MOTOR BELT



## SECTION 3 ADJUSTMENTS

### 3-1. MECHANICAL ADJUSTMENTS

#### PRECAUTION

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

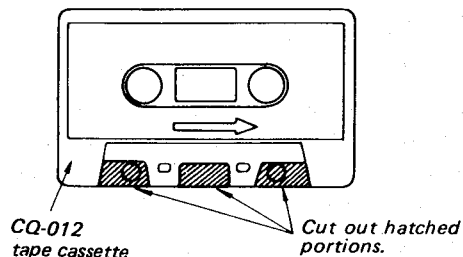
|                      |              |
|----------------------|--------------|
| record/playback head | pinch roller |
| erase head           | rubber belts |
| capstan              | idlers       |
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer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

#### Torque Measurement

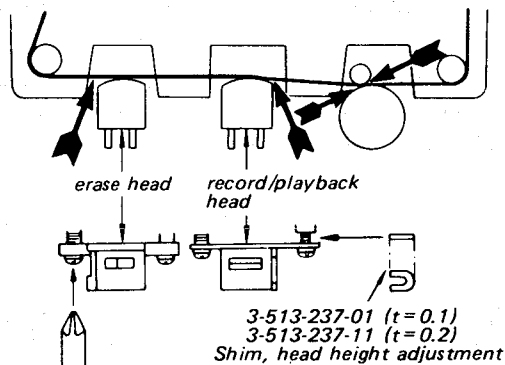
| Torque              | Torque meter | Meter reading                           |
|---------------------|--------------|-----------------------------------------|
| FWD                 | CQ-102C      | 25 to 75 g-cm<br>(0.35 to 1.04 oz-inch) |
| FWD<br>Back tension | CQ-102C      | 1 to 10 g-cm<br>(0.014 to 0.14 oz-inch) |
| FF, REW             | CQ-201B      | 80 to 180 g-cm<br>(1.11 to 2.5 oz-inch) |

#### Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.



## 3-2. ELECTRICAL ADJUSTMENTS

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

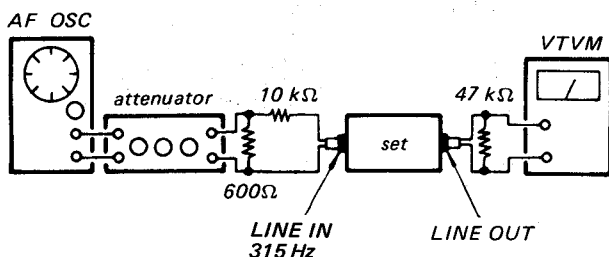
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF  
 SYNCHRO DUBBING switch: NORMAL SPEED  
 TAPE SELECT switch: TYPE I (DECK B)

- Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Mode: record



### Standard Input Level

|                  | LINE IN         |
|------------------|-----------------|
| source impedance | 10 kΩ           |
| input level      | 0.25 V (-10 dB) |

### Standard Output Level

|                | LINE OUT       |
|----------------|----------------|
| load impedance | 47 kΩ          |
| output level   | 0.44 V (-5 dB) |

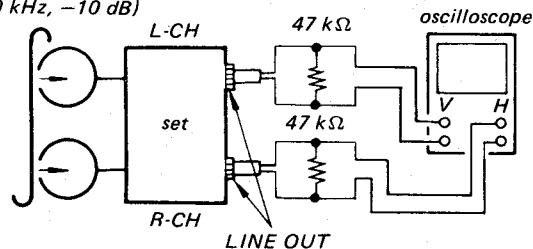
## Record/Playback Head Azimuth Adjustment **DECK A**

Procedure:

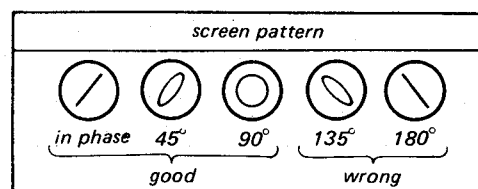
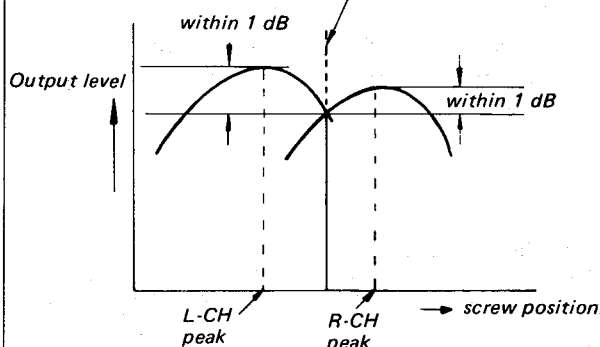
**DECK B**

1. Mode: playback

test tape  
 P-4-A 100  
 (10 kHz, -10 dB)

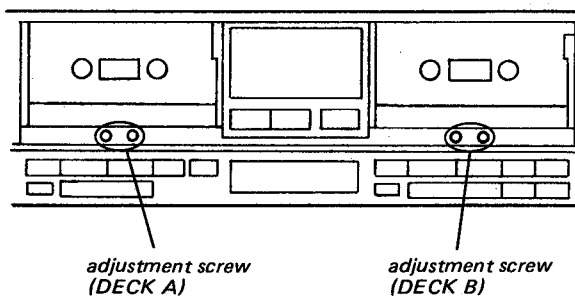


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



3. After the adjustment finishing with tightening direction, lock the adjustment screw with locking compound.
4. After the locking compound dried out, reassemble the function switch block.

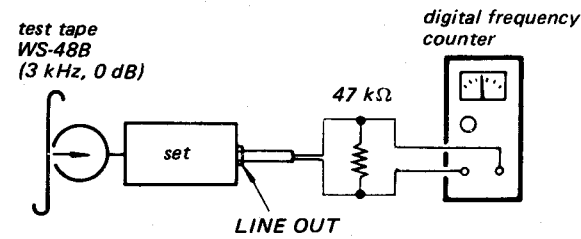
Adjustment Location:



# Tape Speed Adjustment **DECK A** **DECK B**

## Procedure:

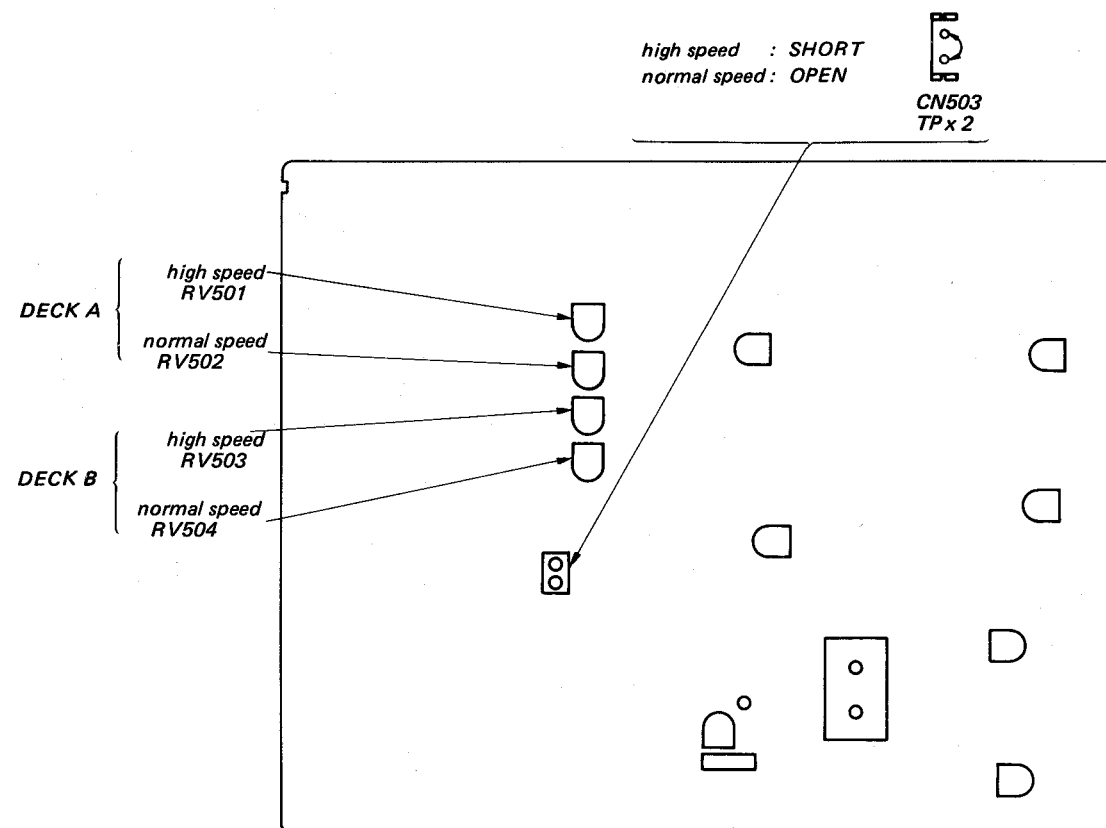
Mode: playback



## Specifications:

|              | Adjustment part |       | Test pin (TP x2) | Digital frequency counter |
|--------------|-----------------|-------|------------------|---------------------------|
| High speed   | Deck A          | RV501 | SHORT            | 5960 to 6040 Hz           |
|              | Deck B          | RV503 |                  |                           |
| Normal speed | Deck A          | RV502 | OPEN             | 2980 to 3020 Hz           |
|              | Deck B          | RV504 |                  |                           |

Adjustment Location: audio board

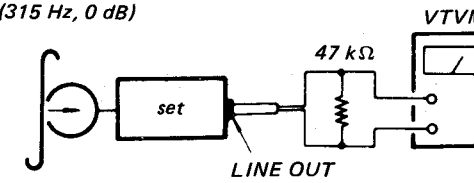


# Playback Level Adjustment **DECK A** **DECK B**

## Procedure:

Mode: playback

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



Adjust,

DECK-A side RV102 (L-CH), RV202 (R-CH)

DECK-B side RV103 (L-CH), RV203 (R-CH)

so that the specifications are satisfied.

## Specification:

LINE OUT level: 0.41 to 0.46 V

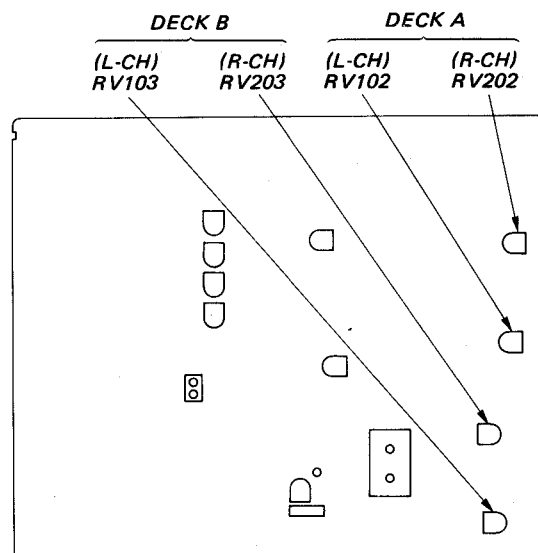
(-5.5 to -4.5 dB)

level difference between the channels:

within 0.5 dB

Confirm that LINE OUT level is not changed when Playback and Stop are repeated.

Adjustment Location: audio board



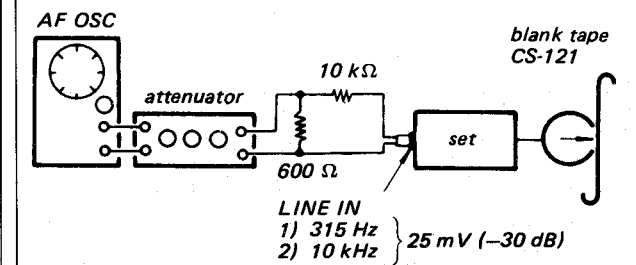
# Record BIAS Adjustment **DECK B**

## Setting:

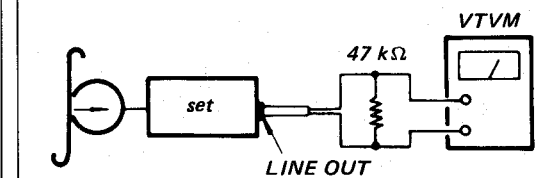
REC LEVEL control: standard record  
(See page 14.)

## Procedure:

1. Mode: record



2. Mode: playback

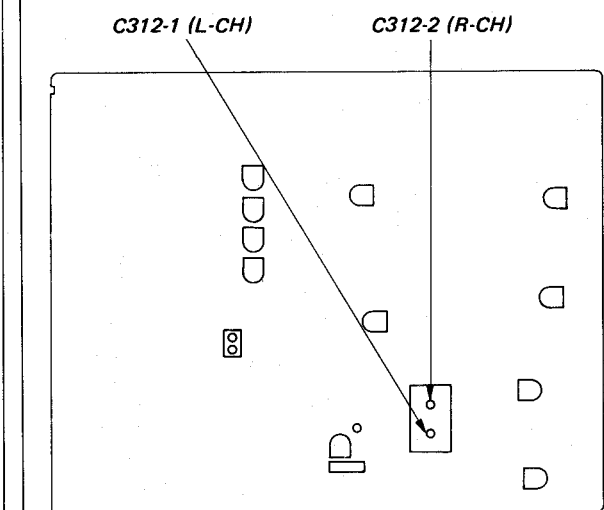


Play back the tape recorded in step 1. If the specification is not satisfied, adjust CT312-1 (L-CH), CT312-2 (R-CH) and repeat steps 1 and 2.

## Specification:

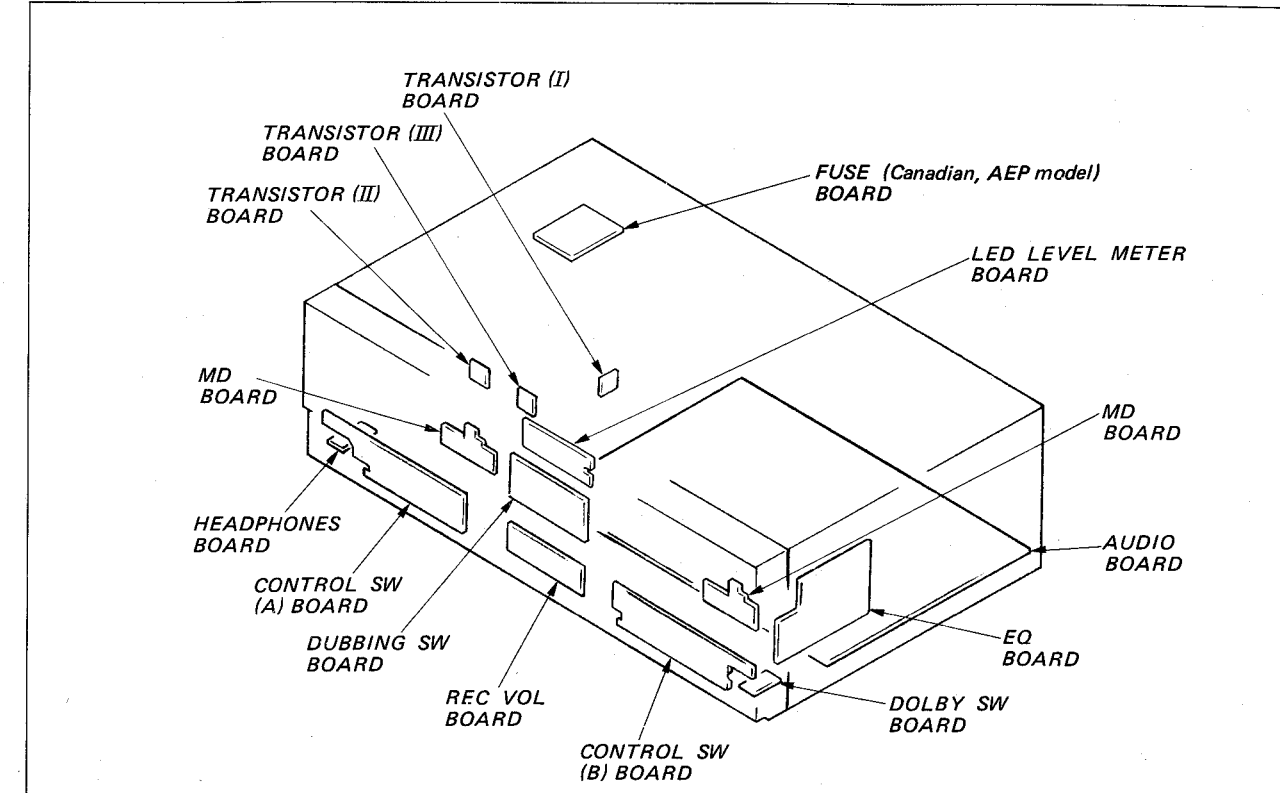
The LINE OUT level of 10 kHz signal relative to that of 315 Hz: -0.5 dB to +0.5 dB.

Adjustment Location: audio board



# SECTION 4 CIRCUIT BOARDS LOCATION

## 4-1. CIRCUIT BOARDS LOCATION



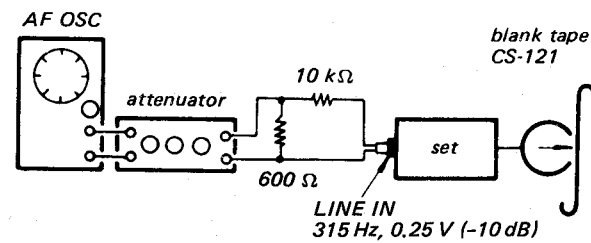
### Record Level Adjustment **DECK-B**

#### Setting:

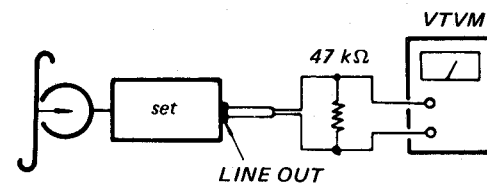
REC LEVEL control: standard record  
(See page 14.)

#### Procedure:

1. Mode: record



2. Mode: playback

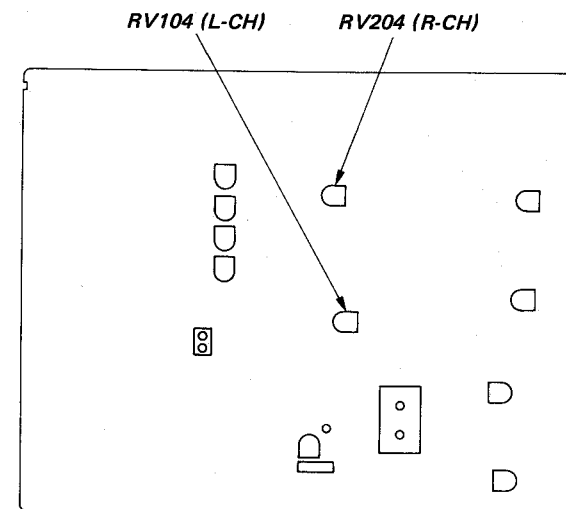


Play back the tape recorded in step 1. If the specification is not satisfied, adjust RV104 (L-CH), RV204 (R-CH) and repeat steps 1 and 2.

#### Specification:

LINE OUT level: 0.41 to 0.46 V  
(-5.5 to -4.5 dB)

Adjustment Location: audio board



## • SEMICONDUCTOR LEAD LAYOUTS

|                                             |                                                          |                                                                                    |                                                                                         |                                                                                               |
|---------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>CX20187</b><br><br>(Top view)            | <b>M5076-417P</b><br><b>M5076-417P</b><br><br>(Top view) | <b>2SA1348</b><br><b>2SC634SP</b><br><b>2SC3399</b><br><b>2SC3402</b><br><br>E C B | <b>2SB1094L</b><br><b>2SD1406</b><br><br>B C E                                          | <b>SEL2510C</b><br><b>MPG3877S</b><br><b>MAY3877S</b><br><b>MPR3877S</b><br><br>anode cathode |
| <b>CXD1017Q</b><br><br>36 37 25 24 48 12 13 | <b>M5218L</b><br><br>1 2 3 4 5 6 7 8                     | <b>2SA1175</b><br><b>2SC2785-E</b><br><br>letter side<br>E C B                     | <b>2SB734</b><br><br>E C B                                                              | <b>MVR4868K</b><br><br>anode cathode                                                          |
| <b>M4066BP</b><br><br>(Top view)            | <b>SEL2210W-C</b><br><br>long short<br>anode cathode     | <b>CXA4559P</b><br><b>μPC4570C-1</b><br><br>(Top view)                             | <b>1SS132</b><br><b>10E2N</b><br><b>HZ4CLL</b><br><b>HZ6C3L</b><br><br>cathode<br>anode | <b>IR2E02</b><br><br>(Top view)                                                               |
| <b>M50742-404SP</b><br><br>(Top view)       | <b>μPC4570HA</b><br><br>1 2 3 4 5 6 7 8 9                | <b>2SB1014</b><br><b>2SC2120Y</b><br><b>2SD1388</b><br><br>E C B                   | <b>1SS202-1</b><br><br>cathode<br>anode                                                 | <b>MPG3877S</b><br><b>MPR3877S</b><br><br>anode                                               |

SECTION 5 DIAGRAMS

5-1. MOUNTING DIAGRAM — Conductor Side —

• See page 18 for semiconductor Lead Layouts and Circuit Boards Location.

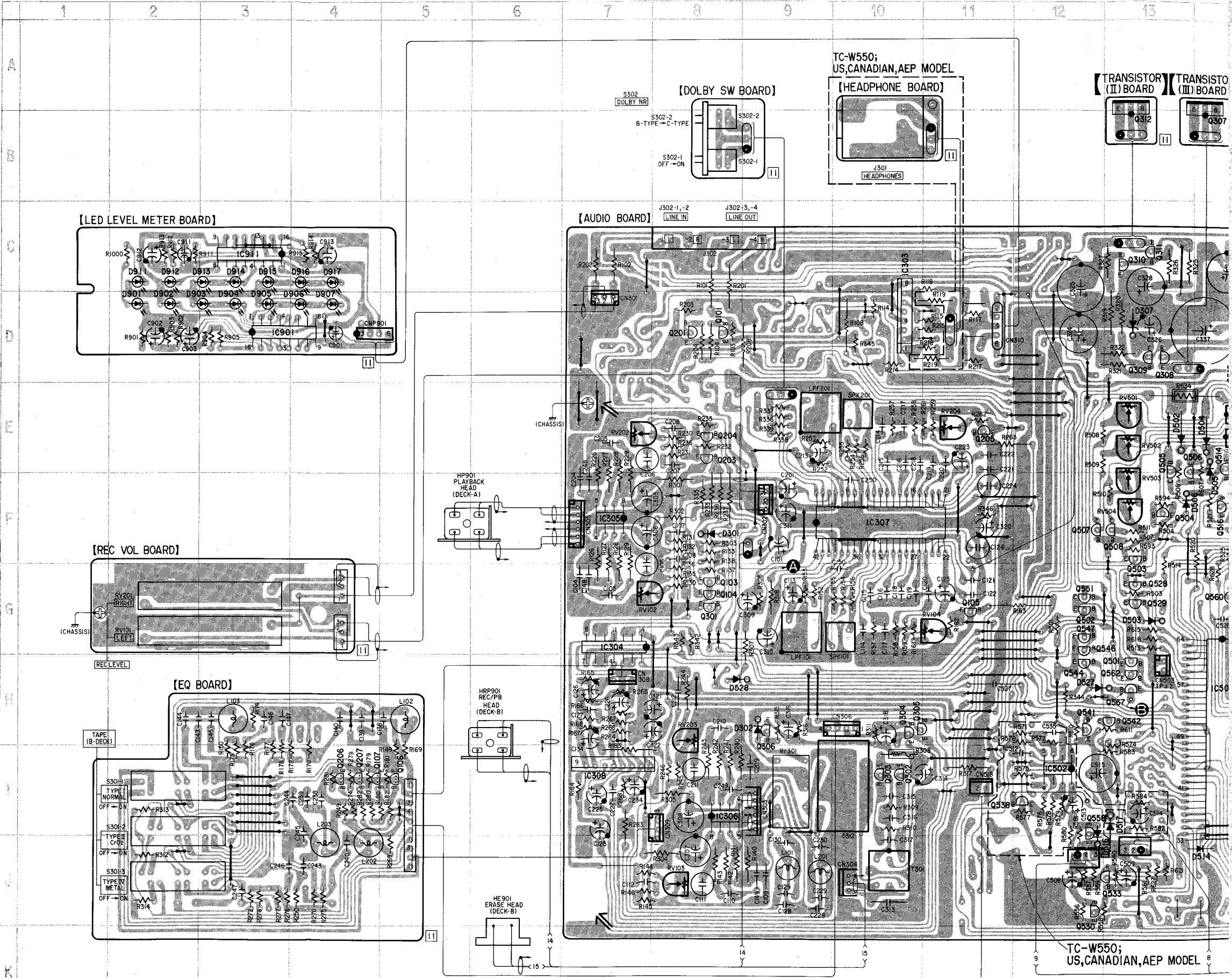
Note:  
○ — : parts extracted from the component side.  
● — : parts extracted from the conductor side.

• SEMICONDUCTOR LOCATIONS

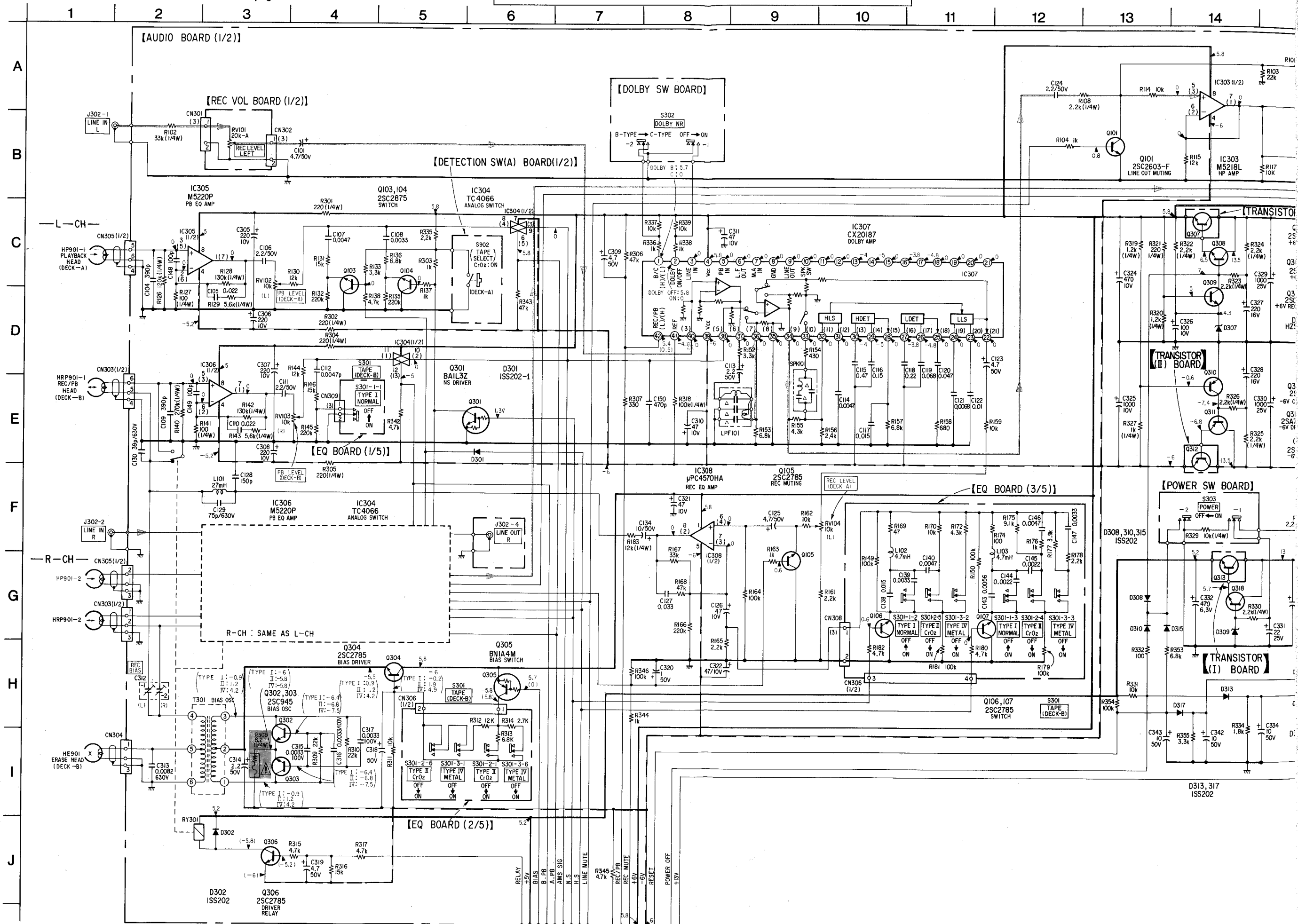
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D301     | F-8      | D904     | D-3      | Q502     | G-12     |
| D302     | H-9      | D905     | D-3      | Q503     | G-13     |
| D303     | D-15     | D906     | D-4      | Q504     | F-13     |
| D304     | C-15     | D907     | D-4      | Q505     | E-13     |
| D305     | C-15     | D911     | C-2      | Q506     | E-13     |
| D306     | C-15     | D912     | C-2      | Q507     | F-12     |
| D307     | D-13     | D913     | C-2      | Q508     | F-13     |
| D308     | D-14     | D914     | C-3      | Q509     | F-15     |
| D309     | D-15     | D915     | C-3      | Q510     | F-14     |
| D310     | D-14     | D916     | C-4      | Q511     | F-15     |
| D312     | E-16     | D917     | C-4      | Q512     | F-15     |
| D313     | E-16     |          |          | Q513     | F-15     |
| D314     | D-14     | IC303    | C-10     | Q514     | E-14     |
| D315     | D-14     | IC304    | G-7      | Q515     | F-14     |
| D316     | E-16     | IC305    | F-7      | Q516     | F-14     |
| D317     | E-16     | IC306    | I-8      | Q517     | F-14     |
| D502     | E-13     | IC307    | F-10     | Q518     | E-15     |
| D503     | G-13     | IC308    | I-7      | Q519     | E-14     |
| D504     | E-14     | IC501    | H-14     | Q520     | F-15     |
| D505     | F-14     | IC502    | I-12     | Q521     | F-15     |
| D506     | F-13     | IC503    | I-15     | Q522     | G-15     |
| D508     | E-15     | IC901    | D-3      | Q525     | H-14     |
| D510     | E-15     | IC911    | C-3      | Q526     | H-15     |
| D514     | J-14     |          |          | Q527     | H-14     |
| D516     | J-12     | Q101     | D-8      | Q528     | G-13     |
| D517     | I-3      | Q103     | G-8      | Q529     | G-13     |
| D518     | J-16     | Q104     | G-8      | Q530     | K-12     |
| D519     | J-16     | Q105     | G-11     | Q533     | J-13     |
| D521     | I-15     | Q106     | I-6      | Q538     | I-11     |
| D522     | I-15     | Q107     | I-5      | Q541     | H-12     |
| D526     | F-16     | Q201     | D-8      | Q542     | H-13     |
| D527     | H-12     | Q203     | E-8      | Q543     | J-15     |
| D528     | H-8      | Q204     | E-8      | Q544     | H-12     |
| D529     | H-15     | Q205     | E-11     | Q546     | G-12     |
| D801     | D-20     | Q206     | I-4      | Q547     | G-12     |
| D802     | D-20     | Q207     | I-4      | Q548     | B-27     |
| D805     | D-20     | Q301     | G-8      | Q549     | G-27     |
| D806     | D-19     | Q302     | I-10     | Q551     | G-12     |
| D809     | H-19     | Q303     | I-10     | Q552     | H-15     |
| D811     | G-21     | Q304     | H-10     | Q554     | I-15     |
| D812     | G-21     | Q305     | H-10     | Q556     | I-16     |
| D813     | G-22     | Q306     | I-9      | Q558     | I-12     |
| D815     | H-21     | Q307     | B-14     | Q559     | G-15     |
| D819     | J-21     | Q308     | D-13     | Q560     | G-14     |
| D820     | J-20     | Q309     | D-13     | Q561     | G-14     |
| D821     | H-23     | Q310     | C-13     | Q562     | H-13     |
| D822     | J-20     | Q311     | C-13     | Q564     | G-14     |
| D825     | I-19     | Q312     | B-13     | Q565     | F-16     |
| D901     | D-2      | Q313     | B-15     | Q566     | F-15     |
| D902     | D-2      | Q318     | D-15     | Q567     | H-13     |
| D903     | D-2      | Q501     | H-13     |          |          |

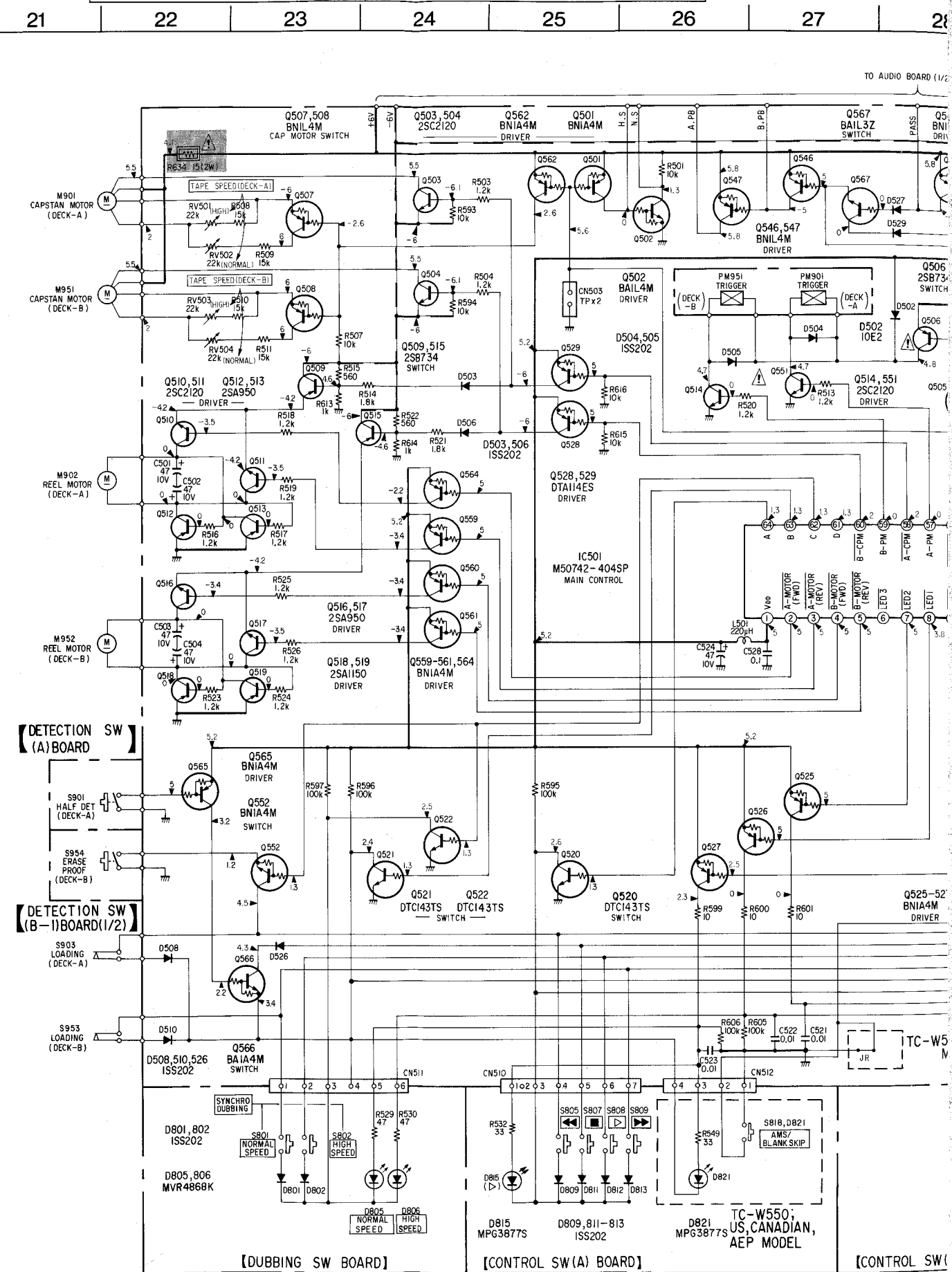
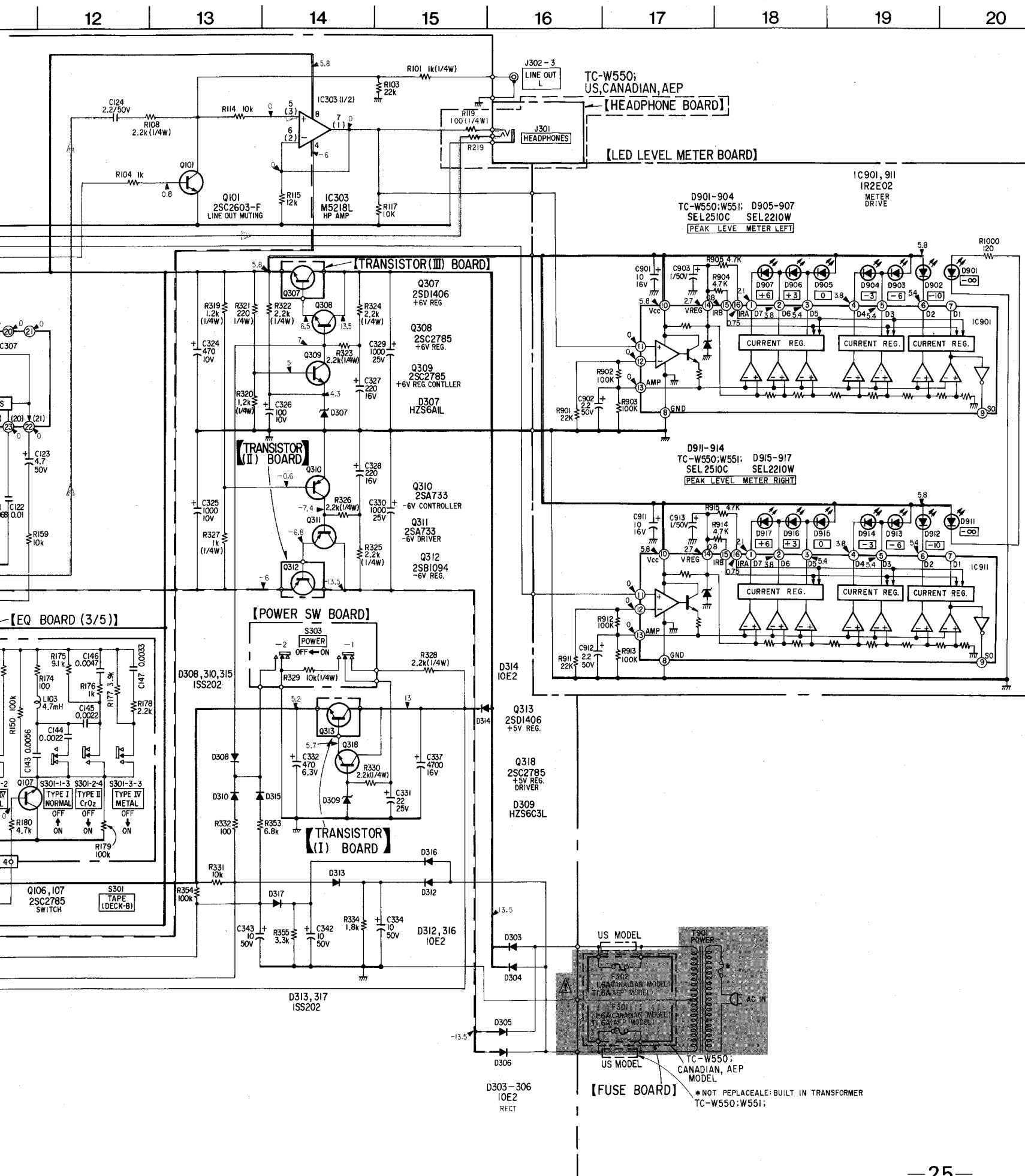
TC-W550/W551

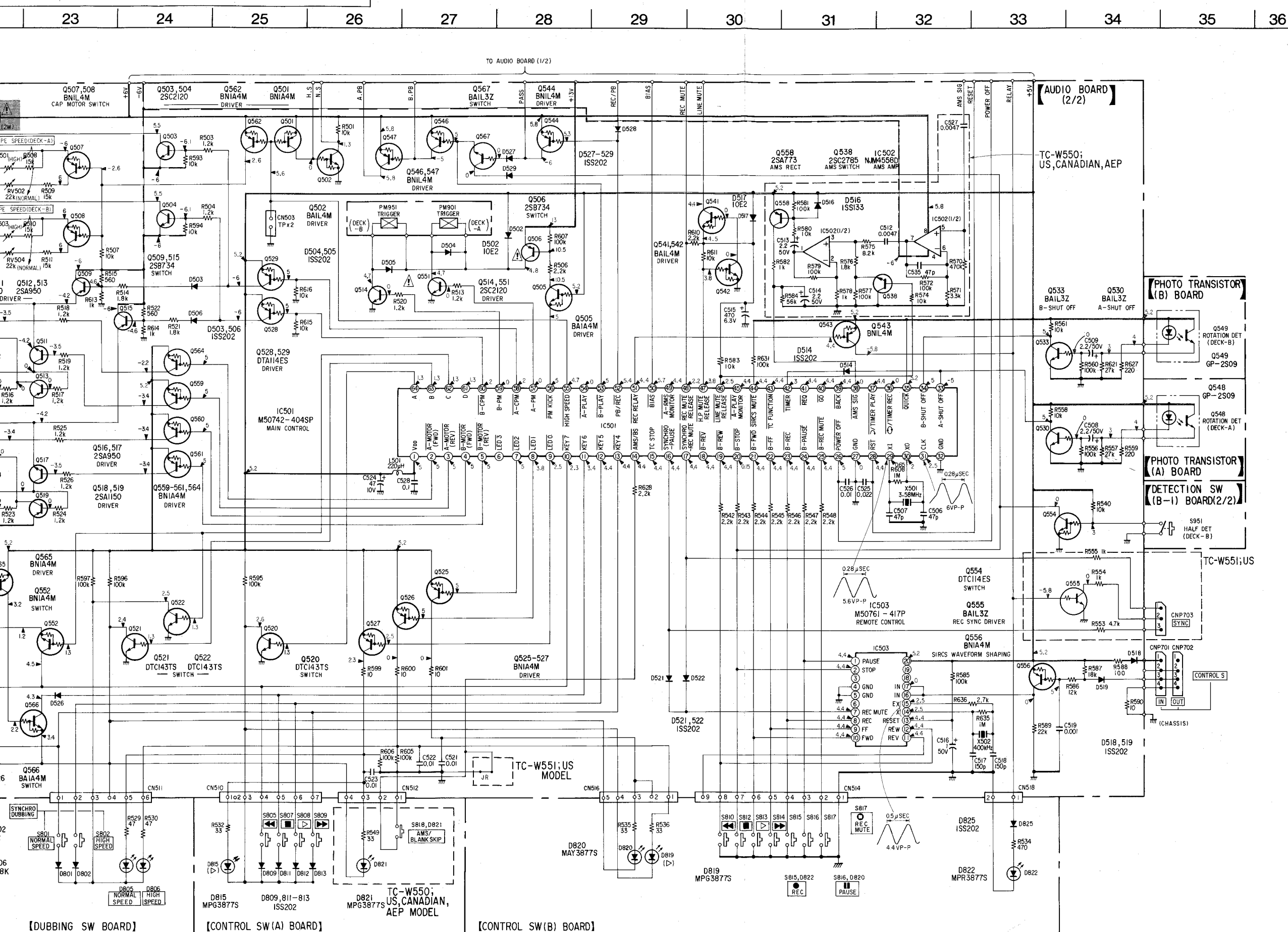
TC-W550/W551











SECTION 6  
EXPLODED VIEWS AND PARTS LIST

Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{6}W$  or less unless otherwise specified.
- $\Delta$  : internal component.
- $\square$  : nonflammable resistor.
- $\square$  : fusible resistor.
- $\text{---}$  : B+ bus.
- $\text{---}$  : B- bus.
- $\square$  : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 k $\Omega$ /V).
- ( ) : REC
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no-signal mode by using oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Switches

| Ref. No. | Switch                          | Position |
|----------|---------------------------------|----------|
| S301     | TAPE SELECT (DECK-B)            | NORMAL   |
| S302-1   | DOLBY NR B-TYPE/C-TYPE          | B-TYPE   |
| S302-2   | DOLBY NR ON/OFF                 | OFF      |
| S303     | POWER                           | ON       |
| S801     | SYNCHRO DUBBING<br>NORMAL SPEED | OFF      |
| S802     | SYNCHRO DUBBING<br>HIGH SPEED   | OFF      |
| S805     | ◀ DECK-A                        | OFF      |
| S807     | ■ DECK-A                        | OFF      |
| S808     | ▶ DECK-A                        | OFF      |
| S809     | ▶▶ DECK-A                       | OFF      |
| S810     | ◀◀ DECK-B                       | OFF      |
| S812     | ■ DECK-B                        | OFF      |
| S813     | ▶ DECK-B                        | OFF      |
| S814     | ▶▶ DECK-B                       | OFF      |
| S815     | ● DECK-B                        | OFF      |
| S816     | ■ DECK-B                        | OFF      |
| S817     | ○ DECK-B                        | OFF      |
| S818     | DECK-A AMS: TC-W550             | OFF      |
| S901     | DECK-A (HALF DET)               | OFF      |
| S902     | DECK-A (TAPE SELECT)            | NORMAL   |
| S903     | DECK-A (LOADING)                | OFF      |
| S951     | DECK-B (HALF DET)               | OFF      |
| S953     | DECK-B (ERASE PROOF)            | OFF      |
| S954     | DECK-B (LOADING)                | OFF      |

Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

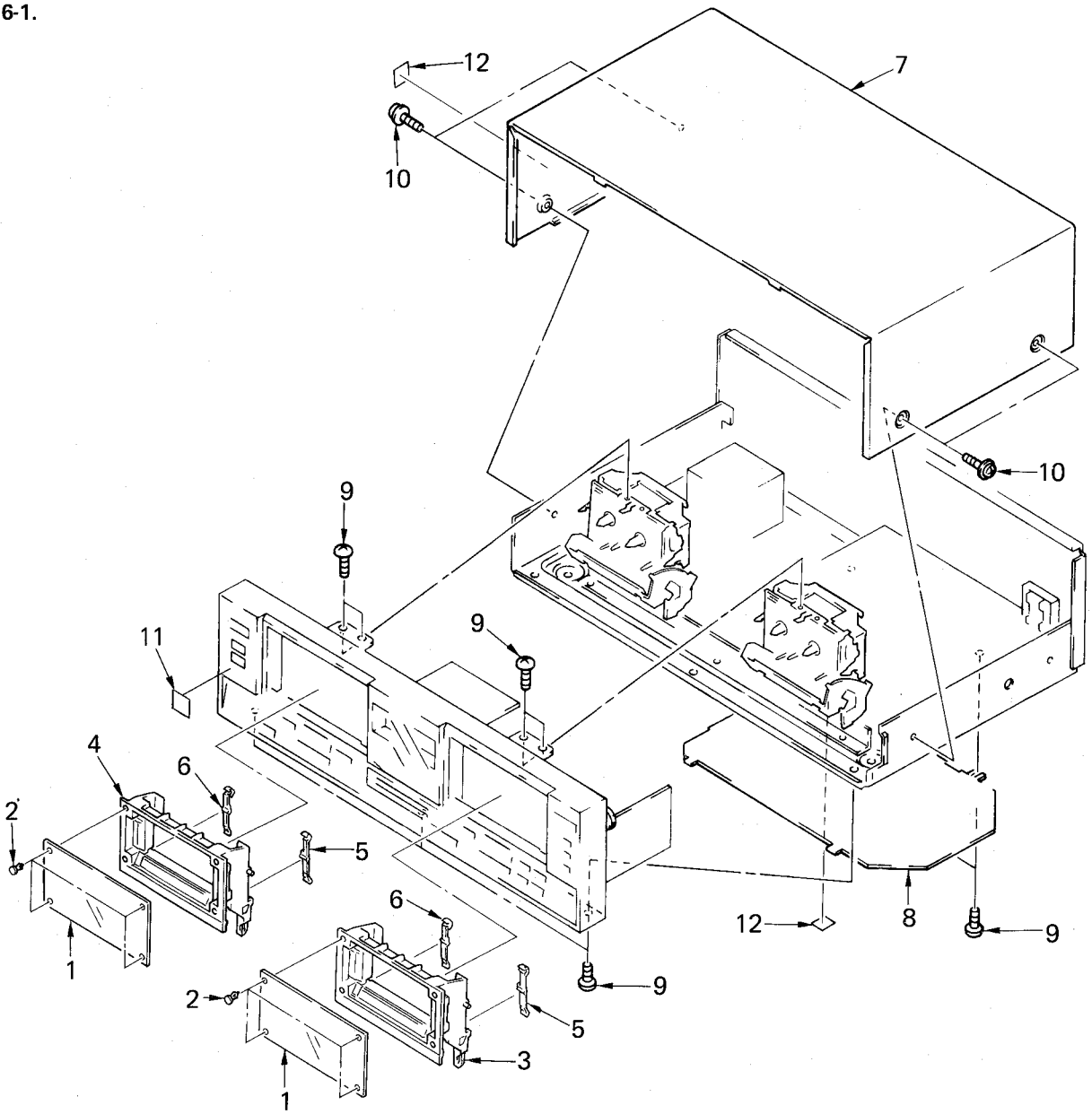
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

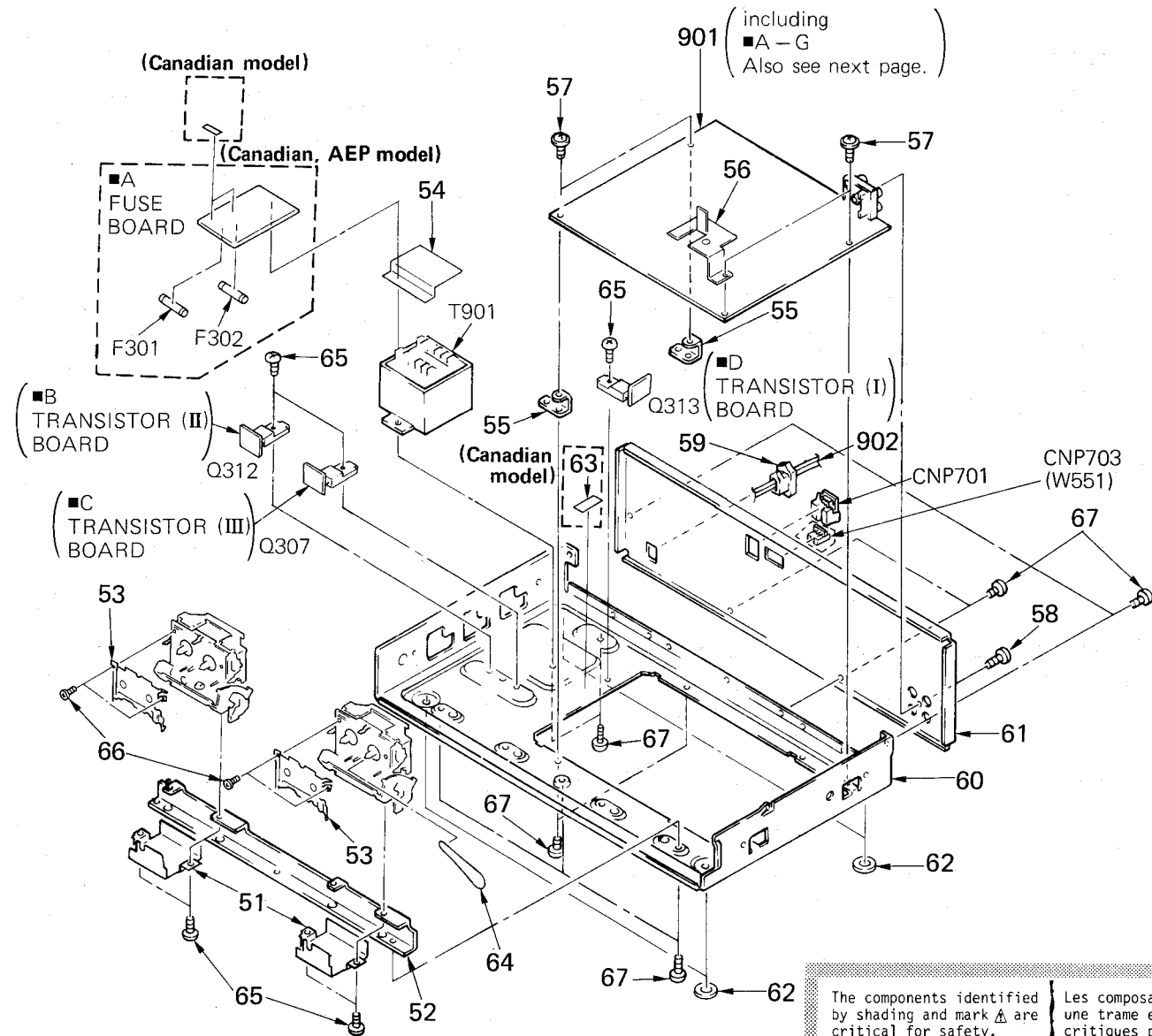
Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1.



| No. | Part No.      | Description                   | Remarks | No. | Part No.      | Description                 | Remarks |
|-----|---------------|-------------------------------|---------|-----|---------------|-----------------------------|---------|
| 1   | 3-332-470-01  | WINDOW, CASSETTE              |         | 7   | 3-332-427-01  | CASE                        |         |
| 2   | *3-337-123-01 | PIN, STOPPER, CASSETTE WINDOW |         | 8   | *3-332-418-01 | PLATE, BOTTOM               |         |
| 3   | X-3332-430-1  | HOLDER (B) ASSY, CASSETTE     |         | 9   | 7-685-871-01  | SCREW +BVTT 3X6 (S)         |         |
| 4   | X-3332-429-1  | HOLDER (A) ASSY, CASSETTE     |         | 10  | 4-886-821-01  | SCREW, M3 CASE              |         |
| 5   | 3-307-372-00  | SPRING (RIGHT)                |         | 11  | 3-703-713-41  | STICKER, SONY SYMBOL (10)   |         |
| 6   | 3-307-371-00  | SPRING (LEFT)                 |         | 12  | 3-703-680-00  | LABEL, CAUTION, SUB, NEW UL |         |

6-2.



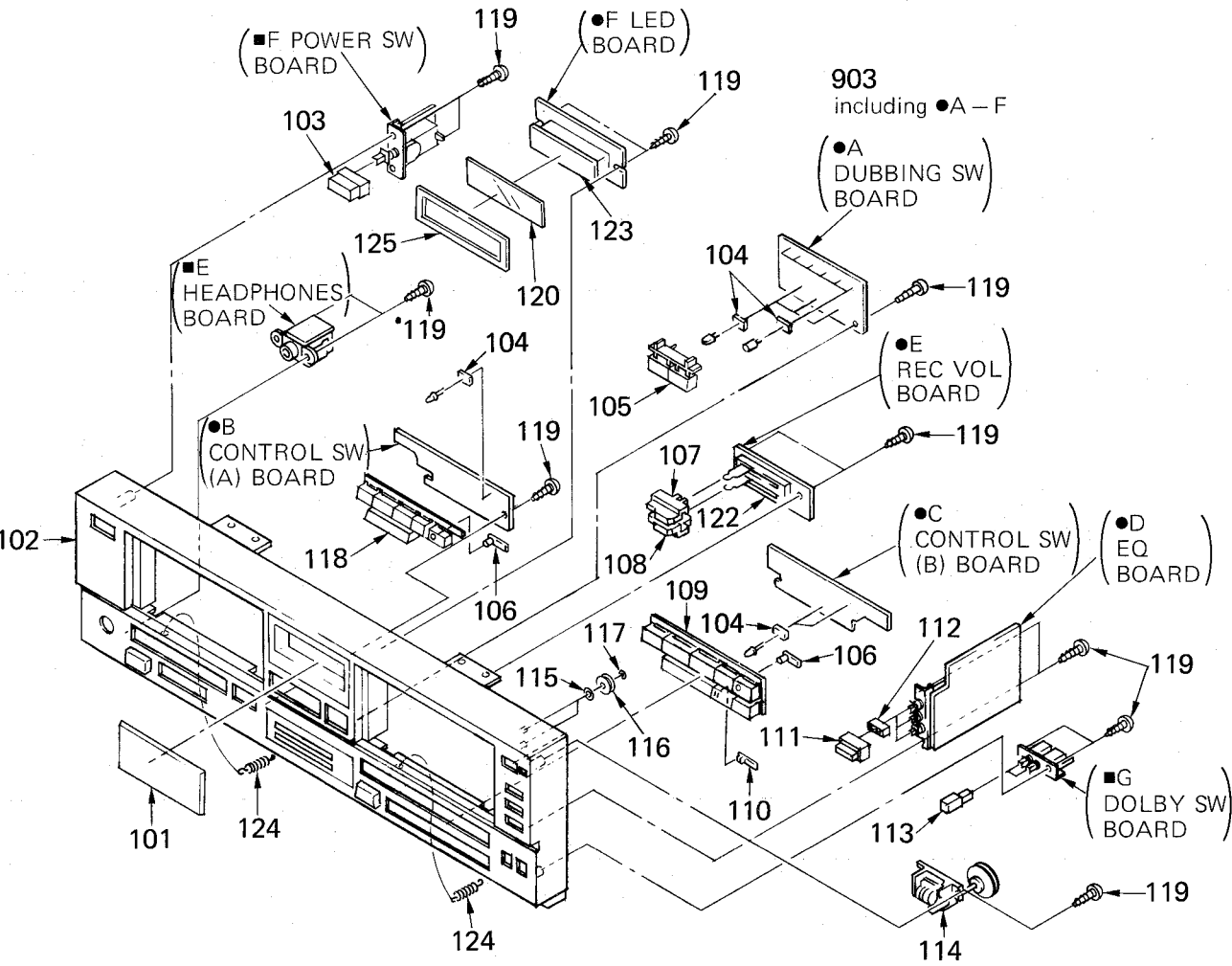
The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

| No. | Part No.      | Description                                | Remarks |
|-----|---------------|--------------------------------------------|---------|
| 51  | *4-919-325-11 | PLATE, SHIELD, HEAD                        |         |
| 52  | *3-332-421-01 | BRACKET, MD                                |         |
| 53  | *3-332-547-01 | PLATE, ORNAMENTAL                          |         |
| 54  | *3-337-136-01 | COVER, TRANSFORMER SAFETY                  |         |
| 55  | *3-332-410-01 | BRACKET (2), PC BOARD                      |         |
| 56  | *3-332-496-01 | PLATE, SHIELD                              |         |
| 57  | 7-687-511-31  | SCREW, TOTSU PTTWH 3X8                     |         |
| 58  | 7-685-646-79  | SCREW +BVTP 3X8 TYPE2 N-S                  |         |
| 59  | 3-703-244-02  | (W550:Canadian,AEP)...BUSHING (2104), CORD |         |
|     | 3-703-571-00  | (W550:US,W551)...BUSHING (S) (4516), CORD  |         |
| 60  | *3-332-426-01 | CHASSIS                                    |         |
| 61  | *3-332-466-01 | (W550:US,Canadian,W551)...PLATE, JACK      |         |
|     | *3-332-466-11 | (W550:AEP)...PLATE, JACK                   |         |
| 62  | 3-576-731-00  | FELT (H)                                   |         |
| 63  | 3-703-044-26  | (W550:Canadian)...LABEL, CAUTION           |         |
| 64  | 3-530-181-XX  | BELT, DETCTING                             |         |
| 65  | 7-685-871-01  | SCREW +BVTT 3X6 (S)                        |         |

| No.    | Part No.              | Description                                     | Remarks |
|--------|-----------------------|-------------------------------------------------|---------|
| 66     | 7-621-255-10          | SCREW +B 2X3                                    |         |
| 67     | 7-685-752-04          | SCREW +BVTT 3X8 (S)                             |         |
| 901    | *A-2056-359-A         | MOUNTED PCB, AUDIO                              |         |
| 902    | $\Delta$ 1-534-817-XX | (W550:AEP)...CORD, POWER, EULO PLUG             |         |
|        | $\Delta$ 1-551-510-12 | (W550:Canadian)...CORD, POWER                   |         |
|        | $\Delta$ 1-551-628-00 | (W550:US,W551)...CORD, POWER                    |         |
| CNP701 | *1-559-135-11         | CORD (WITH CONNECTOR)                           |         |
| CNP703 | 1-558-917-21          | (W551)...CORD (WITH CONNECTOR)(SIRCS)4P         |         |
| F301   | $\Delta$ 1-532-259-11 | (W550:AEP)...FUSE, TIME-LAG, T1.6A              |         |
|        | $\Delta$ 1-532-555-11 | (W550:Canadian)...FUSE, GLASS TUBE, 1.6A NORMAL |         |
| F302   | $\Delta$ 1-532-259-11 | (W550:AEP)...FUSE, TIME-LAG, T1.6A              |         |
|        | $\Delta$ 1-532-555-11 | (W550:Canadian)...FUSE, GLASS TUBE, 1.6A NORMAL |         |
| T901   | $\Delta$ 1-448-376-11 | (W550:US,Canadian,W551)...TRANSFORMER, POWER    |         |
|        | $\Delta$ 1-448-377-11 | (W550:AEP)...TRANSFORMER, POWER                 |         |

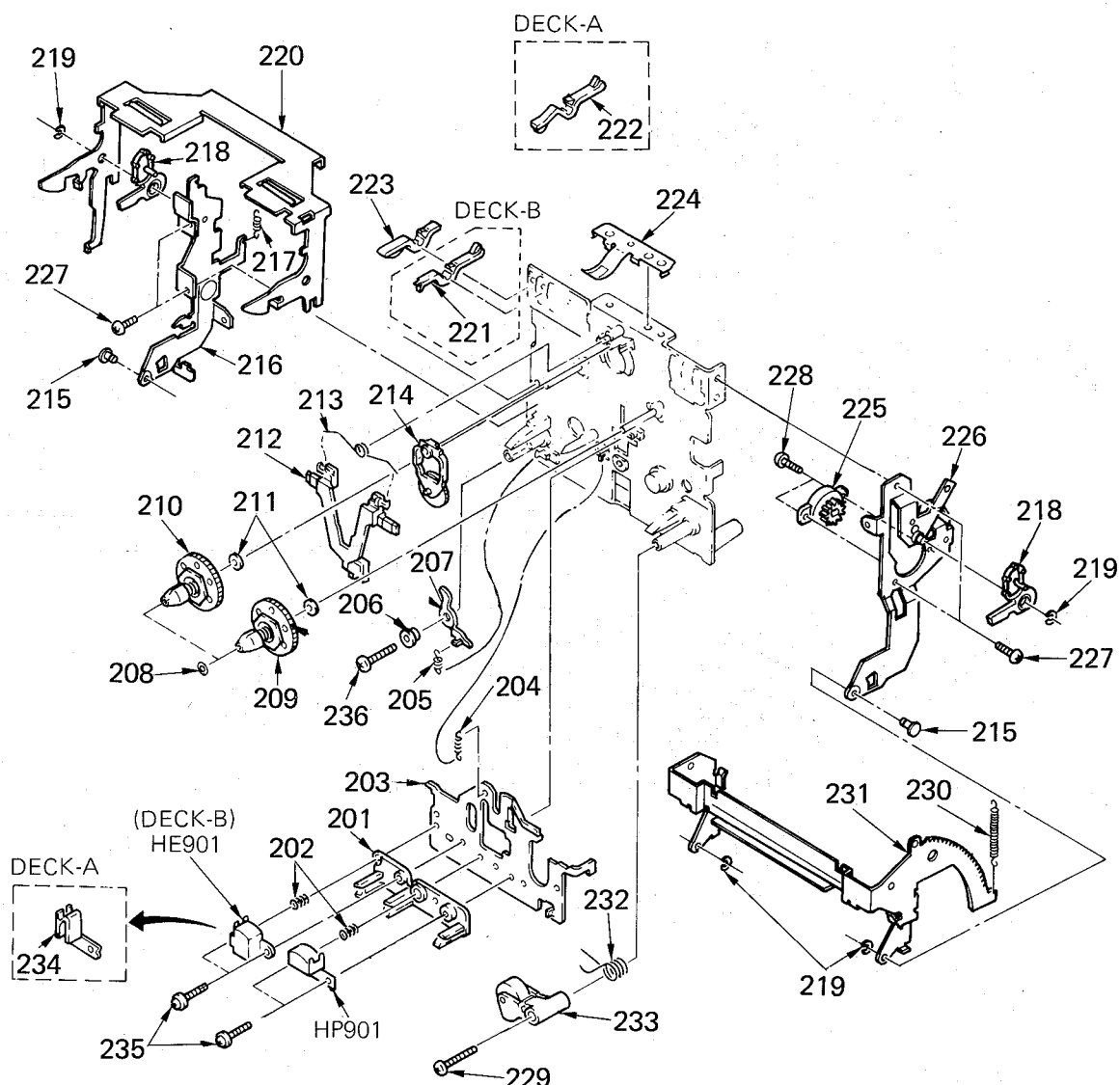
6-3.



| No. | Part No.      | Description                              | Remarks |
|-----|---------------|------------------------------------------|---------|
| 101 | 3-332-469-21  | WINDOW, METER                            |         |
| 102 | X-3332-431-1  | (W550:US,Canadian).....PANEL ASSY, FRONT |         |
|     | X-3332-432-1  | (W550:AEP).....PANEL ASSY, FRONT         |         |
|     | X-3332-461-1  | (W551).....PANEL ASSY, FRONT             |         |
| 103 | 4-917-460-01  | KNOB, POWER                              |         |
| 104 | *4-901-657-00 | SPACER (A), LED                          |         |
| 105 | X-3332-428-1  | BUTTON ASSY, DUBBING                     |         |
| 106 | 3-332-412-01  | WINDOW, REC                              |         |
| 107 | 3-323-446-01  | KNOB (LEFT), CONTROL                     |         |
| 108 | 3-323-447-01  | KNOB (RIGHT), CONTROL                    |         |
| 109 | X-3332-427-1  | BUTTON (B) ASSY, CONTROL                 |         |
| 110 | *3-332-411-01 | WINDOW, PAUSE                            |         |
| 111 | 3-318-909-11  | KNOB, PUSH                               |         |
| 112 | 4-864-307-00  | RING                                     |         |

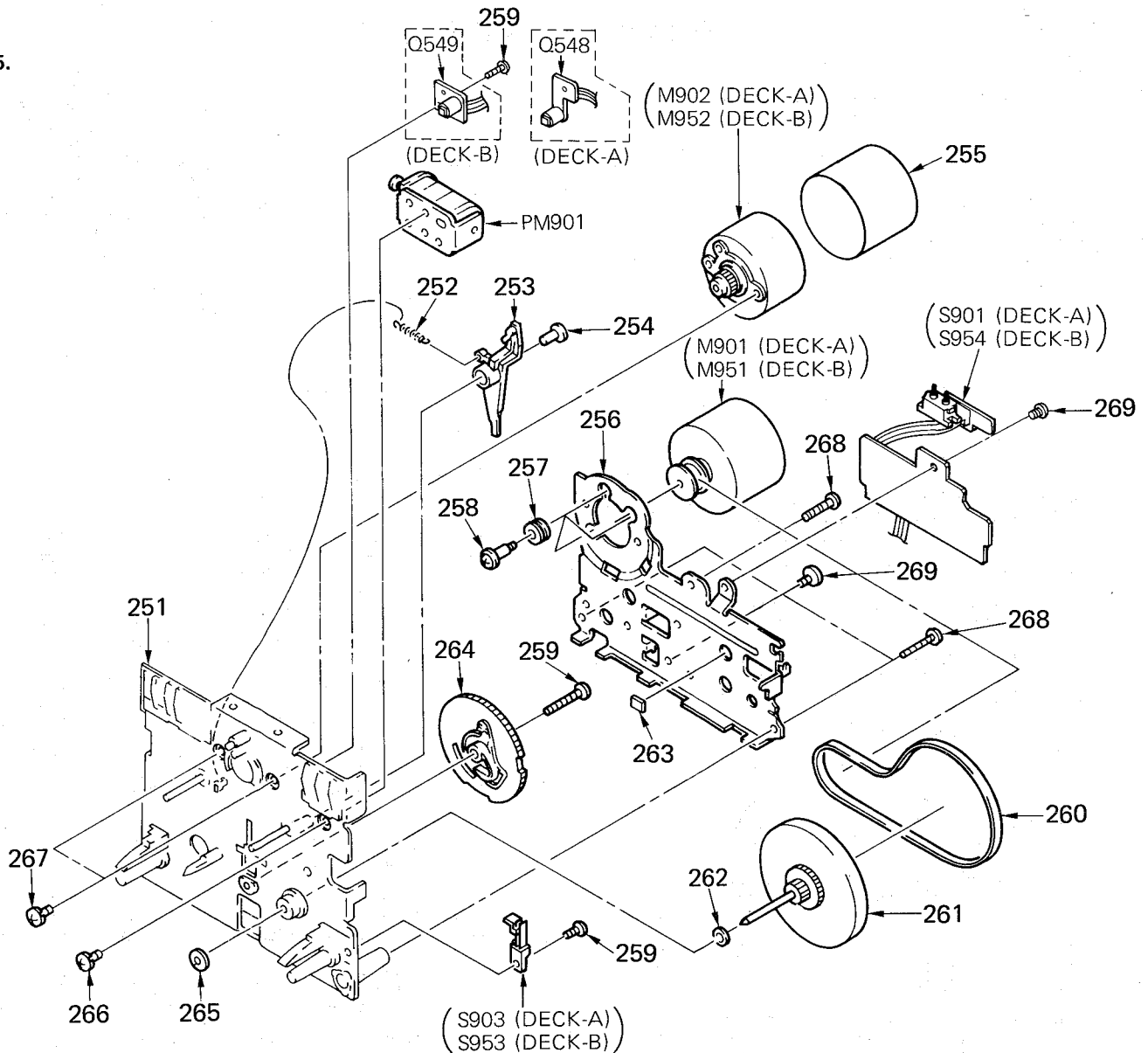
| No. | Part No.      | Description                 | Remarks |
|-----|---------------|-----------------------------|---------|
| 113 | 4-855-804-11  | KNOB, SQUARE                |         |
| 114 | 1-548-596-11  | COUNTER, TAPE (MIDDLE TYPE) |         |
| 115 | 3-701-437-11  | WASHER                      |         |
| 116 | 3-549-452-00  | PULLEY, SHUT-OFF            |         |
| 117 | 3-558-708-11  | WASHER, STOPPER             |         |
| 118 | X-3332-426-1  | BUTTON (A) ASSY, CONTROL    |         |
| 119 | 7-685-646-79  | SCREW +BVTP 3X8 TYPE2 N-S   |         |
| 120 | *3-332-463-01 | PLATE, ORNAMENTAL, LED      |         |
| 122 | *3-332-402-01 | PLATE (A), SHIELD           |         |
| 123 | *3-332-551-01 | HOLDER, LED                 |         |
| 124 | 4-885-182-11  | SPRING, TENSION             |         |
| 125 | 3-332-449-01  | CUSHION, DISPLAY            |         |
| 903 | *1-621-849-11 | PC BOARD, ETC               |         |

6-4.



| No. | Part No.      | Description               | Remarks | No.    | Part No.      | Description                         | Remarks |
|-----|---------------|---------------------------|---------|--------|---------------|-------------------------------------|---------|
| 201 | *3-391-102-01 | SPACER, HEAD              |         | 219    | 7-624-105-04  | STOP RING 2.3, TYPE -E              |         |
| 202 | 3-391-101-01  | SPRING                    |         | 220    | *3-391-180-01 | ARM, EJECT                          |         |
| 203 | *3-391-103-01 | BASE, HEAD                |         | 221    | 3-391-188-01  | (DECK-B)...LEVER, REC               |         |
| 204 | 3-391-114-01  | SPRING                    |         | 222    | *3-391-155-01 | (DECK-A)...LEVER, CHROME INSPECTION |         |
|     |               |                           |         | 223    | 3-391-178-01  | LEVER, PACK                         |         |
| 205 | 3-391-123-01  | SPRING (A)                |         | 224    | 3-391-177-01  | SPRING                              |         |
| 206 | 3-391-120-01  | CALLOR                    |         | 225    | X-3391-151-1  | DAMPER ASSY                         |         |
| 207 | 3-391-105-01  | ARM (B), EJECT SAFETY     |         | 226    | *X-3391-150-1 | BKT ASSY, DAMPER                    |         |
| 208 | 3-701-436-11  | WASHER, 1.6               |         | 227    | 7-685-790-04  | SCREW +PTT 2.6X4 (S)                |         |
| 209 | X-3391-106-1  | (DECK-B)...REEL ASSY      |         | 228    | 7-685-780-04  | SCREW +PTT 2X3 (S)                  |         |
|     | X-3391-107-1  | (DECK-A)...REEL ASSY, T.U |         | 229    | 7-685-107-19  | SCREW +P 2X12 TYPE2 SLIT            |         |
| 210 | X-3391-106-1  | (DECK-A)...REEL ASSY      |         | 230    | 3-391-184-01  | SPRING                              |         |
|     | X-3391-107-1  | (DECK-B)...REEL ASSY, T.U |         | 231    | *3-391-182-01 | HOLDER, CASSETTE                    |         |
| 211 | 3-701-437-11  | WASHER                    |         | 232    | 3-391-115-01  | SPRING (RIGHT)                      |         |
| 212 | X-3391-108-1  | BRAKE ASSY                |         | 233    | X-3391-104-1  | PINCH ROLLER ASSY                   |         |
| 213 | 3-391-124-01  | SPRING                    |         | 234    | 3-391-108-01  | (DECK-A)...GUIDE, TAPE              |         |
| 214 | X-3391-111-1  | IDLER ASSY                |         | 235    | 7-621-955-75  | SCREW,TOTSU PWH 2X12                |         |
| 215 | 3-391-183-01  | SHAFT (B), HOLDER FULCRUM |         | 236    | 7-685-105-19  | SCREW +P 2X8 TYPE2 SLIT             |         |
| 216 | *X-3391-152-1 | ARM ASSY, EJECT           |         | HE901  | 1-543-375-11  | (DECK-B)...HEAD, ERASE (EF-701-36)  |         |
| 217 | 3-391-181-01  | SP, LEVER RETURN          |         | HP901  | 1-543-374-11  | HEAD, REC-PB (PP-702-3602)          |         |
| 218 | 3-391-185-01  | LEVER, STOP               |         | HRP901 | 1-543-374-11  | HEAD, REC-PB (PP-702-3602)          |         |

6-5.



| No. | Part No.      | Description                   | Remarks |
|-----|---------------|-------------------------------|---------|
| 251 | *X-3391-101-1 | CHASSIS ASSY, MECHANICAL      |         |
| 252 | 3-391-133-01  | SPRING                        |         |
| 253 | X-3391-114-1  | ARM ASSY, PLAY                |         |
| 254 | 3-391-126-01  | CAP                           |         |
| 255 | 3-391-132-01  | PLATE, SHIELD                 |         |
| 256 | *3-391-130-01 | BRACKET (B), F/W              |         |
| 257 | 3-391-138-01  | MOTOR, CUSHION                |         |
| 258 | 3-391-147-01  | SCREW, MOTOR FITTING          |         |
| 259 | 7-685-104-19  | SCREW +P 2X6 TYPE2 SLIT       |         |
| 260 | 3-391-107-01  | BELT, MAIN                    |         |
| 261 | X-3391-149-1  | ASSY F/W                      |         |
| 262 | 3-701-438-11  | WASHER, 2.5                   |         |
| 263 | 3-391-129-01  | SPACER                        |         |
| 264 | 3-391-128-01  | GEAR (B), CAM                 |         |
| 265 | 3-391-119-01  | SEAL, WASHER OIL              |         |
| 266 | 7-628-253-90  | SCREW +PS 2.6X4               |         |
| 267 | 3-391-118-01  | SCREW, WASHER                 |         |
| 268 | 7-685-131-19  | SCREW +P 2.6X4 TYPE2 NON-SLIT |         |
| 269 | 7-685-750-04  | SCREW +PTT 3X5 (S)            |         |

| No.   | Part No.     | Description                       | Remarks |
|-------|--------------|-----------------------------------|---------|
| 951   | 1-589-079-11 | (DECK-B)...PC BOARD BLOCK         |         |
|       | 1-589-080-11 | (DECK-A)...PC BOARD BLOCK         |         |
| M901  | X-3391-117-1 | (DECK-A)...MOTOR ASSY, CAPSTAN    |         |
| M902  | X-3391-118-1 | (DECK-A)...MOTOR ASSY, REEL       |         |
| M951  | X-3391-117-1 | (DECK-B)...MOTOR ASSY, CAPSTAN    |         |
| M952  | X-3391-118-1 | (DECK-B)...MOTOR ASSY, REEL       |         |
| PM901 | 1-454-428-11 | SOLENOID, PLUNGER                 |         |
| Q548  | 1-807-509-11 | PHOTO SENSOR (GP-2S09)            |         |
| Q549  | 1-807-509-11 | PHOTO SENSOR (GP-2S09)            |         |
| S901  | 1-570-720-11 | SWITCH, PUSH (1 KEY)(HALF DET)    |         |
| S903  | 1-570-719-11 | SWITCH, LEAF (LOADING)            |         |
| S951  | 1-570-720-11 | SWITCH, PUSH (1 KEY)(HALFDET)     |         |
| S953  | 1-570-719-11 | SWITCH, LEAF (LOADING)            |         |
| S954  | 1-570-720-11 | SWITCH, PUSH (1 KEY)(ERASE PROOF) |         |

## SECTION 7 ELECTRICAL PARTS LIST

### NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:  
MF:  $\mu$ F, PF:  $\mu$ F.

RESISTORS  
All resistors are in ohms.  
F : nonflammable

COILS  
MMH : mH, UH :  $\mu$ H

SEMICONDUCTORS  
In each case, U :  $\mu$ , for example:  
UA...:  $\mu$ A..., UPA...:  $\mu$ PA..., UPC...:  $\mu$ PC,  
UPD...:  $\mu$ PD...

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

### ELECTRICAL PARTS

| Ref.No. | Part No.              | Description                         |
|---------|-----------------------|-------------------------------------|
| 901     | *A-2056-359-A         | MOUNTED PCB, AUDIO                  |
| 902     | $\Delta$ 1-534-817-XX | (W550-AEP)...CORD, POWER, EURO PLUG |
|         | $\Delta$ 1-551-510-12 | (W550-Canadian)...CORD, POWER       |
|         | $\Delta$ 1-551-628-00 | (W550-US, W551)...CORD, POWER       |
| 903     | *1-621-849-11         | PC BOARD, ETC                       |
| 951     | 1-589-079-11          | (DECK-B)...PC BOARD BLOCK           |
|         | 1-589-080-11          | (DECK-A)...PC BOARD BLOCK           |
| C101    | 1-124-927-11          | ELECT 4.7MF 20% 50V                 |
| C104    | 1-162-289-31          | CERAMIC 390PF 10% 50V               |
| C105    | 1-136-157-00          | FILM 0.022MF 5% 50V                 |
| C106    | 1-124-183-00          | ELECT 2.2MF 20% 50V                 |
| C107    | 1-110-203-00          | MYLAR 0.0047MF 5% 50V               |
| C108    | 1-161-327-00          | CERAMIC 0.0033MF 30% 16V            |
| C109    | 1-162-289-31          | CERAMIC 390PF 10% 50V               |
| C110    | 1-136-157-00          | FILM 0.022MF 5% 50V                 |
| C111    | 1-124-183-00          | ELECT 2.2MF 20% 50V                 |
| C112    | 1-161-377-00          | CERAMIC 0.0047MF 30% 16V            |
| C113    | 1-124-925-11          | ELECT 2.2MF 20% 50V                 |
| C114    | 1-110-203-00          | MYLAR 0.0047MF 5% 50V               |
| C115    | 1-136-173-00          | FILM 0.47MF 5% 50V                  |
| C116    | 1-136-167-00          | FILM 0.15MF 5% 50V                  |
| C117    | 1-136-155-00          | FILM 0.015MF 5% 50V                 |
| C118    | 1-136-169-00          | FILM 0.22MF 5% 50V                  |
| C119    | 1-136-163-00          | FILM 0.068MF 5% 50V                 |
| C120    | 1-136-161-00          | FILM 0.047MF 5% 50V                 |
| C121    | 1-130-481-00          | MYLAR 0.0068MF 5% 50V               |
| C122    | 1-136-153-00          | FILM 0.01MF 5% 50V                  |
| C123    | 1-124-927-11          | ELECT 4.7MF 20% 50V                 |
| C124    | 1-124-183-00          | ELECT 2.2MF 20% 50V                 |
| C125    | 1-124-927-11          | ELECT 4.7MF 20% 50V                 |
| C126    | 1-124-892-11          | ELECT 47MF 20% 10V                  |
| C127    | 1-136-159-00          | FILM 0.033MF 5% 50V                 |
| C128    | 1-162-284-31          | CERAMIC 150PF 10% 50V               |
| C129    | 1-136-273-91          | FILM 75PF 5% 630V                   |
| C130    | 1-136-440-11          | FILM 39PF 5% 630V                   |
| C134    | 1-124-907-00          | ELECT 10MF 20% 50V                  |
| C138    | 1-136-155-00          | FILM 0.015MF 5% 50V                 |
| C139    | 1-110-201-00          | MYLAR 0.0033MF 5% 50V               |
| C140    | 1-110-203-00          | MYLAR 0.0047MF 5% 50V               |
| C143    | 1-130-480-00          | MYLAR 0.0056MF 5% 50V               |
| C144    | 1-130-475-00          | MYLAR 0.0022MF 5% 50V               |
| C145    | 1-130-475-00          | MYLAR 0.0022MF 5% 50V               |
| C146    | 1-110-203-00          | MYLAR 0.0047MF 5% 50V               |

### ELECTRICAL PARTS

| Ref.No. | Part No.     | Description              |
|---------|--------------|--------------------------|
| C147    | 1-110-201-00 | MYLAR 0.0033MF 5% 50V    |
| C148    | 1-162-282-31 | CERAMIC 100PF 10% 50V    |
| C149    | 1-162-282-31 | CERAMIC 100PF 10% 50V    |
| C150    | 1-162-290-31 | CERAMIC 470PF 10% 50V    |
| C201    | 1-124-927-11 | ELECT 4.7MF 20% 50V      |
| C204    | 1-162-289-31 | CERAMIC 390PF 10% 50V    |
| C205    | 1-136-157-00 | FILM 0.022MF 5% 50V      |
| C206    | 1-124-183-00 | ELECT 2.2MF 20% 50V      |
| C207    | 1-110-203-00 | MYLAR 0.0047MF 5% 50V    |
| C208    | 1-161-327-00 | CERAMIC 0.0033MF 30% 16V |
| C209    | 1-162-289-31 | CERAMIC 390PF 10% 50V    |
| C210    | 1-136-157-00 | FILM 0.022MF 5% 50V      |
| C211    | 1-124-183-00 | ELECT 2.2MF 20% 50V      |
| C212    | 1-161-377-00 | CERAMIC 0.0047MF 30% 16V |
| C213    | 1-124-925-11 | ELECT 2.2MF 20% 50V      |
| C214    | 1-110-203-00 | MYLAR 0.0047MF 5% 50V    |
| C215    | 1-136-173-00 | FILM 0.47MF 5% 50V       |
| C216    | 1-136-167-00 | FILM 0.15MF 5% 50V       |
| C217    | 1-136-155-00 | FILM 0.015MF 5% 50V      |
| C218    | 1-136-169-00 | FILM 0.22MF 5% 50V       |
| C219    | 1-136-163-00 | FILM 0.068MF 5% 50V      |
| C220    | 1-136-161-00 | FILM 0.047MF 5% 50V      |
| C221    | 1-130-481-00 | MYLAR 0.0068MF 5% 50V    |
| C222    | 1-136-153-00 | FILM 0.01MF 5% 50V       |
| C223    | 1-124-927-11 | ELECT 4.7MF 20% 50V      |
| C224    | 1-124-183-00 | ELECT 2.2MF 20% 50V      |
| C225    | 1-124-927-11 | ELECT 4.7MF 20% 50V      |
| C226    | 1-124-892-11 | ELECT 47MF 20% 10V       |
| C227    | 1-136-159-00 | FILM 0.033MF 5% 50V      |
| C228    | 1-162-284-31 | CERAMIC 150PF 10% 50V    |
| C229    | 1-136-273-91 | FILM 75PF 5% 630V        |
| C230    | 1-136-440-11 | FILM 39PF 5% 630V        |
| C234    | 1-124-907-00 | ELECT 10MF 20% 50V       |
| C238    | 1-136-155-00 | FILM 0.015MF 5% 50V      |
| C239    | 1-110-201-00 | MYLAR 0.0033MF 5% 50V    |
| C240    | 1-110-203-00 | MYLAR 0.0047MF 5% 50V    |
| C243    | 1-130-480-00 | MYLAR 0.0056MF 5% 50V    |
| C244    | 1-130-475-00 | MYLAR 0.0022MF 5% 50V    |
| C245    | 1-130-475-00 | MYLAR 0.0022MF 5% 50V    |
| C246    | 1-110-203-00 | MYLAR 0.0047MF 5% 50V    |
| C247    | 1-110-201-00 | MYLAR 0.0033MF 5% 50V    |
| C248    | 1-162-282-31 | CERAMIC 100PF 10% 50V    |
| C249    | 1-162-282-31 | CERAMIC 100PF 10% 50V    |
| C250    | 1-162-290-31 | CERAMIC 470PF 10% 50V    |
| C305    | 1-124-444-00 | ELECT 220MF 20% 10V      |

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description                          |          |     |      |
|---------|--------------|--------------------------------------|----------|-----|------|
| C306    | 1-124-444-00 | ELECT                                | 220MF    | 20% | 10V  |
| C307    | 1-124-444-00 | ELECT                                | 220MF    | 20% | 10V  |
| C308    | 1-124-444-00 | ELECT                                | 220MF    | 20% | 10V  |
| C309    | 1-124-927-11 | ELECT                                | 4.7MF    | 20% | 50V  |
| C310    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C311    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C312    | 1-141-225-00 | CAP, TUNING, TRIMAR                  |          |     |      |
| C313    | 1-129-713-00 | FILM                                 | 0.0082MF | 10% | 630V |
| C314    | 1-124-925-11 | ELECT                                | 2.2MF    | 20% | 50V  |
| C315    | 1-130-285-00 | FILM                                 | 0.0033MF | 5%  | 100V |
| C316    | 1-130-285-00 | FILM                                 | 0.0033MF | 5%  | 100V |
| C317    | 1-130-285-00 | FILM                                 | 0.0033MF | 5%  | 100V |
| C318    | 1-124-791-11 | ELECT                                | 1MF      | 20% | 50V  |
| C319    | 1-124-927-11 | ELECT                                | 4.7MF    | 20% | 50V  |
| C320    | 1-124-791-11 | ELECT                                | 1MF      | 20% | 50V  |
| C321    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C322    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C324    | 1-124-472-11 | ELECT                                | 470MF    | 20% | 10V  |
| C325    | 1-124-473-11 | ELECT                                | 1000MF   | 20% | 10V  |
| C326    | 1-124-443-00 | ELECT                                | 100MF    | 20% | 10V  |
| C327    | 1-123-321-00 | ELECT                                | 220MF    | 20% | 16V  |
| C328    | 1-123-321-00 | ELECT                                | 220MF    | 20% | 16V  |
| C329    | 1-124-557-11 | ELECT                                | 1000MF   | 20% | 25V  |
| C330    | 1-124-557-11 | ELECT                                | 1000MF   | 20% | 25V  |
| C331    | 1-124-908-11 | ELECT                                | 22MF     | 20% | 25V  |
| C332    | 1-124-470-11 | ELECT                                | 470MF    | 20% | 6.3V |
| C334    | 1-124-907-00 | ELECT                                | 10MF     | 20% | 50V  |
| C337    | 1-124-898-11 | ELECT                                | 4700MF   | 20% | 16V  |
| C342    | 1-124-907-00 | ELECT                                | 10MF     | 20% | 50V  |
| C343    | 1-124-907-00 | ELECT                                | 10MF     | 20% | 50V  |
| C501    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C502    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C503    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C504    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C506    | 1-162-029-00 | CERAMIC                              | 47PF     | 5%  | 50V  |
| C507    | 1-162-029-00 | CERAMIC                              | 47PF     | 5%  | 50V  |
| C508    | 1-124-925-11 | ELECT                                | 2.2MF    | 20% | 50V  |
| C509    | 1-124-925-11 | ELECT                                | 2.2MF    | 20% | 50V  |
| C512    | 1-161-377-00 | (W550:US,Canadian,AEP)<br>...CERAMIC | 0.0047MF | 30% | 16V  |
| C513    | 1-124-925-11 | (W550:US,Canadian,AEP)<br>....ELECT  | 2.2MF    | 20% | 50V  |
| C514    | 1-124-925-11 | (W550:US,Canadian,AEP)<br>....ELECT  | 2.2MF    | 20% | 50V  |
| C515    | 1-124-470-11 | ELECT                                | 470MF    | 20% | 6.3V |
| C516    | 1-124-791-11 | ELECT                                | 1MF      | 20% | 50V  |
| C517    | 1-162-100-00 | CERAMIC                              | 150PF    | 10% | 50V  |
| C518    | 1-162-284-31 | CERAMIC                              | 150PF    | 10% | 50V  |
| C519    | 1-162-294-31 | CERAMIC                              | 0.001MF  | 10% | 50V  |
| C521    | 1-161-379-00 | CERAMIC                              | 0.01MF   | 30% | 16V  |
| C522    | 1-161-379-00 | CERAMIC                              | 0.01MF   | 30% | 16V  |
| C523    | 1-161-379-00 | CERAMIC                              | 0.01MF   | 30% | 16V  |
| C524    | 1-124-892-11 | ELECT                                | 47MF     | 20% | 10V  |
| C525    | 1-161-494-00 | CERAMIC                              | 0.022MF  | 30% | 25V  |
| C526    | 1-161-379-00 | CERAMIC                              | 0.01MF   | 30% | 16V  |
| C527    | 1-161-377-00 | (W550:US,Canadian,AEP)<br>...CERAMIC | 0.0047MF | 30% | 16V  |
| C528    | 1-161-063-00 | CERAMIC                              | 0.1MF    | 20% | 16V  |
| C535    | 1-162-215-31 | (W550:US,Canadian,AEP)<br>...CERAMIC | 47PF     | 5%  | 50V  |

## ELECTRICAL PARTS

| Ref.No. | Part No.      | Description                             |       |     |     |
|---------|---------------|-----------------------------------------|-------|-----|-----|
| C901    | 1-123-617-00  | ELECT                                   | 10MF  | 20% | 16V |
| C902    | 1-124-257-00  | ELECT                                   | 2.2MF | 20% | 50V |
| C903    | 1-123-611-00  | ELECT                                   | 1MF   | 20% | 50V |
| C911    | 1-123-617-00  | ELECT                                   | 10MF  | 20% | 16V |
| C912    | 1-124-257-00  | ELECT                                   | 2.2MF | 20% | 50V |
| C913    | 1-123-611-00  | ELECT                                   | 1MF   | 20% | 50V |
| CN301   | *1-564-506-11 | PLUG, CONNECTOR 3P                      |       |     |     |
| CN302   | *1-564-506-11 | PLUG, CONNECTOR 3P                      |       |     |     |
| CN303   | *1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P          |       |     |     |
| CN304   | *1-564-705-11 | PIN, CONNECTOR (SMALL TYPE) 3P          |       |     |     |
| CN305   | *1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P          |       |     |     |
| CN306   | *1-564-507-11 | PLUG, CONNECTOR 4P                      |       |     |     |
| CN308   | *1-564-506-11 | PLUG, CONNECTOR 3P                      |       |     |     |
| CN309   | *1-564-506-11 | PLUG, CONNECTOR 3P                      |       |     |     |
| CN310   | *1-564-508-11 | PLUG, CONNECTOR 5P                      |       |     |     |
| CN503   | *1-564-505-11 | PLUG, CONNECTOR 2P                      |       |     |     |
| CN510   | *1-564-341-11 | PIN, CONNECTOR 7P                       |       |     |     |
| CN511   | *1-564-509-11 | PLUG, CONNECTOR 6P                      |       |     |     |
| CN512   | *1-564-507-11 | PLUG, CONNECTOR 4P                      |       |     |     |
| CN514   | *1-564-512-41 | PLUG, CONNECTOR 9P                      |       |     |     |
| CN516   | *1-564-339-00 | PIN, CONNECTOR 5P                       |       |     |     |
| CN518   | *1-564-336-00 | PIN, CONNECTOR 2P                       |       |     |     |
| CNP701  | *1-559-135-11 | CORD (WITH CONNECTOR)                   |       |     |     |
| CNP703  | 1-558-233-11  | (W551)...CORD (WITH CONNECTOR)(SIRCS)4P |       |     |     |
| D301    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D302    | 8-719-107-94  | DIODE 1SS202-1                          |       |     |     |
| D303    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D304    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D305    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D306    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D307    | 8-719-933-33  | DIODE HZS6A1L                           |       |     |     |
| D308    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D309    | 8-719-910-65  | DIODE HZ6C2L                            |       |     |     |
| D310    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D312    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D313    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D314    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D315    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D316    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D317    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D502    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D503    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D504    | 8-719-107-94  | DIODE 1SS202-1                          |       |     |     |
| D505    | 8-719-107-94  | DIODE 1SS202-1                          |       |     |     |
| D506    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D508    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D510    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D514    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D516    | 8-719-940-76  | (W550:US,Canadian,AEP)...DIODE 1SS132   |       |     |     |
| D517    | 8-719-200-77  | DIODE 10E2N                             |       |     |     |
| D518    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D519    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D521    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D522    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D526    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D527    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |
| D528    | 8-719-940-76  | DIODE 1SS132                            |       |     |     |

# TC-W550/W551

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description                                         |
|---------|--------------|-----------------------------------------------------|
| D529    | 8-719-940-76 | DIODE 1SS132                                        |
| D801    | 8-719-940-76 | DIODE 1SS132                                        |
| D802    | 8-719-940-76 | DIODE 1SS132                                        |
| D805    | 8-719-942-12 | DIODE MVR4868K                                      |
| D806    | 8-719-942-12 | DIODE MVR4868K                                      |
| D809    | 8-719-940-76 | DIODE 1SS132                                        |
| D811    | 8-719-940-76 | DIODE 1SS132                                        |
| D812    | 8-719-940-76 | DIODE 1SS132                                        |
| D813    | 8-719-940-76 | DIODE 1SS132                                        |
| D815    | 8-719-942-15 | DIODE MPG3877S                                      |
| D819    | 8-719-942-15 | DIODE MPG3877S                                      |
| D820    | 8-719-942-14 | DIODE MAY3877S                                      |
| D821    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D822    | 8-719-942-17 | DIODE MPR3877S                                      |
| D825    | 8-719-940-76 | DIODE 1SS132                                        |
| D901    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D901    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D902    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D902    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D903    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D903    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D904    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D904    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D905    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| D906    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| D907    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| D911    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D911    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D912    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D912    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D913    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D913    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D914    | 8-719-942-15 | (W550:US,Canadian,AEP)...DIODE MPG3877S             |
| D914    | 8-719-303-00 | (W551)...DIODE SEL2510C                             |
| D915    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| D916    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| D917    | 8-719-302-74 | DIODE SEL2210W-C                                    |
| F301    | 1-532-259-11 | (W550:AEP)...FUSE, TIME-LAG, T1.6A                  |
| F301    | 1-532-555-11 | (W550:Canadian)<br>...FUSE, GLASS TUBE, 1.6A NORMAL |
| F302    | 1-532-259-11 | (W550:AEP)...FUSE, TIME-LAG, T1.6A                  |
| F302    | 1-532-555-11 | (W550:Canadian)<br>...FUSE, GLASS TUBE, 1.6A NORMAL |
| HE901   | 1-543-375-11 | (DECK-B)...HEAD, ERASE (EF-701-36)                  |
| HP901   | 1-543-374-11 | HEAD, REC-PB (PP-702-3602)                          |
| HRP901  | 1-543-374-11 | HEAD, REC-PB (PP-702-3602)                          |
| IC303   | 8-759-600-02 | IC M5218L                                           |
| IC304   | 8-759-601-43 | IC M4066BP                                          |
| IC305   | 8-759-111-44 | IC UPC4570C-1                                       |
| IC306   | 8-759-111-44 | IC UPC4570C-1                                       |
| IC307   | 8-752-018-70 | IC CX20187                                          |
| IC308   | 8-759-106-61 | IC UPC4570HA                                        |
| IC501   | 8-759-603-20 | IC M50742-404SP                                     |
| IC502   | 8-759-701-12 | (W550:US,Canadian,AEP)...IC CXA4559P                |
| IC503   | 8-759-602-47 | IC M50761-417P                                      |
| IC901   | 8-759-912-79 | IC IR2E02                                           |
| IC911   | 8-759-912-79 | IC IR2E02                                           |

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description                    |
|---------|--------------|--------------------------------|
| J301    | 1-507-982-11 | (W550)...JACK (LARGE TYPE)     |
| J302    | 1-507-908-11 | JACK, PIN 4P                   |
| L101    | 1-408-929-00 | MICRO INDUCTOR 27MMH           |
| L102    | 1-408-920-00 | MICRO INDUCTOR 4.7MMH          |
| L103    | 1-408-920-00 | MICRO INDUCTOR 4.7MMH          |
| L201    | 1-408-929-00 | MICRO INDUCTOR 27MMH           |
| L202    | 1-408-920-00 | MICRO INDUCTOR 4.7MMH          |
| L203    | 1-408-920-00 | MICRO INDUCTOR 4.7MMH          |
| L501    | 1-407-173-XX | MICRO INDUCTOR 220UH           |
| M901    | X-3391-117-1 | (DECK-A)...MOTOR ASSY, CAPSTAN |
| M902    | X-3391-118-1 | (DECK-A)...MOTOR ASSY, REEL    |
| M951    | X-3391-117-1 | (DECK-B)...MOTOR ASSY, CAPSTAN |
| M952    | X-3391-118-1 | (DECK-B)...MOTOR ASSY, REEL    |
| PM901   | 1-454-428-11 | SOLENOID, PLUNGER              |
| LPF101  | 1-231-388-00 | FILTER, LOW PASS               |
| LPF201  | 1-231-388-00 | FILTER, LOW PASS               |
| Q101    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q103    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q104    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q105    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q106    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q107    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q201    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q203    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q204    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q205    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q206    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q207    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q301    | 8-729-806-26 | TRANSISTOR 2SC3901             |
| Q302    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q303    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q304    | 8-729-101-35 | TRANSISTOR 2SC2785-E           |
| Q305    | 9-986-159-01 | TRANSISTOR 2SA1348             |
| Q306    | 8-729-101-35 | TRANSISTOR 2SC2785-E           |
| Q307    | 8-729-201-78 | TRANSISTOR 2SD1406             |
| Q308    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q309    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q310    | 8-729-117-54 | TRANSISTOR 2SA1175             |
| Q311    | 8-729-117-54 | TRANSISTOR 2SA1175             |
| Q312    | 8-729-111-67 | TRANSISTOR 2SB1094-L           |
| Q313    | 8-729-201-78 | TRANSISTOR 2SD1406             |
| Q318    | 8-729-600-27 | TRANSISTOR 2SC634SP            |
| Q501    | 8-729-806-20 | TRANSISTOR 2SA1345             |
| Q502    | 8-729-806-38 | TRANSISTOR 2SC3399             |
| Q503    | 8-729-802-34 | TRANSISTOR 2SD1388             |
| Q504    | 8-729-802-34 | TRANSISTOR 2SD1388             |
| Q505    | 8-729-806-28 | TRANSISTOR 2SC3402             |
| Q506    | 8-729-103-43 | TRANSISTOR 2SB734              |
| Q507    | 8-729-806-20 | TRANSISTOR 2SA1345             |
| Q508    | 8-729-806-20 | TRANSISTOR 2SA1345             |
| Q509    | 8-729-103-43 | TRANSISTOR 2SB734              |
| Q510    | 8-729-802-34 | TRANSISTOR 2SD1388             |
| Q511    | 8-729-802-34 | TRANSISTOR 2SD1388             |
| Q512    | 8-729-802-22 | TRANSISTOR 2SB1014             |
| Q513    | 8-729-802-22 | TRANSISTOR 2SB1014             |
| Q514    | 8-729-212-02 | TRANSISTOR 2SC2120-Y           |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description                                        |      |    |      |  |
|---------|--------------|----------------------------------------------------|------|----|------|--|
| Q515    | 8-729-103-43 | TRANSISTOR 2SB734                                  |      |    |      |  |
| Q516    | 8-729-802-34 | TRANSISTOR 2SD1388                                 |      |    |      |  |
| Q517    | 8-729-802-34 | TRANSISTOR 2SD1388                                 |      |    |      |  |
| Q518    | 8-729-802-22 | TRANSISTOR 2SB1014                                 |      |    |      |  |
| Q519    | 8-729-802-22 | TRANSISTOR 2SB1014                                 |      |    |      |  |
| Q520    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| Q521    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| Q522    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| Q525    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q526    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q527    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q528    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q529    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q530    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| Q533    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| Q538    | 8-729-600-27 | (W550:US,Canadian,AEP)<br>.....TRANSISTOR 2SC634SP |      |    |      |  |
| Q541    | 8-729-806-20 | TRANSISTOR 2SA1345                                 |      |    |      |  |
| Q542    | 8-729-806-38 | TRANSISTOR 2SC3399                                 |      |    |      |  |
| Q543    | 8-729-806-20 | TRANSISTOR 2SA1345                                 |      |    |      |  |
| Q544    | 8-729-806-20 | TRANSISTOR 2SA1345                                 |      |    |      |  |
| Q546    | 8-729-806-20 | TRANSISTOR 2SA1345                                 |      |    |      |  |
| Q547    | 8-729-806-20 | TRANSISTOR 2SA1345                                 |      |    |      |  |
| Q548    | 1-807-509-11 | PHOTO SENSOR (GP-2S09)                             |      |    |      |  |
| Q549    | 1-807-509-11 | PHOTO SENSOR (GP-2S09)                             |      |    |      |  |
| Q551    | 8-729-212-02 | TRANSISTOR 2SC2120-Y                               |      |    |      |  |
| Q552    | 8-729-806-28 | TRANSISTOR 2SC3402                                 |      |    |      |  |
| Q554    | 8-729-806-28 | TRANSISTOR 2SC3402                                 |      |    |      |  |
| Q555    | 8-729-806-26 | (W551:US)...TRANSISTOR 2SC3901                     |      |    |      |  |
| Q556    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q558    | 8-729-117-54 | (W550:US,Canadian,AEP)<br>...TRANSISTOR 2SA1175    |      |    |      |  |
| Q559    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q560    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q561    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q562    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q564    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q565    | 9-986-159-01 | TRANSISTOR 2SA1348                                 |      |    |      |  |
| Q566    | 8-729-806-28 | TRANSISTOR 2SC3402                                 |      |    |      |  |
| Q567    | 8-729-806-26 | TRANSISTOR 2SC3901                                 |      |    |      |  |
| R101    | 1-247-713-11 | CARBON                                             | 1K   | 5% | 1/4W |  |
| R102    | 1-247-726-11 | CARBON                                             | 33K  | 5% | 1/4W |  |
| R103    | 1-249-433-11 | CARBON                                             | 22K  | 5% | 1/6W |  |
| R104    | 1-249-417-11 | CARBON                                             | 1K   | 5% | 1/6W |  |
| R108    | 1-247-717-11 | CARBON                                             | 2.2K | 5% | 1/4W |  |
| R114    | 1-249-429-11 | CARBON                                             | 10K  | 5% | 1/6W |  |
| R115    | 1-249-430-11 | CARBON                                             | 12K  | 5% | 1/6W |  |
| R117    | 1-249-429-11 | CARBON                                             | 10K  | 5% | 1/6W |  |
| R118    | 1-249-434-11 | CARBON                                             | 27K  | 5% | 1/6W |  |
| R119    | 1-247-700-11 | (W550,US,Canadian,AEP)<br>...CARBON                | 100  | 5% | 1/4W |  |
| R126    | 1-246-523-00 | CARBON                                             | 120K | 5% | 1/4W |  |
| R127    | 1-247-700-11 | CARBON                                             | 100  | 5% | 1/4W |  |
| R128    | 1-246-524-00 | CARBON                                             | 130K | 5% | 1/4W |  |
| R129    | 1-247-722-11 | CARBON                                             | 5.6K | 5% | 1/4W |  |
| R130    | 1-249-430-11 | CARBON                                             | 12K  | 5% | 1/6W |  |
| R131    | 1-249-431-11 | CARBON                                             | 15K  | 5% | 1/6W |  |
| R132    | 1-215-477-00 | CARBON                                             | 220K | 5% | 1/6W |  |
| R133    | 1-249-423-11 | CARBON                                             | 3.3K | 5% | 1/6W |  |

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description                         |      |    |      |  |
|---------|--------------|-------------------------------------|------|----|------|--|
| R135    | 1-215-477-00 | CARBON                              | 220K | 5% | 1/6W |  |
| R136    | 1-249-427-11 | CARBON                              | 6.8K | 5% | 1/6W |  |
| R137    | 1-249-417-11 | CARBON                              | 1K   | 5% | 1/6W |  |
| R138    | 1-249-425-11 | CARBON                              | 4.7K | 5% | 1/6W |  |
| R140    | 1-246-531-00 | CARBON                              | 270K | 5% | 1/4W |  |
| R141    | 1-247-700-11 | CARBON                              | 100  | 5% | 1/4W |  |
| R142    | 1-246-524-00 | CARBON                              | 130K | 5% | 1/4W |  |
| R143    | 1-247-722-11 | CARBON                              | 5.6K | 5% | 1/4W |  |
| R144    | 1-249-430-11 | CARBON                              | 12K  | 5% | 1/6W |  |
| R145    | 1-215-477-00 | CARBON                              | 220K | 5% | 1/6W |  |
| R146    | 1-249-431-11 | CARBON                              | 15K  | 5% | 1/6W |  |
| R149    | 1-249-441-11 | CARBON                              | 100K | 5% | 1/6W |  |
| R150    | 1-249-441-11 | CARBON                              | 100K | 5% | 1/6W |  |
| R152    | 1-249-423-11 | CARBON                              | 3.3K | 5% | 1/6W |  |
| R153    | 1-249-427-11 | CARBON                              | 6.8K | 5% | 1/6W |  |
| R154    | 1-247-822-00 | CARBON                              | 430  | 5% | 1/6W |  |
| R155    | 1-215-436-00 | CARBON                              | 4.3K | 5% | 1/6W |  |
| R156    | 1-247-840-00 | CARBON                              | 2.4K | 5% | 1/6W |  |
| R157    | 1-249-427-11 | CARBON                              | 6.8K | 5% | 1/6W |  |
| R158    | 1-249-415-11 | CARBON                              | 680  | 5% | 1/6W |  |
| R159    | 1-249-429-11 | CARBON                              | 10K  | 5% | 1/6W |  |
| R161    | 1-249-421-11 | CARBON                              | 2.2K | 5% | 1/6W |  |
| R162    | 1-249-429-11 | CARBON                              | 10K  | 5% | 1/6W |  |
| R163    | 1-249-417-11 | CARBON                              | 1K   | 5% | 1/6W |  |
| R164    | 1-249-441-11 | CARBON                              | 100K | 5% | 1/6W |  |
| R165    | 1-249-421-11 | CARBON                              | 2.2K | 5% | 1/6W |  |
| R166    | 1-215-477-00 | CARBON                              | 220K | 5% | 1/6W |  |
| R167    | 1-249-435-11 | CARBON                              | 33K  | 5% | 1/6W |  |
| R168    | 1-249-437-11 | CARBON                              | 47K  | 5% | 1/6W |  |
| R169    | 1-249-401-11 | CARBON                              | 47   | 5% | 1/6W |  |
| R170    | 1-249-429-11 | CARBON                              | 10K  | 5% | 1/6W |  |
| R172    | 1-215-436-00 | CARBON                              | 4.3K | 5% | 1/6W |  |
| R174    | 1-249-405-11 | CARBON                              | 100  | 5% | 1/6W |  |
| R175    | 1-247-854-00 | CARBON                              | 9.1K | 5% | 1/6W |  |
| R176    | 1-249-417-11 | CARBON                              | 1K   | 5% | 1/6W |  |
| R177    | 1-249-424-11 | CARBON                              | 3.9K | 5% | 1/6W |  |
| R178    | 1-249-421-11 | CARBON                              | 2.2K | 5% | 1/6W |  |
| R179    | 1-249-441-11 | CARBON                              | 100K | 5% | 1/6W |  |
| R180    | 1-249-425-11 | CARBON                              | 4.7K | 5% | 1/6W |  |
| R181    | 1-249-441-11 | CARBON                              | 100K | 5% | 1/6W |  |
| R182    | 1-249-425-11 | CARBON                              | 4.7K | 5% | 1/6W |  |
| R183    | 1-249-459-11 | CARBON                              | 12K  | 5% | 1/4W |  |
| R201    | 1-247-713-11 | CARBON                              | 1K   | 5% | 1/4W |  |
| R202    | 1-247-726-11 | CARBON                              | 33K  | 5% | 1/4W |  |
| R203    | 1-249-433-11 | CARBON                              | 22K  | 5% | 1/6W |  |
| R204    | 1-249-417-11 | CARBON                              | 1K   | 5% | 1/6W |  |
| R208    | 1-247-717-11 | CARBON                              | 2.2K | 5% | 1/4W |  |
| R214    | 1-249-429-11 | CARBON                              | 10K  | 5% | 1/6W |  |
| R215    | 1-249-430-11 | CARBON                              | 12K  | 5% | 1/6W |  |
| R217    | 1-249-429-11 | CARBON                              | 10K  | 5% | 1/6W |  |
| R218    | 1-249-434-11 | CARBON                              | 27K  | 5% | 1/6W |  |
| R219    | 1-247-700-11 | (W550:US,Canadian,AEP)<br>...CARBON | 100  | 5% | 1/4W |  |
| R226    | 1-246-523-00 | CARBON                              | 120K | 5% | 1/4W |  |
| R227    | 1-247-700-11 | CARBON                              | 100  | 5% | 1/4W |  |
| R228    | 1-246-524-00 | CARBON                              | 130K | 5% | 1/4W |  |
| R229    | 1-247-722-11 | CARBON                              | 5.6K | 5% | 1/4W |  |
| R230    | 1-249-430-11 | CARBON                              | 12K  | 5% | 1/6W |  |

# TC-W550/W551

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description |      |    |        |
|---------|--------------|-------------|------|----|--------|
| R231    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W   |
| R232    | 1-215-477-00 | CARBON      | 220K | 5% | 1/6W   |
| R233    | 1-249-423-11 | CARBON      | 3.3K | 5% | 1/6W   |
| R235    | 1-215-477-00 | CARBON      | 220K | 5% | 1/6W   |
| R236    | 1-249-427-11 | CARBON      | 6.8K | 5% | 1/6W   |
| R237    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W   |
| R238    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W   |
| R240    | 1-246-531-00 | CARBON      | 270K | 5% | 1/4W   |
| R241    | 1-247-700-11 | CARBON      | 100  | 5% | 1/4W   |
| R242    | 1-246-524-00 | CARBON      | 130K | 5% | 1/4W   |
| R243    | 1-247-722-11 | CARBON      | 5.6K | 5% | 1/4W   |
| R244    | 1-249-430-11 | CARBON      | 12K  | 5% | 1/6W   |
| R245    | 1-215-477-00 | CARBON      | 220K | 5% | 1/6W   |
| R246    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W   |
| R249    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W   |
| R250    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W   |
| R252    | 1-249-423-11 | CARBON      | 3.3K | 5% | 1/6W   |
| R253    | 1-249-427-11 | CARBON      | 6.8K | 5% | 1/6W   |
| R254    | 1-247-822-00 | CARBON      | 430  | 5% | 1/6W   |
| R255    | 1-215-436-00 | CARBON      | 4.3K | 5% | 1/6W   |
| R256    | 1-247-840-00 | CARBON      | 2.4K | 5% | 1/6W   |
| R257    | 1-249-427-11 | CARBON      | 6.8K | 5% | 1/6W   |
| R258    | 1-249-415-11 | CARBON      | 680  | 5% | 1/6W   |
| R259    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W   |
| R261    | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/6W   |
| R262    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W   |
| R263    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W   |
| R264    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W   |
| R265    | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/6W   |
| R266    | 1-215-477-00 | CARBON      | 220K | 5% | 1/6W   |
| R267    | 1-249-435-11 | CARBON      | 33K  | 5% | 1/6W   |
| R268    | 1-249-437-11 | CARBON      | 47K  | 5% | 1/6W   |
| R269    | 1-249-401-11 | CARBON      | 47   | 5% | 1/6W   |
| R270    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W   |
| R272    | 1-215-436-00 | CARBON      | 4.3K | 5% | 1/6W   |
| R274    | 1-249-405-11 | CARBON      | 100  | 5% | 1/6W   |
| R275    | 1-247-854-00 | CARBON      | 9.1K | 5% | 1/6W   |
| R276    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W   |
| R277    | 1-249-424-11 | CARBON      | 3.9K | 5% | 1/6W   |
| R278    | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/6W   |
| R279    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W   |
| R280    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W   |
| R281    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W   |
| R282    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W   |
| R283    | 1-249-459-11 | CARBON      | 12K  | 5% | 1/4W   |
| R301    | 1-247-704-11 | CARBON      | 220  | 5% | 1/4W   |
| R302    | 1-247-704-11 | CARBON      | 220  | 5% | 1/4W   |
| R303    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W   |
| R304    | 1-247-704-11 | CARBON      | 220  | 5% | 1/4W   |
| R305    | 1-247-704-11 | CARBON      | 220  | 5% | 1/4W   |
| R306    | 1-249-437-11 | CARBON      | 47K  | 5% | 1/6W   |
| R307    | 1-249-411-11 | CARBON      | 330  | 5% | 1/6W   |
| R308    | 1-212-855-11 | FUSIBLE     | 8.2  | 5% | 1/4W F |
| R309    | 1-249-433-11 | CARBON      | 22K  | 5% | 1/6W   |
| R310    | 1-249-433-11 | CARBON      | 22K  | 5% | 1/6W   |
| R311    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W   |
| R312    | 1-249-430-11 | CARBON      | 12K  | 5% | 1/6W   |

## ELECTRICAL PARTS

| Ref.No. | Part No.     | Description |      |    |      |
|---------|--------------|-------------|------|----|------|
| R313    | 1-249-427-11 | CARBON      | 6.8K | 5% | 1/6W |
| R314    | 1-249-422-11 | CARBON      | 2.7K | 5% | 1/6W |
| R315    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W |
| R316    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W |
| R317    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W |
| R318    | 1-214-777-00 | METAL       | 100K | 1% | 1/4W |
| R319    | 1-247-714-11 | CARBON      | 1.2K | 5% | 1/4W |
| R320    | 1-247-714-11 | CARBON      | 1.2K | 5% | 1/4W |
| R321    | 1-247-704-11 | CARBON      | 220  | 5% | 1/4W |
| R322    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R323    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R324    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R325    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R326    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R327    | 1-247-713-11 | CARBON      | 1K   | 5% | 1/4W |
| R328    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R329    | 1-247-725-11 | CARBON      | 10K  | 5% | 1/4W |
| R330    | 1-247-717-11 | CARBON      | 2.2K | 5% | 1/4W |
| R331    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W |
| R332    | 1-249-405-11 | CARBON      | 100  | 5% | 1/6W |
| R334    | 1-249-420-11 | CARBON      | 1.8K | 5% | 1/6W |
| R335    | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/6W |
| R336    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W |
| R337    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W |
| R338    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W |
| R339    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W |
| R342    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W |
| R343    | 1-249-437-11 | CARBON      | 47K  | 5% | 1/6W |
| R344    | 1-249-417-11 | CARBON      | 1K   | 5% | 1/6W |
| R345    | 1-249-425-11 | CARBON      | 4.7K | 5% | 1/6W |
| R346    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W |
| R353    | 1-249-427-11 | CARBON      | 6.8K | 5% | 1/6W |
| R354    | 1-249-441-11 | CARBON      | 100K | 5% | 1/6W |
| R355    | 1-249-423-11 | CARBON      | 3.3K | 5% | 1/6W |
| R501    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W |
| R503    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R504    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R506    | 1-249-421-11 | CARBON      | 2.2K | 5% | 1/6W |
| R507    | 1-249-429-11 | CARBON      | 10K  | 5% | 1/6W |
| R508    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W |
| R509    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W |
| R510    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W |
| R511    | 1-249-431-11 | CARBON      | 15K  | 5% | 1/6W |
| R513    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R514    | 1-249-420-11 | CARBON      | 1.8K | 5% | 1/6W |
| R515    | 1-249-414-11 | CARBON      | 560  | 5% | 1/6W |
| R516    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R517    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R518    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R519    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R520    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R521    | 1-249-420-11 | CARBON      | 1.8K | 5% | 1/6W |
| R522    | 1-249-414-11 | CARBON      | 560  | 5% | 1/6W |
| R523    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R524    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R525    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |
| R526    | 1-249-418-11 | CARBON      | 1.2K | 5% | 1/6W |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

| Ref.No. | Part No.     | Description               |      |    |      |
|---------|--------------|---------------------------|------|----|------|
| R529    | 1-249-401-11 | CARBON                    | 47   | 5% | 1/6W |
| R530    | 1-249-401-11 | CARBON                    | 47   | 5% | 1/6W |
| R532    | 1-249-399-11 | CARBON                    | 33   | 5% | 1/6W |
| R534    | 1-249-413-11 | CARBON                    | 470  | 5% | 1/6W |
| R535    | 1-249-399-11 | CARBON                    | 33   | 5% | 1/6W |
| R536    | 1-249-399-11 | CARBON                    | 33   | 5% | 1/6W |
| R540    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R542    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R543    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R544    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R545    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R546    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R547    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R548    | 1-249-421-11 | CARBON                    | 2.2K | 5% | 1/6W |
| R549    | 1-249-399-11 | (W550:US,Canadian,AEP)    |      |    |      |
|         |              | ...CARBON                 | 33   | 5% | 1/6W |
| R553    | 1-249-425-11 | (W551:US)...CARBON        | 4.7K | 5% | 1/6W |
| R554    | 1-249-417-11 | (W551:US)...CARBON        | 1K   | 5% | 1/6W |
| R555    | 1-249-417-11 | (W551:US)...CARBON        | 1K   | 5% | 1/6W |
| R556    | 1-249-441-11 | CARBON                    | 100K | 5% | 1/6W |
| R557    | 1-249-434-11 | CARBON                    | 27K  | 5% | 1/6W |
| R558    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R559    | 1-249-409-11 | CARBON                    | 220  | 5% | 1/6W |
| R560    | 1-249-441-11 | CARBON                    | 100K | 5% | 1/6W |
| R561    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R570    | 1-215-485-00 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 470K | 5% | 1/6W |
| R571    | 1-249-423-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 3.3K | 5% | 1/6W |
| R572    | 1-249-441-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 100K | 5% | 1/6W |
| R574    | 1-249-429-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 10K  | 5% | 1/6W |
| R575    | 1-249-428-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 8.2K | 5% | 1/6W |
| R576    | 1-249-420-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 1.8K | 5% | 1/6W |
| R577    | 1-249-441-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 100K | 5% | 1/6W |
| R578    | 1-249-417-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 1K   | 5% | 1/6W |
| R579    | 1-249-441-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 100K | 5% | 1/6W |
| R580    | 1-249-429-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 10K  | 5% | 1/6W |
| R581    | 1-249-441-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 100K | 5% | 1/6W |
| R582    | 1-249-417-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 1K   | 5% | 1/6W |
| R583    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R584    | 1-249-438-11 | (W550:US,Canadian,AEP)... |      |    |      |
|         |              | CARBON                    | 56K  | 5% | 1/6W |
| R585    | 1-249-441-11 | CARBON                    | 100K | 5% | 1/6W |
| R586    | 1-249-430-11 | CARBON                    | 12K  | 5% | 1/6W |
| R587    | 1-249-432-11 | CARBON                    | 18K  | 5% | 1/6W |
| R588    | 1-249-405-11 | CARBON                    | 100  | 5% | 1/6W |
| R589    | 1-249-433-11 | CARBON                    | 22K  | 5% | 1/6W |
| R590    | 1-249-393-11 | CARBON                    | 10   | 5% | 1/6W |
| R593    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R594    | 1-249-429-11 | CARBON                    | 10K  | 5% | 1/6W |
| R595    | 1-249-441-11 | CARBON                    | 100K | 5% | 1/6W |
| R596    | 1-249-441-11 | CARBON                    | 100K | 5% | 1/6W |

ELECTRICAL PARTS

| Ref.No. | Part No.       | Description                        |      |    |      |
|---------|----------------|------------------------------------|------|----|------|
| R597    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R598    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R599    | 1-249-393-11   | CARBON                             | 10   | 5% | 1/6W |
| R600    | 1-249-393-11   | CARBON                             | 10   | 5% | 1/6W |
| R601    | 1-249-393-11   | CARBON                             | 10   | 5% | 1/6W |
| R605    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R606    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R607    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R608    | 1-215-493-00   | CARBON                             | 1M   | 5% | 1/6W |
| R610    | 1-249-421-11   | CARBON                             | 2.2K | 5% | 1/6W |
| R611    | 1-249-429-11   | CARBON                             | 10K  | 5% | 1/6W |
| R613    | 1-249-417-11   | CARBON                             | 1K   | 5% | 1/6W |
| R614    | 1-249-417-11   | CARBON                             | 1K   | 5% | 1/6W |
| R615    | 1-249-429-11   | CARBON                             | 10K  | 5% | 1/6W |
| R616    | 1-249-429-11   | CARBON                             | 10K  | 5% | 1/6W |
| R621    | 1-249-434-11   | CARBON                             | 27K  | 5% | 1/6W |
| R627    | 1-249-409-11   | CARBON                             | 220  | 5% | 1/6W |
| R628    | 1-249-421-11   | CARBON                             | 2.2K | 5% | 1/6W |
| R631    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R634    | A.1-206-467-00 | METAL OXIDE                        | 15   | 5% | 2W F |
| R635    | 1-215-493-00   | CARBON                             | 1M   | 5% | 1/6W |
| R636    | 1-249-422-11   | CARBON                             | 2.7K | 5% | 1/6W |
| R901    | 1-249-433-11   | CARBON                             | 22K  | 5% | 1/6W |
| R902    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R903    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R904    | 1-249-425-11   | CARBON                             | 4.7K | 5% | 1/6W |
| R905    | 1-249-425-11   | CARBON                             | 4.7K | 5% | 1/6W |
| R911    | 1-249-433-11   | CARBON                             | 22K  | 5% | 1/6W |
| R912    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R913    | 1-249-441-11   | CARBON                             | 100K | 5% | 1/6W |
| R914    | 1-249-425-11   | CARBON                             | 4.7K | 5% | 1/6W |
| R915    | 1-249-425-11   | CARBON                             | 4.7K | 5% | 1/6W |
| R1000   | 1-249-406-11   | CARBON                             | 120  | 5% | 1/6W |
| RV101   | 1-228-670-00   | RES, VAR, SLIDE 20K (REC LEVEL:L)  |      |    |      |
| RV102   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV103   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV104   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV201   | 1-228-670-00   | RES, VAR, SLIDE 20K (REC LEVEL:R)  |      |    |      |
| RV202   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV203   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV204   | 1-230-630-11   | RES, ADJ, CARBON 10K               |      |    |      |
| RV501   | 1-228-995-00   | RES, ADJ, CARBON 22K               |      |    |      |
| RV502   | 1-228-995-00   | RES, ADJ, CARBON 22K               |      |    |      |
| RV503   | 1-228-995-00   | RES, ADJ, CARBON 22K               |      |    |      |
| RV504   | 1-228-995-00   | RES, ADJ, CARBON 22K               |      |    |      |
| RY301   | 1-515-323-21   | (W550:Canadian,AEP)....RELAY       |      |    |      |
| RY301   | 1-515-645-11   | (W550:US,W551).....RELAY           |      |    |      |
| S301    | 1-570-981-11   | SWITCH, PUSH (3 KEY)(TAPE SELECT)  |      |    |      |
| S302    | 1-570-531-11   | SWITCH, PUSH (2 KEY)(DOLBY NR)     |      |    |      |
| S303    | 1-570-103-21   | SWITCH, PUSH (1 KEY)(POWER)        |      |    |      |
| S801    | 1-554-980-11   | SWITCH, KEY BOARD (SYNCHRO:NORMAL) |      |    |      |
| S802    | 1-554-980-11   | SWITCH, KEY BOARD (SYNCHRO:HIGH)   |      |    |      |
| S805    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-A:REW)     |      |    |      |
| S807    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-A:STOP)    |      |    |      |
| S808    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-A:PLAY)    |      |    |      |
| S809    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-A:FF)      |      |    |      |

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

| Ref.No. | Part No.       | Description                                                  |
|---------|----------------|--------------------------------------------------------------|
| S810    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:REW)                               |
| S812    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:STOP)                              |
| S813    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:PLAY)                              |
| S814    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:FF)                                |
| S815    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:REC)                               |
| S816    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:PAUSE)                             |
| S817    | 1-554-980-11   | SWITCH, KEY BOARD (DECK-B:REC MUTE)                          |
| S818    | 1-554-980-11   | (W550:US,Canadian,AEP)....<br>SWITCH, KEY BOARD (DECK-A:AMS) |
| S901    | 1-570-720-11   | SWITCH, PUSH (1 KEY)(HALF DET)                               |
| S903    | 1-570-719-11   | SWITCH, LEAF (LOADING)                                       |
| S951    | 1-570-720-11   | SWITCH, PUSH (1 KEY)(HALFDET)                                |
| S953    | 1-570-719-11   | SWITCH, LEAF (LOADING)                                       |
| S954    | 1-570-720-11   | SWITCH, PUSH (1 KEY)(ERASE PROOF)                            |
| SPK101  | 1-235-186-00   | ENCAPSULATED COMPONENT                                       |
| SPK201  | 1-235-186-00   | ENCAPSULATED COMPONENT                                       |
| T301    | 1-433-309-11   | TRANSFORMER, BIAS OSCILLATION                                |
| T901    | A.1-448-376-11 | (W550:US,Canadian,W551)....<br>...TRANSFORMER, POWER         |
| T901    | A.1-448-376-11 | (W550:AEP).....TRANSFORMER, POWER                            |
| X501    | 1-567-094-00   | VIBRATOR, CERAMIC                                            |
| X502    | 1-527-532-00   | OSCILLATOR, CERAMIC                                          |

ACCESSORY & PACKING MATERIAL

| Part No.      | Description                    |
|---------------|--------------------------------|
| 1-558-233-11  | CORD (WITH CONNECTOR)(SIRCS)4P |
| 1-558-787-11  | CORD, CONNECTION               |
| 3-327-651-61  | INDIVIDUAL CARTON              |
| 3-332-462-01  | CUSHION                        |
| 3-701-630-00  | BAG, POLYETHYLENE              |
| 3-703-450-01  | INSTRUCTION                    |
| 3-703-710-41  | STICKER, SONY SYMBOL (12)      |
| 3-703-713-41  | STICKER, SONY SYMBOL (10)      |
| *3-703-978-01 | LABEL (A), FIRE CAUTION        |
| 3-765-917-21  | MANUAL, INSTRUCTION            |
| 4-858-078-00  | SHEET, PROTECTION              |

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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

## SECTION 8

### TROUBLESHOOTING

The following troubleshooting will help you correct the most common problems encountered with a tape deck. Should any problem persists after you have made these checks, consult your nearest Sony service facility.

Before proceeding with these trouble checks, first check these basic points:

- The power cord must be firmly connected.
- Amplifier connections must be firmly made.
- Heads, capstans and pinch rollers should be clean.
- The amplifier controls and switches should be set correctly.

|                                           | Trouble                                                                           | Cause and remedy                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TAPE OPERATION BUTTONS AND TAPE TRANSPORT | The tape does not run when the operation button is pressed.                       | The unit does not work for about two seconds after the power is turned on.<br>→ Wait until the <b>II</b> indicator goes off.                           |
|                                           |                                                                                   | The cassette is not properly inserted.                                                                                                                 |
|                                           |                                                                                   | The cassette holder is not properly closed.                                                                                                            |
|                                           |                                                                                   | The <b>II</b> button is pressed.<br>→ Press the <b>II</b> button again to release the pause mode.                                                      |
|                                           | The transport noise seems excessively loud at the fast winding mode.              | No trouble.<br>This situation depends upon the cassette used.                                                                                          |
|                                           | The automatic shut-off mechanism activates before the tape ends.                  | The cassette has tape slack.                                                                                                                           |
|                                           |                                                                                   | The cassette is defective.                                                                                                                             |
|                                           | The <b>●</b> button does not activates.                                           | No cassette is in the holder.                                                                                                                          |
|                                           |                                                                                   | The cassette tab has removed.<br>→ Cover the hole with plastic tape.                                                                                   |
|                                           | The AMS function does not operate.                                                | A blank space is too short (less than 4 seconds).<br>→ Insert over 4-second blank with the record muting button.                                       |
|                                           |                                                                                   | There is noise in the blank space between selections.                                                                                                  |
| RECORDING AND PLAYBACK                    | Playback cannot be heard, recording cannot be made, or the sound level decreases. | The heads are dirty.                                                                                                                                   |
|                                           |                                                                                   | The connections are not made properly.                                                                                                                 |
|                                           |                                                                                   | The amplifier input selector is not set to the correct position.                                                                                       |
|                                           | Excessive wow and flutter or drop out                                             | The heads, capstans or pinch rollers are dirty.                                                                                                        |
|                                           | Incomplete erasure                                                                | The erase head is dirty.                                                                                                                               |
|                                           | Noise or erasure occurs.                                                          | Magnetic build-up on the head.<br>→ Demagnetize the head.                                                                                              |
| NOISE                                     | Unbalanced tone in higher frequencies.                                            | The DOLBY NR switch is not set to the correct position.<br>→ During playback, set the switch to the same position used when the cassette was recorded. |
|                                           |                                                                                   | The unit is placed near a television set.                                                                                                              |
|                                           | A hum is heard.                                                                   | The unit is placed directly on or under the amplifier.<br>→ Move the unit away from the amplifier.                                                     |
|                                           | Noise is recorded.                                                                | Recording is made near a television set or a color monitor.<br>→ Move the unit away from the television set or color monitor.                          |