

# 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 <ul style="list-style-type: none"><li>• With TYPE IV cassette (Sony METALLIC) 58dB at peak level</li><li>• With TYPE III cassette (Sony DUAD) 59dB at peak level</li><li>• With TYPE II cassette (Sony JHF) 56dB at peak level</li><li>• With TYPE I cassette (Sony BHF) 53dB at peak level</li></ul> 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 <ul style="list-style-type: none"><li>• With TYPE IV cassette (Sony METALLIC) 20 - 19,000 Hz 30 - 17,000 Hz (<math>\pm 3</math>dB) 30 - 13,000 Hz (<math>\pm 3</math>dB, 0 VU recording)</li><li>• With TYPE III cassette (Sony DUAD) 20 - 19,000 Hz 30 - 17,000 Hz (<math>\pm 3</math>dB)</li><li>• With TYPE II cassette (Sony JHF) 20 - 18,000 Hz 30 - 15,000 Hz (<math>\pm 3</math>dB)</li><li>• With TYPE I cassette (Sony BHF) 20 - 17,000 Hz 30 - 14,000 Hz (<math>\pm 3</math>dB)</li></ul>
Wow and flutter	0.06% (WRMS)

Inputs	Microphone inputs (phone jacks) sensitivity 0.25mV (-70dB) for a low-impedance microphone Line inputs (phono jacks) sensitivity 77.5mV (-20dB) input impedance more than 47 kilohms
Outputs	Line outputs (phono jacks) output level 0.435V (-5dB) at load impedance 47 kilohms suitable load impedance more than 10 kilohms Headphone output max. power output 20mW (at load impedance 8ohms) Approx. 5cm
Speaker Power output	200mW (EIAJ/DC)

— Continued on page 2 —

0dB = 0.775V

# SONY<sup>®</sup>

## SERVICE MANUAL



**General**

**Power requirements** 3V 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

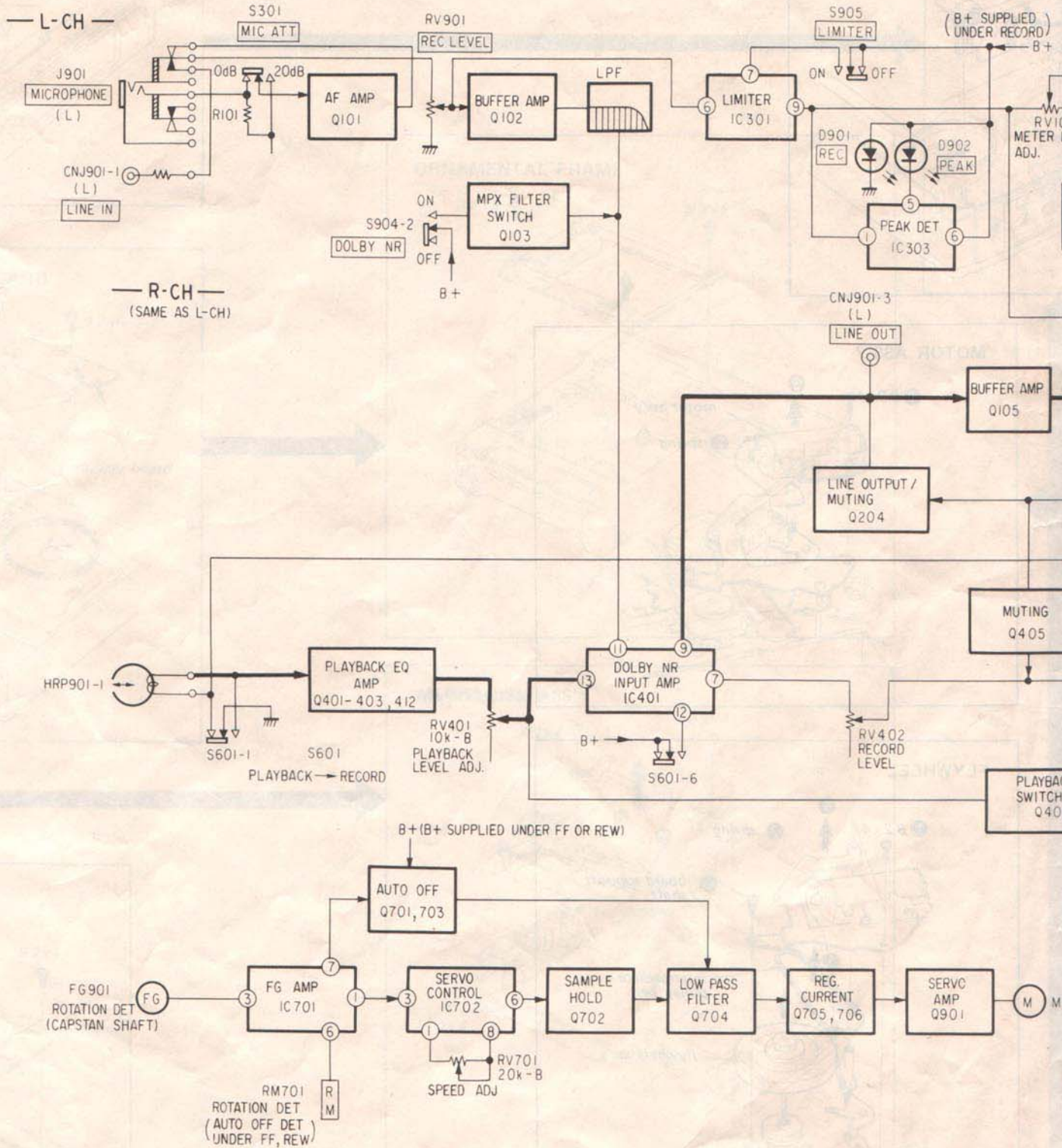
**Dimensions** 237×48×168 mm (w/h/d)  
including projecting parts and controls

**Weight** 1.7 kg (incl. batteries)

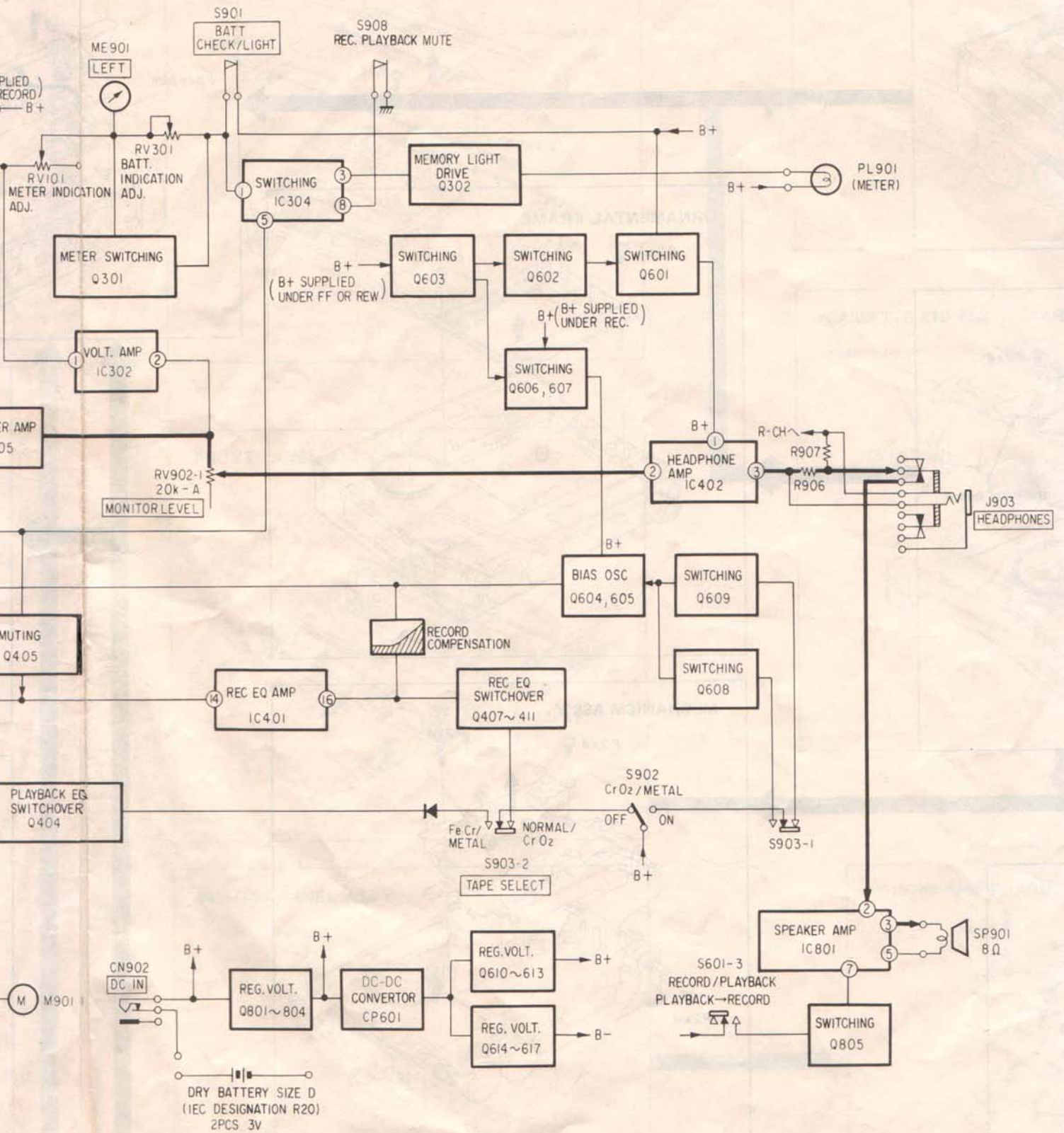


# SECTION 1 OUTLINE

## 1-1. BLOCK DIAGRAM









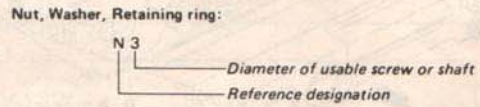
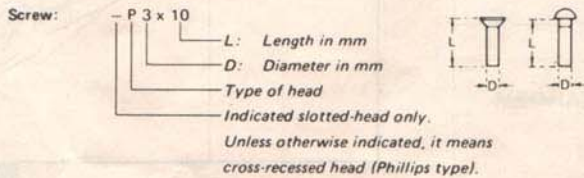
Use the charts together with the exploded views (Page 22 to 28).

**DIMENSIONS AND PART NO. OF PRECISION SCREWS**

Type	⊕ P (Pan-head screw)			⊕ K (Flat-countersunk-head screw)		
	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**



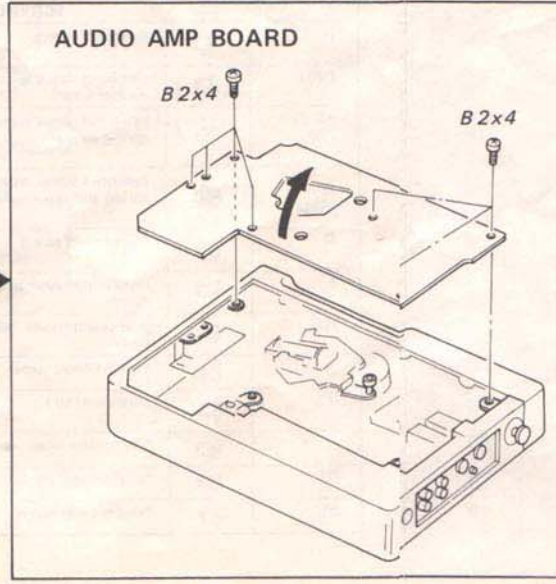
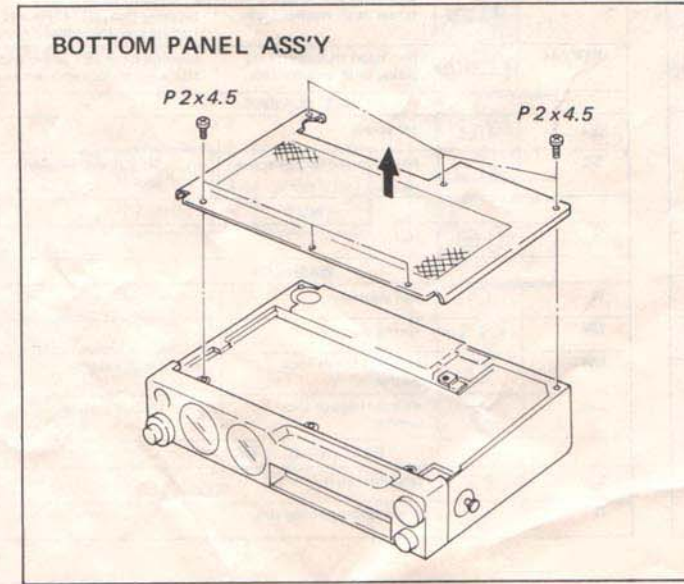
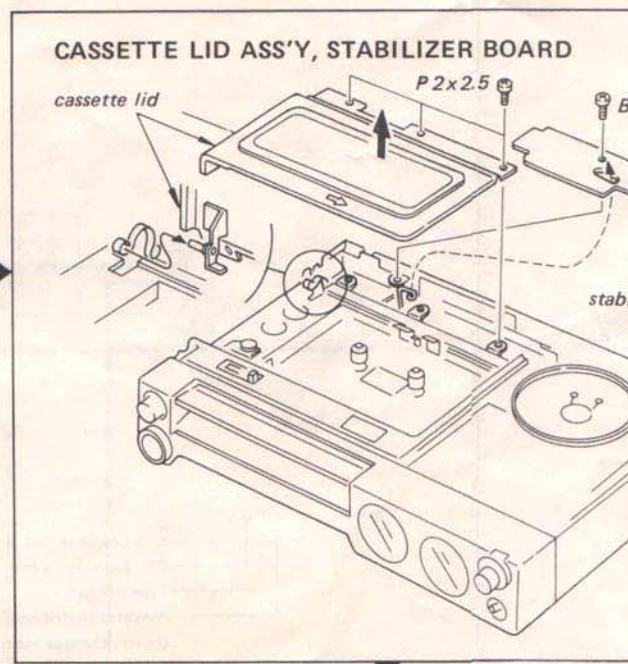
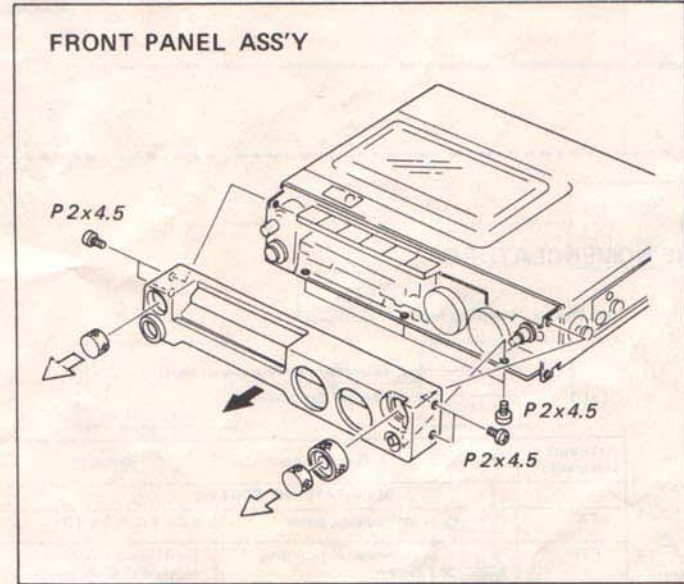
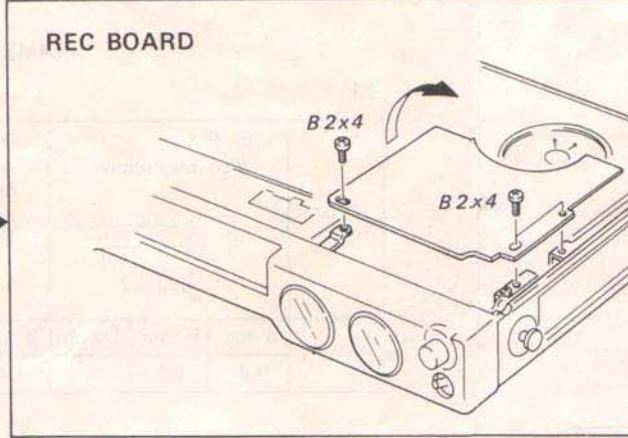
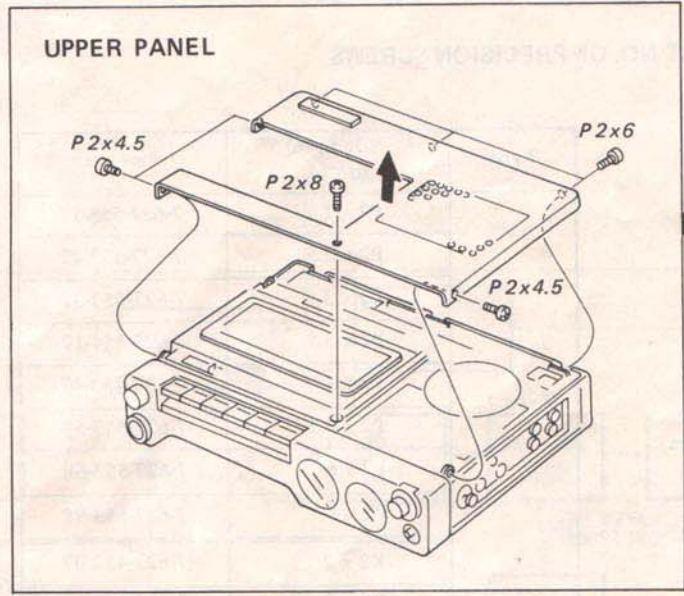
Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for 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
<b>SELF-TAPPING SCREWS</b>			
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
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	



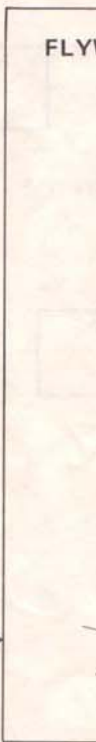
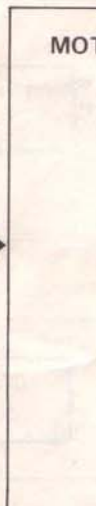
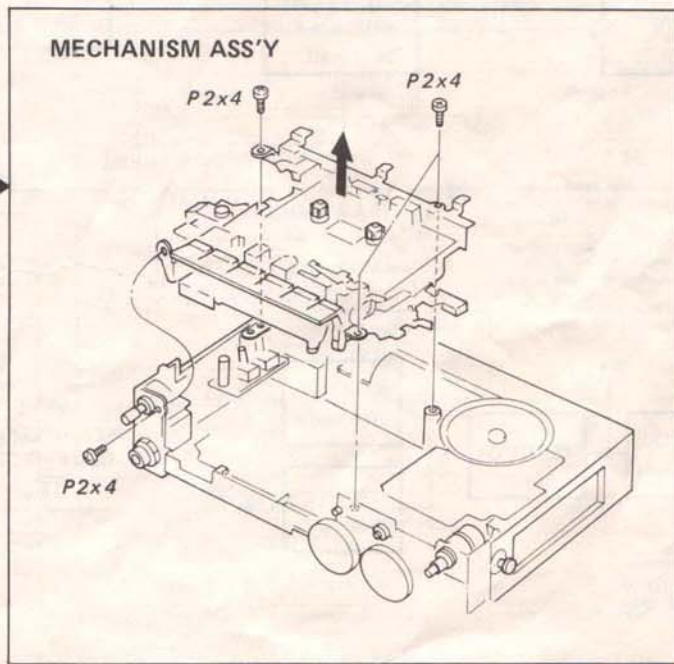
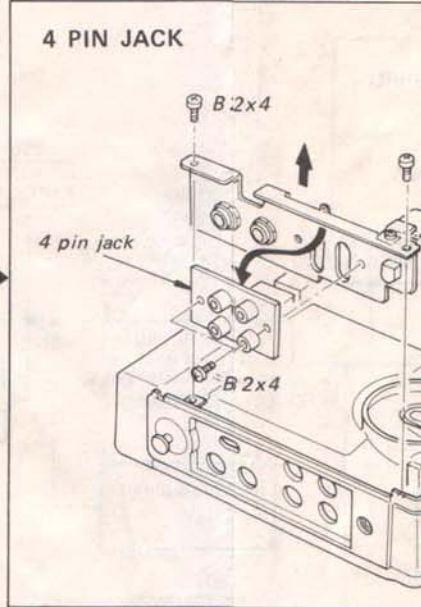
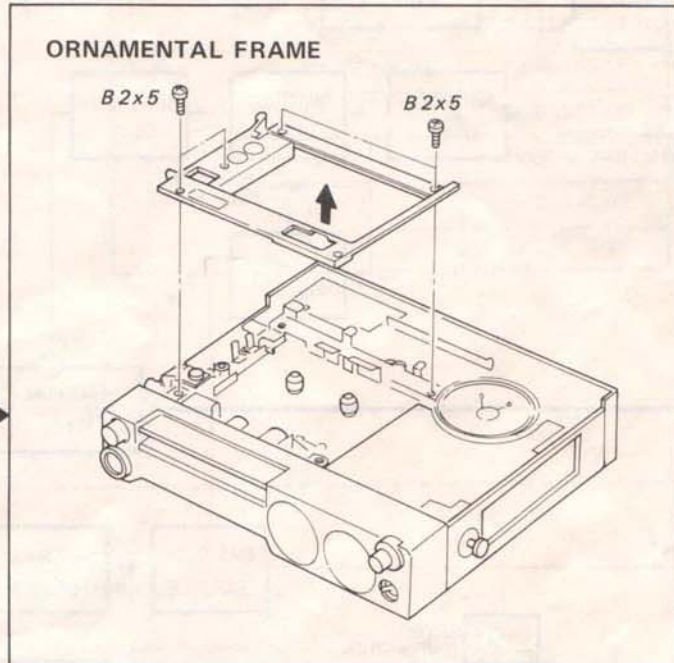
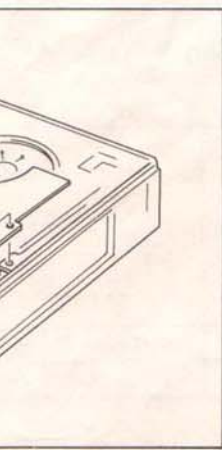
**SECTION 2  
DISASSEMBLY**

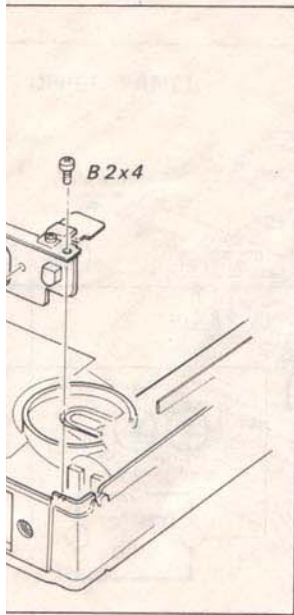
Note: Follow the disassembly procedure in the numerical order given.



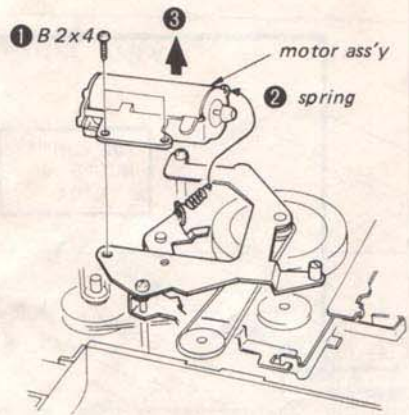


given.

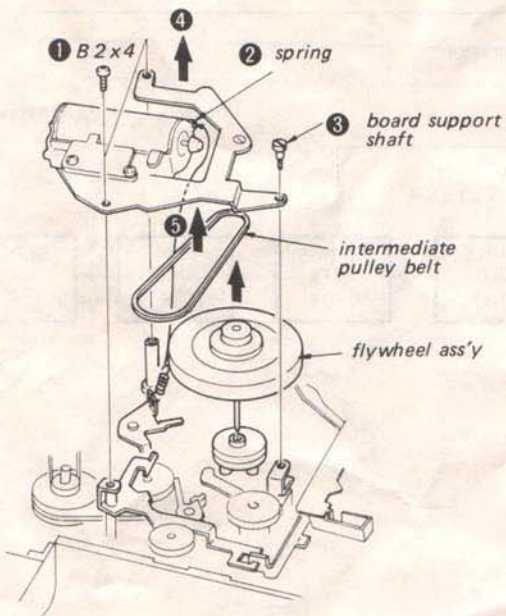




MOTOR ASS'Y



FLYWHEEL



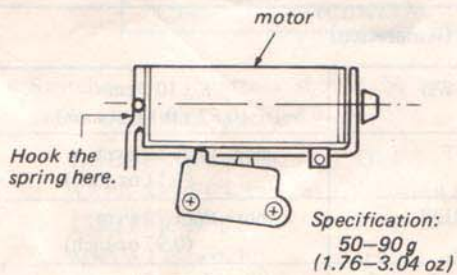


## SECTION 3 ADJUSTMENTS

### 3-1. Mechanical Adjustments

#### Motor Pressure Measurement

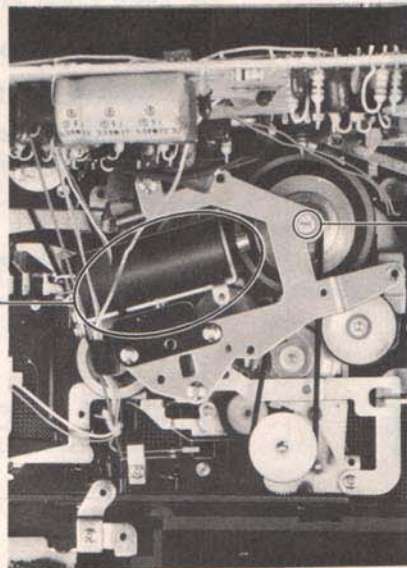
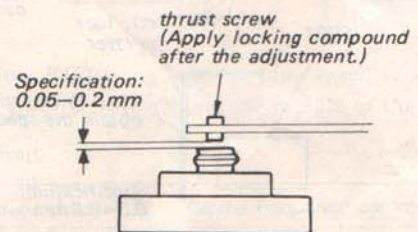
Erect the set in a perpendicular condition and push the forward (FWD) button. Pull the spring scale hooked in the position shown below. Slowly touch the flywheel with the motor pulley and read the spring scale just when the flywheel starts rotating.



#### Flywheel Thrust Play Adjustment

Slowly tighten the thrust screw with a screwdriver. Then loosen the thrust screw and adjust the screw position  $1/5$ - $3/5$  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.)

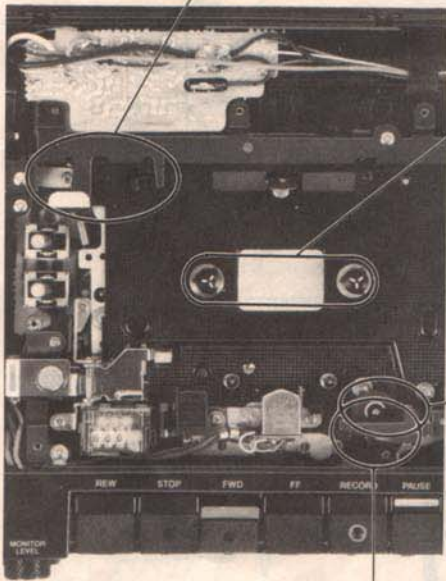
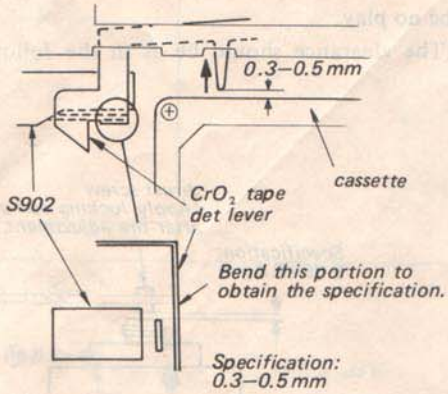




**CrO<sub>2</sub> Tape Det Lever Adjustment**

Install a cassette tape (besides CrO<sub>2</sub>) and push the CrO<sub>2</sub> tape det lever in the direction of the arrow. Confirm that the clearance between the CrO<sub>2</sub> tape det lever and the cassette is 0.3 mm–0.5 mm.

Return the CrO<sub>2</sub> tape det lever in the original position and confirm that S902 is OFF. (Be sure that the miniature switch lever is pushed.)



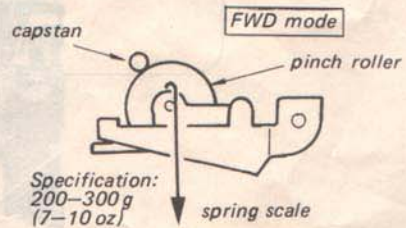
**Torques (Reference)**

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.



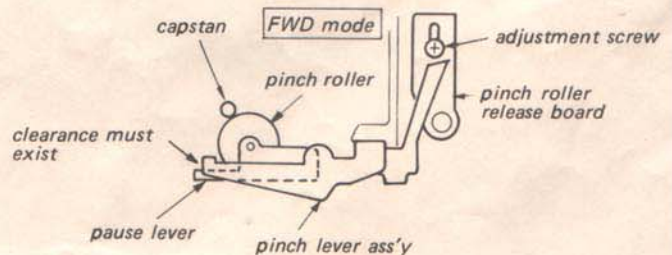
**Pause Timing Adjustment**

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 <sub>2</sub>
CS-25	NORMAL/CrO <sub>2</sub>
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<sub>2</sub>  
 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 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	8 Ω
output level	0.44 V (-5 dB)	0.39 V (-6 dB)

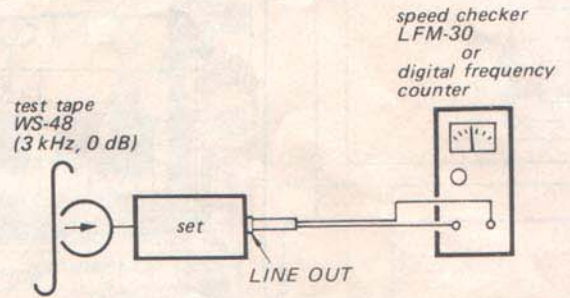
Tape Speed Adjustment

Setting:

MONITOR LEVEL : mechanical mid

Procedure:

Mode: playback



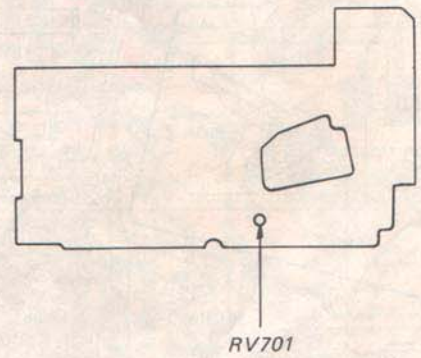
Adjust RV701 so that the tape speed is within the specification around the middle of the tape.

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**

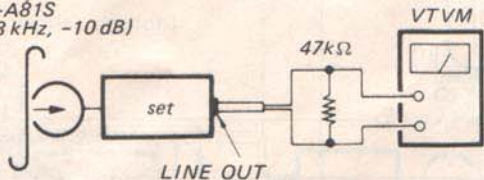
Setting:

MONITOR LEVEL : mechanical mid

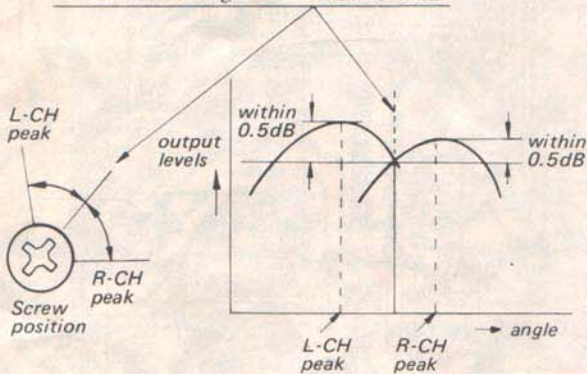
Procedure:

1. Mode: Playback

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

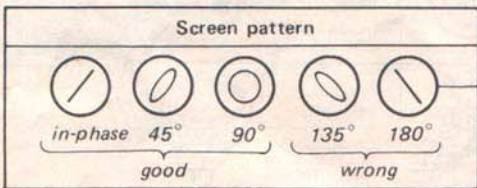
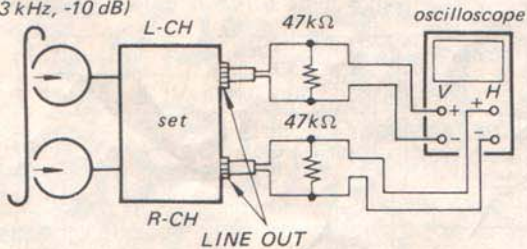


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.



3. Phase Check  
Mode: playback

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

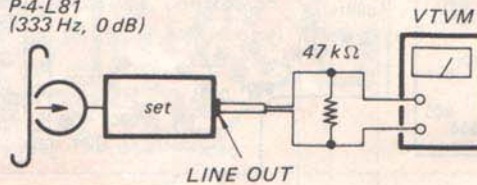


**Playback Level Adjustment**

Procedure:

1. Mode: Playback

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



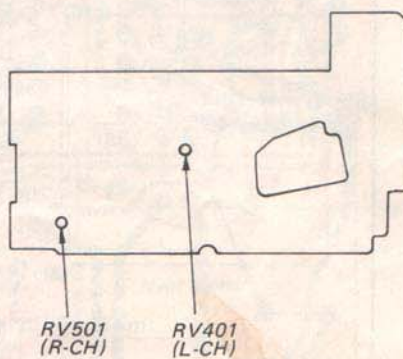
2. Adjust RV401 (L-CH) and RV501 (R-CH) so that the LINE OUT level is within the specification.

Specification:

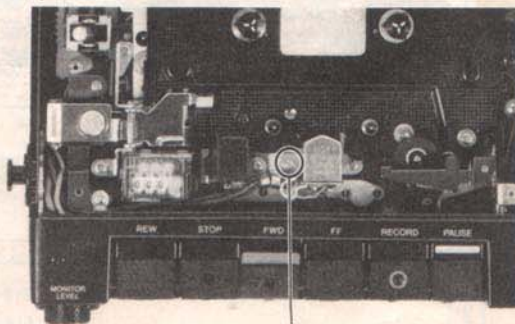
0.55 V (-3 dB)

Adjustment Location:

- audio amp board -  
(conductor side)



Adjustment Location:



adjustment screw

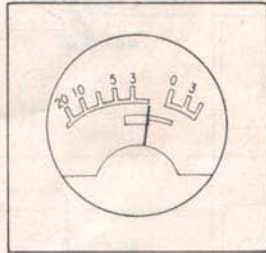


**Battery Indicator Calibration Adjustment**

**Procedure:**

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

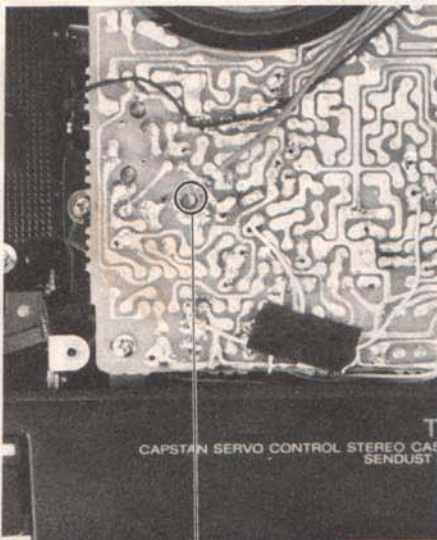
Adjust RV301 so that the pointer of the level meter is positioned as shown below when BATT CHECK/LIGHT button is pushed.



level meter

**Adjustment Location:**

— record board —



RV301

**Record Bias Adjustment**

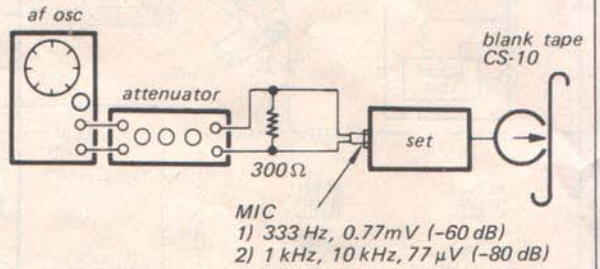
**Setting:**

TAPE SELECT switch: NORMAL/CrO<sub>2</sub>  
 LIMITER switch: OFF

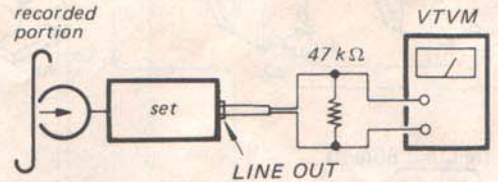
Record 333Hz signal and adjust the REC LEVEL control to obtain -5dB LINE OUT level.

**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

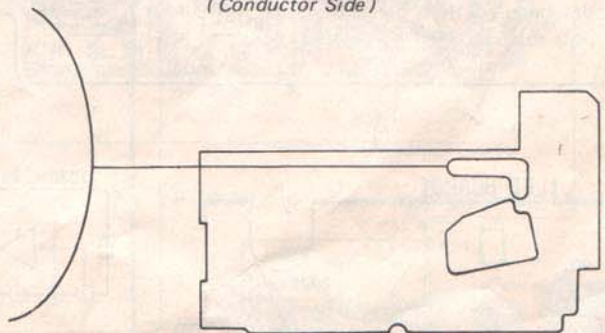
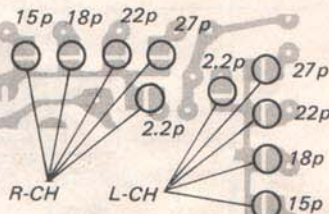
When the 10 kHz output is low  
 → decrease the capacitance

**Specification:**

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

**Adjustment Location:**

— audio amp board —  
 (Conductor Side)





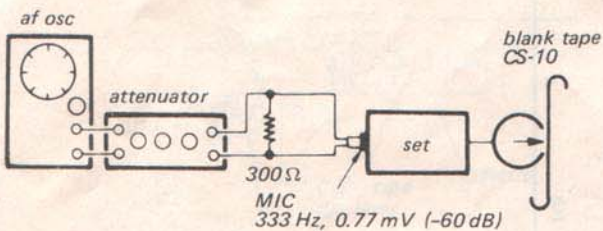
**Record Level Adjustment**

**Setting:**

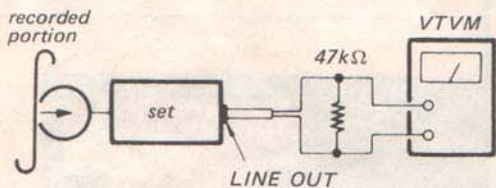
- MIC ATT switch: 0 dB
- LIMITER switch: OFF
- TAPE SELECT switch: NORMAL/CrO<sub>2</sub>
- REC LEVEL control: standard record  
(See page 11.)

**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

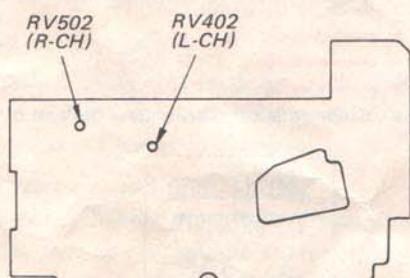


5. Repeat steps 2 and 3 and adjust RV402 (L-CH), RV502 (R-CH) so that the LINE OUT level is -5 dB.
6. Repeat steps 1 to 4 also for CS-25 and obtain the specified value.
7. Install CS-30 and set the TAPE SELECT switch to FeCr/METAL. Then adjust as in step 6.
8. Install CS-40 and adjust as in step 6.

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

**Adjustment Location:**

— audio amp board —



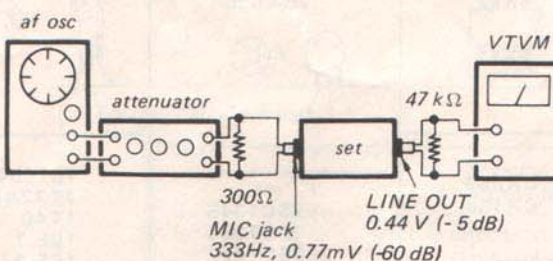
**Meter Level Adjustment**

**Setting:**

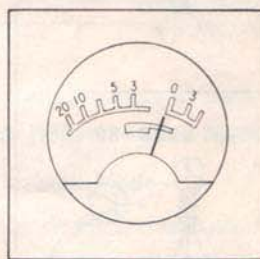
- MIC ATT switch: 0 dB
- LIMITER switch: OFF
- REC LEVEL control: standard record  
(See page 11.)

**Procedure:**

1. Mode: record



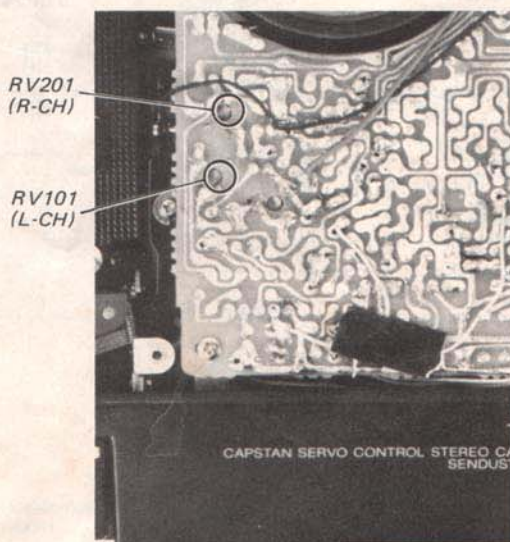
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that the pointer of the level meter points 0dB as shown below.



level meter

**Adjustment Location:**

— record board —



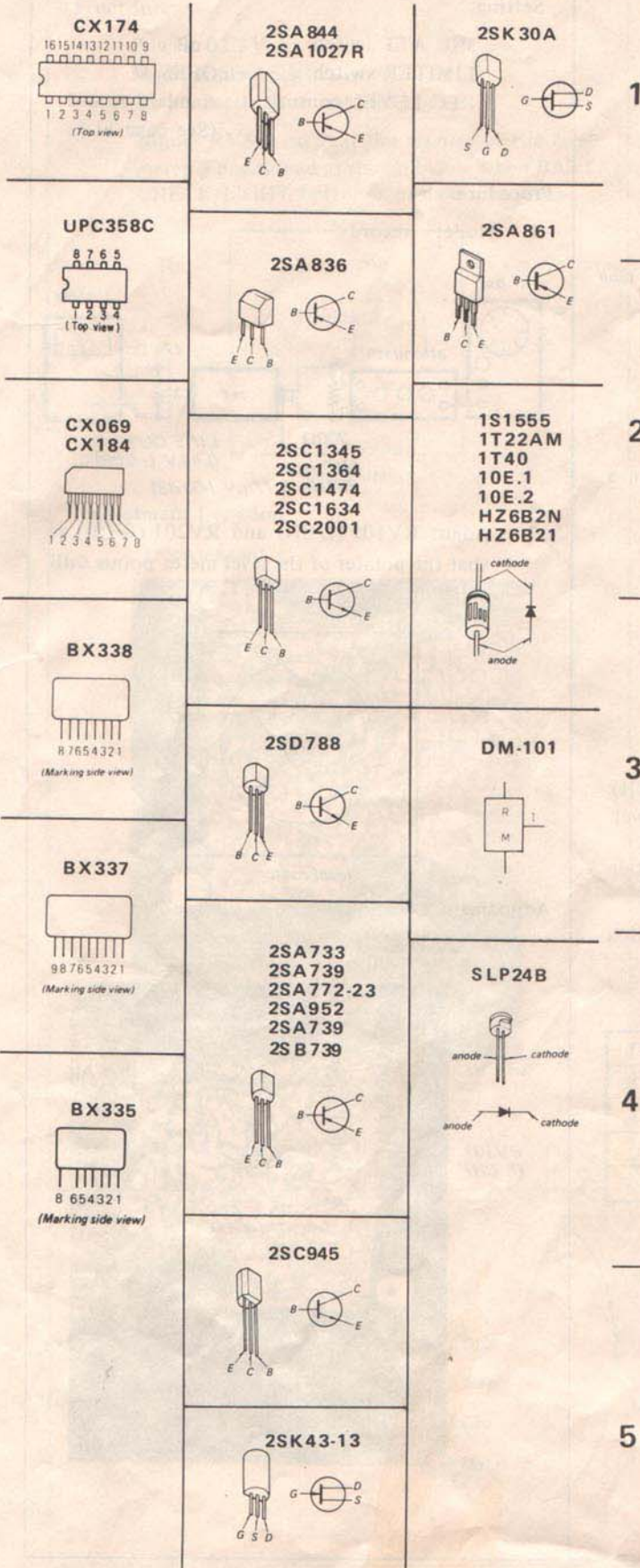


SECTION 4  
DIAGRAMS

A

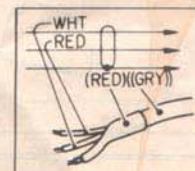
B

4-1. MOUNTING DIAGRAM



Note:

- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.
- : part mounted on the conductor side.
- (with red dot) : B+ pattern
- (with brown dot) : B- pattern
- (with red arrow) : signal path
- (with red arrow) : L-CH signal path
- (with red arrow) : R-CH signal path
- (with red arrow) : R-CH signal path
- : Color code of sleeving over the end of the jacket.









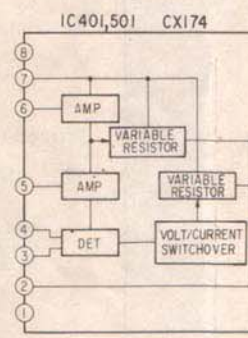
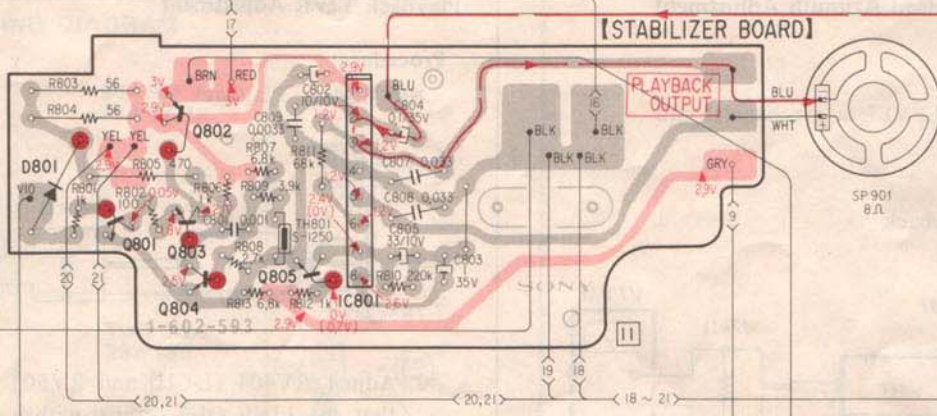
G

H

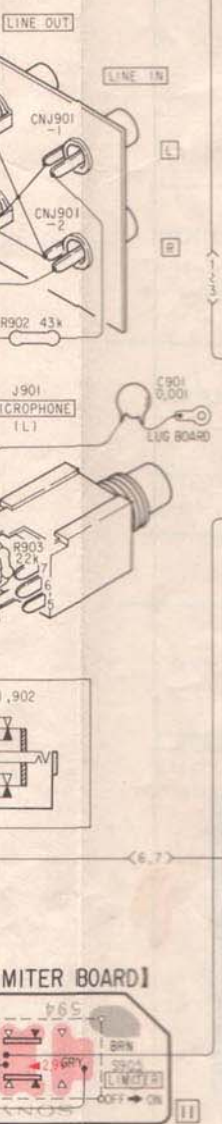
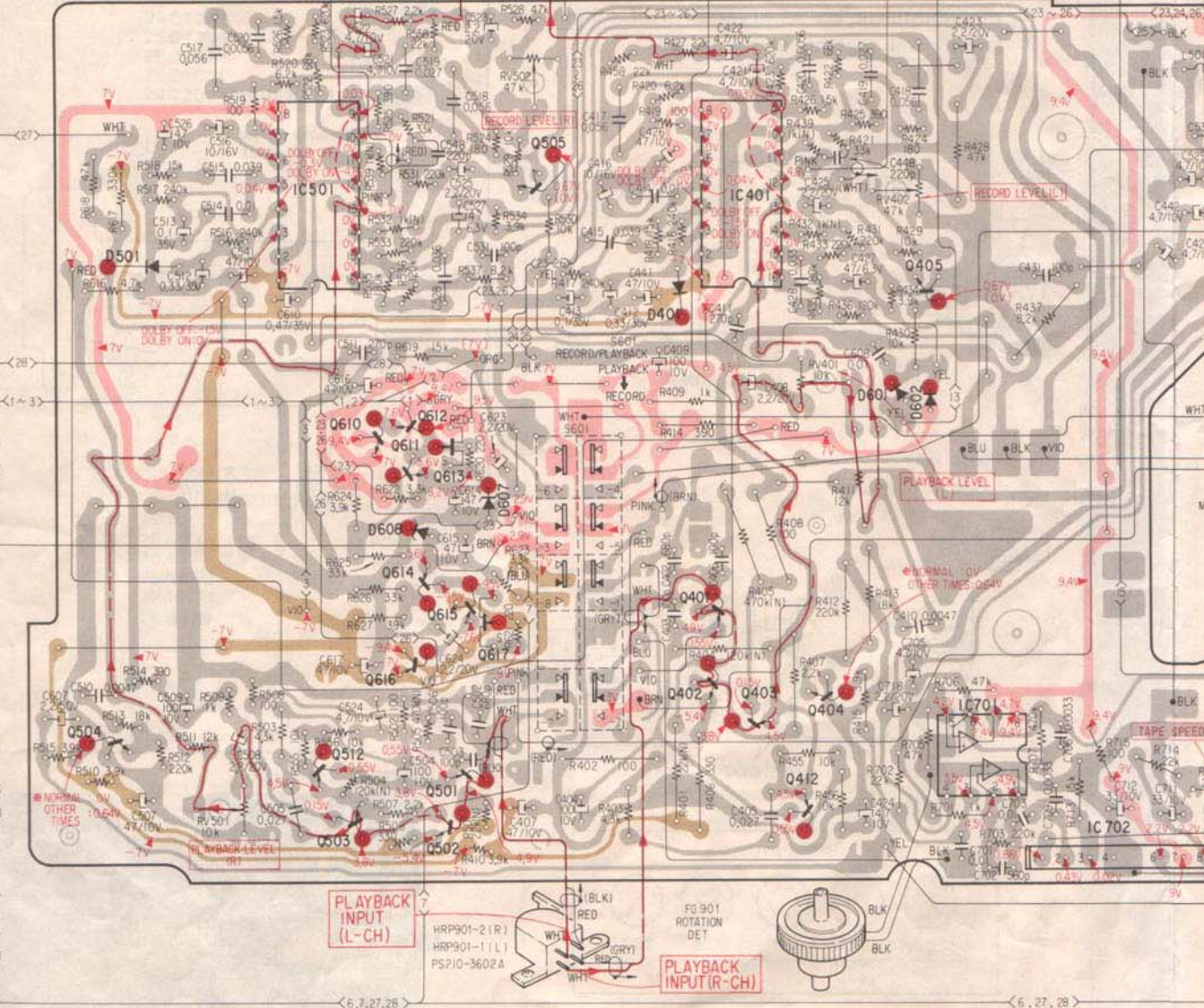
I

J

D	Q, IC
	802
801	IC801
801	803
	805
	804



[AUDIO AMP BOARD]



	IC501	610	612	613	505	IC401	405	
Q		512	611	614		401	404	IC701
IC	504	503	616	615	617	402	412	IC702
D	501		608	607		401	601	602



# TC-D5M

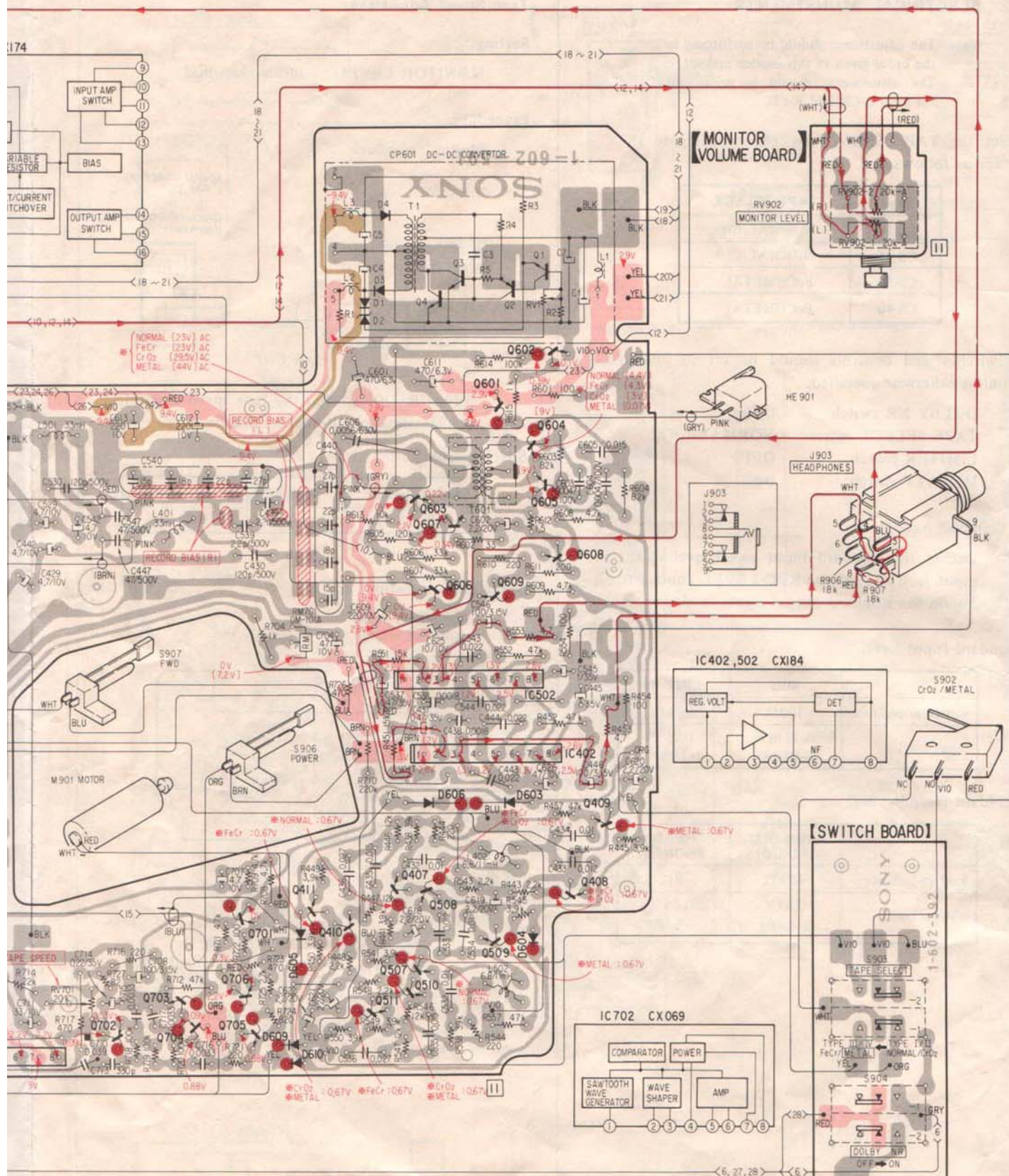
K

L

M

N

174



1

2

3

4

5

702	703	704	701	706	705	411	410	507	508	511	510	603	606	609	604	605	608	602	Q
																			IC
			605	609	610				606			603		604					D







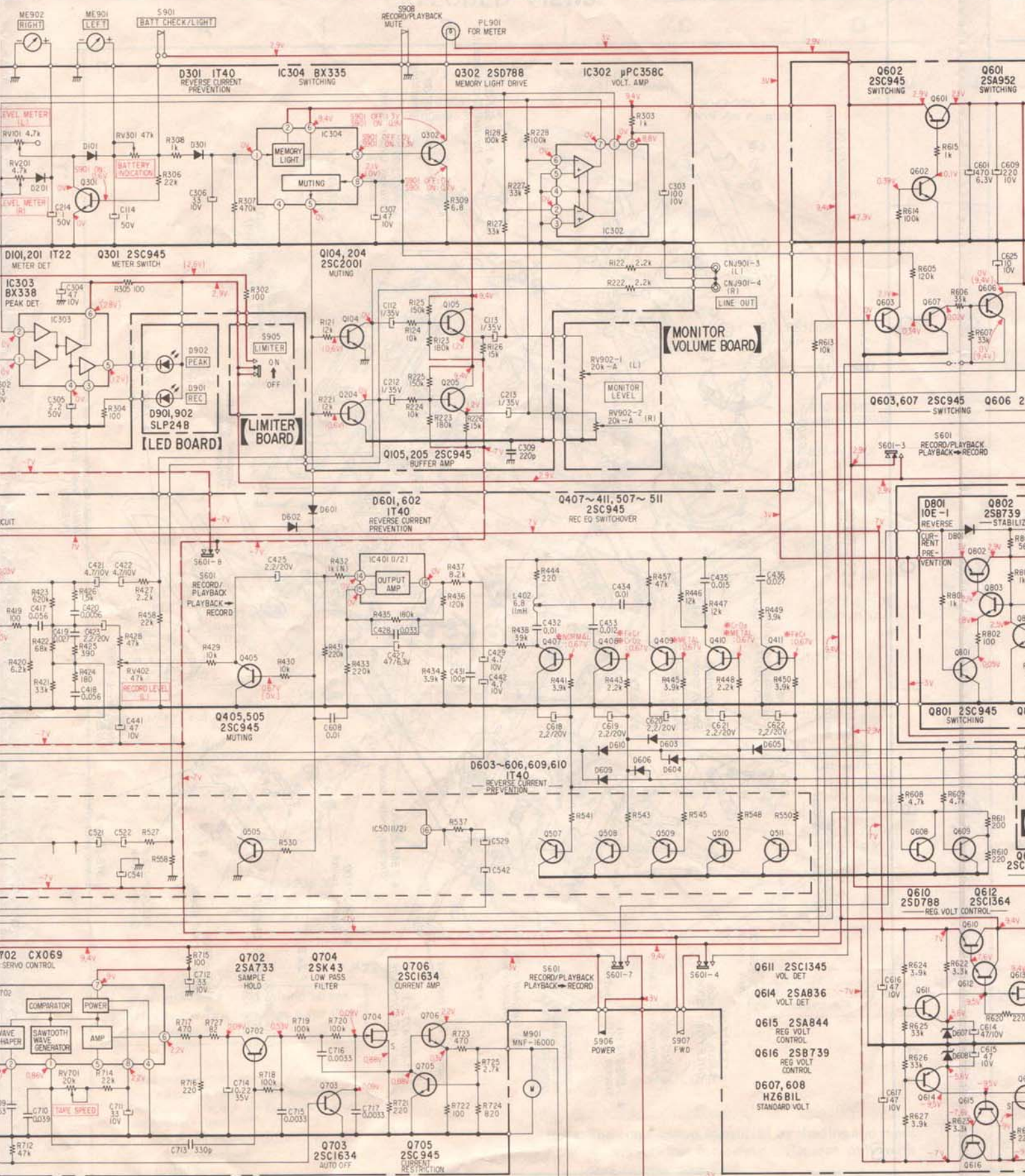
# TC-D5M

E

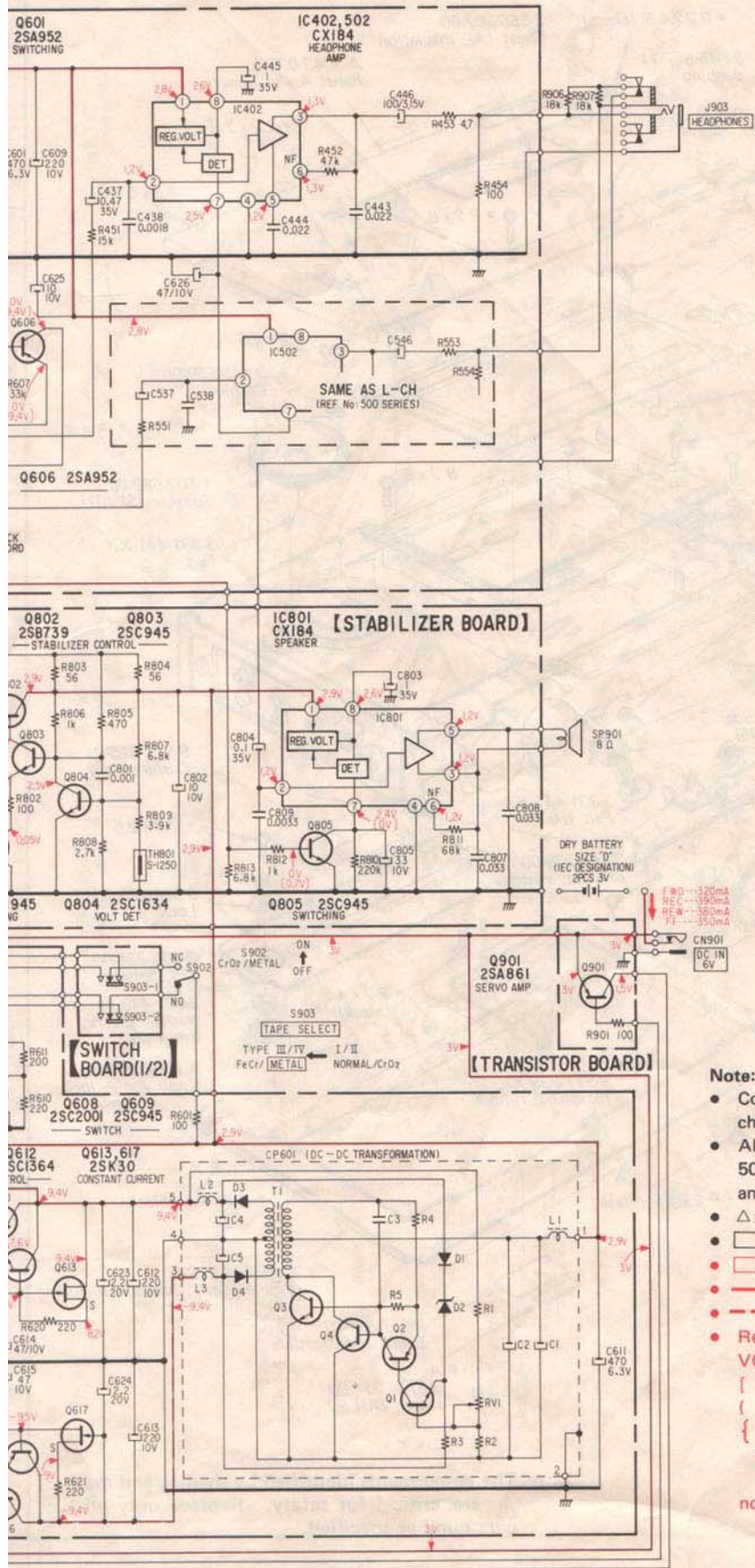
F

G

H







- Note:**
- Components for right channel have same values as for left channel. Reference numbers are coded from 200 or 500.
  - All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{mF}$  50WV or less are not indicated except for electrolytics and tantalum.
  - $\Delta$ : internal component.
  - $\square$ : panel designation.
  - $\square$ : adjustment for repair.
  - $\bullet$ : B+ bus.
  - $\circ$ : B- bus.
  - Readings are taken under no-signal conditions with a VOM (20 k $\Omega$ /V).  
 [ ]: record  
 ( ): FF or REW  
 { } : record/S905 (LIMITER) ON  
 \* : Value when S902 CrO<sub>2</sub>/METAL, S903 (TAPE SELECT) are selected.  
 no mark: playback













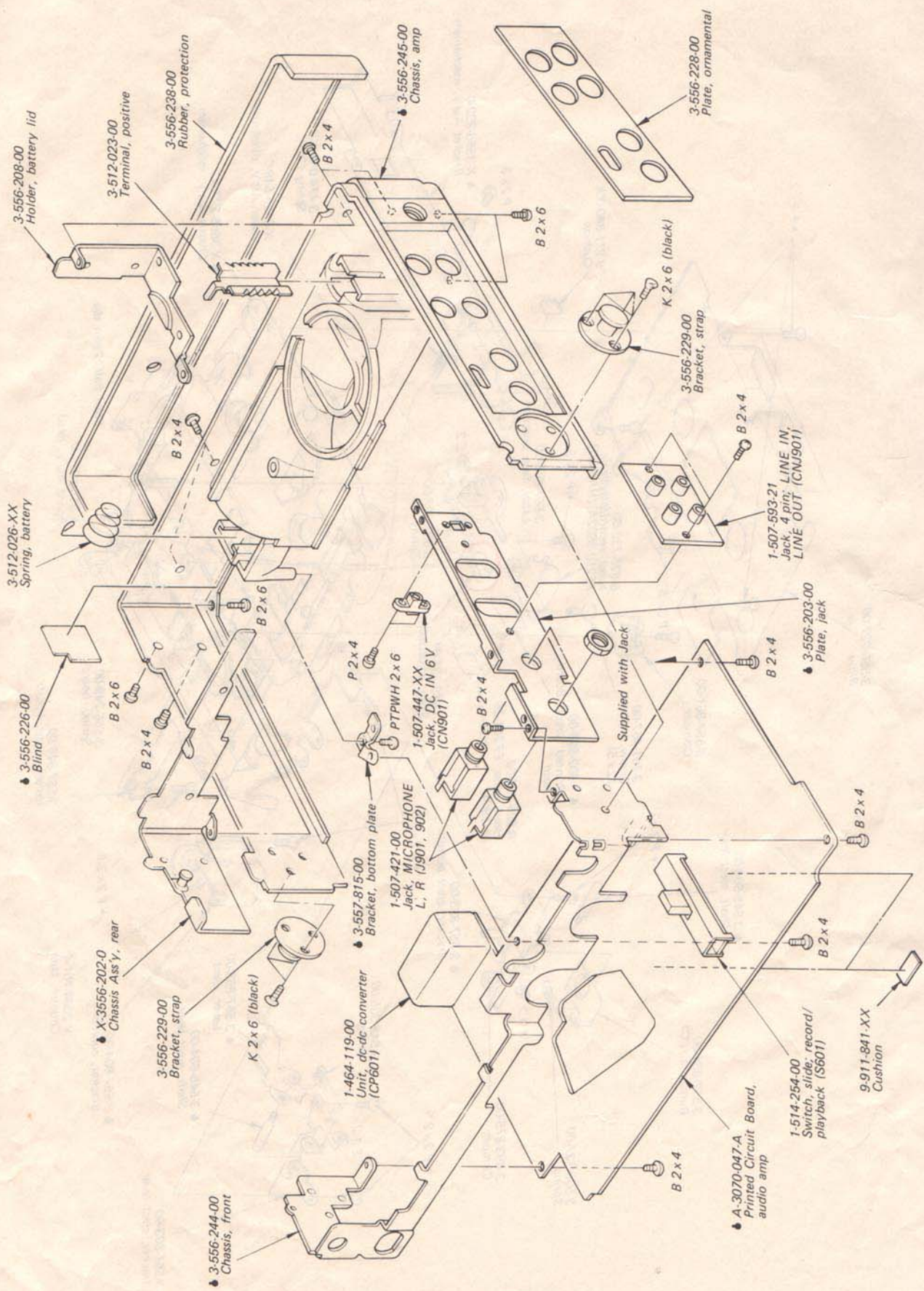






A B C D E

(5)



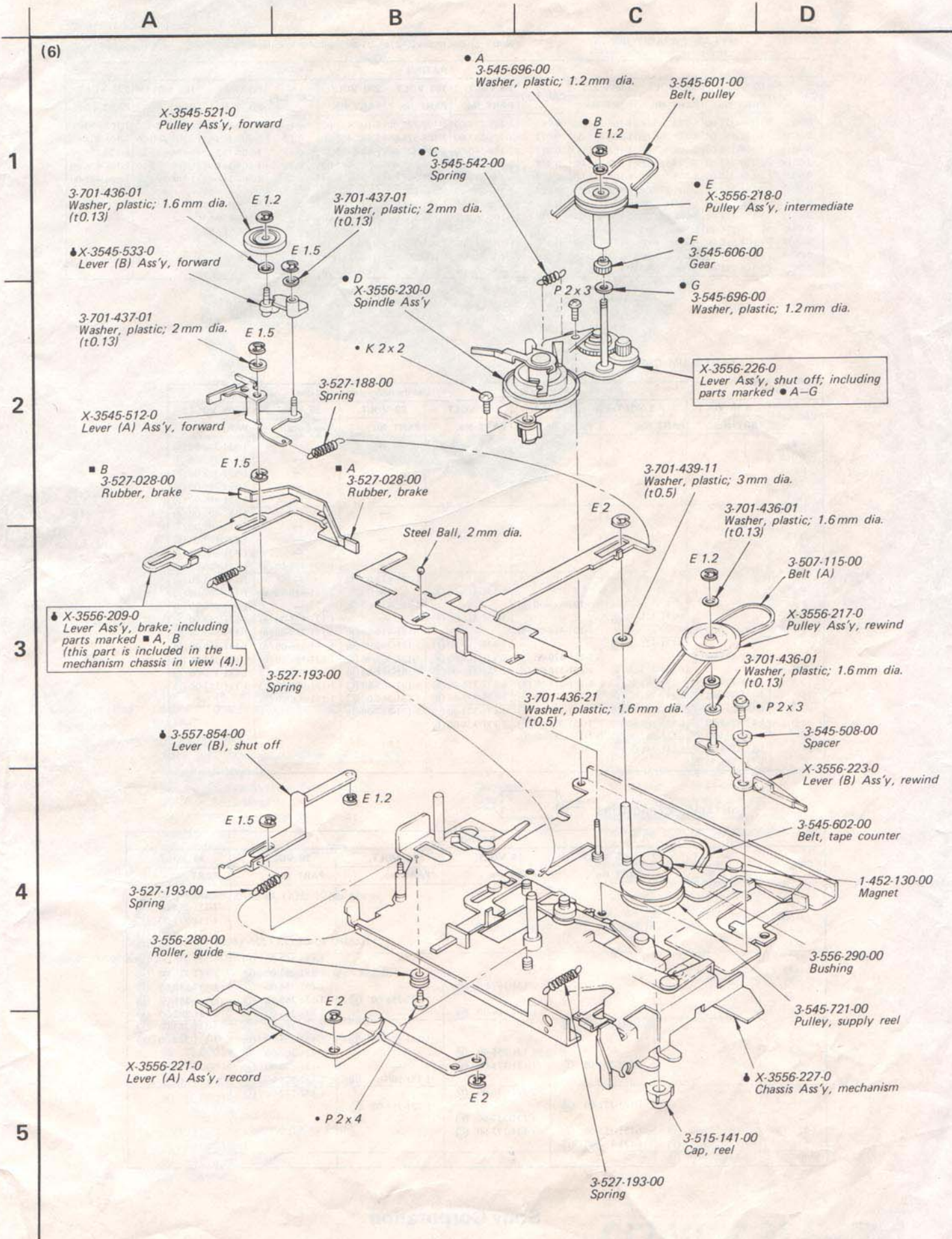
1

2

3

4







A B C D

(7)

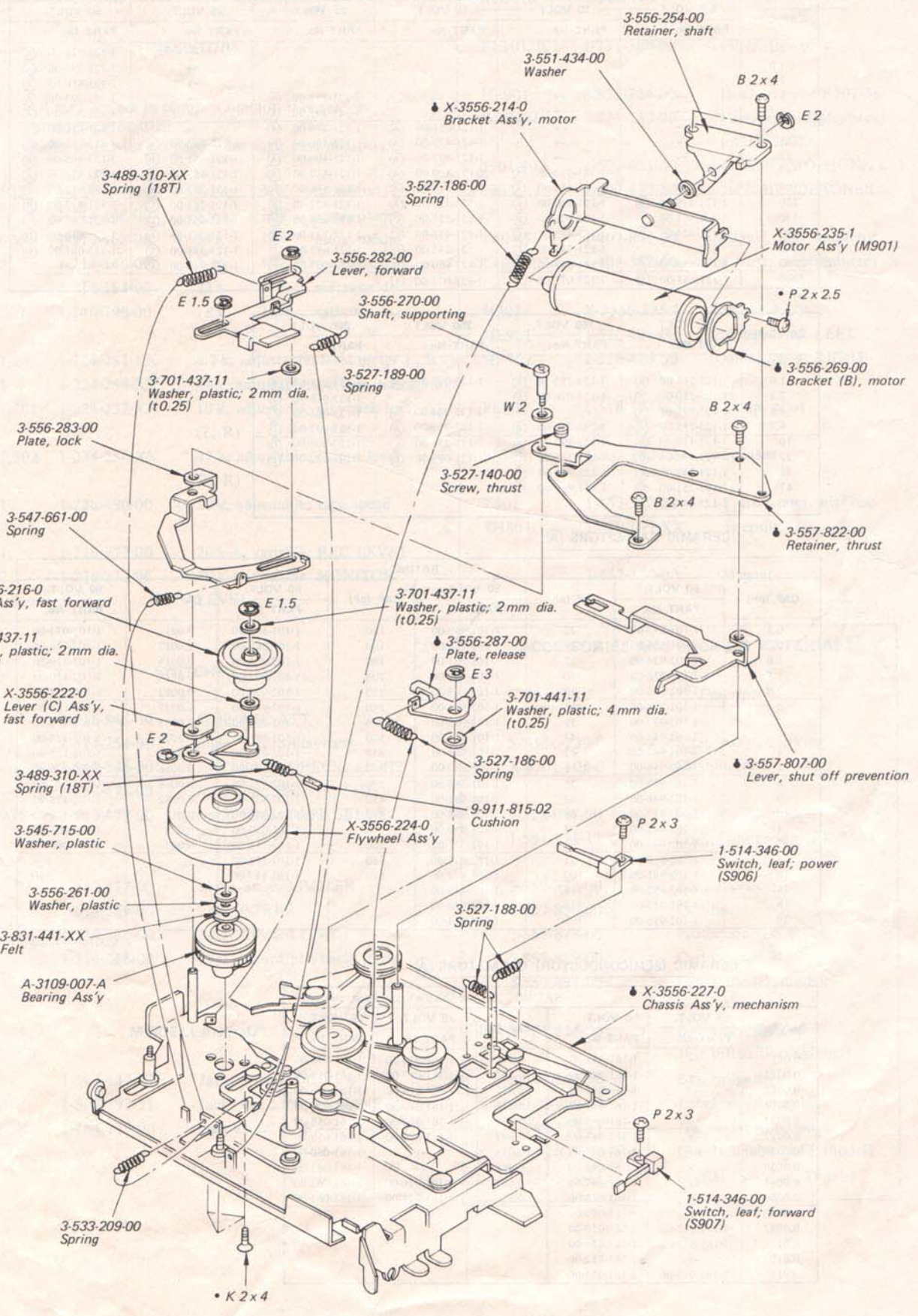
1

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>
<b>COMPLETE CIRCUIT BOARDS</b>			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
<b>PRINTED CIRCUIT BOARDS</b>			Q901	8-763-213-00	2SA861
♣ 1-602-592-00		Switch	<b>ICs</b>		
♣ 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
<b>SEMICONDUCTORS</b>			IC701	8-759-135-80	μPC358C
<b>Transistors</b>			IC702	8-750-690-00	CX069
Q101,201 )	8-729-334-58	2SC1345	IC801	8-751-840-00	CX184
Q102,202 )			<b>Diodes</b>		
Q103,203	8-729-663-47	2SC1364	D101,201	8-719-422-21	1T22AM
Q104,204	8-729-100-13	2SC2001	D301,401 )		
Q105,205	8-729-663-47	2SC1364	D501 )	8-719-815-55	1S1555
			D601-606 )		
Q301	8-729-663-47	2SC1364	D607,608	8-719-910-65	HZ6B2L
Q302	8-760-335-10	2SC1474	D609,610	8-719-815-55	1S1555
Q401,501	8-729-612-77	2SA1027R	D801	8-719-200-02	10E2
Q402,502	8-729-334-58	2SC1345	D901,902	8-719-900-24	SLP24B
Q403,503	8-729-612-77	2SA1027R	<b>Magnetic Element</b>		
Q404,405 )	8-729-663-47	2SC1364	RM701	8-745-101-01	DM-101
Q407-411 )			<b>CAPACITORS</b>		
Q412	8-729-612-77	2SA1027R	All capacitors are in μF. Common capacitors are omitted.		
Q504,505 )	8-729-663-47	2SC1364	Refer to the list on pages 31 and 32 for their part numbers.		
Q507-511 )			C440,540	1-107-253-00	15+18+22+27p 500V mica
Q512	8-729-612-77	2SA1027R	C606	1-130-062-00	0.0056 630V film
Q601,606	8-729-195-23	2SA952	C710	1-130-140-00	0.039 100V film
Q602-605 )	8-729-663-47	2SC1364	C901	1-102-074-00	0.001 50V ceramic
Q607 )					
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			
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.



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 <sub>2</sub>
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
CN901	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 → : Use the high voltage rated one.					
	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)

CAP. (pF)	RATING						
	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)

CAP. (μF)	RATING → : Use the high voltage rated one.				
	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)

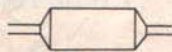
Note: Circled letters (A) to (Z) are applicable to European models only.

CAP. (μF)	RATING																		
	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.		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

CAP. (μF)	RATING						
	→: Use the high voltage rated one.						
	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.	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

CAP. (μF)	RATING					
	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)				-	-

Sony Corporation

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