TC-W7R

SERVICE MANUAL

US Model
E Model
AEP Model

'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SESSION CD 1000

SPECIFICATIONS

Tape Transport Mechanism Type	TCM-150R3 (A DECK) TCM-150R5 (B DECK)

Recording system 4-track 2-channel stereo

Fast-forward and rewind time
Approx. 90 sec. (with C-60 cassette)

Bias frequency 105 kHz

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

Cassette / Dolby NR button	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)	58 dB	65 dB	71 dB
TYPE II (Sony UCX)	57 dB	64 dB	70 dB
TYPE I (Sony BHF)	54 dB	61 dB	67 dB

Total harmonic distortion
1.0% (with Sony METALLIC cassette)

Frequency response DOLBY NR OFF
- With TYPE IV cassette (Sony METALLIC)
  20 - 17,000 Hz
  30 - 15,000 Hz (±3 dB)
  30 - 13,000 Hz (±3 dB, 0 VU recording)
  30 - 15,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
  20 - 16,000 Hz
  30 - 15,000 Hz (±3 dB)
  30 - 15,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
  20 - 15,000 Hz
  30 - 15,000 Hz (DIN)

Wow and flutter 0.045% WRMS (NAB)
±0.15% (DIN)

Inputs Line inputs (phono jacks)
Sensitivity 77.5 mV (−20 dB)
Input impedance 50 k ohms

Outputs Line outputs (phono jacks)
Rated output level 0.44 V (−5 dB) at load impedance 50 k ohms
Load impedance over 10 k ohms
Headphone output
Output level −28 dB at a load impedance of 8 ohms

General

Power requirements 120 V ac, 60 Hz (US model)
220 V ac, 50/60 Hz (AEP model)
120, 220 or 240 V ac adjustable 50/60 Hz (E model)

Power consumption 25 watts

Dimensions Approx. 430 × 105 × 275 mm (w/h/d)
($17 \times 4^1/_8 \times 10^7/_8$ inches)
including projecting parts and controls

Weight Approx. 5.5 kg (12 lbs 3 oz)

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.

MICROFILM

STEREO DOUBLE CASSETTE DECK

SONY®

TC

FEATURES

Auto-reverse recording and playback (deck B)
Continuous recording and playback of both sides of the cassette is possible without turning the cassette over. When the tape reaches its end, the roto-bilateral record/playback head reverses position and the other side of the cassette will be recorded or played back automatically.
The roto-bilateral head assures the same performance characteristics in either tape transport direction.

Quick reverse (deck B)
The head reverses position quickly when the tape reaches the leader tape at the end when recording or playing back the front side of a cassette, allowing recording or playback to be continued with little interruption.

Synchro dubbing function
Either one side or both sides of the cassette can be duplicated at normal or high speed.

Long playback function
When cassettes are loaded in both decks A and B and deck A is started first, each deck plays back the cassette alternately 5 times. When a cassette is loaded in either deck, it is played back 5 times.

Blank skip function
Blank spaces of 10 seconds or more can be skipped in either fast-forward or fast-reverse mode so that only the recorded portions of the tape are played back.

C-type Dolby NR (noise reduction) system
In addition to the conventional B-type Dolby NR system, this cassette deck employs the newly-developed C-type Dolby NR system which reduces tape noise twice as effectively as the B-type system.

Multi purpose remote control
With the optional system remote controller RM-S410, the various operations (AMS, rec muting, etc.) can be performed from a distance. The SYNCHRO connector is provided for synchronized recording with a turntable.

Timer-activated recording or playback (deck B)
A timer switch is provided to turn the deck on and off at times preset on an optional timer.

AMS (Automatic Music Sensor)
The AMS locates the beginning of the selection being played or the following selection and plays back the selection automatically.

Automatic tape select system
Type I, II or IV tape is automatically detected and the recorder is adjusted to its optimum bias current for recording and the optimum equalization for both recording and playback by simply inserting the cassette in the cassette holder.

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 microampers). 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)

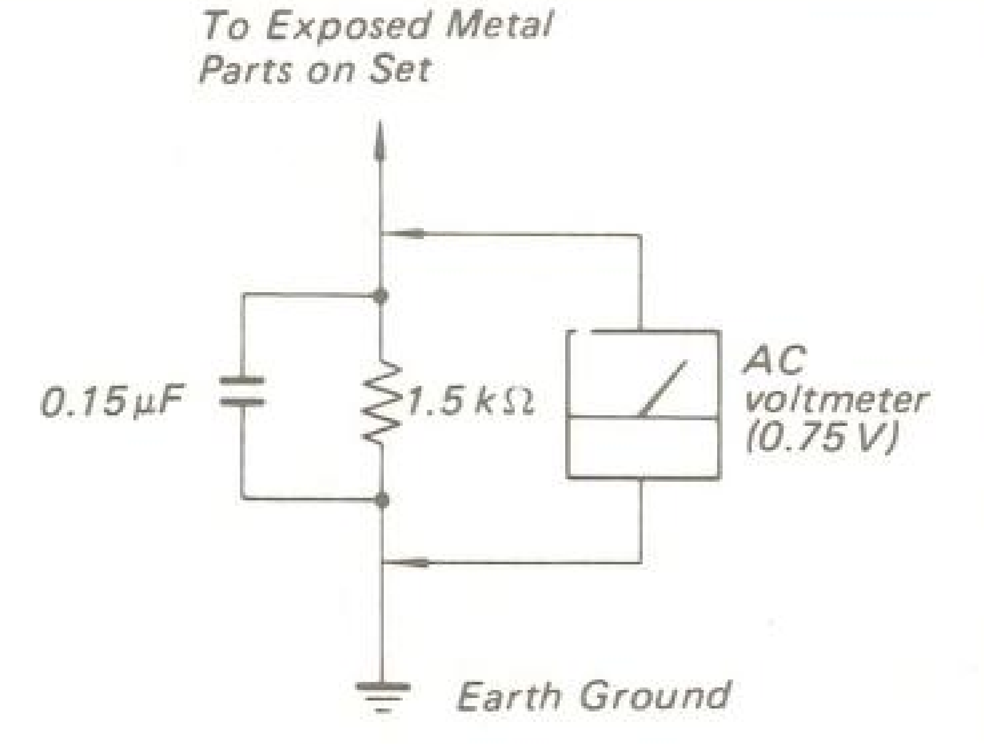
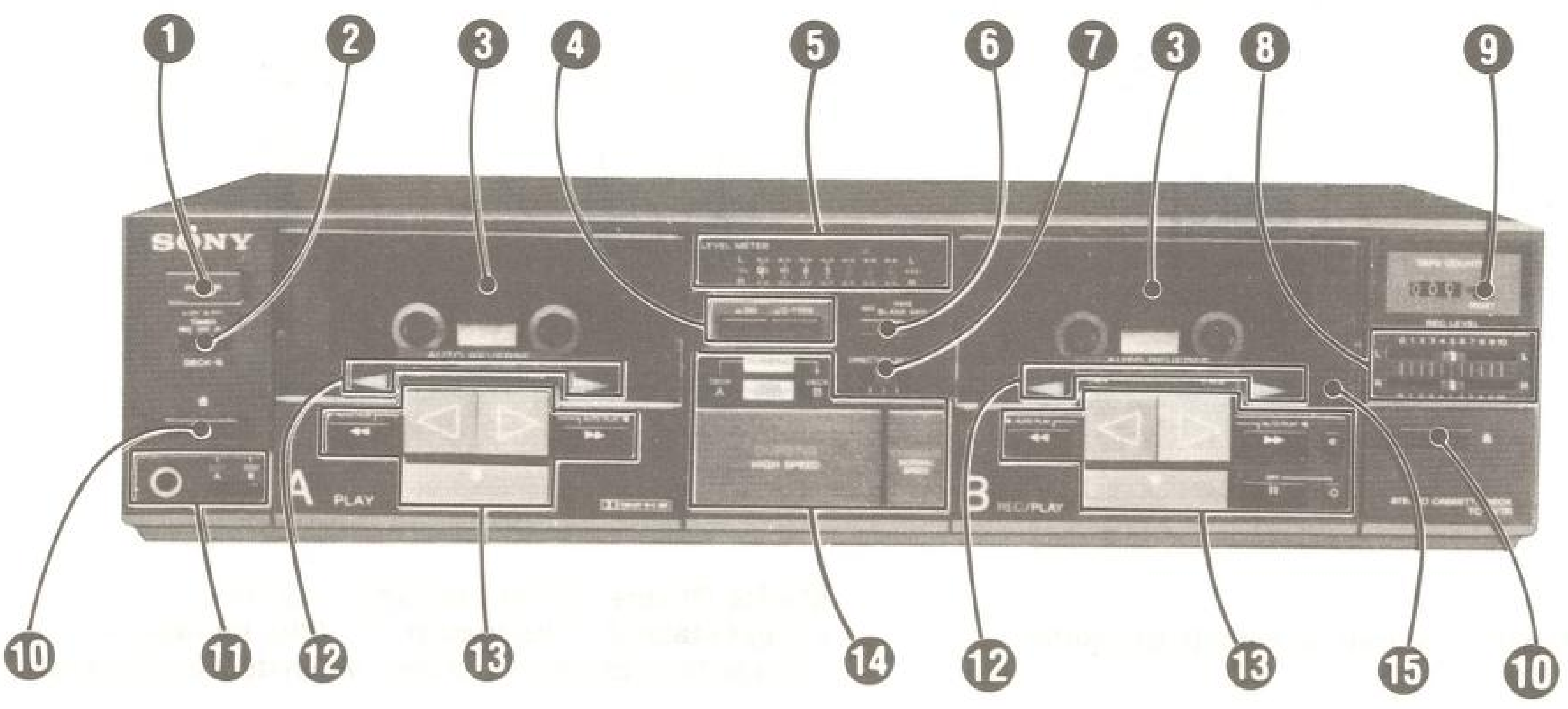


Fig. A. Using an AC voltmeter to check AC leakage.

FUNCTION OF CONTROLS

Front panel



❶ POWER switch
This turns the power on or off.

❷ TIMER switch (deck B)
You can set the unit to record or playback at a predetermined time by connecting any commercially available timer.

❸ Cassette holders

❹ DOLBY NR switches
To record or play back using the Dolby NR* (Noise Reduction) system, set the switches as follows.

Dolby NR system	Switch setting	
	Left switch	Right switch
Dolby B	ON	OFF
Dolby C	ON	ON
Dolby OFF	OFF	Either position

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❺ PEAK LEVEL METERs
These meters show the peak input level of each channel during recording, and recorded levels in the playback mode.
When both decks A and B are activated, the meters show the level of the deck B.

❻ AMS/BLANK SKIP button and indicator
To activate the AMS and blank skip functions, press this button. The indicator of the button lights. To cancel these functions, press it again. The indicator goes off.

❼ DIRECTION MODE switch
Set this switch to select the mode of tape movement for recording and playback.

⇄ (one-direction) : To record or play back one side of the cassette.
⇄ (one-cycle) : To record or play back both sides of the cassette. If the switch is set to this position when the reverse side of the cassette is being recorded or played back, the tape will stop at the end of that side.
⟲ (five-cycle) : To play back both sides of the cassette five times. If the switch is set to this position when the reverse side of the cassette is being recorded or played back, the tape will stop at the end of the 5th playback of the reverse side so that the front side will have been played back only four times. The recording will stop at the end of the reverse side.

❽ REC LEVEL (recording level) controls
Adjust the recording level by observing the PEAK LEVEL METERs.

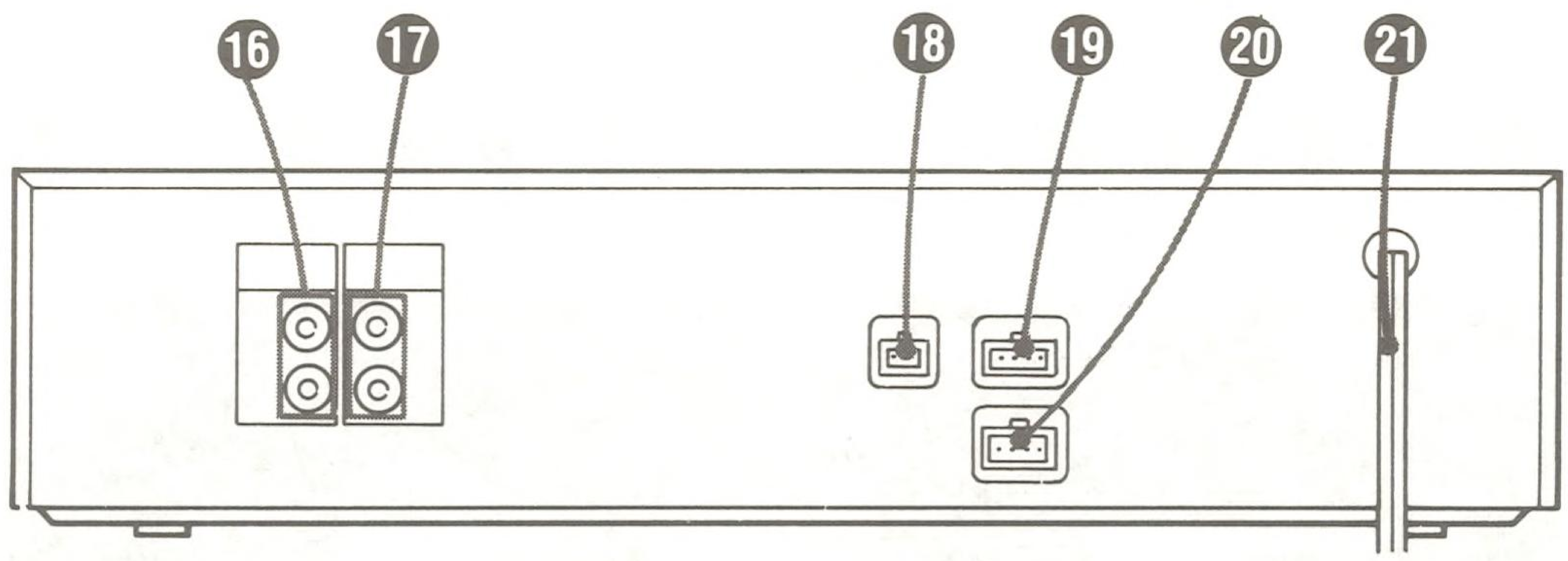
❾ TAPE COUNTER and RESET button (deck B)
The tape counter provides a numerical reference point while recording which can be used to index a recorded cassette. To reset to zero, press the RESET button.

❿ ⏏ (eject) buttons
Press these buttons to open the cassette holders.

⓫ HEADPHONES jack (stereo phone jack)
Connect a pair of headphones either to monitor the input signals to be recorded or to listen to a recording in the playback mode.

⓬ DIRECTION indicators
Light up in green for normal operation. When ● button is pressed, these indicators turn to red.

Rear panel



⑬ **Function buttons**
It is possible to switch directly from one mode to another.

(decks A and B)
▷ (forward) button : Press this button to play the front side of the cassette. To record, press this button while holding the ● button down. The tape is transported to the right.
◁ (reverse play) button : Press this button to play back the reverse side of the cassette. To record on the reverse side, press this button while holding the ● button down. The tape will be transported to the left.
◀◀ (fast-reverse) button : Press this button to advance the tape rapidly to the left. It is also used for the AMS and auto play functions.
▶▶ (fast-forward) button : Press this button to advance the tape rapidly to the right. It is also used for the AMS and auto play functions.
■ (stop) button : Press this button to stop the tape, or to disengage the ● button.

(deck B)
❚❚ button : Press this button to stop the tape running for a moment during recording or playback.
● (record) button : Press this button together with the ▷ or ◁ button to start recording. When this button is pressed for recording level adjustment, the deck will detect the tab of the cassette and the DIRECTION indicators ◁ and ▷ will illuminate to indicate that a recording can be made. If the tab on one side is removed, the indicator will not light.
O (record muting) button : Press this button to eliminate unwanted material and to insert a blank space during recording.

⑭ **NORMAL SPEED button, HIGH SPEED button and indicators**
Press these buttons to dub from deck A to B.
NORMAL SPEED: Press for normal speed dubbing. The DUBBING indicator illuminates.
HIGH SPEED: Press for high speed dubbing. The DUBBING and HIGH SPEED indicators illuminate.

⑮ **❚❚ (pause) indicator**
Illuminates when the ❚❚ button is pressed. When the power is supplied, the indicator flickers for a few seconds in standby mode.

⑯ **LINE IN (line inputs) jacks** (phono jack)
Accepts tape outputs from an amplifier for tape recording and line outputs from another tape deck when duplicating a tape from that unit.

⑰ **LINE OUT (line outputs) jacks** (phono jack)
Accepts tape inputs from an amplifier for playing back a tape and line inputs from another tape deck for duplicating a tape onto that unit.
The signal is not output at LINE OUT jacks even when the ● button is pressed.

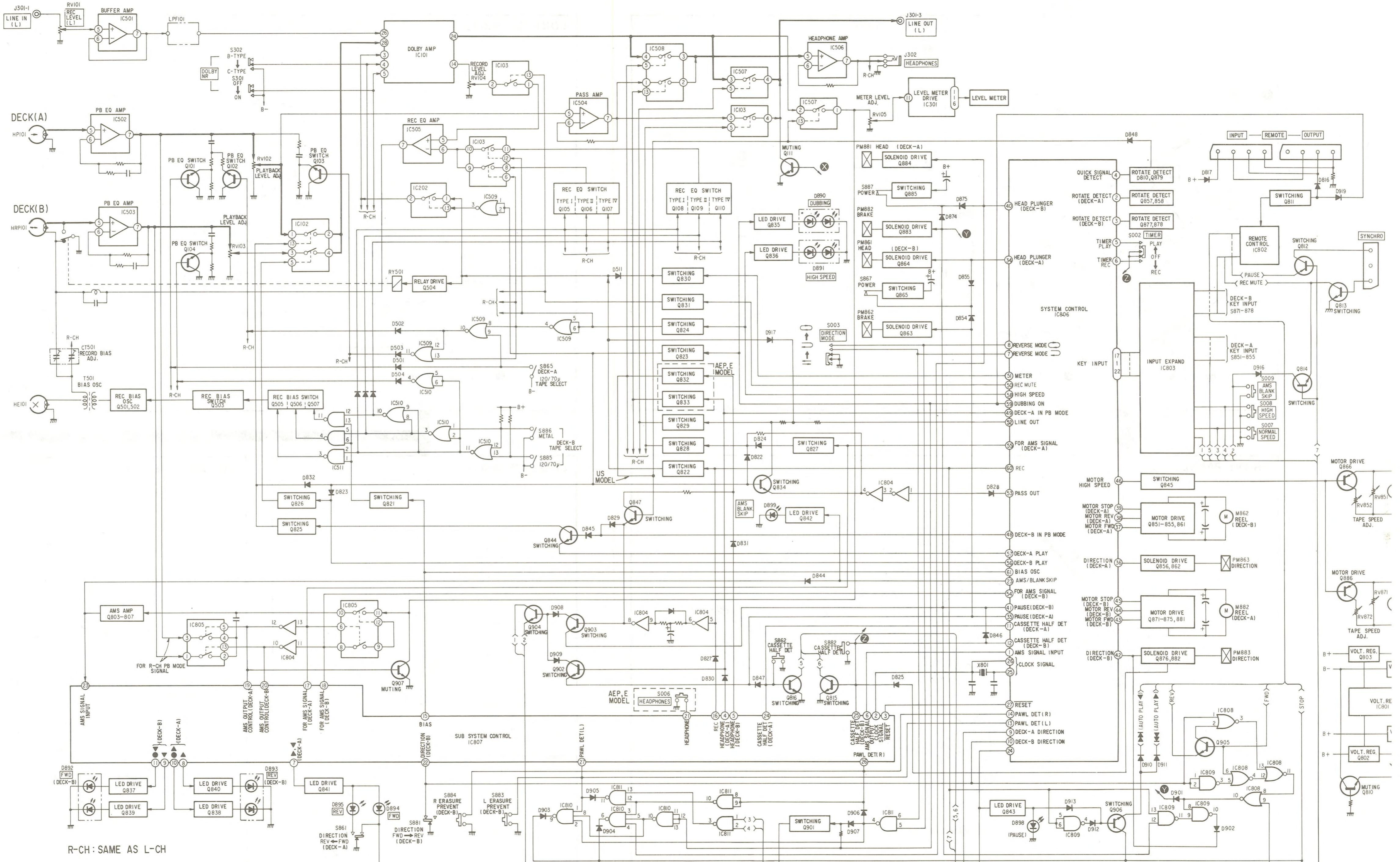
⑱ **SYNCHRO connector**
For synchro recording, connect to the remote connector of the turntable system.

⑲ **REMOTE input connector**
Connect to the R OUT connector of the system remote controller RM-S410 (option).

⑳ **REMOTE output connector**
Connect to the REMOTE connector of the CD player.

㉑ **Power cord**

SECTION 1
BLOCK DIAGRAM



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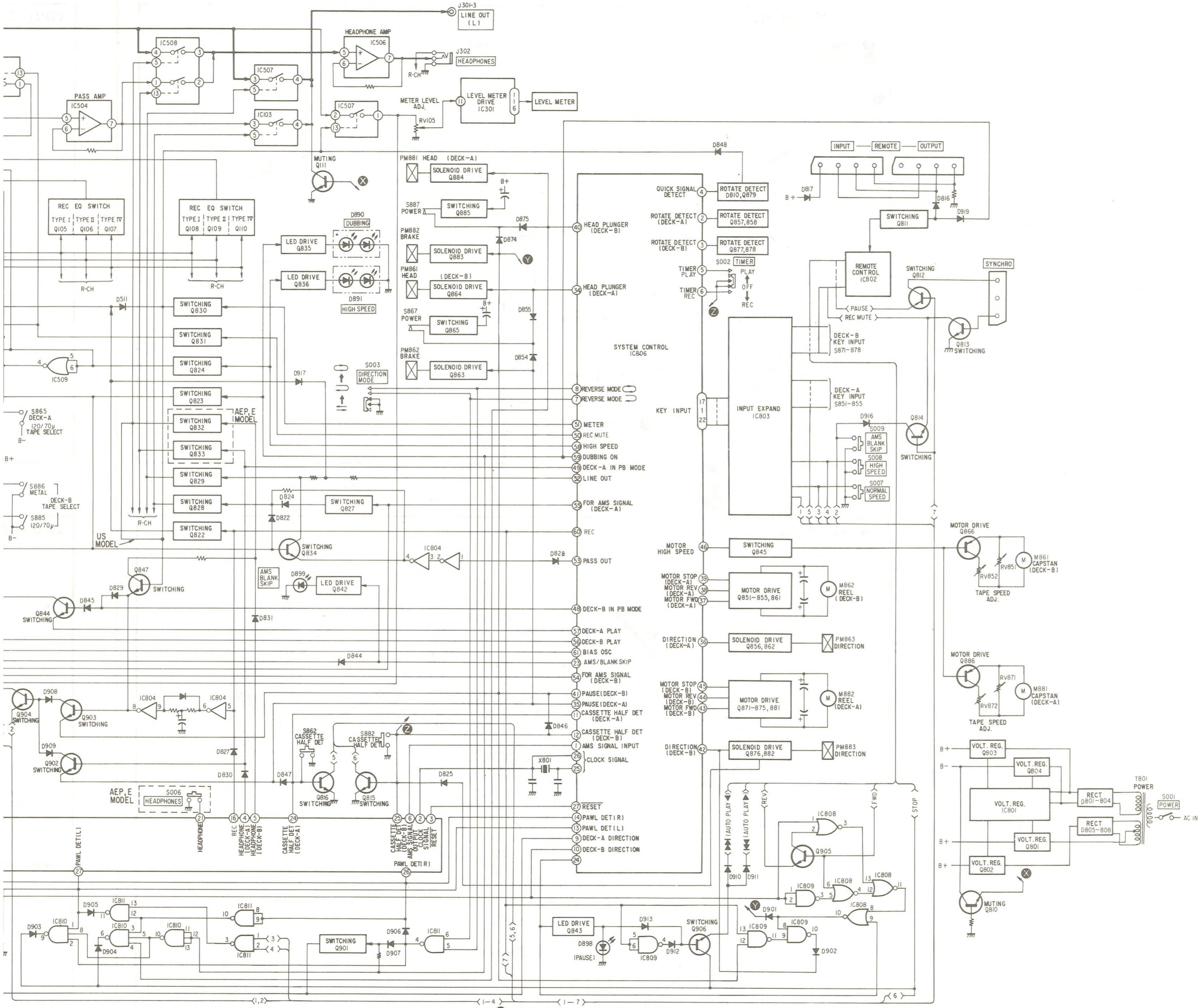
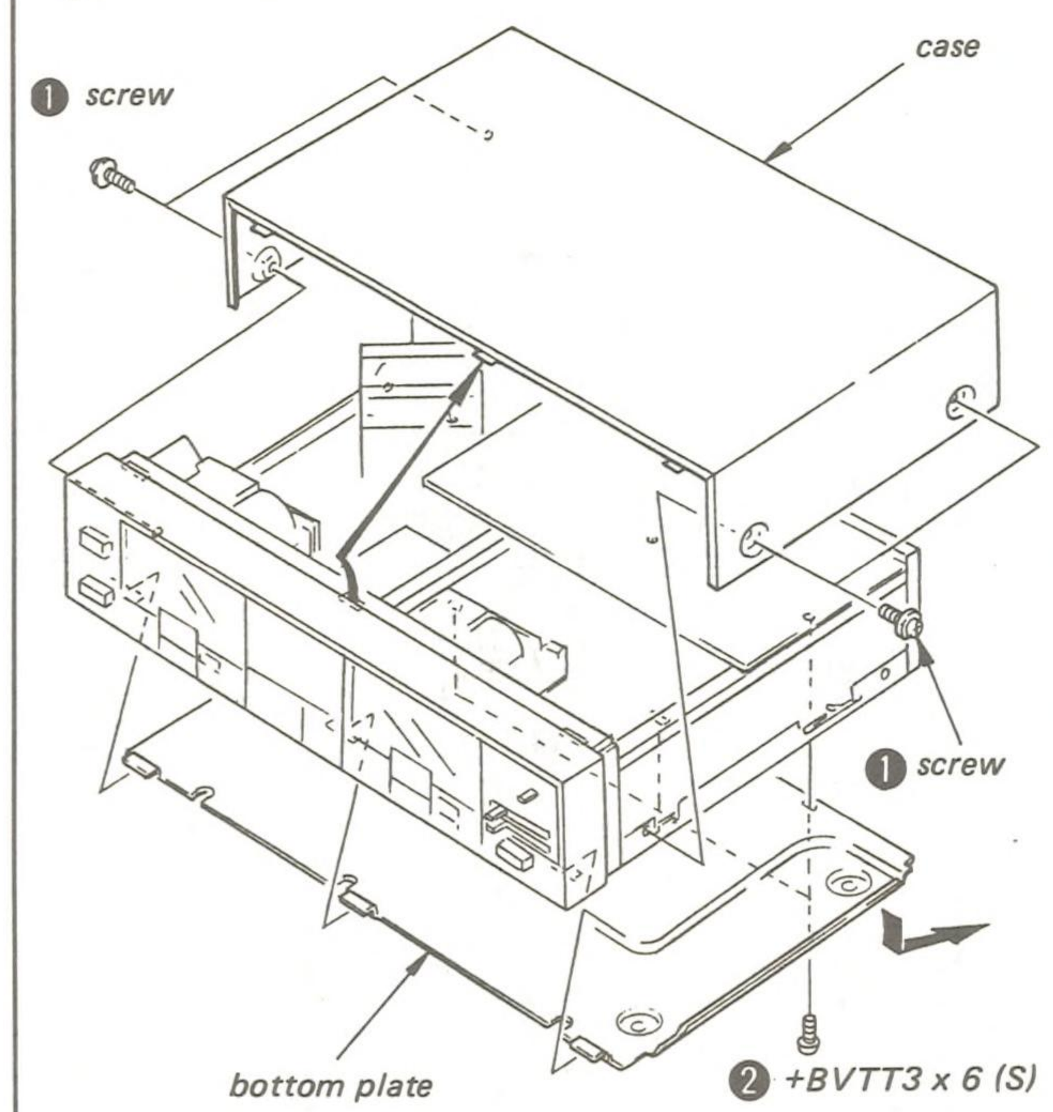

J301-3
LINE OUT (L)
HEADPHONE AMP
IC506
J302
HEADPHONES
R-CH
IC508
IC507
IC103
PASS AMP
IC504
METER LEVEL ADJ.
RV105
LEVEL METER DRIVE IC301
LEVEL METER
MUTING Q111
REC EQ SWITCH
TYPE I
TYPE II
TYPE IV
Q105
Q106
Q107
Q108
Q109
Q110
D848
INPUT
REMOTE
OUTPUT
PM881 HEAD (DECK-A)
SOLENOID DRIVE Q884
S887 POWER
SWITCHING Q885
PM882 BRAKE
SOLENOID DRIVE Q883
PM861 HEAD
(DECK-B)
SOLENOID DRIVE Q864
S867 POWER
SWITCHING Q865
PM862 BRAKE
SOLENOID DRIVE Q863
D875
D874
D855
D854
LED DRIVE Q835
LED DRIVE Q836
D890 DUBBING
D891 HIGH SPEED
S003 DIRECTION MODE
D917
SWITCHING Q830
SWITCHING Q831
SWITCHING Q824
SWITCHING Q823
SWITCHING Q832
SWITCHING Q833
AEP, E MODEL
SWITCHING Q829
SWITCHING Q828
SWITCHING Q822
US MODEL
IC509
D511
S865 DECK-A 120/70μ TAPE SELECT
S886 METAL
DECK-B TAPE SELECT
S885 120/70μ
D824
D822
SWITCHING Q827
SWITCHING Q834
IC804
D828
Q847 SWITCHING
D829
D845
Q844 SWITCHING
AMS BLANK SKIP
D899
LED DRIVE Q842
D831
D844
HEAD PLUNGER (DECK-B)
HEAD PLUNGER (DECK-A)
SYSTEM CONTROL IC806
REVERSE MODE
METER
REC MUTE
HIGH SPEED
DUBBING ON
DECK-A IN PB MODE
LINE OUT
FOR AMS SIGNAL (DECK-A)
REC
PASS OUT
DECK-B IN PB MODE
DECK-A PLAY
DECK-B PLAY
BIAS OSC
AMS/BLANK SKIP
FOR AMS SIGNAL (DECK-B)
PAUSE(DECK-B)
PAUSE(DECK-A)
CASSETTE HALF DET (DECK-A)
CASSETTE HALF DET (DECK-B)
AMS SIGNAL INPUT
CLOCK SIGNAL
RESET
PAWL DET(R)
PAWL DET(L)
DECK-A DIRECTION
DECK-B DIRECTION
QUICK SIGNAL DETECT
ROTATE DETECT D810,Q879
ROTATE DETECT (DECK-A)
ROTATE DETECT Q857,858
ROTATE DETECT (DECK-B)
ROTATE DETECT Q877,878
TIMER PLAY
TIMER REC
S002 TIMER
PLAY OFF REC
KEY INPUT
INPUT EXPAND IC803
D817
D816
D919
SWITCHING Q811
REMOTE CONTROL IC802
SWITCHING Q812
SYNCHRO
PAUSE
REC MUTE
Q813 SWITCHING
DECK-B KEY INPUT S871-878
DECK-A KEY INPUT S851-855
D916
Q814
S009 AMS BLANK SKIP
S008 HIGH SPEED
S007 NORMAL SPEED
SWITCHING
MOTOR HIGH SPEED
SWITCHING Q845
MOTOR DRIVE Q866
RV851
RV852
M861 CAPSTAN (DECK-B)
TAPE SPEED ADJ.
MOTOR STOP (DECK-A)
MOTOR REV (DECK-A)
MOTOR FWD (DECK-A)
MOTOR DRIVE Q851-855, 861
M862 REEL (DECK-B)
DIRECTION (DECK-A)
SOLENOID DRIVE Q856, 862
PM863 DIRECTION
MOTOR DRIVE Q886
RV871
RV872
M881 CAPSTAN (DECK-A)
MOTOR STOP (DECK-B)
MOTOR REV (DECK-B)
MOTOR FWD (DECK-B)
MOTOR DRIVE Q871-875, 881
M882 REEL (DECK-A)
DIRECTION (DECK-B)
SOLENOID DRIVE Q876, 882
PM883 DIRECTION
VOLT. REG. Q803
VOLT. REG. Q804
VOLT. REG. IC801
RECT D801-804
RECT D805-808
T801 POWER
S001 POWER
AC IN
VOLT. REG. Q801
VOLT. REG. Q802
MUTING Q810
Q904 SWITCHING
D908
Q903 SWITCHING
D909
Q902 SWITCHING
D827
D830
D847
S862 CASSETTE HALF DET
S882 CASSETTE HALF DET
Q816 SWITCHING
Q815 SWITCHING
D825
X801
D846
AEP, E MODEL
S006 HEADPHONES
HEADPHONE
PAWL DET(L)
PAWL DET(R)
D903
IC810
D905
D904
IC811
SWITCHING Q901
D906
D907
LED DRIVE Q843
D898 (PAUSE)
D913
IC809
D912
SWITCHING Q906
D901
D902
IC808
Q905
(AUTO PLAY A)
(AUTO PLAY B)
(REV)
(FWD)
STOP
D910
D911
B+
B-

SECTION 2
DISASSEMBLY

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

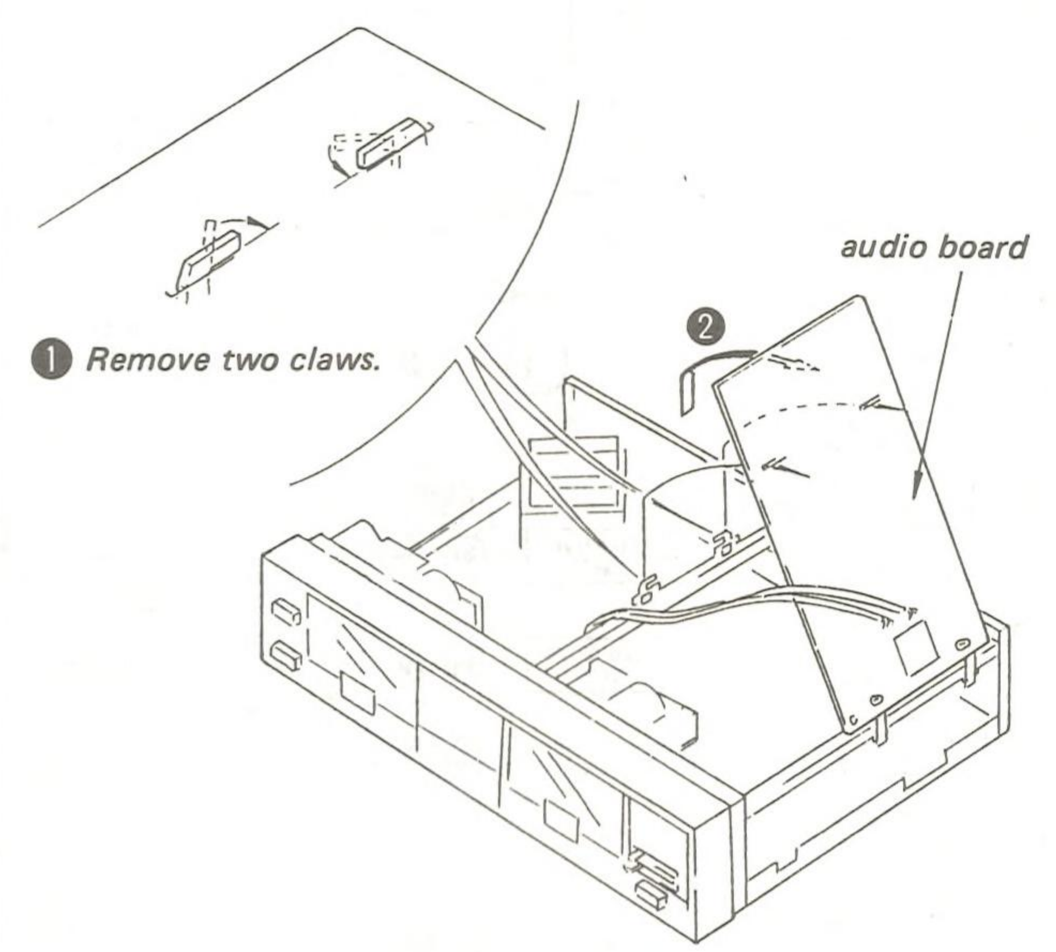
CASE/BOTTOM PLATE

1 : case
2 : bottom plate

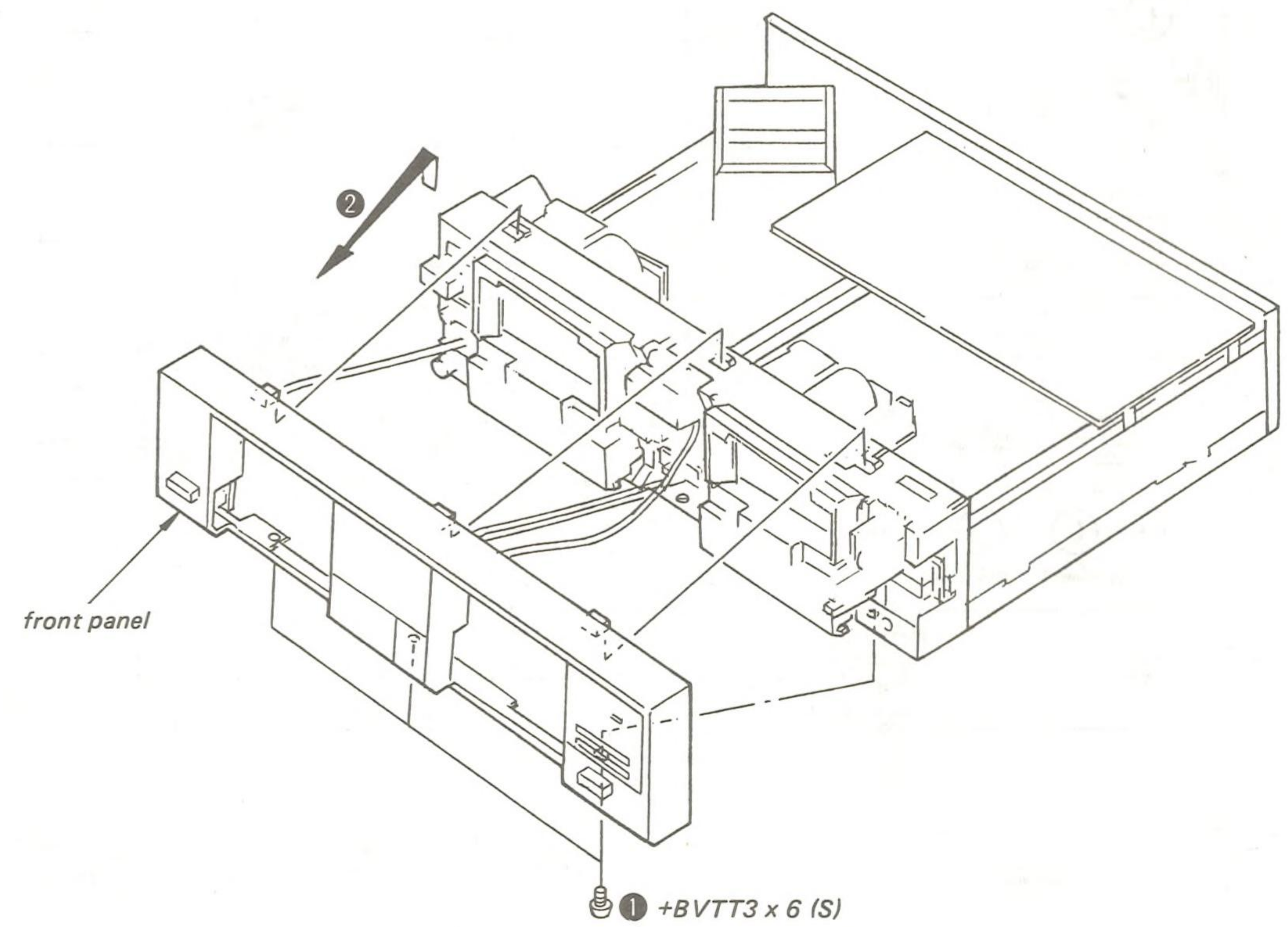


AUDIO BOARD

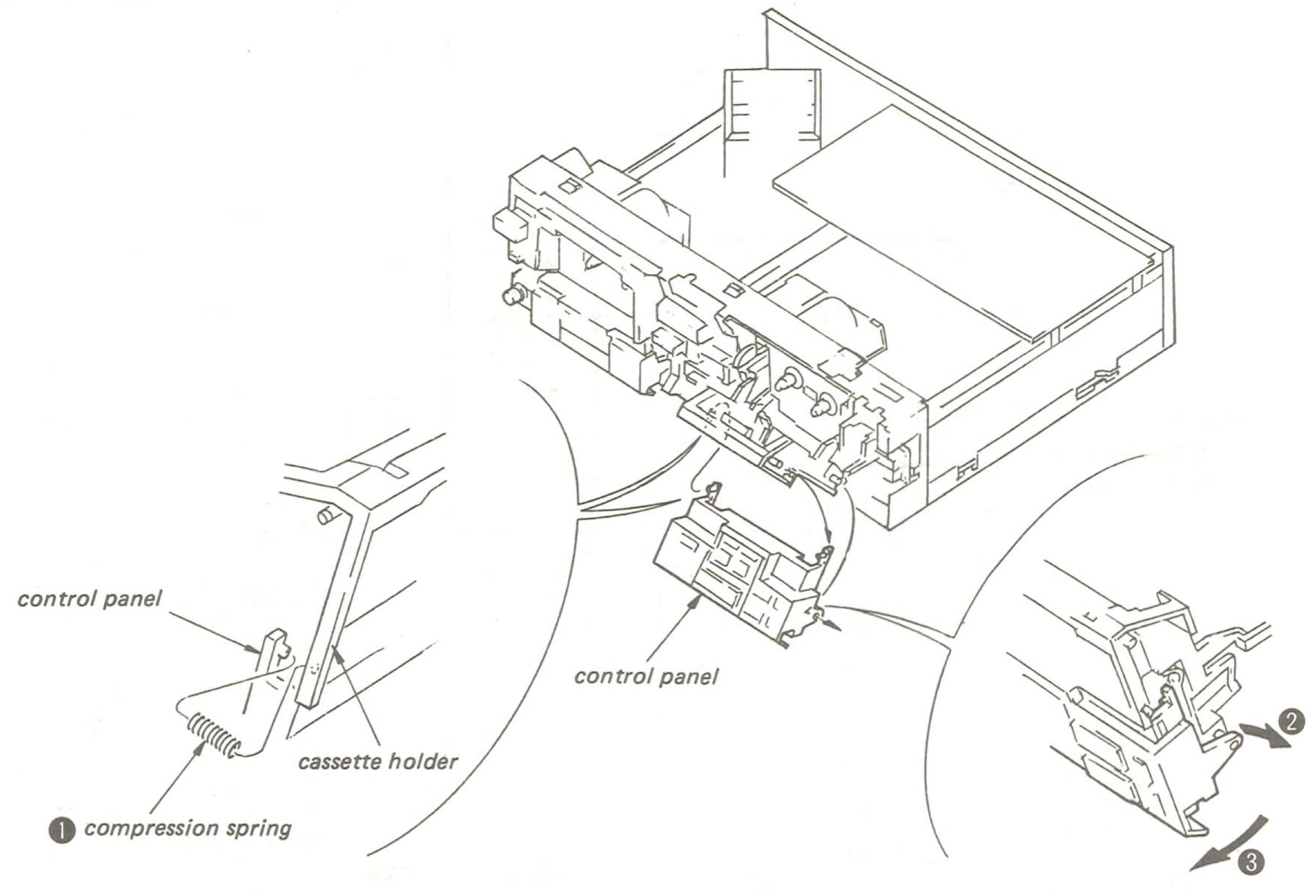
1 Remove the case.



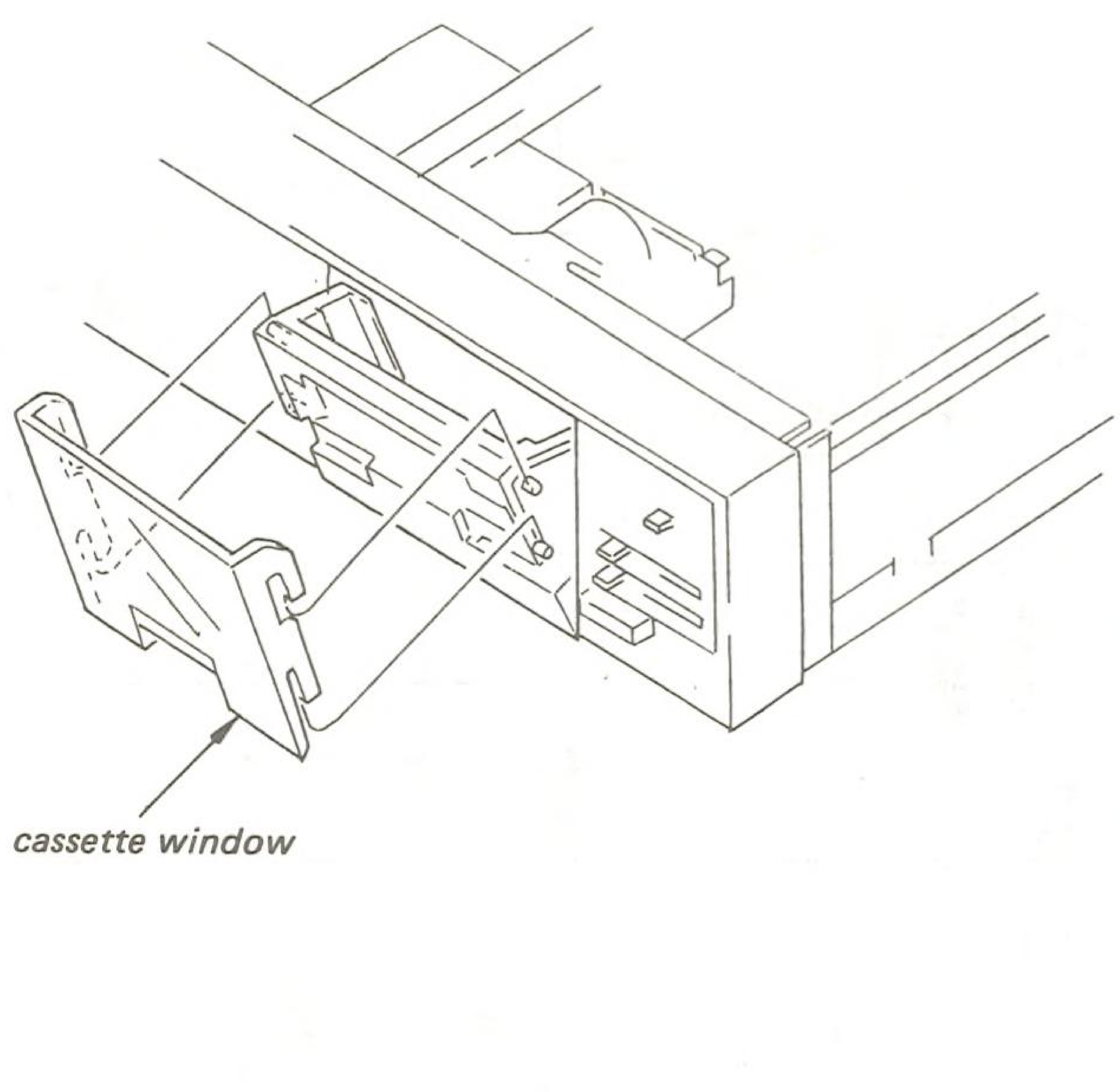
FRONT PANEL



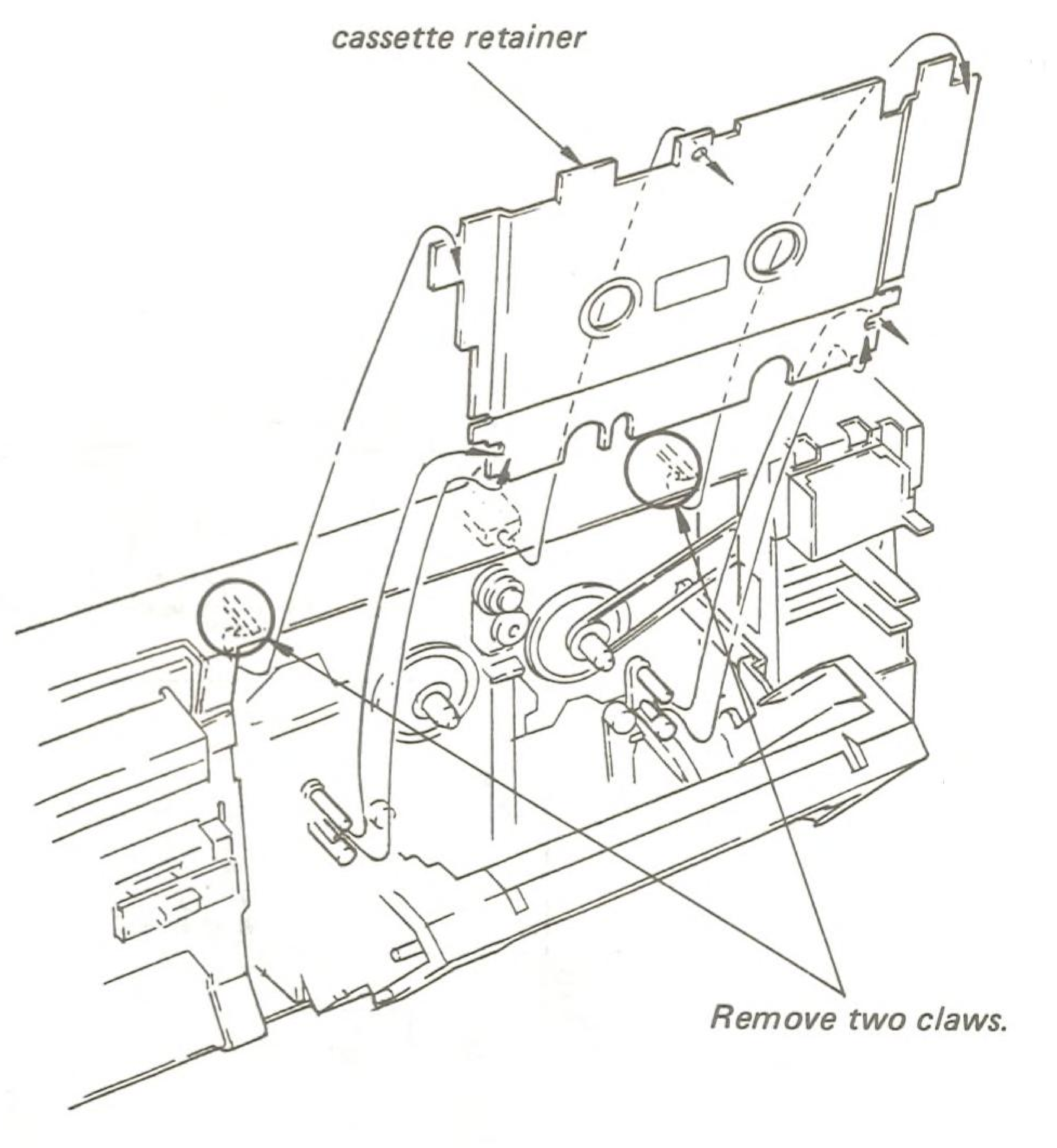
CONTROL PANEL



CASSETTE WINDOW

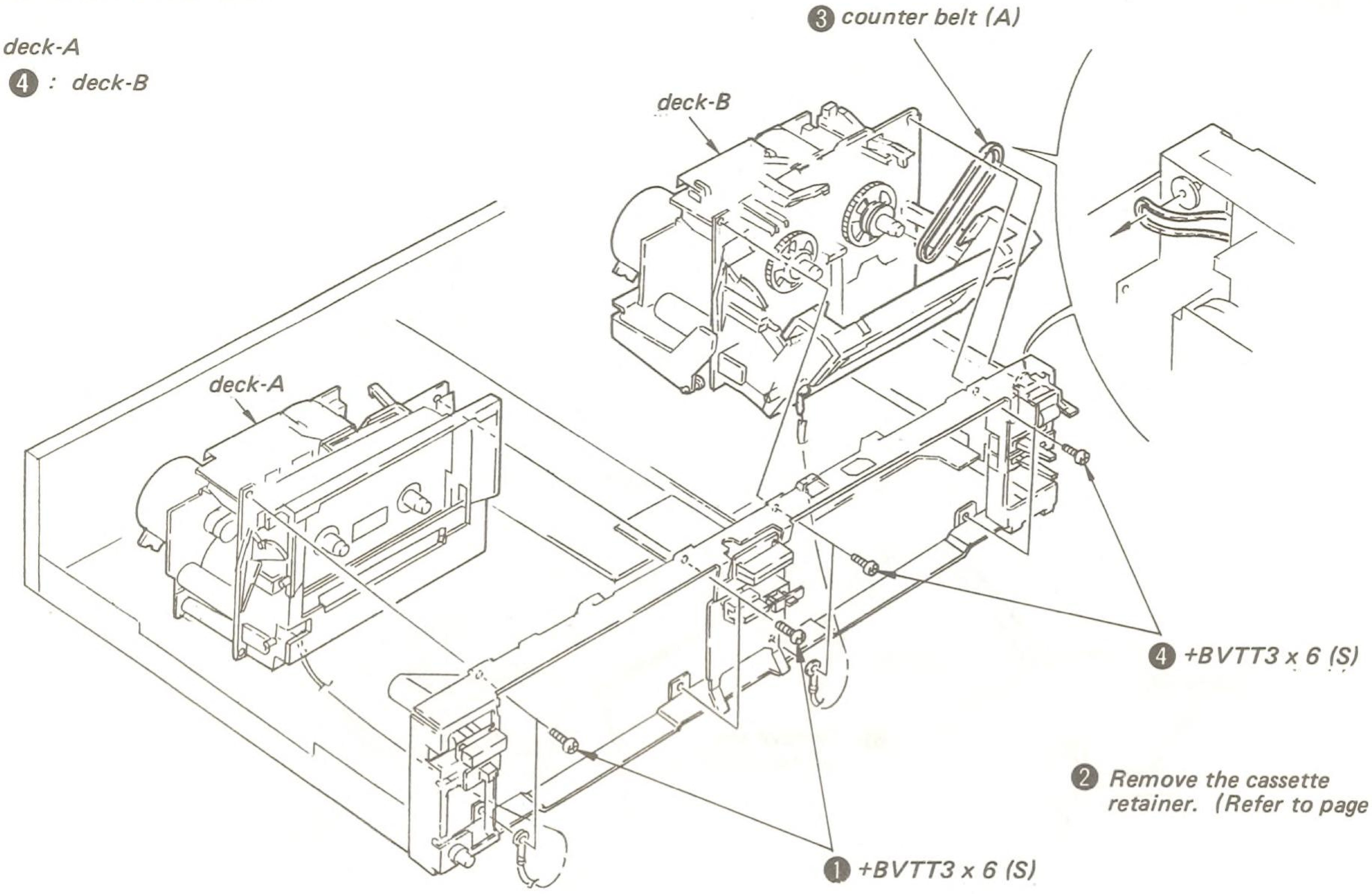


CASSETTE RETAINER



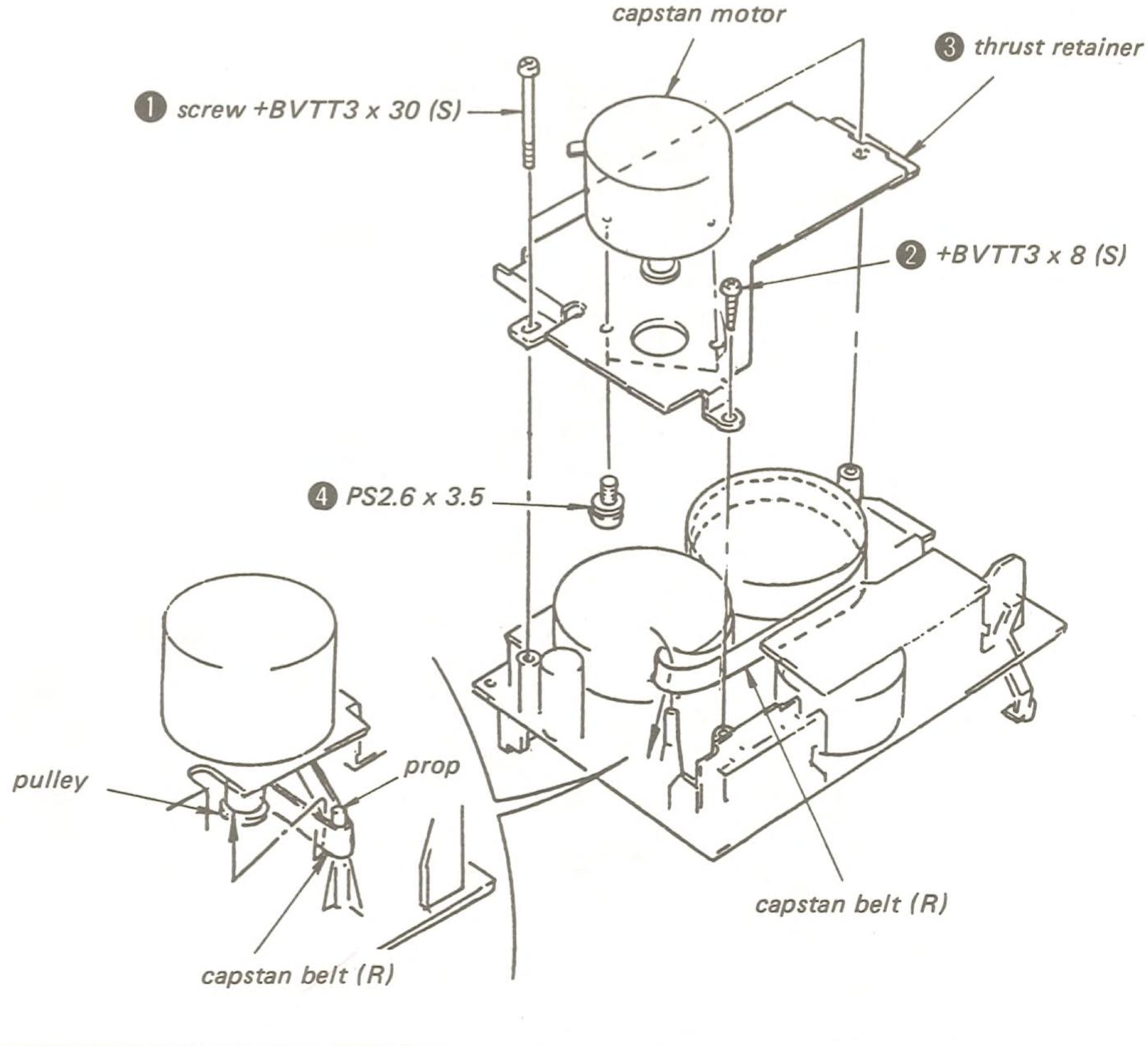
MECHANISM SECTION

❶ : deck-A
❷ — ❹ : deck-B

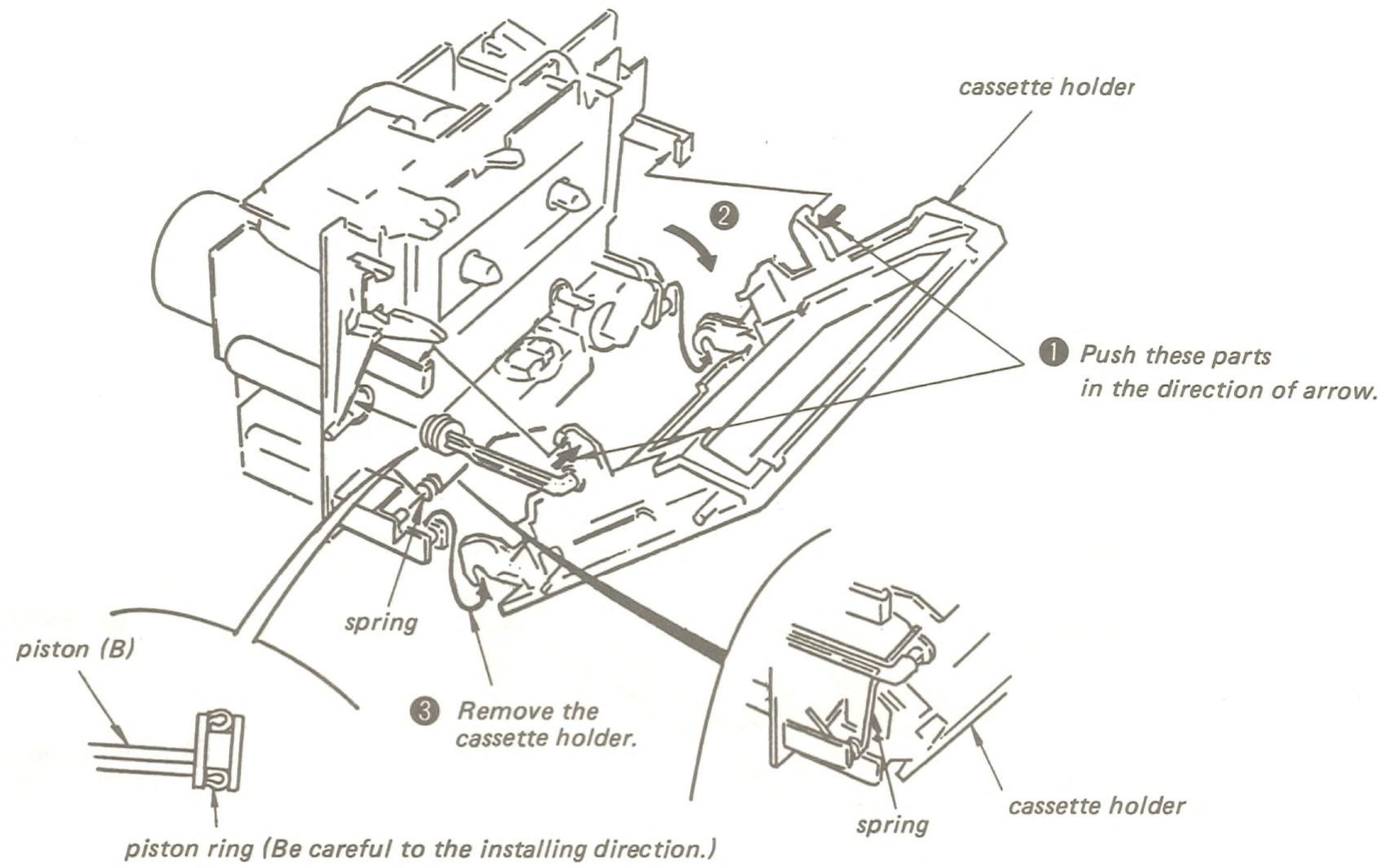


CAPSTAN MOTOR/CAPSTAN BELT

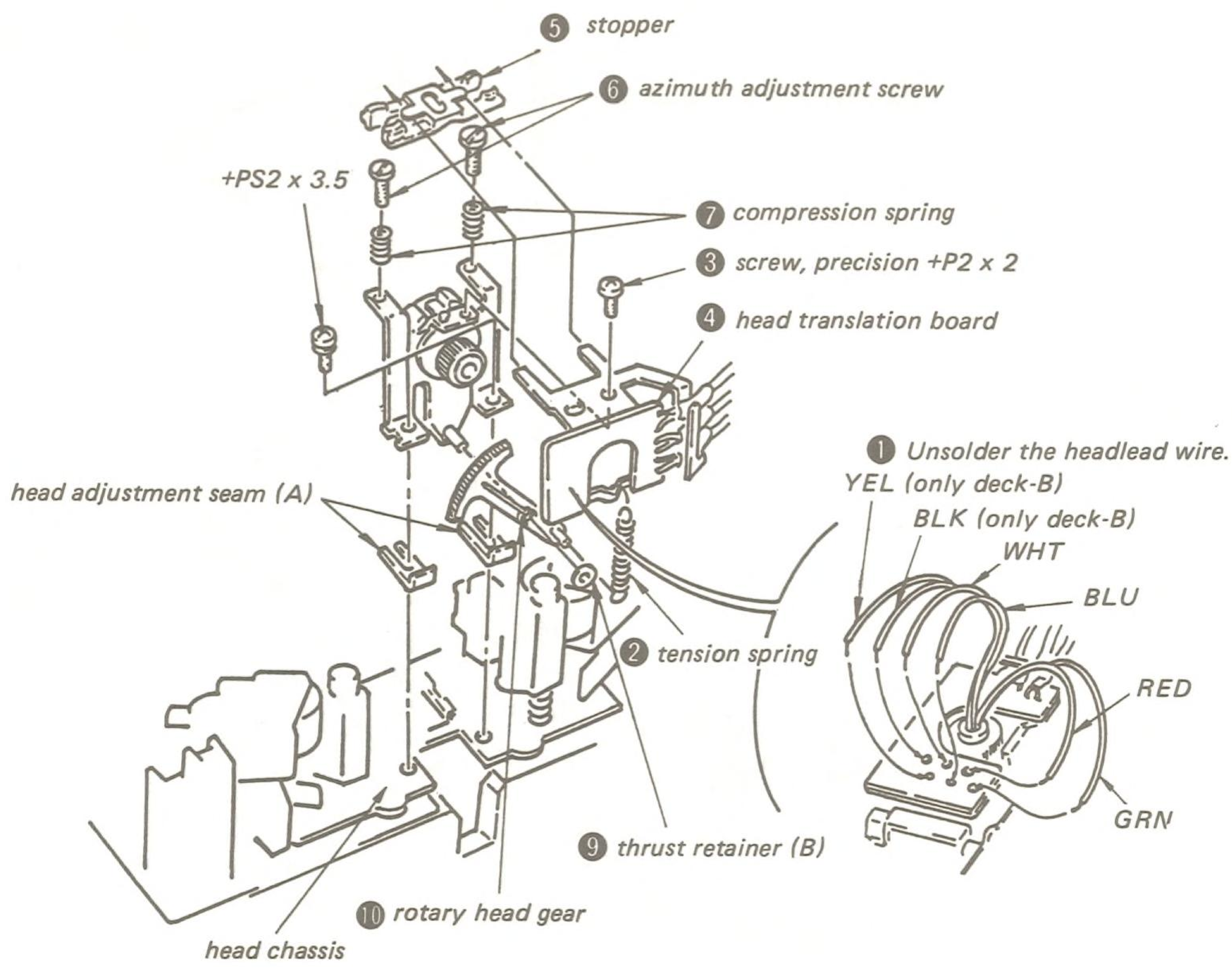
Note for installation.
1. *Hook the capstan belt (R) to the prop.*
2. *Install the motor section and then hook the capstan belt (R) to the pulley.*



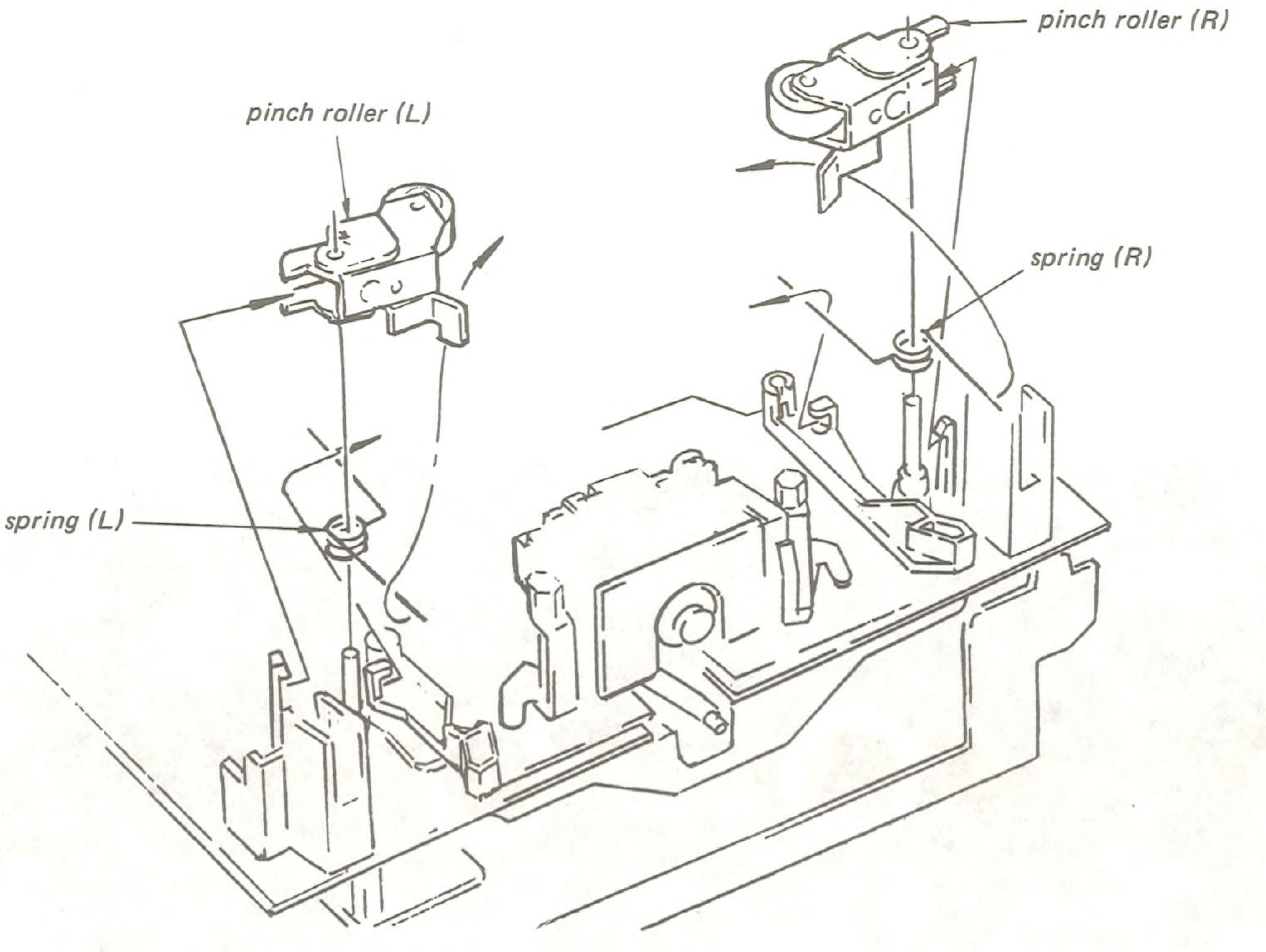
CASSETTE HOLDER



HEAD UNIT

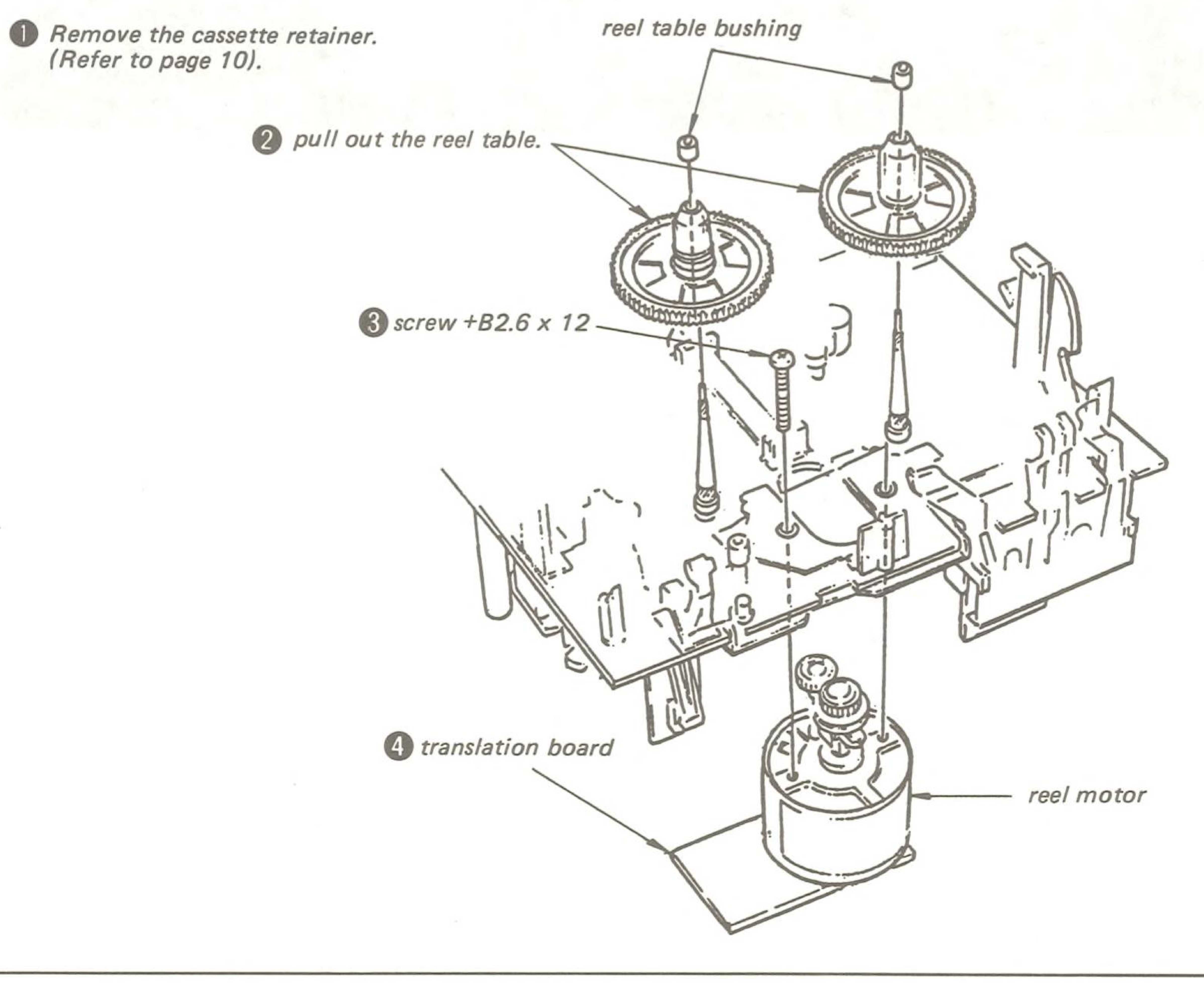


PINCH ROLLER



REEL MOTOR

❶ *Remove the cassette retainer. (Refer to page 10).*



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

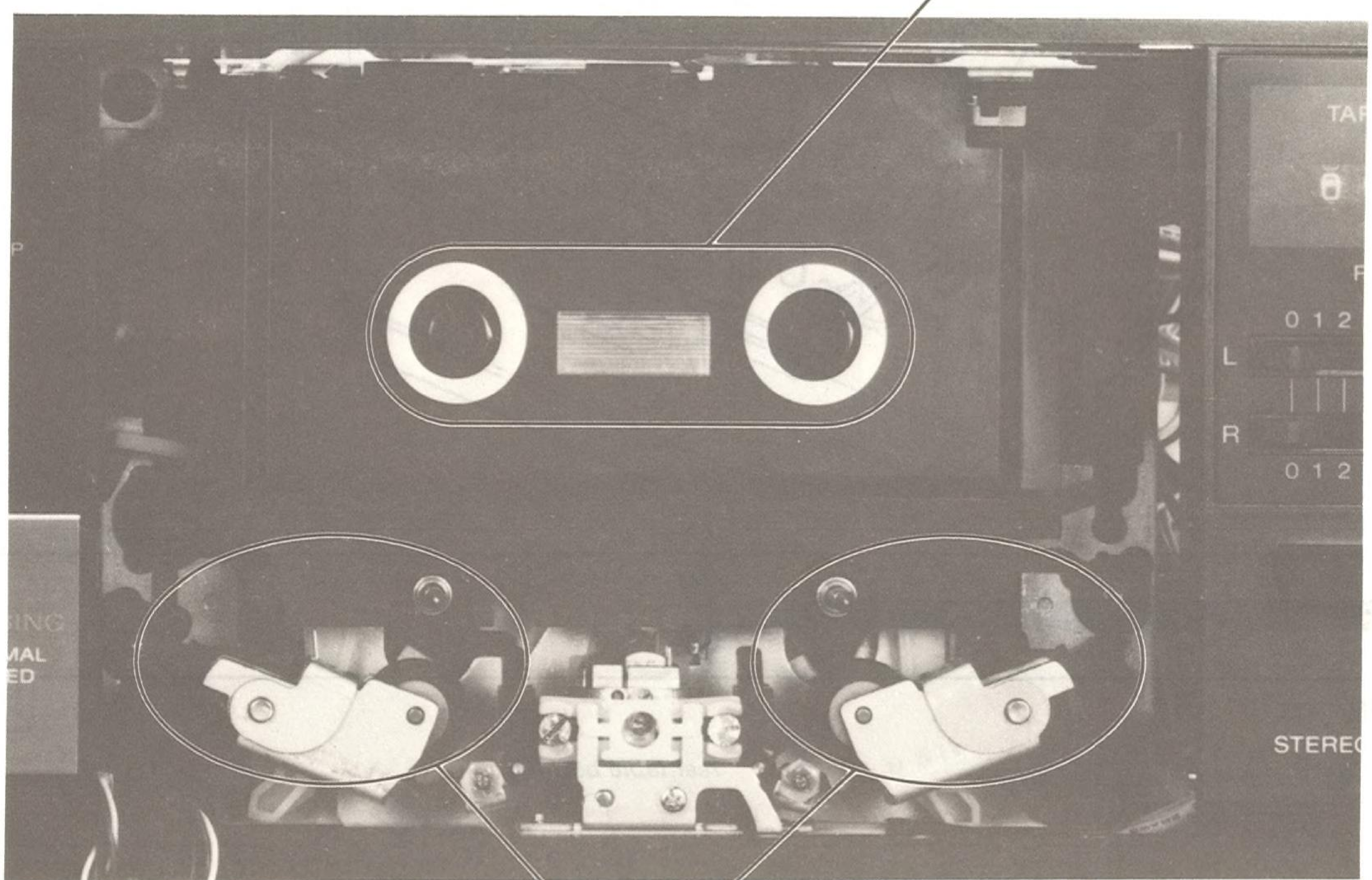
PRECAUTION

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

   recorded/playback head
   erase head
   capstan
   pinch roller
   rubber belts

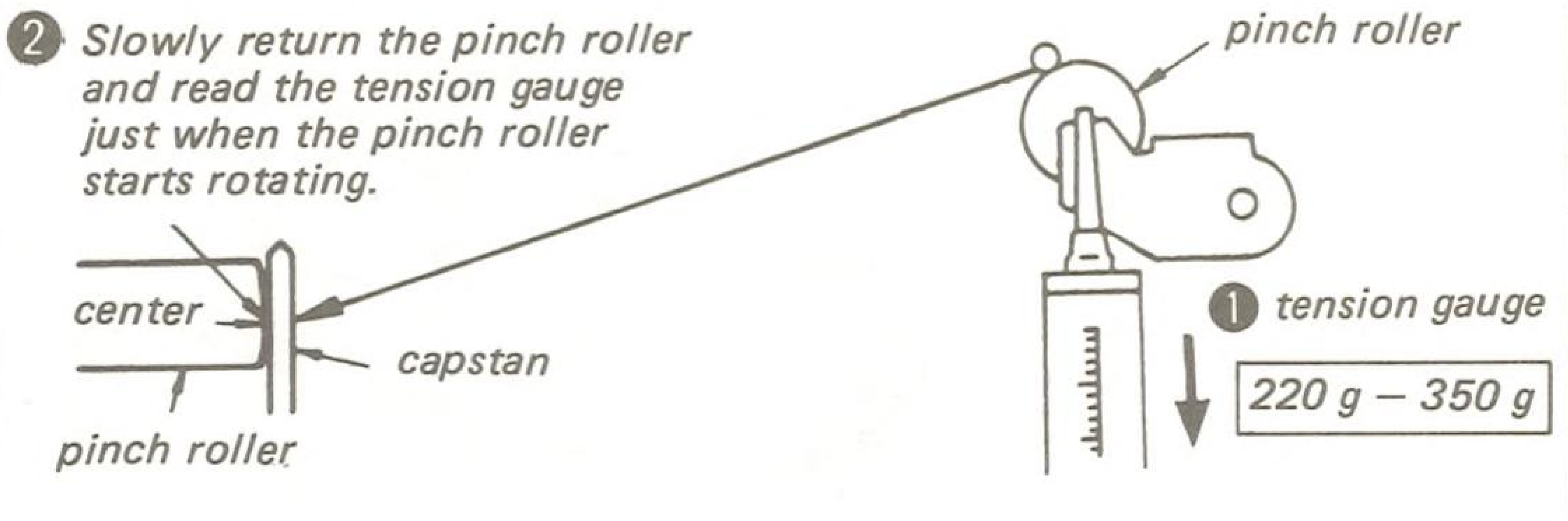
Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30 – 60g•cm
REV	CQ-102RB	
FF/REW	CQ-201B	90 – 150g•cm



Pinch Roller Pressure Adjustment

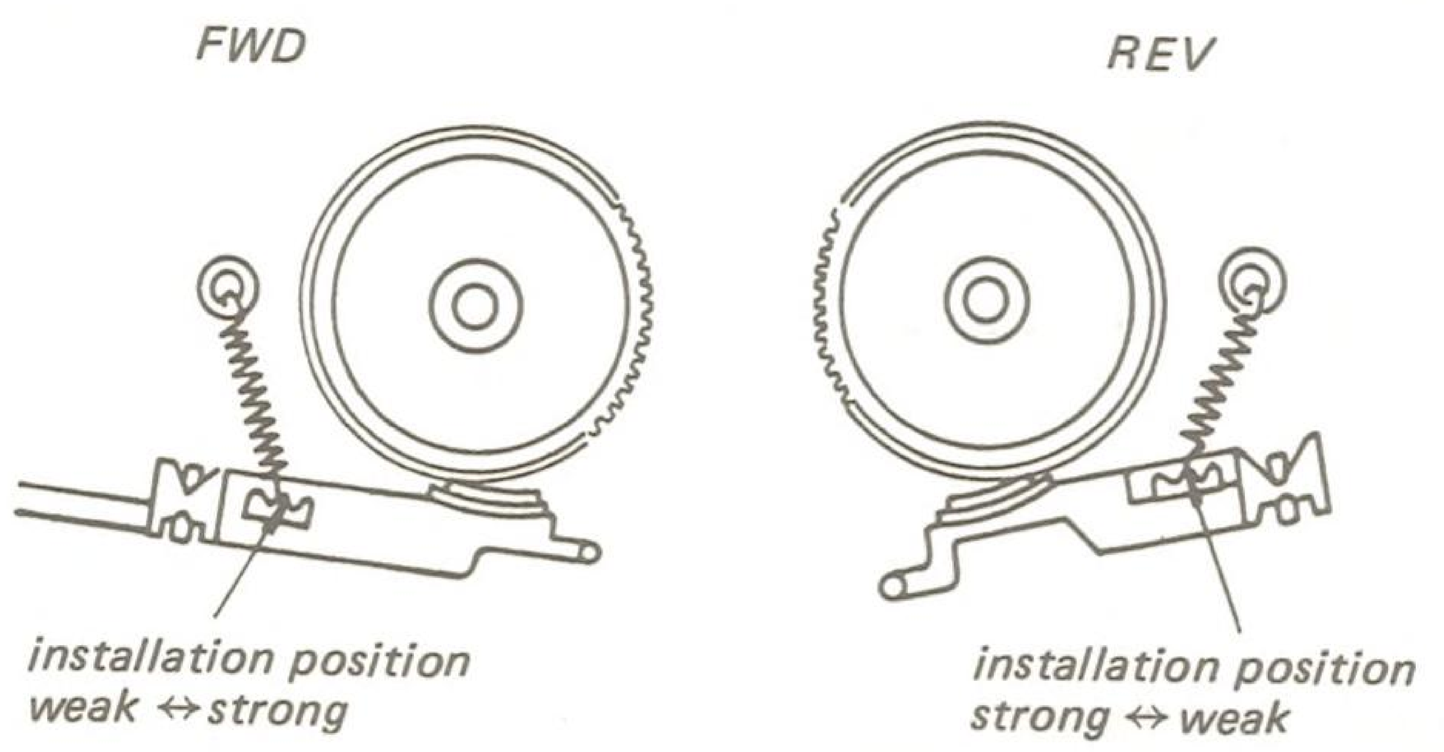
– Playback Mode –

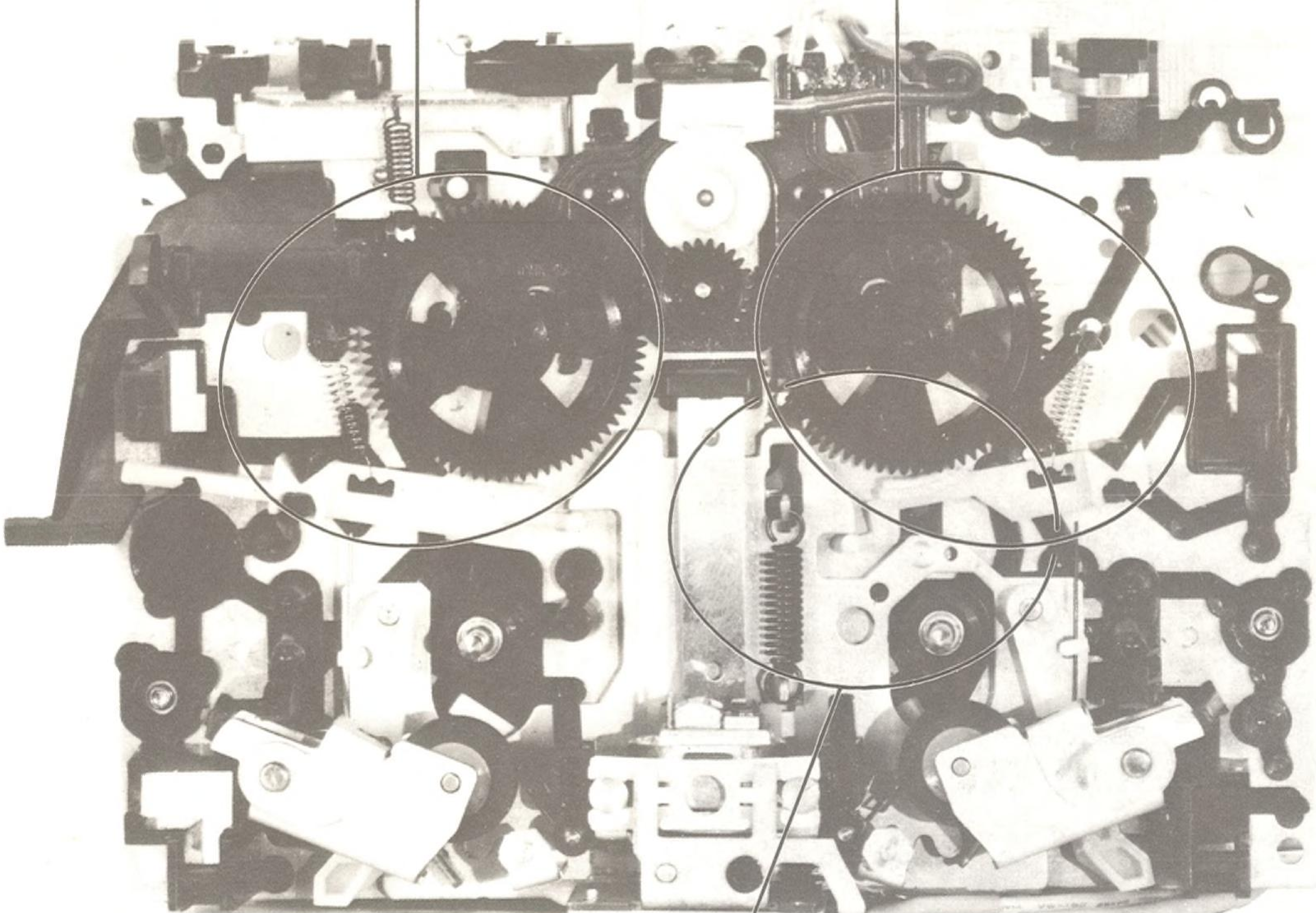


Back Tension Adjustment

– FWD playback or REV playback –

Mode	Torque meter	Meter reading
FF	CQ-102C	2.5 – 4.5g•cm
REV	CQ-102PB	2.5 – 4.5g•cm

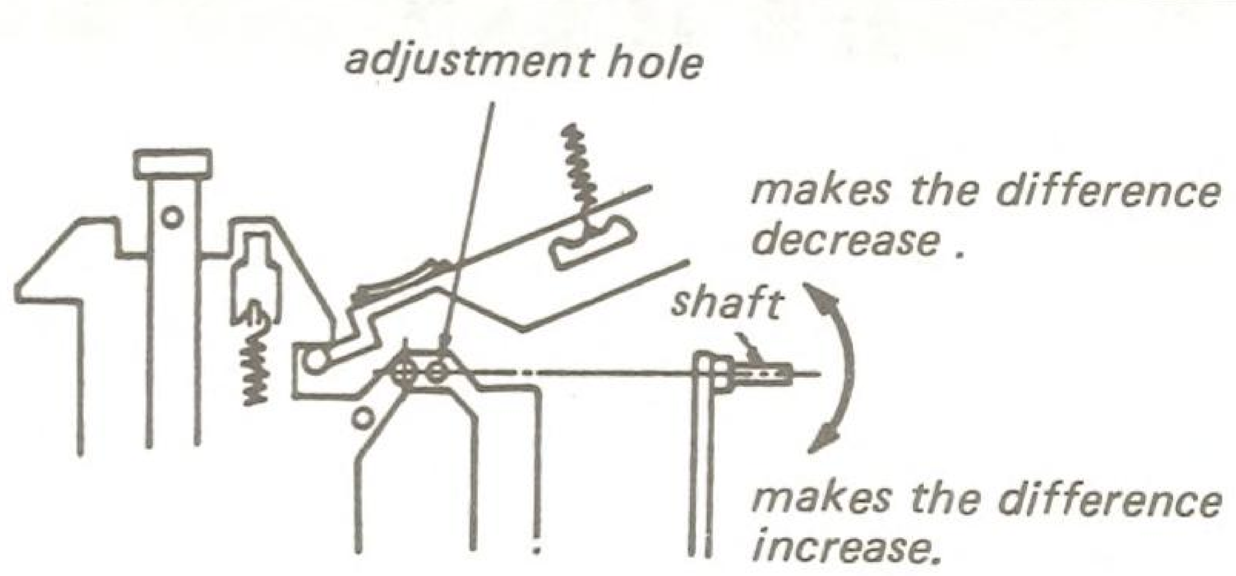




Head Position Adjustment

– FWD pause, REV pause, AMS –

1. Confirm that the head position difference between STOP mode and FWD pause, REV pause or AMS mode is 2 mm ±0.1 mm.
2. If the specification is not satisfied, adjust by bending the shaft in the figure.

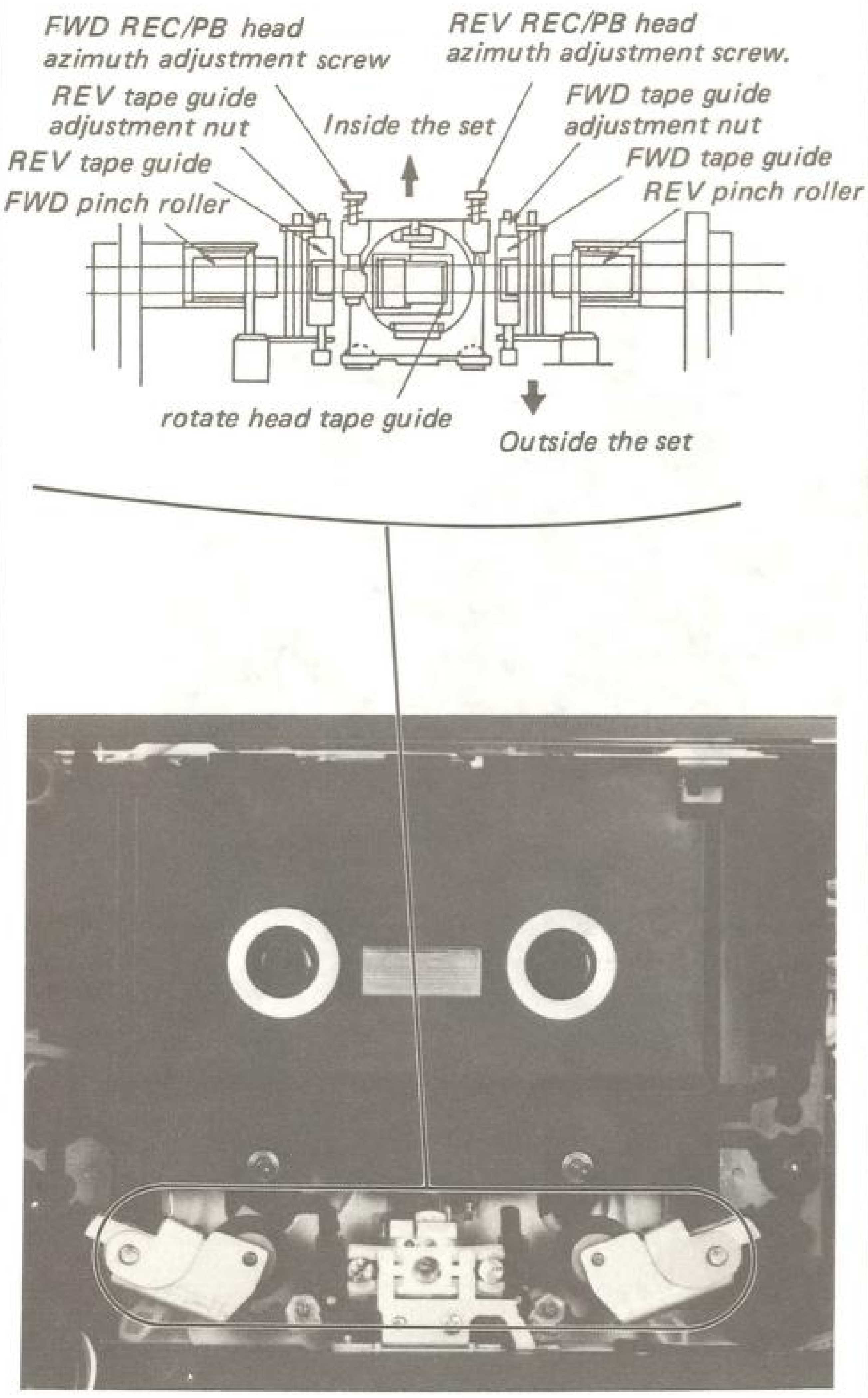


Tape Path Adjustment

Procedure:

1. Insert the mirror cassette (CQ-009 or CQ-012C).
2. Mode: FWD
   Adjust FWD tape guide nuts and adjustment shims for no tape curl.
3. Mode: REV
   Adjust REV tape guide nuts and adjustment shims for no tape curl.
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:



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3-2. ELECTRICAL ADJUSTMENTS

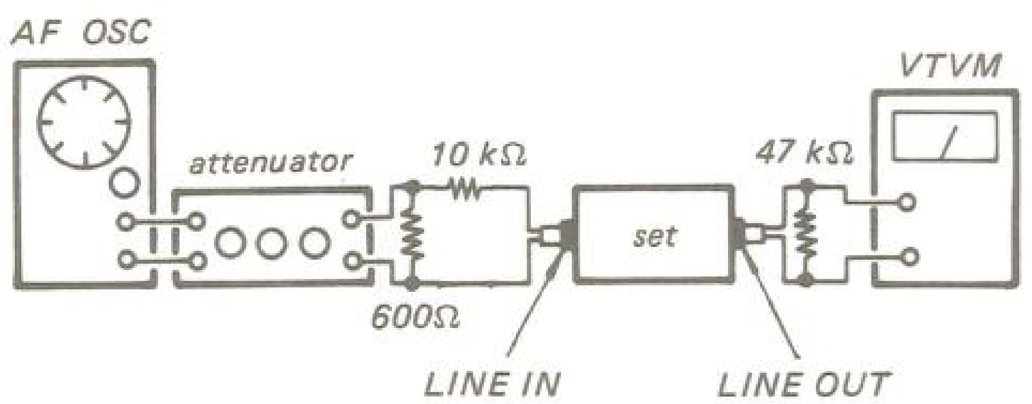
1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed 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
  TIMER switch: OFF

- 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)

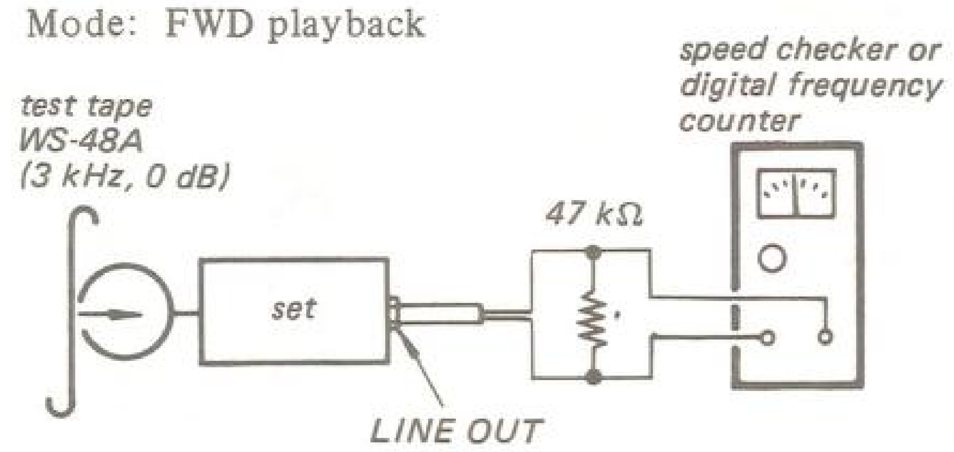
Standard Output Level

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

Tape Speed Adjustment

Procedure:

Mode: FWD playback



1. Connect Q845 base to the ground with the lead wire.

Specification: high speed

Speed checker	Digital frequency counter
–1 – +1%	5,940 Hz – 6,060 Hz

Frequency difference between the beginning and the end of the tape should be within 0.8% (48 Hz).

Adjustment location:

DECK-A side RV851
DECK-B side RV871

2. Remove the wire in step 1.

Specification: normal speed

Speed checker	Digital frequency counter
–1 – +1%	2,970 Hz – 3,030 Hz

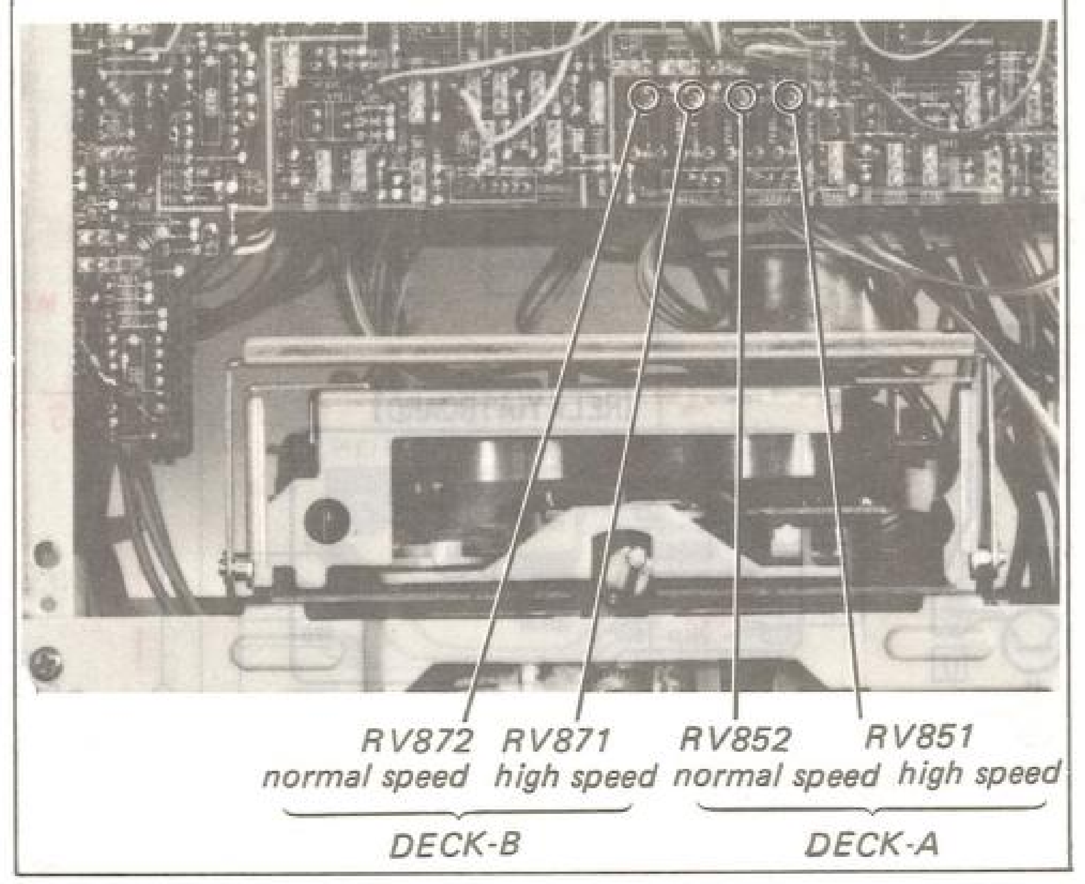
Frequency difference between the beginning and the end of the tape should be within 0.8% (25 Hz).

Adjustment location:

DECK-A side RV852
DECK-B side RV872

3. If the specifications are not satisfied, repeat step 1 and 2.

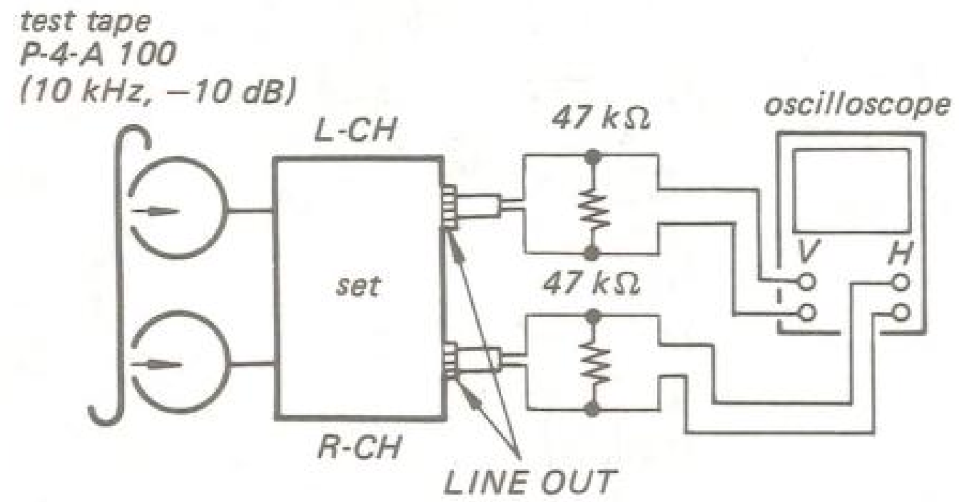
Adjustment Location: System control board.



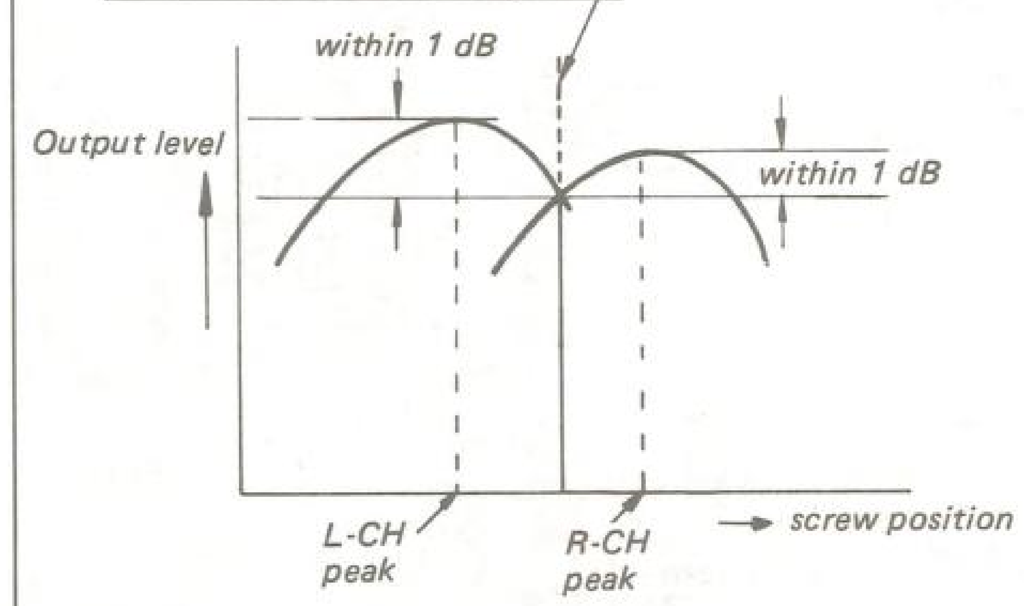
Record/Playback Head Azimuth Adjustment

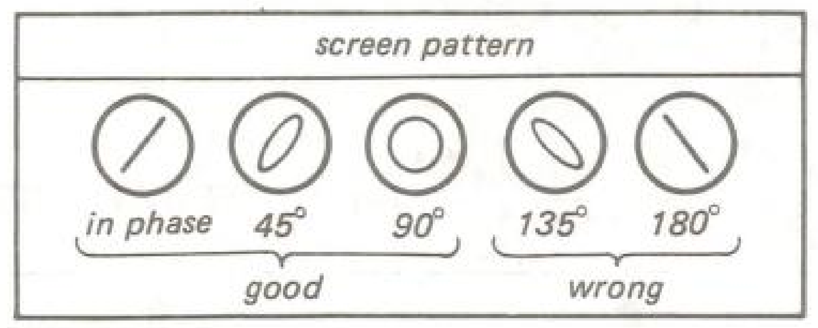
Procedure:

1. Mode: FWD playback

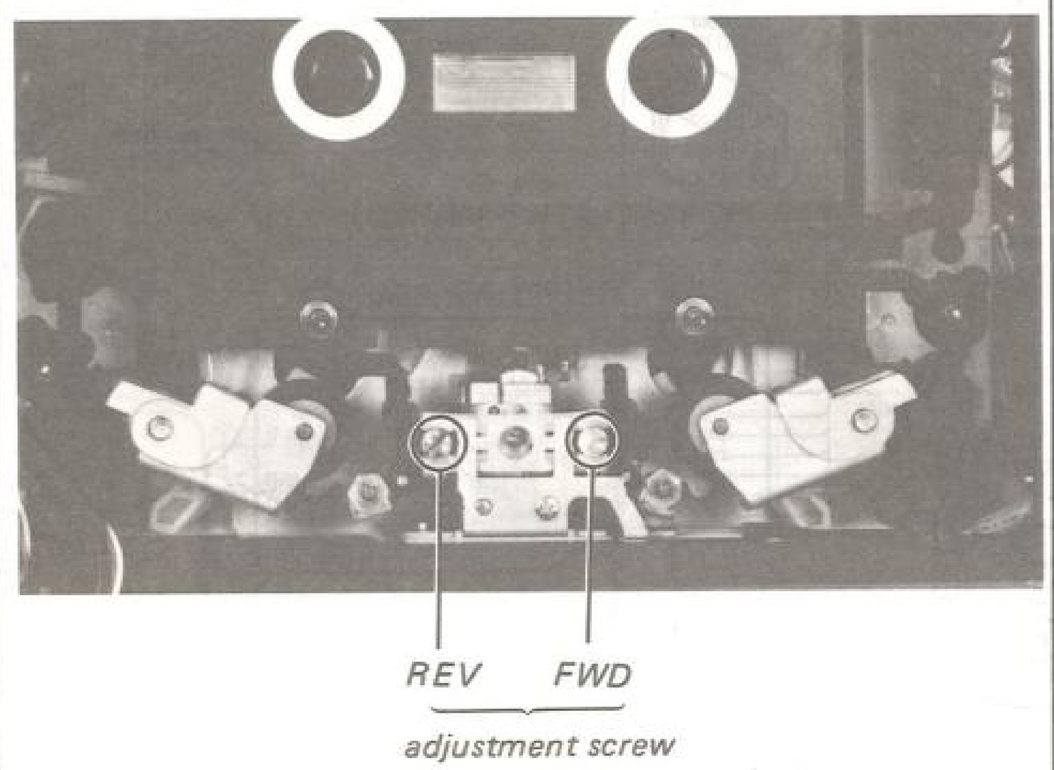


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





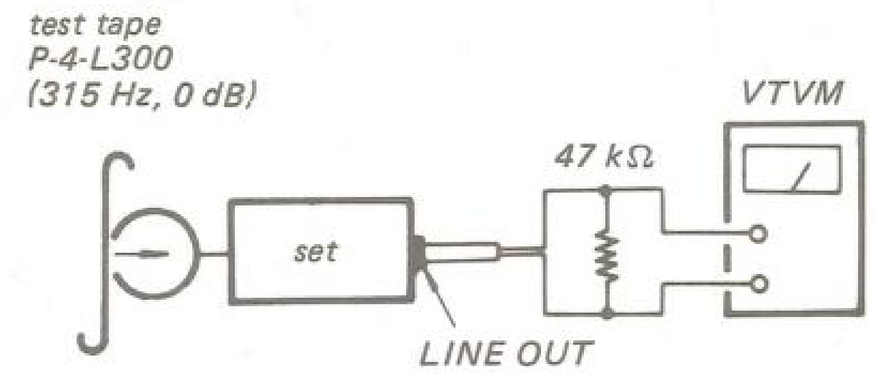
3. Mode: REV
   Repeat step 1 and 2.
4. After the adjustments, apply suitable locking compound to the parts adjusted.



Playback Level Adjustment

Procedure:

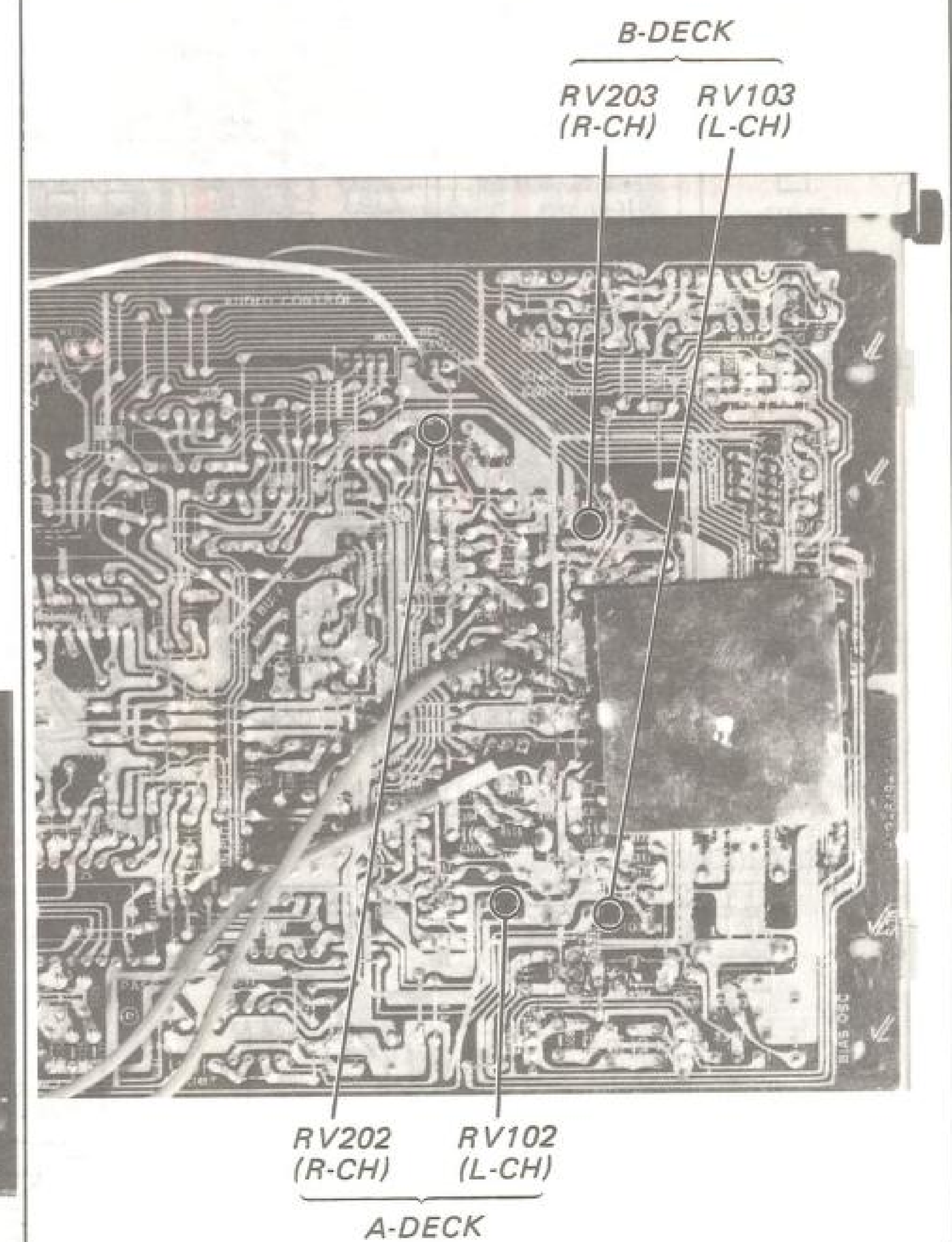
Mode: FWD playback



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 – 0.46 V
(–5.5 – –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.



 TC-W7R

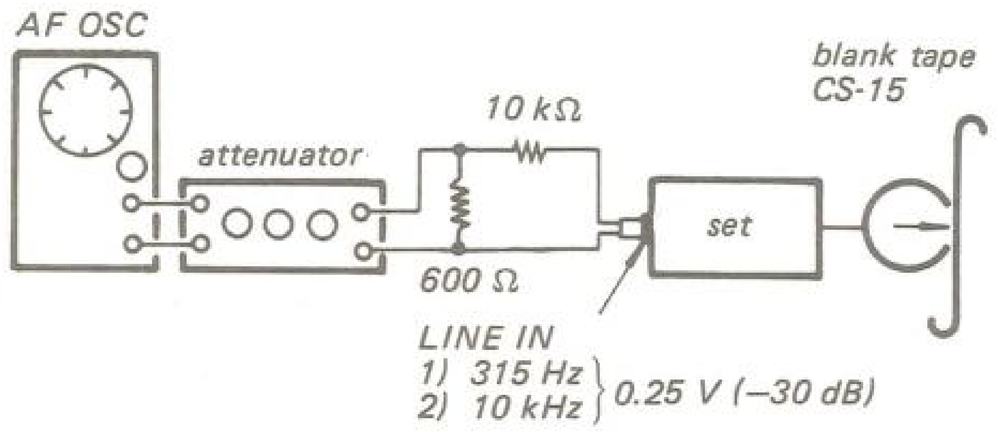
Record BIAS Adjustment

Setting:

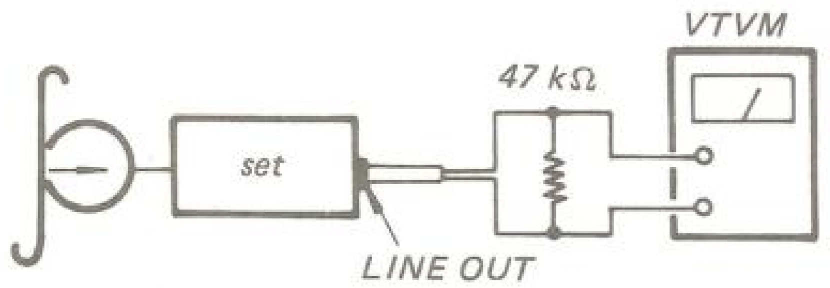
REC LEVEL control: standard record
(See page 17)

Procedure:

1. Mode: record



2. Mode: playback



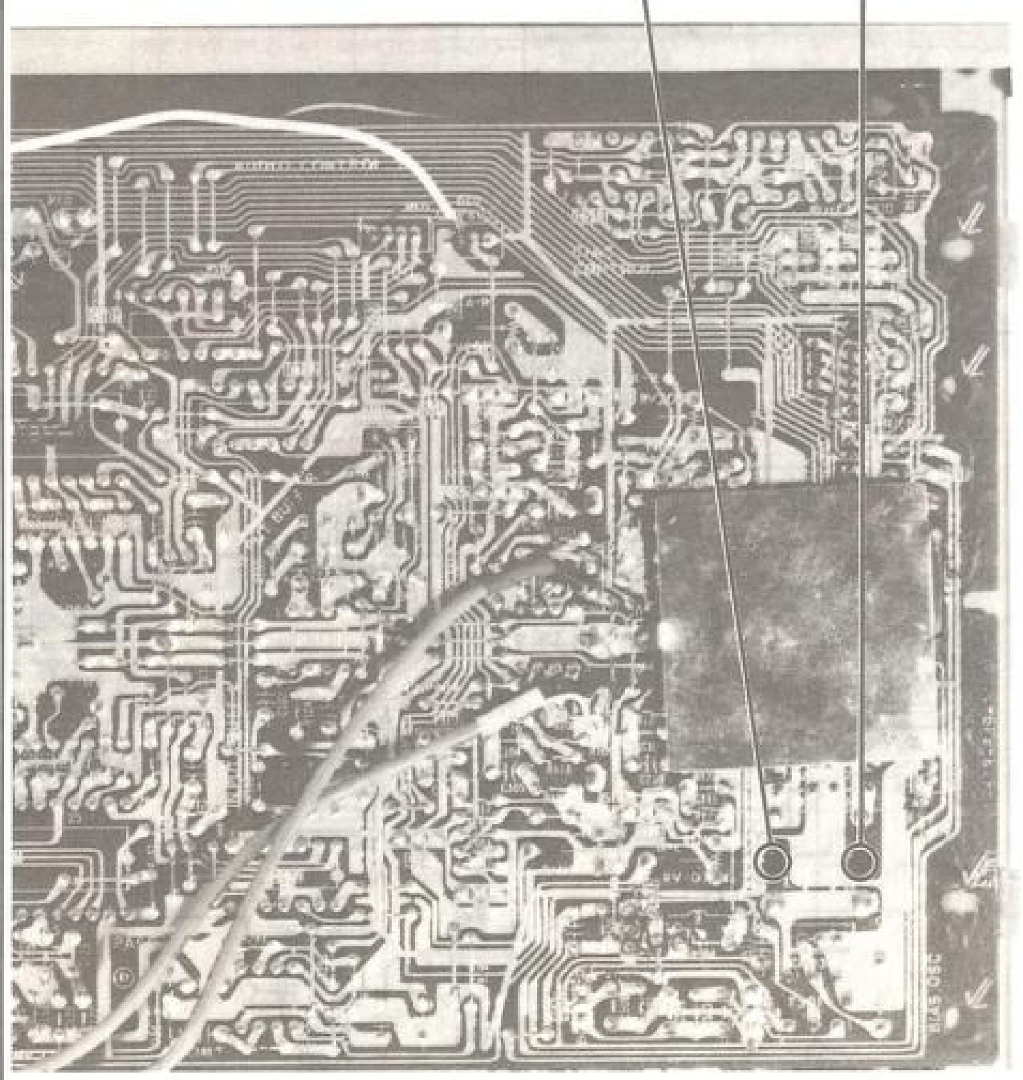
Play back the tape recorded in step 1. If the specification is not satisfied, adjust CT501-1 (L-CH), CT501-2, (R-CH) and repeat steps 1 and 2.

Specification:

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

Adjustment Location: audio board

CT501-1 (L-CH) CT501-2 (R-CH)



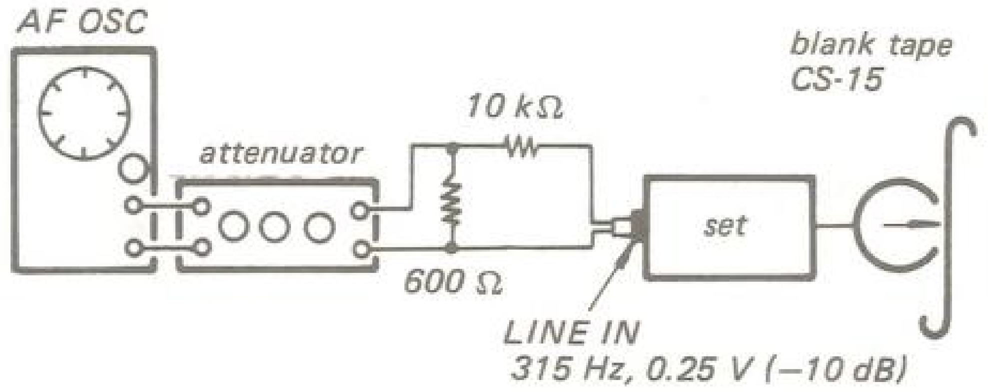
Record Level Adjustment

Setting:

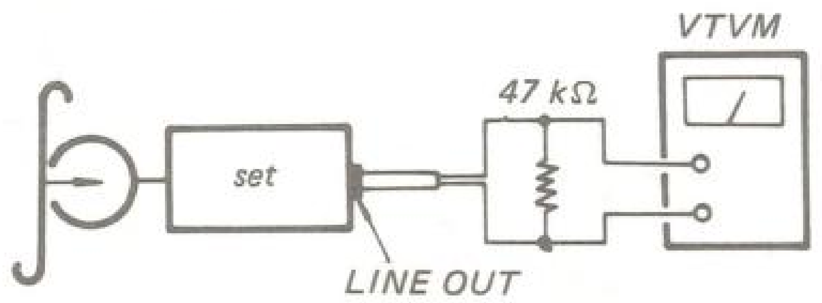
REC LEVEL Control: standard record
(See page 17)

Procedure:

1. Mode: record



2. Mode: playback



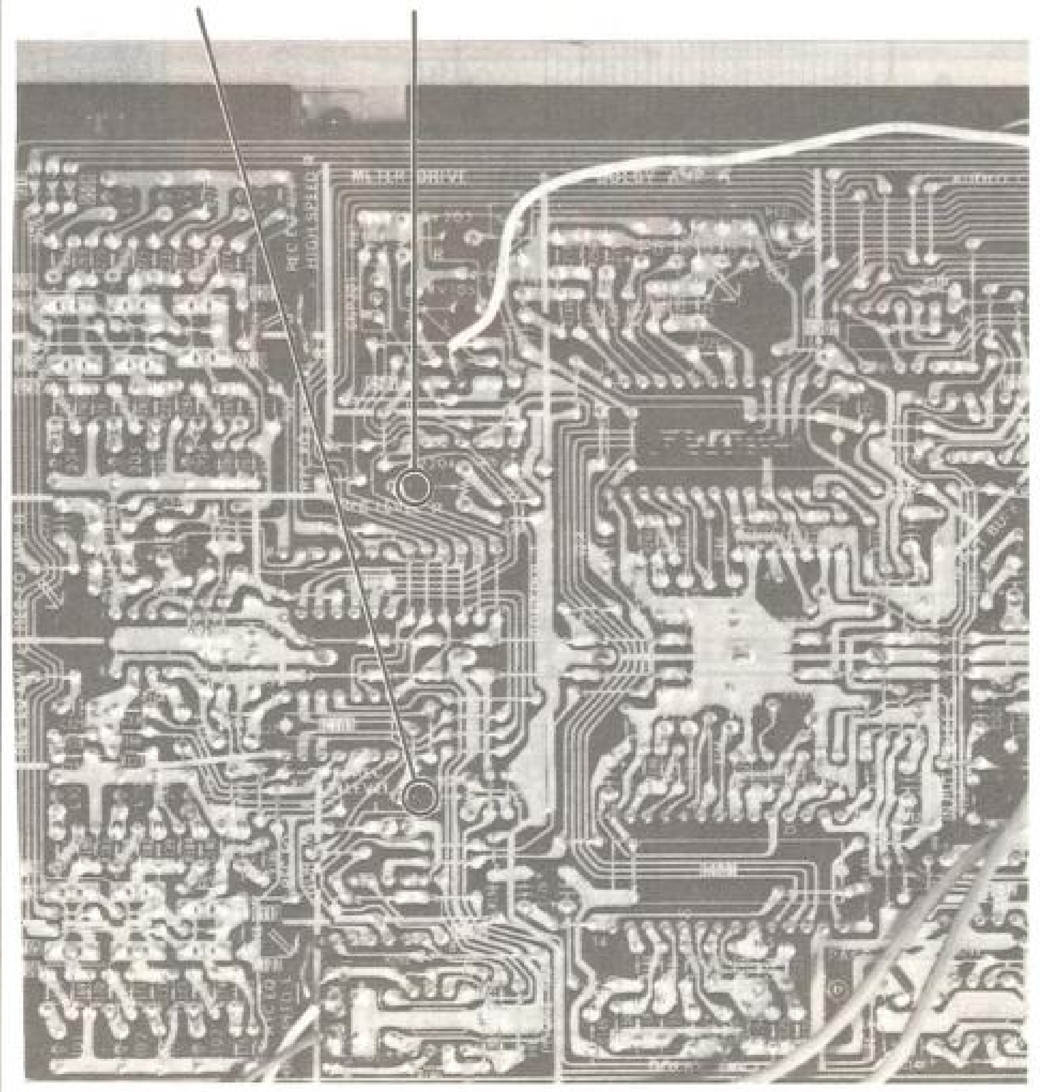
Play back the tape recorded in step 1. If the specification is not satisfied, adjust RV104 (L-CH) RV204 (R-CH) and repeat steps 1 and 2.

Specification:

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

Adjustment Location: audio board

RV104 (L-CH) RV204 (R-CH)

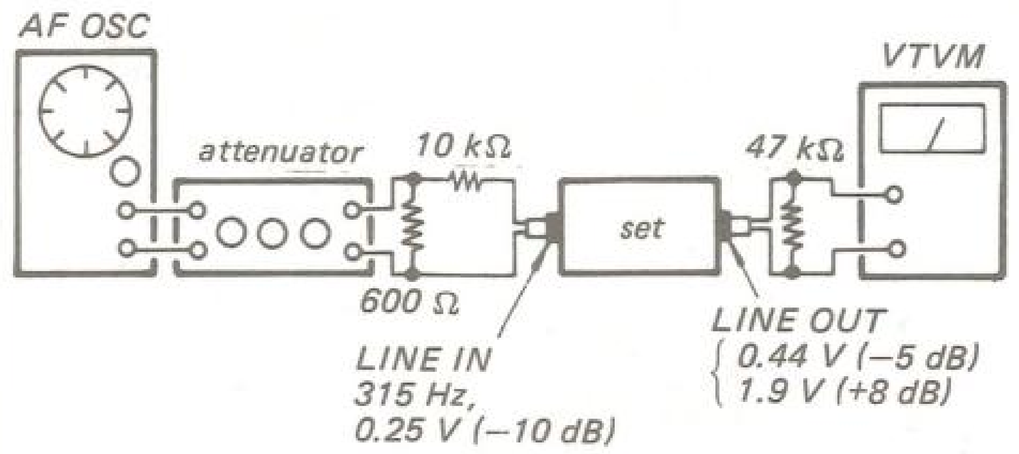


Level Meter Adjustment

Procedure:

Mode: record

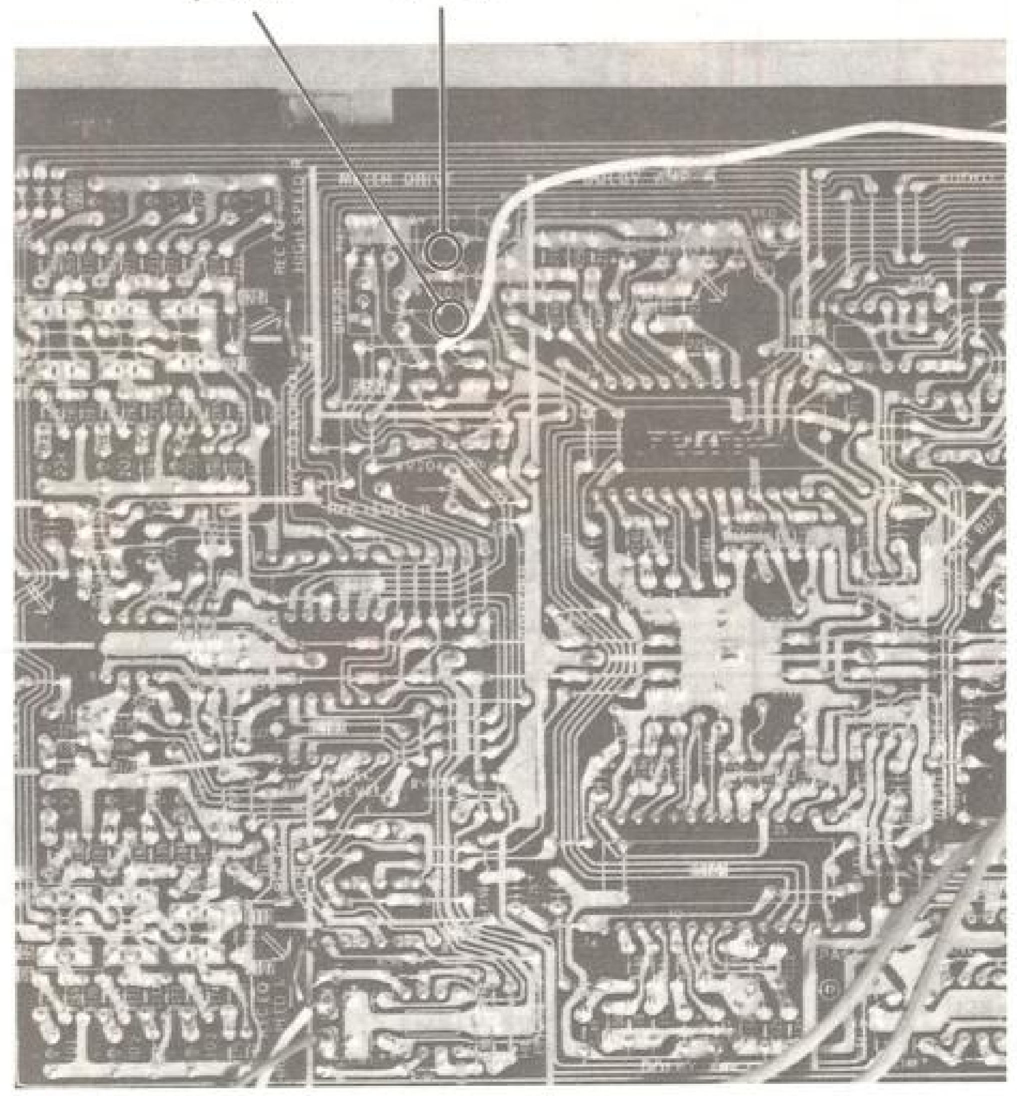
1. Connect Q829 base to the ground with the lead wire.



2. Set REC LEVEL control for –5 dB LINE OUT level.
3. Adjust RV105 (L-CH), RV205 (R-CH) so that level meter –4 dB segment lights up.
   Note: Adjust while increasing level.
4. Set REC LEVEL control for +8 dB LINE OUT level and confirm that all the level meters lights up.
5. Remove the lead wire in step 1.

Adjustment Location: audio board

RV105 (L-CH) RV205 (R-CH)

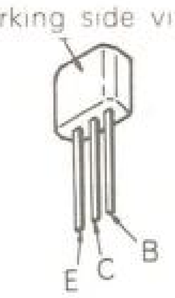


- **Semiconductor Lead Layouts**

2SB808
DTA114ES
DTA144ES
DTC114ES
DTC143TS
2SC2603F

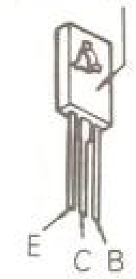
2SA1175
2SC2785E
2SD1020

Marking side view

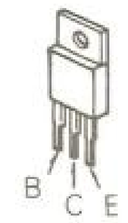


2SD414-R

Marking side view

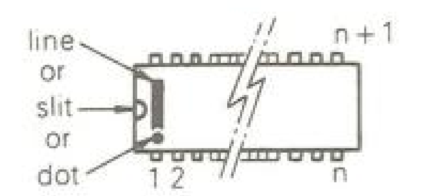


2SD1406



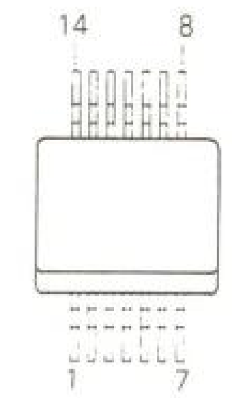
PH102

CX10035
CX20027
CX20028
HD14011BP
HD14023BP
IR2E02
M50761-412P
M50784SP
MB84011B
MB88421-160M
MB8844-1341K
NJM2043D-D
μPC4558C
μPD4001BC
μPD4066BC

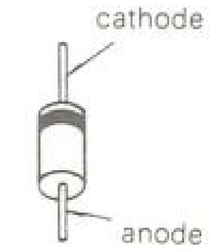


(Top view)

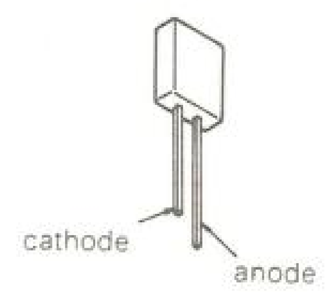
TC4066BF
TC4069UBF



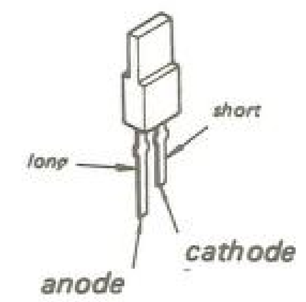
11E2
1SS202-1



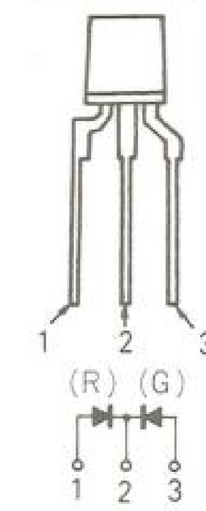
GL9ND12



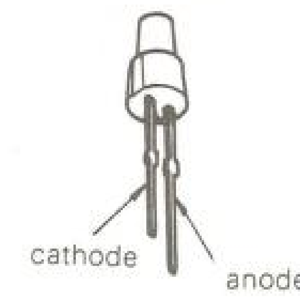
GL9NG2



GL9NG260



GL9HY22



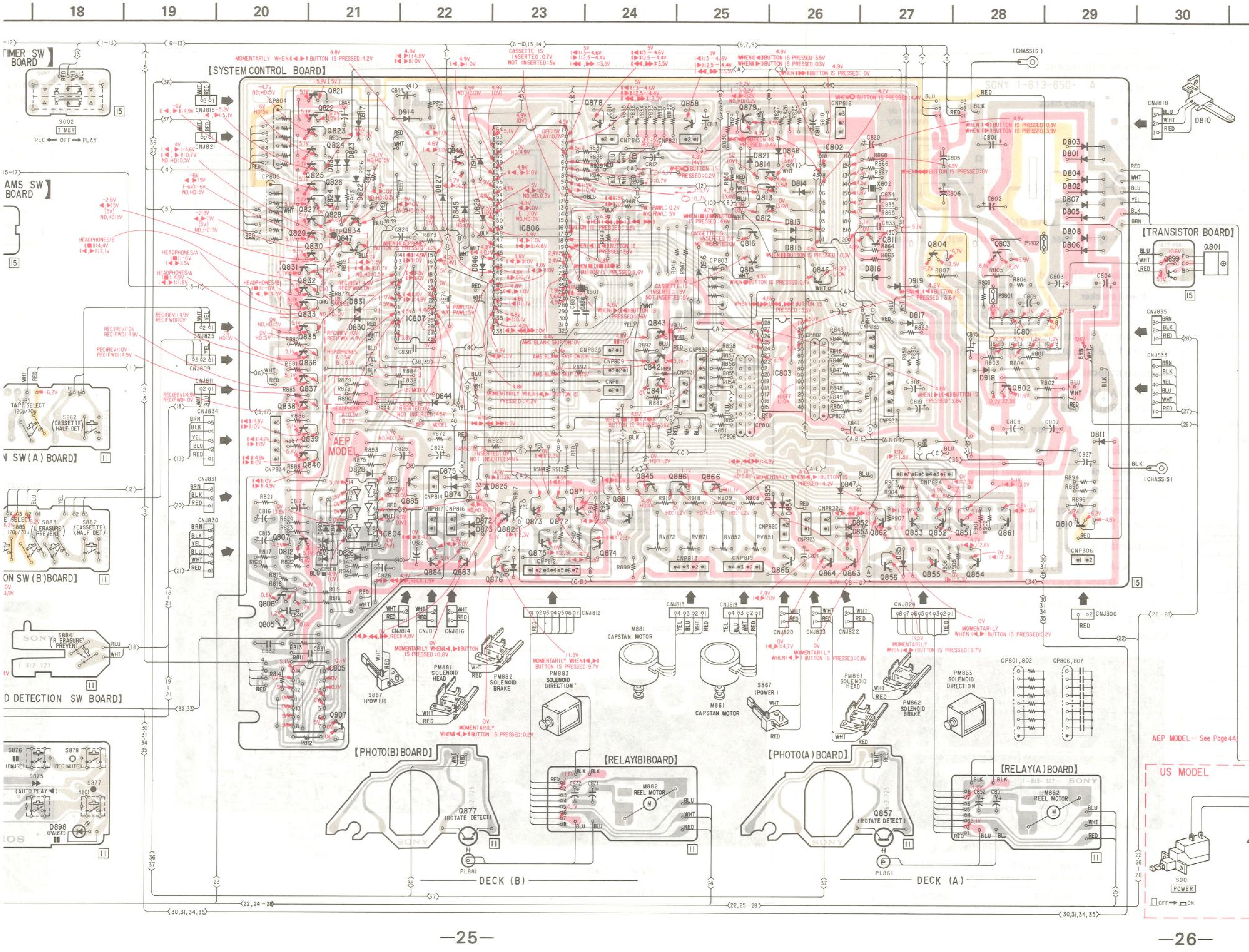
SECTION 4
DIAGRAMS

US MODEL: (Serial No. Up to 802,000)
AEP MODEL: (Serial No. Up to 500,200)

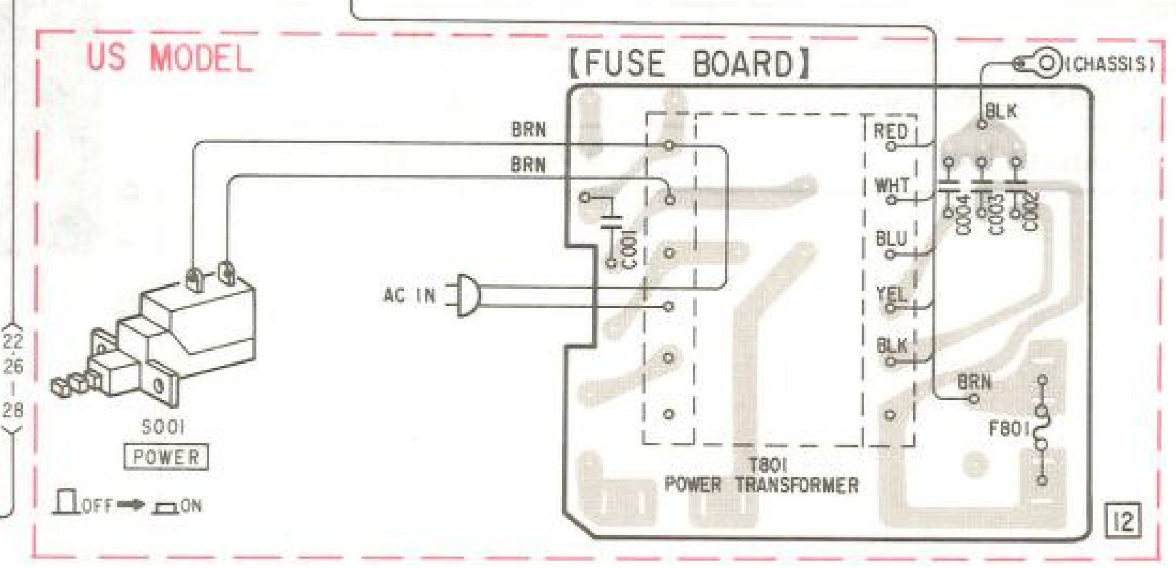
4-1. MOUNTING DIAGRAM

- See page 46 for notes.
- See page 21 for Semiconductor Lead Layouts.


10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
REMOTE CONTROL BOARD
DUBBING CONTROL (A) BOARD
MODE SW BOARD
TIMER SW BOARD
SYSTEM CONTROL BOARD
DOLBY SW BOARD
DUBBING SW BOARD
AMS SW BOARD
LED (A) BOARD
DETECTION SW (A) BOARD
DUBBING CONTROL (B) BOARD
DETECTION SW (B) BOARD
LED (B) BOARD
RECORD DETECTION SW BOARD
CONTROL SW (A) BOARD
CONTROL SW (B) BOARD
PHOTO (B) BOARD
RELAY (B) BOARD
PHOTO (A) BOARD
DECK (B)
AEP MODEL
M881 CAPSTAN MOTOR
M861 CAPSTAN MOTOR
M882 REEL MOTOR
PM881 SOLENOID HEAD
PM882 SOLENOID BRAKE
PM883 SOLENOID DIRECTION
Q877 (ROTATE DETECT)
PL881

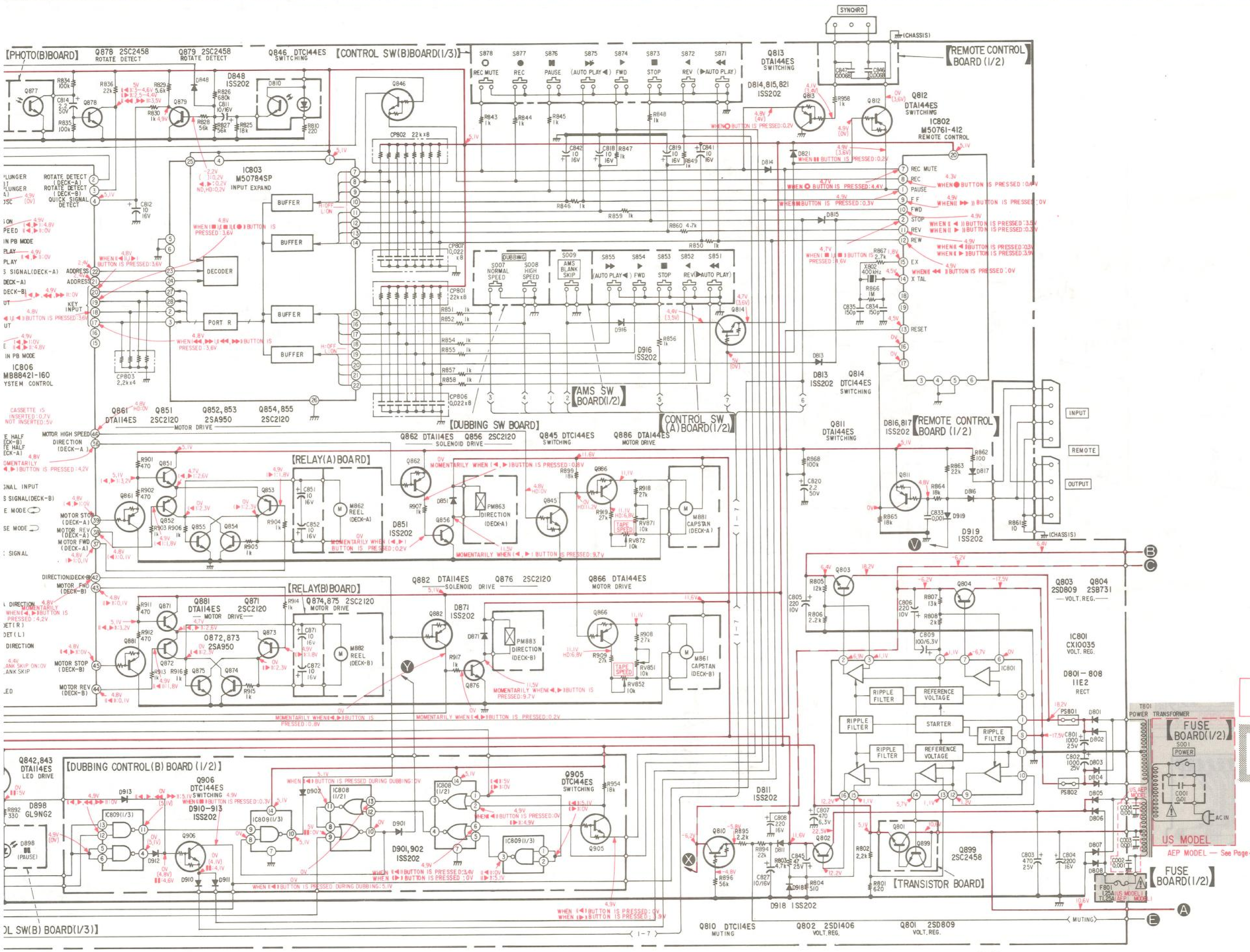


Q, IC	D
821	
822 878 858 879	914
823	917
824	915 848 803
825	832, 823, 821 801
844 814	822 804
826 IC802 813	814 802
827	824 827
IC806 812	845 813 807
	815 805
828, 834	829
829 816 811	808
847	846 806
830 815 804, 803	
831	916
846	816 919
832 IC807	
833	831
	830
835 843 IC801	817
836 842	
IC803	
837	918
841 802	
838	844
839	811
840	
885 845, 886, 866	875 825 847
IC804	874
882, 873, 872, 871 881	835, 834
862, 853, 852, 851, 861, 810	872 852
807 875, 874	873 853
865, 864, 863, 856, 855, 854	812 826 851
884, 883, 876	871
806	
805	
907	
IC805	




SYSTEM CONTROL BOARD
DUBBING CONTROL (A) BOARD
PHOTO (A) BOARD
TIMER SW BOARD
MODE SW BOARD
DETECTION SW (A) BOARD (1/2)
DETECTION SW (B) BOARD (1/3)
CONTROL SW (A) BOARD (1/2)
CONTROL SW (B) BOARD (1/2)
HEADPHONE SW BOARD
DUBBING SW BOARD
SLIDE SW (A) BOARD
SLIDE SW (B) BOARD
REC DETECTION SW BOARD
DUBBING CONTROL (B) BOARD (1/2)
AMS SW BOARD (1/2)
AEP MODEL
IC804 HD14069UBP INVERTER
IC807 MB8844-134 SUB SYSTEM CONTROL
IC810 HD14011BP DUBBING CONTROL
IC811 HD14023BP DUBBING CONTROL
IC805 TC4066BF SWITCHING
IC804 TC4069UBF INVERTER
Q805,806 2SC2785E AMS AMP
Q807 2SA1175 AMS AMP
Q907 DTC144ES MUTING
Q902–904 DTC144ES SWITCHING
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J


[PHOTO(A)BOARD]
[PHOTO(B)BOARD]
[CONTROL SW(B)BOARD(1/3)]
IC803 M50784SP INPUT EXPAND
BUFFER
DECODER
PORT R
IC806 MB88421-160 SYSTEM CONTROL
[TIMER SW BOARD]
[MODE SW BOARD]
DETECTION SW(A) BOARD(1/2)
DETECTION SW(B) BOARD(1/3)
[DUBBING SW BOARD]
[AMS SW BOARD(1/2)]
CONTROL SW (A)BOARD(1/2)
[RELAY(A)BOARD]
[RELAY(B)BOARD]
[DUBBING CONTROL(B) BOARD (1/2)]
[AMS SW BOARD(1/2)]
[CONTROL SW(B) BOARD(1/3)]
IC811 HD14023BP DUBBING CONTROL
RIPPLE FILTER
SYNCHRO
(CHASSIS)
Q810 DTC114ES MUTING
Q802 2SD1406 VOLT.REG.
Q801 2SD VOLT.REG.
D918 1SS202



Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- ▬▬ : B+ bus.
- ▬ ▬ ▬ : B– bus.
- ☐ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  - ( ) : DECK-A
  - (( )) : DECK-B
  - ▶ : FWD
  - ◀ : REV
  - ▶▶ : FF
  - ◀◀ : REW
  - ■ : STOP
  - ● : REC
  - [ ] : REC
  - ND : NORMAL SPEED DUBBING
  - HD : HIGH SPEED DUBBING
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S001	POWER	OFF
S002	TIMER	OFF
S003	DIRECTION MODE	⇄
S006	HEADPHONES-A/B	—
S007	DUBBING-NORM SPEED	OFF
S008	DUBBING-HIGH SPEED	OFF
S009	AMS BLANK SKIP	OFF
S851, 871	REW	B
S852, 872	REV.	OFF
S853, 873	STOP	OFF
S854, 874	FWD	OFF
S855, 875	FF	OFF
S861, 881	DIRECTION	OFF
S877	REC	OFF
S878	REC MUTE	OFF
S882	CASSETTE DIRECT	OFF
S883	ERASUER PREVENSION	OFF

Note: Voltages are measured with a VOM (50kΩ/V).

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

4-3. MOUNTING DIAGRAM

US MODEL: (Serial No. 802,001 and later)
AEP MODEL: (Serial No. 500,201 and later)
E MODEL: (Applicable for all sets)

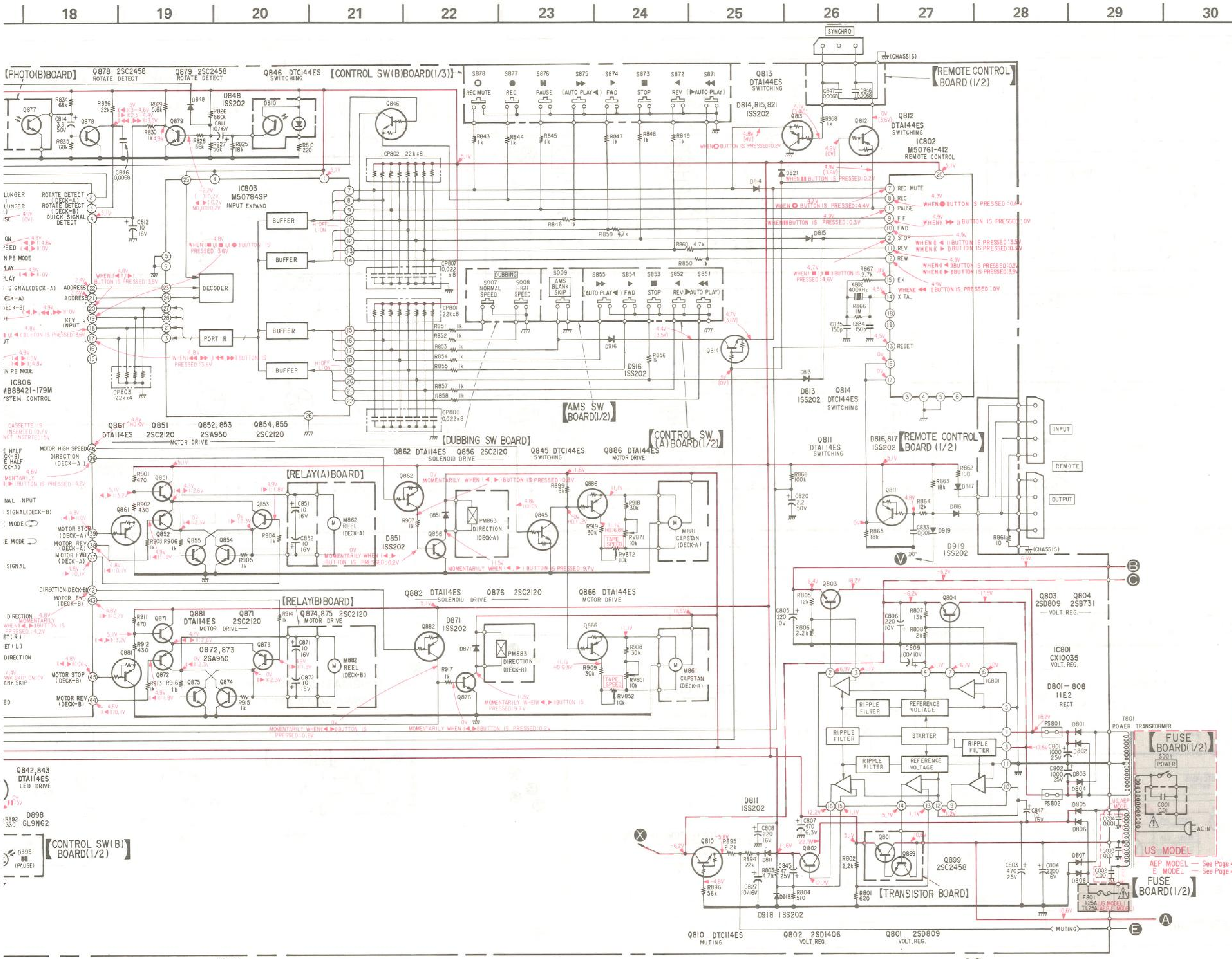

[REMOTE CONTROL BOARD]
[MODE SW BOARD]
[TIMER SW BOARD]
[SYSTEM CONTROL BOARD]
[DOLBY SW BOARD]
[DUBBING SW BOARD]
[AMS SW BOARD]
[LED (A) BOARD]
[DETECTION SW(A) BOARD]
[DETECTION SW(B)BOARD]
[LED(B)BOARD]
[RECORD DETECTION SW BOARD]
[CONTROL SW (A) BOARD]
[CONTROL SW (B)BOARD]
[PHOTO(B) BOARD]
[RELAY(B)BOARD]
[PHOTO(A) BOARD]
DECK (B)
AEP, E MODEL
M881 CAPSTAN MOTOR
M861 CAPSTAN MOTOR
M882 REEL MOTOR
PM881 SOLENOID HEAD
PM882 SOLENOID BRAKE
PM883 SOLENOID DIRECTION
S867 (POWER)
S887 (POWER)
Q877 (ROTATE DETECT)
PL881
IC806
IC807
IC803
IC802
IC804
IC805
IC301
IC401
D895 REV
D894 FWD
D893 REV
D892 FWD

TIMER SW BOARD
AMS SW BOARD
SYSTEM CONTROL BOARD
TRANSISTOR BOARD
SW(A) BOARD
SW(B) BOARD
RD DETECTION SW BOARD
PHOTO(B) BOARD
RELAY(B) BOARD
PHOTO(A) BOARD
RELAY(A) BOARD
FUSE BOARD
US MODEL
AEP,E MODEL
CAPSTAN MOTOR
REEL MOTOR
SOLENOID HEAD
SOLENOID BRAKE
SOLENOID DIRECTION
POWER TRANSFORMER
DECK (B)
DECK (A)
AEP MODEL — See Page 44.
E MODEL — See Page 45.
Q, IC
D

4-4. SCHEMATIC DIAGRAM – *System Control Section* –
AUDIO SECTION . . . . See page 42 to 45

US MODEL: (Serial No. 802,001 and later)
AEP MODEL: (Serial No. 500,201 and later)
E MODEL: (Applicable for all sets)


[PHOTO(A)BOARD]
[PHOTO(B)BOARD]
[CONTROL SW(B)BOARD(1/3)]
IC803
M50784SP
INPUT EXPAND
BUFFER
DECODER
PORT R
IC806
MB88421-179M
SYSTEM CONTROL
[TIMER SW BOARD]
[MODE SW BOARD]
[DETECTION SW(A) BOARD(1/2)]
[DETECTION SW(B) BOARD(1/3)]
[RELAY(A)BOARD]
[RELAY(B)BOARD]
[AMS SW BOARD(1/2)]
[DUBBING SW BOARD]
[CONTROL SW (A)BOARD(1/2)]
[CONTROL SW(B) BOARD(1/2)]
[AMS SW BOARD(1/2)]
RIPPLE FILTER
Q810 DTC114ES MUTING
Q802 2SD1406 VOLT.REG.



Note:

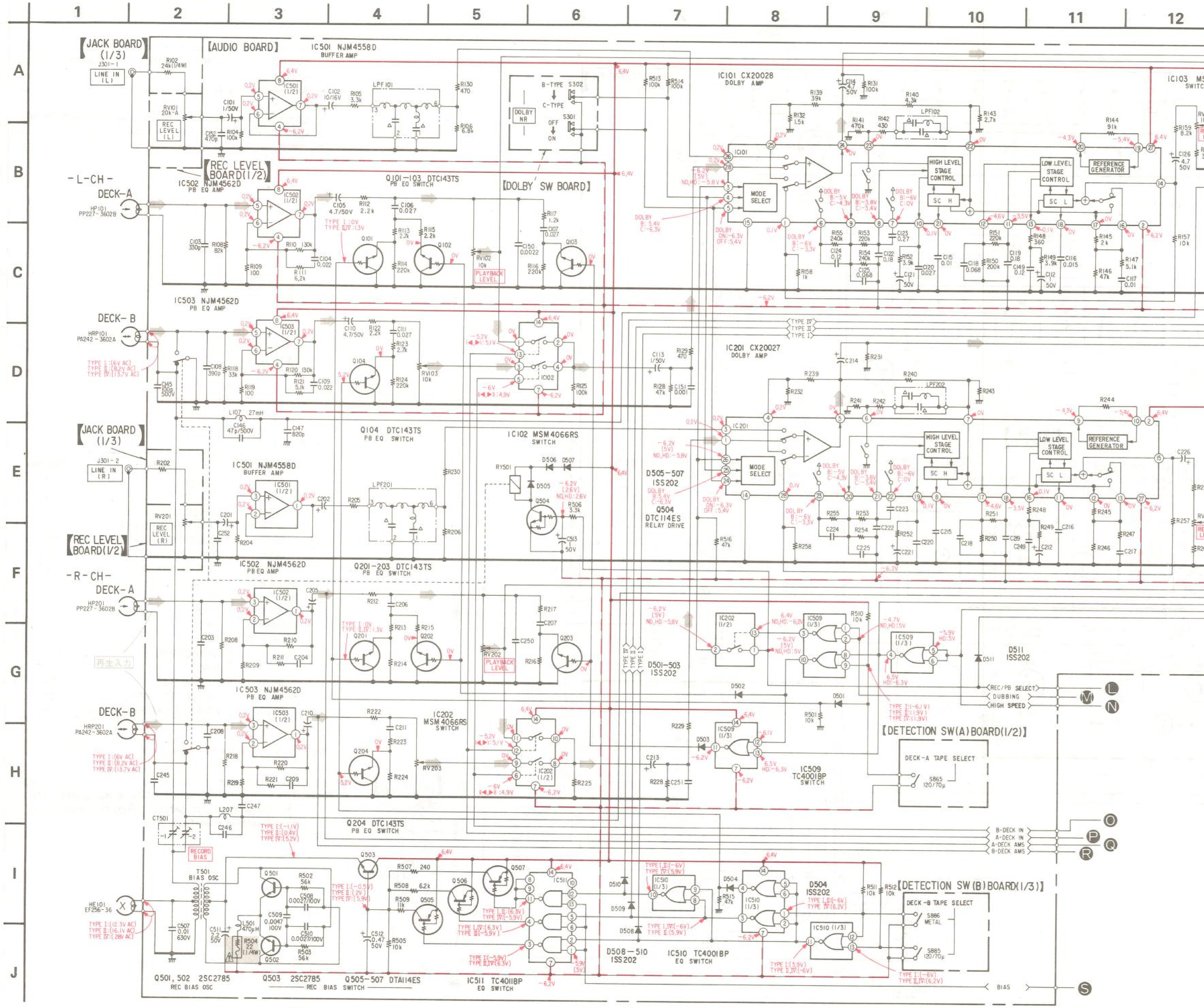
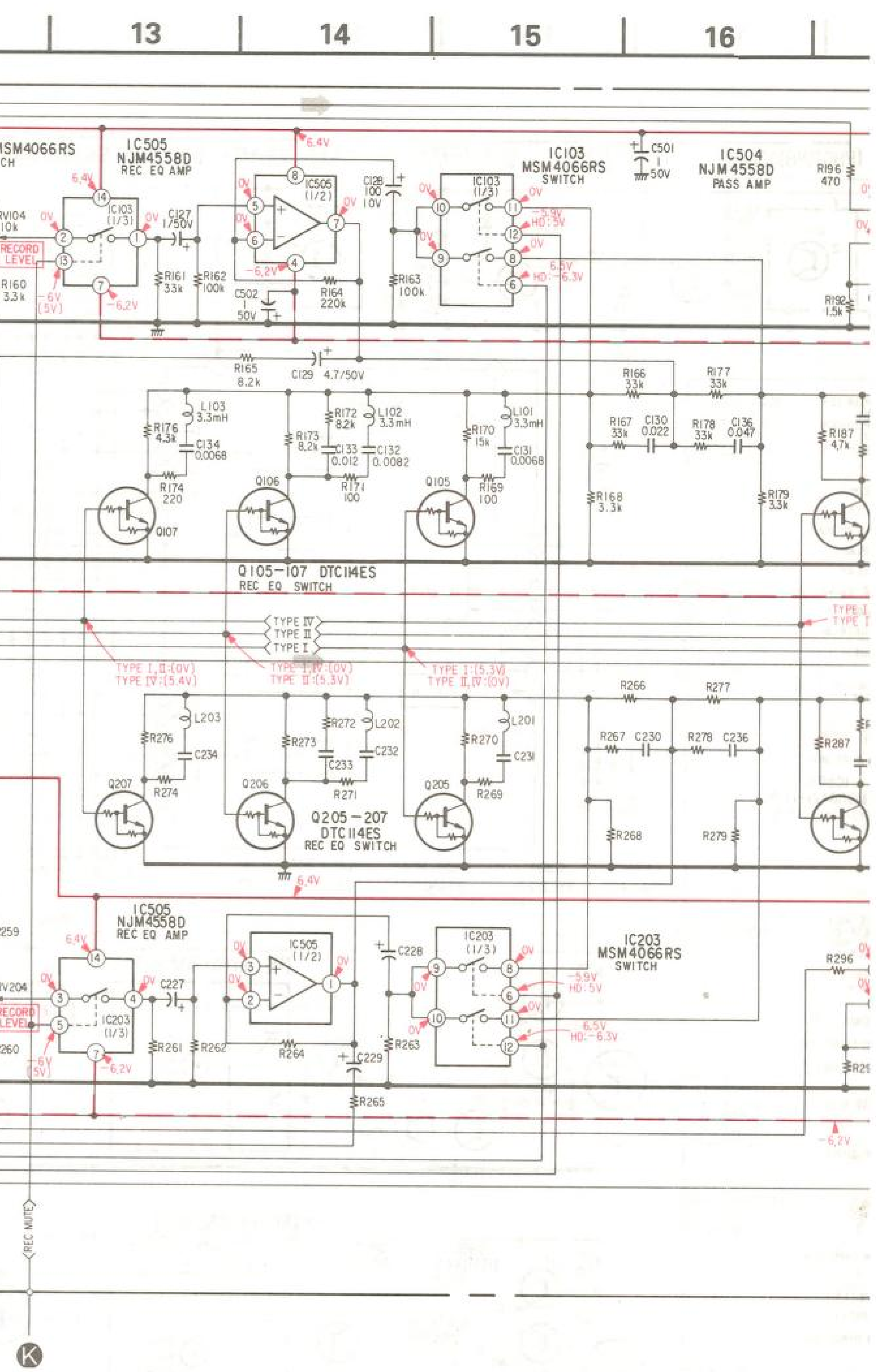
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- ▬▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  - ( ) : DECK-A
  - (( )) : DECK-B
  - ▶ : FWD
  - ◀ : REV
  - ▶▶ : FF
  - ◀◀ : REW
  - ■ : STOP
  - ● : REC
  - [ ] : REC
  - ND : NORMAL SPEED DUBBING
  - HD : HIGH SPEED DUBBING
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S001	POWER	OFF
S002	TIMER	OFF
S003	DIRECTION MODE	⇄
S006	HEADPHONES-A/B	—
S007	DUBBING-NORM SPEED	OFF
S008	DUBBING-HIGH SPEED	OFF
S009	AMS BLANK SKIP	OFF
S851, 871	REW	B
S852, 872	REV.	OFF
S853, 873	STOP	OFF
S854, 874	FWD	OFF
S855, 875	FF	OFF
S861, 881	DIRECTION	OFF
S877	REC	OFF
S878	REC MUTE	OFF
S882	CASSETTE DIRECT	OFF
S883	ERASUER PREVENSION	OFF

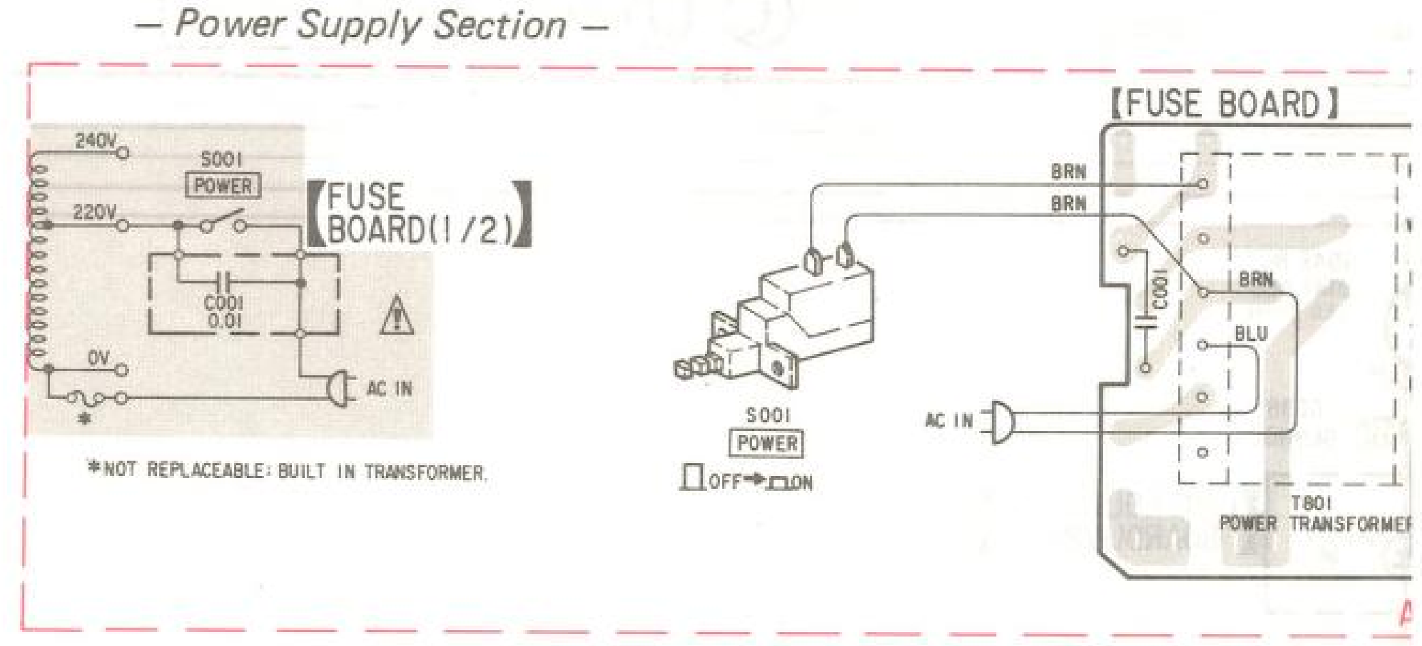
Note: Voltages are measured with a VOM (50kΩ/V).

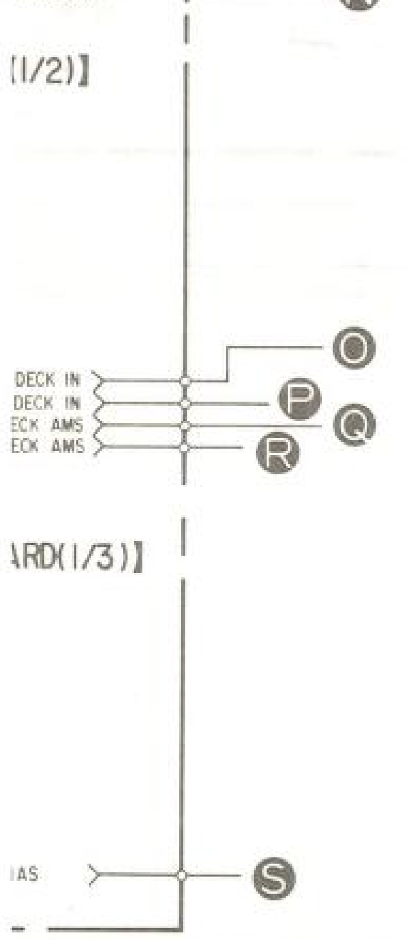
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-5. SCHEMATIC DIAGRAM — *Audio Section* —

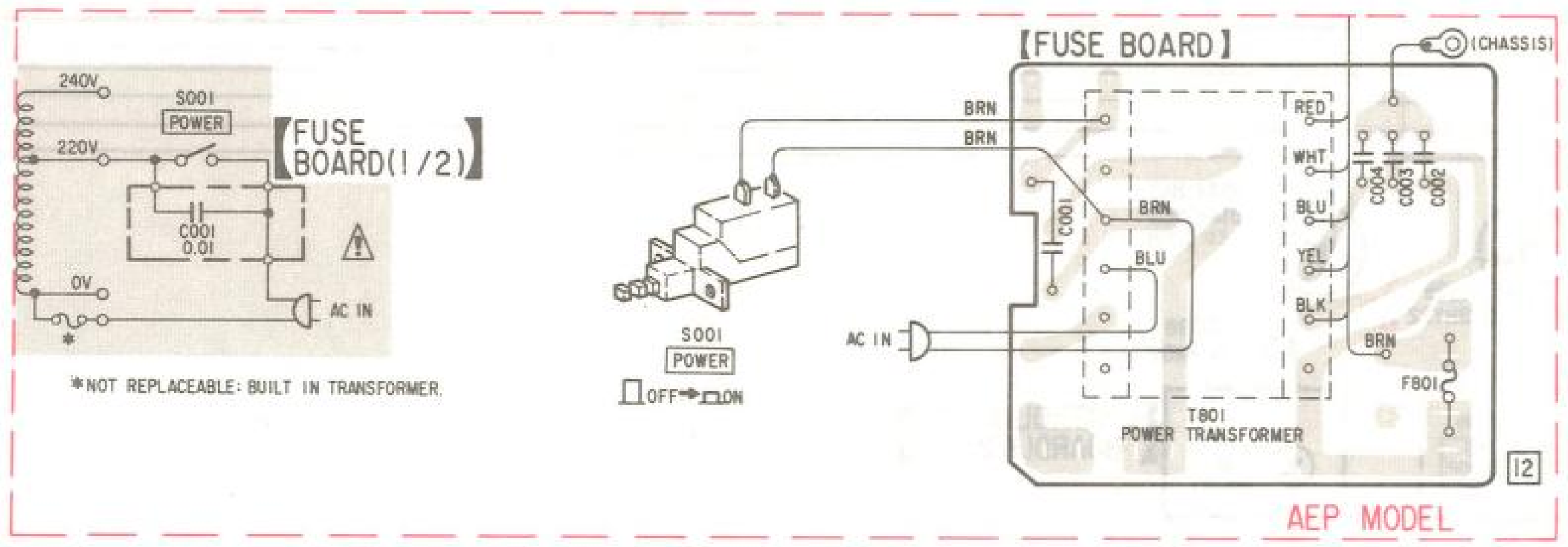
4-6. SCHEMATIC/MOUNTING DIAGRAM
— *Power Supply Section* —

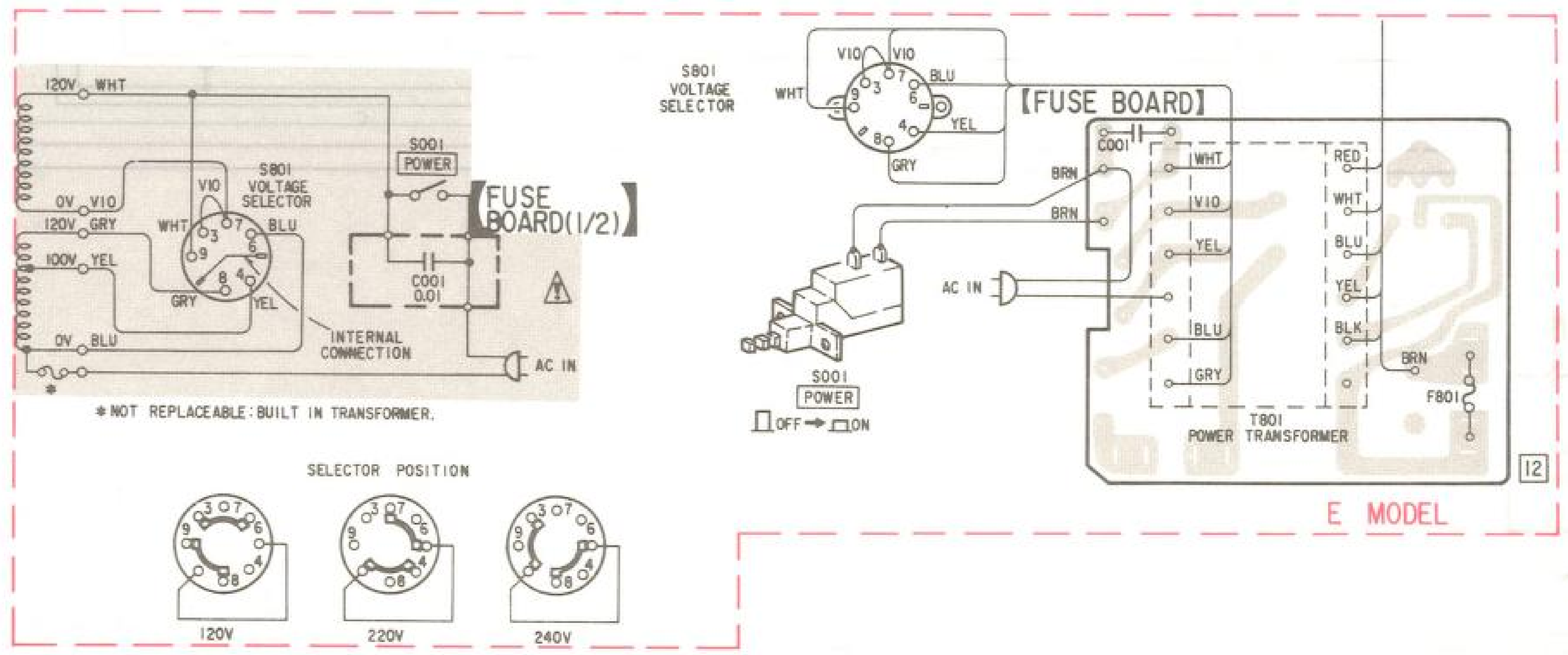


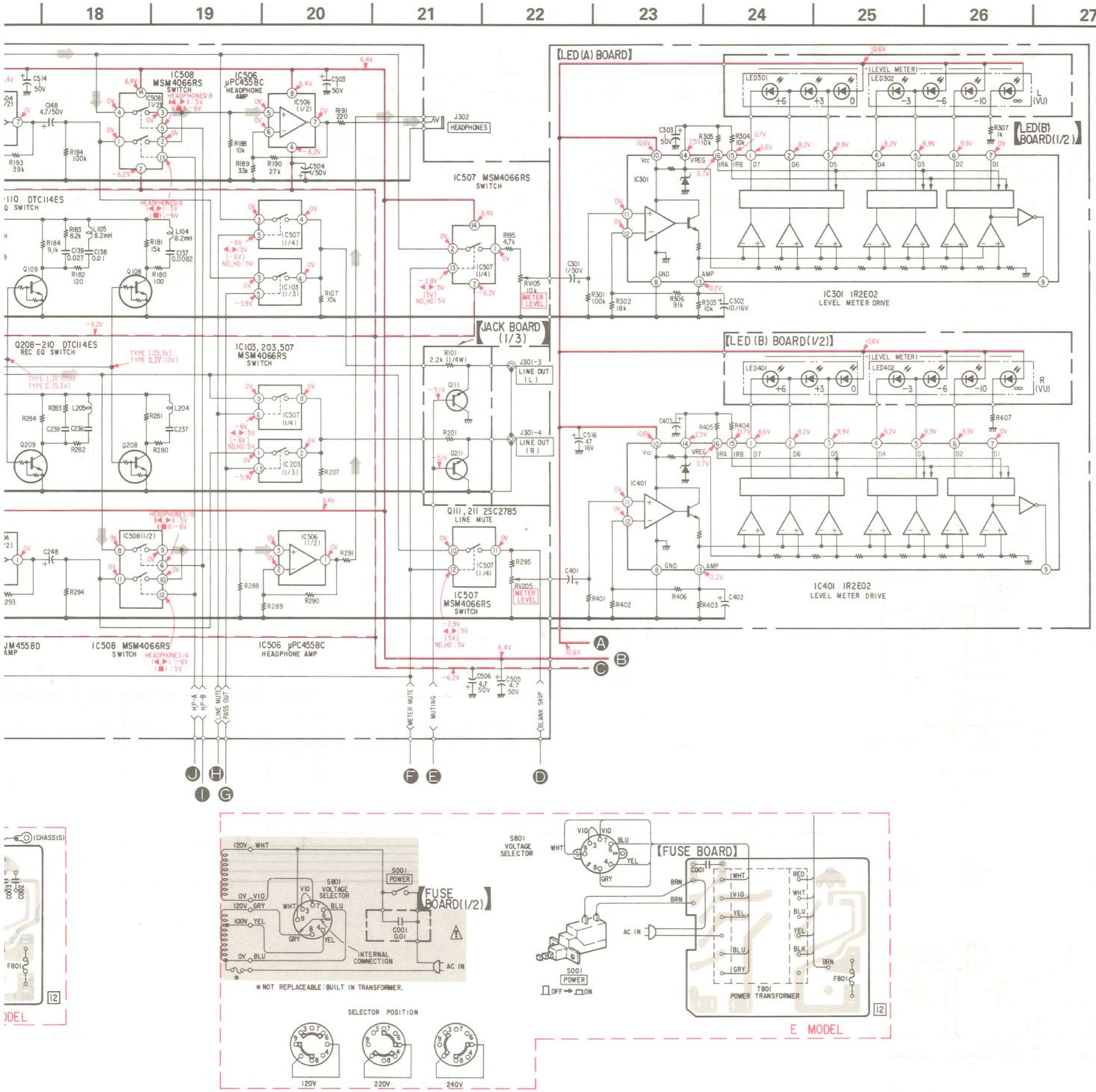


4-6. SCHEMATIC/MOUNTING DIAGRAM

— Power Supply Section —

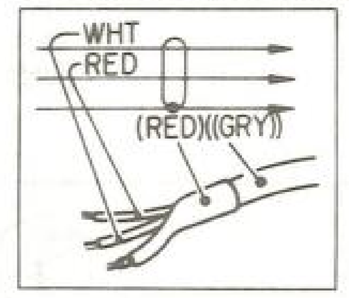






Note on Mounting Diagram

- Color code of sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- : signal path
- : L-CH signal path
- : R-CH signal path
- : B + pattern
- : B – pattern

Note on Schematic Diagram

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^1/_4$W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- : signal path.
- : fusible resistor.
- △ : internal component.
- : B+ bus.
- : B– bus.
- : adjustment for repair.

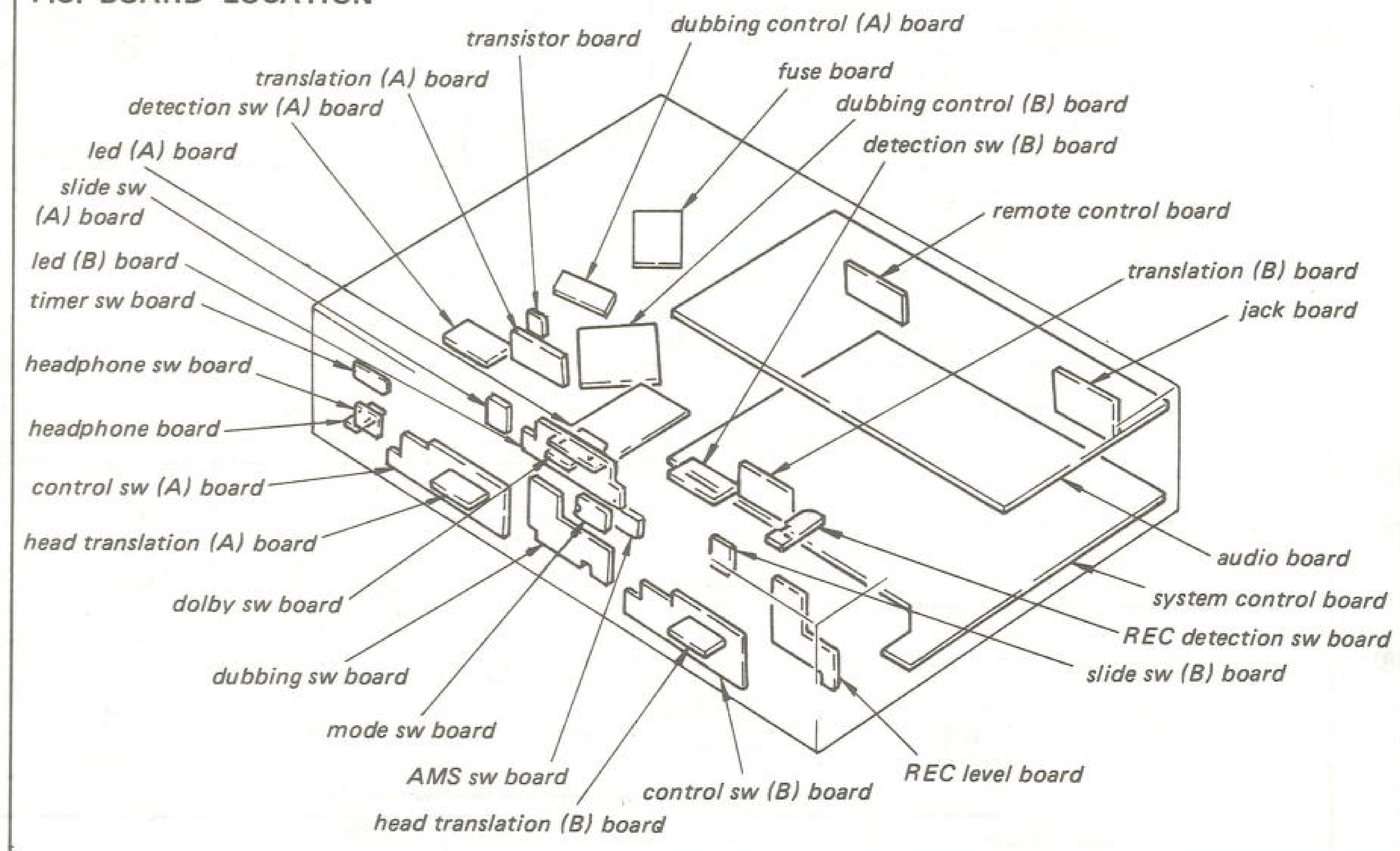
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  - ( ) : DECK-A
  - (( )) : DECK-B
  - ▶ : FWD
  - ◀ : REV
  - ▶▶ : FF
  - ◀◀ : REW
  - ■ : STOP
  - ● : REC
  - [ ] : REC
  - ND : NORMAL SPEED DUBBING
  - HD : HIGH SPEED DUBBING
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S301	DOLBY NR ON/OFF	OFF
S302	DOLBY NR-B/C	B
S865, 885	TAPE SELECT/120 μ	OFF
S884	ERASURE PREVENTION	OFF
S886	TAPE SELECT (METAL)	OFF

Note: Voltages are measured with a VOM (50kΩ/V).

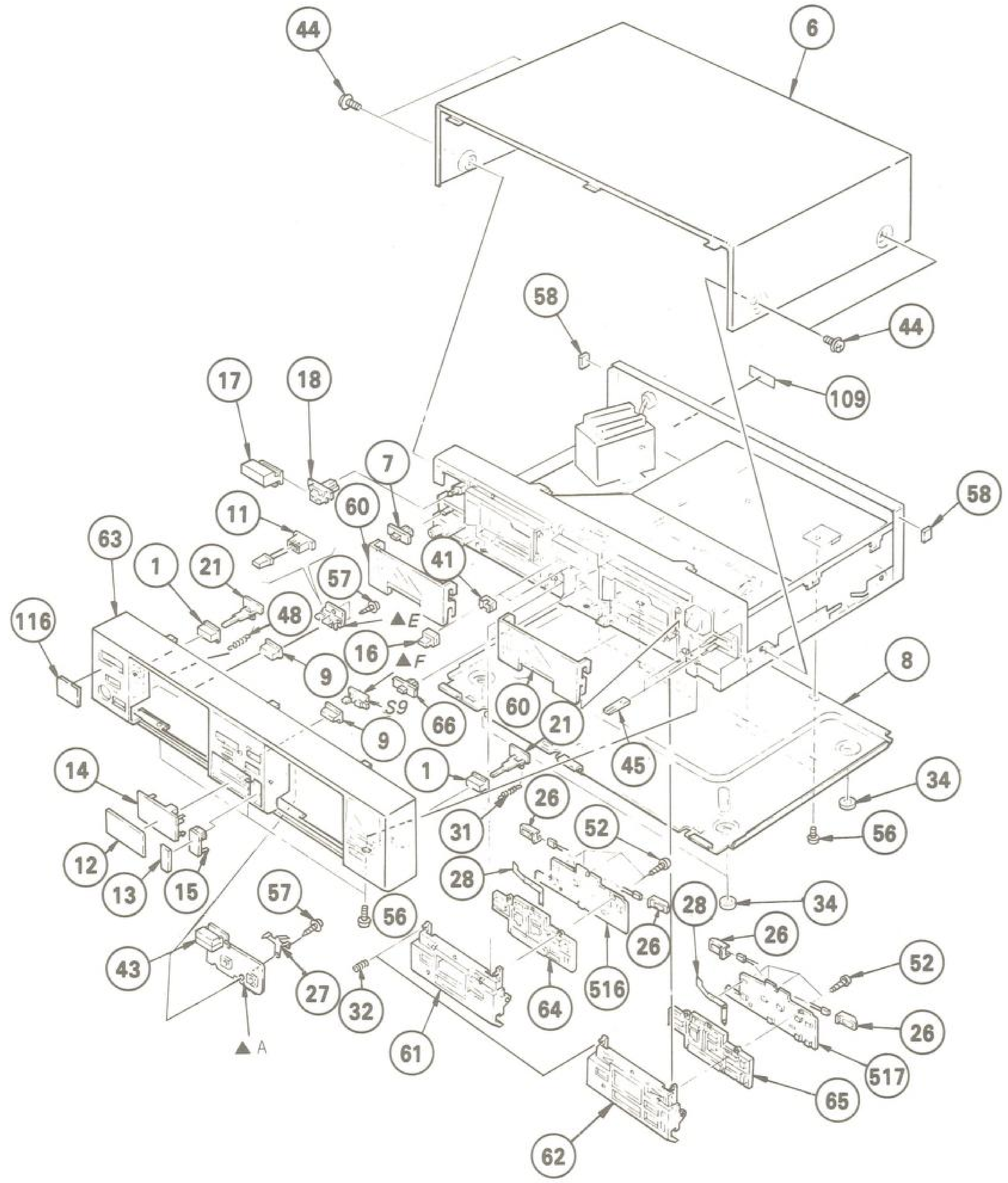
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

P.C. BOARD LOCATION

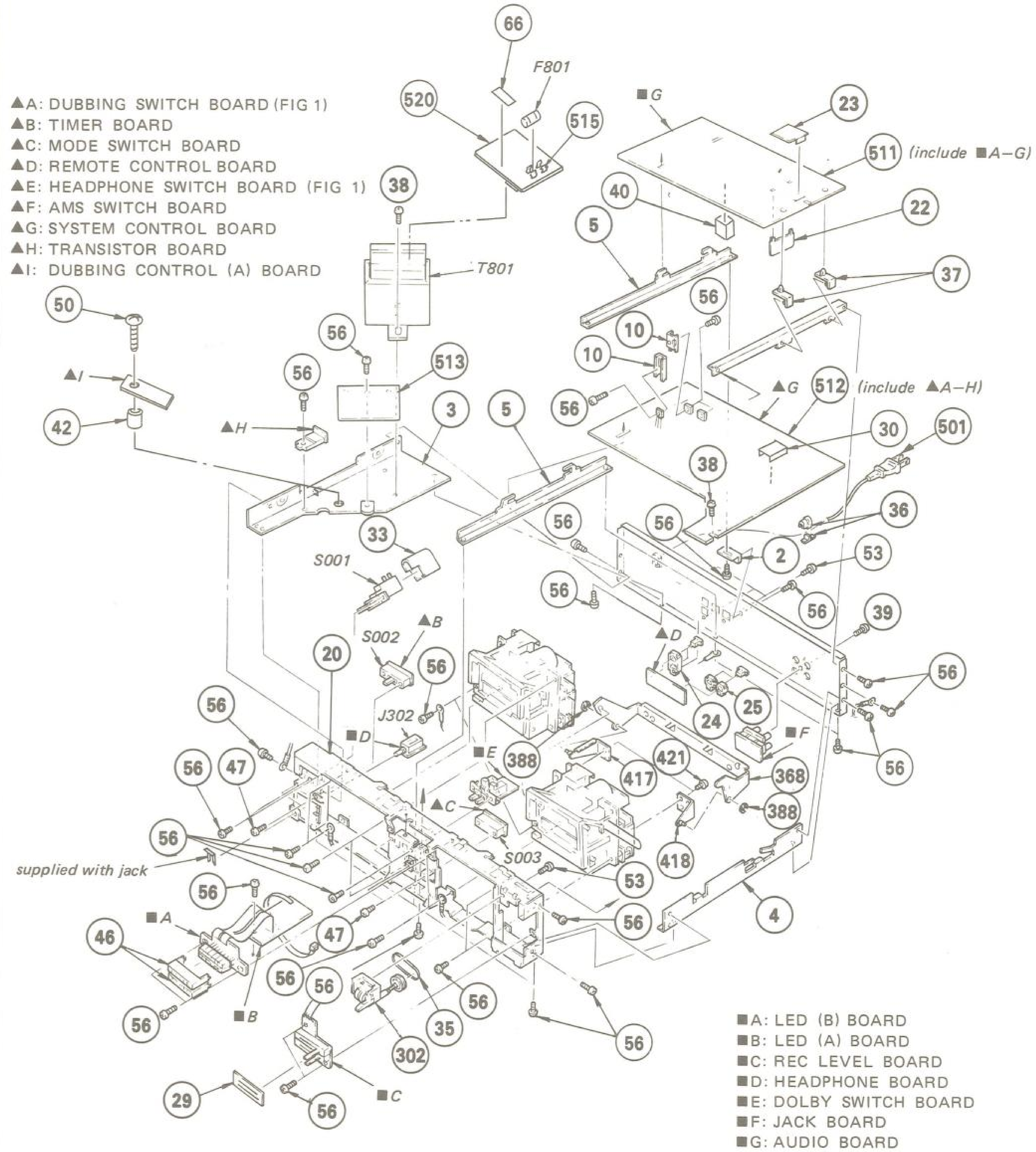


SECTION 5
EXPLODED VIEWS AND PARTS LIST

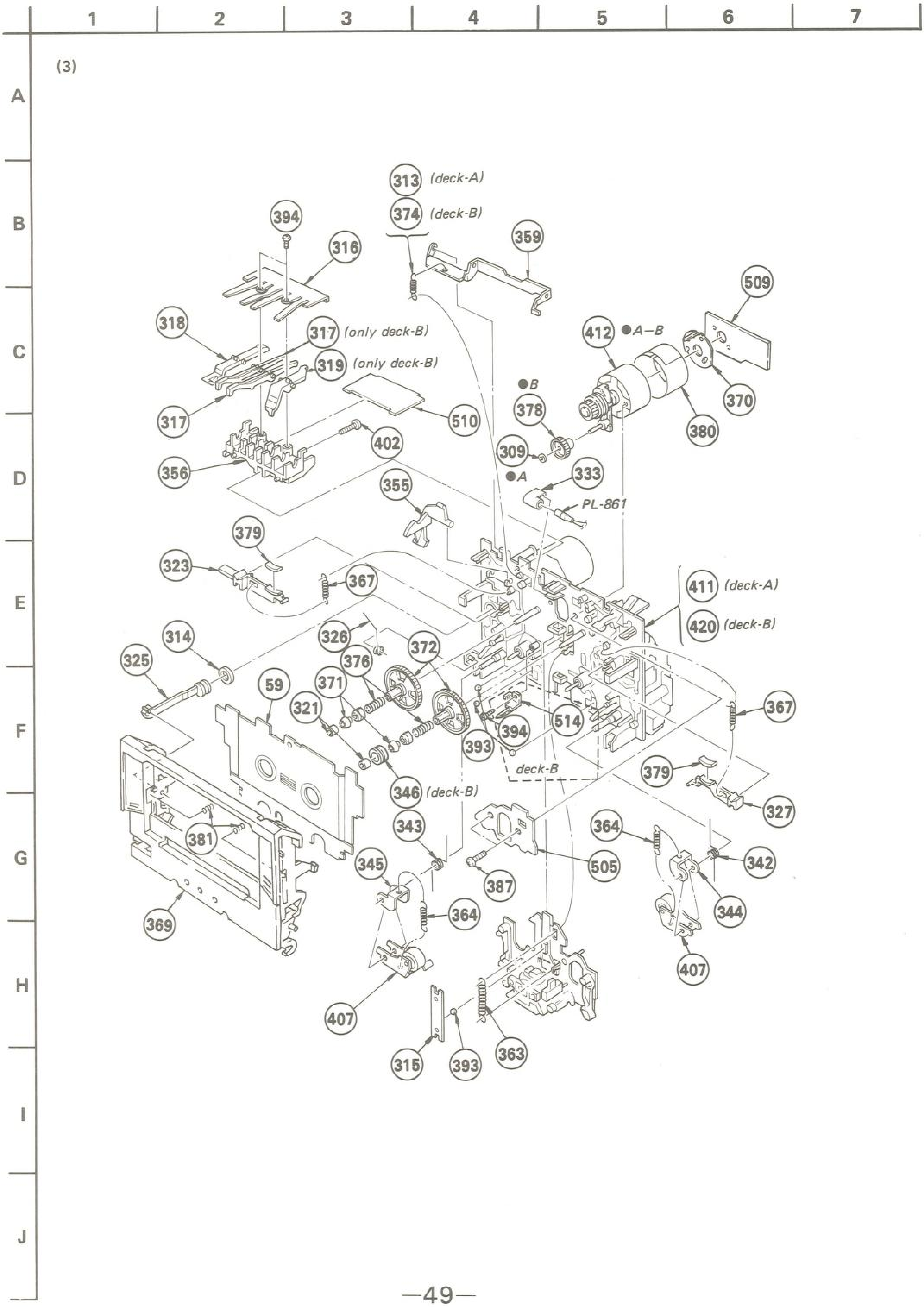
(1)



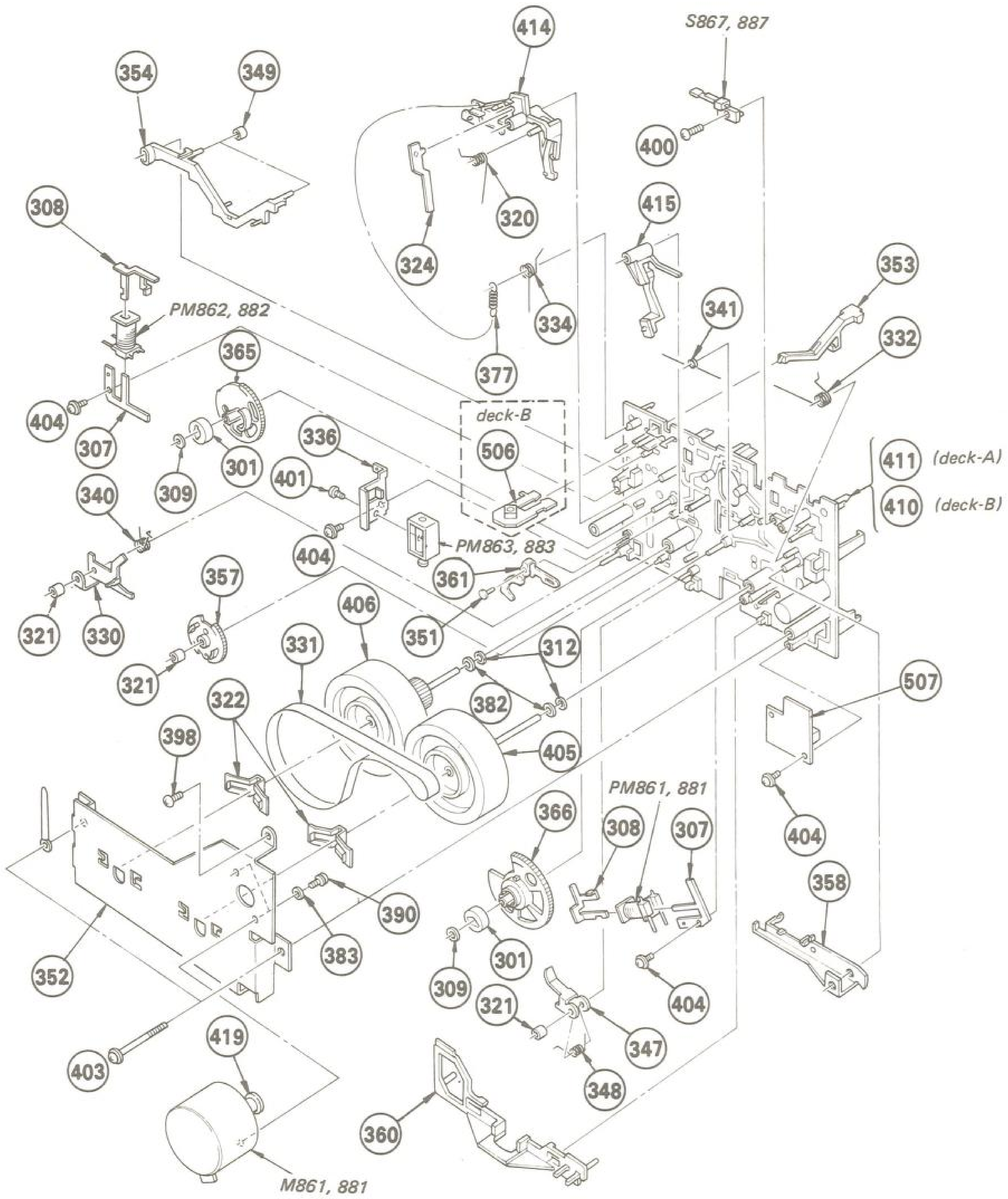
(2)



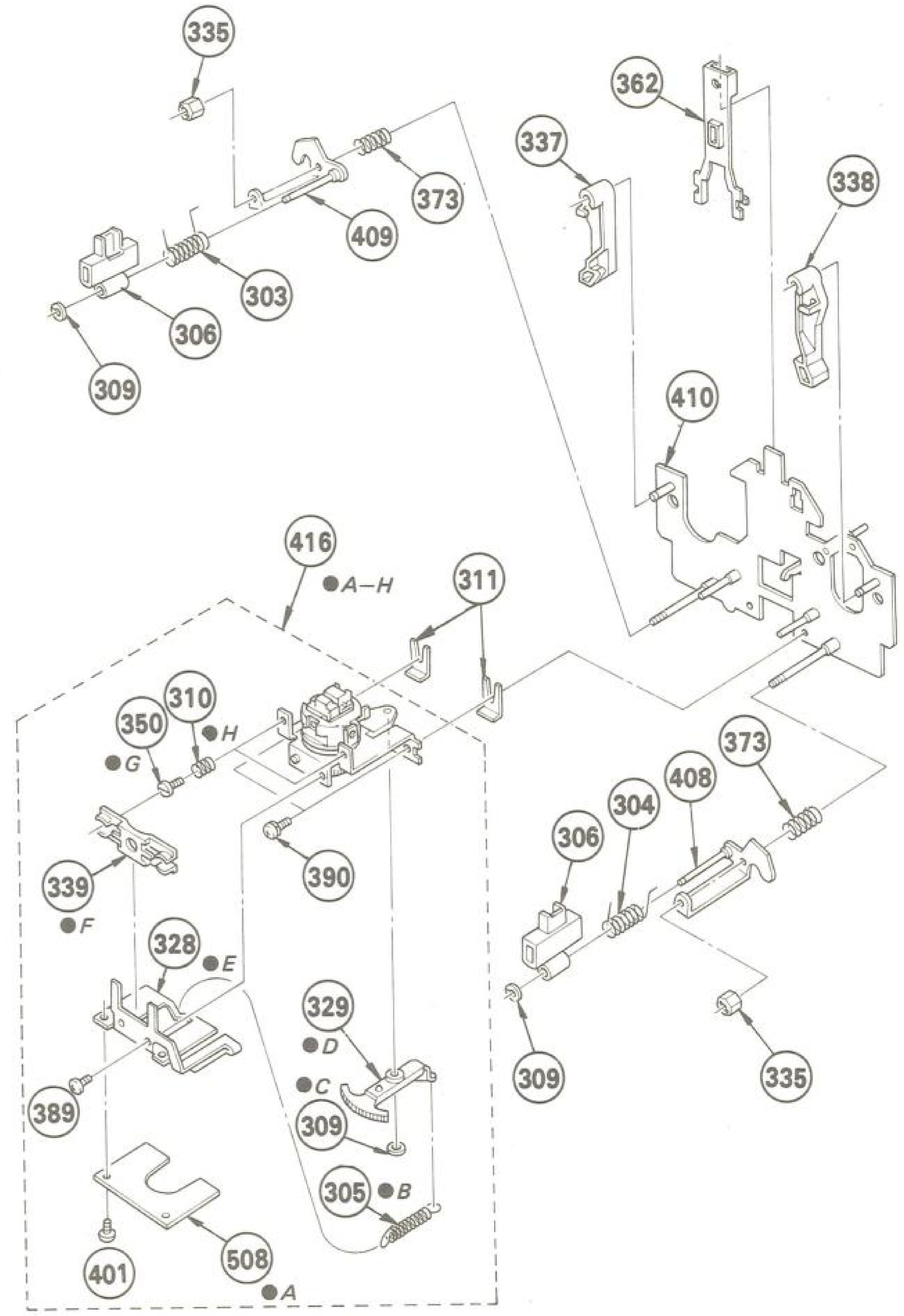
(3)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
313 (deck-A)
374 (deck-B)
394
316
359
509
318
317 (only deck-B)
319 (only deck-B)
412 ●A–B
370
317
510
●B
378
380
402
309
356
●A
333
355
PL-861
379
323
367
411 (deck-A)
420 (deck-B)
314
326
372
325
376
59
371
321
394
514
367
393
deck-B
379
346 (deck-B)
327
343
364
381
345
342
387
505
369
364
344
407
407
315
393
363

(4)


354
349
414
S867, 887
400
320
324
415
308
353
334
341
332
PM862, 882
377
365
deck-B
506
404
336
411 (deck-A)
307
401
410 (deck-B)
301
309
340
PM863, 883
404
361
357
406
321
330
331
351
312
321
382
507
322
398
405
366
PM861, 881
308
307
404
358
390
383
352
301
309
404
321
347
419
403
348
360
M861, 881

(5)


335
362
373
337
338
409
303
306
309
410
416
●A−H
311
310
350
●H
●G
373
390
408
304
306
339
●F
328
●E
329
●D
309
335
●C
389
309
305 ●B
401
508
●A

GENERAL SECTION

No.	Part No.	Description
1	3-304-419-31	BUTTON, EJECT
2	*3-307-495-00	BRACKET (LEFT), MECHANICAL
3	*3-307-525-21	PLATE, SIDE, LEFT
4	*3-307-526-00	PLATE, SIDE, RIGHT
5	*3-307-527-00	PLATE, RELAY
6	3-307-532-11	CASE
7	3-307-538-21	KNOB, SWITCH, TIMER
8	*3-307-540-00	PLATE, BOTTOM
9	3-311-506-21	BUTTON, COUNTER
10	*3-312-615-31	HEAT SINK
11	3-315-146-00	(AEP,E)...HOLDER, LED
12	3-318-805-31	KNOB (STOP), T MOLD
13	3-318-806-51	KNOB (PAUSE), T MOLD
14	3-318-814-01	MOLD, KNOB, FWD
15	3-318-816-01	MOLD, KNOB, PAUSE
16	3-318-909-11	KNOB, PUSH
17	3-318-911-11	KNOB (POWER.L), T MOLD
18	3-318-915-01	JOINT (P), KNOB
19	*3-322-811-12	(US).....PLATE, JACK
19	*3-322-811-22	(AEP)....PLATE, JACK
19	*3-322-811-32	(E)......PLATE, JACK
20	*3-322-814-01	CHASSIS, AMPLIFIER
21	*3-322-815-01	SLIDER, EJECT
22	*3-322-816-01	PLATE (1), SHIELD
23	*3-322-817-01	PLATE (2), SHIELD
24	*3-322-818-01	HOLDER, CONNECTOR
25	*3-322-819-01	HOLDER, CONNECTOR
26	3-322-820-01	CASE, LED, DR
27	*3-322-822-01	SPRING (A), LEAF
28	*3-322-823-01	SPRING (B), LEAF
29	3-322-824-01	PLATE, ORNAMENTAL, REC CONTROL
30	*3-322-828-01	COVER, MICRO COMPUTER
31	3-540-244-00	SPRING, TENSION
32	3-565-224-00	SPRING, COMPRESSION
33	3-575-524-00	COVER, POWER SWITCH
34	3-576-731-11	FELT (H)
35	3-672-602-00	BELT (A), COUNTER
36	3-701-682-00	(US,E)....STOPPER, CORD
36	3-703-244-00	(AEP).....BUSHING, CORD
37	*3-701-832-00	HINGE, CIRCUIT BOARD
38	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6
39	3-703-473-00	SCREW, TERMINAL
40	*3-323-473-01	CASE, SHIELD
41	4-864-307-00	RING
42	*3-565-796-00	SPACER, PC BOARD
43	4-886-864-00	SPACER, LED

GENERAL SECTION

No.	Part No.	Description
44	4-889-321-11	SCREW
45	4-902-815-21	KNOB, EQUALIZER
46	4-906-205-01	HOLDER (A), LED
47	7-621-775-10	SCREW +B 2.6X4
48	3-650-542-00	SPRING, TENSION
49	7-682-646-01	SCREW +PS 3X5
50	7-685-876-01	SCREW +BVTT 3X16 (S)
51	....	
52	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S
53	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S
54	7-685-751-09	SCREW +BVTT 3X6 (S)
55	....	
56	7-685-871-01	SCREW +BVTT 3X6 (S)
57	7-687-204-11	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
58	9-911-840-XX	RUBBER (B)
59	X-3318-819-1	RETAINER ASSY, CASSETTE
60	X-3322-801-1	WINDOW ASSY, CASSETTE
61	X-3322-802-1	PANEL (A) ASSY, CONTROL
62	X-3322-803-1	PANEL (B) ASSY, CONTROL
63	X-3322-813-1	(US)......PANEL ASSY, FRONT
63	X-3322-814-1	(AEP,E)...PANEL ASSY, FRONT
64	X-3322-806-1	BUTTON (A) ASSY, CONTROL
65	X-3322-807-1	BUTTON (B) ASSY, CONTROL
66	3-701-946-21	(US)...LABEL, FUSE

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 circuitsin 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:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-551-734-11	CORD, CONNECTION (RK-74A)
102	1-556-372-41	CORD, CONNECTION (4 CORE)
103	3-312-976-00	SHEET, PROTECTION, PANEL
104	3-315-149-00	CUSHION (LEFT), LOWER
105	3-315-150-00	CUSHION (RIGHT), LOWER
106	3-315-151-00	CUSHION (LEFT), UPPER
107	3-315-152-00	CUSHION (RIGHT), UPPER
108	3-322-821-11	INDIVIDUAL CARTON
109	*3-322-830-01	(US,Canadian)...LABEL, MODEL NUMBER
109	*3-322-832-01	(AEP)....LABEL, MODEL NUMBER
109	*3-322-833-01	(E)......LABEL, MODEL NUMBER
110	3-701-630-00	BAG, POLYETHYLENE
111	3-703-680-00	LABEL, CAUTION, SUB, NEW UL
112	3-773-926-11	(E).....MANUAL, INSTRUCTION
112	3-773-926-21	(US)....MANUAL, INSTRUCTION
112	3-773-926-41	(AEP)...MANUAL, INSTRUCTION
113	*4-302-759-00	LABEL, SERIAL NUMBER
114	4-876-352-00	SHEET, PROTECTION

MECHANISM SECTION

No.	Part No.	Description
301	1-452-202-00	MAGNET
302	1-548-563-81	COUNTER, TAPE
303	3-306-249-00	SPRING (LEFT)
304	3-306-250-00	SPRING (RIGHT)
305	3-306-258-01	SPRING, TENSION
306	3-306-269-01	GUIDE, TAPE
307	3-307-332-00	ARBOR, FIXED
308	3-307-333-00	ARBOR, TRIGGER
309	3-307-394-00	RETAINER (B), THRUST
310	3-307-460-00	SPRING, COMPRESSION
311	3-307-477-01	SEAM (A), HEAD ADJUSTMENT
311	3-307-477-11	SEAM (A), HEAD ADJUSTMENT
311	3-307-477-21	SEAM (A), HEAD ADJUSTMENT
311	3-307-477-31	SEAM (A), HEAD ADJUSTMENT
311	3-307-477-41	SEAM (A), HEAD ADJUSTMENT
312	3-307-482-00	WASHER, LUMILER
313	3-312-432-00	SPRING, TENSION
314	3-312-441-00	RING, PISTON
315	3-319-601-01	SPRING
316	3-319-602-01	SPRING
317	3-319-603-01	LEVER, REC DETECTION
318	3-319-604-01	LEVER, HALF DETECTION
319	3-319-605-01	LEVER, METAL DETECTION
320	3-319-606-01	SPRING
321	3-319-607-01	BUSHING, REEL TABLE
322	3-319-608-01	RETAINER, THRUST
323	*3-319-611-01	LEVER (LEFT), BACK TENSION
324	3-319-612-01	SPRING
325	3-319-613-01	PISTON (B)
326	3-319-614-01	SPRING
327	*3-319-615-01	LEVER (RIGHT), BACK TENSION
328	3-319-620-01	PLATE, ORNAMENTAL, HEAD
329	3-319-625-01	GEAR, ROTARY HEAD
330	*3-319-628-01	LEVER, REVERSE TRIGGER
331	3-319-630-11	BELT (R), CAPSTAN
332	3-319-633-01	SPRING
333	3-319-636-01	RUBBER, LAMP HOLDER
334	3-319-637-01	SPRING (R)
335	3-319-638-01	NUT, ADJUSTMENT
336	*3-319-639-01	BRACKET, TRIGGER PM
337	3-319-642-01	LEVER (R), P ROLLER SELECTION
338	3-319-643-01	LEVER (L), P ROLLER SELECTION
339	3-319-644-01	STOPPER
340	3-319-648-01	SPRING
341	3-319-649-01	SPRING
342	3-319-650-01	SPRING (R)

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC....: μPC,
UPD...: μPD...

MECHANISM SECTION

No.	Part No.	Description
343	3-319-651-01	SPRING (L)
344	*3-319-652-01	PLATE (RIGHT), LIMITER
345	*3-319-653-01	PLATE (LEFT), LIMITER
346	....	
347	*3-319-658-01	LEVER, TRIGGER KICK
348	3-319-660-01	SPRING
349	3-319-662-01	RUBBER, BRAKE
350	3-319-663-01	SCREW, ADJUSTMENT, AZIMUTH
351	*3-319-664-01	SHAFT, CONTROL LEVER
352	*3-319-665-01	RETAINER, THRUST
353	3-319-666-01	LEVER (RIGHT), REC DETECTION
354	*3-319-668-01	PLATE, BRAKE
355	3-319-669-01	LEVER, EJECT
356	3-319-670-01	HOLDER, SWITCH, DETECTION
357	3-319-674-01	GEAR, REVERSE CAM
358	*3-319-676-01	LEVER, FWD
359	*3-319-678-01	LEVER, SWITCH LIFT
360	*3-319-681-01	SLIDER, REVERSE
361	*3-319-683-01	LEVER, CONTROL, TRIGGER
362	3-319-684-01	PROTECTOR, EDGE
363	3-319-685-01	SPRING, TENSION
364	3-319-686-01	SPRING, TENSION
365	3-319-688-01	GEAR, PAUSE CAM
366	3-319-689-01	GEAR, FWD CAM
367	3-319-694-01	SPRING, TENSION
368	*3-319-698-01	LEVER, CHANGE
369	3-319-700-01	HOLDER, CASSETTE
370	*3-319-702-01	PLATE, SHIELD, REEL MOTOR
371	3-319-704-61	CAP, REEL
372	3-319-705-01	REEL TABLE
373	3-537-215-00	SPRING, COMPRESSION
374	3-541-231-00	SPRING, TENSION
375	3-558-339-00	CLAW (R), REEL TABLE
376	....	
377	....	
378	3-575-332-00	GEAR, FR
379	3-575-346-01	FELT, BREKE
380	3-575-457-00	PLATE (B), SHIELD, MOTOR
381	3-610-808-00	SPRING (1)
382	3-701-438-11	WASHER, 2.5
383	....	
384	7-621-710-26	SET-SCREW, SLOT 2X3 FLAT POINT
386	7-621-775-00	SCREW +B 2.6X3
387	7-621-775-60	SCREW +B 2.6X12
388	7-624-105-04	STOP RING 2.3, TYPE-E
389	7-627-553-17	SCREW, PRECISION +P 2X2
390	7-628-253-05	SCREW +PS 2X4

MECHANISM SECTION

No.	Part No.	Description
391	7-671-111-11	STEEL, BOUL 1.5MM
392	7-671-112-01	STEEL, BALL
393	7-671-112-11	BALL, STEEL
394	7-685-102-19	SCREW +P 2X4 TYPE2 SLIT
395	7-685-131-21	SCREW +P 2.6X4 TYPE2 SLIT
396	7-685-132-21	SCREW +P 2.6X5 TYPE2 SLIT
397	7-685-645-11	SCREW +BVTP 3X6 TYPE2 N-S
398	....	
399	7-685-790-04	SCREW +BVTT 2.6X4 (S)
400	....	
401	7-685-850-01	SCREW +BVTT 2X3 (S)
402	7-685-865-01	SCREW +BVTT 2.6X12 (S)
403	7-685-879-01	SCREW +BVTT 3X30 (S)
404	7-687-204-21	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
405	X-3319-623-1	FLYWHEEL ASSY
406	X-3319-606-1	FLYWHEEL (T) ASSY
407	X-3319-607-1	PINCH LEVER ASSY
408	*X-3319-608-1	LEVER (RIGHT) ASSY, GUIDE
409	*X-3319-609-1	LEVER (LEFT) ASSY, GUIDE
410	*X-3319-610-1	CHASSIS ASSY, REVERSE HEAD
411	X-3319-611-1	CHASSIS ASSY, MECHANICAL
412	X-3319-612-1	MOTOR ASSY, REEL
413	X-3319-613-1	BRACKET COMPLETE ASSY, HEAD
414	*X-3319-614-1	LEVER ASSY, PAUSE
415	*X-3319-615-1	LEVER ASSY, FWD LOCK
416	A-2108-100-A	HEAD UNIT ASSY (A DECK)
416	A-2108-102-A	HEAD UNIT ASSY (B DECK)
417	*X-3319-618-2	PLATE (B) ASSY, FULCRUM, LEVER
418	*X-3319-619-2	PLATE (A) ASSY, FULCRUM, LEVER
419	....	
420	*X-3319-622-1	CHASSIS ASSY, MECHANICAL

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CAPACITORS:
MF:µF, PF:µµF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : µH

SEMICONDUCTORS
In each case, U : µ, for example:
UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

Parts used in this set differ depending on Serial No. shown below.

FORMER	US model AEP model	Up to Serial No. 802,000 Up to Serial No. 500,200
NEW	US model AEP model E model	Serial No. 802,001 and later Serial No. 500,201 and later Applicable for all sets

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	.1-551-628-00	CORD, POWER			
502	*1-560-039-00	PIN, CONNECTOR			
503	*1-560-242-31	BUS BAR 5P			
504	*1-560-280-00	CONNECTOR PIN 3P			
505	*1-612-725-11	PC BOARD, PH.T			
506	*1-612-727-11	PC BOARD, REC DETECT			
507	*1-612-728-11	PC BOARD, SLIDE SW			
508	*1-612-729-11	PC BOARD, HEAD TRANSLATION			
509	*1-613-522-11	PC BOARD, TRANSLATION			
510	*1-613-523-11	PC BOARD, DETECTION SW			
511	*A-2056-243-A	PC BOARD ASSY, AUDIO			
512	*A-2056-244-A	(US)......PC BOARD ASSY, SYSTEM CONTROL			
512	A-2056-256-A	(AEP,E)...PC BOARD ASSY, SYSTEM CONTROL			
513	*1-613-887-11	(FORMER)...PC BOARD. DUBBING CONTROL			
514	1-806-969-11	PHOTO SENSOR			
515	1-533-162-00	HOLDER, FUSE			
516	*1-613-589-11	PC BOARD, CONTROL SW (A)			
517	*1-613-590-11	PC BOARD, CONTROL SW (B)			
518	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
519	*1-614-396-11	PC BOARD, SLIDE SW			
520	*1-614-697-11	PC BOARD, FUSE			
C001 ⚠	.1-161-744-00	CAP, CERAMIC 10000PF FZ			
C002	1-162-110-00	(US, AEP)CERAMIC	0.001MF	10%	50V
C003	1-162-110-00	(US, AEP)CERAMIC	0.001MF	10%	50V
C004	1-162-110-00	(US, AEP)CERAMIC	0.001MF	10%	50V
C101	1-123-352-00	ELECT	1MF	20%	50V
C102	1-123-316-00	ELECT	10MF	20%	16V
C103	1-162-288-31	CERAMIC	330PF	10%	50V
C104	1-136-157-00	FILM	0.022MF	5%	50V
C105	1-123-355-00	ELECT	4.7MF	20%	50V
C106	1-136-158-00	FILM	0.027MF	5%	50V
C107	1-136-158-00	FILM	0.027MF	5%	50V
C108	1-162-289-31	CERAMIC	390PF	10%	50V
C109	1-136-157-00	FILM	0.022MF	5%	50V
C110	1-123-355-00	ELECT	4.7MF	20%	50V
C111	1-136-158-00	FILM	0.027MF	5%	50V
C112	1-123-380-00	ELECT	1MF	20%	50V
C113	1-123-380-00	ELECT	1MF	20%	50V
C114	1-123-369-00	ELECT	4.7MF	20%	50V
C115	1-136-153-00	FILM	0.01MF	5%	50V
C116	1-136-155-00	FILM	0.015MF	5%	50V
C117	1-136-153-00	FILM	0.01MF	5%	50V
C118	1-136-163-00	FILM	0.068MF	5%	50V
C119	1-136-168-00	FILM	0.18MF	5%	50V
C120	1-136-158-00	FILM	0.027MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C121	1-123-352-00	ELECT	1MF	20%	50V
C122	1-136-168-00	FILM	0.18MF	5%	50V
C123	1-136-170-00	FILM	0.27MF	5%	50V
C124	1-136-166-00	FILM	0.12MF	5%	50V
C125	1-136-163-00	FILM	0.068MF	5%	50V
C126	1-123-369-00	ELECT	4.7MF	20%	50V
C127	1-123-380-00	ELECT	1MF	20%	50V
C128	1-123-307-00	ELECT	100MF	20%	10V
C129	1-123-369-00	ELECT	4.7MF	20%	50V
C130	1-136-157-00	FILM	0.022MF	5%	50V
C131	1-110-205-00	MYLAR	0.0068MF	5%	50V
C132	1-110-206-00	MYLAR	0.0082MF	5%	50V
C133	1-136-154-00	FILM	0.012MF	5%	50V
C134	1-110-205-00	MYLAR	0.0068MF	5%	50V
C136	1-136-161-00	FILM	0.047MF	5%	50V
C137	1-110-206-00	MYLAR	0.0082MF	5%	50V
C138	1-136-153-00	FILM	0.01MF	5%	50V
C139	1-136-158-00	FILM	0.027MF	5%	50V
C140	1-110-202-00	MYLAR	0.0039MF	5%	50V
C141	1-110-197-00	MYLAR	0.0015MF	5%	50V
C145	1-107-169-00	MICA	100PF	5%	500V
C146	1-107-163-00	MICA	47PF	5%	500V
C147	1-162-293-00	CERAMIC	820PF	10%	50V
C148	1-123-369-00	ELECT	4.7MF	20%	50V
C149	1-136-166-00	FILM	0.12MF	5%	50V
C150	1-162-302-31	CERAMIC	0.0022MF	20%	16V
C151	1-162-294-31	CERAMIC	0.001MF	10%	50V
C152	1-162-290-31	CERAMIC	470PF	10%	50V
C301	1-123-611-00	ELECT	1MF	20%	50V
C302	1-123-612-00	ELECT	2.2MF	20%	50V
C303	1-123-611-00	ELECT	1MF	20%	50V
C401	1-123-611-00	ELECT	1MF	20%	50V
C402	1-123-612-00	ELECT	2.2MF	20%	50V
C403	1-123-611-00	ELECT	1MF	20%	50V
C501	1-123-380-00	ELECT	1MF	20%	50V
C502	1-123-380-00	ELECT	1MF	20%	50V
C503	1-123-380-00	ELECT	1MF	20%	50V
C504	1-123-380-00	ELECT	1MF	20%	50V
C505	1-123-369-00	ELECT	4.7MF	20%	50V
C506	1-123-369-00	ELECT	4.7MF	20%	50V
C507	1-129-714-00	FILM	0.01MF	5%	630V
C508	1-130-023-00	FILM	0.0027MF	5%	100V
C509	1-130-289-00	FILM	0.0047MF	5%	100V
C510	1-130-023-00	FILM	0.0027MF	5%	100V
C511	1-124-381-00	ELECT	2.2MF	20%	50V

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In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C512	1-123-379-00	ELECT	0.47MF	20%	50V
C513	1-123-380-00	ELECT	1MF	20%	50V
C514	1-123-380-00	ELECT	1MF	20%	50V
C515	1-123-380-00	ELECT	1MF	20%	50V
C516	1-123-821-00	ELECT	47MF	20%	16V
C801	1-123-337-00	ELECT	1000MF	20%	25V
C802	1-123-337-00	ELECT	1000MF	20%	25V
C803	1-123-336-00	ELECT	470MF	20%	25V
C804	1-123-325-00	ELECT	2200MF	20%	16V
C805	1-123-308-00	ELECT	220MF	20%	10V
C806	1-123-308-00	ELECT	220MF	20%	10V
C807	1-123-298-00	ELECT	470MF	20%	6.3V
C808	1-123-321-00	ELECT	220MF	20%	16V
C809	1-123-307-00	ELECT	100MF	20%	10V
C811	1-123-356-00	ELECT	10MF	20%	16V
C812	1-123-356-00	ELECT	10MF	20%	16V
C813	1-123-381-00	(FORMER)...ELECT	2.2MF	20%	50V
C813	1-123-380-00	(NEW)...ELECT	1MF	20%	50V
C814	1-123-381-00	(FORMER)...ELECT	2.2MF	20%	50V
C814	1-123-382-00	(NEW)...ELECT	3.3MF	20%	50V
C815	1-123-356-00	ELECT	10MF	20%	16V
C816	1-123-380-00	ELECT	1MF	20%	50V
C817	1-123-380-00	ELECT	1MF	20%	50V
C818	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C819	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C820	1-123-381-00	ELECT	2.2MF	20%	50V
C821	1-123-356-00	ELECT	10MF	20%	16V
C822	1-123-356-00	ELECT	10MF	20%	16V
C823	1-123-369-00	ELECT	4.7MF	20%	25V
C824	1-123-369-00	(FORMER)...ELECT	4.7MF	20%	25V
C825	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C826	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C827	1-123-356-00	ELECT	10MF	20%	16V
C831	1-162-108-00	CERAMIC	680PF	10%	50V
C832	1-162-111-00	CERAMIC	0.0022MF	30%	25V
C833	1-162-110-00	CERAMIC	0.001MF	10%	50V
C834	1-162-100-00	CERAMIC	150PF	10%	50V
C835	1-162-100-00	CERAMIC	150PF	10%	50V
C836	1-162-029-00	(FORMER)...CERAMIC	47PF	5%	50V
C836	1-162-037-00	(NEW)...ELECT	100PF	5%	50V
C837	1-162-029-00	(FORMER)...CERAMIC	47PF	5%	50V
C837	1-162-037-00	(NEW)...ELECT	100PF	5%	50V
C838	1-162-113-00	CERAMIC	0.01MF	30%	16V
C839	1-162-113-00	CERAMIC	0.01MF	30%	16V
C840	1-102-852-00	CERAMIC	47PF	5%	50V
C841	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C842	1-123-356-00	(FORMER)...ELECT	10MF	20%	16V
C843	1-123-380-00	ELECT	1MF	20%	50V
C844	1-123-298-00	(FORMER)...ELECT	47MF	20%	6.3V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C845	1-123-332-00	ELECT	47MF	20%	25V
C846	1-162-305-31	CERAMIC	0.0068MF	30%	16V
C847	1-162-305-31	CERAMIC	0.0068MF	30%	16V
C851	1-123-356-00	ELECT	10MF	20%	16V
C852	1-123-356-00	ELECT	10MF	20%	16V
C871	1-123-356-00	ELECT	10MF	20%	16V
C872	1-123-356-00	ELECT	10MF	20%	16V
CNP301	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP302	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP303	*1-564-336-00	PIN, CONNECTOR 2P			
CNP304	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP305	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP306	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP801	*1-564-341-11	PIN, CONNECTOR 7P			
CNP802	*1-564-339-00	PIN, CONNECTOR 5P			
CNP803	*1-564-338-00	PIN, CONNECTOR 4P			
CNP804	*1-564-337-00	PIN, CONNECTOR 3P			
CNP805	*1-564-337-00	PIN, CONNECTOR 3P			
CNP806	*1-564-336-00	PIN, CONNECTOR 2P			
CNP809	*1-564-337-00	PIN, CONNECTOR 3P			
CNP810	*1-564-338-00	PIN, CONNECTOR 4P			
CNP811	*1-564-336-00	PIN, CONNECTOR 2P			
CNP812	*1-564-341-11	PIN, CONNECTOR 7P			
CNP813	*1-564-507-11	PLUG, CONNECTOR 4P			
CNP814	*1-564-505-31	PLUG, CONNECTOR 2P			
CNP815	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP816	*1-564-505-21	PLUG, CONNECTOR 2P			
CNP817	*1-564-505-41	PLUG, CONNECTOR 2P			
CNP818	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP819	*1-564-507-11	PLUG, CONNECTOR 4P			
CNP820	*1-564-505-31	PLUG, CONNECTOR 2P			
CNP821	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP822	*1-564-505-21	PLUG, CONNECTOR 2P			
CNP823	*1-564-505-41	PLUG, CONNECTOR 2P			
CNP824	*1-564-342-11	PIN, CONNECTOR 8P			
CNP825	*1-564-336-00	PIN, CONNECTOR 2P			
CNP826	*1-564-336-00	PIN, CONNECTOR 2P			
CNP830	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP831	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP833	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP834	*1-564-508-11	PLUG, CONNECTOR 5P			
CNP835	*1-564-506-11	PLUG, CONNECTOR 3P			
CT501	1-141-225-00	CAP, TUNING, TRIMAR			
D501	8-719-107-94	DIODE 1SS202-1			
D502	8-719-107-94	DIODE 1SS202-1			
D503	8-719-107-94	DIODE 1SS202-1			
D504	8-719-107-94	DIODE 1SS202-1			
D505	8-719-107-94	DIODE 1SS202-1			
D506	8-719-107-94	DIODE 1SS202-1			

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ELECTRICAL PARTS

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D507	8-719-107-94	DIODE 1SS202-1
D508	8-719-107-94	DIODE 1SS202-1
D509	8-719-107-94	DIODE 1SS202-1
D510	8-719-107-94	DIODE 1SS202-1
D511	8-719-107-94	DIODE 1SS202-1
D801	8-719-200-23	DIODE 11E2
D802	8-719-200-23	DIODE 11E2
D803	8-719-200-23	DIODE 11E2
D804	8-719-200-23	DIODE 11E2
D805	8-719-200-23	DIODE 11E2
D806	8-719-200-23	DIODE 11E2
D807	8-719-200-23	DIODE 11E2
D808	8-719-200-23	DIODE 11E2
D810	1-806-969-11	PHOTO SENSOR
D811	8-719-107-94	DIODE 1SS202-1
D812	8-719-107-94	DIODE 1SS202-1
D813	8-719-107-94	DIODE 1SS202-1
D814	8-719-107-94	DIODE 1SS202-1
D815	8-719-107-94	DIODE 1SS202-1
D816	8-719-107-94	DIODE 1SS202-1
D817	8-719-107-94	DIODE 1SS202-1
D819	8-719-107-94	(FORMER)...DIODE 1SS202-1
D820	8-719-107-94	(FORMER)...DIODE 1SS202-1
D821	8-719-107-94	DIODE 1SS202-1
D822	8-719-107-94	(FORMER)...DIODE 1SS202-1
D823	8-719-107-94	(FORMER)...DIODE 1SS202-1
D824	8-719-107-94	(FORMER)...DIODE 1SS202-1
D825	8-719-107-94	DIODE 1SS202-1
D826	8-719-107-94	(FORMER)...DIODE 1SS202-1
D827	8-719-107-94	(FORMER)...DIODE 1SS202-1
D828	8-719-107-94	(FORMER)...DIODE 1SS202-1
D829	8-719-107-94	DIODE 1SS202-1
D830	8-719-107-94	(AEP,E)...DIODE 1SS202-1
D831	8-719-107-94	(AEP,E)...DIODE 1SS202-1
D832	8-719-107-94	(FORMER)...DIODE 1SS202-1
D833	8-719-107-94	(FORMER)...DIODE 1SS202-1
D834	8-719-107-94	(FORMER)...DIODE 1SS202-1
D835	8-719-107-94	(FORMER)...DIODE 1SS202-1
D836	8-719-107-94	(FORMER)...DIODE 1SS202-1
D837	8-719-107-94	(FORMER)...DIODE 1SS202-1
D838	8-719-107-94	(FORMER)...DIODE 1SS202-1
D839	8-719-107-94	(FORMER)...DIODE 1SS202-1
D840	8-719-107-94	(FORMER)...DIODE 1SS202-1
D841	8-719-107-94	(FORMER)...DIODE 1SS202-1
D842	8-719-107-94	(FORMER)...DIODE 1SS202-1

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D843	8-719-107-94	(FORMER)...DIODE 1SS202-1
D844	8-719-107-94	(FORMER)...DIODE 1SS202-1
D845	8-719-107-94	(FORMER)...DIODE 1SS202-1
D846	8-719-107-94	(FORMER)...DIODE 1SS202-1
D847	8-719-107-94	(FORMER)...DIODE 1SS202-1
D848	8-719-107-94	DIODE 1SS202-1
D849	8-719-107-94	(FORMER)...DIODE 1SS202-1
D851	8-719-107-94	DIODE 1SS202-1
D852	8-719-107-94	DIODE 1SS202-1
D853	8-719-107-94	DIODE 1SS202-1
D854	8-719-107-94	DIODE 1SS202-1
D855	8-719-107-94	DIODE 1SS202-1
D871	8-719-107-94	DIODE 1SS202-1
D872	8-719-107-94	DIODE 1SS202-1
D873	8-719-107-94	DIODE 1SS202-1
D874	8-719-107-94	DIODE 1SS202-1
D875	8-719-107-94	DIODE 1SS202-1
D890	8-719-913-59	DIODE LT-9230D
D891	8-719-913-59	DIODE LT-9230D
D892	8-719-919-20	DIODE GL-9NG260
D893	8-719-919-20	DIODE GL-9NG260
D894	8-719-919-12	DIODE GL-9ND12
D895	8-719-919-12	DIODE GL-9ND12
D896	8-719-909-20	(AEP,E)....DIODE GL-9NG2
D897	8-719-909-20	(AEP,E)....DIODE GL-9NG2
D898	8-719-909-20	DIODE GL-9NG2
D899	8-719-919-24	DIODE GL-9HY22
D901	8-719-107-94	(FORMER)...DIODE 1SS202-1
D902	8-719-107-94	(FORMER)...DIODE 1SS202-1
D903	8-719-107-94	(FORMER)...DIODE 1SS202-1
D904	8-719-107-94	(FORMER)...DIODE 1SS202-1
D905	8-719-107-94	(FORMER)...DIODE 1SS202-1
D906	8-719-107-94	(FORMER)...DIODE 1SS202-1
D907	8-719-107-94	(FORMER)...DIODE 1SS202-1
D908	8-719-107-94	(FORMER)...DIODE 1SS202-1
D909	8-719-107-94	(FORMER)...DIODE 1SS202-1
D910	8-719-107-94	(FORMER)...DIODE 1SS202-1
D911	8-719-107-94	(FORMER)...DIODE 1SS202-1
D912	8-719-107-94	(FORMER)...DIODE 1SS202-1
D913	8-719-107-94	(FORMER)...DIODE 1SS202-1
D914	8-719-107-94	(FORMER)...DIODE 1SS202-1
D915	8-719-107-94	(FORMER)...DIODE 1SS202-1
D916	8-719-107-94	DIODE 1SS202-1
F801	⚠1-532-285-00	(AEP,E)....FUSE, TIME-LAG
F801	⚠1-532-570-00	(US).....FUSE, GLASS TUBE

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Ref.No.	Part No.	Description
IC101	8-752-002-80	IC CX20028
IC102	8-759-140-66	IC UPD4066BC
IC103	8-759-140-66	IC UPD4066BC
IC201	8-752-002-70	IC CX20027
IC202	8-759-140-66	IC UPD4066BC
IC203	8-759-140-66	IC UPD4066BC
IC301	8-759-912-79	IC IR2E02
IC401	8-759-912-79	IC IR2E02
IC501	8-759-145-58	IC UPC4558C
IC502	8-759-700-04	IC NJM2043D-D
IC503	8-759-700-04	IC NJM2043D-D
IC504	8-759-145-58	IC UPD4558C
IC505	8-759-145-58	IC UPD4558C
IC506	8-759-145-58	IC UPD4558C
IC507	8-759-140-66	IC UPD4066BC
IC508	8-759-140-66	IC UPD4066BC
IC509	8-759-140-01	IC UPD4001BC
IC510	8-759-140-01	IC UPD4001BC
IC511	8-759-984-11	IC MB84011B
IC801	8-759-700-47	IC CX10035
IC802	8-759-602-14	IC M50761-412P
IC803	8-759-600-55	IC M50784SP
IC804	8-759-200-82	IC TC4069UBF
IC805	8-759-201-01	IC TC4066BF
IC806	8-759-913-35	(FORMER)...IC MB88421-160M
IC806	8-759-915-40	(NEW)...IC MB88421-179M
IC807	8-759-913-36	IC MB8844-1341K
IC808	8-759-340-01	(FORMER)...IC HD14001BP
IC809	8-759-340-11	(FORMER)...IC HD14011BP
IC810	8-759-340-11	(FORMER)...IC HD14011BP
IC811	8-759-340-23	(FORMER)...IC HD14023BP
J301	1-507-909-11	JACK, PIN 4P
J302	1-507-796-21	JACK
L101	1-408-918-11	MICRO INDUCTOR 3.3MMH
L102	1-408-918-11	MICRO INDUCTOR 3.3MMH
L103	1-408-918-11	MICRO INDUCTOR 3.3MMH
L104	1-408-923-00	MICRO INDUCTOR 8.2MMH
L105	1-408-923-00	MICRO INDUCTOR 8.2MMH
L106	1-408-929-00	MICRO INDUCTOR 27MMH
L107	1-408-929-00	MICRO INDUCTOR 27MMH
L201	1-408-918-11	MICRO INDUCTOR 3.3MMH
L202	1-408-918-11	MICRO INDUCTOR 3.3MMH
L203	1-408-918-11	MICRO INDUCTOR 3.3MMH
L204	1-408-923-00	MICRO INDUCTOR 8.2MMH
L205	1-408-923-00	MICRO INDUCTOR 8.2MMH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L206	1-408-929-00	MICRO INDUCTOR 27MMH
L207	1-408-929-00	MICRO INDUCTOR 27MMH
L501	1-408-096-00	MICRO INDUCTOR 470UH
LED301	1-806-968-11	DIODE (LED BLOCK)
LED302	1-806-967-11	DIODE (LED BLOCK)
LED401	1-806-968-11	DIODE (LED BLOCK)
LED402	1-806-967-11	DIODE (LED BLOCK)
LPF101	1-231-388-00	FILTER, LOW PASS
LPF102	1-235-186-00	ENCAPSULATED COMPONENT
LPF201	1-231-388-00	FILTER, LOW PASS
LPF202	1-235-186-00	ENCAPSULATED COMPONENT
M861	8-835-124-01	MOTOR, DC (DNE-7101A)
M862	1-541-163-00	MOROR REEL
M881	8-835-124-01	MOTOR, DC (DNE-7101A)
PL861	1-518-563-11	LAMP, PILOT
PL881	1-518-563-11	LAMP, PILOT
PM861	1-454-316-00	SOLENOID
PM862	1-454-316-00	SOLENOID, PLUNGER
PM863	1-454-374-11	SOLENOID, PLUNGER
PM881	1-454-316-00	SOLENOID
PM882	1-454-316-00	SOLENOID, PLUNGER
PM883	1-454-374-11	SOLENOID, PLUNGER
PS801	1-532-605-00	LINK, IC
PS802	1-532-605-00	LINK, IC
Q101	8-729-900-74	TRANSISTOR DTC143TS
Q102	8-729-900-74	TRANSISTOR DTC143TS
Q103	8-729-900-74	TRANSISTOR DTC143TS
Q104	8-729-900-74	TRANSISTOR DTC143TS
Q105	8-729-900-80	TRANSISTOR DTC114ES
Q106	8-729-900-80	TRANSISTOR DTC114ES
Q107	8-729-900-80	TRANSISTOR DTC114ES
Q108	8-729-900-80	TRANSISTOR DTC114ES
Q109	8-729-900-80	TRANSISTOR DTC114ES
Q110	8-729-900-80	TRANSISTOR DTC114ES
Q111	8-729-606-33	TRANSISTOR 2SC2603F
Q201	8-729-900-74	TRANSISTOR DTC143TS
Q202	8-729-900-74	TRANSISTOR DTC143TS
Q203	8-729-900-74	TRANSISTOR DTC143TS
Q204	8-729-900-74	TRANSISTOR DTC143TS
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q206	8-729-900-80	TRANSISTOR DTC114ES
Q207	8-729-900-80	TRANSISTOR DTC114ES
Q208	8-729-900-80	TRANSISTOR DTC114ES
Q209	8-729-900-80	TRANSISTOR DTC114ES
Q210	8-729-900-80	TRANSISTOR DTC114ES

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RESISTORS
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COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q211	8-729-606-33	TRANSISTOR 2SC2603F
Q501	8-729-178-55	TRANSISTOR 2SC2785
Q502	8-729-178-55	TRANSISTOR 2SC2785
Q503	8-729-178-55	TRANSISTOR 2SC2785
Q504	8-729-900-80	TRANSISTOR DTC114ES
Q505	8-729-900-61	TRANSISTOR DTA114ES
Q506	8-729-900-61	TRANSISTOR DTA114ES
Q507	8-729-900-61	TRANSISTOR DTA114ES
Q801	8-729-201-78	TRANSISTOR 2SD1406
Q802	8-729-141-42	TRANSISTOR 2SD414-R
Q803	8-729-141-42	TRANSISTOR 2SD414-R
Q804	8-729-154-82	TRANSISTOR 2SB548-R
Q805	8-729-178-55	TRANSISTOR 2SC2785E
Q806	8-729-178-55	TRANSISTOR 2SC2785E
Q807	8-729-117-54	TRANSISTOR 2SA1175
Q810	8-729-900-80	TRANSISTOR DTC114ES
Q811	8-729-900-65	TRANSISTOR DTA144ES
Q812	8-729-900-65	TRANSISTOR DTA144ES
Q813	8-729-900-65	TRANSISTOR DTA144ES
Q814	8-729-900-89	TRANSISTOR DTC144ES
Q815	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q816	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q821	8-729-900-65	TRANSISTOR DTA144ES
Q822	8-729-900-65	TRANSISTOR DTA144ES
Q823	8-729-900-65	TRANSISTOR DTA144ES
Q824	8-729-900-65	TRANSISTOR DTA144ES
Q825	8-729-900-65	TRANSISTOR DTA144ES
Q826	8-729-900-65	TRANSISTOR DTA144ES
Q827	8-729-900-65	(FORMER)...TRANSISTOR DTA114ES
Q828	8-729-900-65	TRANSISTOR DTA144ES
Q829	8-729-900-65	TRANSISTOR DTA144ES
Q830	8-729-900-65	TRANSISTOR DTA144ES
Q831	8-729-900-65	TRANSISTOR DTA144ES
Q832	8-729-900-65	(AEP, E)...TRANSISTOR DTA144ES
Q833	8-729-900-65	(AEP, E)...TRANSISTOR DTA144ES
Q834	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q835	8-729-900-61	TRANSISTOR DTA114ES
Q836	8-729-900-61	TRANSISTOR DTA114ES
Q837	8-729-900-61	TRANSISTOR DTA114ES
Q838	8-729-900-61	TRANSISTOR DTA114ES
Q839	8-729-900-61	TRANSISTOR DTA114ES
Q840	8-729-900-61	TRANSISTOR DTA114ES
Q841	8-729-900-61	TRANSISTOR DTA114ES
Q842	8-729-900-61	TRANSISTOR DTA114ES
Q843	8-729-900-61	TRANSISTOR DTA114ES
Q844	8-729-900-89	TRANSISTOR DTC144ES
Q845	8-729-900-89	TRANSISTOR DTC144ES
Q846	8-729-900-89	TRANSISTOR DTC144ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q851	8-729-102-03	TRANSISTOR 2SD1020
Q852	8-729-800-83	TRANSISTOR 2SB808
Q853	8-729-800-83	TRANSISTOR 2SB808
Q854	8-729-102-03	TRANSISTOR 2SD1020
Q855	8-729-102-03	TRANSISTOR 2SD1020
Q856	8-729-102-03	TRANSISTOR 2SD1020
Q857	8-729-101-02	TRANSISTOR PH102
Q858	8-729-178-55	TRANSISTOR 2SC2785E
Q861	8-729-900-61	TRANSISTOR DTA114ES
Q862	8-729-900-61	TRANSISTOR DTA114ES
Q863	8-729-900-61	TRANSISTOR DTA114ES
Q864	8-729-900-61	TRANSISTOR DTA114ES
Q865	8-729-900-89	TRANSISTOR DTC144ES
Q866	8-729-900-65	TRANSISTOR DTA144ES
Q871	8-729-102-03	TRANSISTOR 2SD1020
Q872	8-729-800-83	TRANSISTOR 2SB808
Q873	8-729-800-83	TRANSISTOR 2SB808
Q874	8-729-102-03	TRANSISTOR 2SD1020
Q875	8-729-102-03	TRANSISTOR 2SD1020
Q876	8-729-102-03	TRANSISTOR 2SD1020
Q877	8-729-101-02	TRANSISTOR PH102
Q878	8-729-178-55	TRANSISTOR 2SC2785E
Q879	8-729-178-55	TRANSISTOR 2SC2785E
Q881	8-729-900-61	TRANSISTOR DTA114ES
Q882	8-729-900-61	TRANSISTOR DTA114ES
Q883	8-729-900-61	TRANSISTOR DTA114ES
Q884	8-729-900-61	TRANSISTOR DTA114ES
Q885	8-729-900-89	TRANSISTOR DTC144ES
Q886	8-729-900-65	TRANSISTOR DTA144ES
Q899	8-729-245-83	TRANSISTOR 2SC2458
Q901	8-729-900-65	(FORMER)...TRANSISTOR DTA114ES
Q902	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q903	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q904	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q905	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q906	8-729-900-89	(FORMER)...TRANSISTOR DTA114ES
Q907	8-729-900-80	TRANSISTOR DTC114ES
R101	1-247-717-00	CARBON 2.2K 5% 1/4W
R102	1-247-164-00	CARBON 24K 5% 1/4W
R104	1-247-879-00	CARBON 100K 5% 1/6W
R105	1-247-843-00	CARBON 3.3K 5% 1/6W
R106	1-247-851-00	CARBON 6.8K 5% 1/6W
R107	1-247-855-00	CARBON 10K 5% 1/6W
R108	1-247-877-00	CARBON 82K 5% 1/6W
R109	1-247-807-00	CARBON 100 5% 1/6W
R110	1-247-882-00	CARBON 130K 5% 1/6W

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MF:μF, PF:μμF.

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- All resistors are in ohms.
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COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

Parts used in this set differ depending on Serial No. shown below.

FORMER	US model AEP model	Up to Serial No. 802,000 Up to Serial No. 500,200
NEW	US model AEP model E model	Serial No. 802,001 and later Serial No. 500,201 and later Applicable for all sets

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R111	1-247-850-00	CARBON	6.2K	5%	1/6W
R112	1-249-421-11	CARBON	2.2K	5%	1/6W
R113	1-247-841-00	CARBON	2.7K	5%	1/6W
R114	1-247-887-00	CARBON	220K	5%	1/6W
R115	1-249-421-11	CARBON	2.2K	5%	1/6W
R116	1-247-887-00	CARBON	220K	5%	1/6W
R117	1-247-833-00	CARBON	1.2K	5%	1/6W
R118	1-247-867-00	CARBON	33K	5%	1/6W
R119	1-247-807-00	CARBON	100	5%	1/6W
R120	1-247-882-00	CARBON	130K	5%	1/6W
R121	1-247-848-00	CARBON	5.1K	5%	1/6W
R122	1-249-421-11	CARBON	2.2K	5%	1/6W
R123	1-247-841-00	CARBON	2.7K	5%	1/6W
R124	1-247-887-00	CARBON	220K	5%	1/6W
R125	1-247-879-00	CARBON	100K	5%	1/6W
R128	1-247-871-00	CARBON	47K	5%	1/6W
R129	1-247-823-00	CARBON	470	5%	1/6W
R130	1-247-823-00	CARBON	470	5%	1/6W
R131	1-247-879-00	CARBON	100K	5%	1/6W
R132	1-247-835-00	CARBON	1.5K	5%	1/6W
R139	1-247-869-00	CARBON	39K	5%	1/6W
R140	1-247-846-00	CARBON	4.3K	5%	1/6W
R141	1-247-895-00	CARBON	470K	5%	1/6W
R142	1-247-822-00	CARBON	430	5%	1/6W
R143	1-247-841-00	CARBON	2.7K	5%	1/6W
R144	1-214-776-00	METAL	91K	1%	1/4W
R145	1-247-838-00	CARBON	2K	5%	1/6W
R146	1-247-871-00	CARBON	47K	5%	1/6W
R147	1-247-848-00	CARBON	5.1K	5%	1/6W
R148	1-247-820-00	CARBON	360	5%	1/6W
R149	1-247-845-00	CARBON	3.9K	5%	1/6W
R150	1-247-886-00	CARBON	200K	5%	1/6W
R151	1-247-887-00	CARBON	220K	5%	1/6W
R152	1-247-845-00	CARBON	3.9K	5%	1/6W
R153	1-247-887-00	CARBON	220K	5%	1/6W
R154	1-247-888-00	CARBON	240K	5%	1/6W
R155	1-247-888-00	CARBON	240K	5%	1/6W
R157	1-247-855-00	CARBON	10K	5%	1/6W
R158	1-247-831-00	CARBON	1K	5%	1/6W
R159	1-247-853-00	CARBON	8.2K	5%	1/6W
R160	1-247-843-00	CARBON	3.3K	5%	1/6W
R161	1-247-867-00	CARBON	33K	5%	1/6W
R162	1-247-879-00	CARBON	100K	5%	1/6W
R163	1-247-879-00	CARBON	100K	5%	1/6W
R164	1-247-887-00	CARBON	220K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R165	1-247-853-00	CARBON	8.2K	5%	1/6W
R166	1-247-867-00	CARBON	33K	5%	1/6W
R167	1-247-867-00	CARBON	33K	5%	1/6W
R168	1-247-843-00	CARBON	3.3K	5%	1/6W
R169	1-247-807-00	CARBON	100	5%	1/6W
R170	1-247-859-00	CARBON	15K	5%	1/6W
R171	1-247-807-00	CARBON	100	5%	1/6W
R172	1-247-853-00	CARBON	8.2K	5%	1/6W
R173	1-247-853-00	CARBON	8.2K	5%	1/6W
R174	1-247-815-00	CARBON	220	5%	1/6W
R176	1-247-846-00	CARBON	4.3K	5%	1/6W
R177	1-247-867-00	CARBON	33K	5%	1/6W
R178	1-247-867-00	CARBON	33K	5%	1/6W
R179	1-247-843-00	CARBON	3.3K	5%	1/6W
R180	1-247-807-00	CARBON	100	5%	1/6W
R181	1-247-859-00	CARBON	15K	5%	1/6W
R182	1-247-809-00	CARBON	120	5%	1/6W
R183	1-247-853-00	CARBON	8.2K	5%	1/6W
R184	1-247-854-00	CARBON	9.1K	5%	1/6W
R185	1-247-819-00	CARBON	330	5%	1/6W
R186	1-247-849-00	CARBON	5.6K	5%	1/6W
R187	1-247-847-00	CARBON	4.7K	5%	1/6W
R188	1-247-855-00	CARBON	10K	5%	1/6W
R189	1-247-867-00	CARBON	33K	5%	1/6W
R190	1-247-865-00	CARBON	27K	5%	1/6W
R191	1-247-815-00	CARBON	220	5%	1/6W
R192	1-247-835-00	CARBON	1.5K	5%	1/6W
R193	1-247-869-00	CARBON	39K	5%	1/6W
R194	1-247-879-00	CARBON	100K	5%	1/6W
R195	1-247-847-00	CARBON	4.7K	5%	1/6W
R196	1-247-823-00	CARBON	470	5%	1/6W
R301	1-214-879-00	CARBON	100K	1%	1/6W
R302	1-247-861-00	CARBON	18K	5%	1/6W
R303	1-247-879-00	CARBON	100K	5%	1/6W
R304	1-247-855-00	CARBON	10K	5%	1/6W
R305	1-247-855-00	CARBON	10K	5%	1/6W
R306	1-247-878-00	CARBON	91K	5%	1/6W
R307	1-247-831-00	CARBON	1K	5%	1/6W
R401	1-247-879-00	CARBON	100K	5%	1/6W
R402	1-247-861-00	CARBON	18K	5%	1/6W
R403	1-247-879-00	CARBON	100K	5%	1/6W
R404	1-247-855-00	CARBON	10K	5%	1/6W
R405	1-247-855-00	CARBON	10K	5%	1/6W
R406	1-247-878-00	CARBON	91K	5%	1/6W
R407	1-247-831-00	CARBON	1K	5%	1/6W

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ELECTRICAL PARTS

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R501	1-247-855-00	CARBON 10K 5% 1/6W
R502	1-247-873-00	CARBON 56K 5% 1/6W
R503	1-247-873-00	CARBON 56K 5% 1/6W
R504	1-217-527-00	FUSIBLE 22 5% 1/4W
R505	1-247-855-00	CARBON 10K 5% 1/6W
R506	1-247-843-00	CARBON 3.3K 5% 1/6W
R507	1-247-816-00	CARBON 240 5% 1/6W
R508	1-247-850-00	CARBON 6.2K 5% 1/6W
R509	1-247-856-00	CARBON 11K 5% 1/6W
R510	1-247-855-00	CARBON 10K 5% 1/6W
R511	1-247-855-00	CARBON 10K 5% 1/6W
R512	1-247-855-00	CARBON 10K 5% 1/6W
R513	1-247-879-00	CARBON 100K 5% 1/6W
R514	1-247-879-00	CARBON 100K 5% 1/6W
R515	1-247-855-00	CARBON 10K 5% 1/6W
R516	1-247-871-00	CARBON 47K 5% 1/6W
R801	1-247-826-00	CARBON 620 5% 1/6W
R802	1-249-421-00	CARBON 2.2K 5% 1/6W
R803	1-247-847-00	CARBON 4.7K 5% 1/6W
R804	1-247-824-00	CARBON 510 5% 1/6W
R805	1-247-857-00	CARBON 12K 5% 1/6W
R806	1-249-421-00	CARBON 2.2K 5% 1/6W
R807	1-247-858-00	CARBON 13K 5% 1/6W
R808	1-247-838-00	CARBON 2K 5% 1/6W
R810	1-247-815-00	CARBON 220 5% 1/6W
R811	1-247-903-00	CARBON 1M 5% 1/6W
R812	1-247-879-00	CARBON 100K 5% 1/6W
R813	1-247-903-00	CARBON 1M 5% 1/6W
R814	1-247-887-00	CARBON 220K 5% 1/6W
R815	1-247-879-00	CARBON 100K 5% 1/6W
R816	1-247-877-00	CARBON 82K 5% 1/6W
R817	1-247-823-00	CARBON 470 5% 1/6W
R818	1-247-879-00	CARBON 100K 5% 1/6W
R819	1-247-847-00	CARBON 4.7K 5% 1/6W
R820	1-247-827-00	CARBON 680 5% 1/6W
R821	1-247-861-00	CARBON 18K 5% 1/6W
R822	1-247-879-00	CARBON 100K 5% 1/6W
R823	1-247-831-00	CARBON 1K 5% 1/6W
R824	1-247-873-00	CARBON 56K 5% 1/6W
R825	1-247-860-00	(FORMER)...CARBON 16K 5% 1/6W
R826	1-247-899-00	CARBON 680K 5% 1/6W
R827	1-247-873-00	CARBON 56K 5% 1/6W
R828	1-247-873-00	CARBON 56K 5% 1/6W
R829	1-247-849-00	CARBON 5.6K 5% 1/6W
R830	1-247-831-00	CARBON 1K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R831	1-247-879-00	CARBON 100K 5% 1/6W
R832	1-247-879-00	CARBON 100K 5% 1/6W
R833	1-247-863-00	CARBON 22K 5% 1/6W
R834	1-247-879-00	(FORMER)...CARBON 100K 5% 1/6W
R834	1-247-875-00	(NEW)...CARBON 68K 5% 1/6W
R835	1-247-879-00	(FORMER)...CARBON 100K 5% 1/6W
R835	1-247-875-00	(NEW)...CARBON 68K 5% 1/6W
R836	1-247-863-00	CARBON 22K 5% 1/6W
R837	1-247-831-00	CARBON 1K 5% 1/6W
R838	1-247-831-00	CARBON 1K 5% 1/6W
R839	1-247-831-00	CARBON 1K 5% 1/6W
R840	1-247-831-00	CARBON 1K 5% 1/6W
R843	1-247-831-00	CARBON 1K 5% 1/6W
R844	1-247-831-00	CARBON 1K 5% 1/6W
R845	1-247-831-00	CARBON 1K 5% 1/6W
R846	1-247-831-00	CARBON 1K 5% 1/6W
R847	1-247-831-00	CARBON 1K 5% 1/6W
R848	1-247-831-00	CARBON 1K 5% 1/6W
R849	1-247-831-00	CARBON 1K 5% 1/6W
R850	1-247-831-00	CARBON 1K 5% 1/6W
R851	1-247-831-00	CARBON 1K 5% 1/6W
R852	1-247-831-00	CARBON 1K 5% 1/6W
R853	1-247-831-00	CARBON 1K 5% 1/6W
R854	1-247-831-00	CARBON 1K 5% 1/6W
R855	1-247-831-00	CARBON 1K 5% 1/6W
R856	1-247-831-00	CARBON 1K 5% 1/6W
R857	1-247-831-00	CARBON 1K 5% 1/6W
R858	1-247-831-00	CARBON 1K 5% 1/6W
R859	1-247-847-00	CARBON 4.7K 5% 1/6W
R860	1-247-847-00	CARBON 4.7K 5% 1/6W
R861	1-247-783-00	CARBON 10 5% 1/6W
R862	1-247-807-00	CARBON 100 5% 1/6W
R863	1-247-863-00	(FORMER)...CARBON 22K 5% 1/6W
R863	1-247-861-00	(NEW)...CARBON 18K 5% 1/6W
R864	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W
R864	1-247-857-00	(NEW)...CARBON 12K 5% 1/6W
R865	1-247-861-00	CARBON 18K 5% 1/6W
R866	1-247-903-00	CARBON 1M 5% 1/6W
R867	1-247-841-00	CARBON 2.7K 5% 1/6W
R868	1-247-879-00	CARBON 100K 5% 1/6W
R872	1-247-831-00	CARBON 1K 5% 1/6W
R873	1-247-831-00	(FORMER)...CARBON 1K 5% 1/6W
R874	1-247-881-00	(FORMER)...CARBON 120K 5% 1/6W
R875	1-247-873-00	CARBON 56K 5% 1/6W
R876	1-247-867-00	(AEP, E)...CARBON 33K 5% 1/6W
R877	1-247-867-00	(AEP, E)...CARBON 33K 5% 1/6W
R878	1-247-861-00	(US)...CARBON 18K 5% 1/6W
R878	1-247-843-00	(AEP, E)...CARBON 4.7K 5% 1/6W
R879	1-247-861-00	(US)...CARBON 18K 5% 1/6W
R879	1-247-843-00	(AEP, E)...CARBON 4.7K 5% 1/6W
R880	1-247-807-00	CARBON 100 5% 1/6W

NOTE:

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- If there are two or more same circuitsin 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:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

Parts used in this set differ depending on Serial No. shown below.

FORMER	US model AEP model	Up to Serial No. 802,000 Up to Serial No. 500,200
NEW	US model AEP model E model	Serial No. 802,001 and later Serial No. 500,201 and later Applicable for all sets

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R881	1-247-807-00	CARBON 100 5% 1/6W
R885	1-247-815-00	CARBON 220 5% 1/6W
R886	1-247-815-00	CARBON 220 5% 1/6W
R887	1-247-811-00	CARBON 150 5% 1/6W
R888	1-247-811-00	CARBON 150 5% 1/6W
R889	1-247-811-00	CARBON 150 5% 1/6W
R890	1-247-819-00	(AEP, E)...CARBON 330 5% 1/6W
R891	1-247-815-00	CARBON 220 5% 1/6W
R892	1-247-819-00	CARBON 330 5% 1/6W
R893	1-247-887-00	(FORMER)...CARBON 220K 5% 1/6W
R894	1-247-863-00	CARBON 22K 5% 1/6W
R895	1-249-421-11	CARBON 2.2K 5% 1/6W
R896	1-247-873-00	CARBON 56K 5% 1/6W
R897	1-247-867-00	CARBON 33K 5% 1/6W
R899	1-247-861-00	CARBON 18K 5% 1/6W
R901	1-247-823-00	CARBON 470 5% 1/6W
R902	1-247-822-00	CARBON 430 5% 1/6W
R903	1-247-831-00	CARBON 1K 5% 1/6W
R904	1-247-831-00	CARBON 1K 5% 1/6W
R905	1-247-831-00	CARBON 1K 5% 1/6W
R906	1-247-831-00	CARBON 1K 5% 1/6W
R907	1-247-831-00	CARBON 1K 5% 1/6W
R908	1-247-866-00	CARBON 30K 5% 1/6W
R909	1-247-866-00	CARBON 30K 5% 1/6W
R911	1-247-823-00	CARBON 470 5% 1/6W
R912	1-247-822-00	CARBON 430 5% 1/6W
R913	1-247-831-00	CARBON 1K 5% 1/6W
R914	1-247-831-00	CARBON 1K 5% 1/6W
R915	1-247-831-00	CARBON 1K 5% 1/6W
R916	1-247-831-00	CARBON 1K 5% 1/6W
R917	1-247-831-00	CARBON 1K 5% 1/6W
R918	1-247-866-00	CARBON 30K 5% 1/6W
R919	1-247-866-00	CARBON 30K 5% 1/6W
R920	1-247-847-00	CARBON 4.7K 5% 1/6W
R941	1-247-883-00	(FORMER)...CARBON 150K 5% 1/6W
R942	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W
R943	1-247-883-00	(FORMER)...CARBON 150K 5% 1/6W
R944	1-247-867-00	CARBON 33K 5% 1/6W
R945	1-247-843-00	(FORMER)...CARBON 3.3K 5% 1/6W
R946	1-247-843-00	(FORMER)...CARBON 3.3K 5% 1/6W
R947	1-247-843-00	(FORMER)...CARBON 3.3K 5% 1/6W
R948	1-247-831-00	CARBON 1K 5% 1/6W
R949	1-247-831-00	CARBON 1K 5% 1/6W
R950	1-247-823-00	CARBON 470 5% 1/6W
R951	1-247-867-00	(FORMER)...CARBON 33K 5% 1/6W
R952	1-247-867-00	(FORMER)...CARBON 33K 5% 1/6W
R953	1-247-879-00	(FORMER)...CARBON 100K 5% 1/6W
R954	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W
R955	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R956	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W
R957	1-247-861-00	(FORMER)...CARBON 18K 5% 1/6W
R958	1-247-831-00	CARBON 1K 5% 1/6W
RV101	1-230-577-11	RES, VAR, SLIDE 20K
RV102	1-226-236-00	RES, ADJ, CARBON 10K
RV103	1-226-236-00	RES, ADJ, CARBON 10K
RV104	1-226-236-00	RES, ADJ, CARBON 10K
RV105	1-226-236-00	RES, ADJ, CARBON 10K
RV201	1-230-577-11	RES, VAR, SLIDE 20K
RV202	1-226-236-00	RES, ADJ, CARBON 10K
RV203	1-226-236-00	RES, ADJ, CARBON 10K
RV204	1-226-236-00	RES, ADJ, CARBON 10K
RV205	1-226-236-00	RES, ADJ, CARBON 10K
RV851	1-226-236-00	RES, ADJ, CARBON 10K
RV852	1-226-236-00	RES, ADJ, CARBON 10K
RV871	1-226-236-00	RES, ADJ, CARBON 10K
RV872	1-226-236-00	RES, ADJ, CARBON 10K
RY501	1-515-323-00	RELAY
S001 ⚠	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)
S002	1-554-208-00	SWITCH, SLIDE (TIMER)
S003	1-554-208-00	SWITCH, SLIDE (DIRECTION MODE)
S006	1-554-303-00	(AEP,E)...SWITCH, KEY BOARD (HEADPHONES-A/B)
S007	1-552-539-00	SWITCH, KEY BOARD (DUBBING-NORM SPEED)
S008	1-552-539-00	SWITCH, KEY BOARD (DUBBING-HIGH SPEED)
S009	1-554-303-00	SWITCH, KEY BOARD (AMS BLANK SKIP)
S301	1-553-852-00	SWITCH, PUSH (2 KEY)(DOLBY NR-ON/OFF)
S302	1-553-852-00	SWITCH, PUSH (2 KEY)(DOLBY NR-B/C)
S801 ⚠	1-526-576-51	(E).....SELECTOR, POWER VOLTAGE
S851	1-553-856-00	SWITCH, KEY BOARD (A-REW)
S852	1-553-856-00	SWITCH, KEY BOARD (A-REV)
S853	1-553-856-00	SWITCH, KEY BOARD (A-STOP)
S854	1-553-856-00	SWITCH, KEY BOARD (A-FWD)
S855	1-553-856-00	SWITCH, KEY BOARD (A-FF)
S861	1-554-883-11	SWITCH, SLIDE (A-DIRECTION)
S865	1-553-856-00	SWITCH, KEY BOARD (A-TAPE SELECT/120V)
S867	1-554-410-00	SWITCH, LEAF (A-POWER)
S871	1-553-856-00	SWITCH, KEY BOARD (B-REW)
S872	1-553-856-00	SWITCH, KEY BOARD (B-REV)
S873	1-553-856-00	SWITCH, KEY BOARD (B-STOP)
S874	1-553-856-00	SWITCH, KEY BOARD (B-FWD)
S875	1-553-856-00	SWITCH, KEY BOARD (B-FF)
S876	1-553-856-00	SWITCH, KEY BOARD (B-PAUSE)
S877	1-553-856-00	SWITCH, KEY BOARD (B-REC)
S878	1-553-856-00	SWITCH, KEY BOARD (B-REC MUTE)

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

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

Parts used in this set differ depending on Serial No. shown below.

FORMER	US model AEP model	Up to Serial No. 802,000 Up to Serial No. 500,200
NEW	US model AEP model E model	Serial No. 802,001 and later Serial No. 500,201 and later Applicable for all sets

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S881	1-554-883-11	SWITCH, SLIDE (B-DIRECTION)
S882	1-553-856-00	SWITCH, KEY BOARD (B-CASSETTE DETECT)
S883	1-553-856-00	SWITCH, KEY BOARD (B-ACCIDENTAL ERASURE PREVENTION)
S884	1-553-856-00	SWITCH, KEY BOARD (B-ACCIDENTAL ERASURE PREVENTION)
S885	1-553-856-00	SWITCH, KEY BOARD (B-TAPE SELECT/120V)
S886	1-553-856-00	SWITCH, KEY BOARD (B-TAPE SELECT/METAL)
S887	1-554-410-00	SWITCH, LEAF (B-POWER)
T501	1-433-283-11	TRANSFORMER, BIAS OSCILLATION
T801	⚠.1-448-069-11	(US)....TRANSFORMER, POWER
T801	⚠.1-448-078-11	(E).....TRANSFORMER, POWER
T801	⚠.1-448-079-11	(AEP)...TRANSFORMER, POWER
X801	1-527-589-00	OSCILLATOR, CERAMIC
X802	1-527-532-00	OSCILLATOR, CERAMIC

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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