

TC-D5M

US Model
AEP Model



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STEREO CASSETTE-CORDER

SPECIFICATIONS

Tape track	4-track 2-channel stereo	Inputs	Microphone inputs (phone jacks) sensitivity 0.25mV (-70dB) for a low-impedance microphone
Fast winding time	Approx. 150 sec. with Sony C-60 Cassette	Line inputs (phono jacks)	Line inputs (phono jacks) sensitivity 77.5mV (-20dB) input impedance more than 47 kilohms
Bias frequency	85 kHz	Outputs	Line outputs (phono jacks) output level 0.435V (-5dB) at load impedance 47 kilohms suitable load impedance more than 10 kilohms
Signal-to-noise ratio	DOLBY NR OFF <ul style="list-style-type: none">• 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	Speaker	Headphone output max. power output 20mW (at load impedance 8 ohms)
Total harmonic distortion	1.0% (with Sony METALLIC or DUAD)	Power output	Approx. 5cm 200mW (EIAJ/DC)
Frequency response	DOLBY NR OFF <ul style="list-style-type: none">• With TYPE IV cassette (Sony METALLIC) 20-19,000Hz30-17,000Hz (± 3dB)30-13,000Hz (± 3dB, 0 VU recording)With TYPE III cassette (Sony DUAD) 20-19,000Hz30-17,000Hz (± 3dB)With TYPE II cassette (Sony JHF) 20-18,000Hz30-15,000Hz (± 3dB)With TYPE I cassette (Sony BHF) 20-17,000Hz30-14,000Hz (± 3dB)		
Wow and flutter	0.06% (WRMS)		

— Continued on page 2 —

0dB = 0.775V

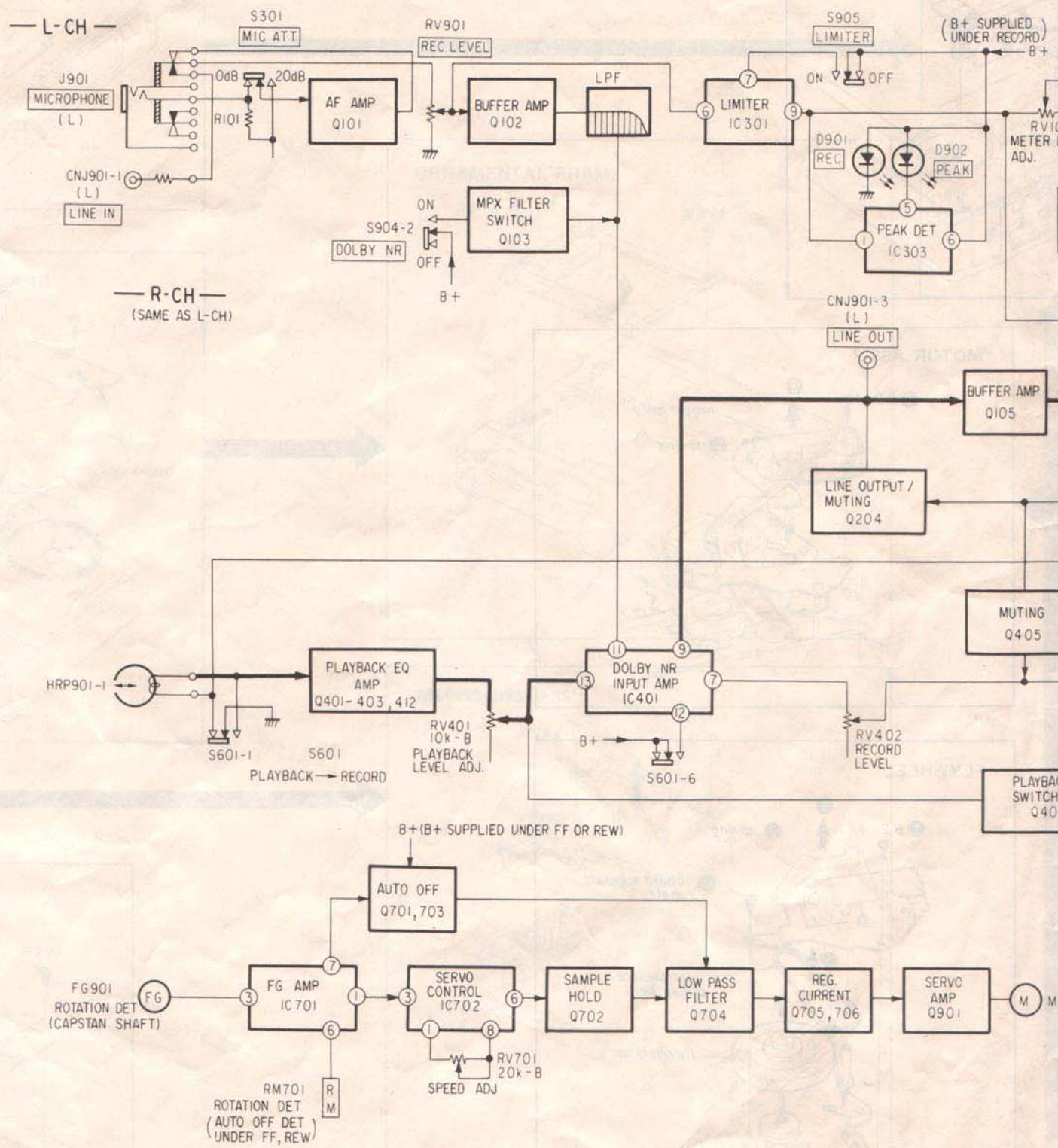
SONY
SERVICE MANUAL

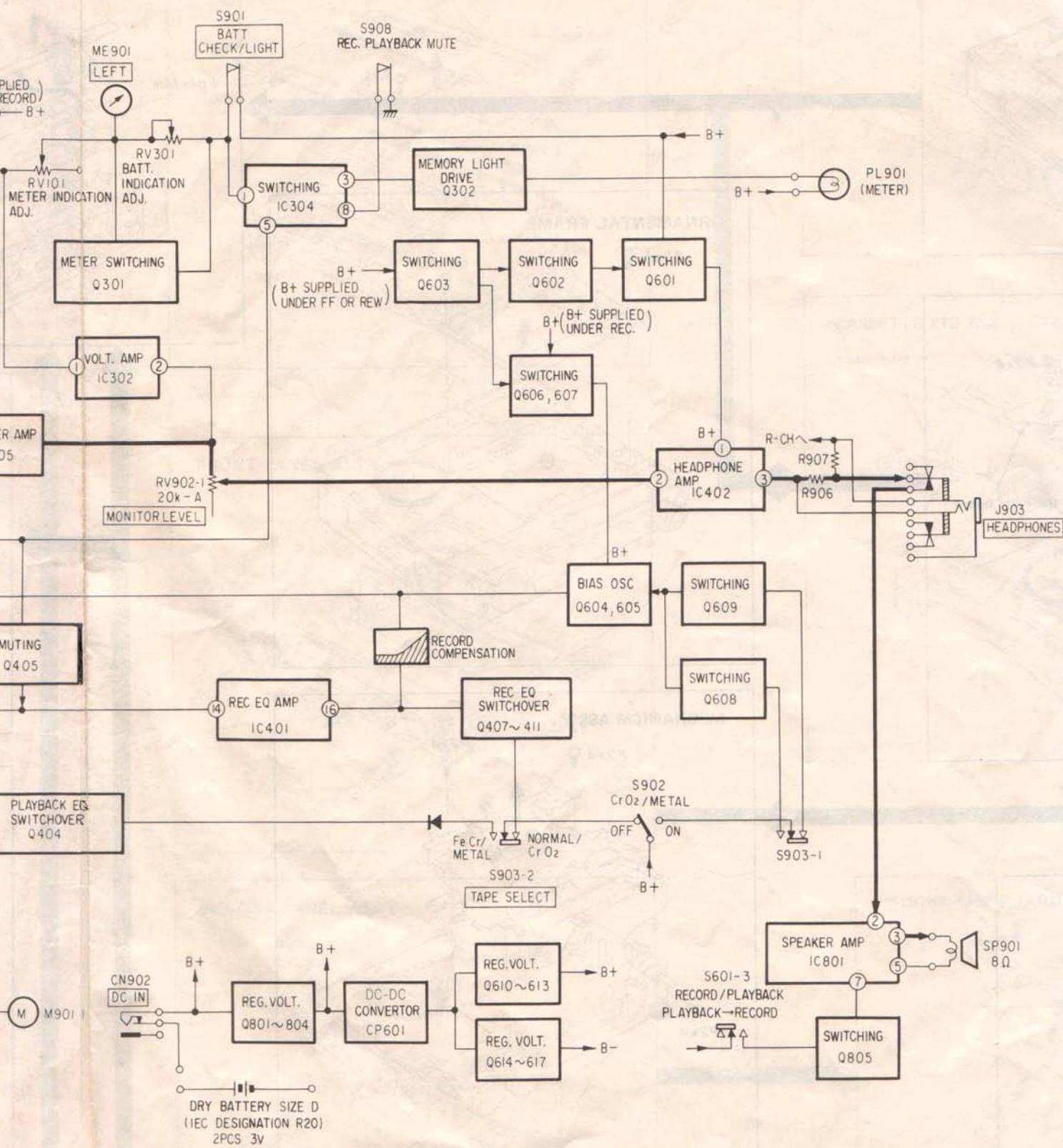
General

Power requirements	3V dc, two UM-1 batteries (IEC designation R20) 100V ac, 50/60Hz with Sony AC-61 AC Power Adaptor (optional)
Power consumption	12VA (50Hz), 11VA (60Hz) 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	237×48×168mm (w/h/d) including projecting parts and controls
Weight	1.7kg (incl. batteries)

SECTION 1 OUTLINE

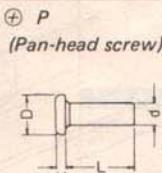
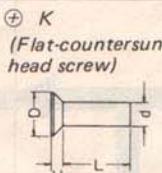
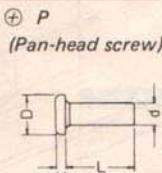
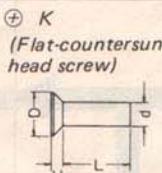
1-1. BLOCK DIAGRAM





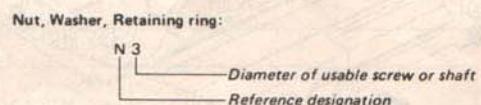
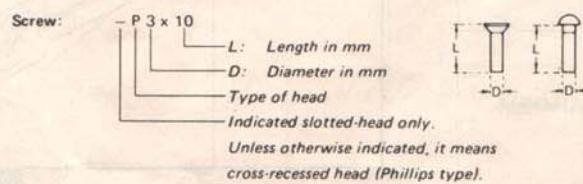
Use the charts together with the exploded views (Page 22 to 28).

GRADE 8 DIMENSIONS AND PART NO. OF PRECISION SCREWS

Type						
Type						
Type 1	d mm	H mm	D mm	d mm	H mm	D mm
Type 1	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



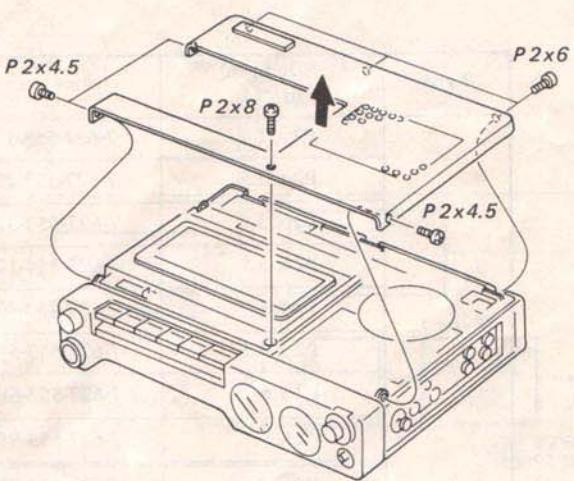
Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement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

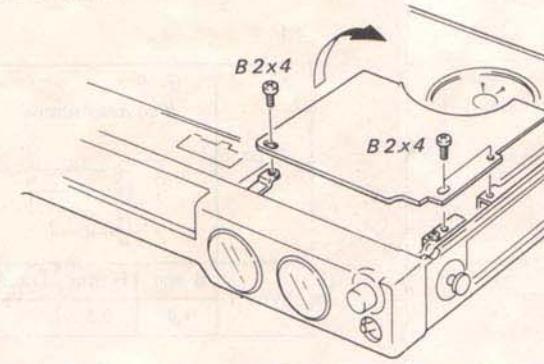
SECTION 2 DISASSEMBLY

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

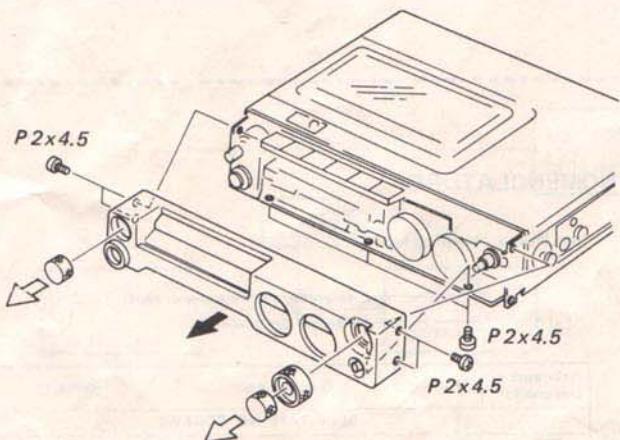
UPPER PANEL



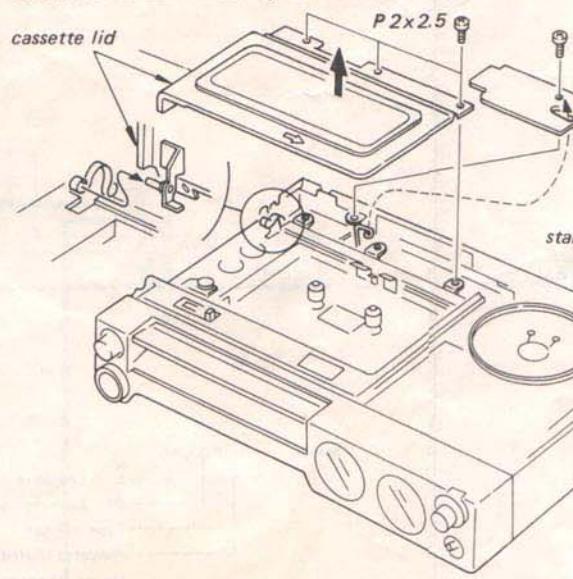
REC BOARD

*B 2x4**B 2x4*

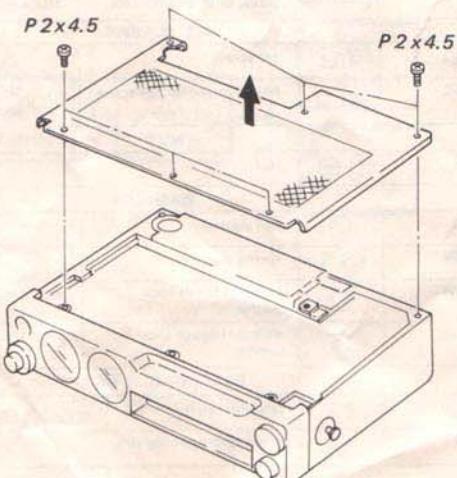
FRONT PANEL ASS'Y



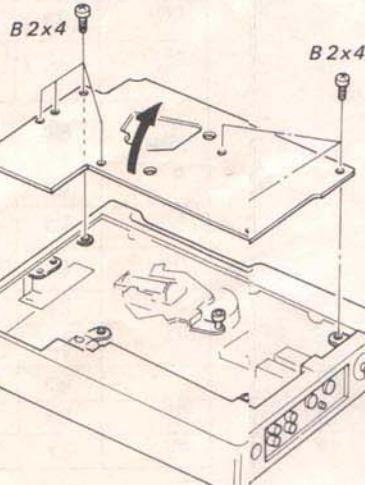
CASSETTE LID ASS'Y, STABILIZER BOARD



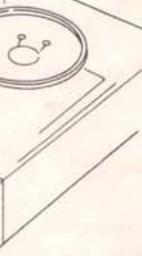
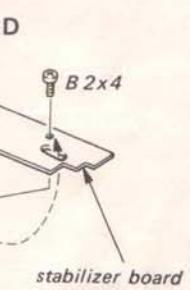
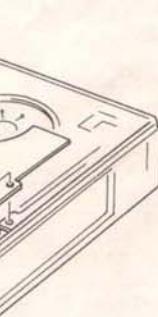
BOTTOM PANEL ASS'Y



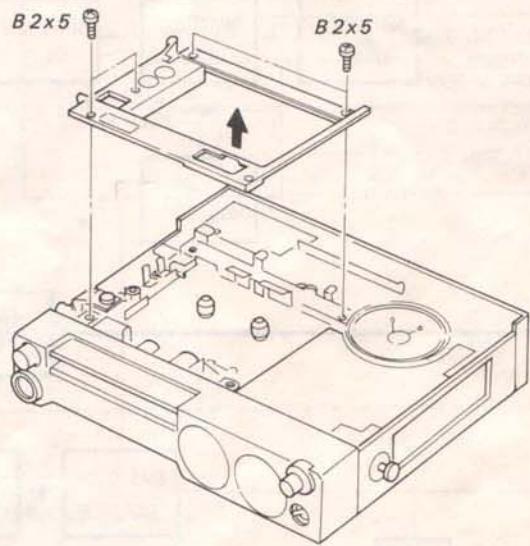
AUDIO AMP BOARD



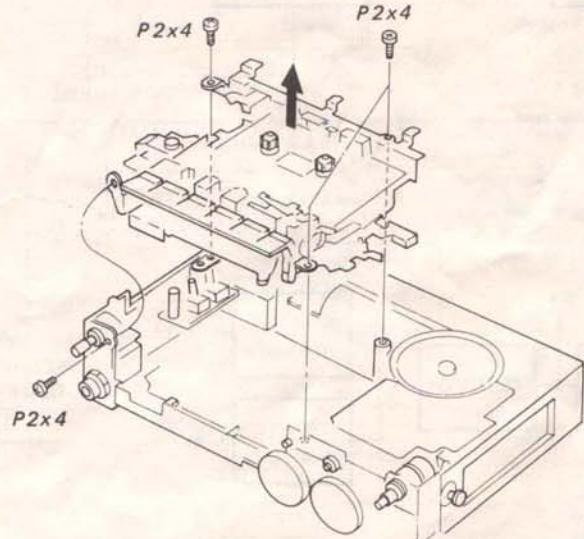
given.



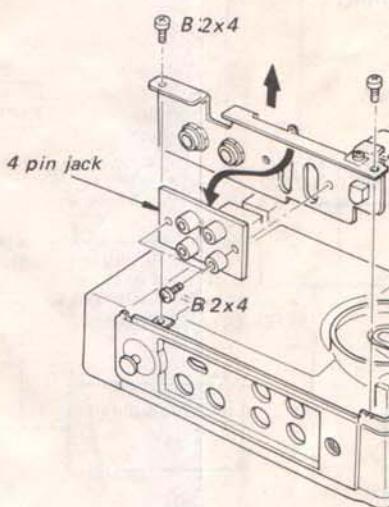
ORNAMENTAL FRAME



MECHANISM ASS'Y

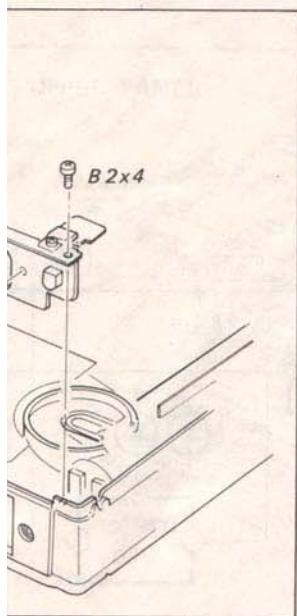
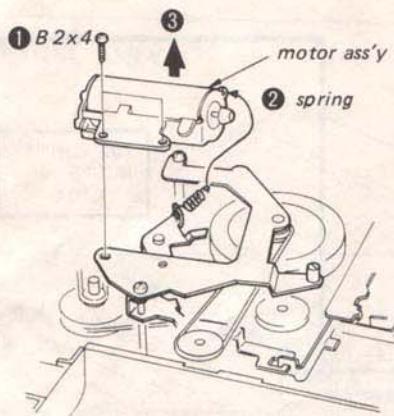
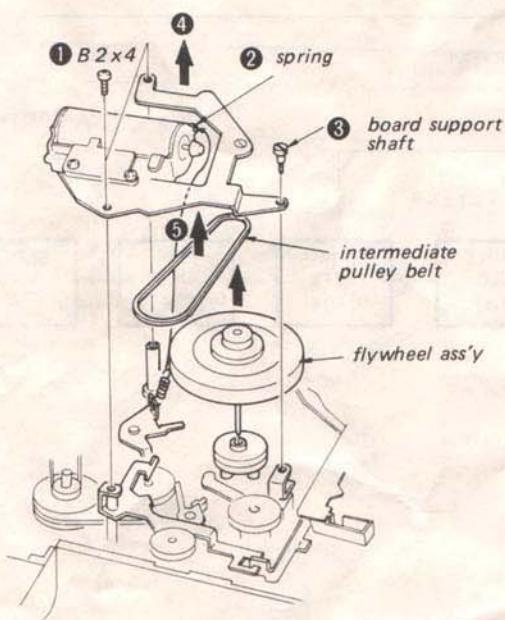


4 PIN JACK



MOT

FLY

**MOTOR ASS'Y****FLYWHEEL**

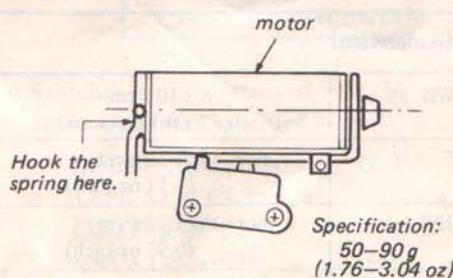
SECTION 3

ADJUSTMENTS

3-1. Mechanical Adjustments

Motor Pressure Measurement

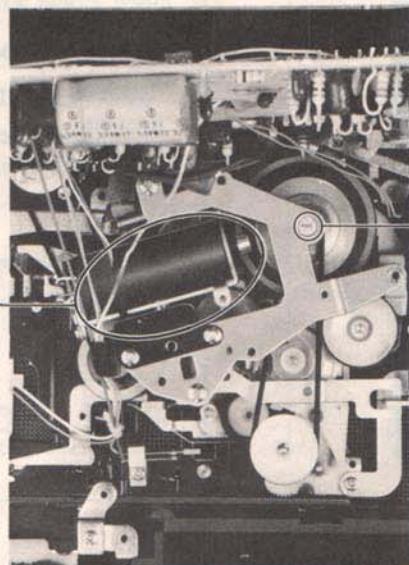
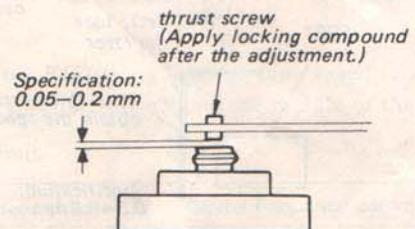
Erect the set in a perpendicular condition and push the forward (FWD) button. Pull the spring scale hooked in the position shown below. Slowly touch the flywheel with the motor pulley and read the spring scale just when the flywheel starts rotating.



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.

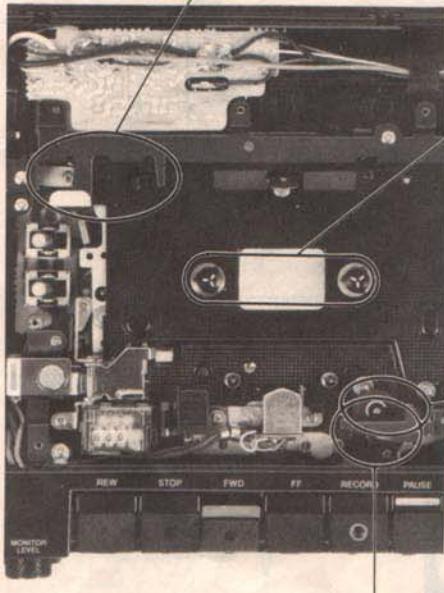
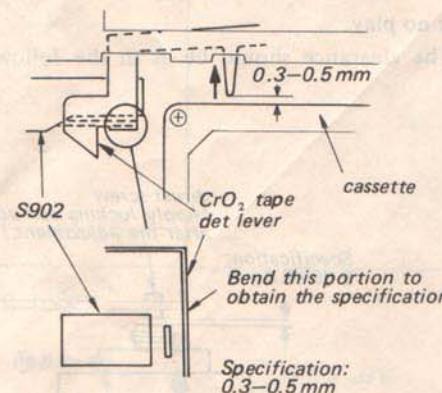
(The clearance should be as in the following figure.).



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.

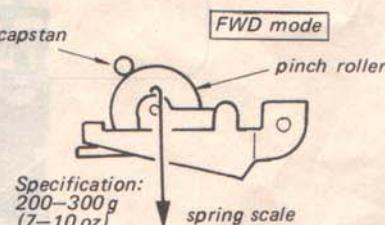
Return the CrO₂ tape det lever in the original position and confirm that S902 is OFF. (Be sure that the miniature switch lever is pushed.)

**Torques (Reference)**

FWD	$38 \pm 10 \text{ g}\cdot\text{cm}$ ($0.52 \pm 0.13 \text{ oz}\cdot\text{inch}$)
FF	more than $80 \text{ g}\cdot\text{cm}$ ($1.11 \text{ oz}\cdot\text{inch}$)
REW	more than $70 \text{ g}\cdot\text{cm}$ ($0.97 \text{ oz}\cdot\text{inch}$)
back tension	less than $5 \text{ g}\cdot\text{cm}$ ($0.069 \text{ oz}\cdot\text{inch}$)

Pinch Roller Pressure Measurement**— Playback Mode —**

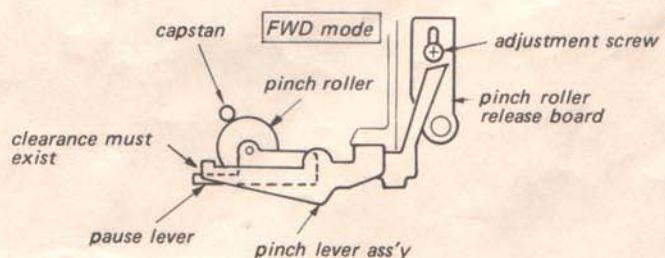
1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating.

**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/CrO ₂
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	300Ω	47 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

Standard Output Level

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

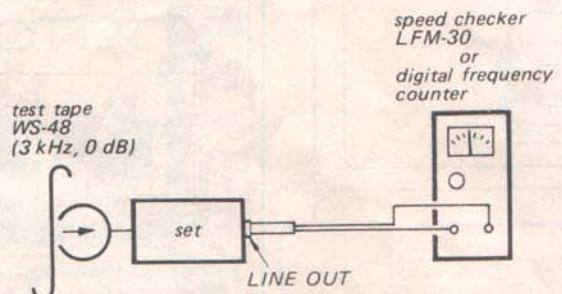
Tape Speed Adjustment

Setting:

MONITOR LEVEL : mechanical mid

Procedure:

Mode: playback



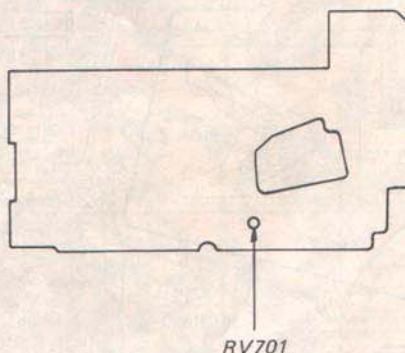
Adjust RV701 so that the tape speed is within the specification around the middle of the tape.

Specification:

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

Adjustment Location:

— audio amp board —
(conductor side)



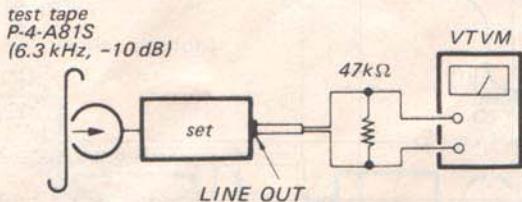
Record/playback Head Azimuth Adjustment

Setting:

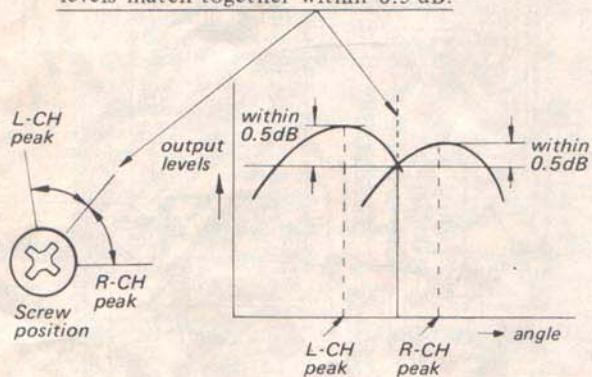
MONITOR LEVEL : mechanical mid

Procedure:

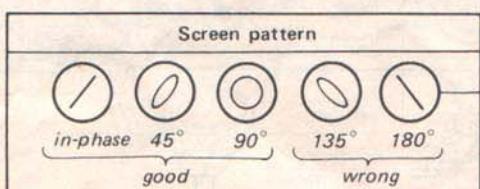
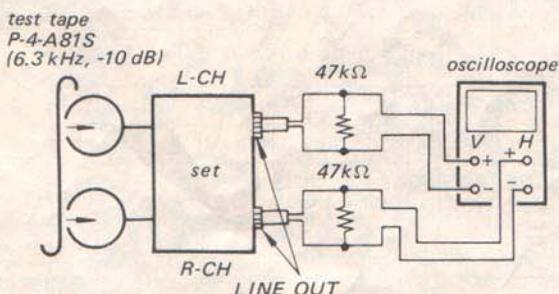
1. Mode: Playback



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.



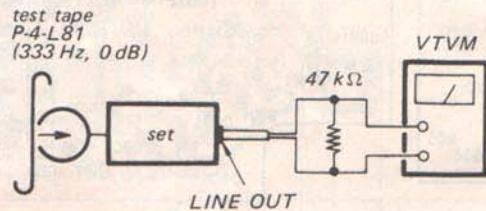
3. Phase Check
Mode: playback



Playback Level Adjustment

Procedure:

1. Mode: Playback

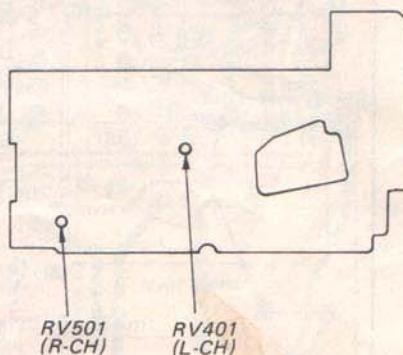


2. Adjust RV401 (L-CH) and RV501 (R-CH) so that the LINE OUT level is within the specification.

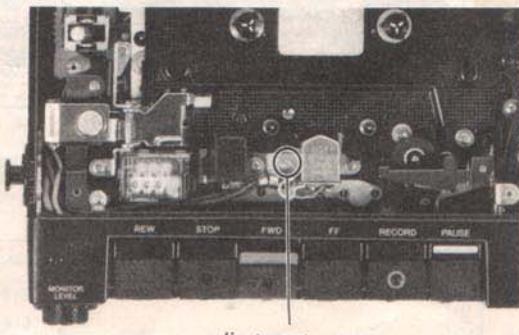
Specification:

0.55 V (-3 dB)

Adjustment Location:

— audio amp board —
(conductor side)

Adjustment Location:



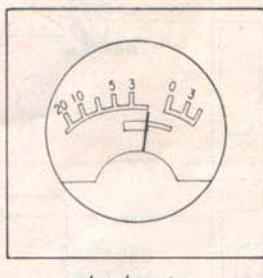
Battery Indicator Calibration Adjustment**Procedure:**

Power: 2.2V dc

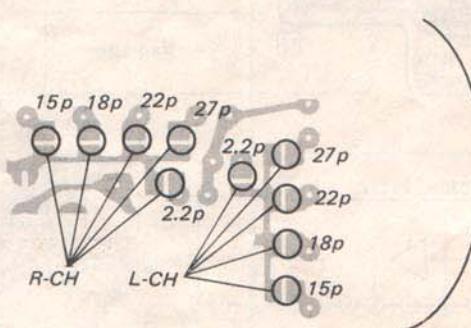
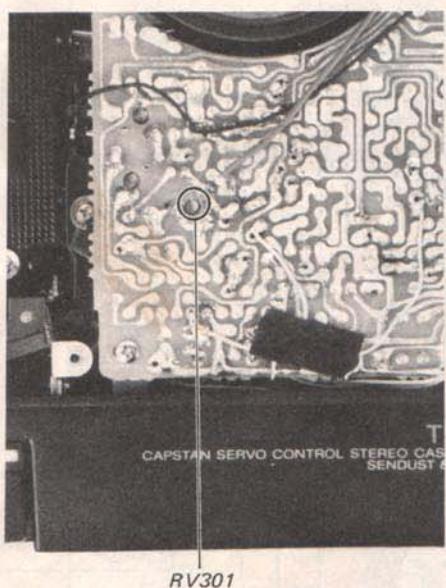
Mode: playback

(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.

**Adjustment Location:**

— record board —

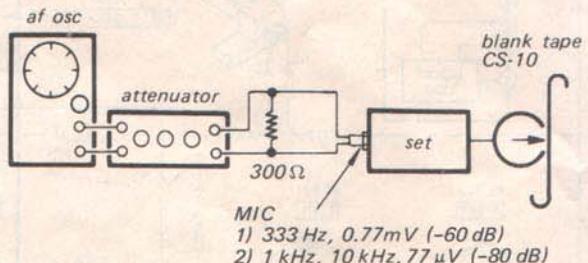
**Record Bias Adjustment****Setting:**TAPE SELECT switch: NORMAL/CrO₂

LIMITER switch: OFF

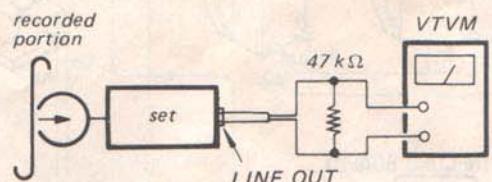
Record 333Hz signal and adjust the REC LEVEL control to obtain -5dB LINE OUT level.

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

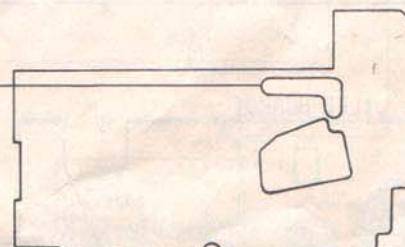
Specification:

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

Adjustment Location:

— audio amp board —

(Conductor Side)

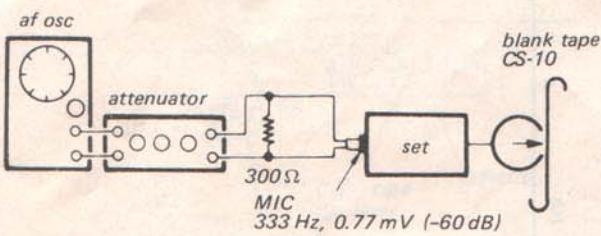


Record Level Adjustment**Setting:**

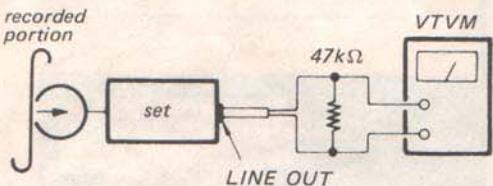
MIC ATT switch: 0 dB
 LIMITER switch: OFF
 TAPE SELECT switch: NORMAL/CrO₂
 REC LEVEL control: standard record
 (See page 11.)

Procedure:

1. Mode: record

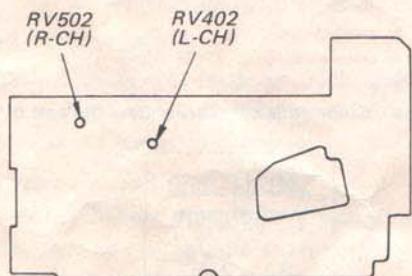


2. Record -60 dB (0.77 mV), 333 Hz signal in a blank tape (CS-10).
3. Playback the recorded tape in step 2.
4. Mode: playback



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.

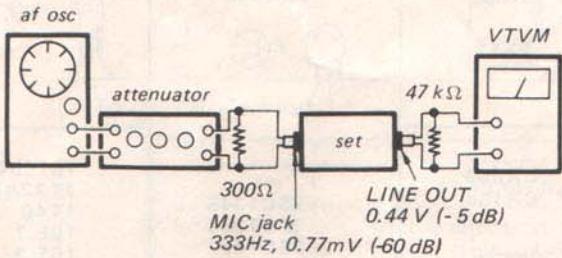
Tape	Specification	TAPE SELECT
CS-10	-5 dB ± 0.5 dB	NORMAL/CrO ₂
CS-25	-5 dB ± 2 dB	NORMAL/CrO ₂
CS-30	-5 dB ± 2 dB	FeCr/METAL
CS-40	-5 dB ± 2 dB	FeCr/METAL

Adjustment Location:*— audio amp board —***Meter Level Adjustment****Setting:**

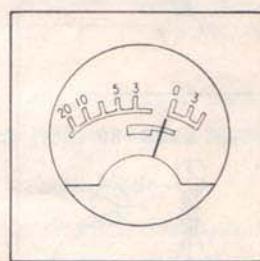
MIC ATT switch: 0 dB
 LIMITER switch: OFF
 REC LEVEL control: standard record
 (See page 11.)

Procedure:

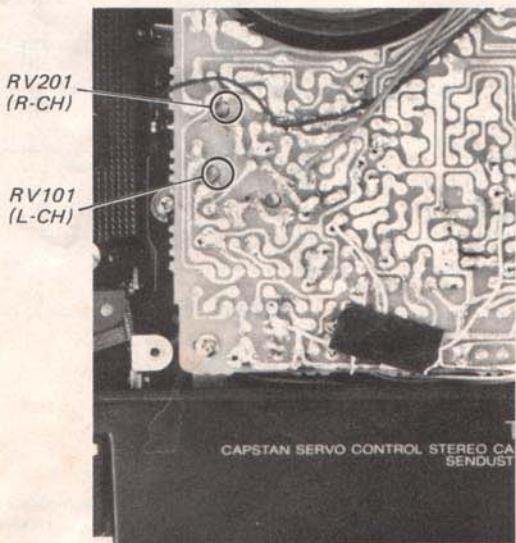
1. Mode: record



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

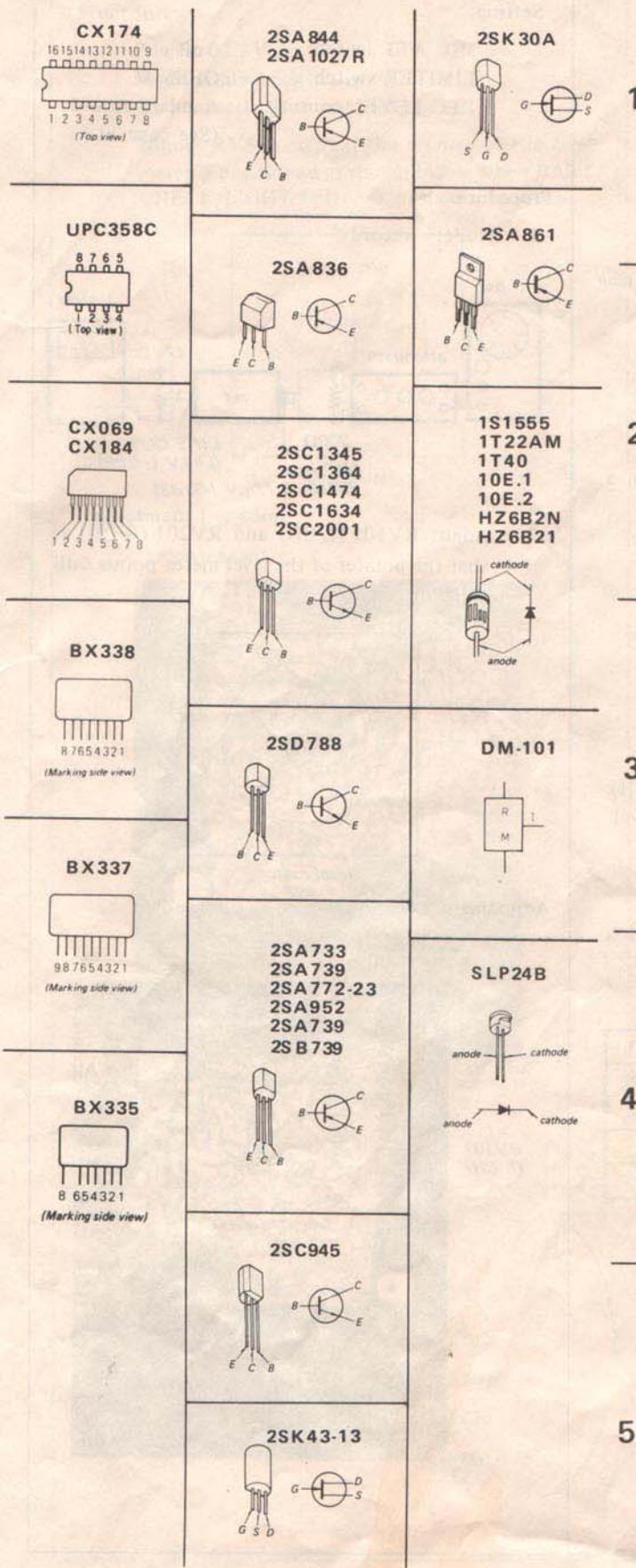


level meter

Adjustment Location:*— record board —*

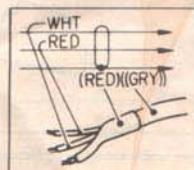
SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM



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.



B

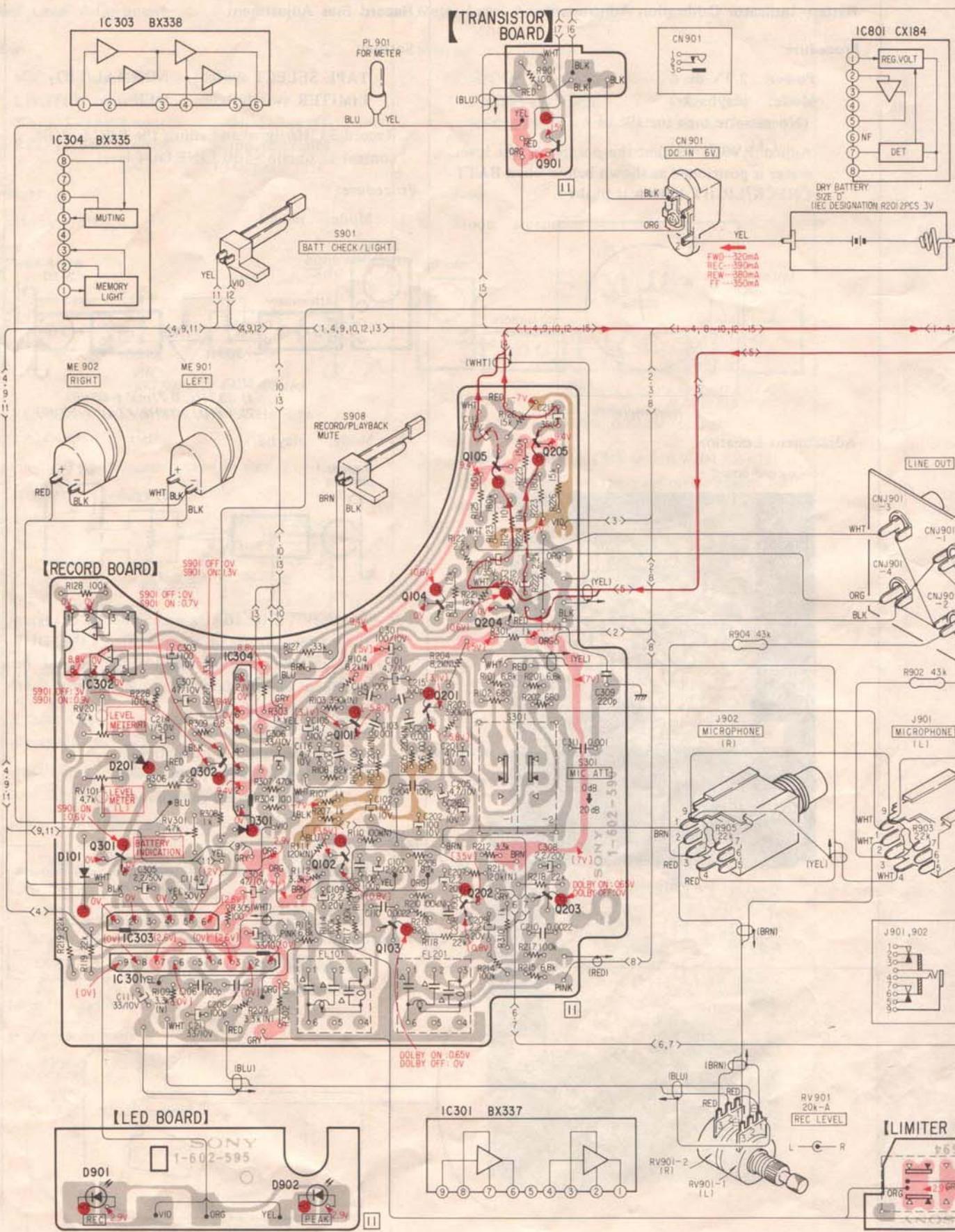
C

D

E

F

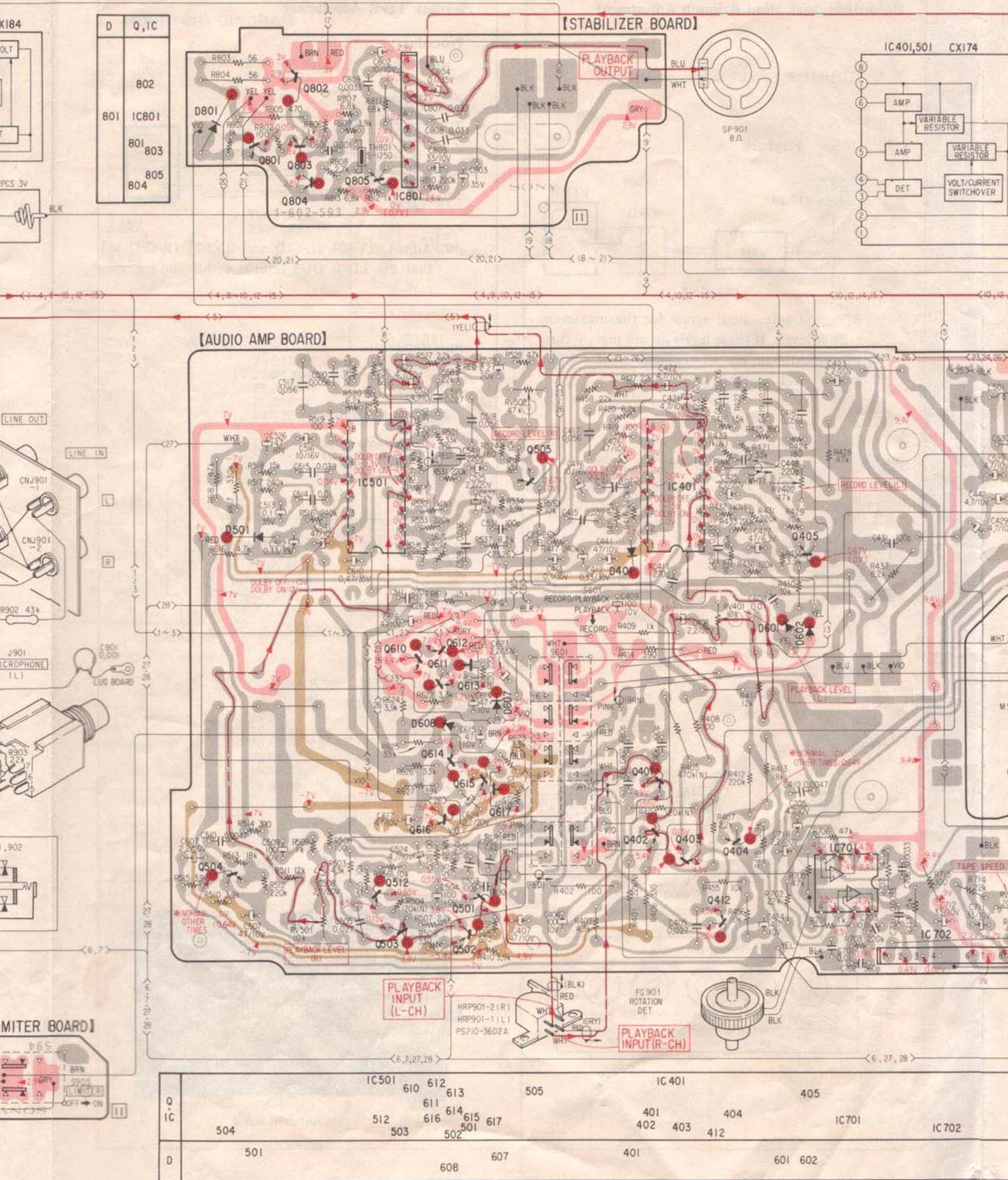
D	Q, IC
901	IC 303 BX338
901	IC 304 BX335
105	ME 902 RIGHT
105	ME 901 LEFT
104	IC 302
101	IC 304
201	IC 302
101	IC 304
301	IC 301
101	IC 301
202	IC 303
203	IC 303
103	IC 301
901	IC 301
9022	IC 301



G

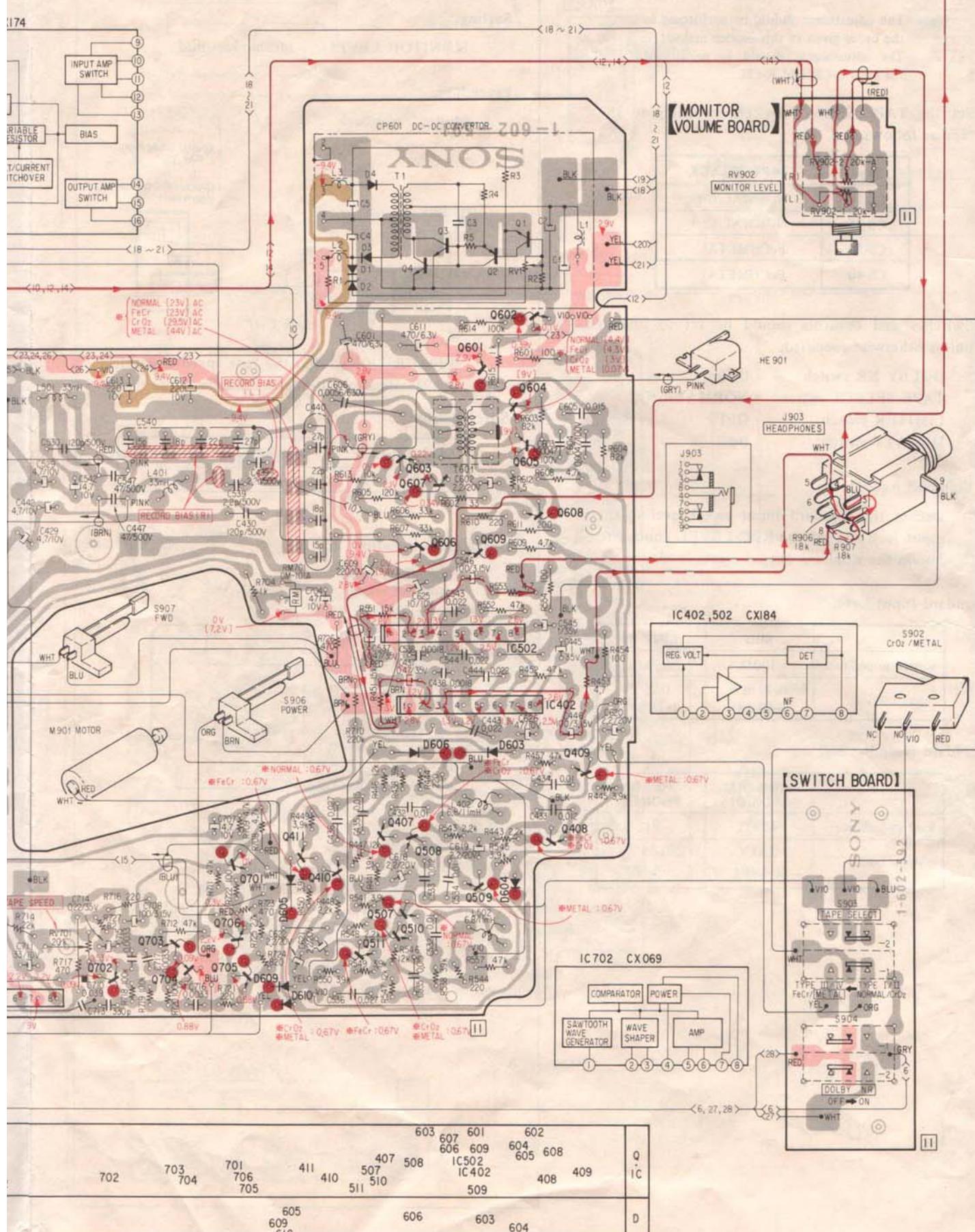
H

J

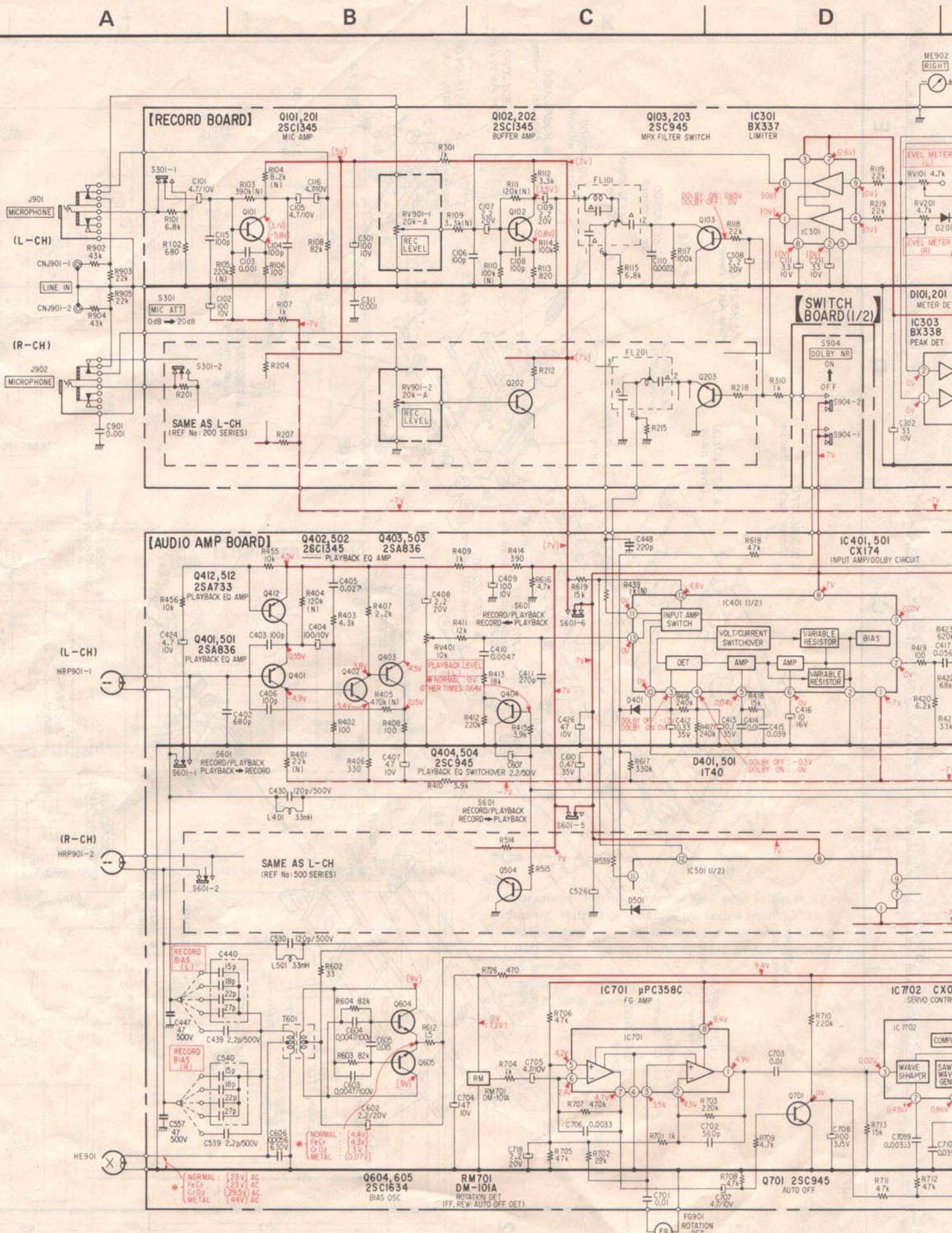


TC-D5M

K L M N



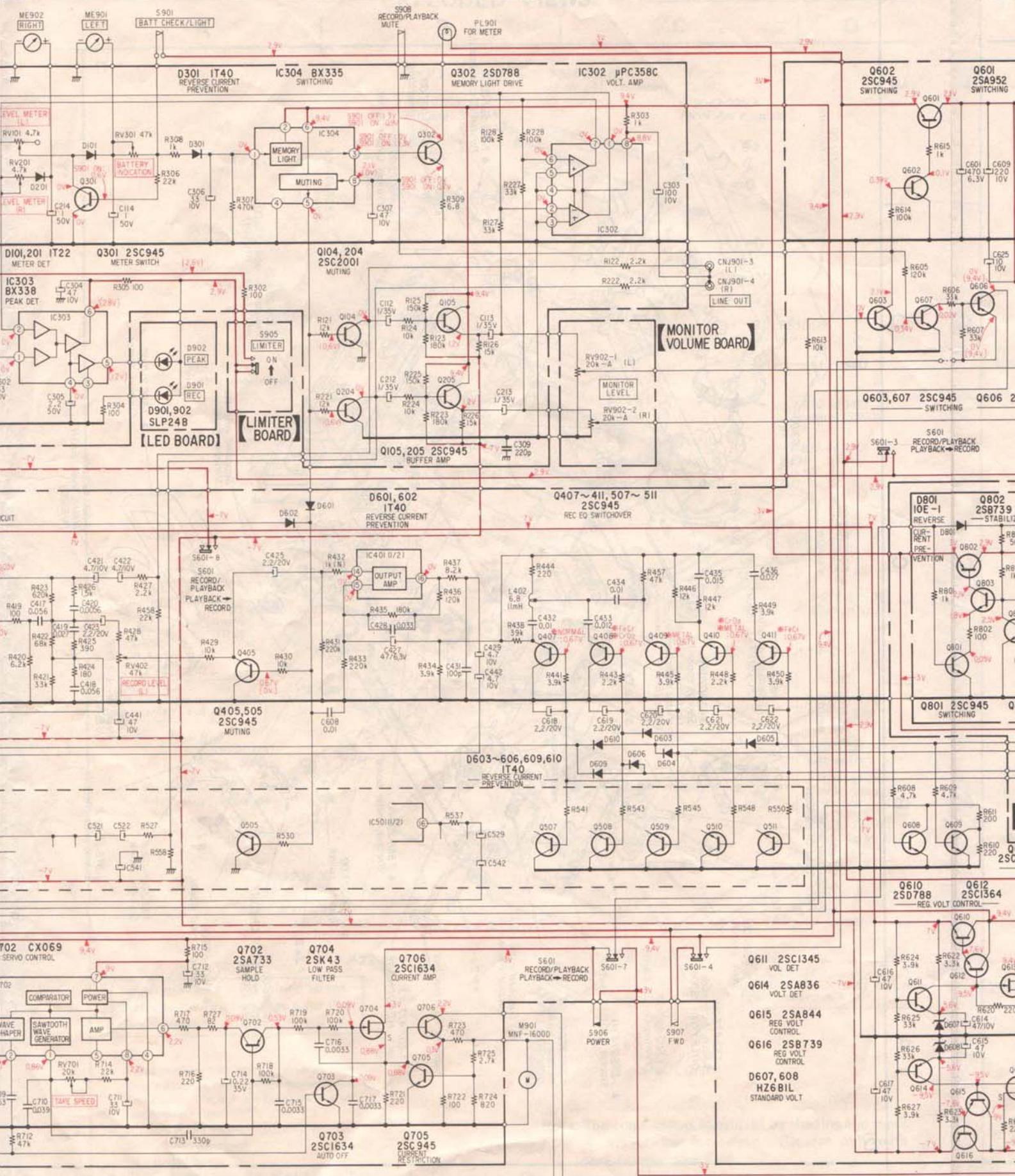
4-2. SCHEMATIC DIAGRAM



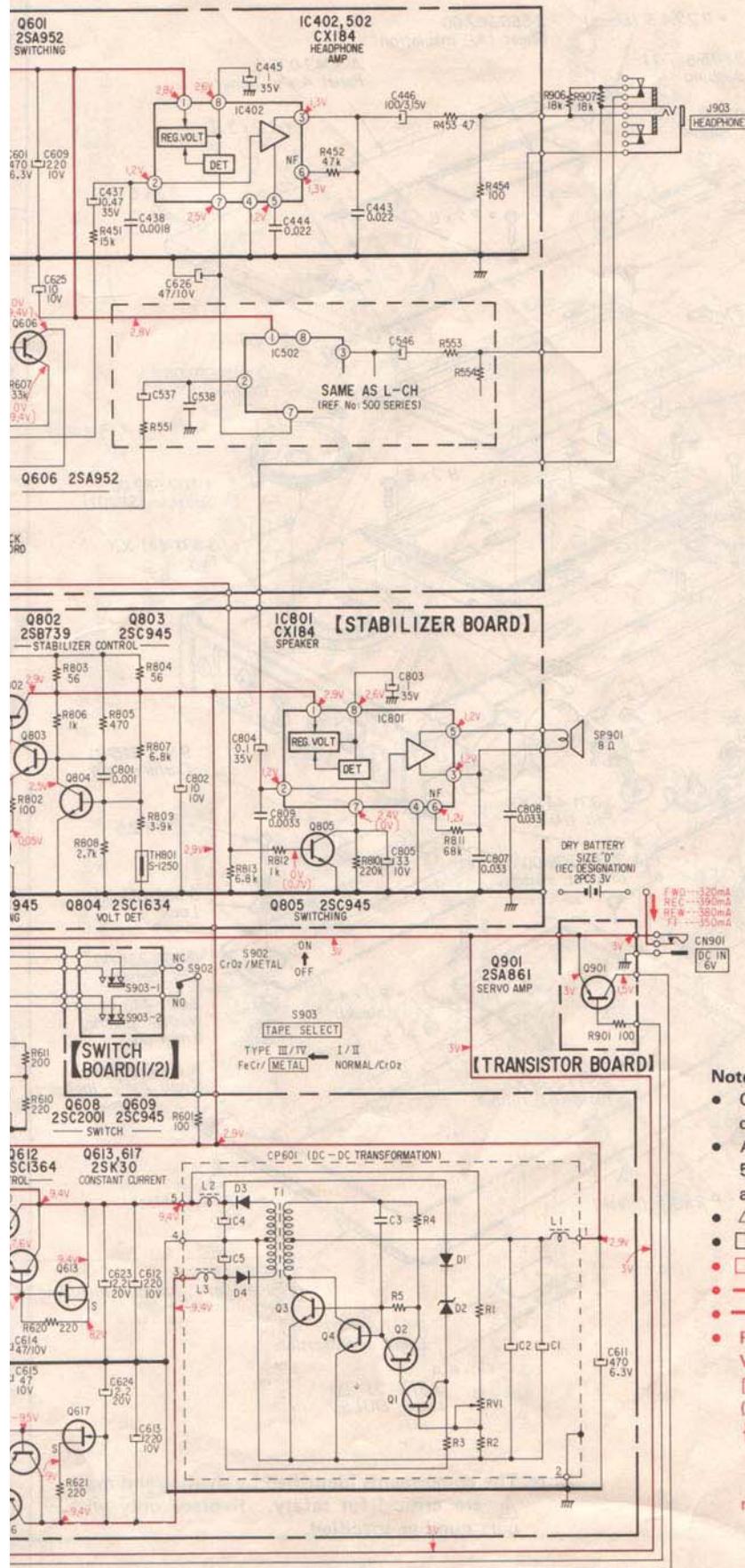
F

F

G



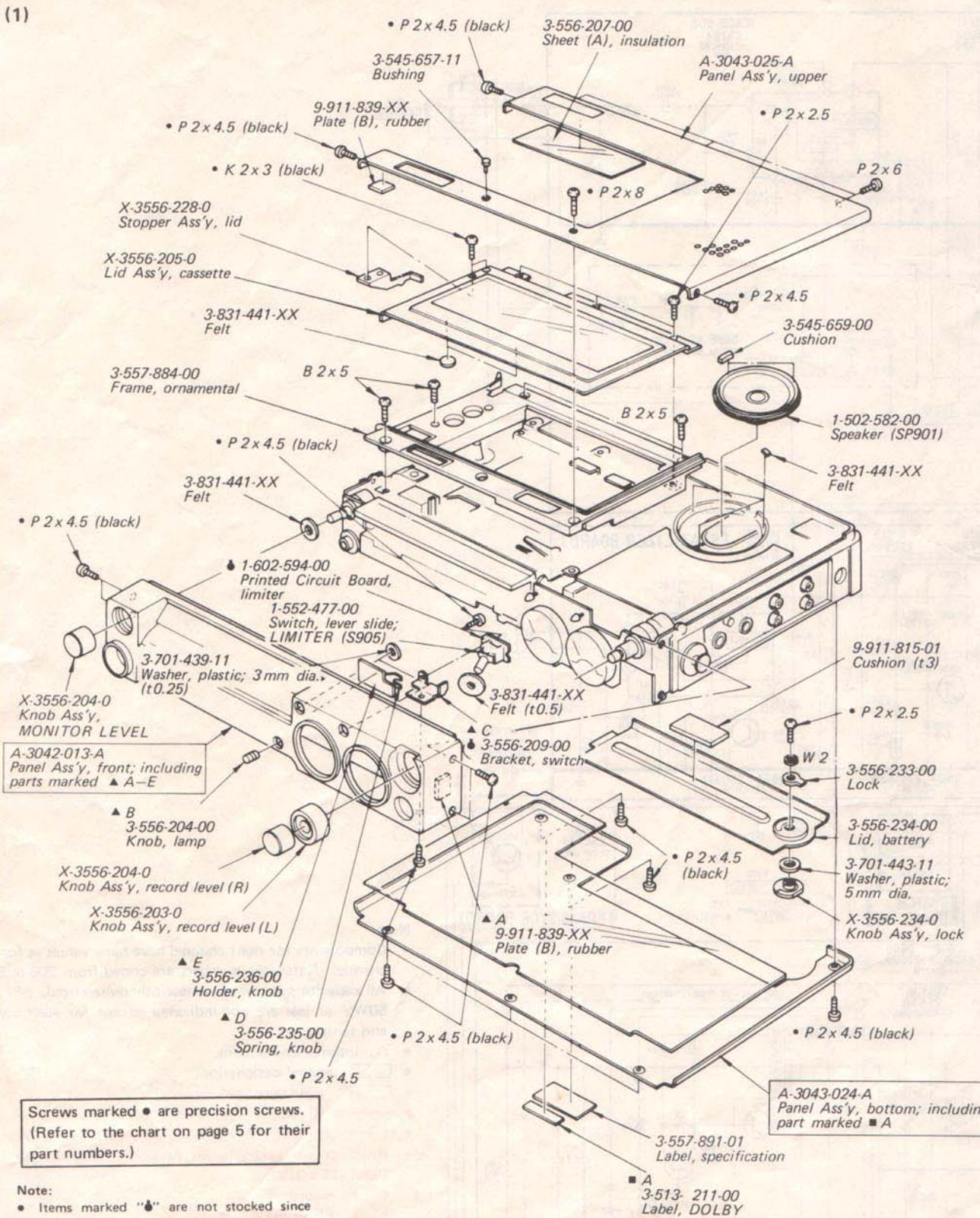
J K L



SECTION 5
EXPLODED VIEWS

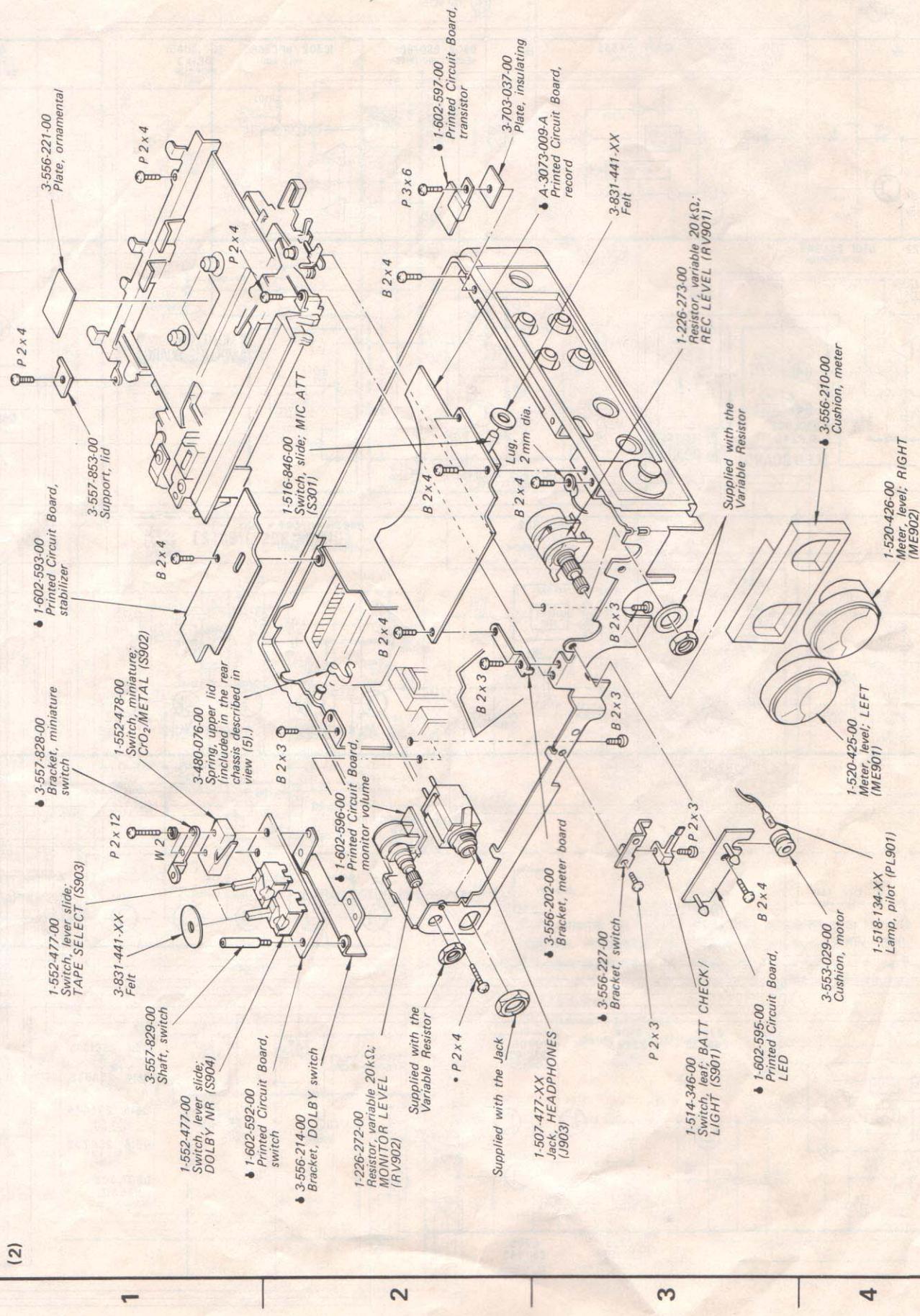
Refer to page 5 for notes on screws.

A **B** **C** **D**

**Note:**

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
(□□T) shows the number of coils in spring.

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

E
D
C
B
A

E

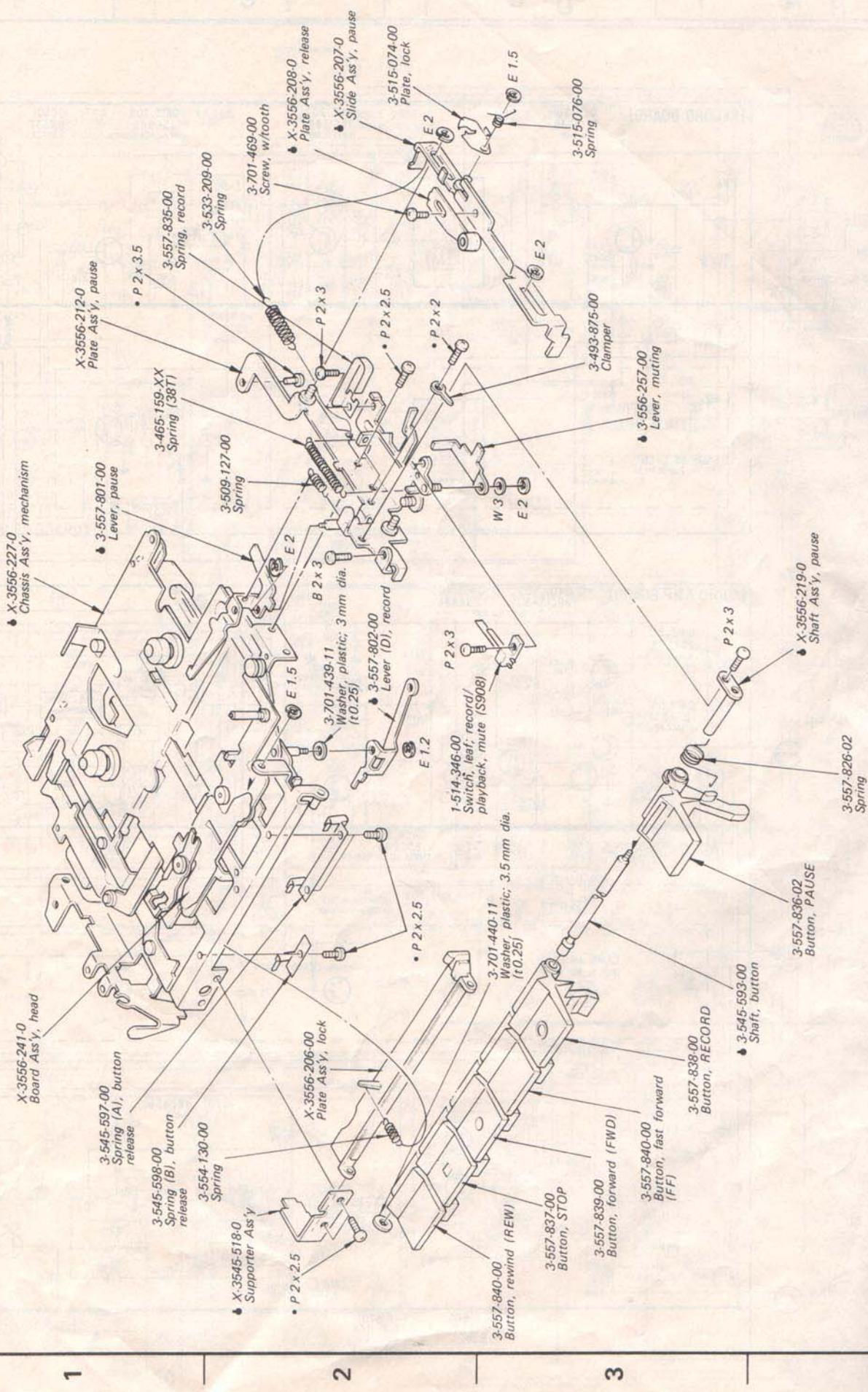
D

C

B

A

(3)



E

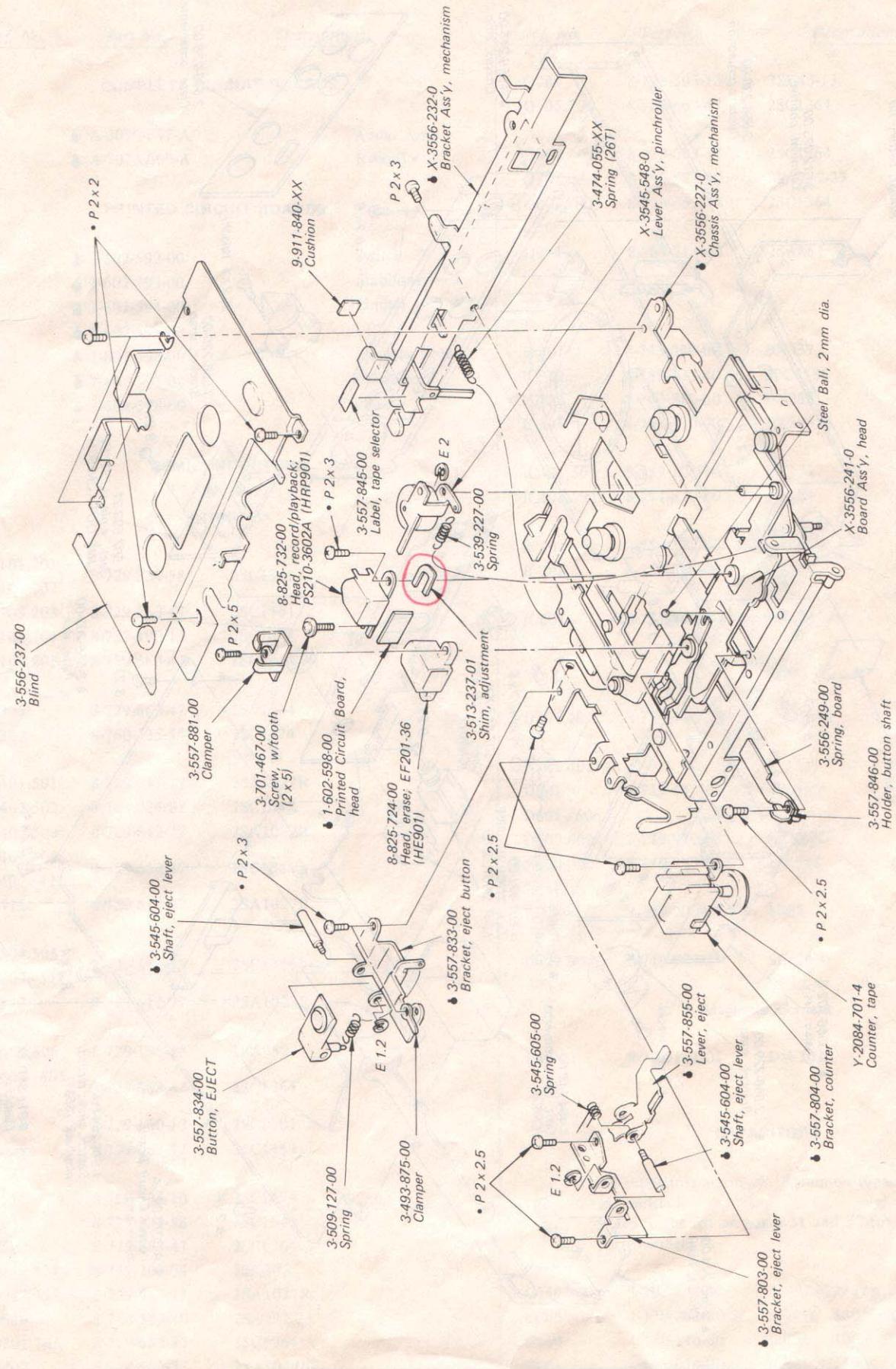
D

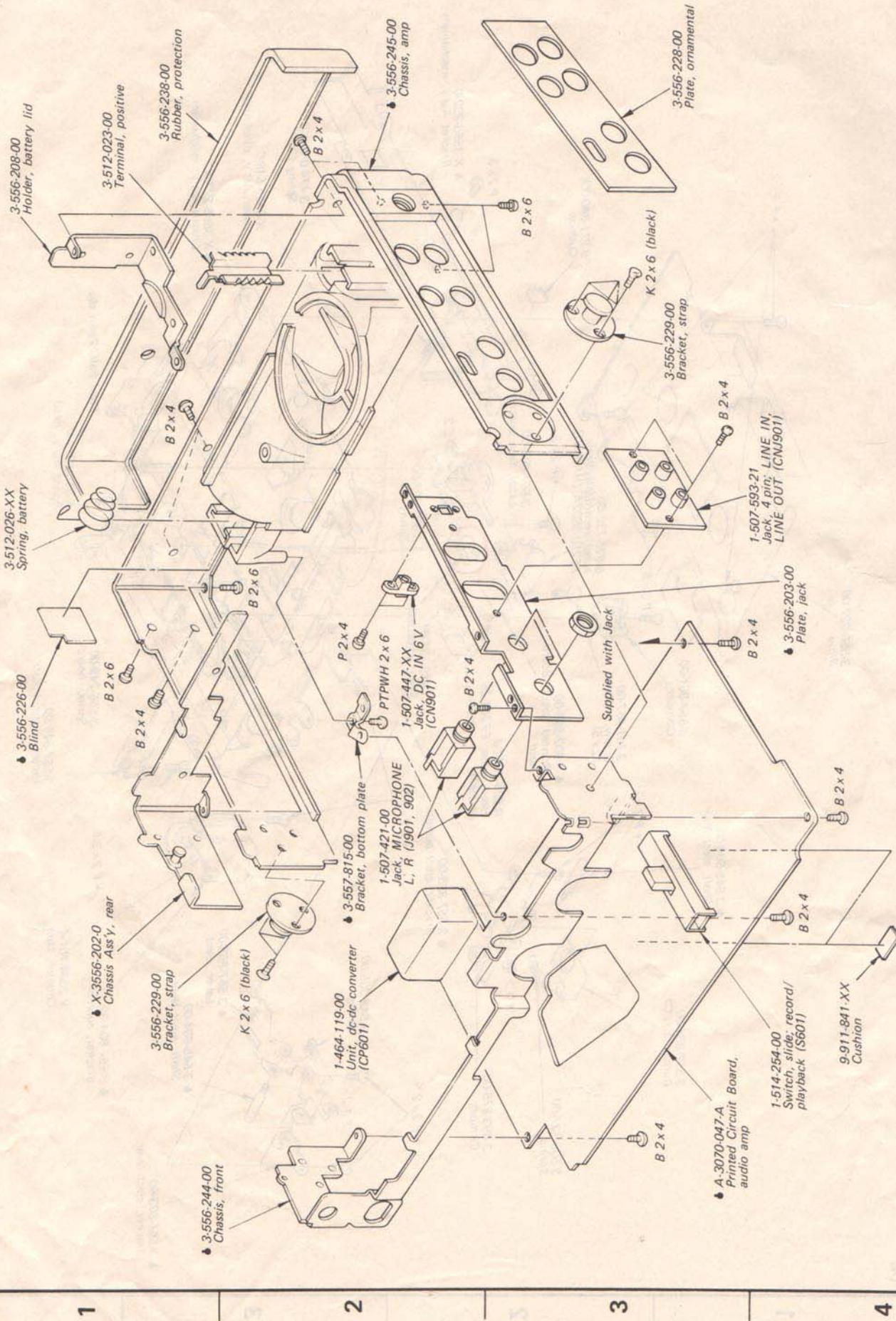
C

B

A

(4)



E
D
C
B
A

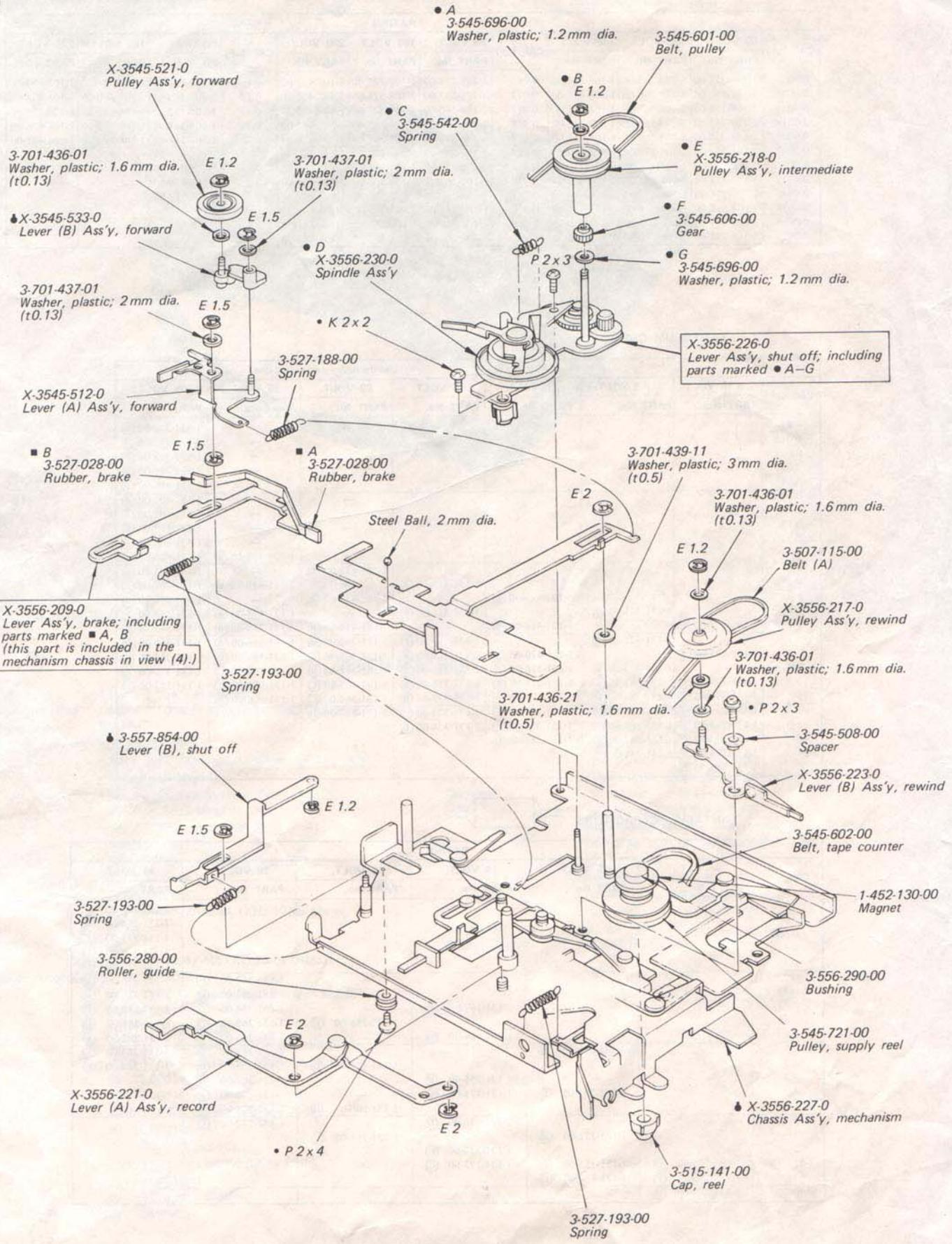
A

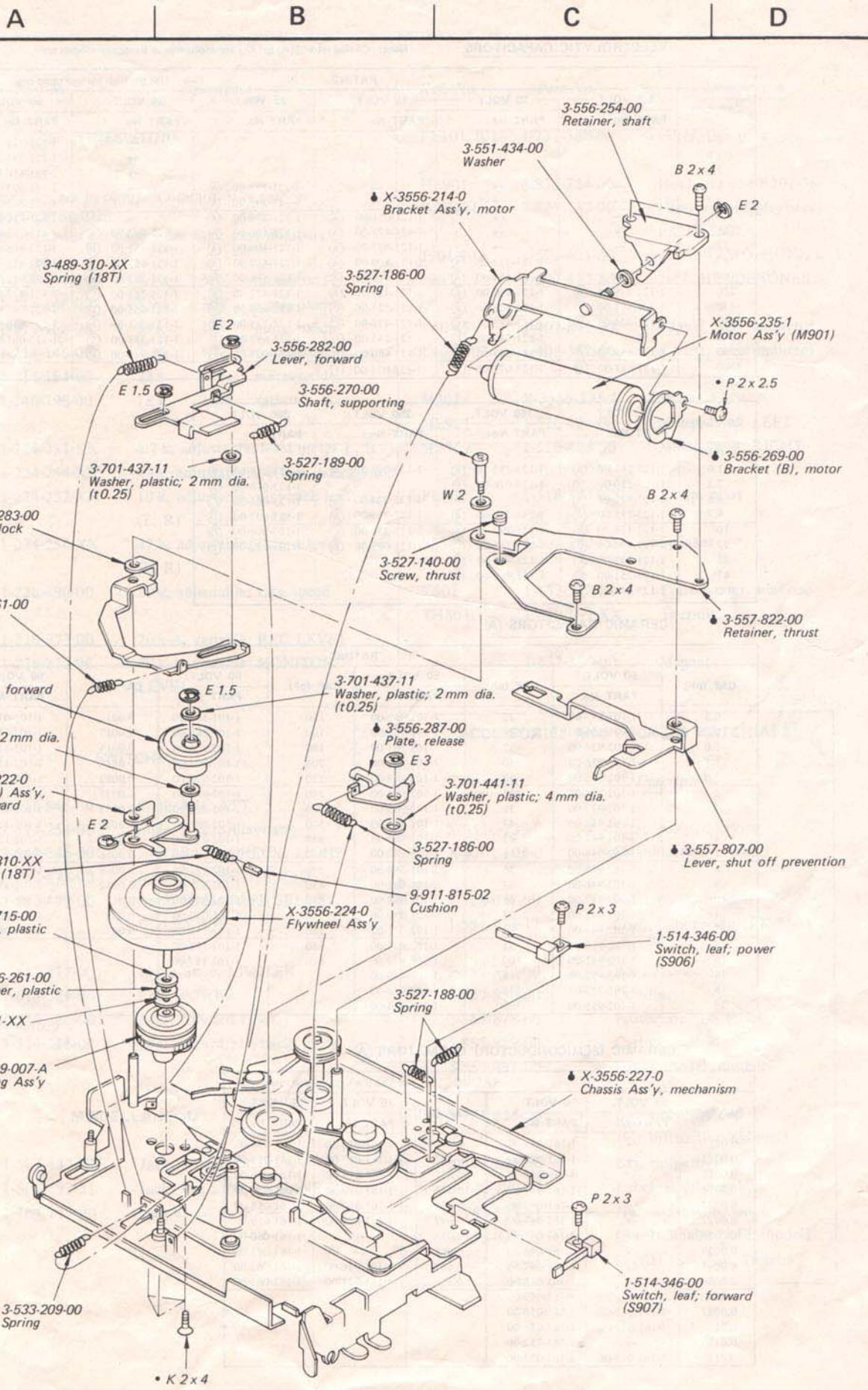
B

C

D

(6)





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					
● A-3070-047-A		Audio Amp	Q704	8-723-303-13	2SK43-13
● A-3073-009-A		Record	Q705,706	8-729-663-47	2SC1364
PRINTED CIRCUIT BOARDS					
● 1-602-592-00		Switch	Q901	8-763-213-00	2SA861
● 1-602-593-00		Stabilizer			ICs
● 1-602-594-00		Limiter	IC301	8-743-370-00	BX337
● 1-602-595-00		LED	IC302	8-759-135-80	μPC358C
● 1-602-596-00		Monitor Volume	IC303	8-743-380-00	BX338
● 1-602-597-00		Transistor	IC304	8-743-350-00	BX335
● 1-602-598-00		Head	IC401,501	8-759-101-74	CX174
SEMICONDUCTORS					
Transistors					
Q101,201	8-729-334-58	2SC1345	IC701	8-759-135-80	μPC358C
Q102,202			IC702	8-750-690-00	CX069
Q103,203	8-729-663-47	2SC1364	IC801	8-751-840-00	CX184
Q104,204	8-729-100-13	2SC2001			Diodes
Q105,205	8-729-663-47	2SC1364	D101,201	8-719-422-21	1T22AM
Q301	8-729-663-47	2SC1364	D301,401		
Q302	8-760-335-10	2SC1474	D501	8-719-815-55	1S1555
Q401,501	8-729-612-77	2SA1027R	D601-606		
Q402,502	8-729-334-58	2SC1345	D607,608	8-719-910-65	HZ6B2L
Q403,503	8-729-612-77	2SA1027R	D609,610	8-719-815-55	1S1555
Q404,405			D801	8-719-200-02	10E2
Q407-411	8-729-663-47	2SC1364	D901,902	8-719-900-24	SLP24B
Q412	8-729-612-77	2SA1027R			Magnetic Element
Q504,505	8-729-663-47	2SC1364	RM701	8-745-101-01	DM-101
Q507-511					CAPACITORS
Q512	8-729-612-77	2SA1027R			
Q601,606	8-729-195-23	2SA952			All capacitors are in μF. Common capacitors are omitted.
Q602-605	8-729-663-47	2SC1364			Refer to the list on pages 31 and 32 for their part numbers.
Q607			C440,540	1-107-253-00	15+18+22+27 p 500V mica
Q608	8-729-100-13	2SC2001	C606	1-130-062-00	0.0056 630V film
Q609	8-729-663-47	2SC1364	C710	1-130-140-00	0.039 100V film
Q610	8-760-335-10	2SC1474	C901	1-102-074-00	0.001 50V ceramic
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			
Q616	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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
RESISTORS		
All resistors are in ohms. Common $\frac{1}{4}$ W carbon resistors are omitted. Refer to the list on page 5 for their part numbers.		
R403,503	1-214-147-00	4.3 k $\frac{1}{4}$ W metal-oxide
R624	1-214-146-00	3.9 k $\frac{1}{4}$ W metal-oxide
R625,626	1-214-168-00	33 k $\frac{1}{4}$ W metal-oxide
R627	1-214-146-00	3.9 k $\frac{1}{4}$ W metal-oxide
R714	1-214-164-00	22 k $\frac{1}{4}$ W metal-oxide
R906,907	1-246-798-00	18 k $\frac{1}{8}$ W 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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
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 μ H, 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 (Ⓐ to Ⓛ) are applicable to European models only.

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

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 Ⓛ	1-123-252-00 Ⓛ	1-123-003-00 Ⓛ	1-121-168-00 Ⓛ
2.2	1-123-250-00 Ⓛ	1-123-026-00 Ⓛ	—	1-123-028-00 Ⓛ
3.3	1-121-995-00 Ⓛ	—	1-123-004-00 Ⓛ	1-123-006-00 Ⓛ
4.7	1-123-255-00 Ⓛ	1-121-246-00 Ⓛ	1-121-759-00 Ⓛ	1-123-007-00 Ⓛ
10	1-121-126-00 Ⓛ	1-121-999-00 Ⓛ	1-123-254-00 Ⓛ	1-123-008-00 Ⓛ
22	1-121-996-00 Ⓛ	1-123-253-00 Ⓛ	1-123-005-00 Ⓛ	1-123-022-00 Ⓛ
33	1-121-997-00 Ⓛ	1-121-757-00 Ⓛ	—	—
47	1-123-251-00 Ⓛ	1-121-919-00 Ⓛ	—	—
100	1-123-084-00 Ⓛ	—	—	—

CERAMIC CAPACITORS Ⓛ

CAP. (pF)	RATING					
	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF) 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 Ⓛ

CAP. (μF)	RATING → : Use the high voltage rated one.				
	25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. 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 (Ⓐ to Ⓛ) are applicable to European models only.

CAP. (μF)	RATING											
	50 VOLT.			100 VOLT.			200 VOLT.			50 VOLT.		
	PART No.	PART No.	PART No.	CAP. (μF)	PART No.	PART No.	PART No.	CAP. (μF)	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					

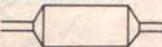


TANTALUM CAPACITORS

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.						
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)	1-131-373-00 (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)	—	—	1-131-272-00 (E)		
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.					
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		—	1-131-255-00 (D)	1-131-259-00 (D)	1-131-268-00 (D)	1-131-284-00 (E)
3.3		1-131-251-00 (E)	1-131-171-00 (D)	—	1-131-269-00 (D)	—
4.7		—	1-131-260-00 (D)	1-131-270-00 (D)	1-131-271-00 (E)	—
6.8		—	1-131-256-00 (D)	1-131-261-00 (E)	1-131-272-00 (E)	—
10		—	1-131-252-00 (D)	—	—	—
15		—	1-131-253-00 (E)	1-131-261-00 (E)	—	—
22	1-131-176-00 (D)	1-131-253-00 (E)	1-131-173-00 (C)	—	—	—
33	1-131-288-00 (F)	1-131-174-00 (D)	—	—	—	—
47	1-131-177-00 (D)	—	—	—	—	—
100	—	—	—	—	—	—

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