

TC-D5M

US Model
AEP Model



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

STEREO CASSETTE-CORDER

SPECIFICATIONS

Tape track 4-track 2-channel stereo
Fast winding time Approx. 150 sec. with Sony C-60 Cassette
Bias frequency 85kHz
Signal-to-noise ratio DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
58dB at peak level
- With TYPE III cassette (Sony DUAD)
59dB at peak level
- With TYPE II cassette (Sony JHF)
56dB at peak level
- With TYPE I cassette (Sony BHF)
53dB at peak level

DOLBY NR ON
Improved by 5dB at 1kHz, 10dB above
5kHz

Total harmonic distortion 1.0% (with Sony METALLIC or DUAD)

Frequency response DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
20-19,000Hz
30-17,000Hz (± 3 dB)
30-13,000Hz (± 3 dB, 0 VU recording)
- With TYPE III cassette (Sony DUAD)
20-19,000Hz
30-17,000Hz (± 3 dB)
- With TYPE II cassette (Sony JHF)
20-18,000Hz
30-15,000Hz (± 3 dB)
- With TYPE I cassette (Sony BHF)
20-17,000Hz
30-14,000Hz (± 3 dB)

Wow and flutter 0.06% (WRMS)

Inputs

Microphone inputs (phone jacks)
sensitivity 0.25mV (-70 dB)
for a low-impedance microphone

Line inputs (phono jacks)
sensitivity 77.5mV (-20 dB)
input impedance more than 47 kilohms

Outputs

Line outputs (phono jacks)
output level 0.435V (-5 dB)
at load impedance 47 kilohms
suitable load impedance more than
10 kilohms

Headphone output
max. power output 20mW
(at load impedance 8ohms)

Speaker
Power output

Approx. 5cm
200mW (EIAJ/DC)

— Continued on page 2 —

0dB = 0.775V

SONY
SERVICE MANUAL

General

Power requirements 3 V dc, two UM-1 batteries
(IEC designation R20)
100 V ac, 50/60 Hz with Sony AC-61
AC Power Adaptor (optional)
12 V car battery with Sony DCC-127A Car
Battery Cord (optional)

Power consumption 12 VA (50 Hz), 11 VA (60 Hz) with Sony
AC-61 AC Power Adaptor

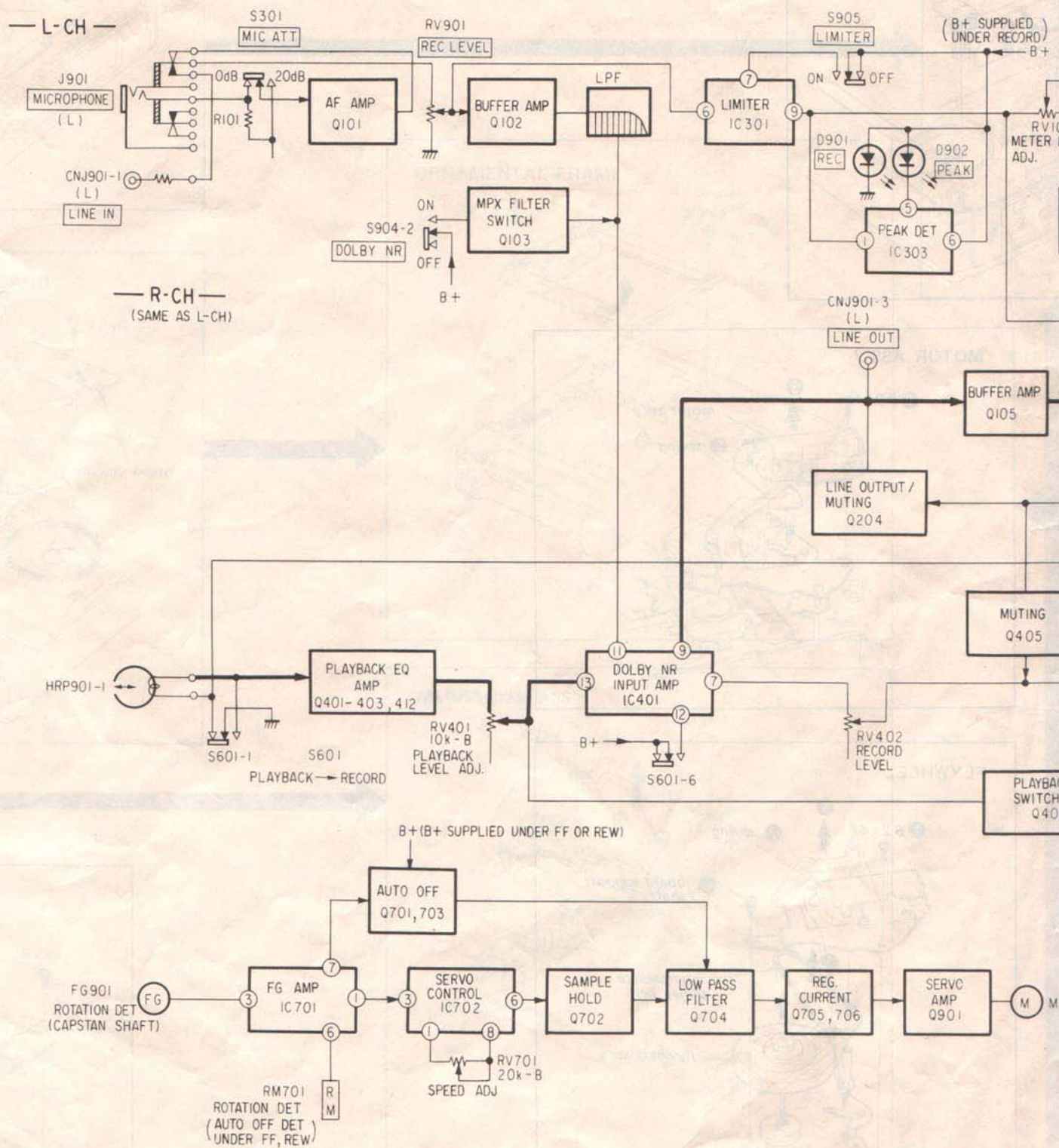
Battery life (EIAJ) Approx. 2 hours using Sony SUM-1S
Super Batteries
Approx. 1.5 hours with metal tape using
SUM-1S
Approx. 5.5 hours using Sony Eveready
AM1 Alkaline Batteries
Approx. 4 hours with metal tape using
AM1

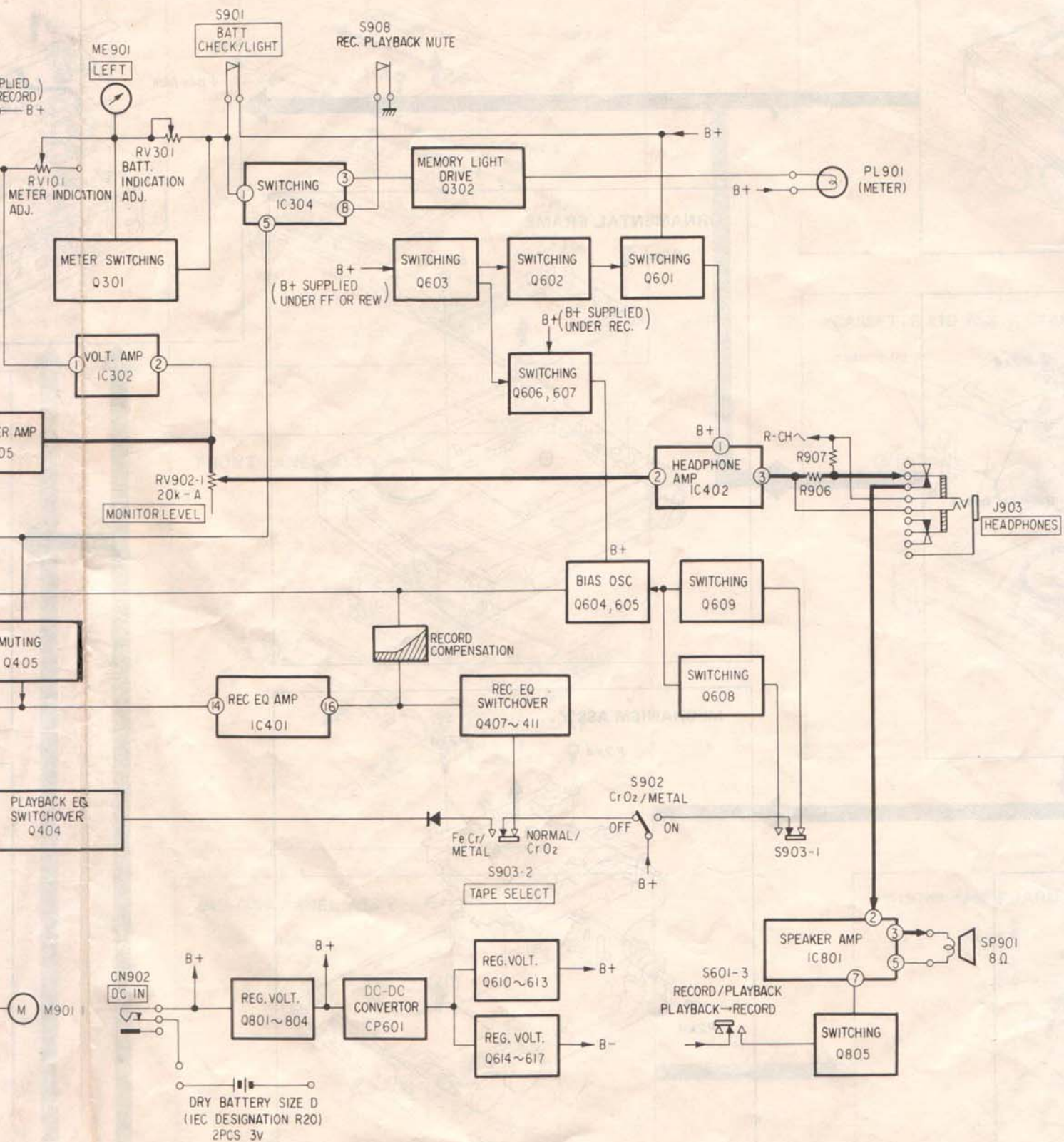
Dimensions 237×48×168 mm (w/h/d)
including projecting parts and controls

Weight 1.7 kg (incl. batteries)

SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM





Use the charts together with the exploded views (Page 22 to 28).

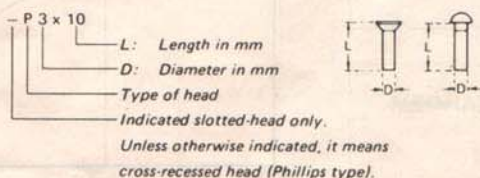
DIMENSIONS AND PART NO. OF PRECISION SCREWS

Type	⊕ P (Pan-head screw)			⊕ K (Flat-countersunk-head screw)		
Type 1	d mm	H mm	D mm	d mm	H mm	D mm
	1.4	0.5	2	1.4	0.45	2

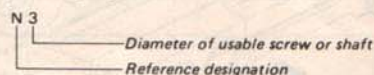
Type	Size (mm) (d x L)	Part No.
Type 1	P2 x 2	7-627-553-17
	P2 x 2.5	7-627-553-27
	P2 x 3	7-627-553-37
	P2 x 3.5	7-627-554-17
	P2 x 4	7-627-553-47
	P2 x 4.5	7-627-553-58
	P2 x 6	7-627-553-68
	P2 x 8	7-627-553-98
	K2 x 2	7-627-452-07
	K2 x 3	7-627-452-18

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



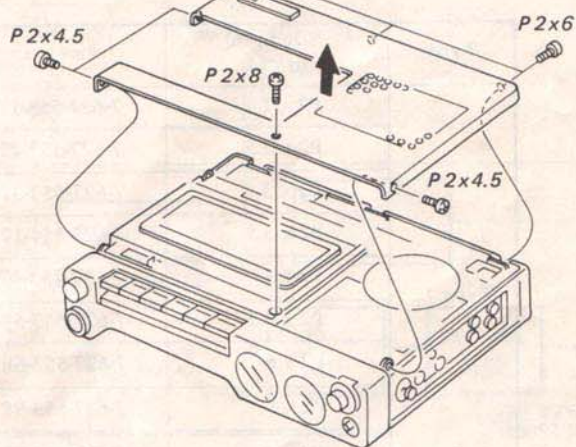
Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
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	
RK		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		brazer-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	

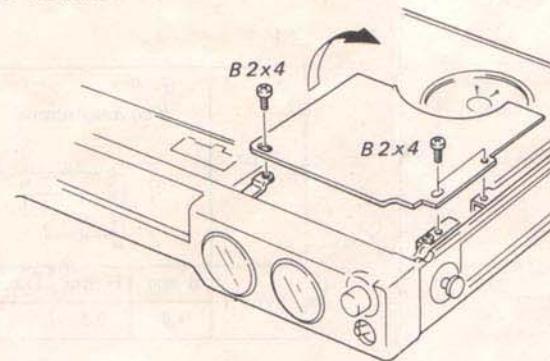
SECTION 2 DISASSEMBLY

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

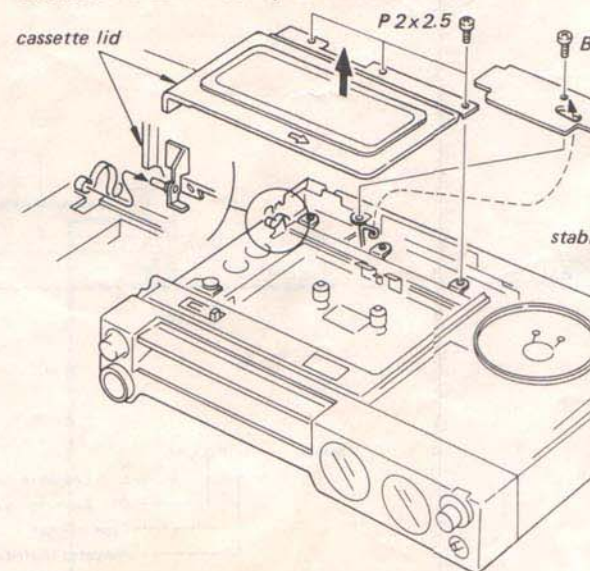
UPPER PANEL



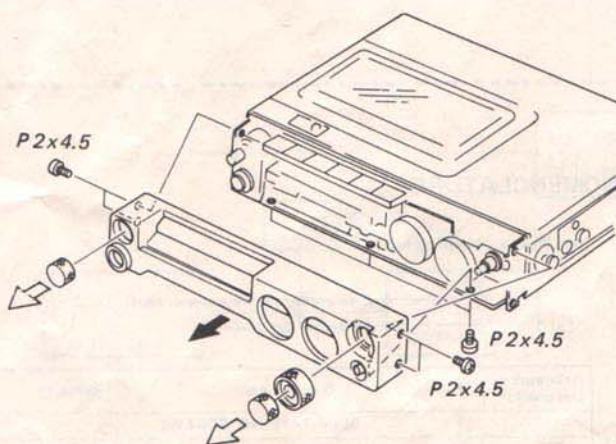
REC BOARD



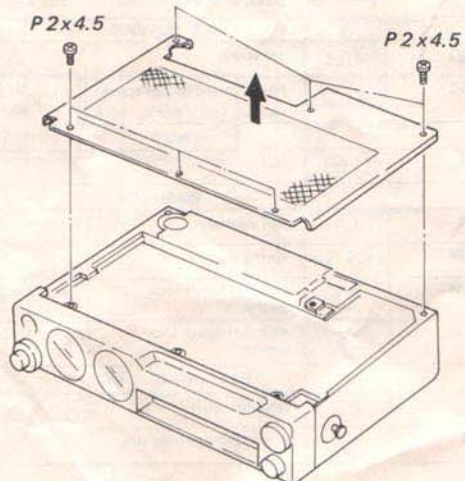
CASSETTE LID ASS'Y, STABILIZER BOARD



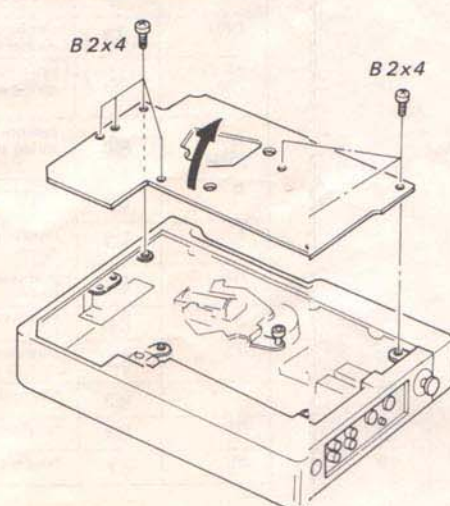
FRONT PANEL ASS'Y



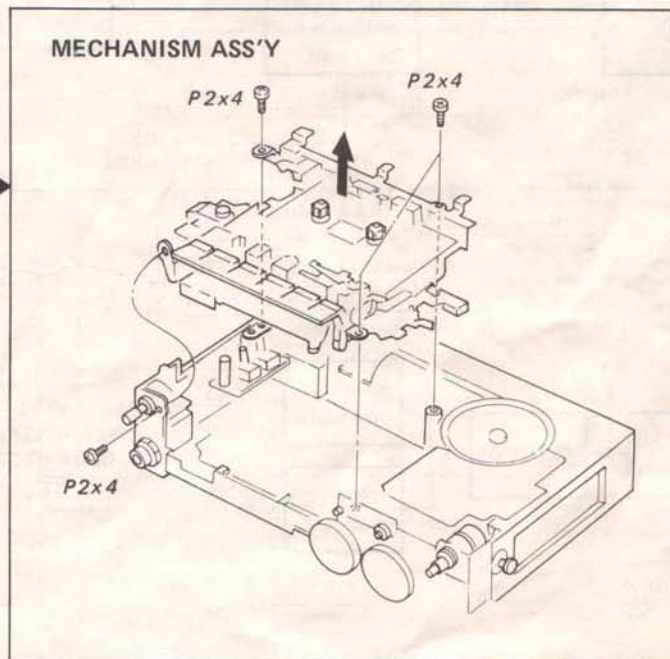
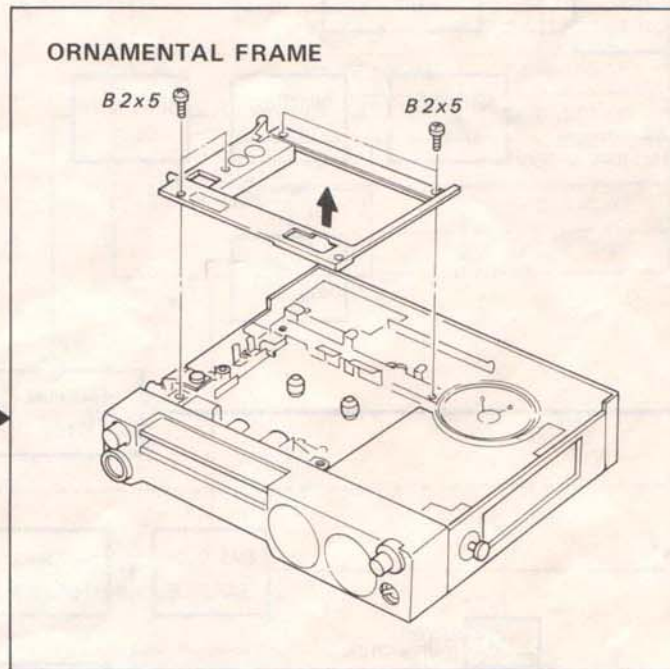
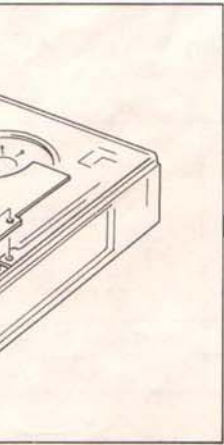
BOTTOM PANEL ASS'Y



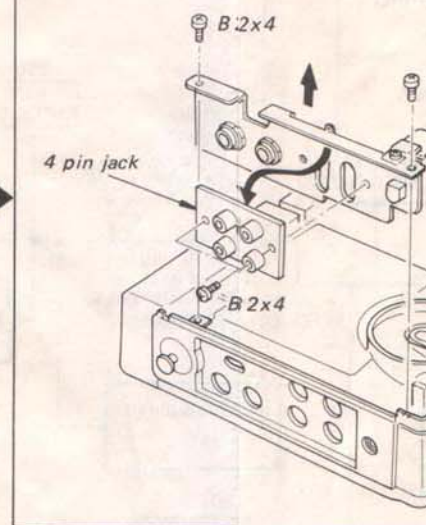
AUDIO AMP BOARD



given.

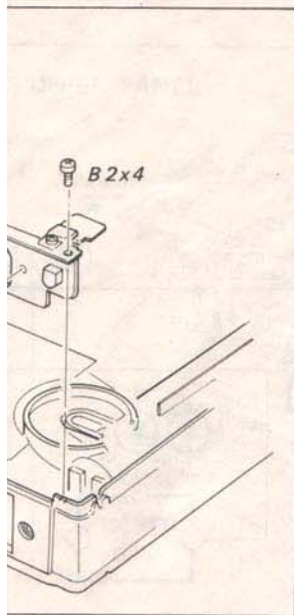


4 PIN JACK

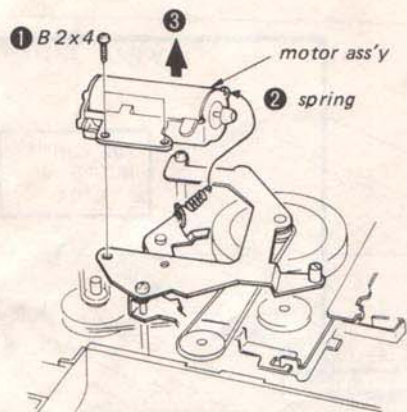


MOT

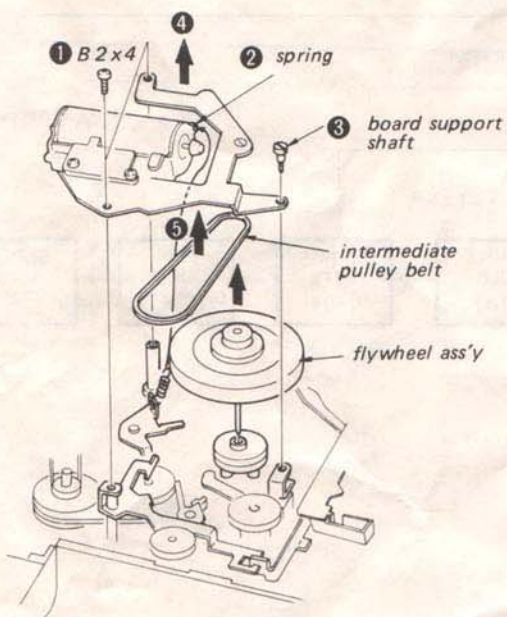
FLY



MOTOR ASS'Y



FLYWHEEL

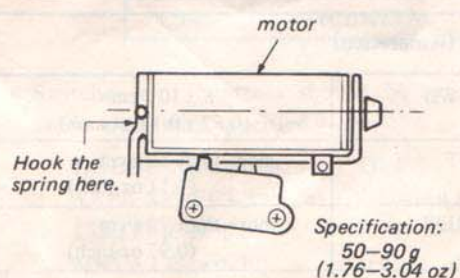


SECTION 3 ADJUSTMENTS

3-1. Mechanical Adjustments

Motor Pressure Measurement

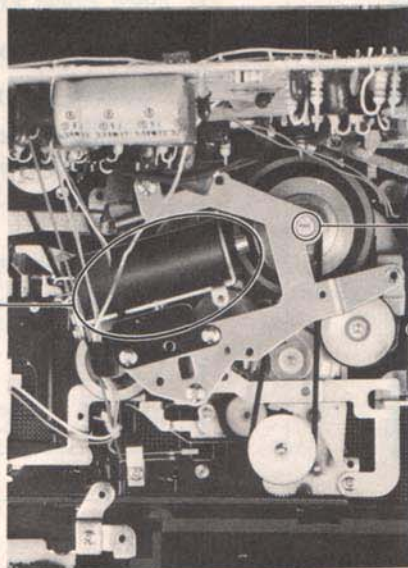
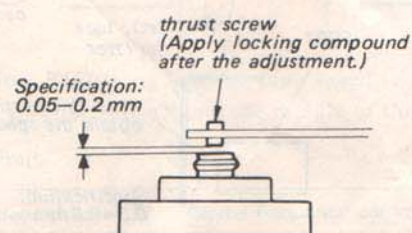
Erect the set in a perpendicular condition and push the forward (FWD) button. Pull the spring scale hooked in the position shown below. Slowly touch the flywheel with the motor pulley and read the spring scale just when the flywheel starts rotating.



Flywheel Thrust Play Adjustment

Slowly tighten the thrust screw with a screwdriver. Then loosen the thrust screw and adjust the screw position $\frac{1}{5}$ – $\frac{3}{5}$ turn from the point where the thrust screw touches the capstan shaft. There should be no play.

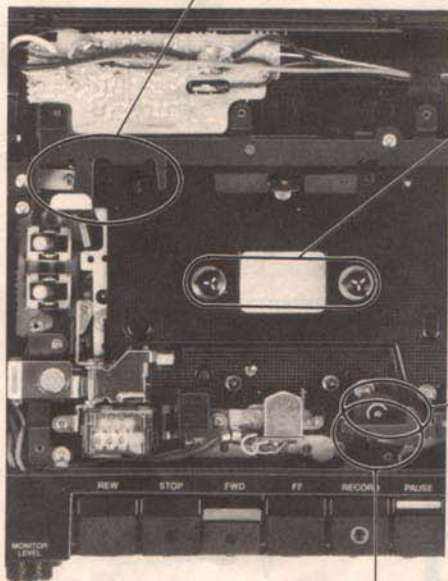
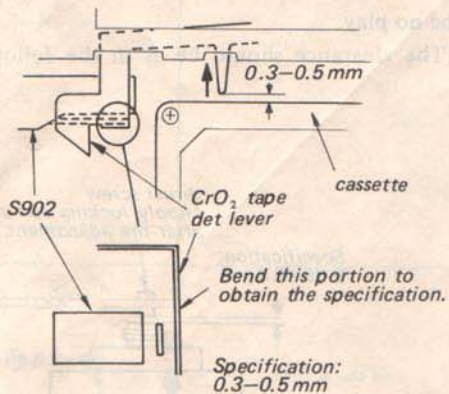
(The clearance should be as in the following figure.).



CrO₂ Tape Det Lever Adjustment

Install a cassette tape (besides CrO₂) and push the CrO₂ tape det lever in the direction of the arrow. Confirm that the clearance between the CrO₂ tape det lever and the cassette is 0.3 mm–0.5 mm.

Return the CrO₂ tape det lever in the original position and confirm that S902 is OFF. (Be sure that the miniature switch lever is pushed.)



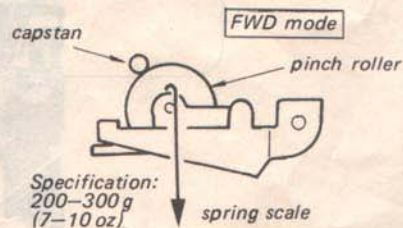
Torques (Reference)

FWD	38 ± 10 g·cm (0.52 ± 0.13 oz·inch)
FF	more than 80 g·cm (1.11 oz·inch)
REW	more than 70 g·cm (0.97 oz·inch)
back tension	less than 5 g·cm (0.069 oz·inch)

Pinch Roller Pressure Measurement

— Playback Mode —

1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating.



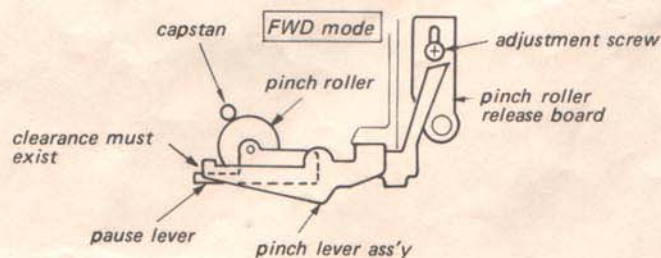
Pause Timing Adjustment

Under locked condition:

Confirm that the take-up reel spindle stops rotating without the tape being in CUE mode after the pinch roller leaves the capstan.

Under released condition:

Confirm that the pinch roller touches the capstan after the take-up reel spindle starts rotating.



3-2. ELECTRICAL ADJUSTMENTS

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.

- Set the TAPE SELECT switch according to the tape as follows.

Tape	TAPE SELECT
CS-10	NORMAL/CrO ₂
CS-25	NORMAL/CrO ₂
CS-30	FeCr/METAL
CS-40	FeCr/METAL

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

DOLBY NR switch: OFF
 TAPE SELECT switch: NORMAL/CrO₂
 LIMITER switch: OFF
 MIC ATT switch: 0 dB

- 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.

Standard Input Level

	MIC	LINE IN
source impedance	300 Ω	47 k Ω
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

Standard Output Level

	LINE OUT (FIXED)	HEAD- PHONES
load impedance	47 k Ω	8 Ω
output level	0.44 V (-5 dB)	0.39 V (-6 dB)

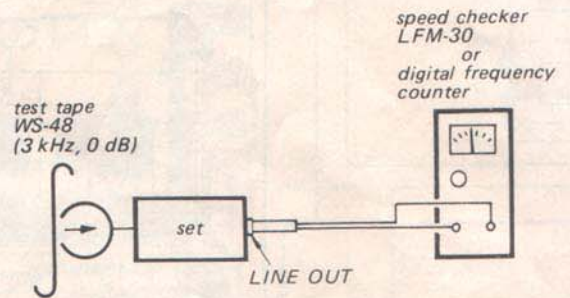
Tape Speed Adjustment

Setting:

MONITOR LEVEL : mechanical mid

Procedure:

Mode: playback



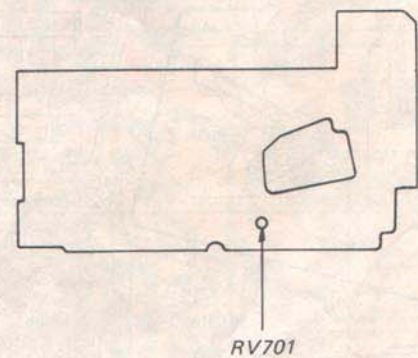
Adjust RV701 so that the tape speed is within the specification around the middle of the tape.

Specification:

Speed checker	Digital frequency counter
-1.0-+1.0%	2,970-3,030 Hz

Adjustment Location:

- audio amp board -
(conductor side)



Record/playback Head Azimuth Adjustment

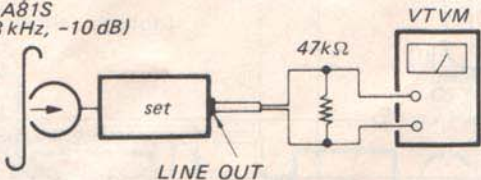
Setting:

MONITOR LEVEL : mechanical mid

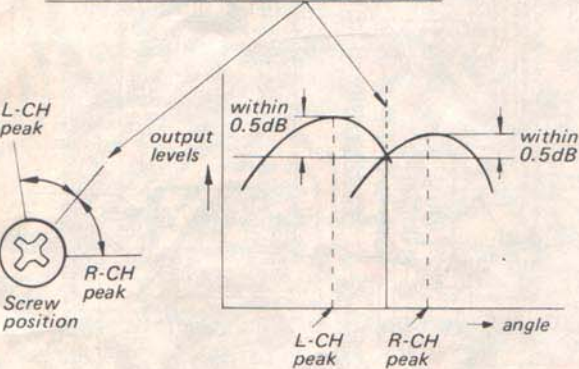
Procedure:

- 1. Mode: Playback

test tape
P-4-A81S
(6.3 kHz, -10 dB)

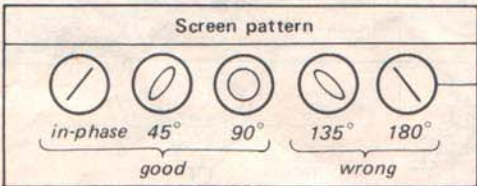
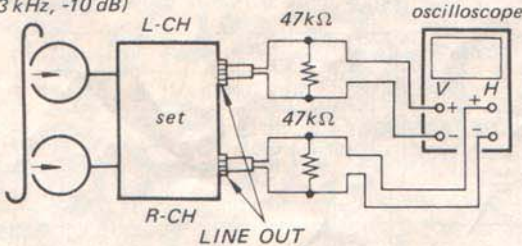


- 2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.



- 3. Phase Check
Mode: playback

test tape
P-4-A81S
(6.3 kHz, -10 dB)

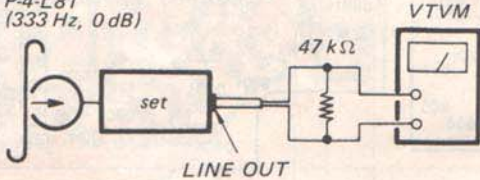


Playback Level Adjustment

Procedure:

- 1. Mode: Playback

test tape
P-4-L81
(333 Hz, 0 dB)



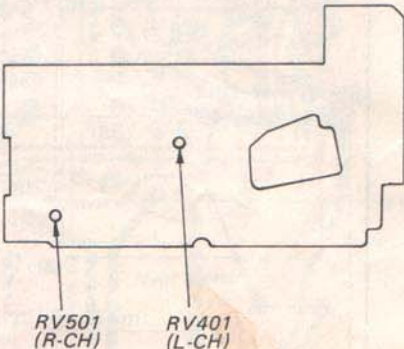
- 2. Adjust RV401 (L-CH) and RV501 (R-CH) so that the LINE OUT level is within the specification.

Specification:

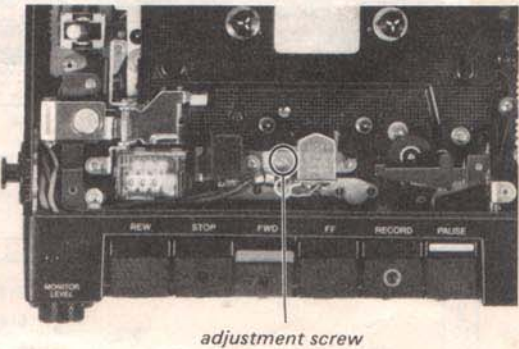
0.55 V (-3 dB)

Adjustment Location:

- audio amp board -
(conductor side)



Adjustment Location:



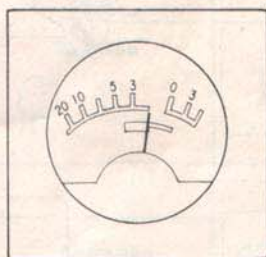
adjustment screw

Battery Indicator Calibration Adjustment

Procedure:

Power: 2.2V dc
Mode: playback
(No cassette tape installed.)

Adjust RV301 so that the pointer of the level meter is positioned as shown below when BATT CHECK/LIGHT button is pushed.



level meter

Adjustment Location:

— record board —



RV301

Record Bias Adjustment

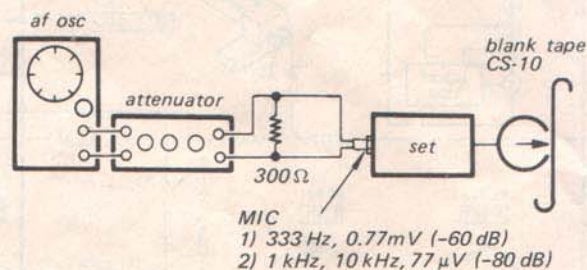
Setting:

TAPE SELECT switch: NORMAL/CrO₂
LIMITER switch: OFF

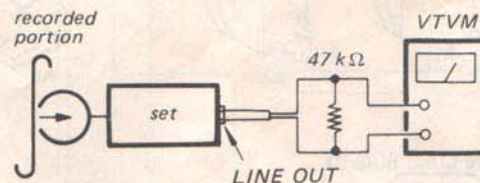
Record 333Hz signal and adjust the REC LEVEL control to obtain -5 dB LINE OUT level.

Procedure:

1. Mode: record



2. Mode: playback



3. Playback 1 kHz, 10 kHz and adjust by changing the pattern to obtain the specified LINE OUT level. (When the specified value cannot be obtained by bridging only one pattern, then bridge another pattern.)

When the 10 kHz output is high
→ increase the capacitance

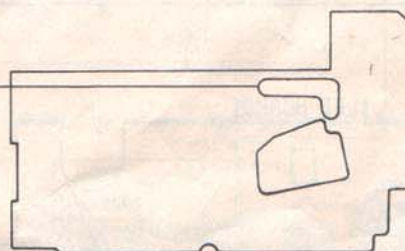
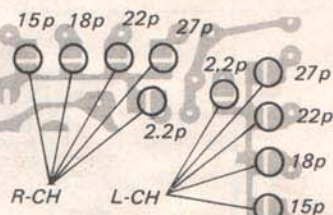
When the 10 kHz output is low
→ decrease the capacitance

Specification:

Within 10 kHz level difference ± 0.5 dB relative to 1 kHz.

Adjustment Location:

— audio amp board —
(Conductor Side)



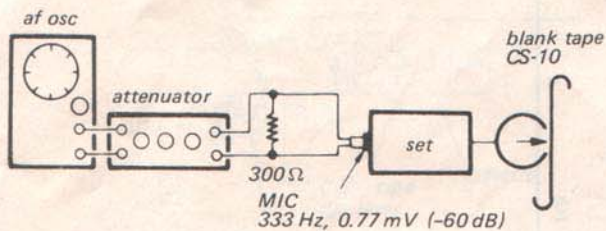
Record Level Adjustment

Setting:

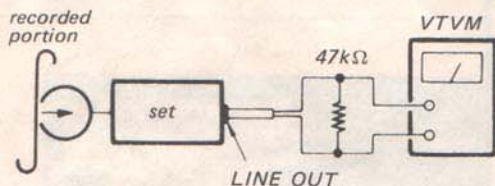
MIC ATT switch: 0 dB
 LIMITER switch: OFF
 TAPE SELECT switch: NORMAL/CrO₂
 REC LEVEL control: standard record
 (See page 11.)

Procedure:

1. Mode: record



2. Record -60 dB (0.77 mV), 333 Hz signal in a blank tape (CS-10).
3. Playback the recorded tape in step 2.
4. Mode: playback

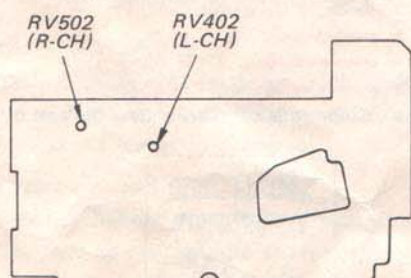


5. Repeat steps 2 and 3 and adjust RV402 (L-CH), RV502 (R-CH) so that the LINE OUT level is -5 dB.
6. Repeat steps 1 to 4 also for CS-25 and obtain the specified value.
7. Install CS-30 and set the TAPE SELECT switch to FeCr/METAL. Then adjust as in step 6.
8. Install CS-40 and adjust as in step 6.

Tape	Specification	TAPE SELECT
CS-10	-5 dB $\pm$ 0.5 dB	NORMAL/CrO ₂
CS-25	-5 dB $\pm$ 2 dB	NORMAL/CrO ₂
CS-30	-5 dB $\pm$ 2 dB	FeCr/METAL
CS-40	-5 dB $\pm$ 2 dB	FeCr/METAL

Adjustment Location:

— audio amp board —



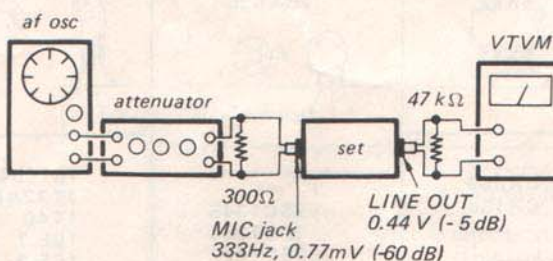
Meter Level Adjustment

Setting:

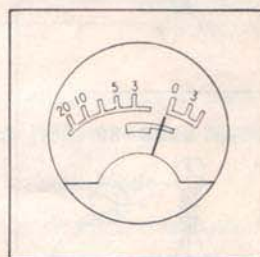
MIC ATT switch: 0 dB
 LIMITER switch: OFF
 REC LEVEL control: standard record
 (See page 11.)

Procedure:

1. Mode: record



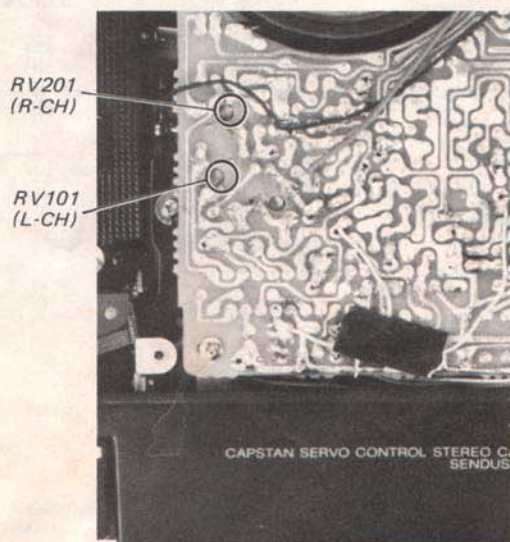
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that the pointer of the level meter points 0dB as shown below.



level meter

Adjustment Location:

— record board —

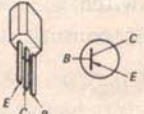
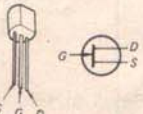
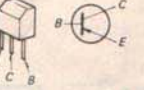
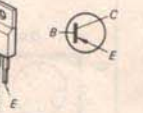
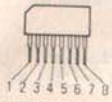
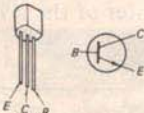
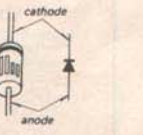
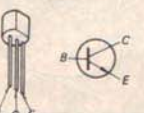
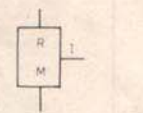
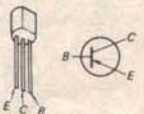
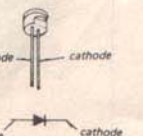
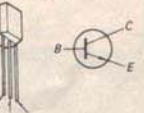
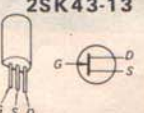


SECTION 4 DIAGRAMS

A

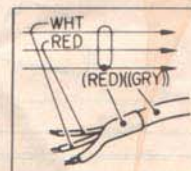
B

4-1. MOUNTING DIAGRAM

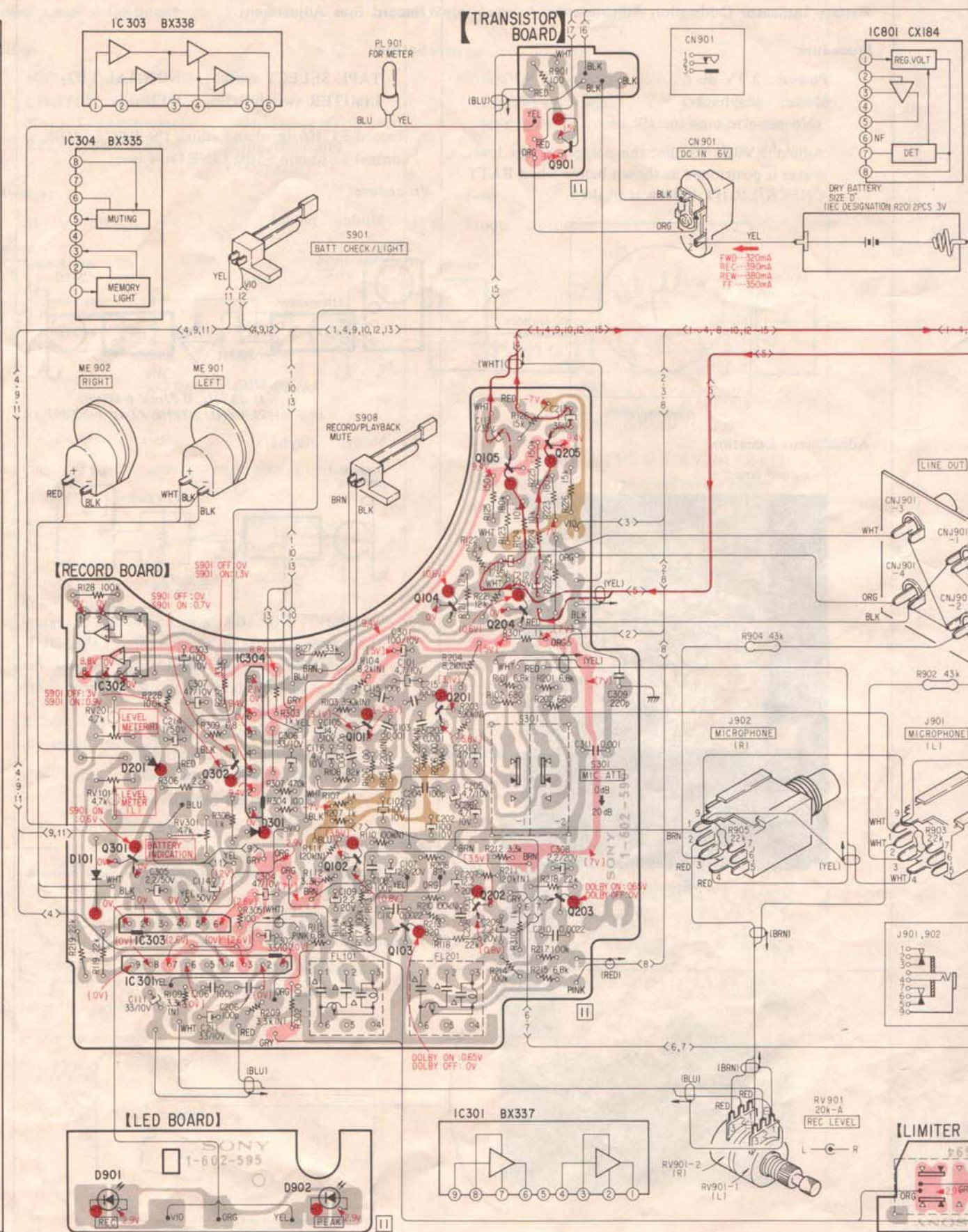
CX174 16 15 14 13 12 11 10 9 1 2 3 4 5 6 7 8 (Top view)	2SA844 2SA1027R 	2SK30A  1
UPC358C 8 7 6 5 1 2 3 4 (Top view)	2SA836 	2SA861 
CX069 CX184 	2SC1345 2SC1364 2SC1474 2SC1634 2SC2001 	1S1555 1T22AM 1T40 10E.1 10E.2 HZ6B2N HZ6B21  2
BX338 	2SD788 	DM-101  3
BX337 	2SA733 2SA739 2SA772-23 2SA952 2SA739 2SB739 	SLP24B  4
BX335 	2SC945 	5
	2SK43-13 	

Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- : B+ pattern
- : B- pattern
- : signal path
- : L-CH signal path
- : R-CH signal path
- : Color code of sleeving over the end of the jacket.



D	Q, IC
	901
	205
	105
	104 204
	IC302
	201
	101
201	IC304
	302
301	
101	301 102
	202 203
	IC303
	103
	IC301
901	
9022	
D	Q, IC

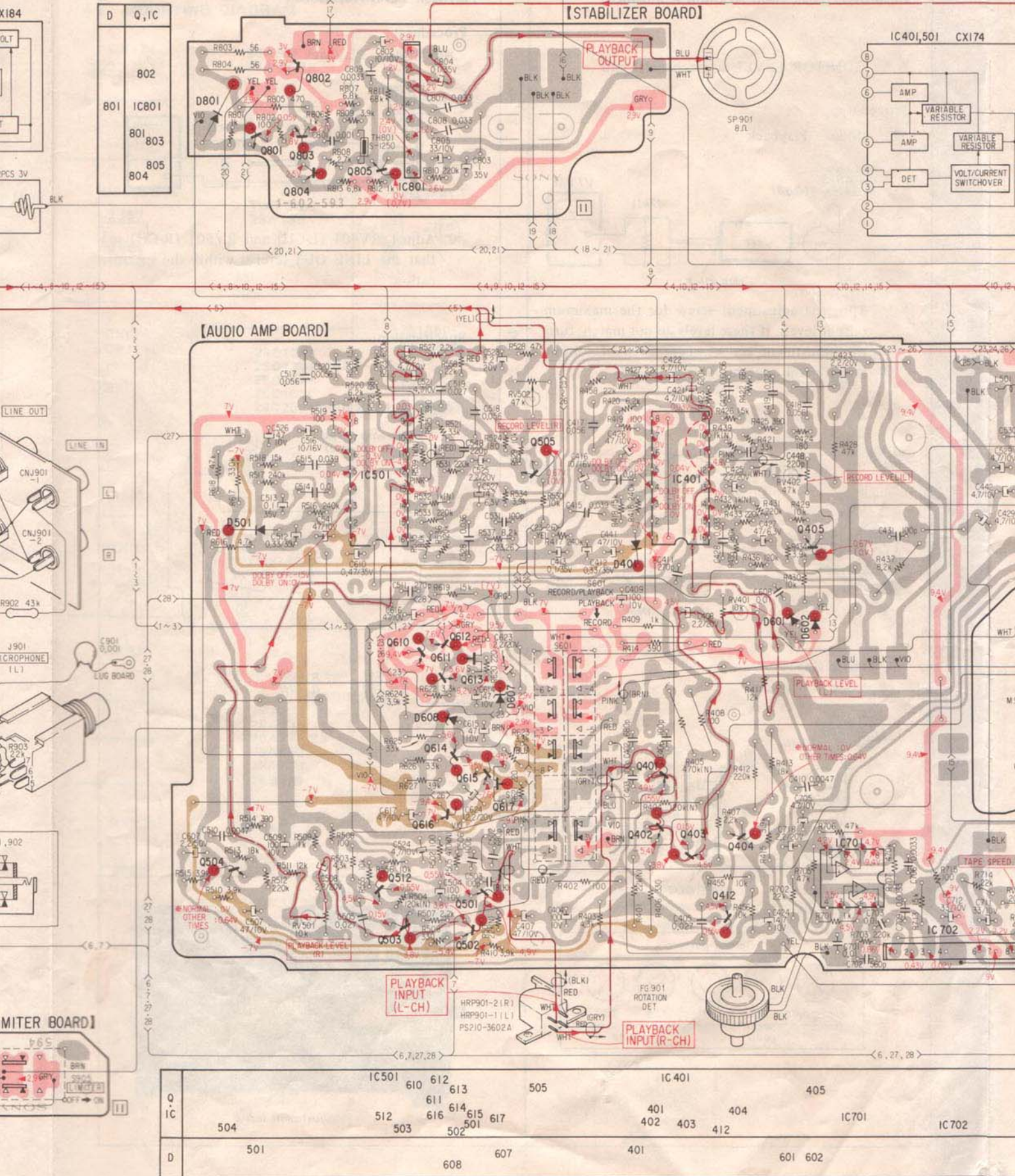


G

H

I

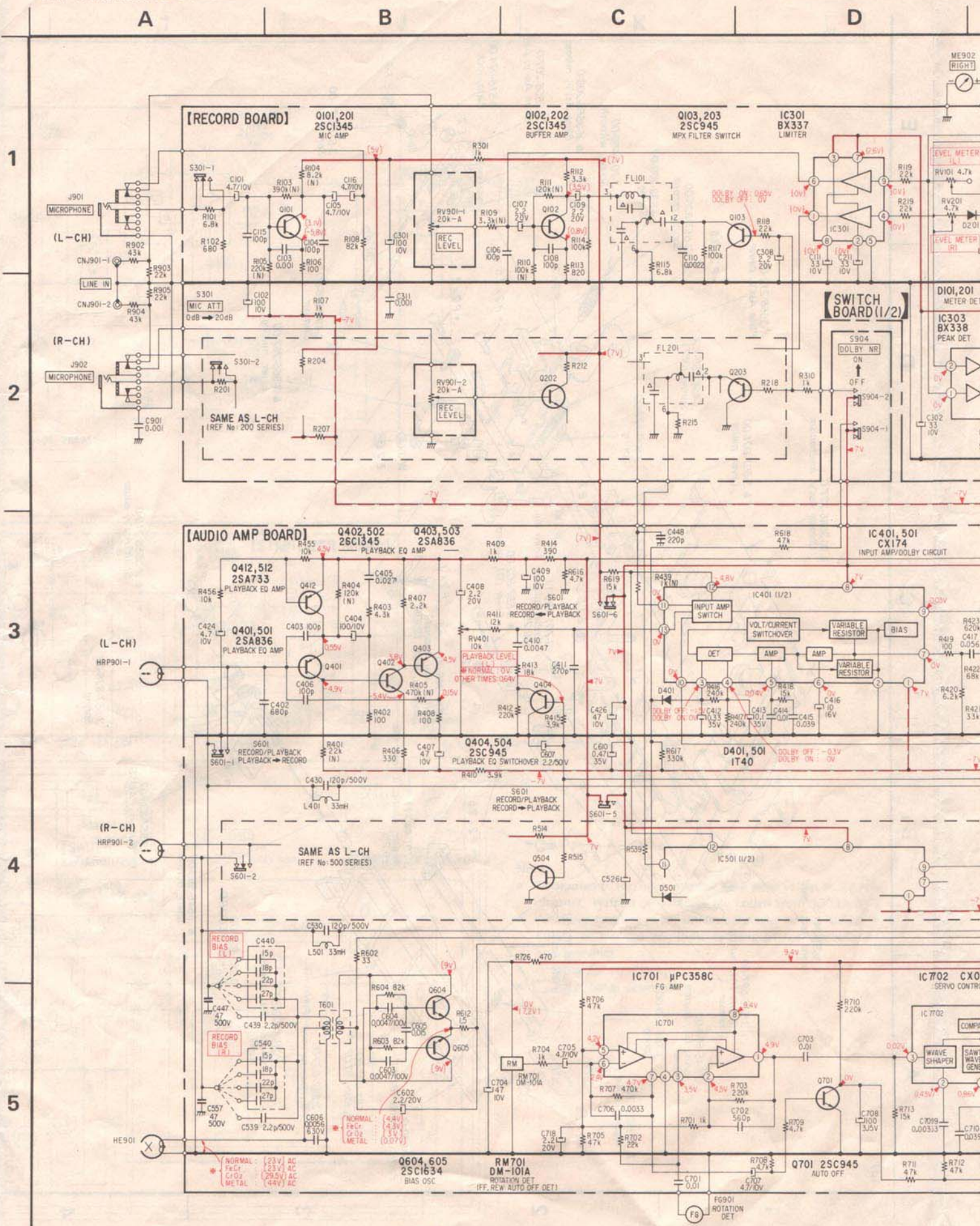
J



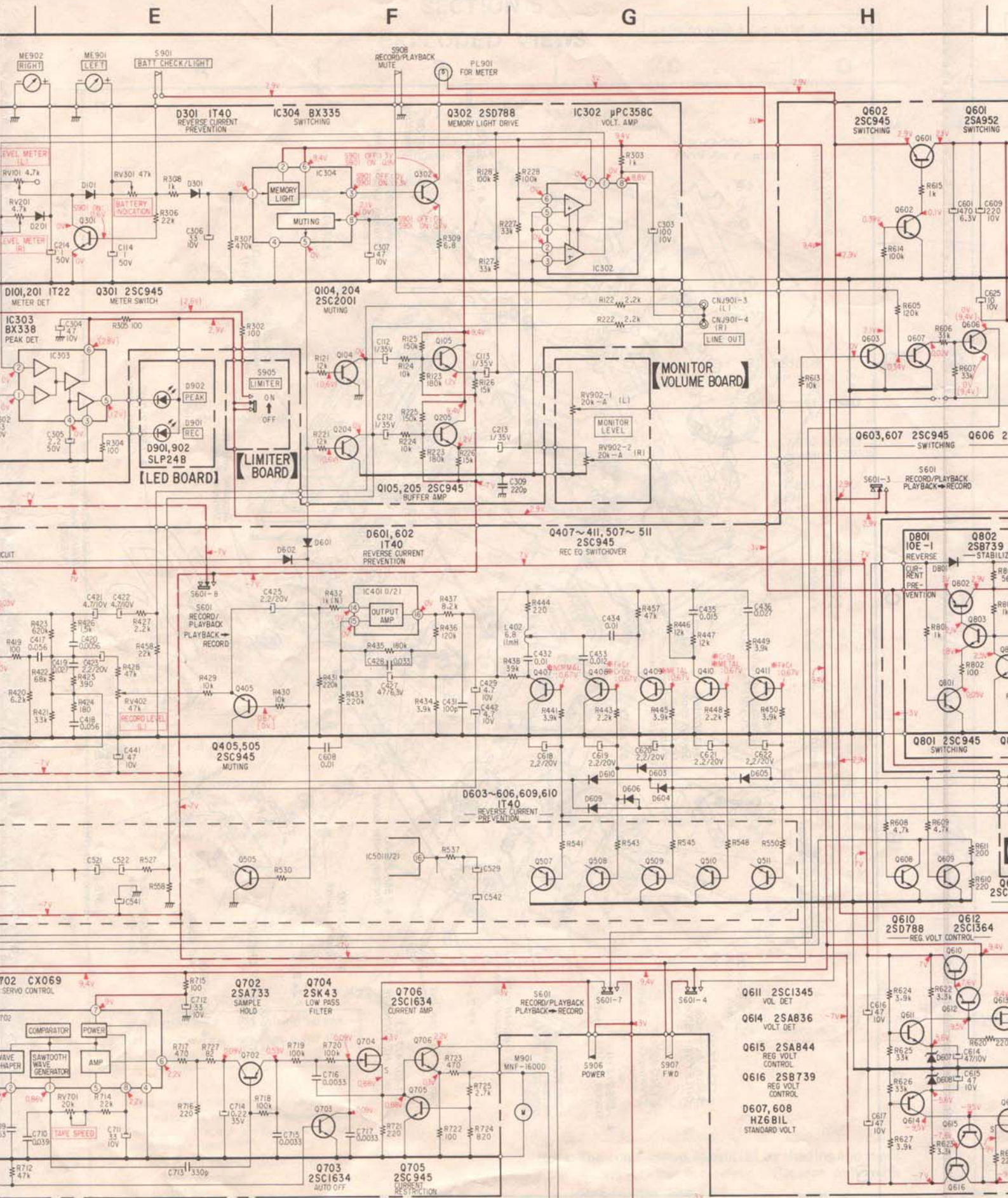


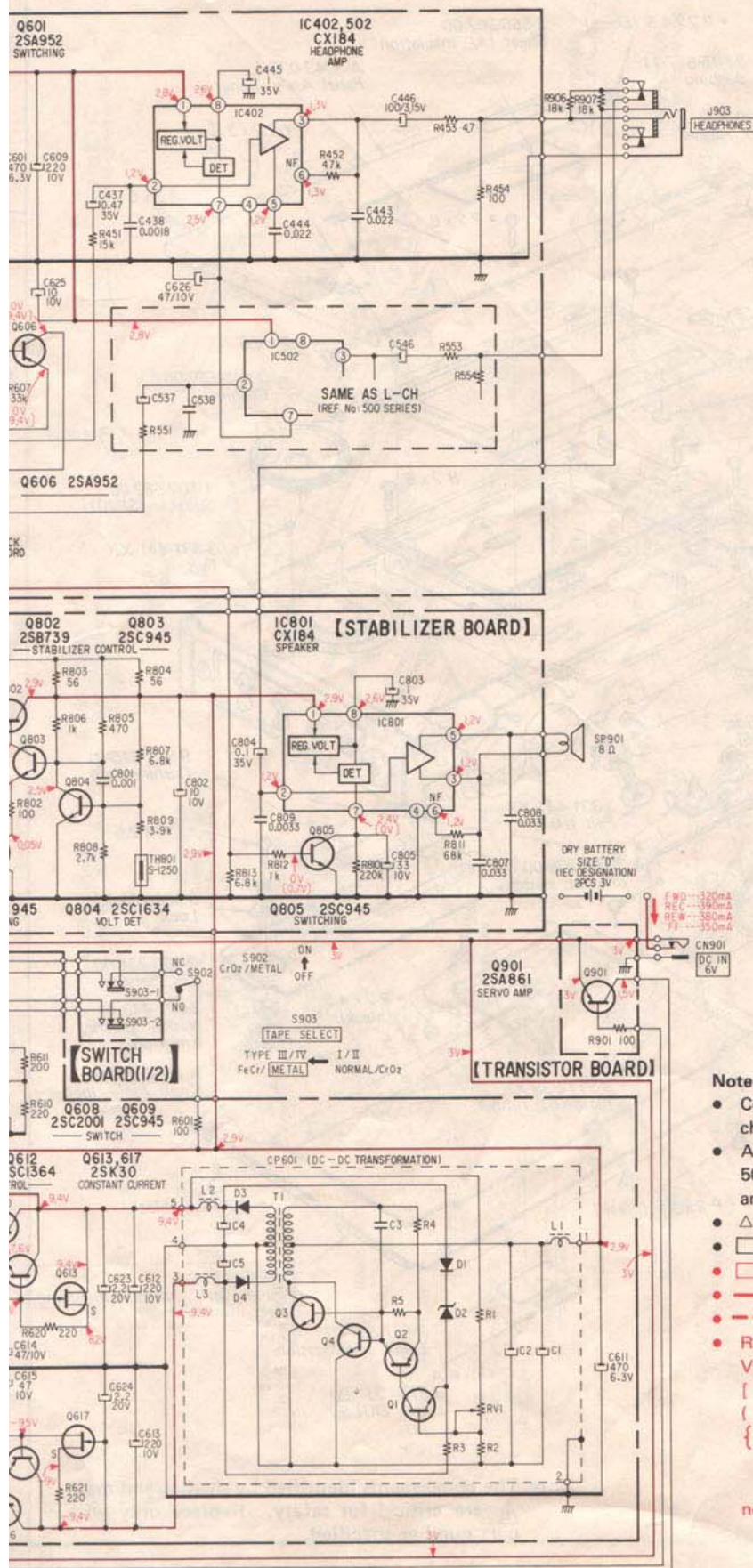
— 18 —

4-2. SCHEMATIC DIAGRAM



TC-D5M



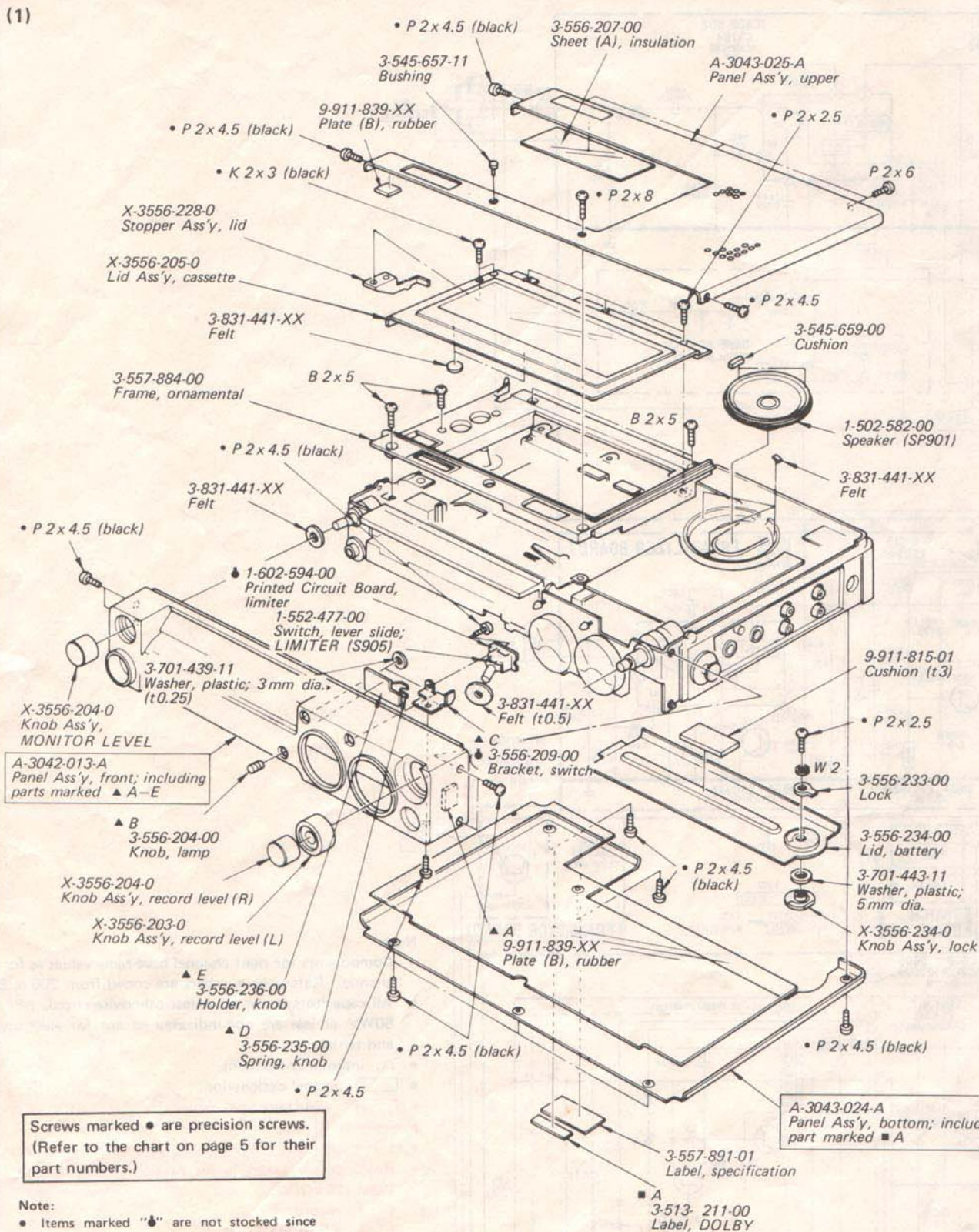
**Note:**

- Components for right channel have same values as for left channel. Reference numbers are coded from 200 or 500.
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalum.
- Δ : internal component.
- $\square$: panel designation.
- $\square$: adjustment for repair.
- --- : B+ bus.
- --- : B- bus.
- Readings are taken under no-signal conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
 []: record
 (): FF or REW
 { }: record/S905 (LIMITER) ON
 * : Value when S902 $\text{CrO}_2/\text{METAL}$, S903 (TAPE SELECT) are selected.
 no mark: playback

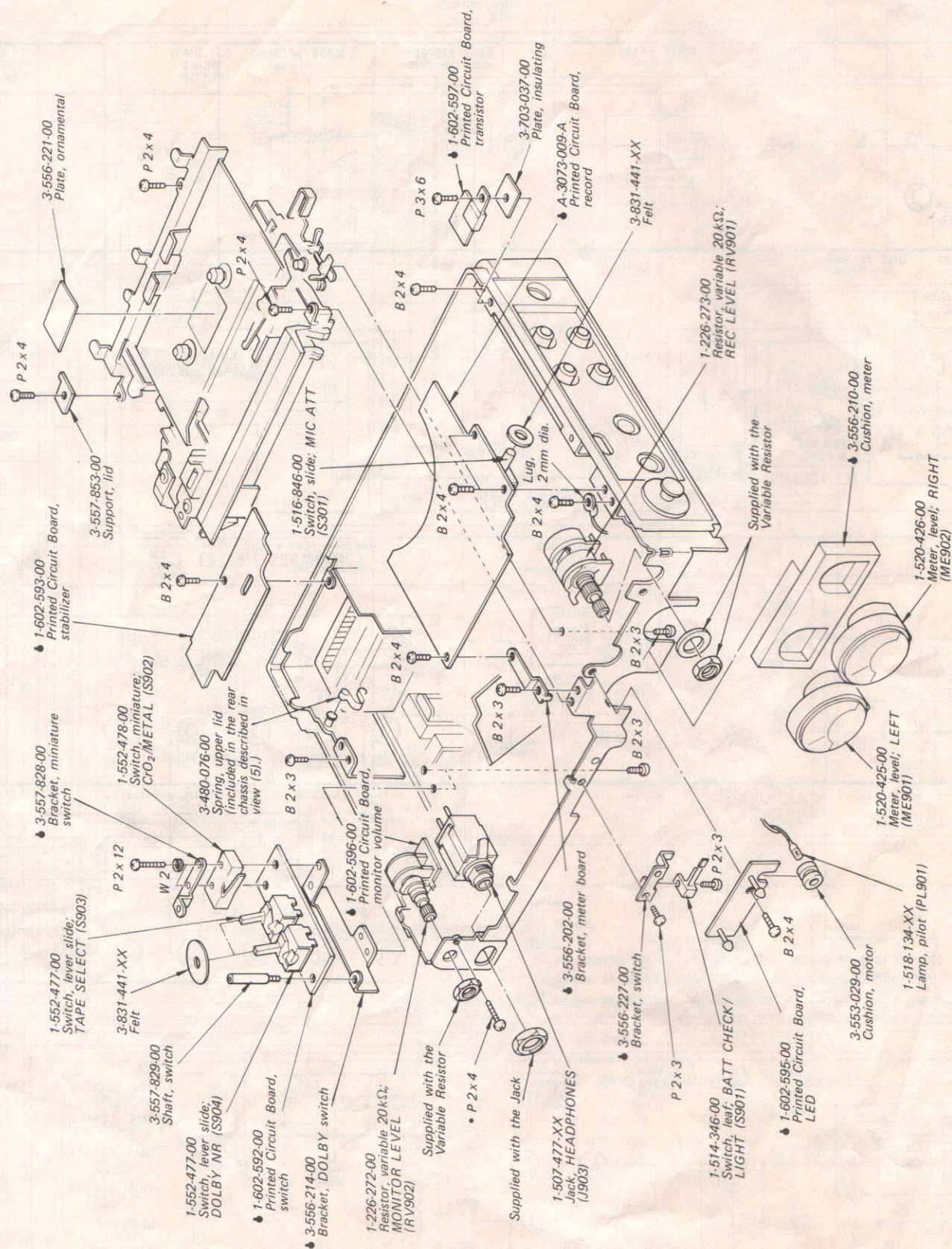
SECTION 5 EXPLODED VIEWS

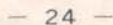
Refer to page 5 for notes on screws.

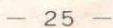
A B C D



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







E

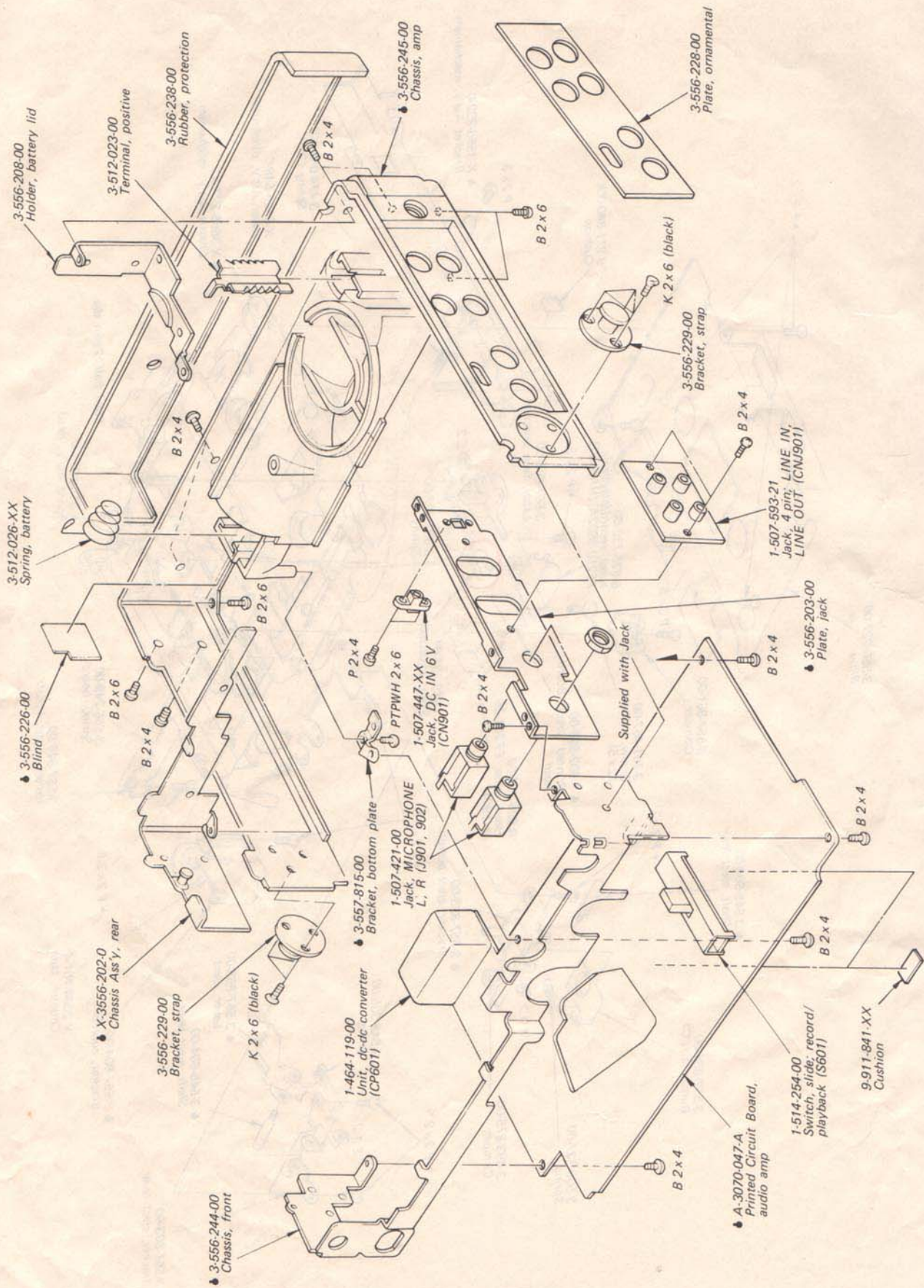
D

C

B

A

(5)



(6)

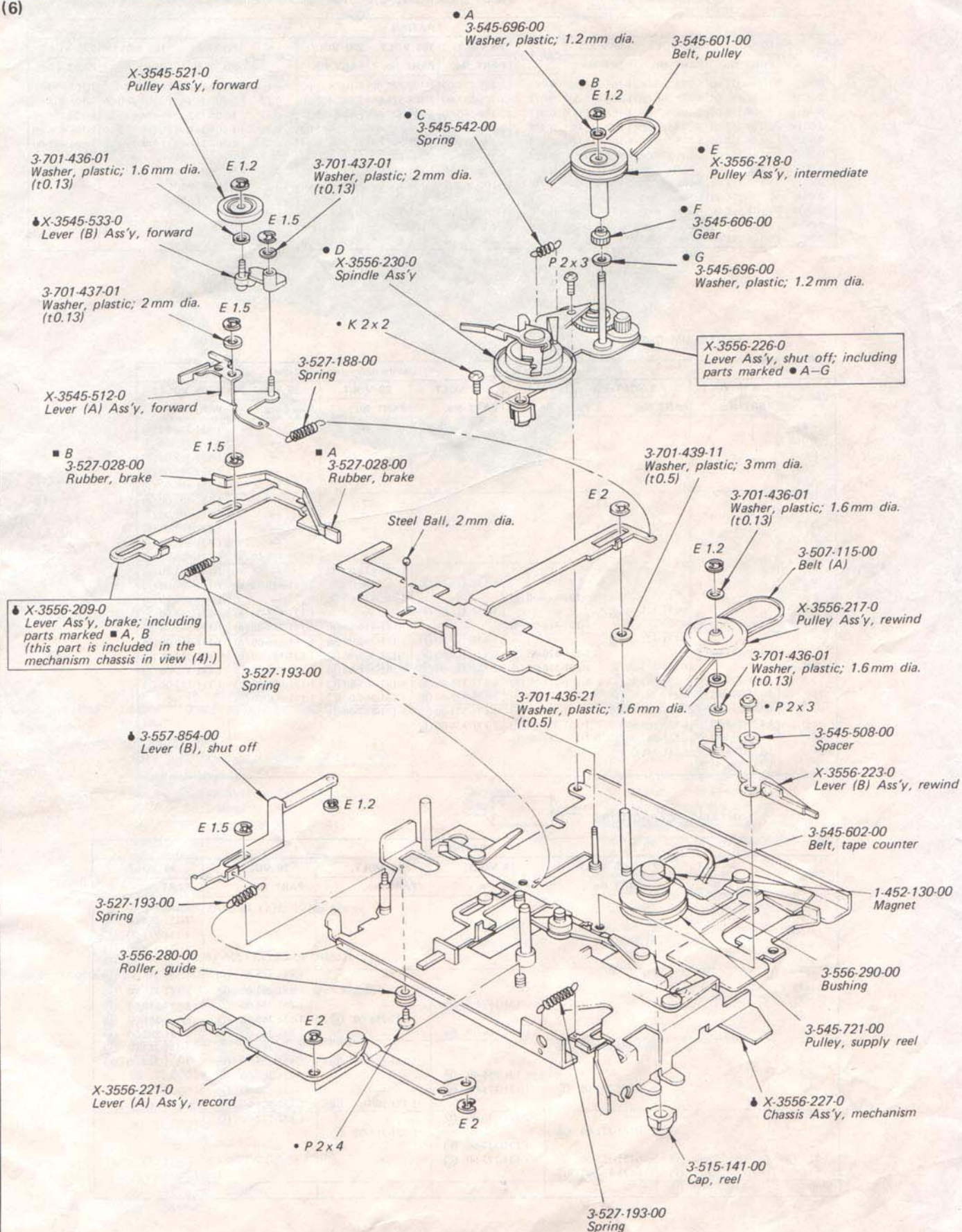
1

2

3

4

5



A

B

C

D

(7)

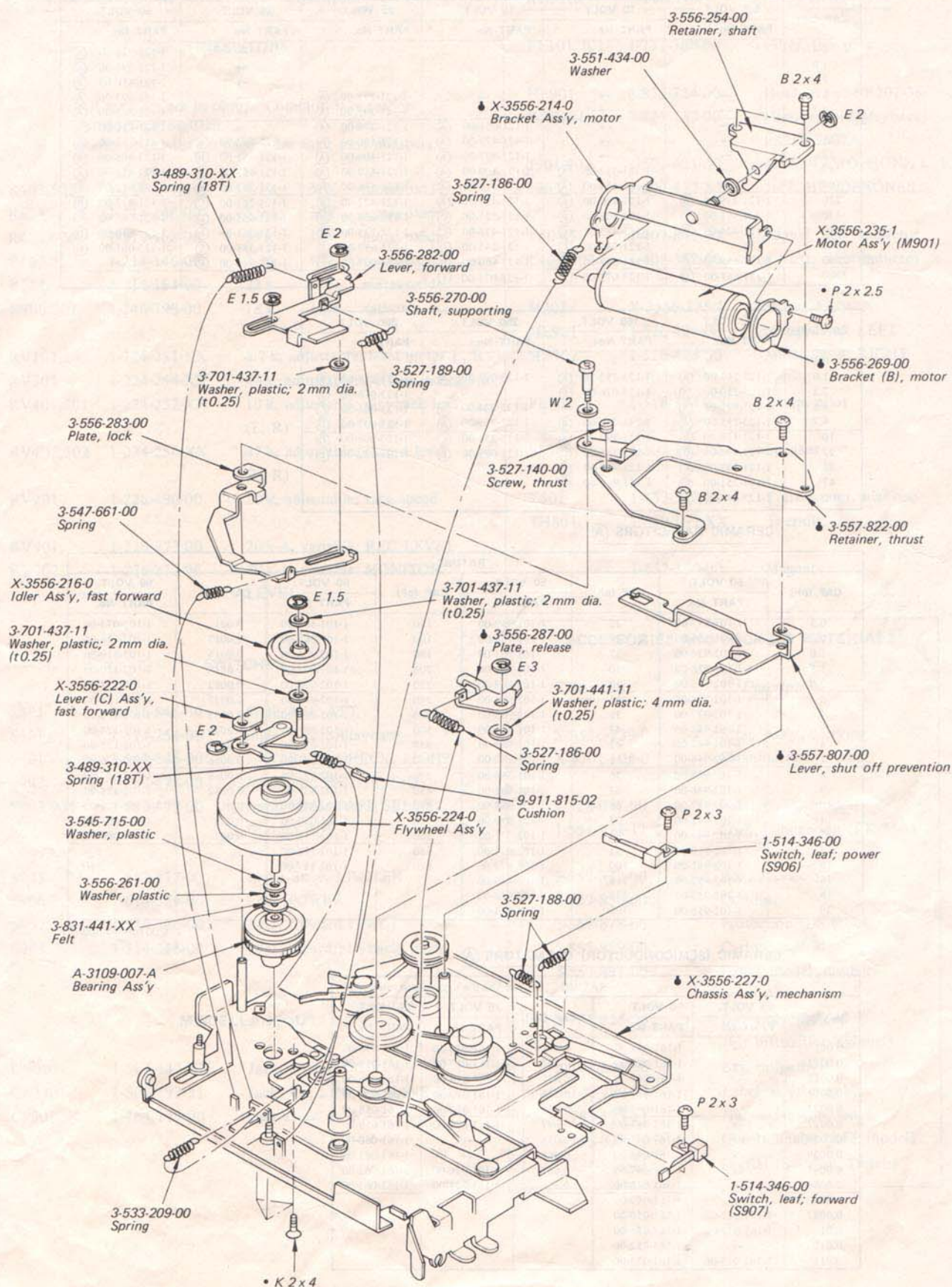
1

2

3

4

5



SECTION 6

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
COMPLETE CIRCUIT BOARDS			Q704	8-723-303-13	2SK43-13
			Q705,706	8-729-663-47	2SC1364
⚡ A-3070-047-A		Audio Amp	Q801	8-729-663-47	2SC1364
⚡ A-3073-009-A		Record	Q802	8-760-523-10	2SA772-23
			Q803-805	8-729-663-47	2SC1364
PRINTED CIRCUIT BOARDS			Q901	8-763-213-00	2SA861
⚡ 1-602-592-00		Switch	ICs		
⚡ 1-602-593-00		Stabilizer	IC301	8-743-370-00	BX337
⚡ 1-602-594-00		Limiter	IC302	8-759-135-80	μPC358C
⚡ 1-602-595-00		LED	IC303	8-743-380-00	BX338
⚡ 1-602-596-00		Monitor Volume	IC304	8-743-350-00	BX335
⚡ 1-602-597-00		Transistor	IC401,501	8-759-101-74	CX174
⚡ 1-602-598-00		Head	IC402,502	8-751-840-00	CX184
SEMICONDUCTORS			IC701	8-759-135-80	μPC358C
Transistors			IC702	8-750-690-00	CX069
Q101,201	8-729-334-58	2SC1345	IC801	8-751-840-00	CX184
Q102,202			Diodes		
Q103,203			D101,201	8-719-422-21	1T22AM
Q104,204			D301,401	8-719-815-55	1S1555
Q105,205			D501		
Q301	8-729-663-47	2SC1364	D601-606		
Q302	8-760-335-10	2SC1474	D607,608	8-719-910-65	HZ6B2L
Q401,501	8-729-612-77	2SA1027R	D609,610	8-719-815-55	1S1555
Q402,502	8-729-334-58	2SC1345	D801	8-719-200-02	10E2
Q403,503	8-729-612-77	2SA1027R	D901,902	8-719-900-24	SLP24B
Q404,405	8-729-663-47	2SC1364	Magnetic Element		
Q407-411			RM701	8-745-101-01	DM-101
Q412	8-729-612-77	2SA1027R	CAPACITORS		
Q504,505	8-729-663-47	2SC1364	All capacitors are in μF. Common capacitors are omitted. Refer to the list on pages 31 and 32 for their part numbers.		
Q507-511					
Q512	8-729-612-77	2SA1027R	C440,540	1-107-253-00	15+18+22+27p 500V mica
Q601,606	8-729-195-23	2SA952	C606	1-130-062-00	0.0056 630V film
Q602-605	8-729-663-47	2SC1364	C710	1-130-140-00	0.039 100V film
Q607			C901	1-102-074-00	0.001 50V ceramic
Q608	8-729-100-13	2SC2001			
Q609	8-729-663-47	2SC1364			
Q610	8-760-335-10	2SC1474			
Q611	8-729-334-58	2SC1345			
Q612	8-729-663-47	2SC1364			
Q613,617	8-729-203-04	2SK30A			
Q614,615	8-729-612-77	2SA1027R			
O616	8-760-523-10	2SA772-23			
Q701,703	8-729-663-47	2SC1364			
Q702	8-729-612-77	2SA1027R			

Items marked "⚡" are not stocked because they are seldom required for routine service. Some delay — 29 — should be anticipated when ordering these items.

Ref. No. Part No. Description

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on page 5 for their part numbers.

R403,503	1-214-147-00	4.3 k	¼W	metal-oxide
R624	1-214-146-00	3.9 k	¼W	metal-oxide
R625,626	1-214-168-00	33 k	¼W	metal-oxide
R627	1-214-146-00	3.9 k	¼W	metal-oxide
R714	1-214-164-00	22 k	¼W	metal-oxide
R906,907	1-246-798-00	18 k	⅛W	carbon
RV101,201	1-224-251-XX	4.7 k, adjustable;		level meter L, R
RV301	1-224-254-XX	47 k, adjustable;		battery indication
RV401,501	1-224-252-XX	10 k, adjustable;		playback level (L, R)
RV402,502	1-224-254-XX	47 k, adjustable;		record level (L, R)
RV701	1-226-490-00	20 k, adjustable;		tape speed
RV901	1-226-273-00	20 k-A, variable;		REC LEVEL
RV902	1-226-272-00	20 k-A, variable;		MONITOR LEVEL

SWITCHES

S301	1-516-846-00	Slide, MIC ATT
S601	1-514-254-00	Slide, record/playback
S901	1-514-346-00	Leaf, BATT CHECK, LIGHT
S902	1-552-478-00	Miniature, METAL, CrO ₂
S903,904	1-552-477-00	Lever Slide, TAPE SELECT, DOLBY NR
S905	1-552-477-00	Lever Slide, LIMITER
S906	1-514-346-00	Leaf, POWER
S907	1-514-346-00	Leaf, forward (FWD)
S908	1-514-346-00	Leaf, record/playback, mute

MISCELLANEOUS

CN901	1-507-447-XX	Jack, power; DC IN 6V
CNJ901	1-507-593-21	Jack, 4p; LINE IN, LINE OUT
CP601	1-464-119-00	Convertor, dc-dc

Ref. No. Part No. Description

FL101,201	1-231-388-00	Filter, low pass
HE901	8-825-724-00	Head, erase; EF201-36
HRP901	8-825-732-00	Head, record/playback, PS210-3602A
J901,902	1-507-421-00	Jack, MICROPHONE L, R
J903	1-507-477-XX	Jack, HEADPHONES
L401,501	1-407-879-00	33 mH, microinductor
L402,502	1-408-352-00	6.8 μH, microinductor
M901	X-3556-235-1	Motor Ass'y
ME901	1-520-425-00	Meter, level; LEFT
ME902	1-520-426-00	Meter, level; RIGHT
PL901	1-518-134-XX	Lamp, pilot
SP901	1-502-582-00	Speaker
T601	1-433-223-00	Transformer, bias osc
TH801	1-800-199-XX	Thermistor
	1-452-130-00	Magnet

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
X-3556-239-0	Strap Ass'y, carrying
X-3701-105-0	Cleaning Ass'y, head
1-528-057-00	Battery (US model)
1-551-734-11	Cord, connection (RK-74A)
3-557-848-00	Box, accessory
3-557-850-00	Cushion
3-557-878-00	Protection (US model)
3-557-889-00	Carton, individual
3-557-891-00	Label, model number
3-701-625-00	Bag, polyethylene (for instruction manual)
3-701-631-00	Bag, polyethylene
3-701-999-00	Label, serial number
3-783-175-11	Manual, instruction
3-793-828-11	Questionnaire (AEP model)
3-794-934-11	Leaflet (Swedish, Dutch)

ELECTROLYTIC CAPACITORS

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

CAP. (μF)	RATING					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00 (A)
1.0					→	1-121-391-00 (A)
2.2					→	1-121-450-00 (A)
3.3	→	→	→	1-121-392-00 (A)	→	1-121-393-00 (A)
4.7	→	→	→	1-121-395-00 (A)	→	1-121-396-00 (A)
10	→	→	1-121-651-00 (A)	1-121-398-00 (A)	→	1-121-738-00 (A)
22	→	→	1-121-479-00 (A)	1-121-480-00 (A)	1-121-662-00 (A)	1-121-152-00 (A)
33	→	→	1-121-403-00 (A)	1-121-404-00 (A)	1-121-652-00 (B)	1-121-405-00 (A)
47	→	1-121-352-00 (A)	1-121-409-00 (A)	1-121-410-00 (A)	1-121-653-00 (B)	1-121-411-00 (A)
100	→	1-121-414-00 (A)	1-121-415-00 (A)	1-121-416-00 (A)	1-121-357-00 (B)	1-121-417-00 (B)
220	1-121-419-00 (B)	1-121-420-00 (B)	1-121-421-00 (A)	1-121-422-00 (B)	1-121-261-00 (C)	1-121-423-00 (B)
330	1-121-751-00 (B)	1-121-805-00 (B)	1-121-521-00 (C)	1-121-654-00 (B)	1-121-655-00 (D)	1-121-656-00 (C)
470	1-121-424-00 (B)	1-121-425-00 (C)	1-121-426-00 (C)	1-121-733-00 (B)	1-121-361-00 (E)	1-121-810-00 (D)
1000	—	1-121-736-00 (C)	1-121-245-00 (D)	1-121-657-00 (D)	1-121-388-00 (E)	1-123-061-00 (F)
2200	1-121-658-00 (B)	1-121-659-00 (C)	1-121-660-00 (D)	1-123-067-00 (E)	1-121-984-00 (F)	—
3300	1-121-661-00 (D)	1-123-075-00 (E)	1-123-071-00 (F)	—	—	—

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—
1.0	1-123-249-00 (A)	1-123-252-00 (A)	1-123-003-00 (B)	1-121-168-00 (B)
2.2	1-123-250-00 (A)	1-123-026-00 (B)	—	1-123-028-00 (B)
3.3	1-121-995-00 (A)	—	1-123-004-00 (B)	1-123-006-00 (C)
4.7	1-123-255-00 (A)	1-121-246-00 (B)	1-121-759-00 (B)	1-123-007-00 (D)
10	1-121-126-00 (B)	1-121-999-00 (B)	1-123-254-00 (C)	1-123-008-00 (D)
22	1-121-996-00 (C)	1-123-253-00 (C)	1-123-005-00 (D)	1-123-022-00 (D)
33	1-121-997-00 (C)	1-121-757-00 (C)	—	—
47	1-123-251-00 (C)	1-121-919-00 (C)	—	—
100	1-123-084-00 (E)	—	—	—

CERAMIC CAPACITORS (A)

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS (A)

RATING					
CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLAR CAPACITORS (A)

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

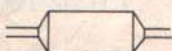
RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

TANTALUM CAPACITORS



RATING →: Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01					→	→	1-131-396-00 (B)
0.015					→	→	1-131-397-00 (B)
0.022					→	→	1-131-398-00 (B)
0.033					→	→	1-131-399-00 (B)
0.047					→	→	1-131-400-00 (B)
0.068					→	→	1-131-401-00 (B)
0.1					→	→	1-131-402-00 (B)
0.15					→	→	1-131-403-00 (B)
0.22					→	→	1-131-404-00 (B)
0.33					→	1-131-409-00 (B)	1-131-405-00 (B)
0.47	—	—	—	—	1-131-412-00 (B)	→	1-131-406-00 (B)
0.68	—	—	—	1-131-415-00 (B)	→	1-131-410-00 (B)	1-131-407-00 (B)
1.0	—	—	1-131-418-00 (B)	—	1-131-413-00 (B)	→	1-131-408-00 (B)
1.5	—	1-131-421-00 (B)	—	1-131-416-00 (B)	→	1-131-411-00 (B)	1-131-348-00 (B)
2.2	1-131-424-00 (B)	—	1-131-419-00 (B)	—	1-131-414-00 (B)	1-131-355-00 (B)	1-131-349-00 (B)
3.3	—	1-131-422-00 (B)	—	1-131-417-00 (B)	1-131-362-00 (B)	1-131-356-00 (B)	1-131-350-00 (B)
4.7	1-131-425-00 (B)	—	1-131-420-00 (B)	1-131-369-00 (B)	1-131-363-00 (B)	1-131-357-00 (B)	1-131-351-00 (C)
6.8	—	1-131-423-00 (B)	1-131-376-00 (B)	1-131-370-00 (B)	1-131-364-00 (B)	1-131-358-00 (C)	1-131-352-00 (C)
10	1-131-426-00 (B)	1-131-383-00 (B)	1-131-377-00 (B)	1-131-371-00 (B)	1-131-365-00 (C)	1-131-359-00 (C)	1-131-353-00 (D)
15	1-131-390-00 (B)	1-131-384-00 (B)	1-131-378-00 (B)	1-131-372-00 (B)	1-131-366-00 (C)	1-131-360-00 (D)	
22	1-131-391-00 (B)	1-131-385-00 (B)	1-131-379-00 (C)	1-131-373-00 (C)	1-131-367-00 (D)		
33	1-131-392-00 (B)	1-131-386-00 (C)	1-131-380-00 (C)	1-131-374-00 (D)			
47	1-131-393-00 (C)	1-131-387-00 (C)	1-131-381-00 (D)				
68	1-131-394-00 (B)	1-131-388-00 (C)	—	—			
100	1-131-395-00 (D)	—	—	—			

TANTALUM CAPACITORS



RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00 (E)
0.047						1-131-274-00 (E)
0.068						1-131-275-00 (E)
0.1						1-131-276-00 (D)
0.15						1-131-277-00 (D)
0.22					1-131-262-00 (D)	1-131-278-00 (D)
0.33					1-131-263-00 (D)	1-131-279-00 (D)
0.47			1-131-169-00 (D)		1-131-264-00 (D)	1-131-280-00 (D)
0.68				1-131-258-00 (D)	1-131-265-00 (D)	1-131-281-00 (D)
1.0			1-131-254-00 (D)		1-131-266-00 (D)	1-131-282-00 (D)
1.5		1-131-250-00 (D)			1-131-267-00 (D)	1-131-283-00 (E)
2.2				1-131-259-00 (D)	1-131-268-00 (D)	1-131-284-00 (E)
3.3			1-131-255-00 (D)		1-131-269-00 (D)	
4.7		1-131-251-00 (E)	1-131-171-00 (D)		1-131-270-00 (D)	
6.8				1-131-260-00 (D)	1-131-271-00 (E)	
10			1-131-256-00 (D)		1-131-272-00 (E)	
15		1-131-252-00 (D)		1-131-261-00 (E)		
22			1-131-257-00 (E)			
33	1-131-176-00 (D)	1-131-253-00 (E)	1-131-173-00 (C)			
47	1-131-288-00 (F)	1-131-174-00 (D)				
100	1-131-177-00 (D)					

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— 32 —