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HST-39

AEP Model
E Model

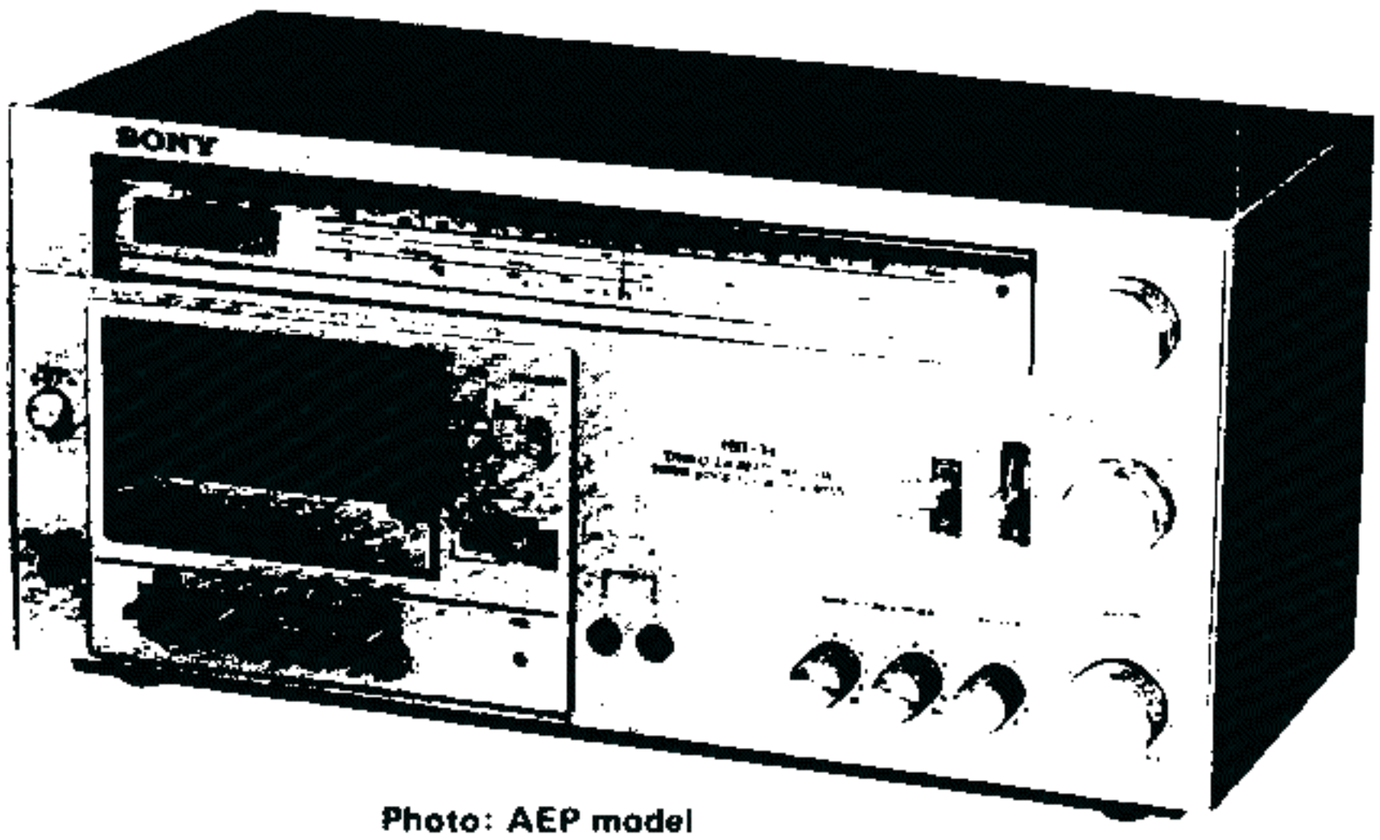


Photo: AEP model

STEREO CASSETTE-RECEIVER

SPECIFICATIONS

GENERAL

System: Superheterodyne FM/AM tuner, Complementary symmetry power amplifier circuit (SEPP OTL, OCL)

Power Requirements: 220 V ac, 50 Hz (AEP model)
110–120 or 220–240 V ac adjustable, 50/60 Hz (E model)

Power Consumption: 85 W

Dimensions: Approx. 456 (w) x 225 (h) x 247 (d) mm
18 (w) x 8 7/8 (h) x 9 3/4 (d) inches
Inciuding projecting parts and controls

Weight: Approx. 6.35 kg, 14 lb (net)
7.7 kg, 17 lb (in shipping carton)

FM SECTION

Tuning Range: 87.5–108 MHz

Antenna: 300 Ω balanced
75 Ω unbalanced

Usable Sensitivity: 12 dBf, 2.2 μV, S/N = 30 dB

Harmonic Distortion: 0.5% (MONO), 1.0% (STEREO) at 400 Hz

Selectivity: 50 dB

S/N Ratio: 65 dB

Frequency Response: 70 Hz – 12.5 kHz ± 3 dB

Saparation: Better than 35 dB

0 dB = 0.775 V

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ! ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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

SONY®
SERVICE MANUAL

AM SECTION

AEP model

Band	SW	MW	LW
Tuning Range	5.8–15.8 MHz (49 · 19 m)	530–1, 605 kHz	150–350 kHz
Antenna	External antenna terminal	Built-in ferrite-rod antenna and external antenna terminal	
Sensitivity	30 μV, external antenna (S/N = 20 dB)	50 dB/m, built-in antenna 100 μV, external antenna (S/N = 20 dB)	52 dB/m, built-in antenna 150 μV, external antenna
S/N Ratio	50 dB		
Harmonic Distortion	0.8 % at 400 Hz		
Intermediate Frequency	468 kHz		

E model

Band	SW1	SW2	MW
Tuning Range	2.3–6.2 MHz (120–49 m)	7–17.9 MHz (41–16 m)	530–1,605 kHz
Antenna	External antenna terminal		Built-in ferrite-rod antenna and external antenna terminal
Sensitivity	30 μV, external antenna (S/N = 20 dB)		50 dB/m, built-in antenna 100 μV, external antenna
S/N Ratio	50 dB		
Harmonic Distortion	0.8 % at 400 Hz		
Intermediate Frequency	468 kHz		

AMPLIFIER SECTION

Continuous RMS Power Output: 12 + 12 W (8 Ω) at 90 Hz –15 kHz (less than 5% THD, both channels driven simultaneously)

Music Power: 35 W (8 Ω)

Inputs:

	sensitivity	impedance	S/N
PHONO (phono jacks)	3.5 mV	47 kΩ	65 dB
AUX (phono jacks)	500 mV	47 kΩ	70 dB
MIC (phono jacks)	3.5 mV	600 Ω	60 dB

Outputs:

REC OUT (phono jacks)	output voltage 250 mV	impedance 10 kΩ
HEADPHONES	Accepts headphones of 8 Ω or more	
SPEAKERS	Accepts speakers of 8 Ω	

Frequency Response: PHONO: RIAA curve ±2 dB
AUX: 30 Hz – 30 kHz ±2 dB
MIC: 100 Hz – 10 kHz ±2 dB

Tone Controls: BASS: ±10 dB at 100 Hz
TREBLE: ±10 dB at 10 kHz

Loudness Control (att. 30 dB): +6 dB at 100 Hz
+3 dB at 10 kHz

CASSETTE RECORDER SECTION

Recording System: 4-track 2-channel stereo

Frequency Response: 50 Hz –12 kHz (with the TAPE SELECT switch set to CrO_2)

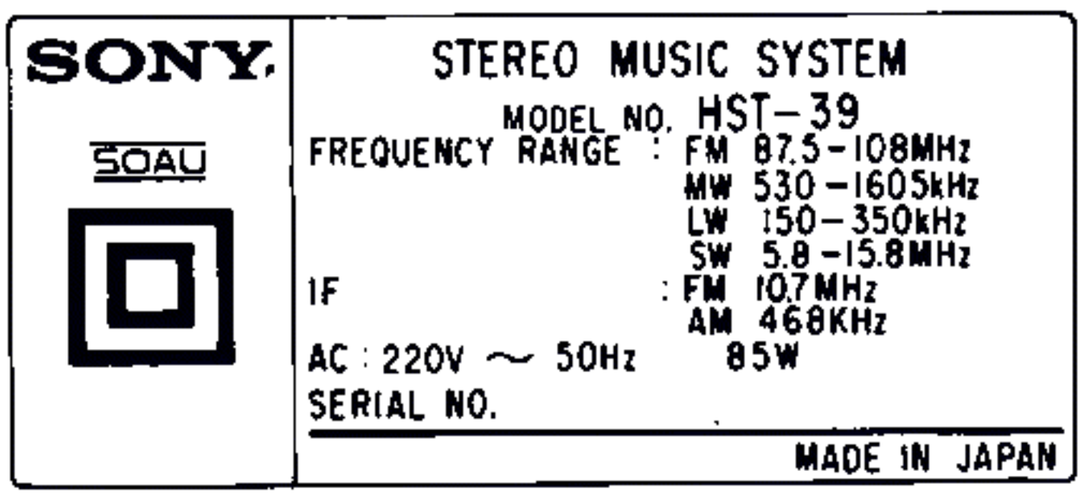
S/N Ratio: 50 dB

Wow and Flutter: 0.18 % WRMS

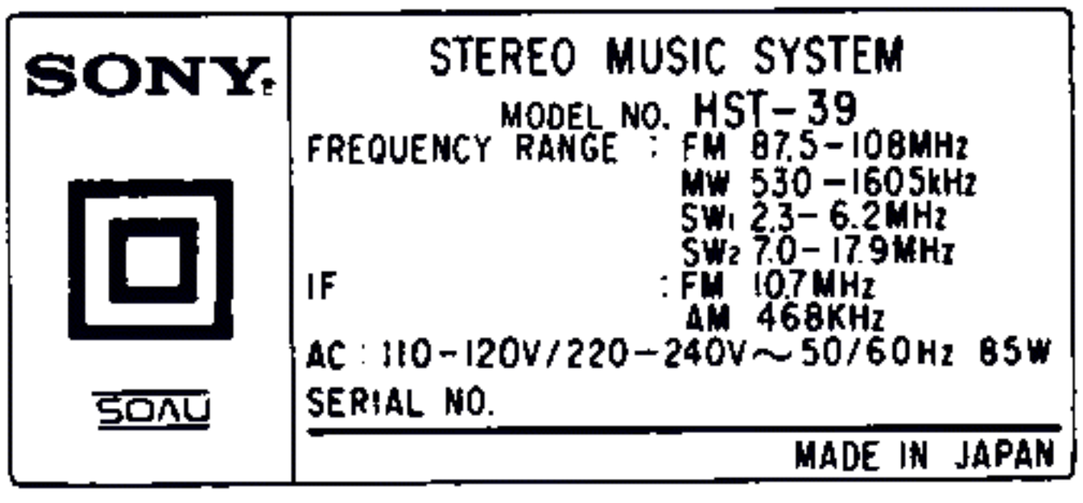
MODEL IDENTIFICATION

– Rear Board –

AEP model



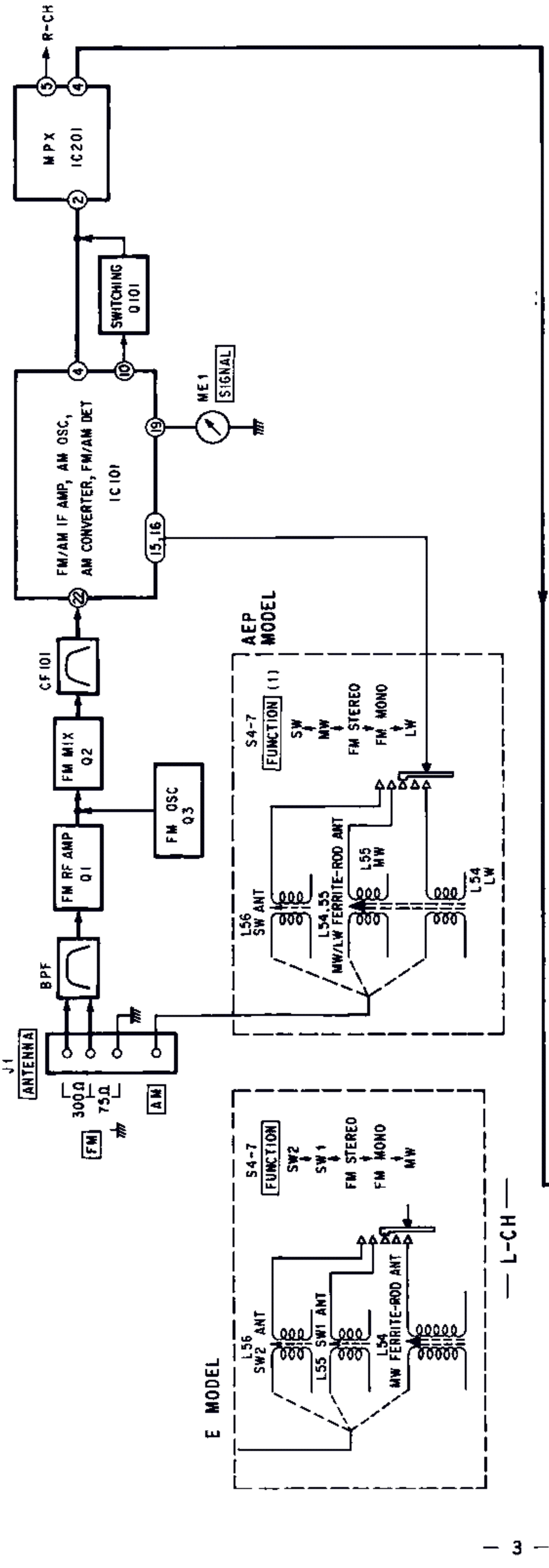
E model



SECTION 1

OUTLINE

1-1. BLOCK DIAGRAM



SECTION 2

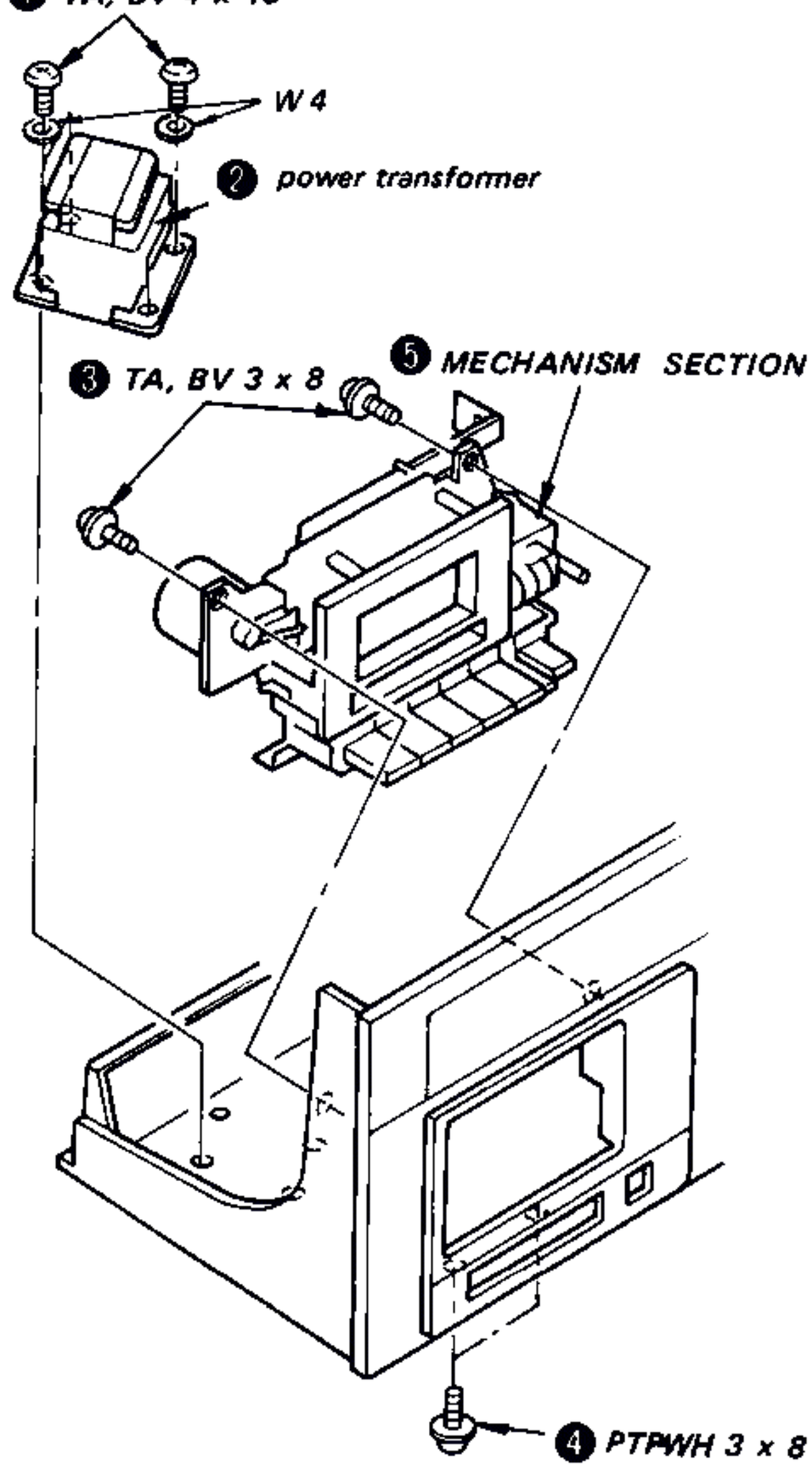
DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

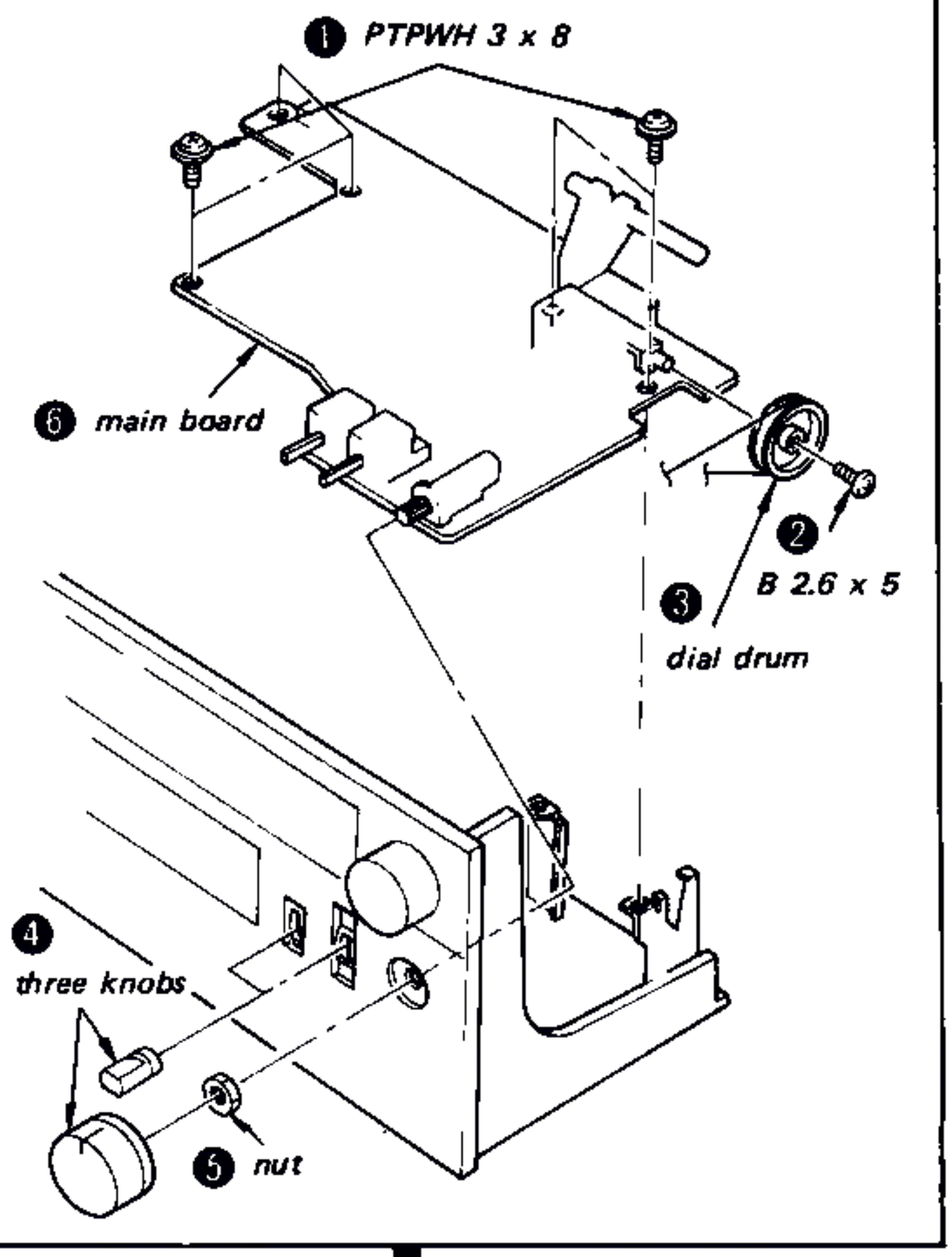
Remove the case.
BTP 4 x 25 (four screws)

Remove the rear board.
PTPWH 3 x 8 (one screw)

MECHANISM SECTION REMOVAL



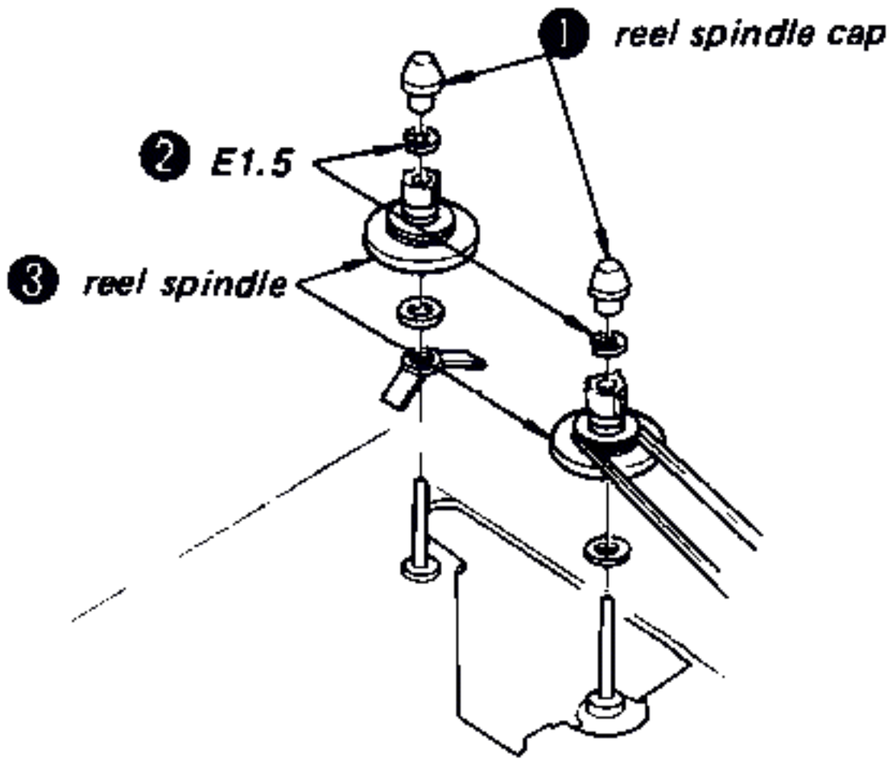
MAIN BOARD REMOVAL



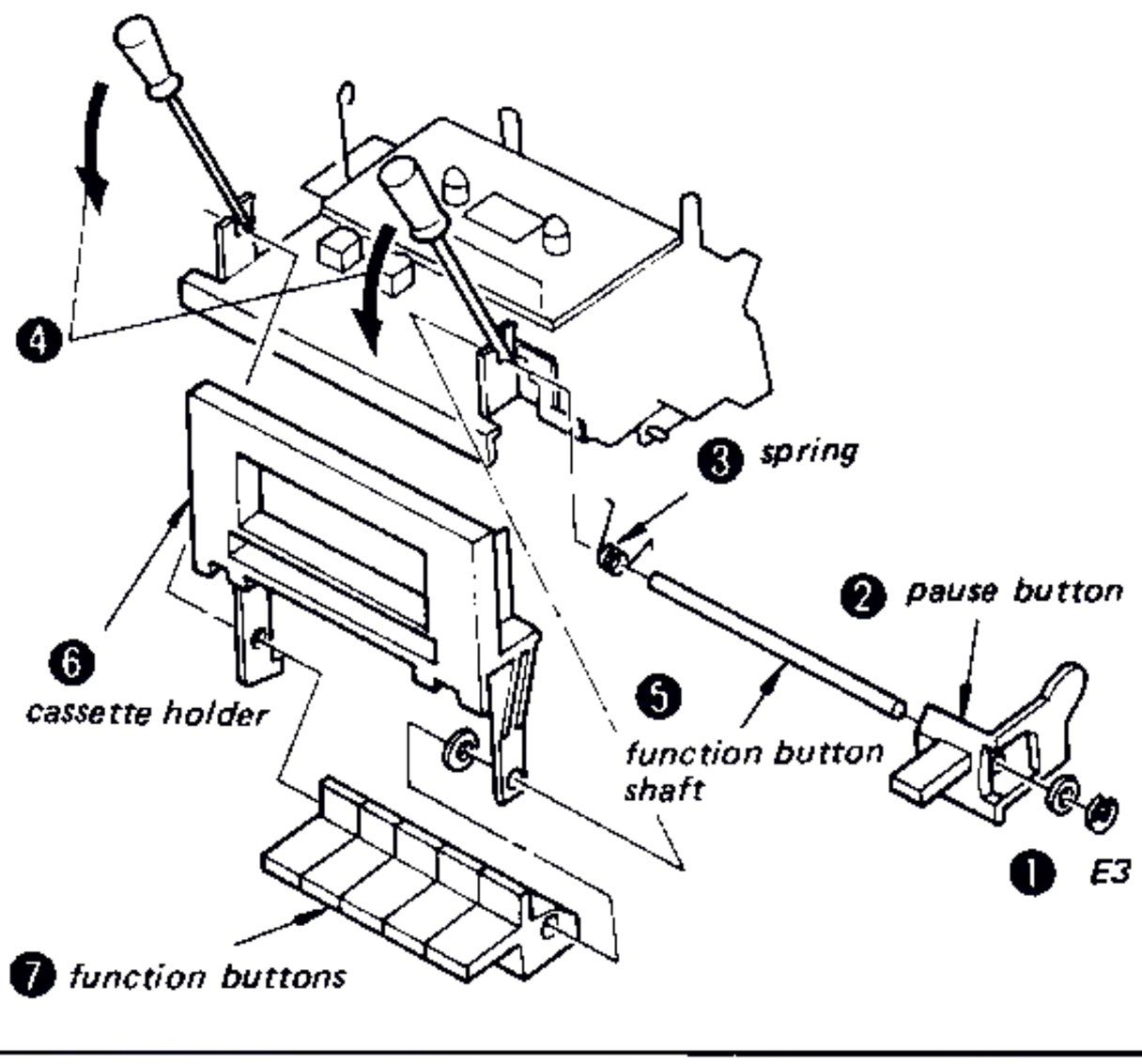
Remove the power amp board.

Remove the cassette deck cover.
TPP 2.6 x 10 (two screws)

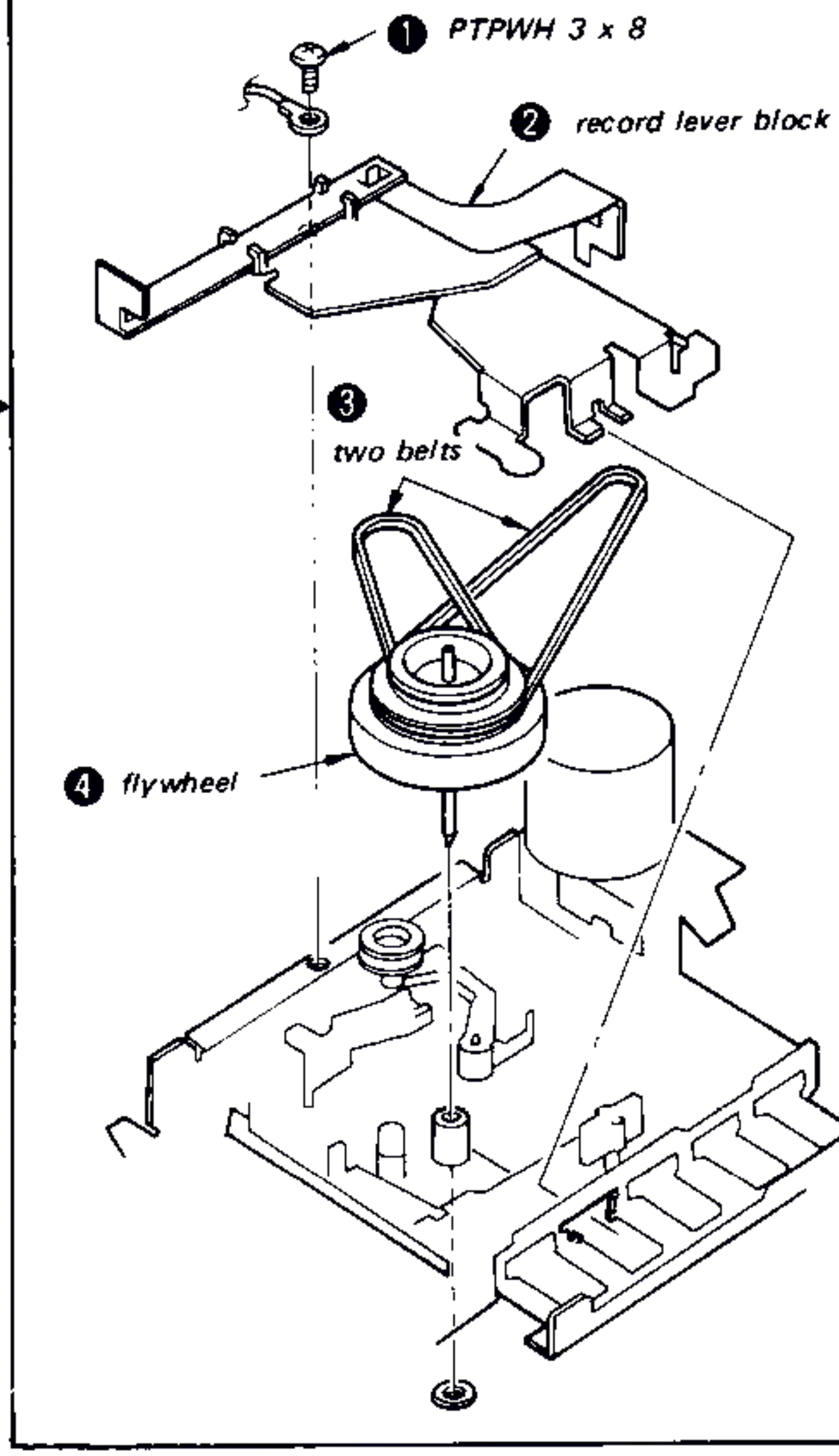
REEL SPINDLE REMOVAL



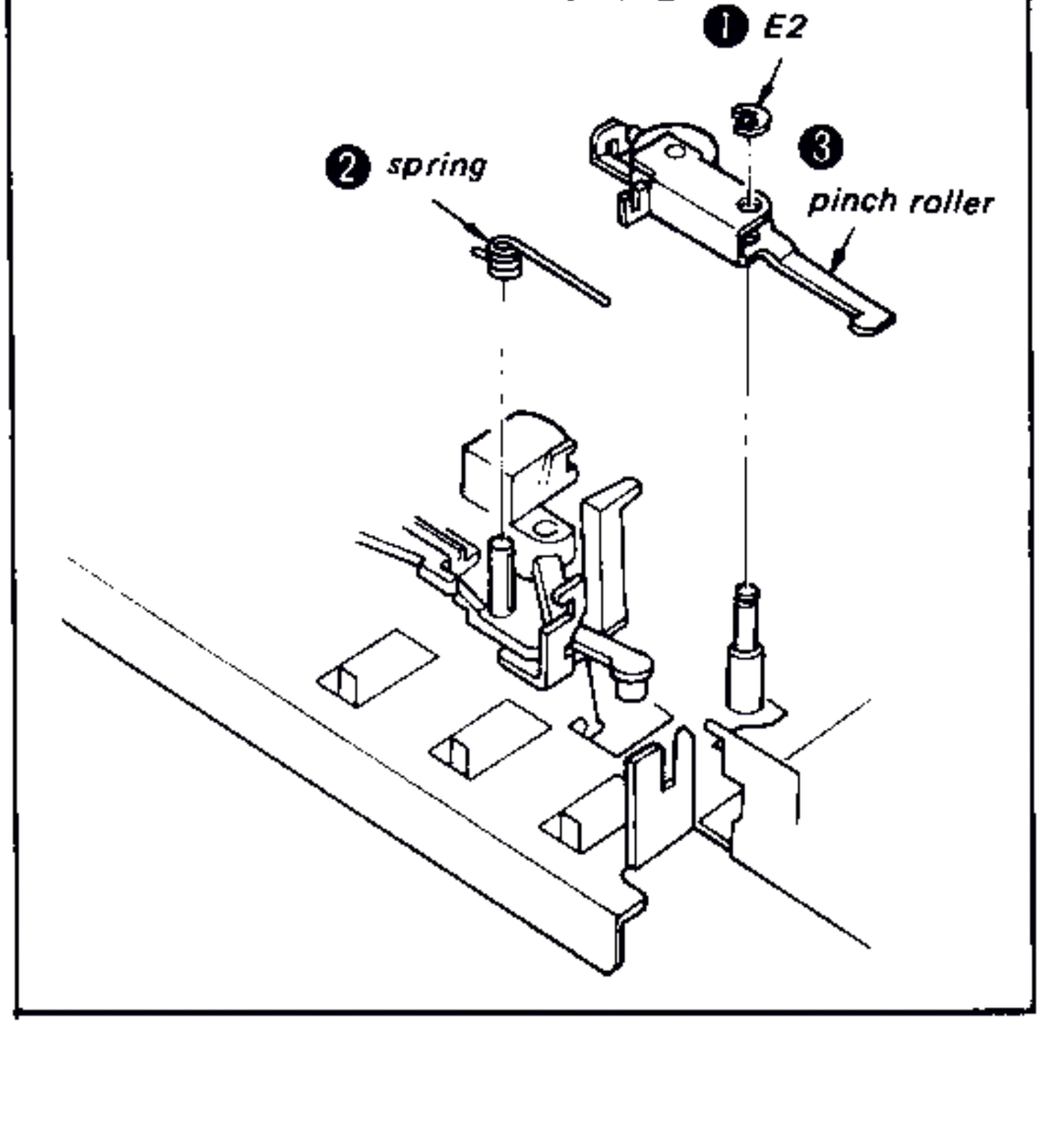
CASSETTE HOLDER REMOVAL



FLYWHEEL REMOVAL

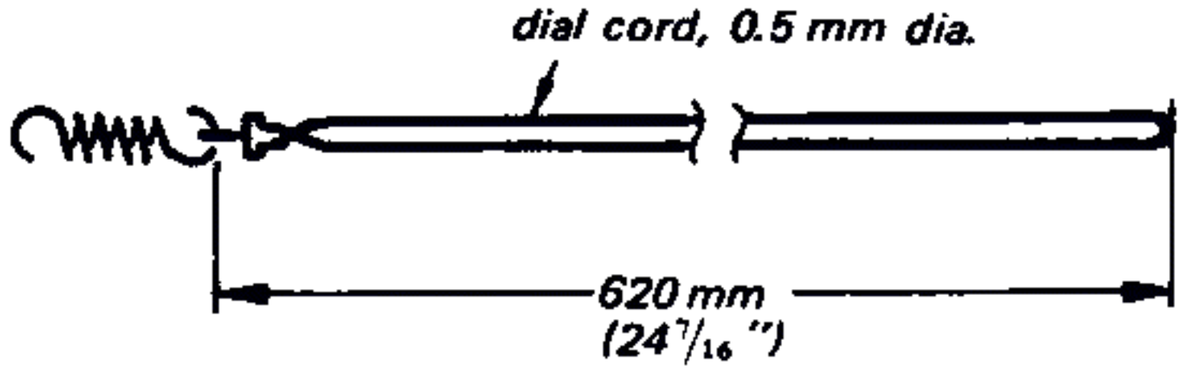


PINCH ROLLER REMOVAL



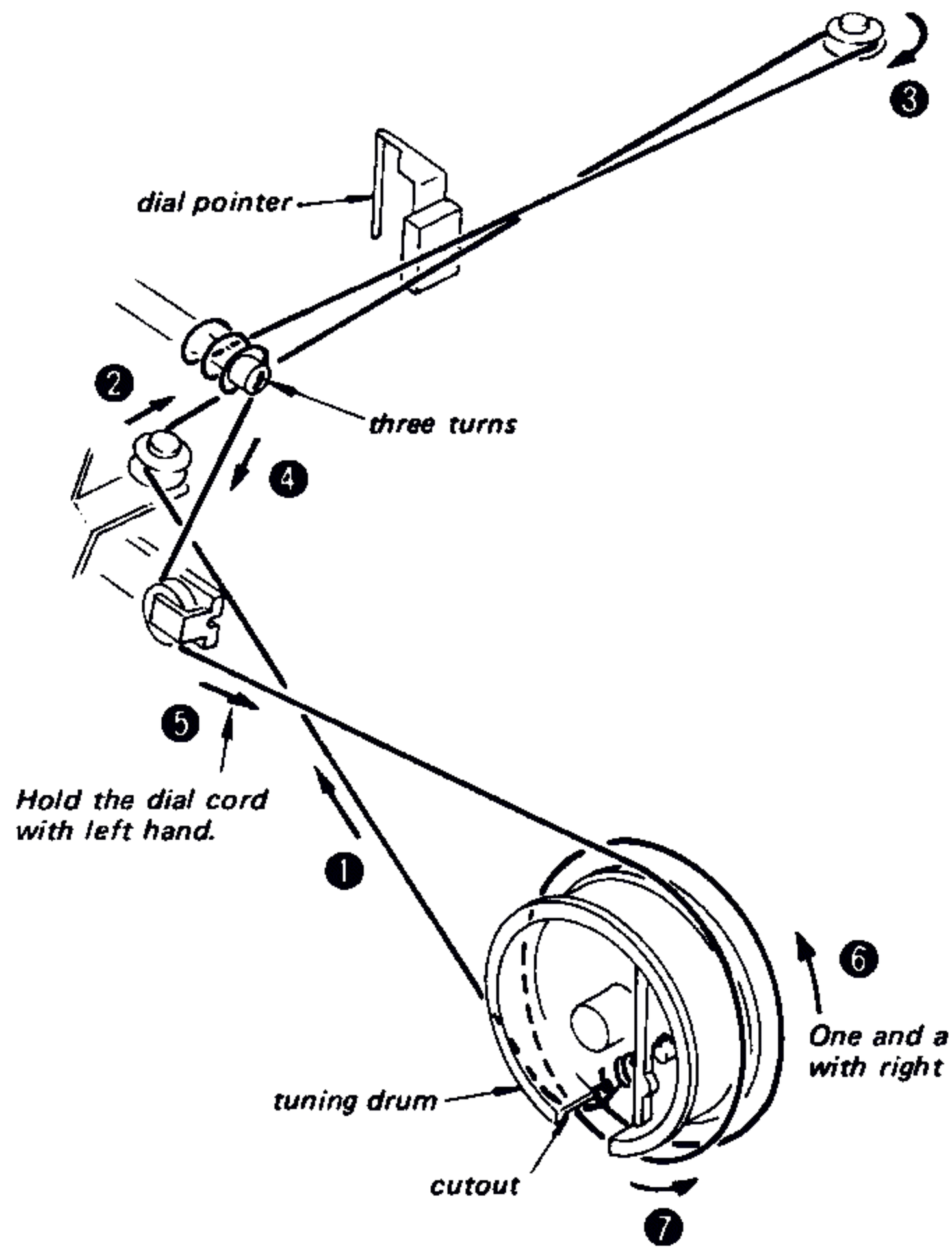
DIAL CORD STRINGING

1. Preparation



2. Stringing

- *Turn the tuning-capacitor shaft fully clockwise and set the tuning drum so that the cutout is positioned as shown below.*



3. Dial Pointer Setting

Receive a broadcasting station and set the dial pointer to the frequency of the station on the dial scale.

SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

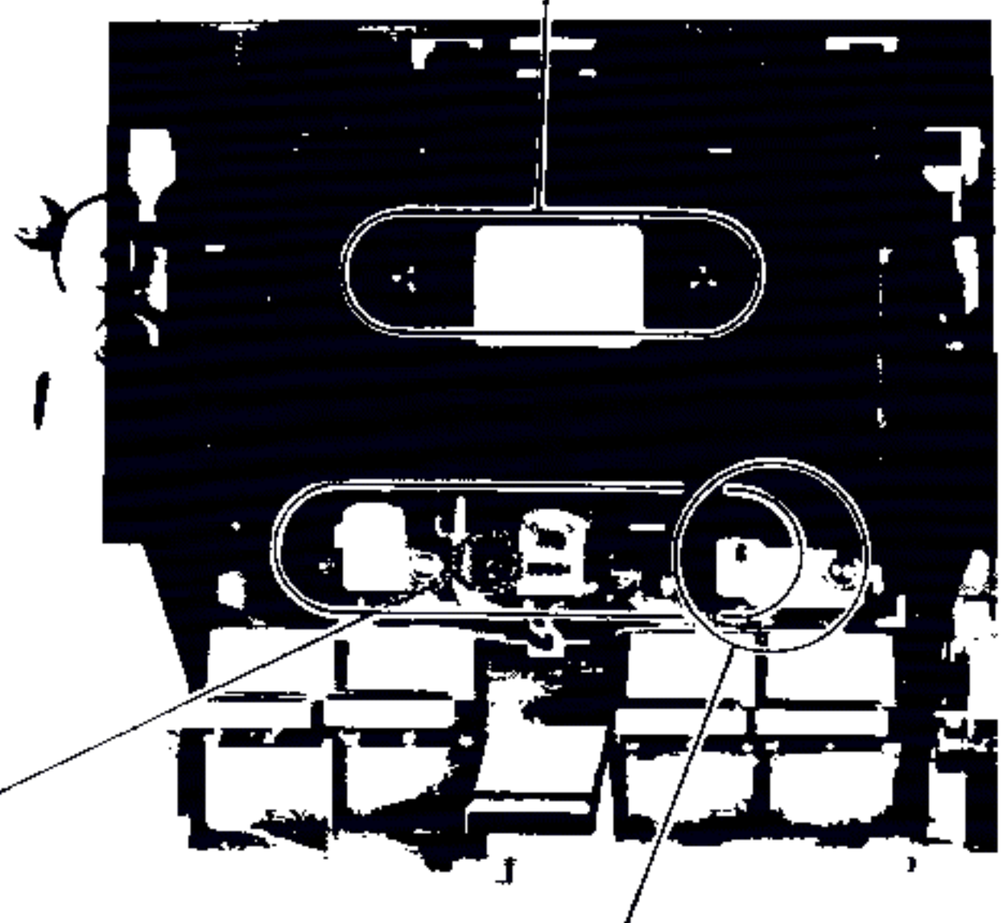
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Adjustment

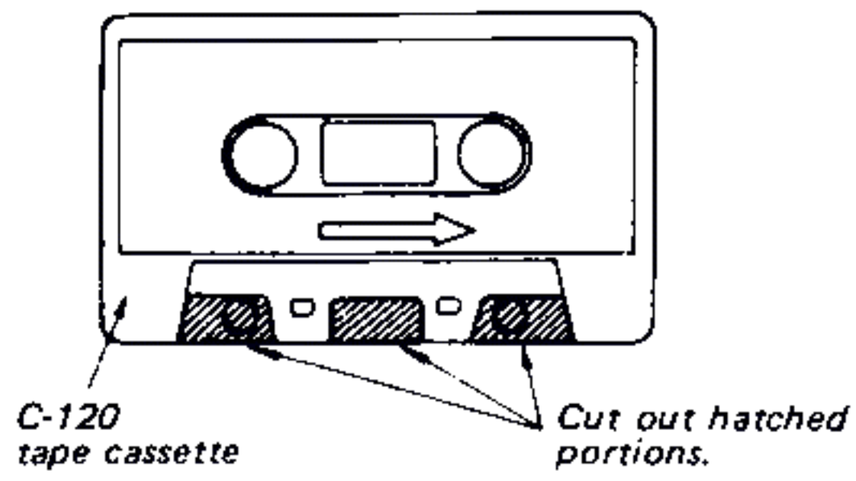
	Torque meter	Meter reading
Forward	CQ-101A, 102A, 103A	25 – 60 g·cm (0.35 – 0.84 oz·inch)
Fast Forward Rewind	CQ-201A	60 – 110 g·cm (0.84 – 1.53 oz·inch)



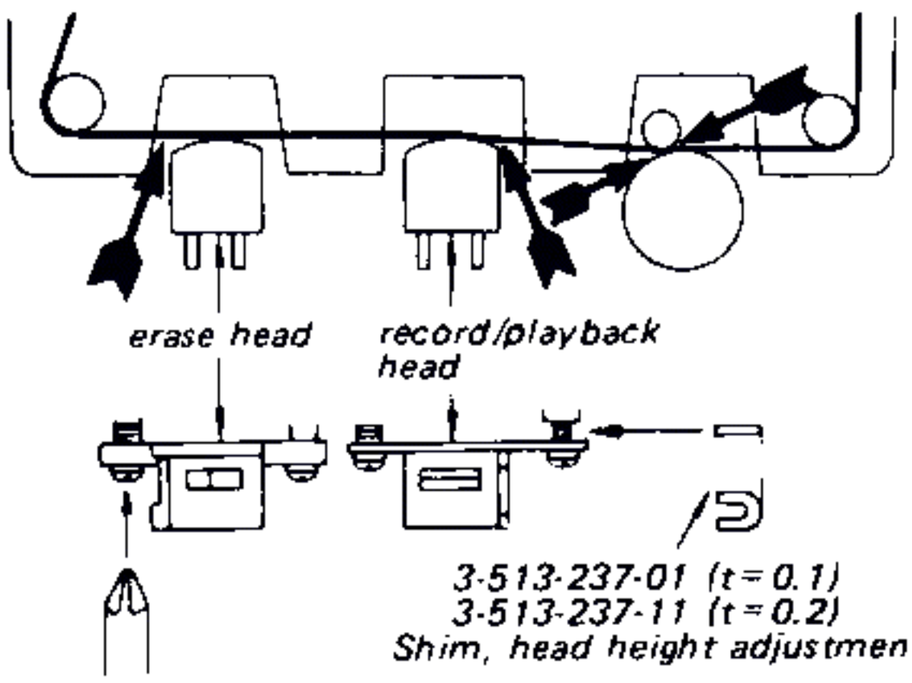
Head Height Adjustment

– Playback Mode –

1. Prepare an adjustment cassette as shown below.



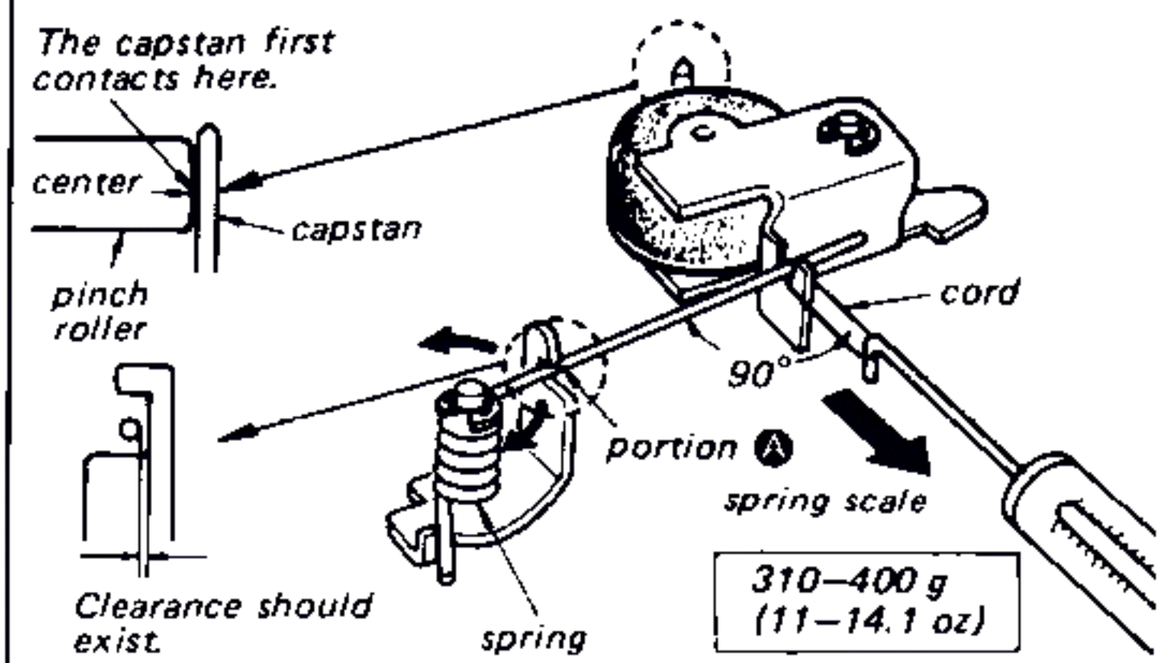
2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



Pinch Roller Pressure Adjustment

– Playback Mode –

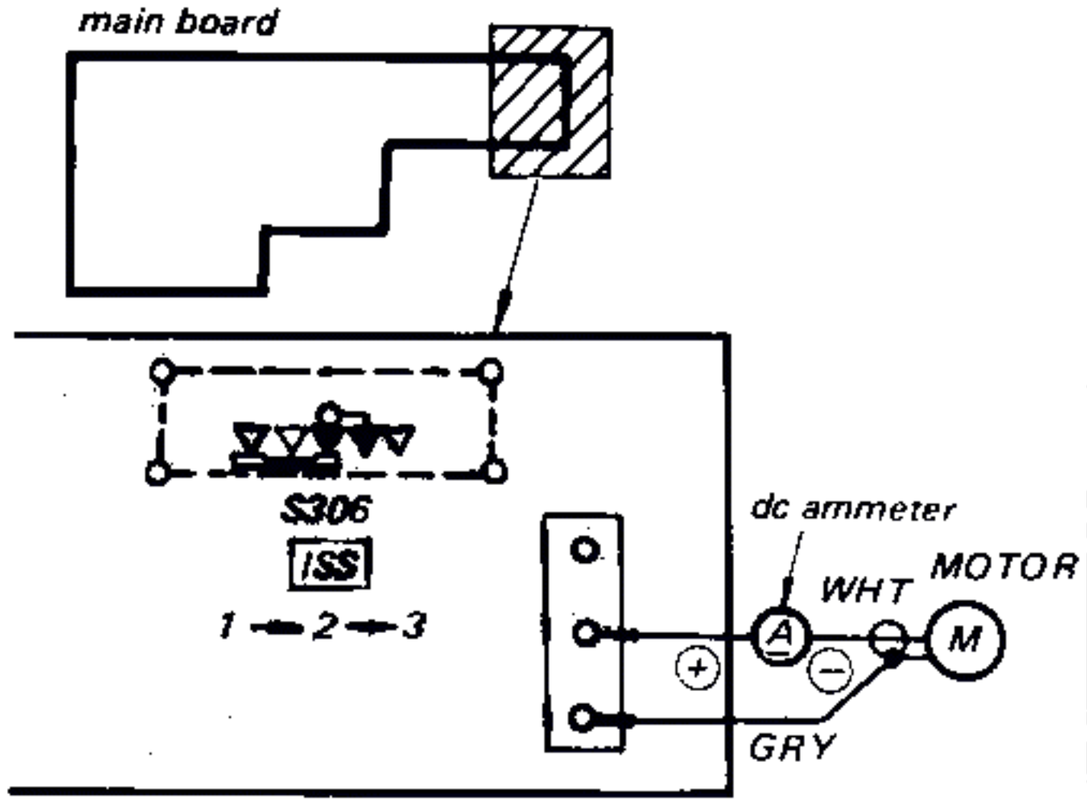
1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
3. If necessary, bend the portion Ⓐ.



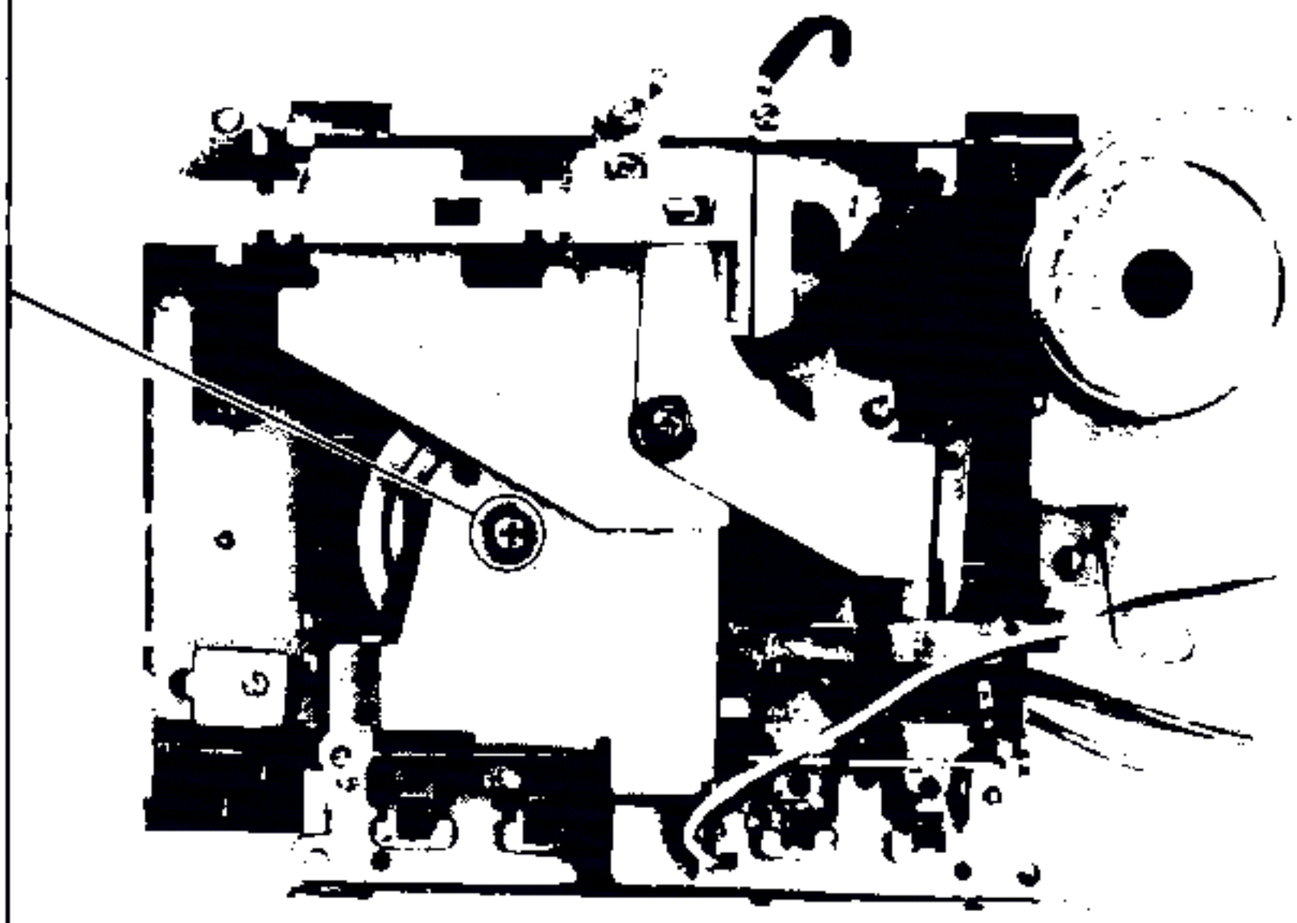
Note: If necessary, replace the spring.

Flywheel Thrust Play Adjustment

— Playback Mode —



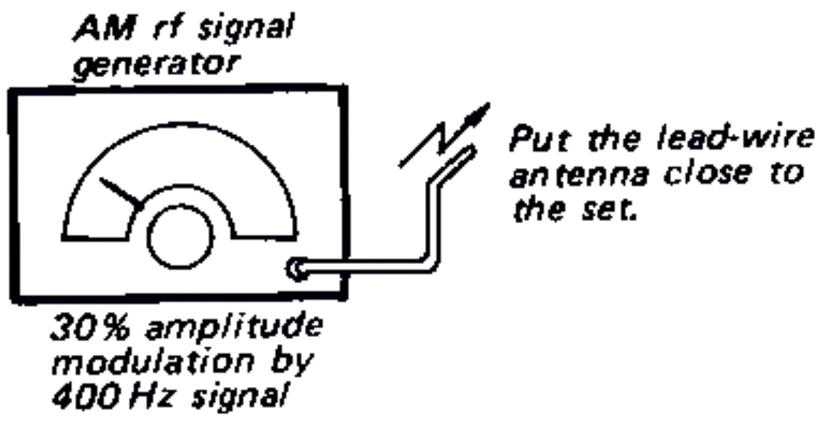
1. Disconnect a lead wire (white) of the motor and connect the dc ammeter as shown above.
2. Turn the thrust screw counterclockwise until the screw tip is detached from the flywheel shaft.
3. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
4. Then, turn the thrust screw counterclockwise about ¼ turn from the position obtained in step 2.

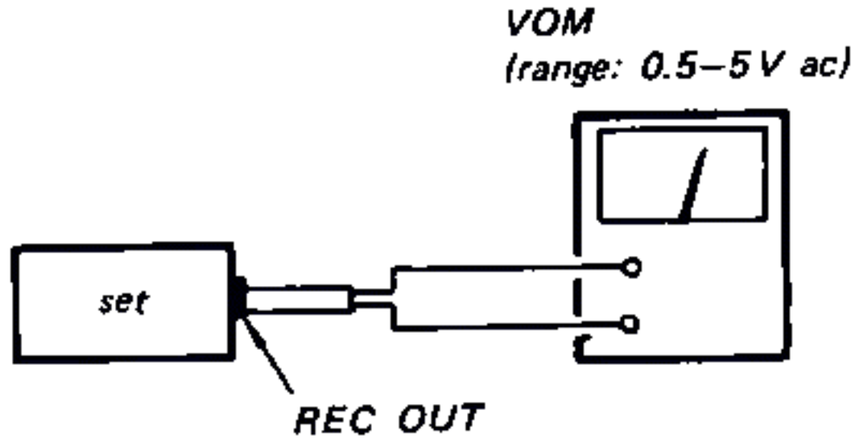


3-2. ELECTRICAL ADJUSTMENTS

MW SECTION (AEP, E model)

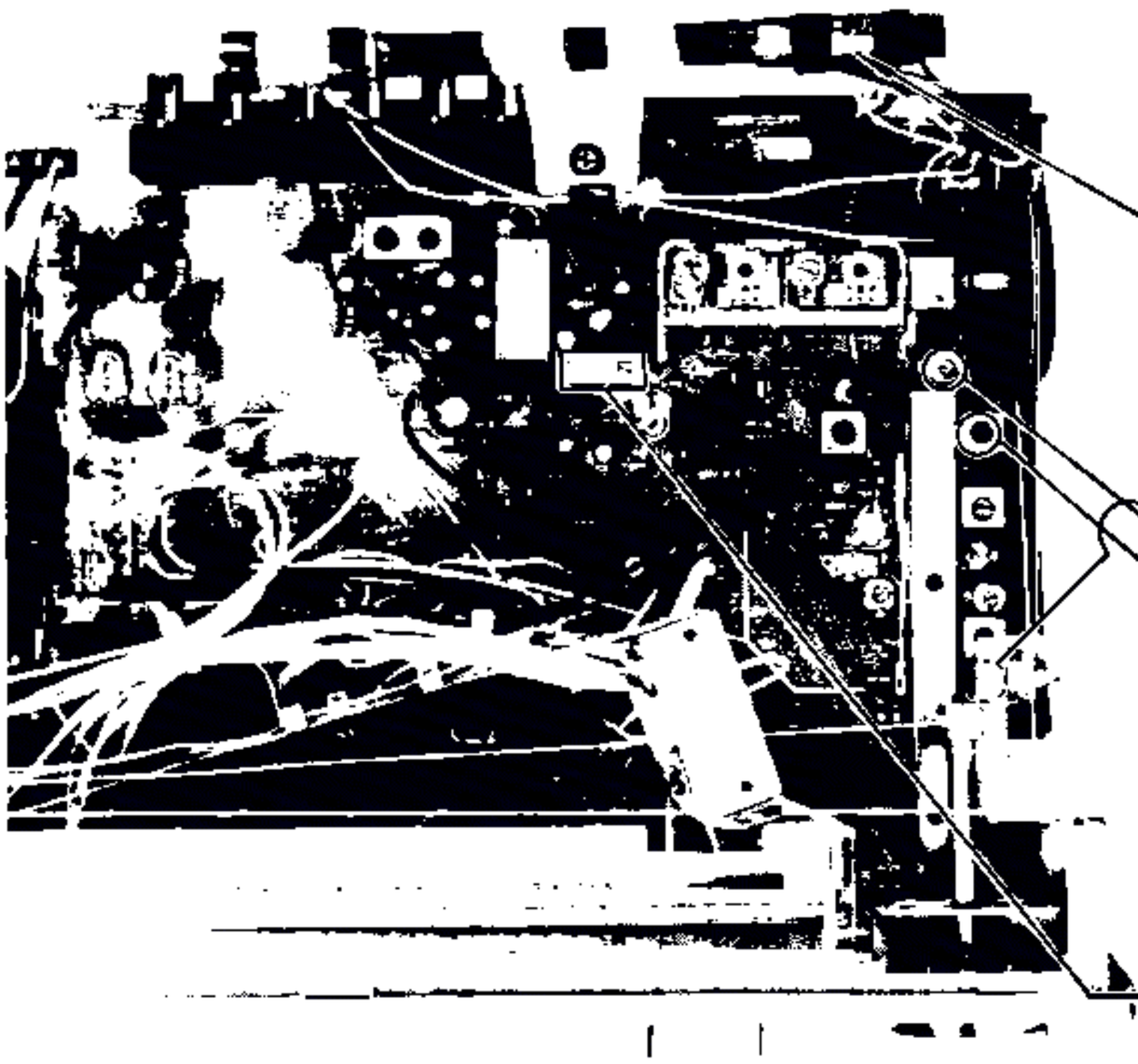
Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: MW





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AEP model

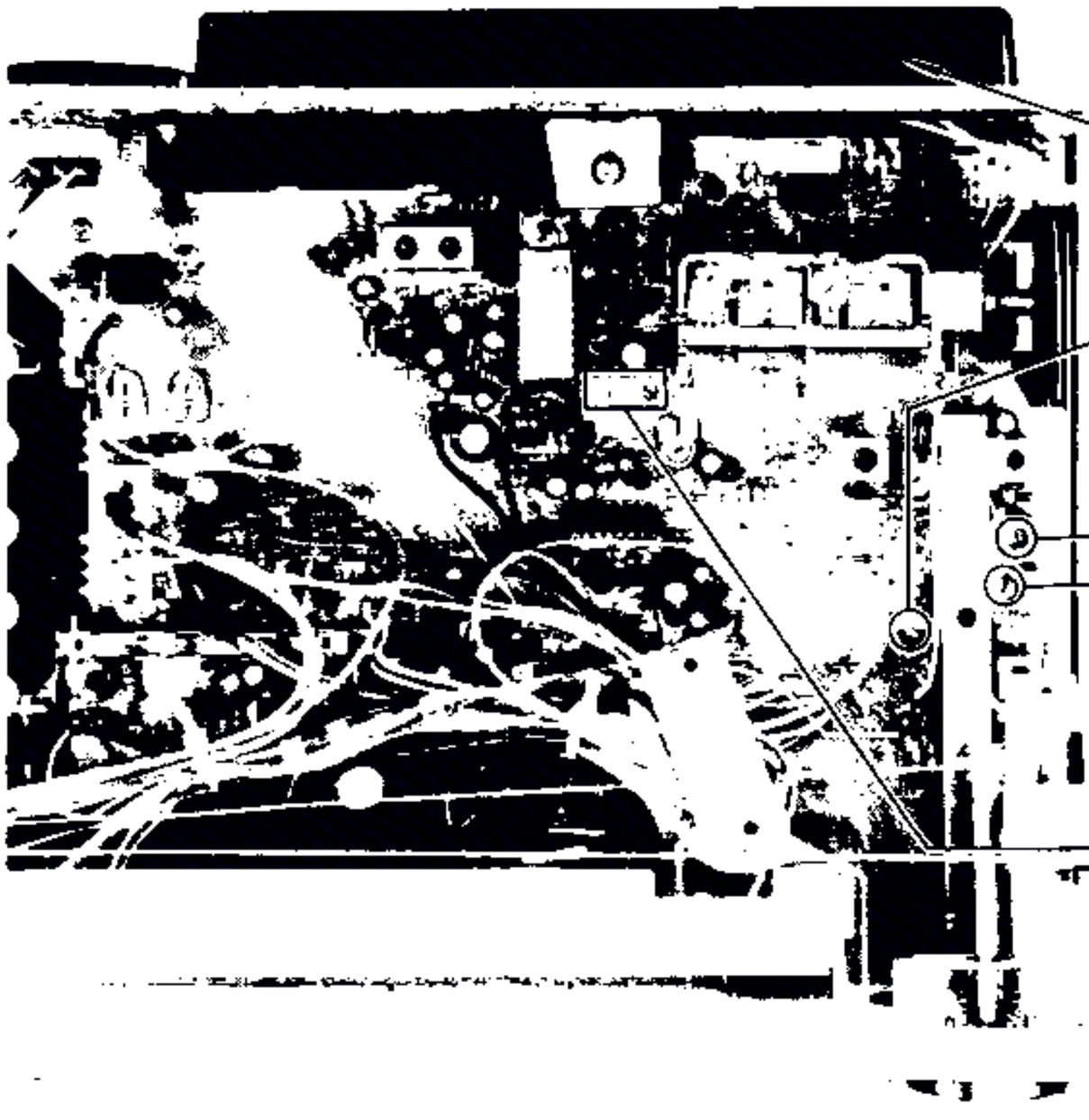


MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM .	
L55	620 kHz
CT55	1400 kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM .	
CT52	1680 kHz
L52	520 kHz

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM .	
CFU101	468 kHz

E model



MW TRACKING ADJUSTMENT	
Adjust for maximum reading on VOM .	
L54	620 kHz
CT54	1400 kHz

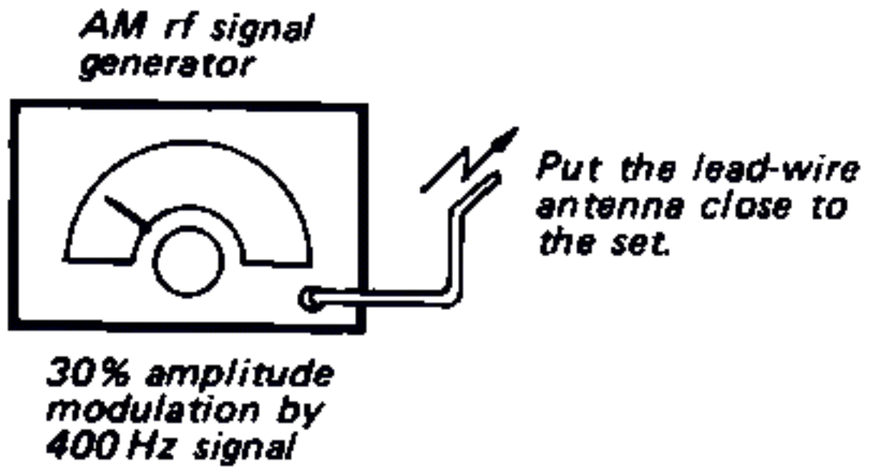
MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for maximum reading on VOM .	
L51	520 kHz
CT51	1680 kHz

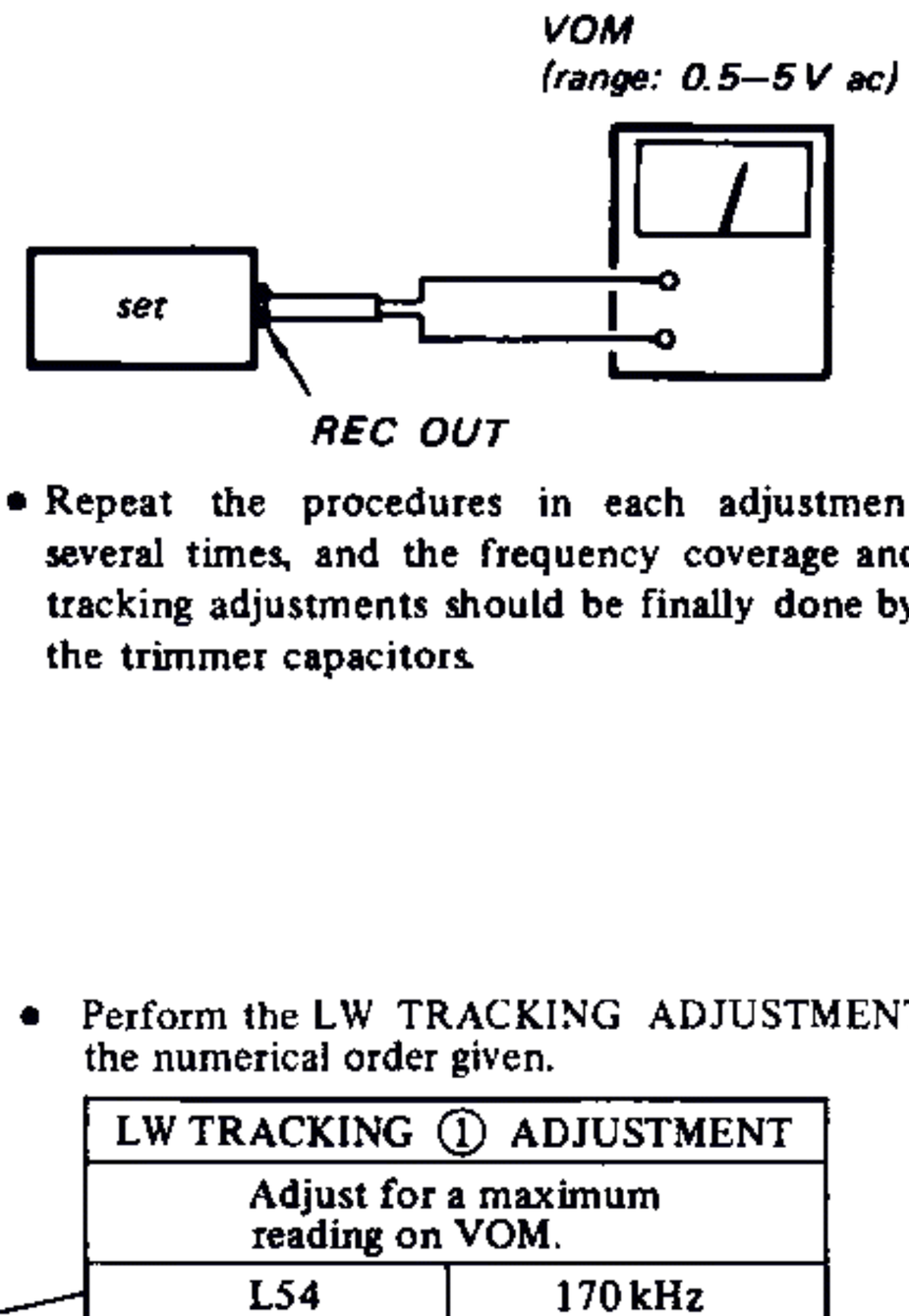
AM IF ALIGNMENT	
Adjust for maximum reading on VOM .	
CFU101	468 kHz

SW, LW SECTION (AEP model)

Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: SW or LW

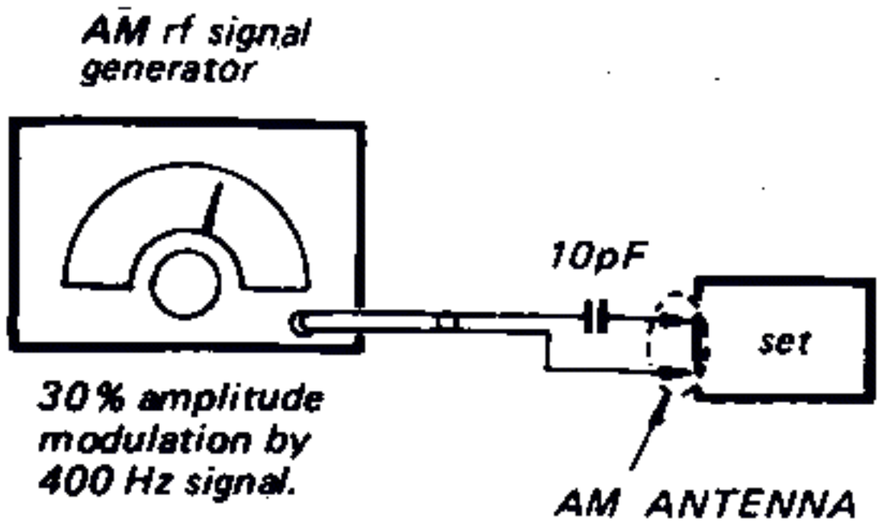
• LW FREQUENCY COVERAGE ADJUSTMENT
LW TRACKING ① ADJUSTMENT
AM IF ALIGNMENT





• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

• SW FREQUENCY COVERAGE ADJUSTMENT
SW TRACKING ADJUSTMENT
LW TRACKING ② ADJUSTMENT



• Perform the LW TRACKING ADJUSTMENT in the numerical order given.

LW TRACKING ① ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L54	170 kHz
CT54	310 kHz

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L51	145 kHz
CT51	365 kHz

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM.	
CFU101	468 kHz

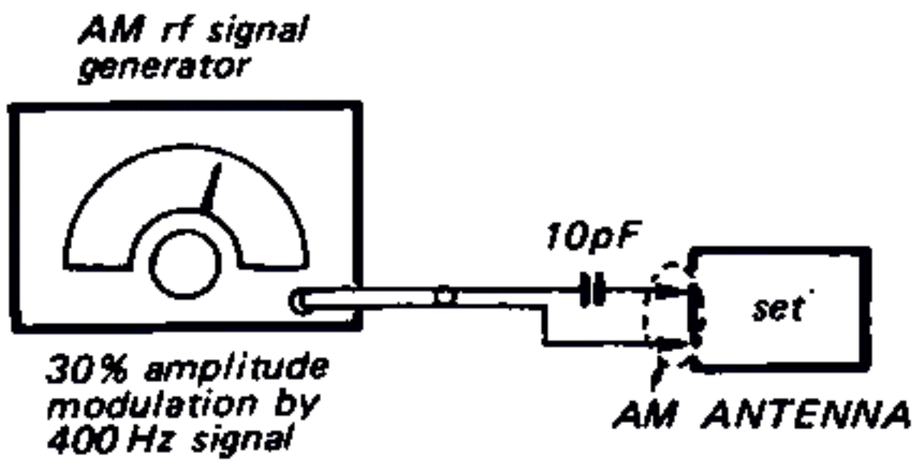
LW TRACKING ② ADJUSTMENT	
LW ANTENNA SELECTOR switch (S5) : ON. Adjust for a maximum reading on VOM.	
L57	240 kHz

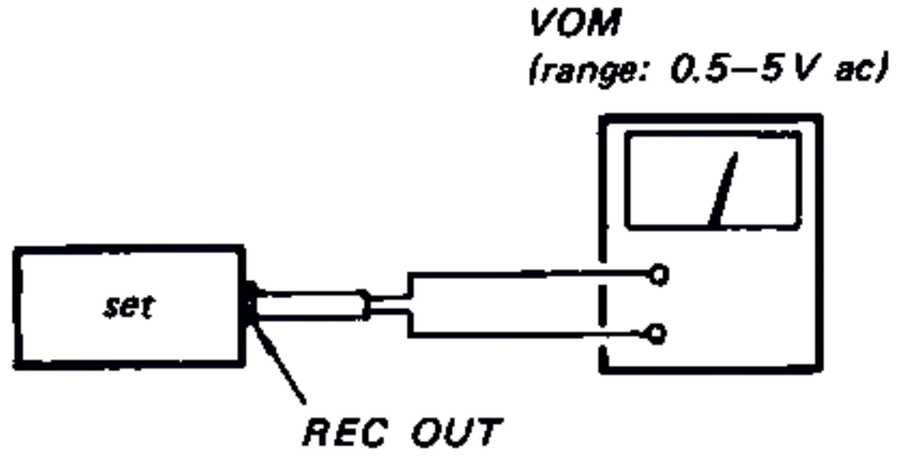
SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT53	16.1 MHz
L53	5.5 MHz

SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT56	16.1 MHz
L56	5.5 MHz

SW1, 2 SECTION (E model)

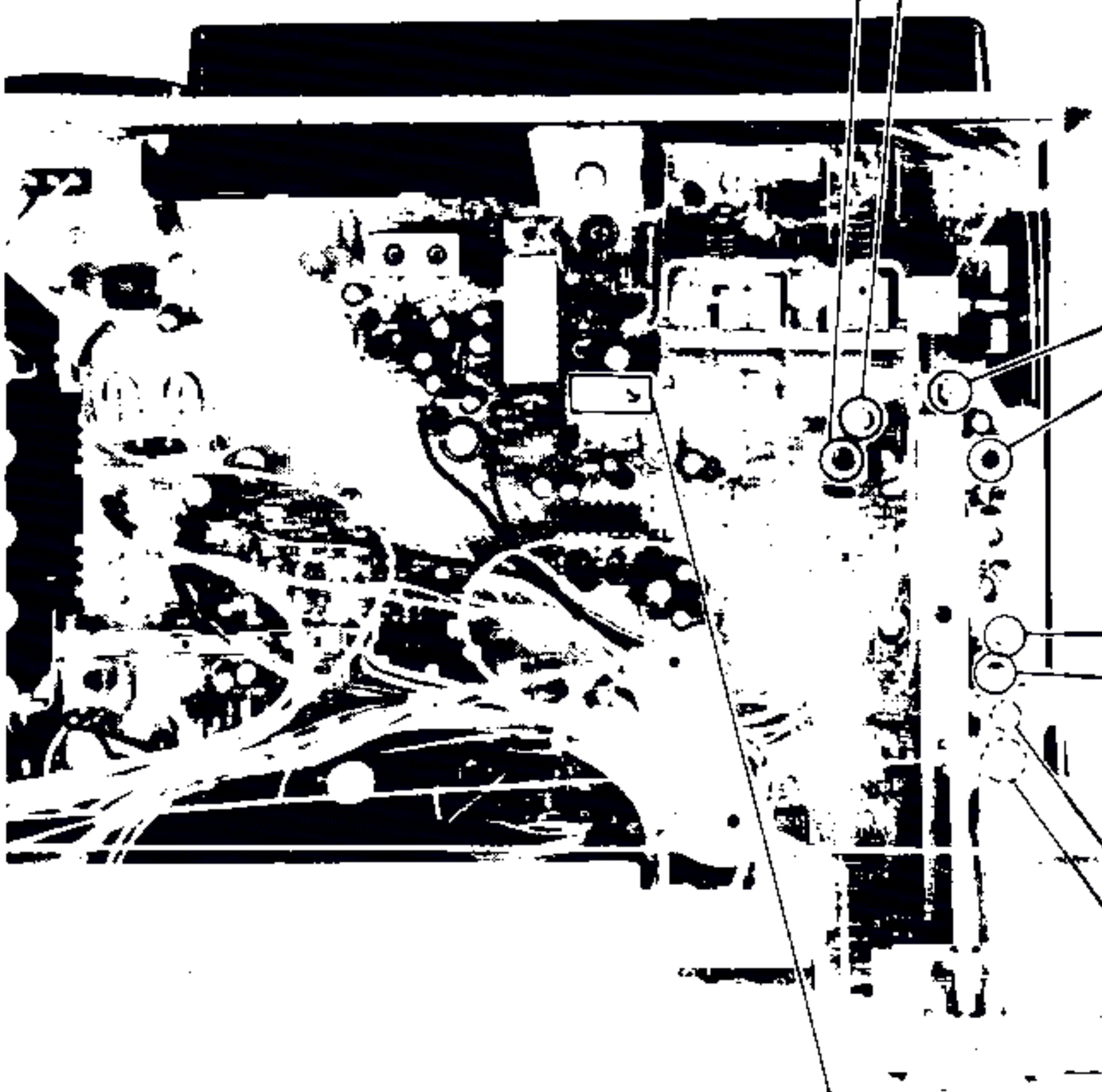
Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: SW1 or SW2





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the ~~trimmer~~ capacitors.

SW 2 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
18.4 MHz	CT53
6.8 MHz	L53



SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for maximum reading on VOM.	
CT52	6.5 MHz
L52	2.1 MHz

SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT56	18.4 MHz
L56	6.8 MHz

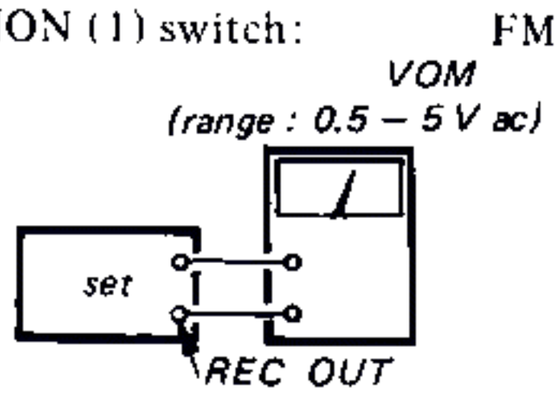
SW1 TRACKING ADJUSTMENT	
Adjust for maximum reading on VOM.	
CT55	6.5 MHz
L55	2.1 MHz

468 kHz	CFU101
Adjust for a maximum reading on VOM.	
AM IF ALIGNMENT	

FM SECTION (AEP, E model)

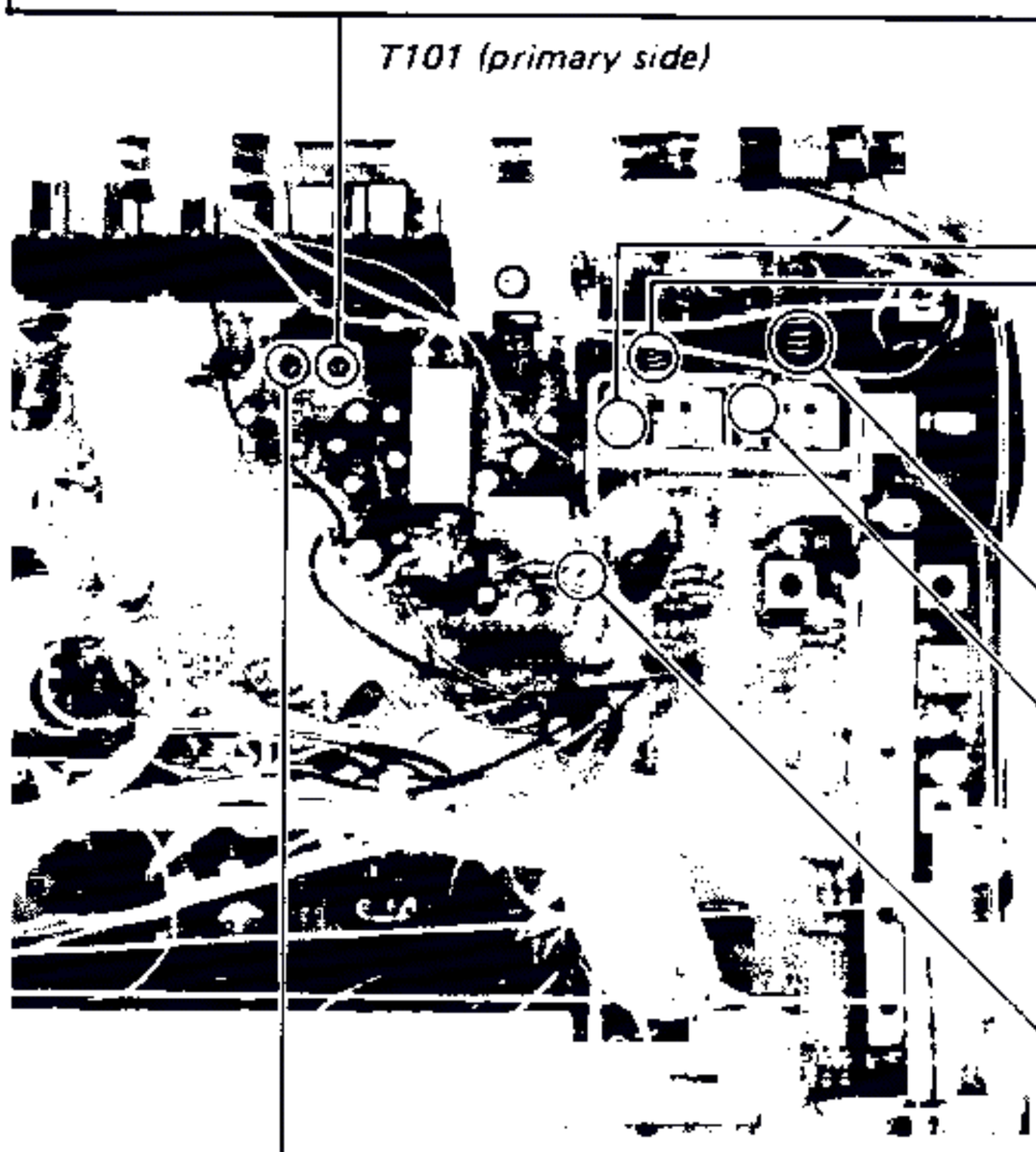
FM DISCRIMINATOR ALIGNMENT 1

Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: FM MONO



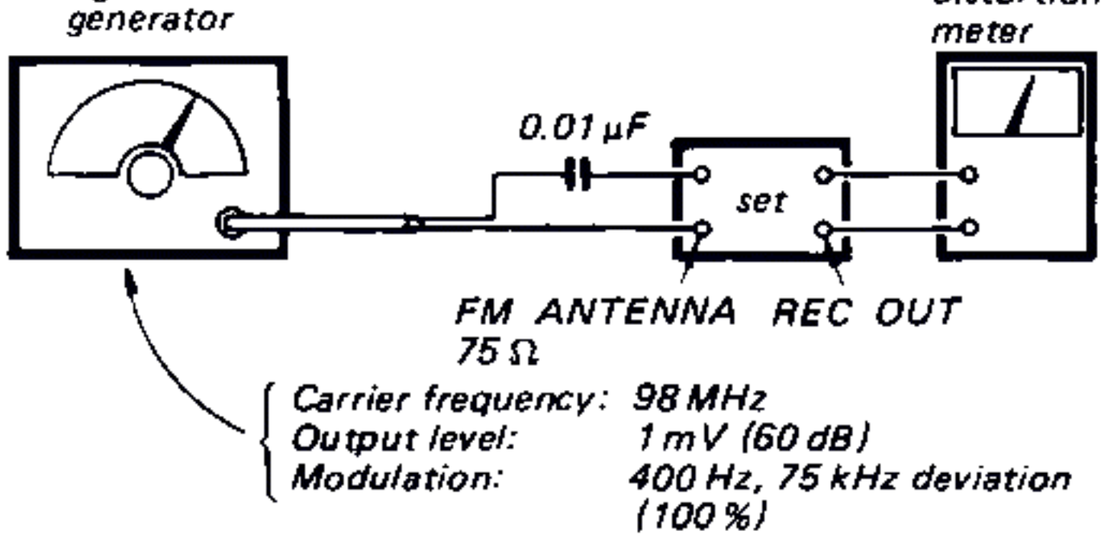
Procedure:

1. Detune the set.
2. Adjust T101 (primary side) for a maximum on the VOM.



FM DISCRIMINATOR ALIGNMENT 2

Setting: FUNCTION (3) switch: TUNER
FUNCTION (2) switch: FM MONO



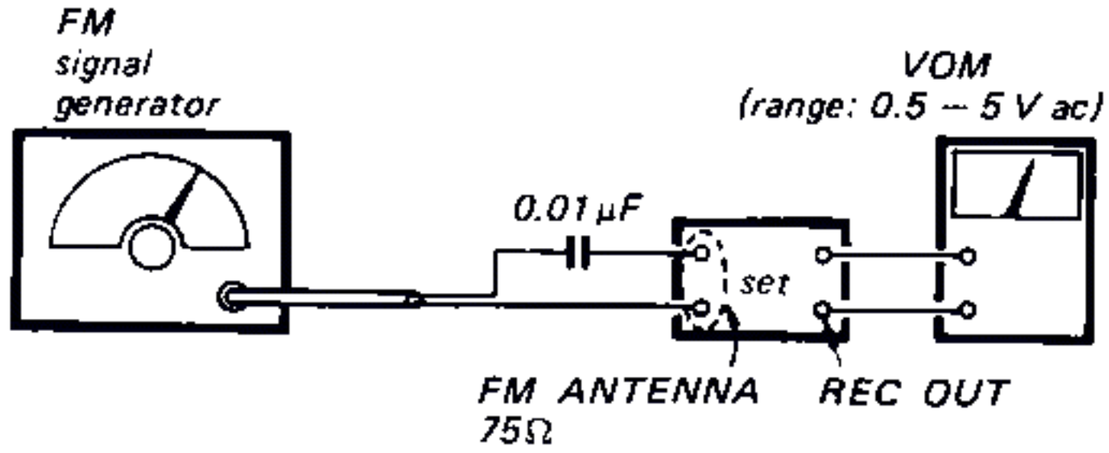
Procedure:

Adjust T101 (secondary side) for a minimum reading on the distortion meter.

- Perform this adjustment after the FM discriminator alignment 1.

FM FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: FM MONO



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT2	108.5 MHz (108.0 MHz)
L3	87.1 MHz (87.5 MHz)

( ): in West Germany

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L1	87.1 MHz (87.5 MHz)
CT1	108.5 MHz (108.0 MHz)

( ): in West Germany

RV206

19 kHz ADJUSTMENT

Setting: FUNCTION (3) switch: TUNER
FUNCTION (1) switch: FM STEREO

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV206 clockwise or counterclockwise and memorize the lighting-up range of D202 (STEREO).
3. Secure RV206 at the center in lighting-up range of both turns as shown below.

TAPE RECORDER SECTION (AEP, E model)

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

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

TAPE SELECT switch . . . . . NORMAL
FUNCTION (2) switch . . . . . CASSETTE/mic
FUNCTION (3) switch . . . . . AUX

Standard Record:

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

Standard Input Level

	MIC	AUX
source impedance	600 Ω	47 kΩ
input level	3.1 mV (−48 dB)	0.44 V (−5 dB)

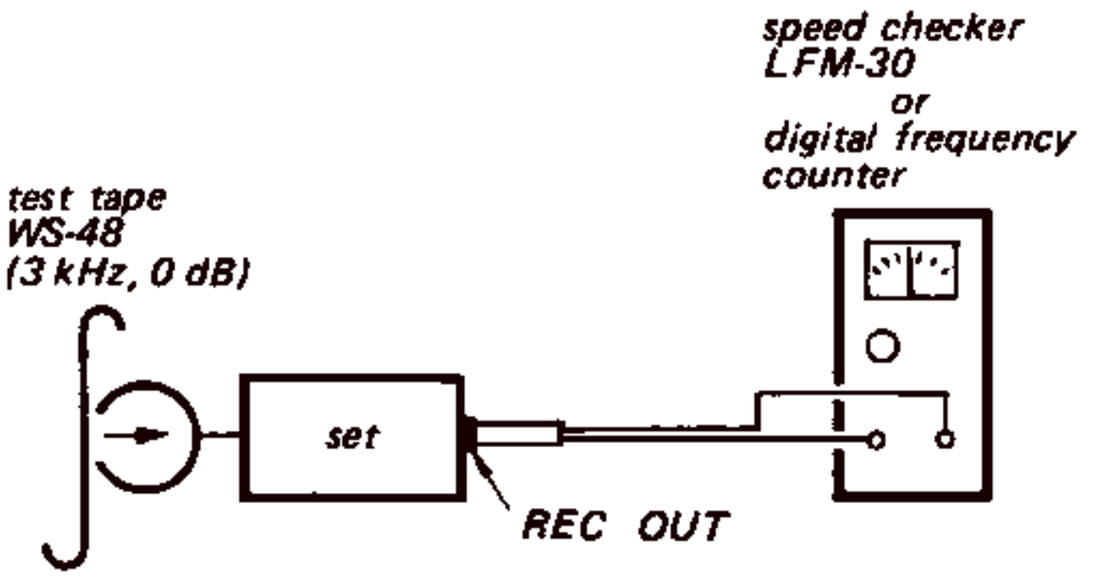
Standard Output Level

	REC OUT
load impedance	10 kΩ
output level	0.25 V (−10 dB)

Tape Speed Adjustment

Procedure:

Mode: playback



Specification:

Speed checker	Digital frequency counter
−2 – +2.5 %	2,940 – 3,075 Hz

Frequency difference between beginning and end of tape should be within 1 % (30 Hz).

Adjustment Location:

If necessary, replace the motor pulley.

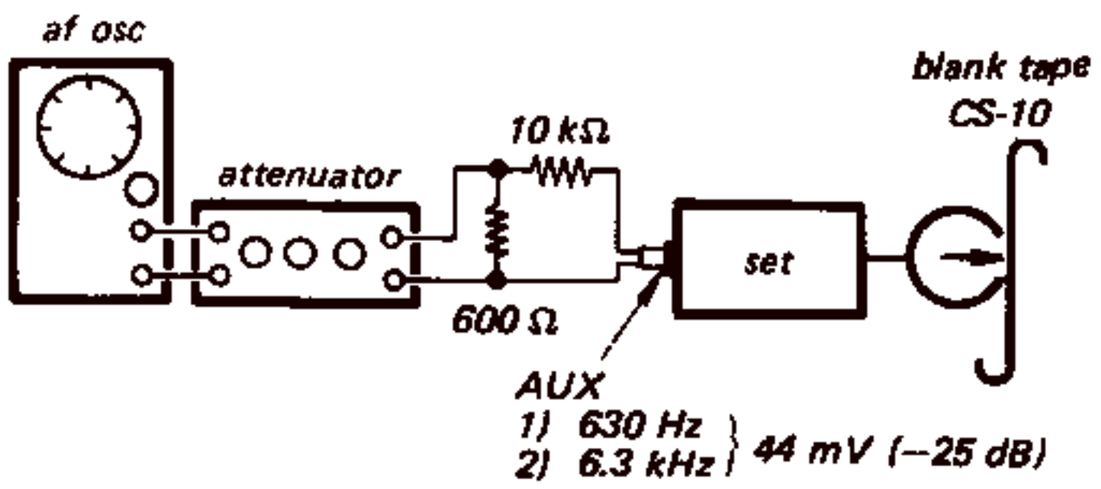
Motor pulley Part No.	Marking	Tape speed change
3-549-088-01	one groove	up ↑
3-549-088-11	no mark	↕
3-549-088-21	two grooves	↓ down

Record Bias Adjustment

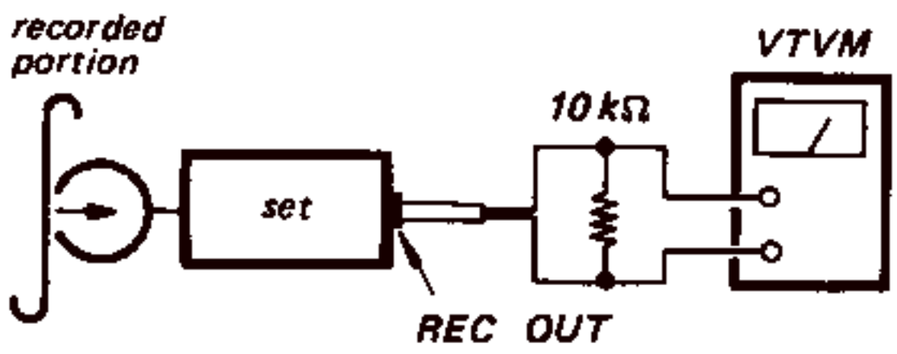
Setting: ISS switch: 2

Procedure:

Mode : standard record (see page 13).



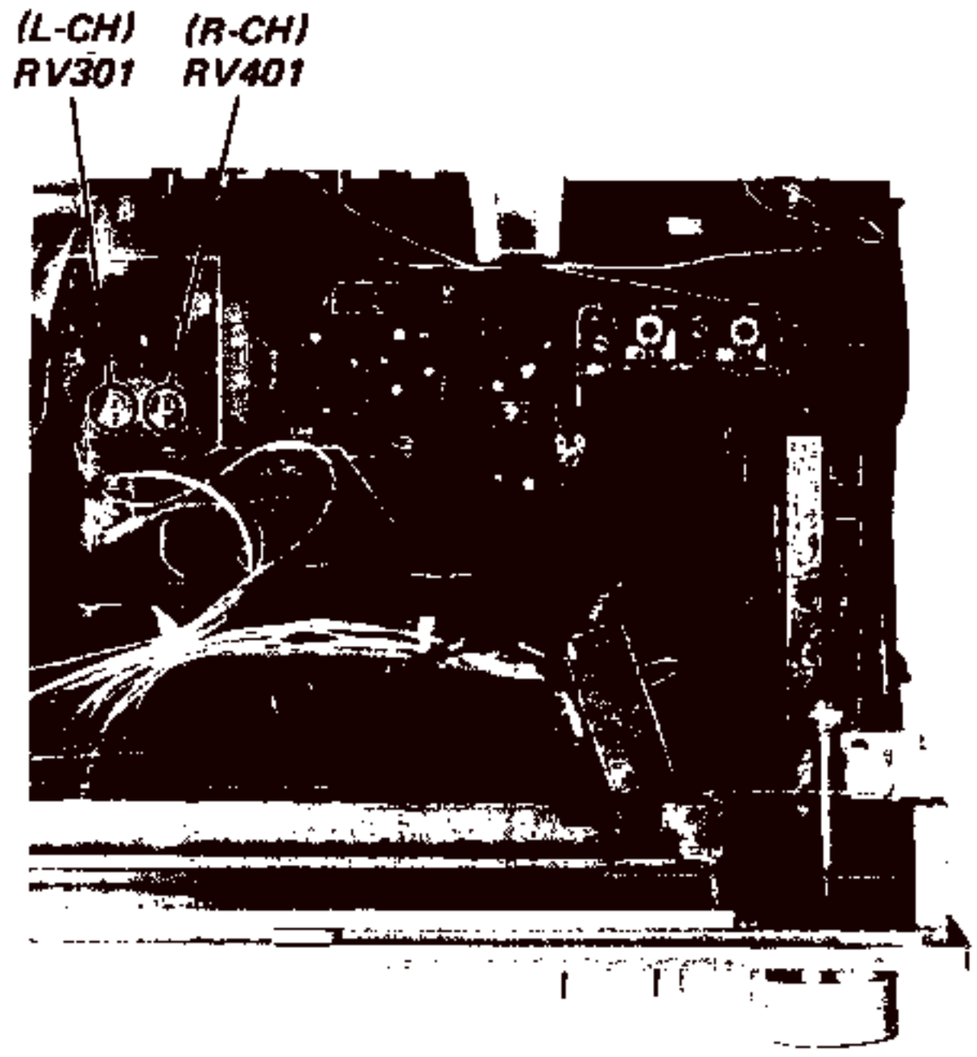
Mode : playback



3. Adjust RV 301 and RV 401 to make 630 Hz and 6.3 kHz signal output levels equal.

   Level difference between 630 Hz and 6.3 kHz signals: –1 – +1 dB.

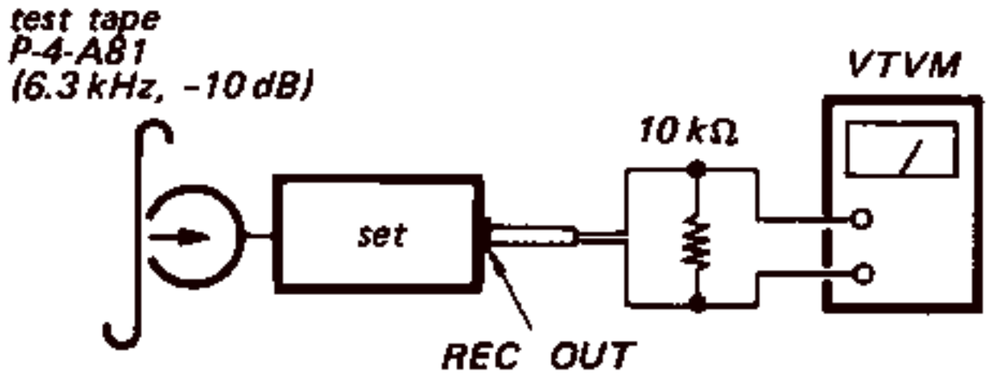
Adjustment Location:



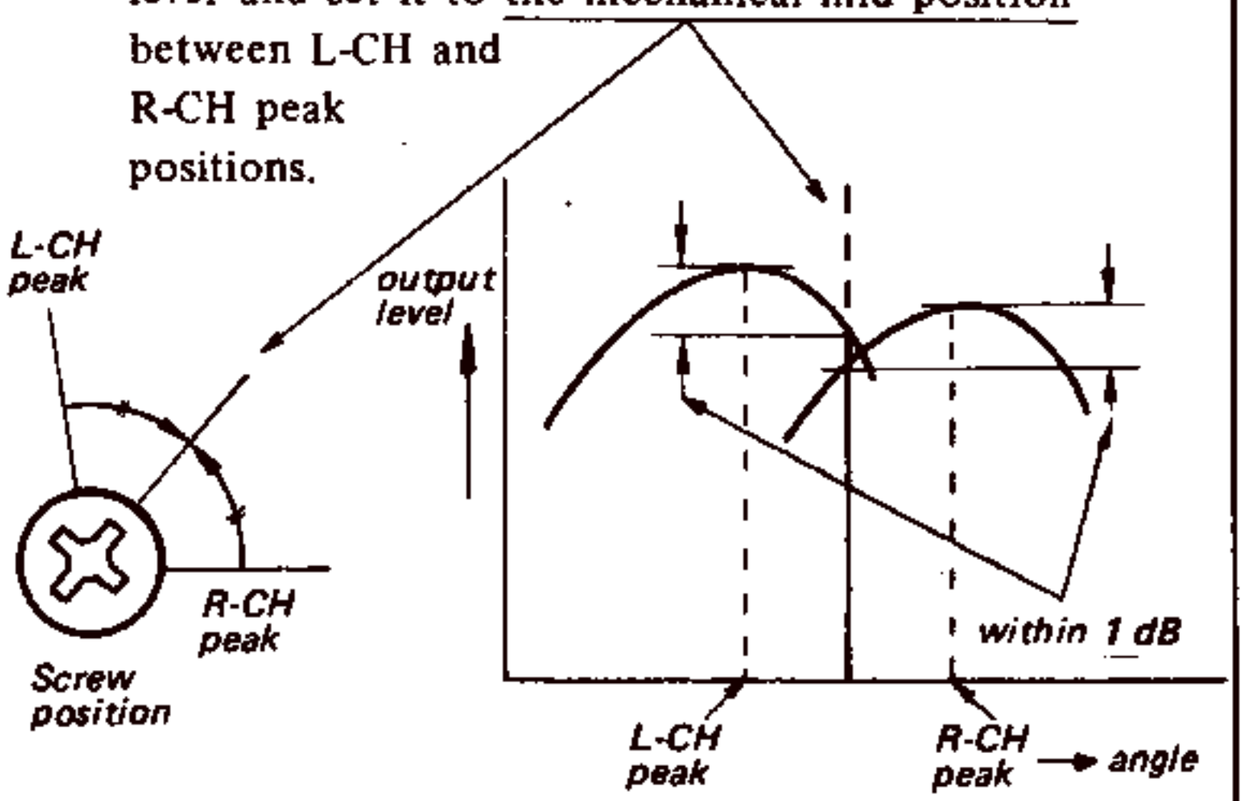
Record/playback Head Azimuth Adjustment

Procedure:

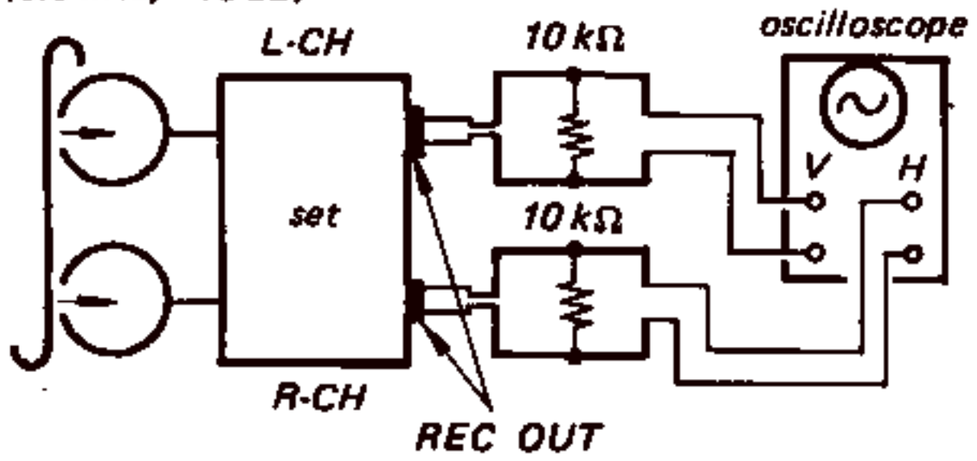
1. Mode: playback

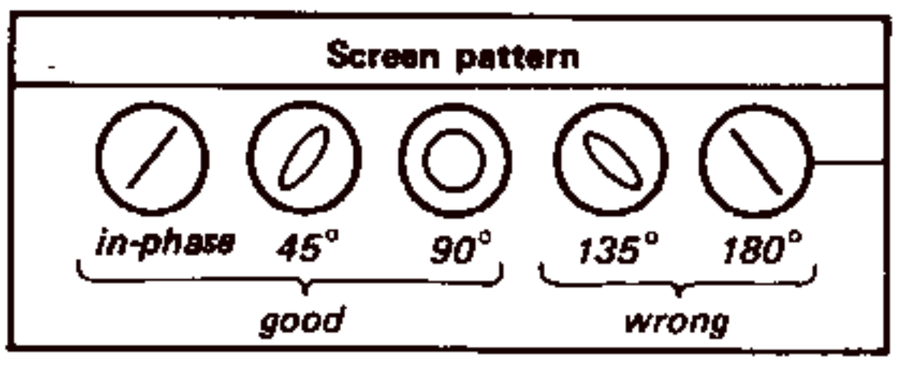


2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak positions.

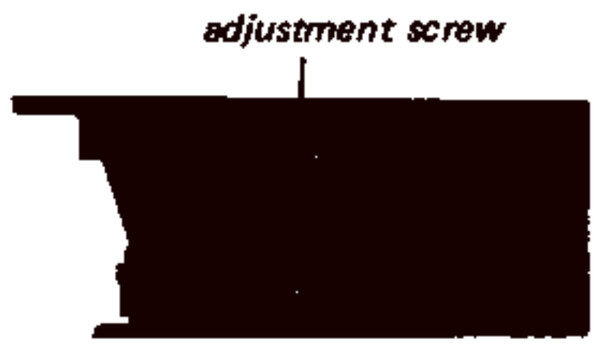


3. Mode: playback





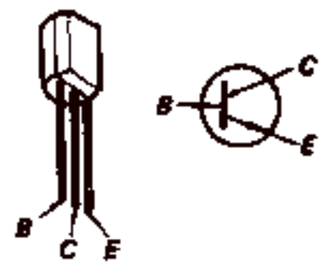
Adjustment Location:



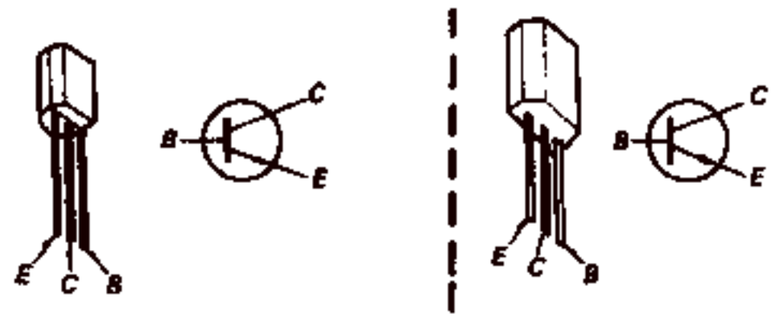
- **Replacement Semiconductors**

For replacement, use semiconductors except in ( ).

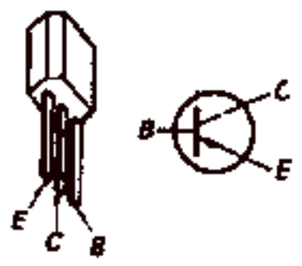
Q1–3 : 2SC710–14 (2SC710)



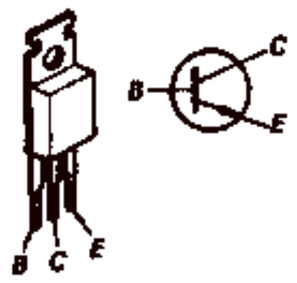
Q101 : 2SC1364
Q301, 401 : 2SC1362 (2SC631A)



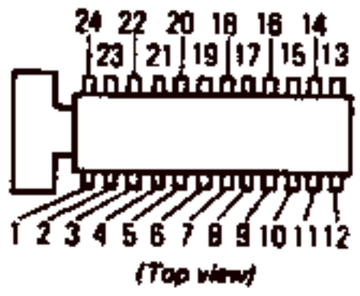
Q302 : 2SA678



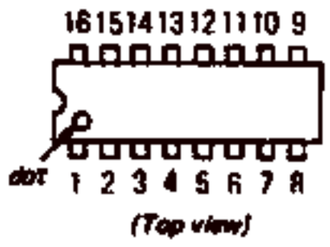
Q901 : 2SC1061 (2SC1173)



IC101 : CX168



IC201 : LA3350

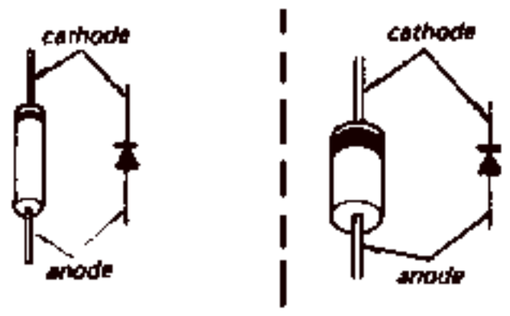


IC301 : μPC4558C

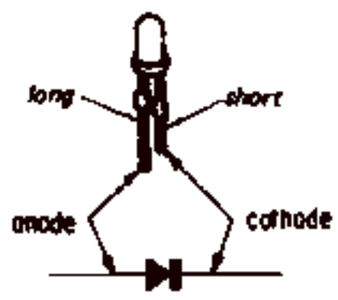
IC501, 601 : HA1350S (HA1350)

D101–104
D201 : 1S1555

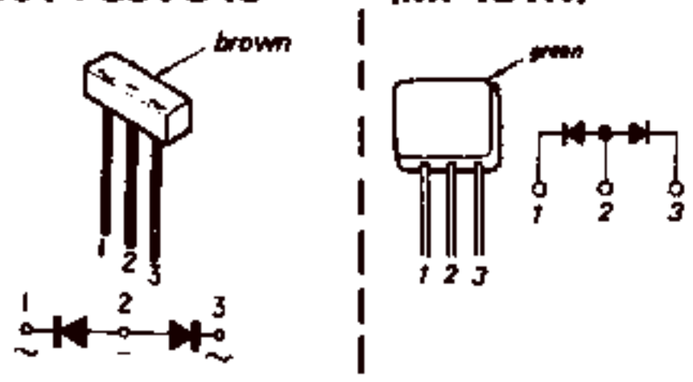
D902 : 10E2 (GP08A)



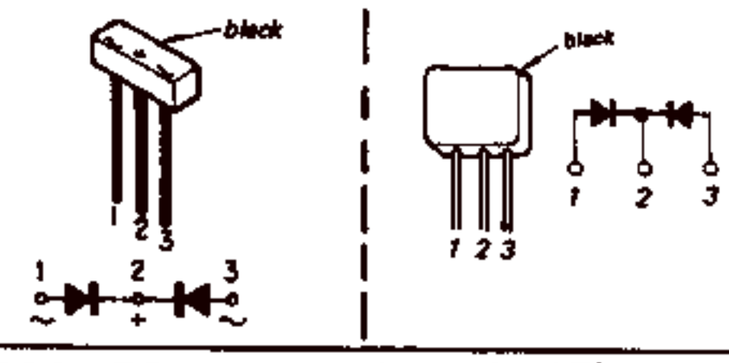
D202, 301 : SLP131B



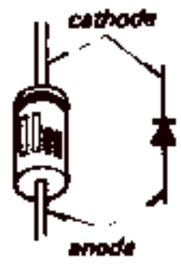
D901 : S3VC40 (MI-151R)



D903 : S3VC40R (MI-151)



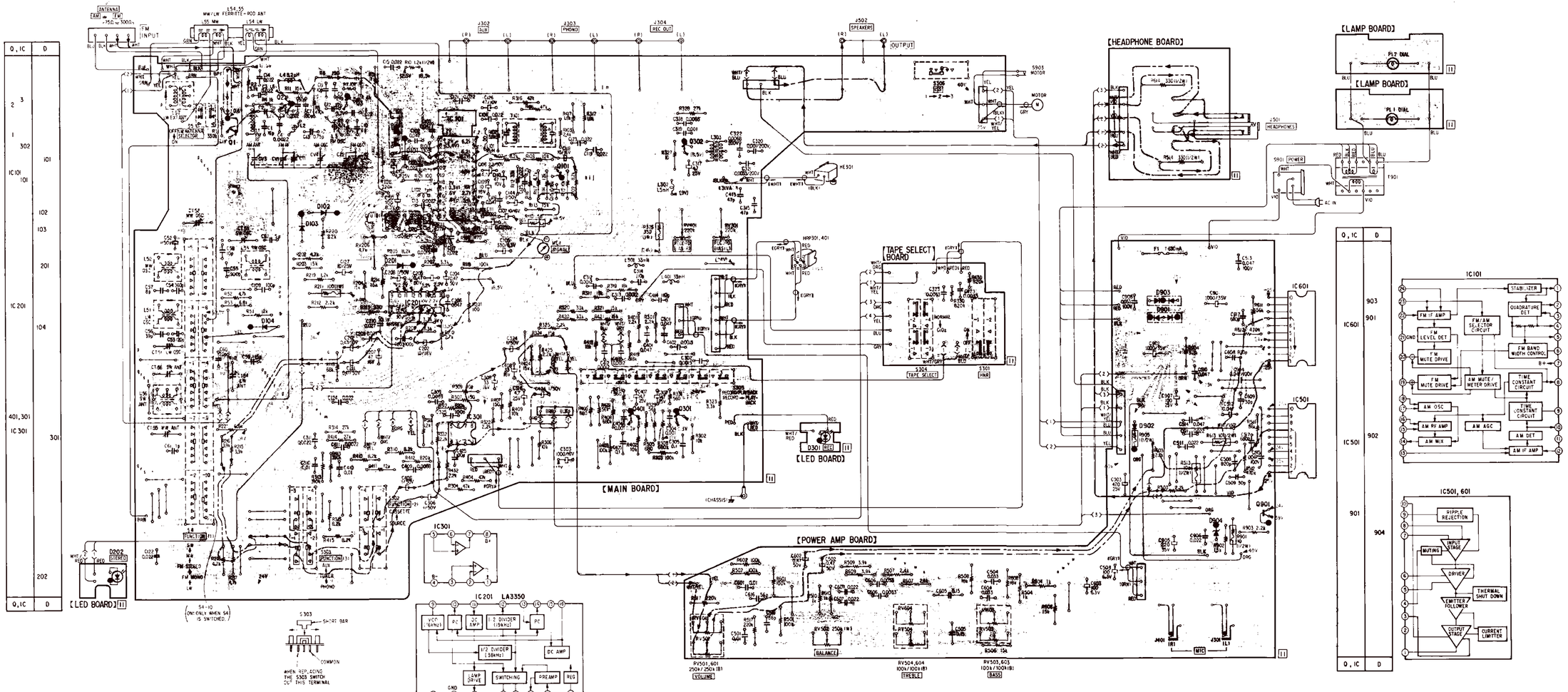
D904 : EQB01-25 (EQA01-25)



SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM (AEP model)

– Conductor Side –


[MAIN BOARD]
[POWER AMP BOARD]
[TAPE SELECT BOARD]
[HEADPHONE BOARD]
[LAMP BOARD]
[LED BOARD]
IC101
IC201 LA3350
IC301
IC501, 601
FM IF AMP
FM LEVEL DET
FM MUTE DRIVE
FM/AM SELECTOR CIRCUIT
FM BAND WIDTH CONTROL
QUADRATURE DET
AM MUTE/METER DRIVE
TIME CONSTANT CIRCUIT
AM OSC
AM RF AMP
AM MIX
AM AGC
AM DET
AM IF AMP
STABILIZER
RIPPLE REJECTION
MUTING
IMPUL STAGE
DRIVER
THERMAL SHUT DOWN
EMITTER FOLLOWER
OUTPUT STAGE
CURRENT LIMITER
VCO (4MHz)
I/C AMP
1/2 DIVIDER (4MHz)
I/C
1/2 DIVIDER (1MHz)
DC AMP
LAMP DRIVE
SWITCHING
PREAMP
REG
GND
VOLUME
TREBLE
BASS
BALANCE
TUNER
PHONO
AUX
SOURCE
FUNCTION
SHORT BAR
COMMON
WHEN REPLACING THE S303 SWITCH CUT THIS TERMINAL
ANTENNA
FM INPUT
OUTPUT
SPEAKERS
MOTOR
POWER
AC IN
HEADPHONES
MIC
IC101
IC201
IC301
IC501
IC601
D101
D102
D103
D104
D202
D301
D302
D303
D501
D502
D901
D902
D903
D904
Q101
Q201
Q301
Q302
Q501
Q901
Q902
Q903
Q904
Q905
Q906
Q907
Q908
Q909
Q910
Q911
Q912
Q913
Q914
Q915
Q916
Q917
Q918
Q919
Q920
Q921
Q922
Q923
Q924
Q925
Q926
Q927
Q928
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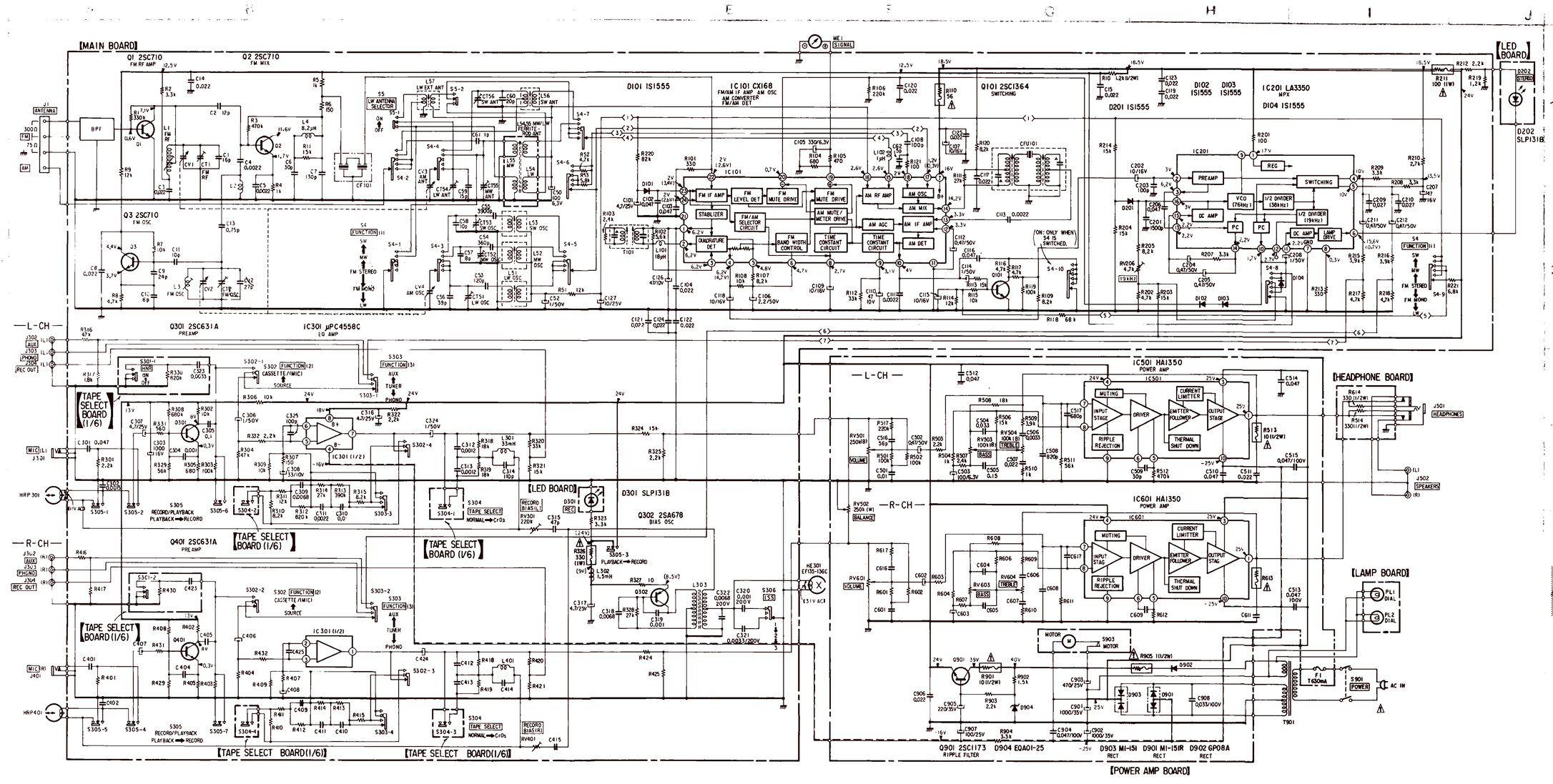
Q932
Q933
Q934
Q935
Q936
Q937
Q938
Q939
Q940



Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF = μμF
  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.
  kΩ = 1000 Ω, MΩ = 1000 kΩ
- ⎓ : fusible resistor.
- △ : internal component.
- —— : B+ bus.
- - - - : B− bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) condictions with a VOM (20 kΩ/V).
  ( ) : AM
  [ ] : record
  < > : LED (D202) light
  (( )) : record (with VTVM)
- Voltage variations may be noted due to normal production tolerances.

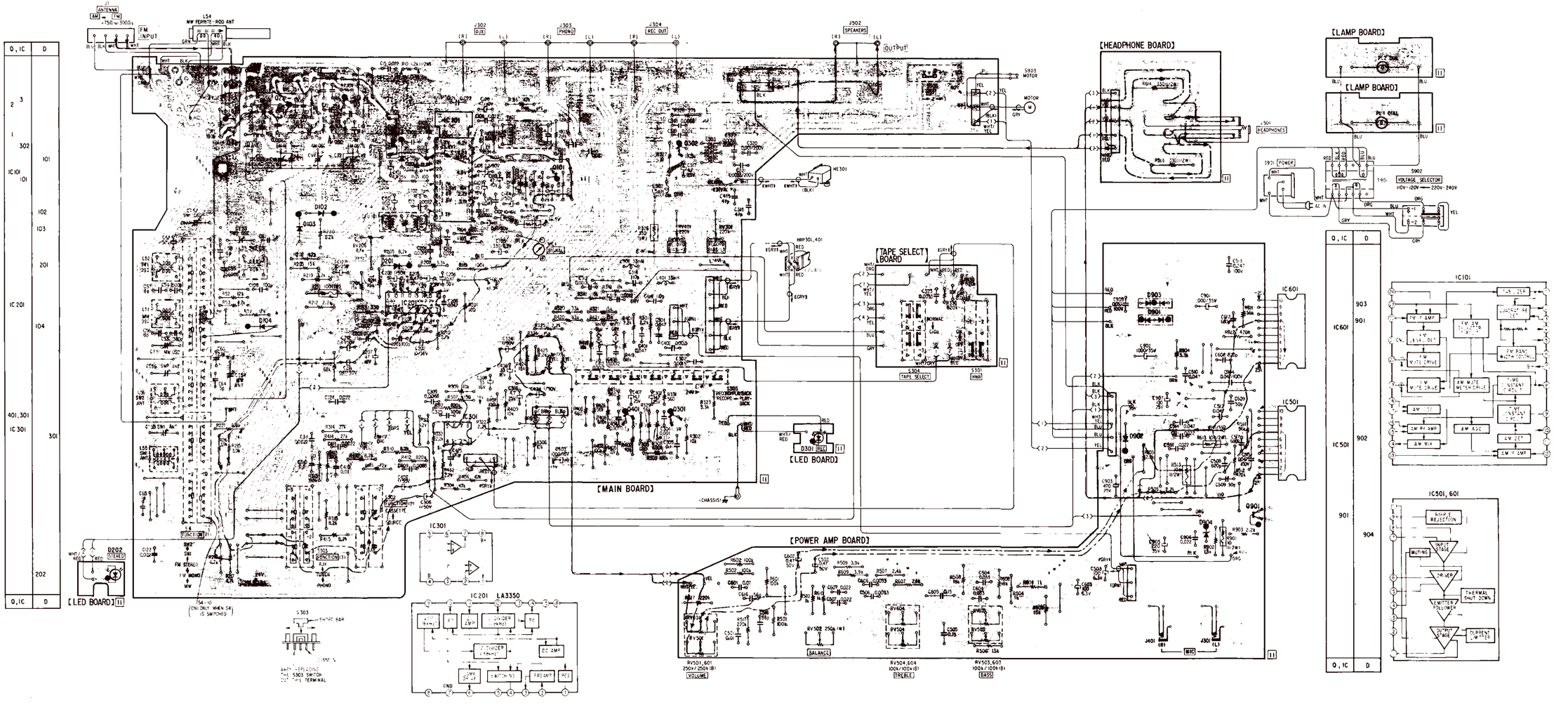
- Switch

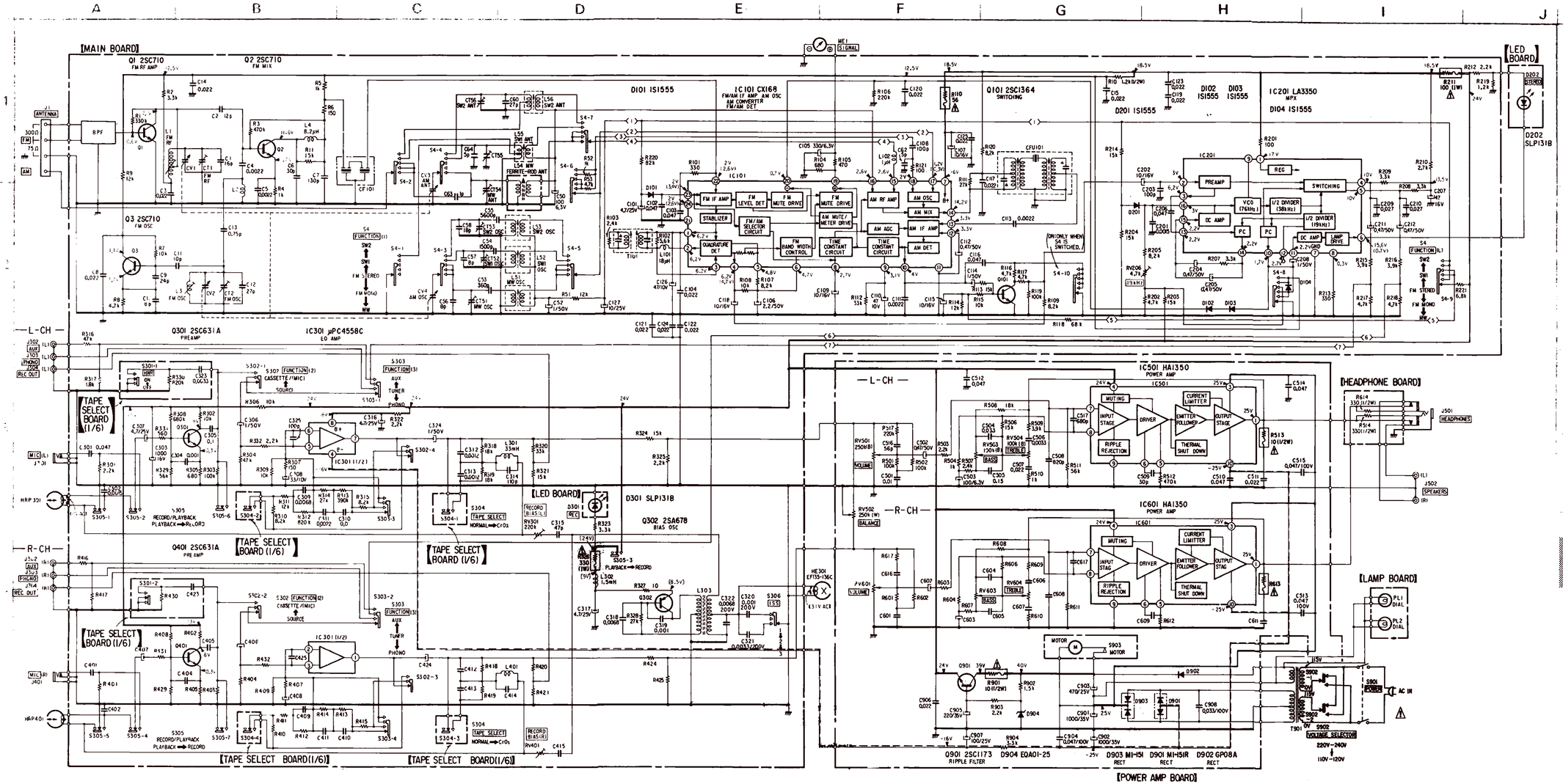
Ref. No.	Switch	Position
S4-1 to 4-10	FUNCTION (1)	FM STEREO
S5-1, 2	LW ANTENNA SELECTOR	OFF
S301-1, 2	HNR	OFF
S302-1 to 302-4	FUNCTION (2)	SOURCE
S303-1 to 303-4	FUNCTION (3)	TUNER
S304-1 to 304-4	TAPE SELECT	NORMAL
S305-1 to 305-7	RECORD/ PLAYBACK	PLAYBACK
S306	ISS	1
S901	POWER	OFF
S903	MOTOR	OFF

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

4-3. MOUNTING DIAGRAM (E model)

– Conductor Side –





Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF = μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000 Ω, MΩ = 1000 kΩ
- : fusible resistor.
- △ : internal component.
- ——— : B+ bus.
- - - - : B– bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) condictions with a VOM (20 kΩ/V).
  ( ) : AM
  [ ] : record
  < > : LED (D202) light
  (( )) : record (with VTVM)
- Voltage variations may be noted due to normal production tolerances.

- Switch

Ref. No.	Switch	Position
S4-1 to 4-10	FUNCTION (1)	FM STEREO
S301-1, 2	HNR	OFF
S302-1 to 302-4	FUNCTION (2)	SOURCE
S303-1 to 303-4	FUNCTION (3)	TUNER
S304-1 to 304-4	TAPE SELECT	NORMAL
S305-1 to 305-7	RECORD/ PLAYBACK	PLAYBACK
S306	ISS	1
S901	POWER	OFF
S902	VOLTAGE SELECTOR	220 V–240 V
S903	MOTOR	OFF

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

SECTION 5

EXPLODED VIEWS

A B C

1

2

3

4

5

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

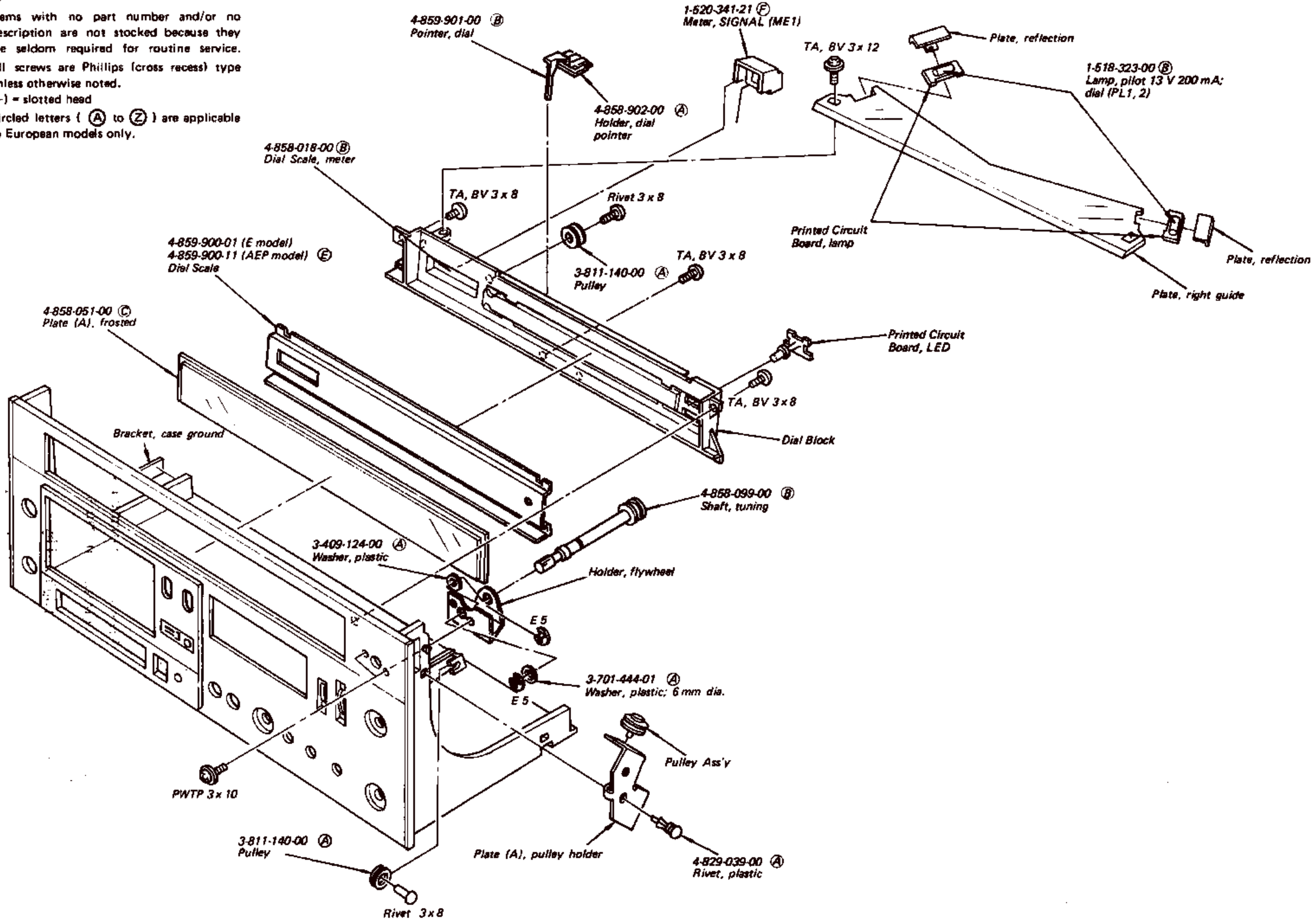
(1)

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

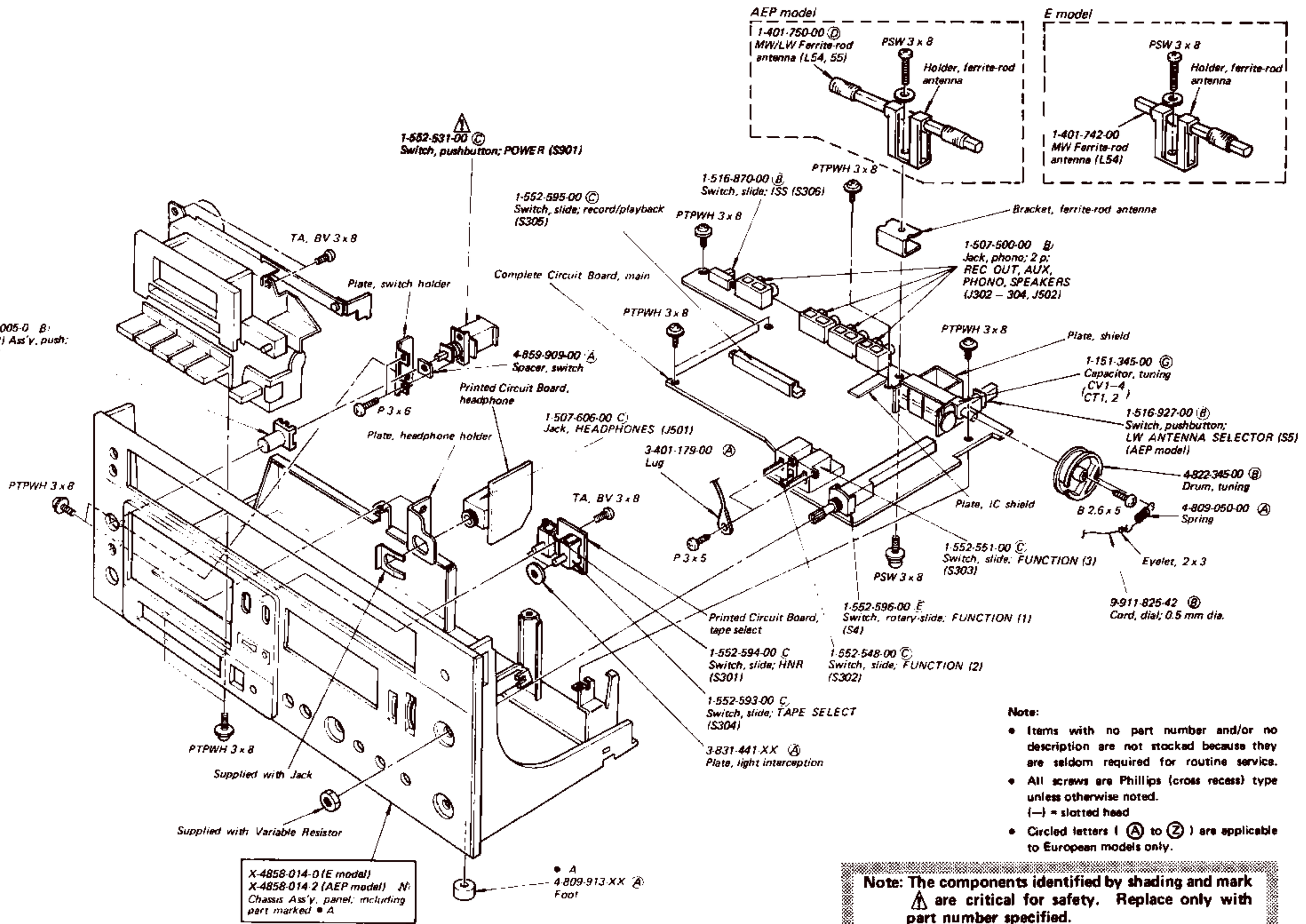
Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

(2)



(3)



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

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

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
• Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

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

TA, BV 4 x 16
W 4
⚠ 1-446-225-00 (E model)
⚠ 1-446-226-00 (AEP model) Ⓐ
Transformer, power (T901)
Heat Sink
PA, BV 4 x 12
⚠ 4-849-786-00 Ⓑ
Stopper, cord (AEP model)
⚠ 3-701-682-00
Stopper, cord (E model)
⚠ 1-552-535-00
Switch, VOLTAGE SELECTOR (S902) (E model)
Stopper, transformer
4-856-330-00 Ⓐ
Holder, damper
TA, BV 3 x 12
4-856-335-00 Ⓒ
Damper
Plate (B), circuit board holder
4-848-517-00 Ⓑ
Sheet
PTPWH 3 x 8
Holder, transistor
Plate (A), circuit board holder
Printed Circuit Board, LED
PTPWH 3 x 8
⚠ 1-532-284-00 Ⓑ
Fuse, T630 mA (F1) (AEP model)
⚠ 1-533-131-00 Ⓐ
Holder, fuse (AEP model)
1-226-323-00 Ⓒ
Resistor, variable; 100 kΩ/100 kΩ (B): BASS, TREBLE (RV503, 504, 603, 604)
1-507-605-00 Ⓑ
Jack, MIC (J301, 401)
1-226-316-00 Ⓒ
Resistor, variable; 250 kΩ/250 kΩ (B): VOLUME (RV501, 601)
Complete Circuit Board, power amp
1-226-367-00 Ⓑ
Resistor, variable; 250 kΩ (W) BALANCE (RV502)
Supplied with Variable Resistor

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- (nnT) shows the number of coils in spring.
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

(6)

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- (□□T) shows the number of coils in spring.
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

A B C D

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- (□□T) shows the number of coils in spring.
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

A B C D

1 2 3 4 5

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- (□□T) shows the number of coils in spring.
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

(8)

It's Free

SECTION 6

ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
		SEMICONDUCTORS
		Transistors
⇒Q1–3	8-729-671-14 Ⓑ	2SC710–14
Q101	8-729-663-47 Ⓑ	2SC1364
⇒Q301, 401	8-729-665-47 Ⓑ	2SC1362
Q302	8-727-788-00 Ⓑ	2SA678
⇒Q901	8-729-316-12 Ⓓ	2SC1061
		ICs
IC101	8-751-680-01 Ⓘ	CX168
IC201	8-759-833-50 Ⓕ	LA3350
IC301	8-759-145-58 Ⓓ	μPC4558C
⇒IC501, 601	8-759-313-51 Ⓖ	HA1350S
		Diodes
D101–104, D201	8-719-815-55 Ⓑ	1S1555
D202, 301	8-719-901-31 Ⓑ	SLP131B
⇒D901	8-719-500-34 Ⓒ	S3VC40
⇒D902	8-719-200-02 Ⓑ	10E2
⇒D903	8-719-501-34 Ⓒ	S3VC40R
⇒D904	8-719-931-25 Ⓑ	EQB01-25
		COILS
L4	1-407-189-XX Ⓐ	8.2 μH, microinductor
L51	1-405-813-00 Ⓑ	LW Osc (AEP model)
	1-405-814-00	MW Osc (E model)
L52	1-405-814-00 Ⓑ	MW Osc (AEP model)
	1-405-815-00	SW1 Osc (E model)
L53	1-405-812-00 Ⓑ	SW Osc (AEP model)
	1-405-820-00	SW2 Osc (E model)
L54	1-401-742-11	MW Ferrite-rod Antenna (E model)
L54, 55	1-401-750-00 Ⓓ	MW/LW Ferrite-rod Antenna (AEP model)
L55	1-401-745-00	SW1 Antenna (E model)
L56	1-401-741-00 Ⓑ	SW Antenna (AEP model)
	1-401-746-00	SW2 Antenna (E model)
L57	1-401-749-00 Ⓑ	LW Ext Antenna (AEP model)

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No.	*Part No.*	*Description*
L101	1-407-741-00 Ⓑ	18 μH, microinducter
L102	1-407-178-XX Ⓐ	1 μH, microinductor
L301, 401	1-407-964-00 Ⓑ	33 mH, microinductor
L302	1-407-213-XX Ⓑ	1.5 mH, microinductor
L303	1-433-202-00 Ⓑ	Bias osc
		TRANSFORMERS
CFU101	1-403-827-00 Ⓒ	AM IFT Triple Tune
T101	1-404-011-00 Ⓒ	FM IFT
T901	⚠1-446-225-00	Power (E model)
	⚠1-446-228-00 Ⓛ	Power (AEP model)
		CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μμF, elect : electrolytic

C1	1-102-952-00 Ⓐ	16 p		
C2	1-102-949-00 Ⓐ	12 p		
C3	1-101-005-00 Ⓐ	0.022		
C4, 5	1-101-002-00 Ⓐ	0.0022		
C6	1-102-962-00 Ⓐ	30 p		
C7	1-101-081-00 Ⓐ	130 p		
C8	1-101-005-00 Ⓐ	0.022		
C9	1-101-982-00 Ⓐ	24 p		
C10	1-102-684-00 Ⓐ	8 p		
C11	1-101-978-00 Ⓐ	10 p		
C12	1-102-643-00 Ⓐ	27 p		
C13	1-101-586-00 Ⓐ	0.75 p		
C14, 15	1-101-005-00 Ⓐ	0.022		
C50	1-121-414-00 Ⓐ	100	6.3 V	elect
C52	1-121-391-00 Ⓐ	1	50 V	elect
C53	1-103-703-00 Ⓐ	120 p		polystyrol (AEP model)
	1-103-714-00	360 p		polystyrol (E model)
C54	1-103-714-00 Ⓐ	360 p		polystyrol (AEP model)
	1-103-729-00	1500 p		polystyrol (E model)
C55	1-103-739-00 Ⓑ	3900 p		polystyrol (AEP model)
	1-103-743-00	5600 p		polystyrol (E model)
C56	1-102-283-00	8 p (E model)		
	1-102-693-00 Ⓐ	39 p (AEP model)		

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

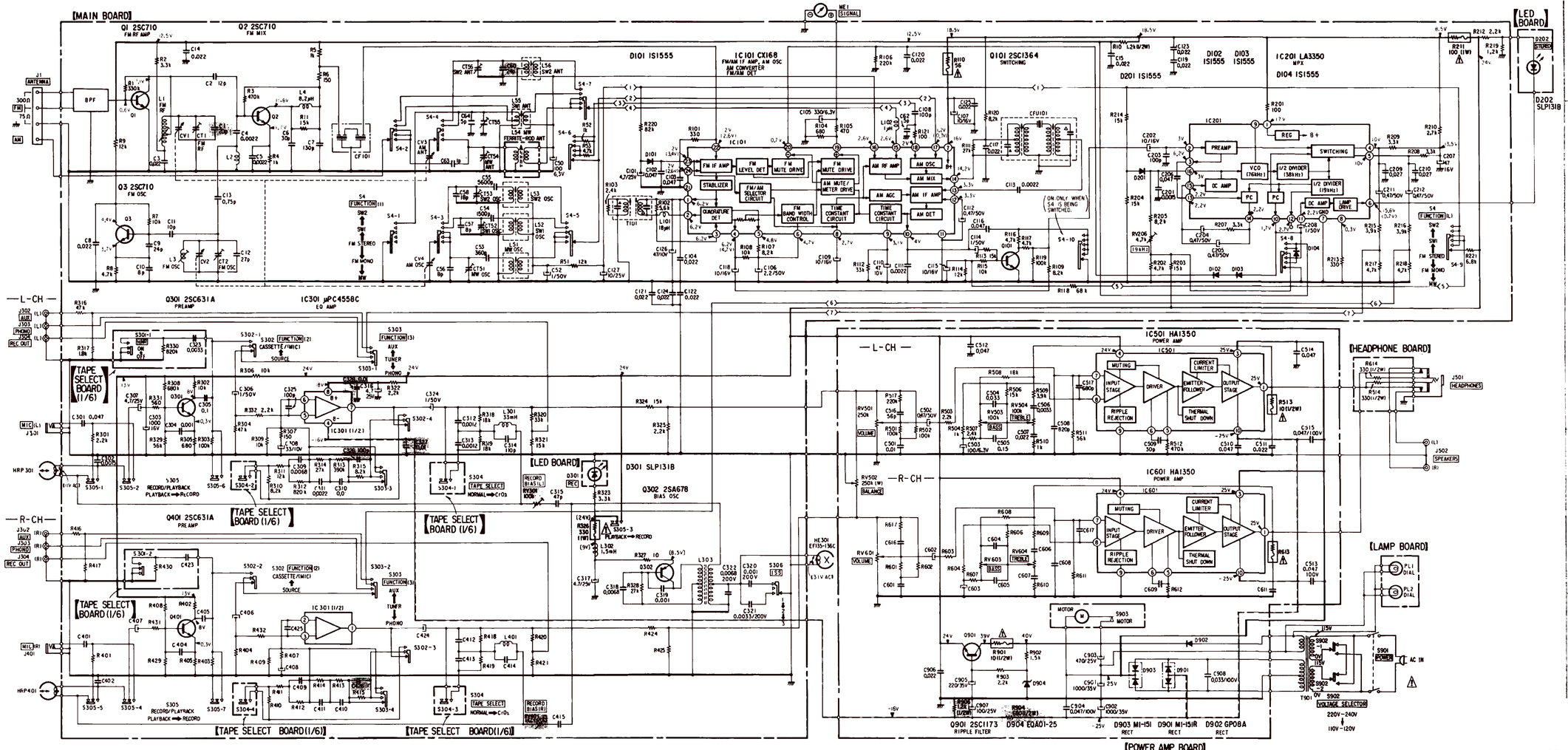
Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*		*Description*		
C57	1-102-283-00	Ⓐ	8 p		
C58	1-102-295-00		18 p (E model)		
	1-102-253-00	Ⓐ	10 p (AEP model)		
C59	1-102-951-00	Ⓐ	15 p (AEP model)		
C60	1-102-961-00		27 p (E model)		
	1-102-958-00	Ⓐ	20 p (AEP model)		
C61	1-102-934-00	Ⓐ	1 p (AEP model)		
C62	1-102-942-00	Ⓐ	5 p		
C63	1-102-934-00		1 p (E model)		
C64	1-102-942-00		5 p (E model)		
C101	1-121-395-00	Ⓐ	4.7	25 V	elect
C102, 103	1-101-925-00	Ⓐ	0.047		
C104	1-101-005-00	Ⓐ	0.022		
C105	1-121-751-00	Ⓑ	330	6.3 V	elect
C106	1-121-450-00	Ⓐ	2.2	50 V	elect
C107	1-121-651-00	Ⓐ	10	16 V	elect
C108	1-107-085-00	Ⓐ	100 p silvered mica		
C109	1-121-651-00	Ⓐ	10	16 V	elect
C110	1-121-352-00	Ⓐ	47	10 V	elect
C111	1-161-043-00	Ⓐ	0.0022		(semiconductor)
C112	1-121-726-00	Ⓐ	0.47	50 V	elect
C113	1-101-002-00	Ⓐ	0.0022		
C114	1-121-391-00	Ⓐ	1	50 V	elect
C115	1-121-651-00	Ⓐ	10	16 V	elect
C116	1-101-925-00	Ⓐ	0.047		
C117	1-101-005-00	Ⓐ	0.022		
C118	1-121-651-00	Ⓐ	10	16 V	elect
C119–125	1-101-005-00	Ⓐ	0.022		
C126	1-121-352-00	Ⓐ	47	10 V	elect
C127	1-121-398-00	Ⓐ	10	25 V	elect
C201	1-103-729-00	Ⓐ	1500 p		polystyrol
C202	1-121-651-00	Ⓐ	10	16 V	elect
C203	1-102-973-00	Ⓐ	100 p		
C204, 205	1-121-726-00	Ⓐ	0.47	50 V	elect
C206	1-101-925-00	Ⓐ	0.047		
C207	1-121-409-00	Ⓐ	47	16 V	elect
C208	1-121-391-00	Ⓐ	1	50 V	elect
C209, 210	1-161-018-00	Ⓐ	0.027		(semiconductor)
C211, 212	1-121-726-00	Ⓐ	0.47	50 V	elect
C301, 401	1-108-595-00	Ⓐ	0.047		mylar
C302, 402	1-108-228-00	Ⓐ	0.0015		mylar
C303	1-121-245-00	Ⓑ	1000	16 V	elect
C304, 404	1-102-074-00	Ⓐ	0.001		
C305, 405	1-108-251-00	Ⓐ	0.1		mylar
C306, 406	1-121-391-00	Ⓐ	1	50 V	elect
C307, 407	1-121-915-00	Ⓑ	4.7	25 V	elect
C308, 408	1-121-402-00	Ⓐ	33	10 V	elect
C309, 409	1-108-237-00	Ⓐ	0.0068		mylar
C310, 410	1-108-239-00	Ⓐ	0.01		mylar
C311, 411	1-108-230-00	Ⓐ	0.0022		mylar
C312, 412, C313, 413	1-108-351-00	Ⓐ	0.0012		mylar
C314, 414	1-102-815-00	Ⓐ	110 p		
C315, 415	1-101-881-00	Ⓐ	47 p		
C316, 317	1-121-395-00	Ⓐ	4.7	25 V	elect
C318	1-108-237-00	Ⓐ	0.0068		mylar
C319	1-102-074-00	Ⓐ	0.001		
C320	1-108-409-00	Ⓐ	0.001	200 V	mylar
C321	1-108-415-00	Ⓐ	0.0033	200 V	mylar
C322	1-108-419-00	Ⓐ	0.0068	200 V	mylar
C323, 423	1-102-123-00	Ⓐ	0.0033		
C324, 424	1-121-391-00	Ⓐ	1	50 V	elect
C325, 425	1-102-975-00	Ⓐ	100 p		
C501, 601	1-108-239-00	Ⓐ	0.01		mylar
C502, 602	1-121-726-00	Ⓐ	0.47	50 V	elect
C503, 603	1-121-413-00	Ⓐ	100	6.3 V	elect
C504, 604	1-108-591-00	Ⓐ	0.033		mylar
C505, 605	1-108-252-00	Ⓑ	0.15		mylar
C506, 606	1-108-567-00	Ⓐ	0.0033		mylar
C507, 607	1-108-242-00	Ⓐ	0.022		mylar
C508, 608	1-102-117-00	Ⓐ	820 p		
C509, 609	1-102-962-00	Ⓐ	30 p		
C510	1-101-006-00	Ⓐ	0.047		
C511, 611	1-101-005-00	Ⓐ	0.022		
C512	1-101-006-00	Ⓐ	0.047		

E model HST-39
Supplement No. 1

6. SCHEMATIC DIAGRAM (E model)

: changed portion



Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF : μμF
  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.
  kΩ : 1000 Ω, MΩ : 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : fusible resistor.
- △ : internal component.
- ——— : B+ bus.
- – – – : B– bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) condictions with a VOM (20 kΩ/V).
  ( ) : AM
  [ ] : record
  < > : LED (D202) : ON
  (( )) : record (with VTVM)
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S4-1 to 4-10	FUNCTION (1)	FM STEREO
S301-1, 2	HNR	OFF
S302-1 to 302-4	FUNCTION (2)	SOURCE
S303-1 to 303-4	FUNCTION (3)	TUNER
S304-1 to 304-4	TAPE SELECT	NORMAL
S305-1 to 305-7	RECORD/ PLAYBACK	PLAYBACK
S306	ISS	1
S901	POWER	OFF
S902	VOLTAGE SELECTOR	220 V–240 V
S903	MOTOR	OFF

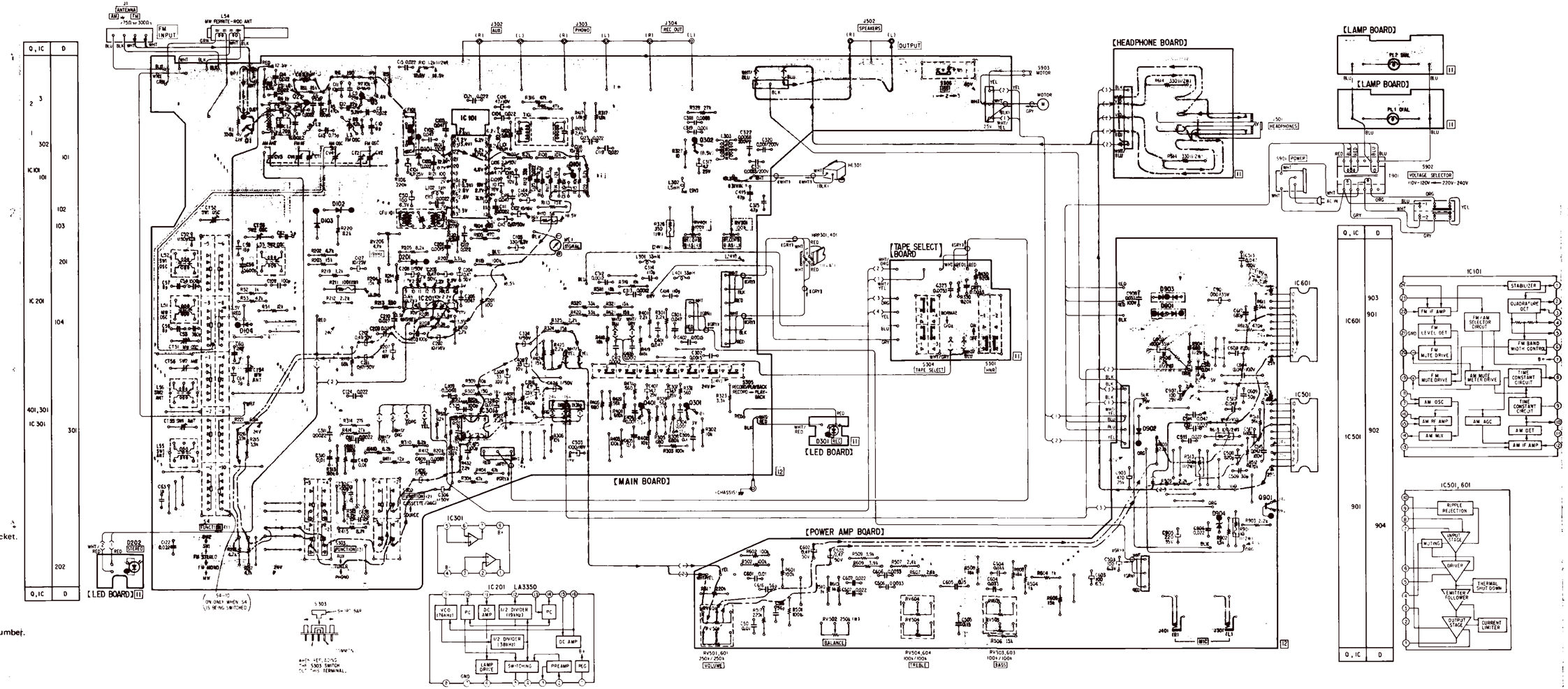
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5. MOUNTING DIAGRAM (E model)

– Conductor Side –

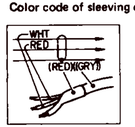
[ ]: changed portion

Replacement Semiconductors: See page 3.



Note:

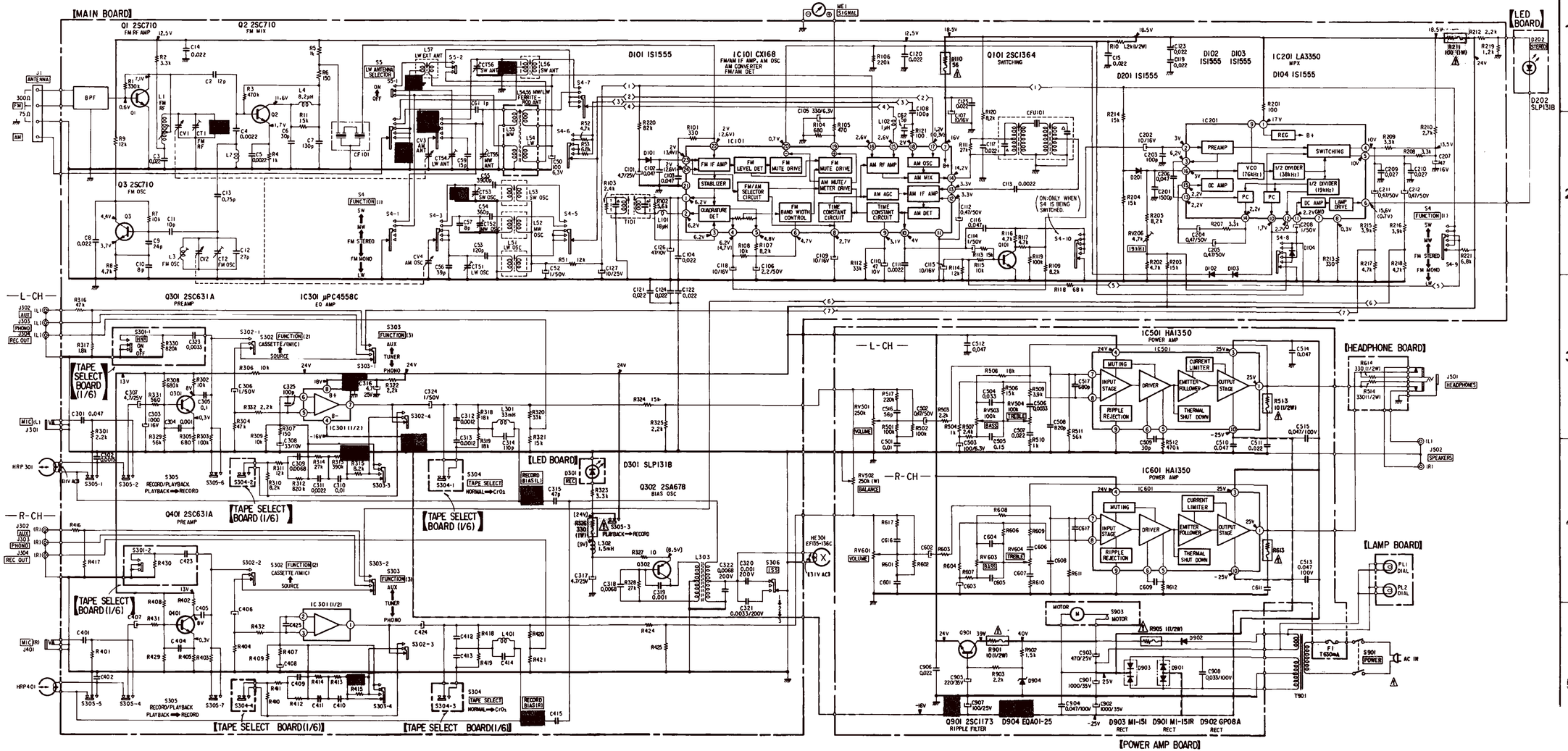
- Color code of sleeving over the end of the jacket.



- : indicates side identified with part number.
- : B+ pattern
- Signal Path
  - ——→ : L-CH audio
  - —·—→ : R-CH audio
  - – – –→ : FM or common

4. SCHEMATIC DIAGRAM (AEP model)

changed portion



Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : fusible resistor.
- △ : internal component.
- ——— : B+ bus.
- - - - : B− bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) condictions with a VOM (20 kΩ/V).
  ( ) : AM
  [ ] : record
  < > : LED (D202): ON
  (( )) : record (with VTVM)
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S4-1 to 4-10	FUNCTION (1)	FM STEREO
S301-1, 2	HNR	OFF
S302-1 to 302-4	FUNCTION (2)	SOURCE
S303-1 to 303-4	FUNCTION (3)	TUNER
S304-1 to 304-4	TAPE SELECT	NORMAL
S305-1 to 305-7	RECORD/ PLAYBACK	PLAYBACK
S306	ISS	1
S901	POWER	OFF
S902	VOLTAGE SELECTOR	220 V–240 V
S903	MOTOR	OFF

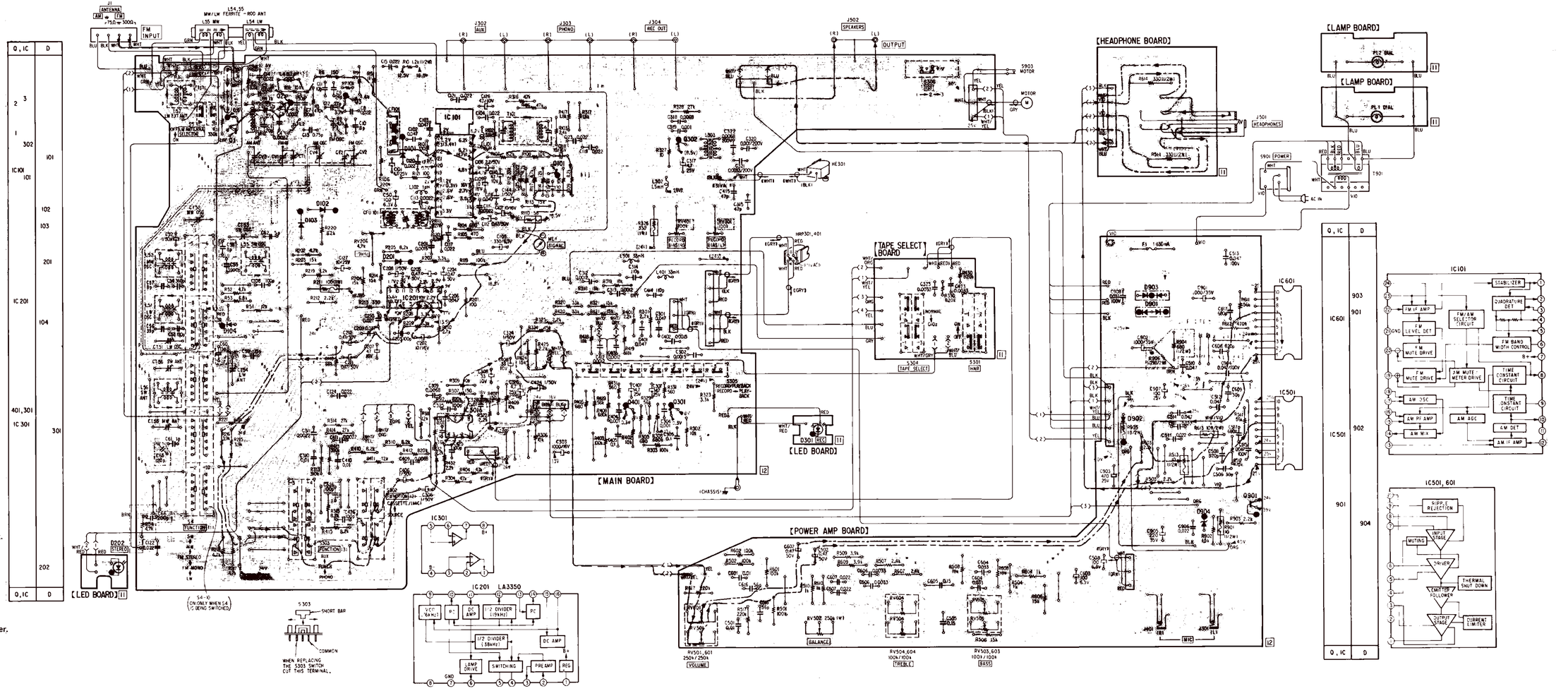
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

3. MOUNTING DIAGRAM (AEP model)

– Conductor Side –

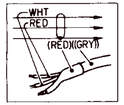
[ ] : changed portion

Replacement Semiconductors: See page 3.



Note:

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



- [ ] : indicates side identified with part number.
- : B+ pattern
- Signal Path
  - —→: L-CH audio
  - -·-→: R-CH audio
  - – – →: FM or common

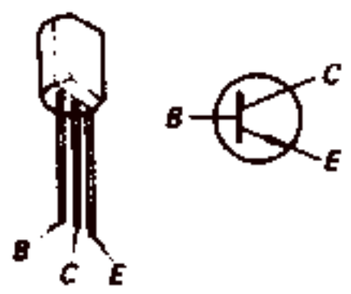
2. INTERCHANGEABLITY

The former and new circuit boards are interchangeable.

- **Replacement Semiconductors**

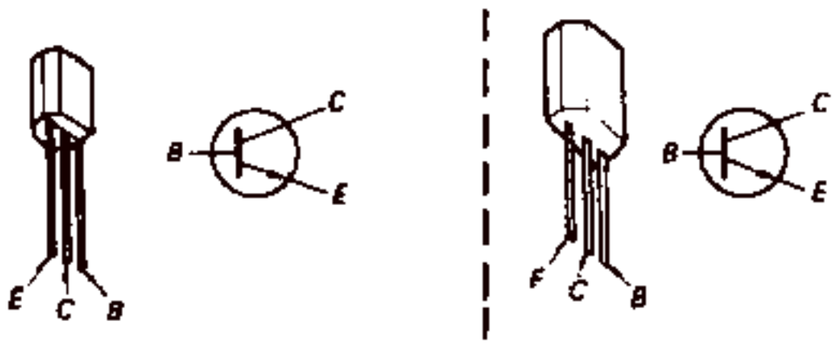
  For replacement, use semiconductors except in ( ).

Q1–3 : 2SC710-14 (2SC710)



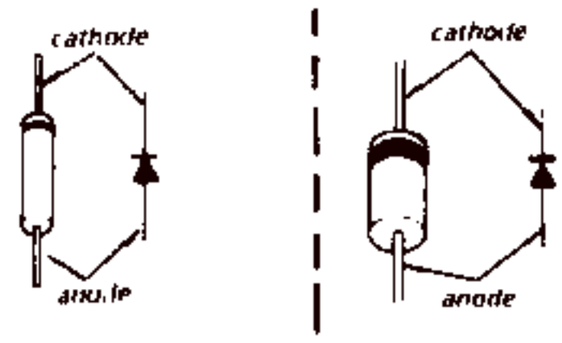
IC501, 601 : HA1350S (HA1350)

Q101 : 2SC1364
Q301, 401 : 2SC1362 **(2SC631A)**

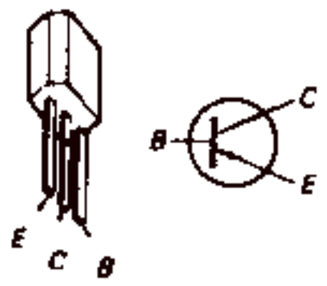


D101–104
D201 } **: 1S1555**

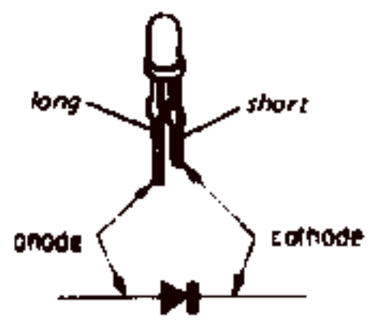
D902 : 10E2 **(GP08A)**



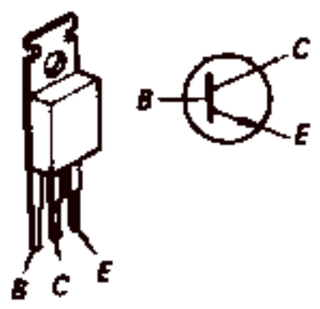
Q302 : 2SA678



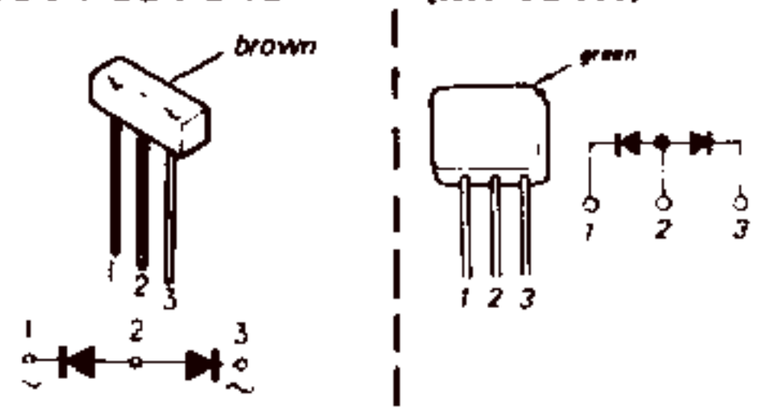
D202, 301 : SLP131B



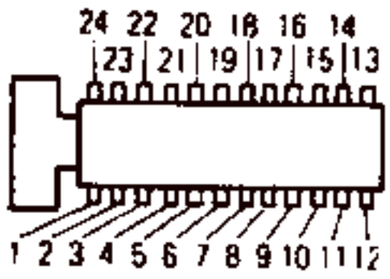
Q901 : 2SC1061 (2SC1173)



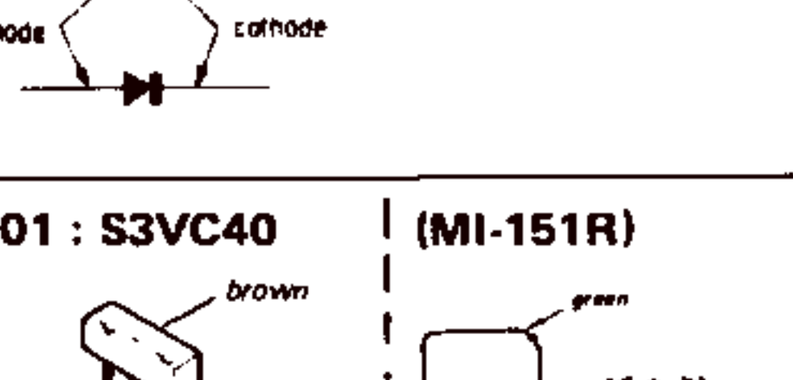
D901 : S3VC40 **(MI-151R)**



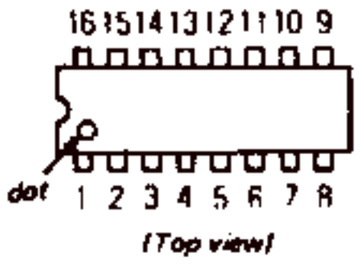
IC101 : CX168



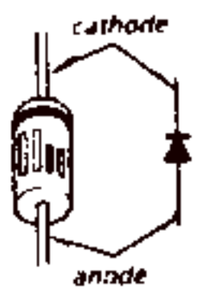
D903 : S3VC40R **(MI-151)**



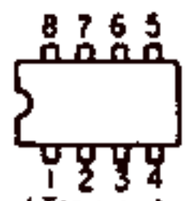
IC201 : LA3350



D904 : EQB01-25 **(EQA01-25)**



IC301 : μPC4558C



HST-39

Supplement No. 1

1. CHANGED PARTS LIST

• Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

AEP model

Ref. No.	Former Part No./Part Value	New Part No./Part Value
C1	1-102-952-00 Ⓐ 16 p	1-102-958-00 Ⓐ 20 p
C58	1-102-253-00 Ⓐ 10 p	1-102-283-00 Ⓐ 8 p
C60	1-102-958-00 Ⓐ 20 p	1-102-951-00 Ⓐ 15 p
C65	————	1-102-816-21 Ⓐ 120 p
C66	————	1-102-977-21 Ⓐ 200 p
C326, 426	————	1-102-973-00 Ⓐ 100 p
C327, 328	————	1-101-004-00 Ⓐ 0.01
R54	————	1-246-489-00 Ⓐ 4.7 k ¼ W carbon
R904	————	1-244-869-00 Ⓐ 680 ½ W carbon
R906	————	1-244-875-00 Ⓐ 1.2 k ½ W carbon
RV301, 401	1-226-240-00 Ⓐ 220 k (B), adjustable; record bias	1-226-239-00 Ⓐ 100 k (B), adjustable; record bias

E model

Ref. No.	Former Part No./Part Value	New Part No./Part Value
C1	1-102-952-00 16 p	1-102-958-00 20 p
C60	1-102-961-00 27 p	1-102-960-00 24 p
C326, 426	————	1-102-973-00 100 p
C327, 328	————	1-101-004-00 0.01
R904	————	1-244-869-00 680 ½ W carbon
R906	————	1-244-875-00 1.2 k ½ W carbon
RV301, 401	1-226-240-00 220 k (B), adjustable; record bias	1-226-239-00 100 k (B), adjustable; record bias

STEREO CASSETTE-RECEIVER

HST-39

Ned. Ver. v. Historie v/d Radio

ARCHIEF
DOCUMENTATIEDIENST
NVHR

AEP Model
E Model

No. 1
Jan. 1979

SUPPLEMENT

Subject: Printed Circuit Board Modification

This supplement updates the service manual to include the production changes of the main circuit board and the power amp circuit board.
File this supplement with the service manual.

SONY®
SERVICE MANUAL

1/4 WATT CARBON RESISTORS Ⓐ

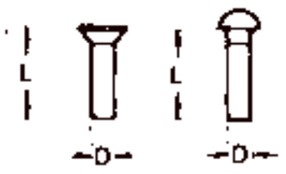
Note: Circled letter Ⓐ is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:

– P 3 x 10
- *L: Length in mm*
- *D: Diameter in mm*
- *Type of head*
- *Indicated slotted-head only. Unless otherwise indicated, it means cross-recessed head (Phillips type).*



Nut, Washer, Retaining ring:

N 3
- *Diameter of usable screw or shaft*
- *Reference designation*

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
AK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

ACCESSORIES & PACKING MATERIALS

Part No.	*Description*
X-3701-105-0	Tips Ass'y, head cleaning (E model)
1-501-161-00	Ⓕ Antenna, feeder
1-534-492-00	Ⓒ Cord, antenna
3-701-630-00	Ⓐ Bag, plastic
3-770-626-51	Ⓒ Manual, instruction
4-858-078-00	Ⓑ Sheet, protection
4-858-084-00	Ⓑ Cushion, upper
4-858-085-00	Ⓑ Cushion, lower; left
4-858-086-00	Ⓑ Cushion, lower; right
4-858-087-00	Ⓔ Carton
4-859-912-00	Ⓐ Bag, plastic

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*		
C513	1-108-385-00	Ⓐ 0.047	100 V	mylar
C514	1-101-006-00	Ⓐ 0.047		
C515	1-108-385-00	Ⓐ 0.047	100 V	mylar
C516, 616	1-101-884-00	Ⓐ 56 p		
C517, 617	1-102-116-00	Ⓐ 680 p		
C901, 902	1-121-388-00	Ⓒ 1000	35 V	elect
C903	1-121-733-00	Ⓑ 470	25 V	elect
C904	1-108-385-00	Ⓐ 0.047	100 V	mylar
C905	1-121-261-00	Ⓑ 220	35 V	elect
C906	1-101-005-00	Ⓐ 0.022		
C907	1-121-417-00	Ⓑ 100	25 V	elect
C908	1-108-383-00	Ⓐ 0.033	100 V	mylar
CT1, 2 CV1–4	1-151-345-00	Ⓖ Tuning		
CT51–56	1-141-138-XX	Ⓐ Trimmer		

RESISTORS

- All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.

R110	**⚠1-212-875-00**	**Ⓐ 56**	**¼W**	**fusible**
R211	**⚠1-213-084-00**	**Ⓐ 100**	**1W**	**fusible**
R326	**⚠1-213-096-00**	**Ⓐ 330**	**1W**	**fusible**
R513, 613	**⚠1-212-958-00**	**Ⓐ 10**	**½W**	**fusible**
R514, 614	1-244-861-00	Ⓐ 330	½W	carbon
R901	**⚠1-212-958-00**	**Ⓐ 10**	**½W**	**fusible**
R905	**⚠1-212-934-00**	**Ⓐ 1**	**½W**	**fusible (AEP model)**
RV206	1-226-235-00	Ⓐ 4.7 k (B), adjustable; 19 kHz		
RV301, 401	1-226-240-00	Ⓐ 220 k (B), adjustable; record bias		
RV501, 601	1-226-316-00	Ⓒ 250 k/250 k (B), variable; VOLUME		
RV502	1-226-367-00	Ⓑ 250 k (W), variable; BALANCE		
RV503, 504 RV603, 604	1-226-323-00	Ⓒ 100 k/100 k (B), variable; BASS, TREBLE		

Ref. No.	*Part No.*	*Description*
		SWITCHES
S4	**1-552-596-00**	**Ⓔ Rotary-slide, FUNCTION (1)**
S5	**1-516-927-00**	**Ⓑ Pushbutton, LW ANTENNA SELECTOR (AEP model)**
S301	1-552-594-00	Ⓒ Slide, HNR
S302	1-552-548-00	Ⓒ Slide, FUNCTION (2)
S303	1-552-551-00	Ⓒ Slide, FUNCTION (3)
S304	1-552-593-00	Ⓒ Slide, TAPE SELECT
S305	1-552-595-00	Ⓒ Slide, record/playback
S306	1-516-870-00	Ⓑ Slide, ISS
S901	**⚠1-552-531-00**	**Ⓒ Pushbutton, POWER**
S902	**⚠1-552-535-00**	**VOLTAGE SELECTOR (E model)**
S903	1-516-944-00	Ⓑ Leaf, motor
		JACKS
J301, 401	1-507-605-00	Ⓑ MIC
J302–304	1-507-500-00	Ⓑ REC OUT, AUX, PHONO
J501	1-507-606-00	Ⓒ HEADPHONES
J502	1-507-500-00	Ⓑ Phono, SPEAKERS
		MISCELLANEOUS
BPF	1-231-313-00	Ⓑ Bandpass Filter
CF101	1-517-248-XX	Ⓗ 10.7 MHz Ceramic Filter
F1	**⚠1-532-284-00**	**Ⓑ Fuse, T630 mA (AEP model)**
HE301	8-825-634-00	Ⓒ Head, erase; EF135-136C
HRP301,401	1-543-132-00	Ⓘ Head, record/playback
J1	1-536-560-00	Ⓑ Terminal Strip, ANTENNA
M	1-541-133-00	Ⓙ Motor
ME1	1-520-341-21	Ⓕ Meter, SIGNAL
PL1, 2	1-518-323-00	Ⓑ Lamp, pilot 13 V 200 mA; dial
	⚠1-551-530-00	**Cord, power; euro-plug (E model)**
	⚠1-551-188-41	**Cord, power; parallel-blade plug (E model)**
	⚠1-534-817-XX	**Ⓓ Cord, power (AEP model)**
	⚠1-533-131-00	**Ⓐ Holder, fuse (AEP model)**

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

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