

# CFS-5L

AEP Model  
UK Model



## FM/MW/LW STEREO CASSETTE RECORDER


### SPECIFICATIONS

<b>Radio section</b>		<b>Power requirements</b>	9 V dc, six batteries IEC designation R14 (size C) DC IN 9 V jack accepts; ac power adaptor AC-230A (supplied) available in the United Kingdom for use on 240 V ac, 50 Hz. available in continental European countries for use on 220 V ac, 50 Hz.
Frequency range	FM 87.6–107 MHz MW 530–1,605 kHz (566–187 m) LW 150–255 kHz (2,000–1,176m)	Power consumption	13 W ac
Antennas	FM: Telescopic antenna MW/LW: Built-in ferrite bar antenna	Battery life	Approx. 2.5 hours with Sony SUM-2(NS) New Super batteries Approx. 4 hours with Sony Eveready AM2 Alkaline batteries
<b>Tape recorder section and general</b>		Dimensions	Approx. 441 x 140 x 76.5 mm (w/h/d) (17 <sup>3</sup> / <sub>8</sub> x 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>8</sub> inches) not incl. projecting parts and controls and handle
Recording system	4-track 2-channel stereo	Weight	Approx. 2.32 kg (5 lb 2 oz) incl. batteries
Fast winding time	Approx. 1 min. 30 sec. with Sony cassette C-60		
Frequency response	60–8,000 Hz		
Speakers	Two, approx. 10 cm (4 inches) dia.		
Power output (at 10% harmonic distortion)	2W x 2 at dc operation		
Inputs	Two external microphone input jacks (mini-jack) sensitivity 1.38 mV (–55 dB) for low impedance microphone		
Outputs	Headphone jack (stereo minijack) for 8–32-ohm impedance headphones		

Tape Transport  
Mechanism Type

MDS-12VS1

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



# SONY

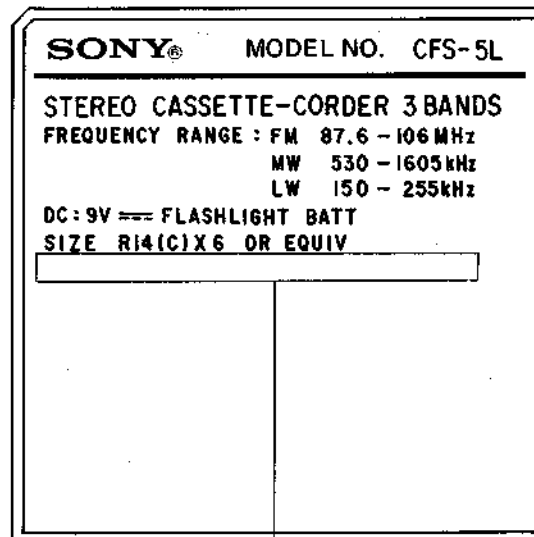
## SERVICE MANUAL

## FEATURES

- A cassette-corder combined with a high-quality 3-band radio.
- Simplicity of recording—merely insert a cassette and depress one button.
- Automatic music sensor (AMS) system for automatic playback from the beginning of the selection being played or the following selection.
- Record muting operation for creating blank intervals on the tape during recording, eliminating unwanted program material.
- With the Sony variable level recording monitor system, a program to be recorded may be listened to at any desired sound volume and tone control settings without affecting the recording.
- Automatic shut-off mechanism activates at the end of the tape in record or playback mode.
- A flywheel on the oversized tuning knob makes tuning smooth.
- Two built-in electret condenser microphones for picking up sound with true fidelity.
- Two external microphone jacks for stereo recording.
- Two different power sources: batteries and house current.

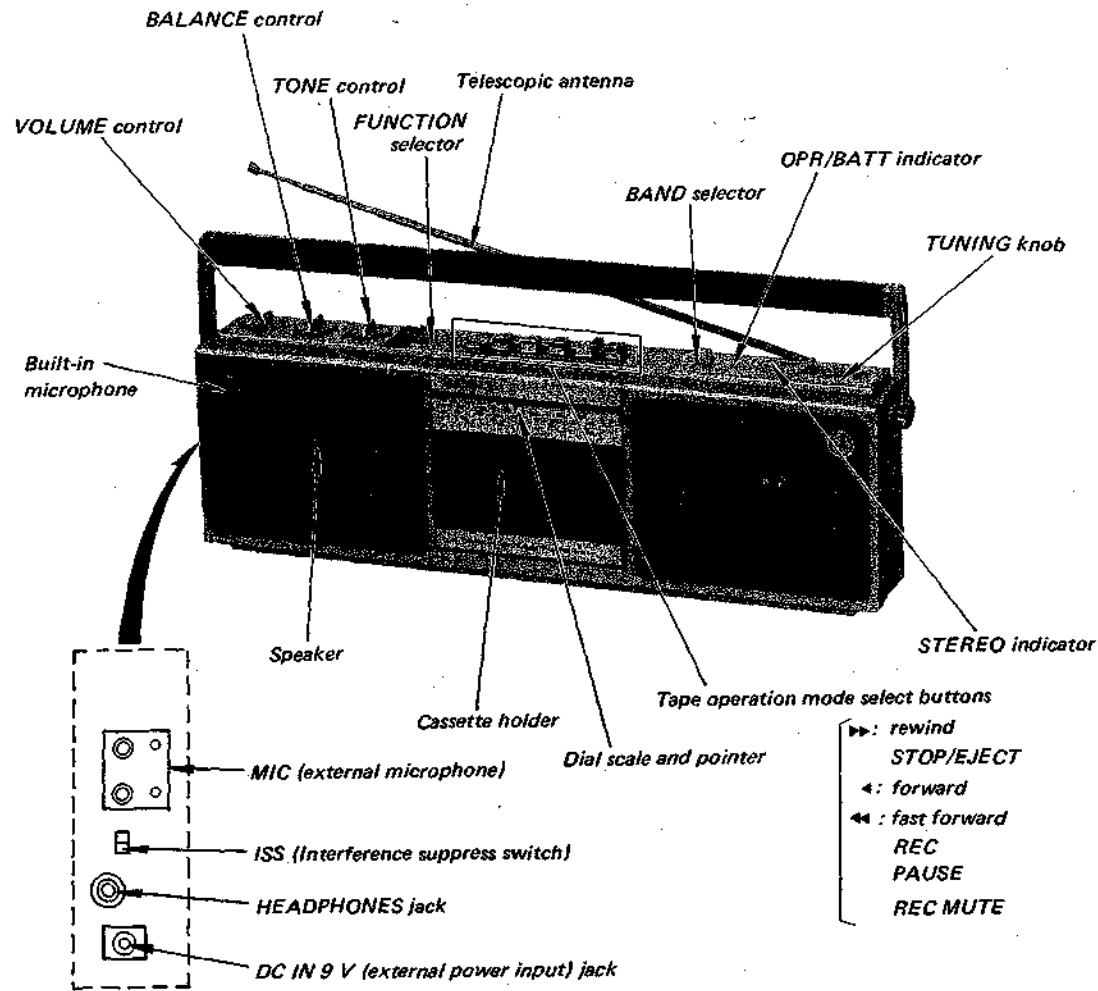
## MODEL IDENTIFICATION

— Specification Label —



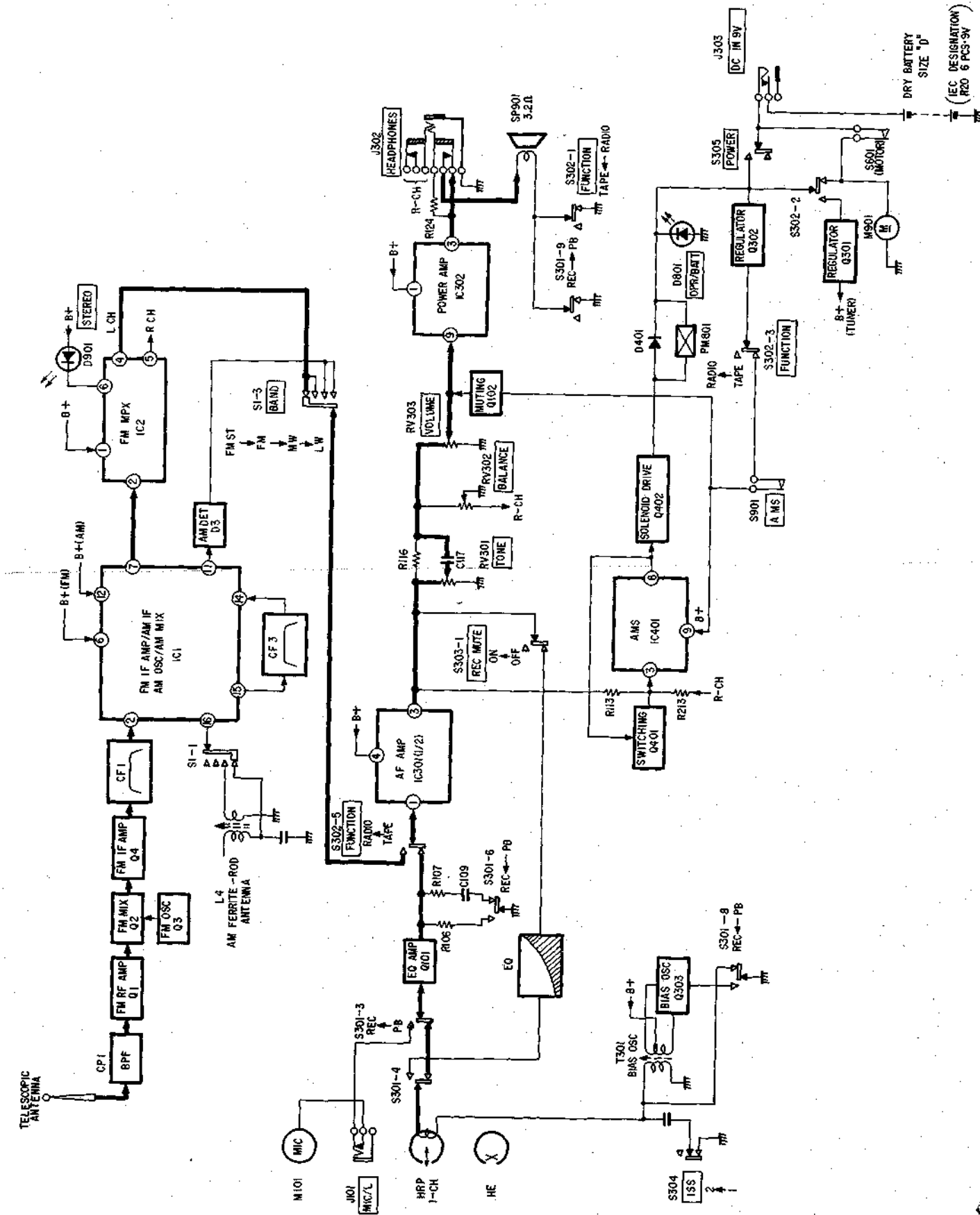
- AEP model : Made in Taiwan Republic of China
- UK model : Made in Taiwan

LOCATION AND FUNCTION OF CONTROLS



SECTION 1  
OUTLINE

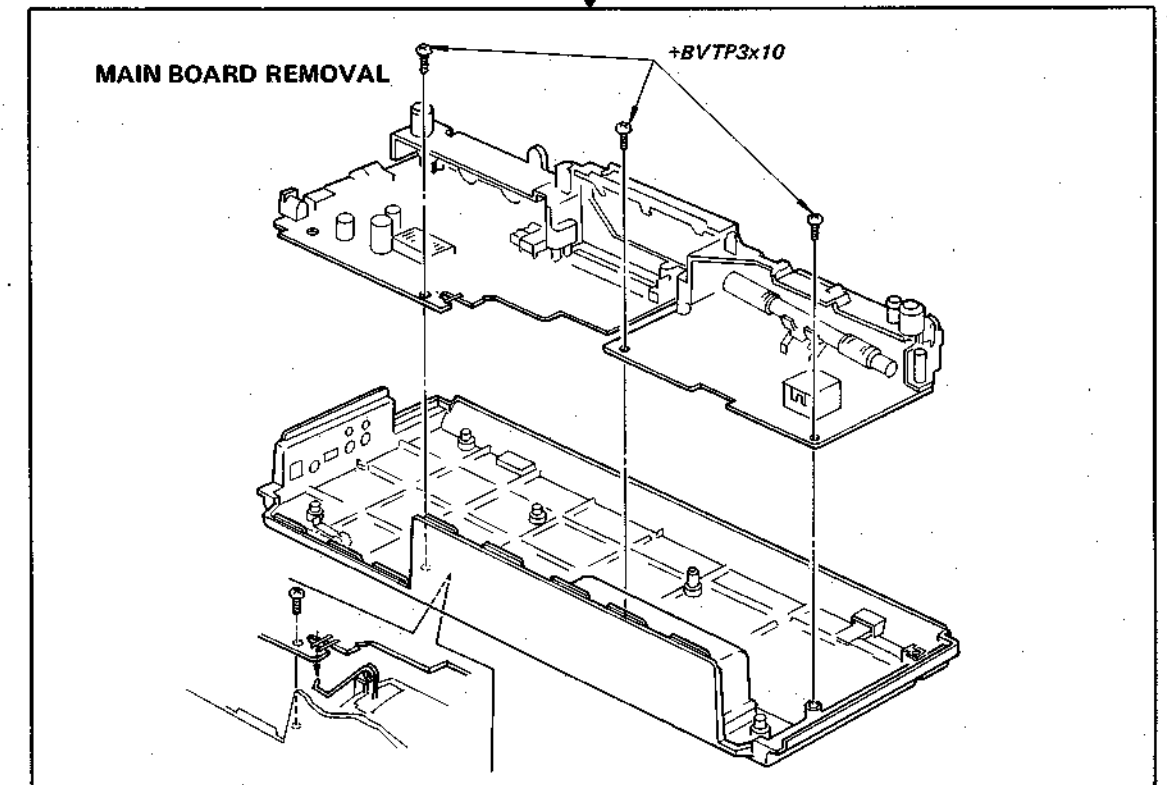
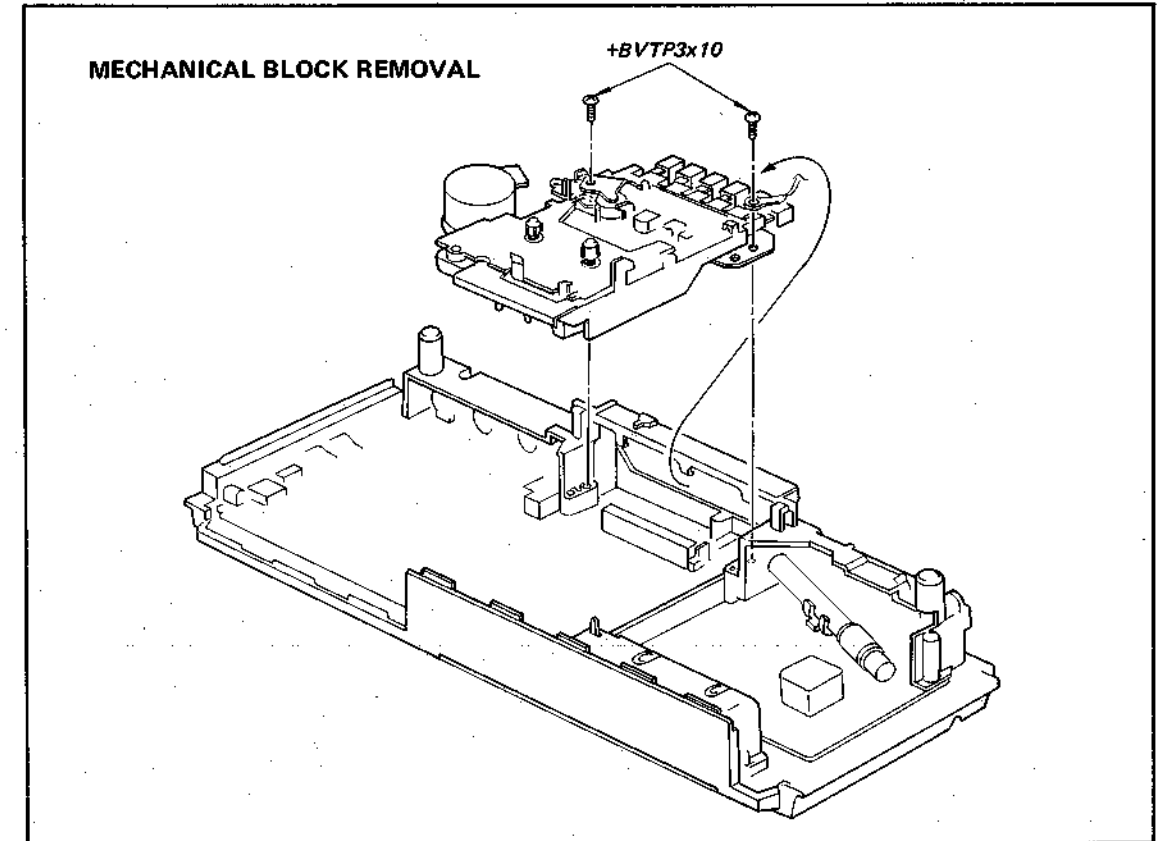
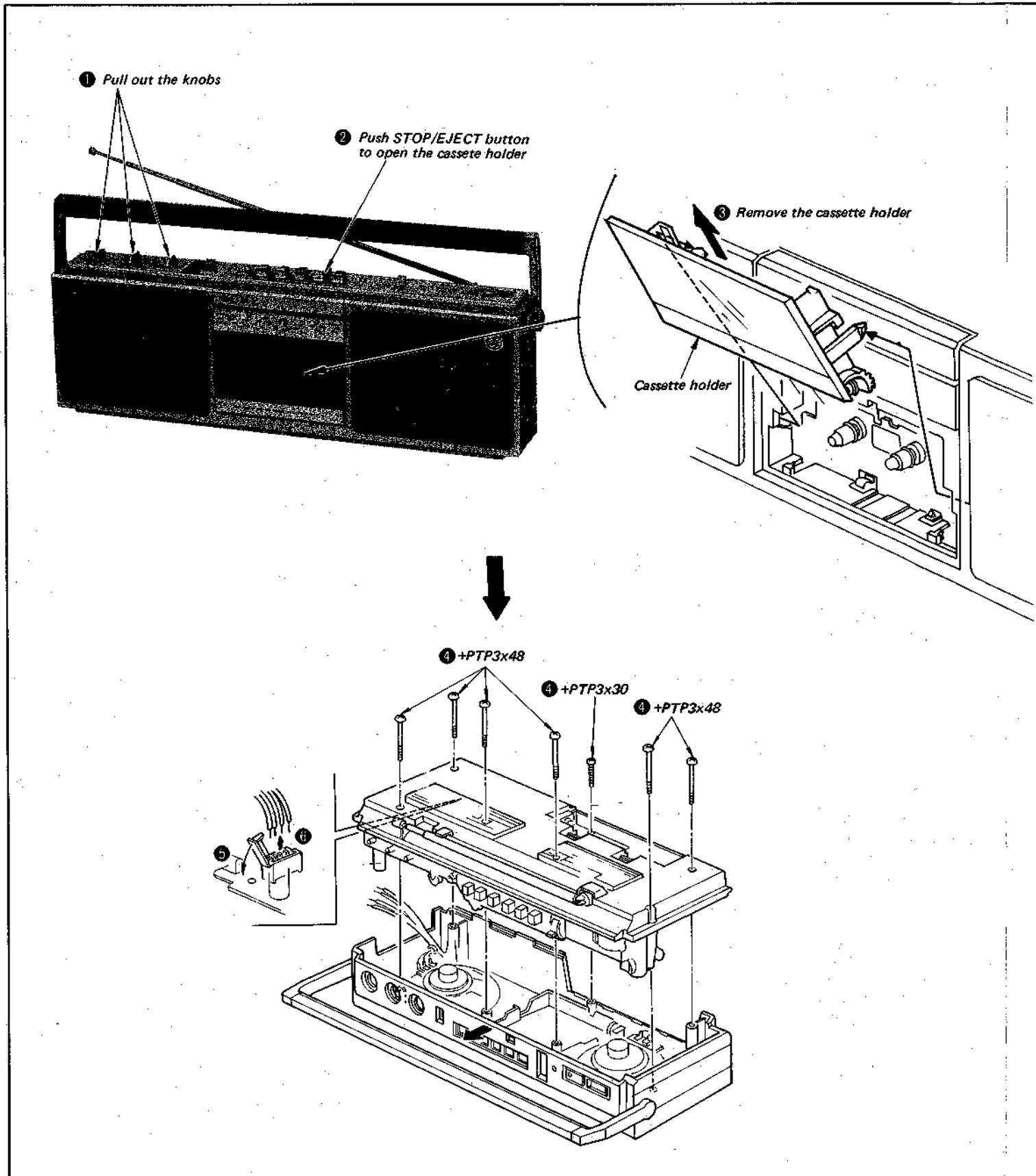
1-1. BLOCK DIAGRAM



### SECTION 2 DISASSEMBLY

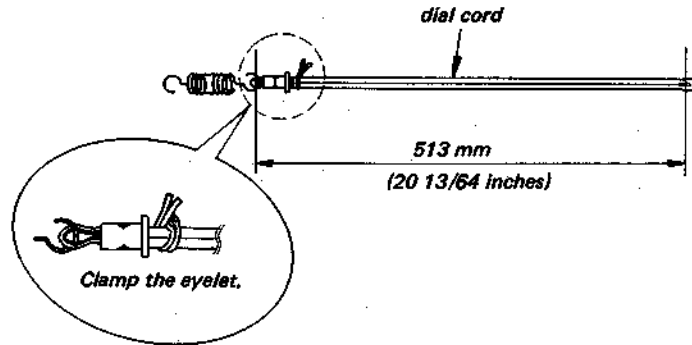
#### 2-1. REMOVAL

- Follow the disassembly procedure in the numerical order given.



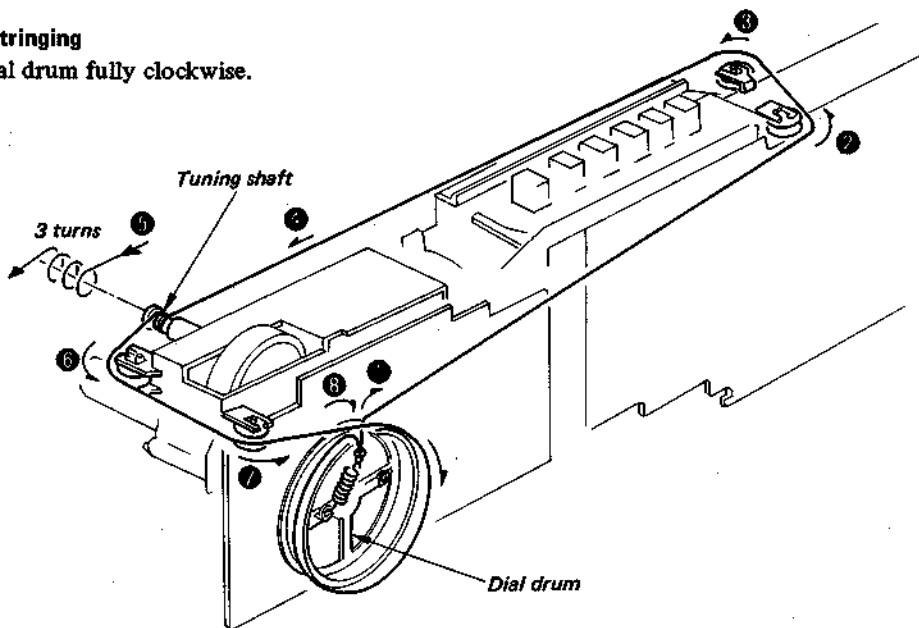
**2. DIAL CORD STRINGING**

**(1) Dial Cord Preparation**



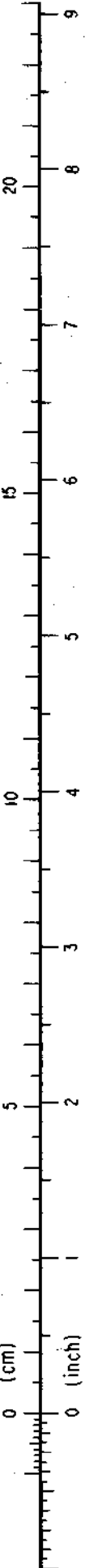
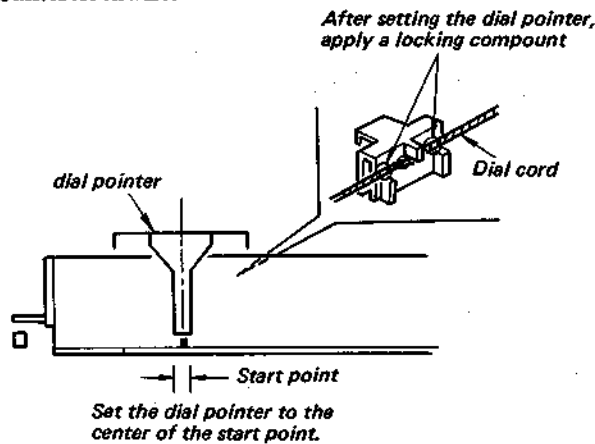
**(2) Dial Cord Stringing**

- Turn the dial drum fully clockwise.



**(3) Dial Pointer Setting**

- Turn the tuning shaft fully counterclockwise.



## SECTION 3 ADJUSTMENTS

### 1. MECHANICAL ADJUSTMENTS

#### TAPE RECORDER SECTION

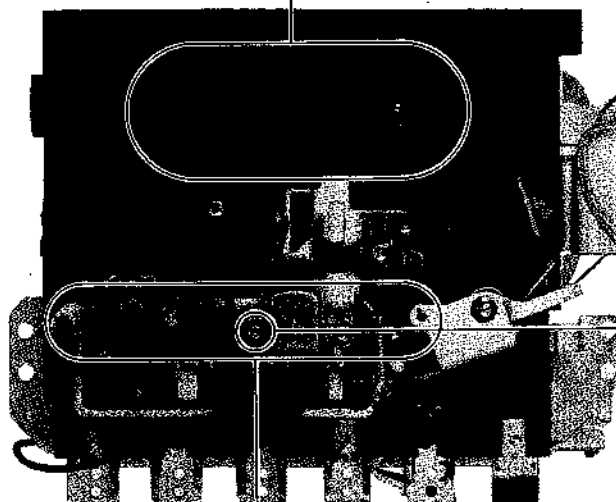
##### PRECAUTION

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

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

##### Torque Measurement

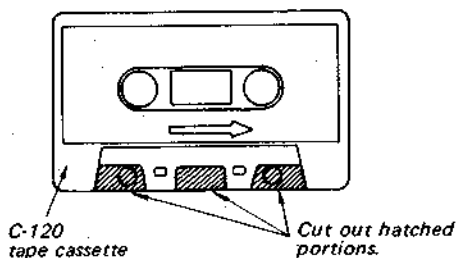
Mode	Cassette type torque meter	Torque
Forward	CQ-102C	22.5~55 g-cm (0.31~0.76 oz-inch)
Fast Forward	CQ-201B	65~125 g-cm (0.9~1.73 oz-inch)
Rewind	CQ-201B	65~125 g-cm (0.9~1.73 oz-inch)
Back Tension	CQ-102C	2~5 g-cm (0.03~0.07 oz-inch)
Tape Pulling Force	CQ-403	More than 200 g (more than 7.05 oz)



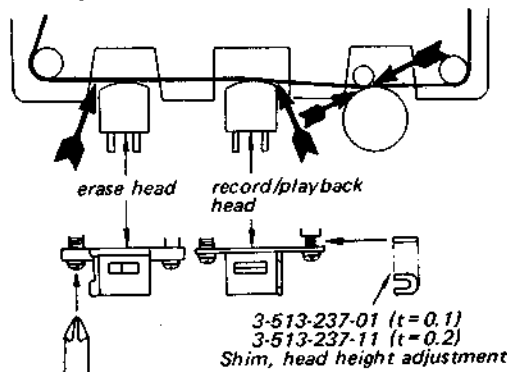
##### Head Height Adjustment

##### – Playback Mode –

1. Prepare an adjustment cassette as shown below.



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

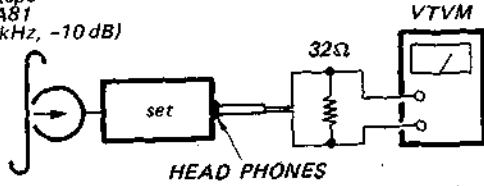


**Record/playback Head Azimuth Adjustment**

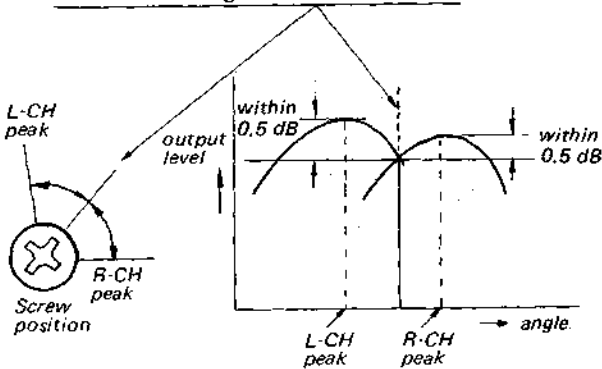
**Procedure:**

1. Mode: playback

test tape  
P-4-A81  
(6.3 kHz, -10 dB)

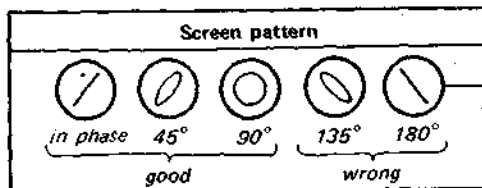
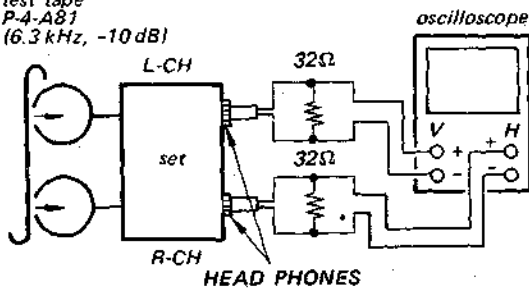


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.

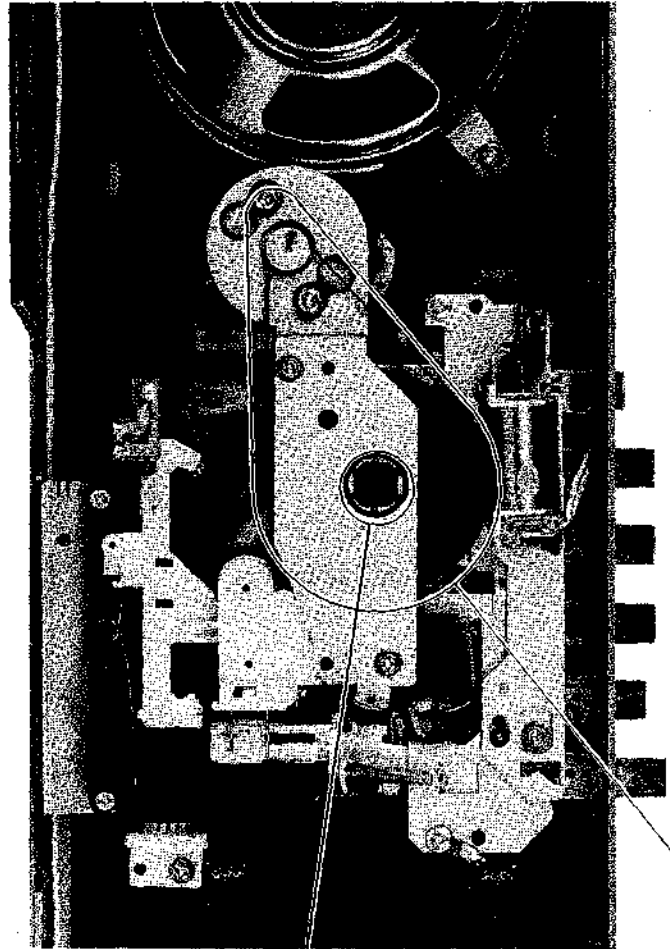


3. Phase Check  
Mode: playback

test tape  
P-4-A81  
(6.3 kHz, -10 dB)

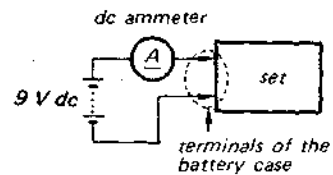


**Adjustment Location:**



**Flywheel Thrust Play Adjustment**

— Playback Mode —



1. Turn the thrust screw counterclockwise until the screw tip is detached from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about 1/4 turn from the position obtained in step 2.

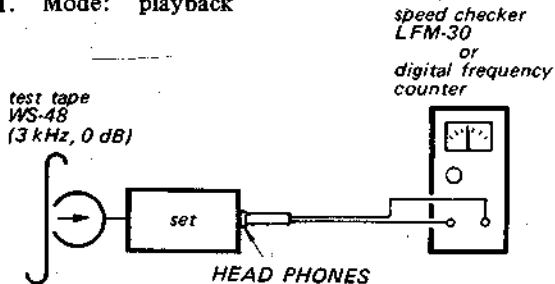
**Tape Speed Adjustment**

**Setting:**

VOLUME control: mechanical mid

**Procedure:**

1. Mode: playback

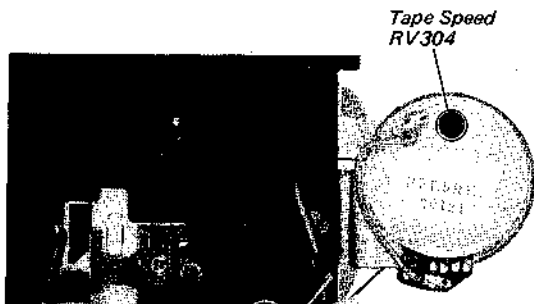


2. Adjust RV304 to obtain the specification.

**Specification:**

Speed checker	Digital frequency counter
-1.5% - +2%	2,955 - 3,060Hz

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

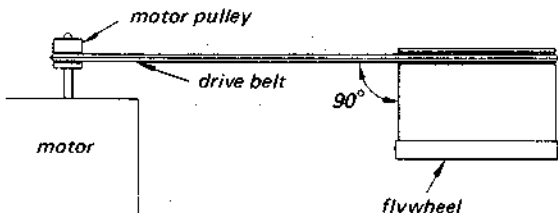


**Motor Pulley Height Adjustment**

After replacing the motor pulley or the flywheel, this adjustment should be performed.

**Procedure:**

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.



**Bias OSC Frequency Adjustment**

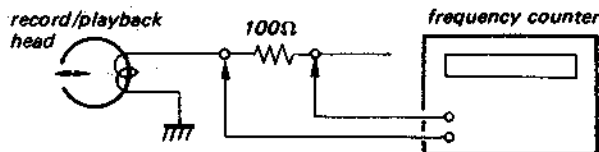
**Setting:**

TONE control: HIGH

FUNCTION switch: TAPE

**Procedure:**

1. Mode: record

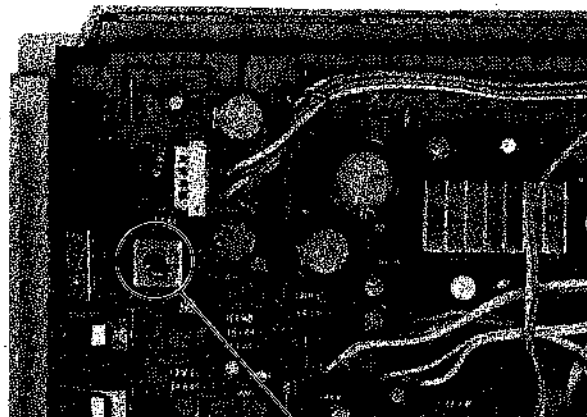


Connect 100Ω resistor as shown.

2. Adjust T301 to obtain the specification.

**Specification:**

ISS SW (S304)	f
1	43.2~52.8kHz
2	38.7~47.3kHz

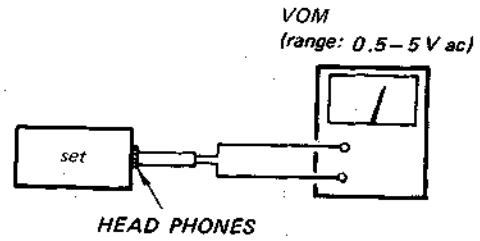
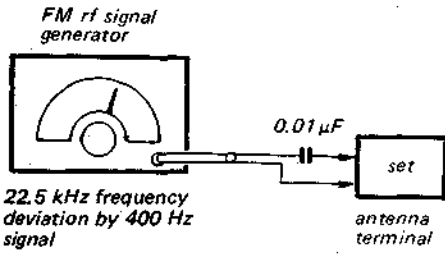


T301



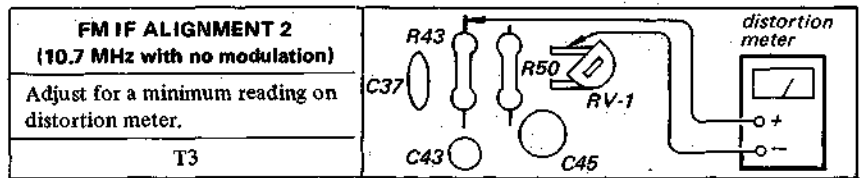
**2. ELECTRICAL ADJUSTMENTS**

**FM SECTION**

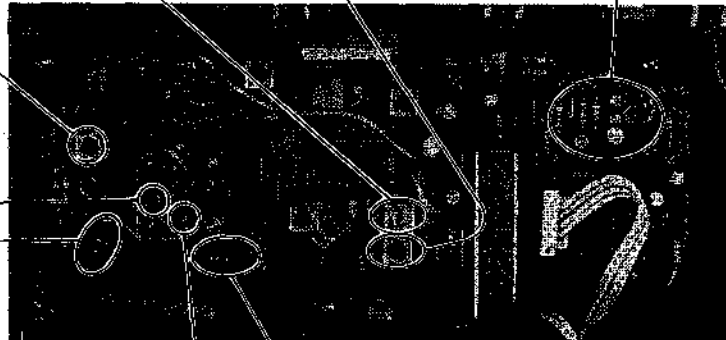


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT 1 (10.7 MHz with modulation)	
Adjust for a maximum reading on VOM.	
T1	T2



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
107.8 MHz	CT1
87.4 MHz	L1

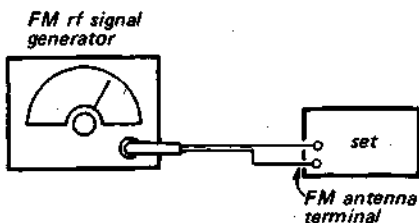


CT2	L2
107.8 MHz	87.4 MHz
Adjust for a maximum reading on VOM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

19 kHz Adjustment

A) Regular Method

Procedure:

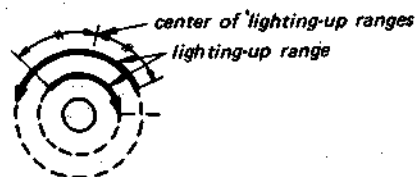


Carrier frequency: 98 MHz  
 Modulation: 400 Hz, 75 kHz deviation (100%)  
 Output level: 501 mV (54 dB)

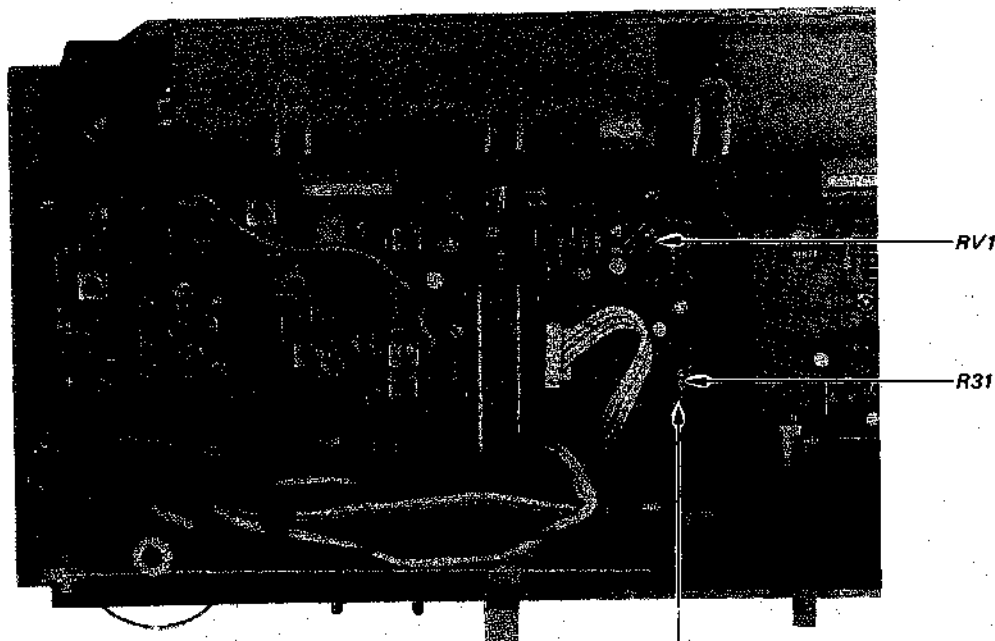
B) Simple Method

Procedure:

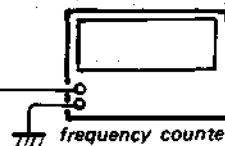
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



Tuner Board



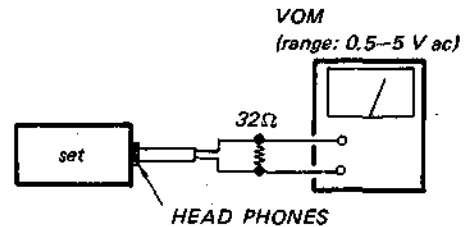
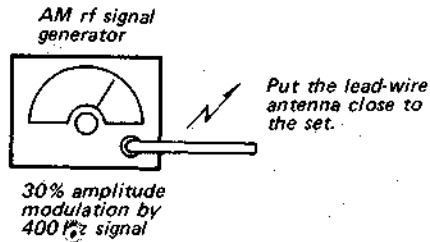
1. Tune the set to 98 MHz.
2. Adjust RV1 for 19 kHz  $\pm$ 100 Hz on the counter.



## MW/LW SECTION

Setting:

BAND switch: MW or LW



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

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
1,650kHz	520kHz
CT4	T5

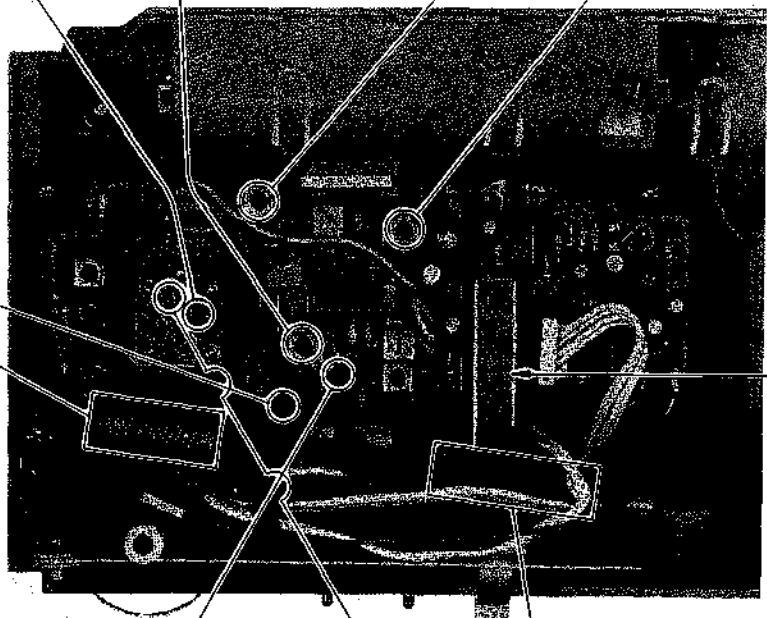
AM IF ALIGNMENT	
Adjust for a maximum reading on VOM.	
455kHz (468kHz)	
T6	T4

( ): UK model

240kHz	CT5
160kHz	L4-2
Adjust for a maximum reading on VOM.	
LW TRACKING ADJUSTMENT	

145kHz	CT6
260kHz	
Adjust for a maximum reading on VOM.	
LW FREQUENCY COVERAGE ADJUSTMENT	

CT3	L4-1
1,400kHz	600kHz
Adjust for a maximum reading on VOM.	
MW TRACKING ADJUSTMENT	

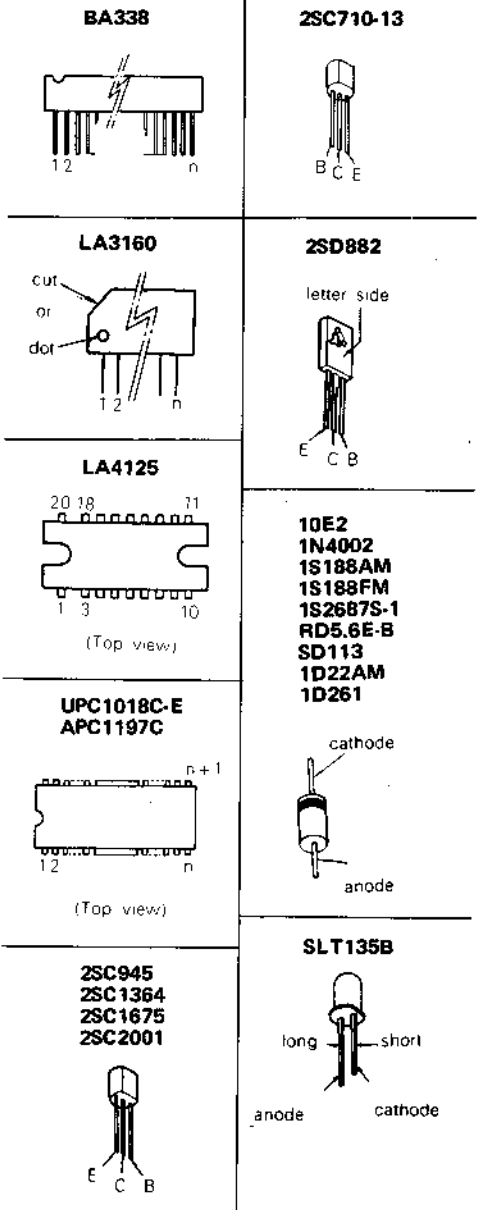


**BAND**  
FM ST  
↓  
FM  
↓  
MW  
↓  
LW

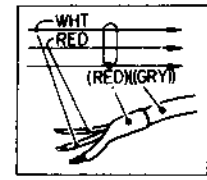
- Repeat the MW and LW tracking adjustments several times alternately.

SECTION 4  
DIAGRAMS

Semiconductors Lead Layout



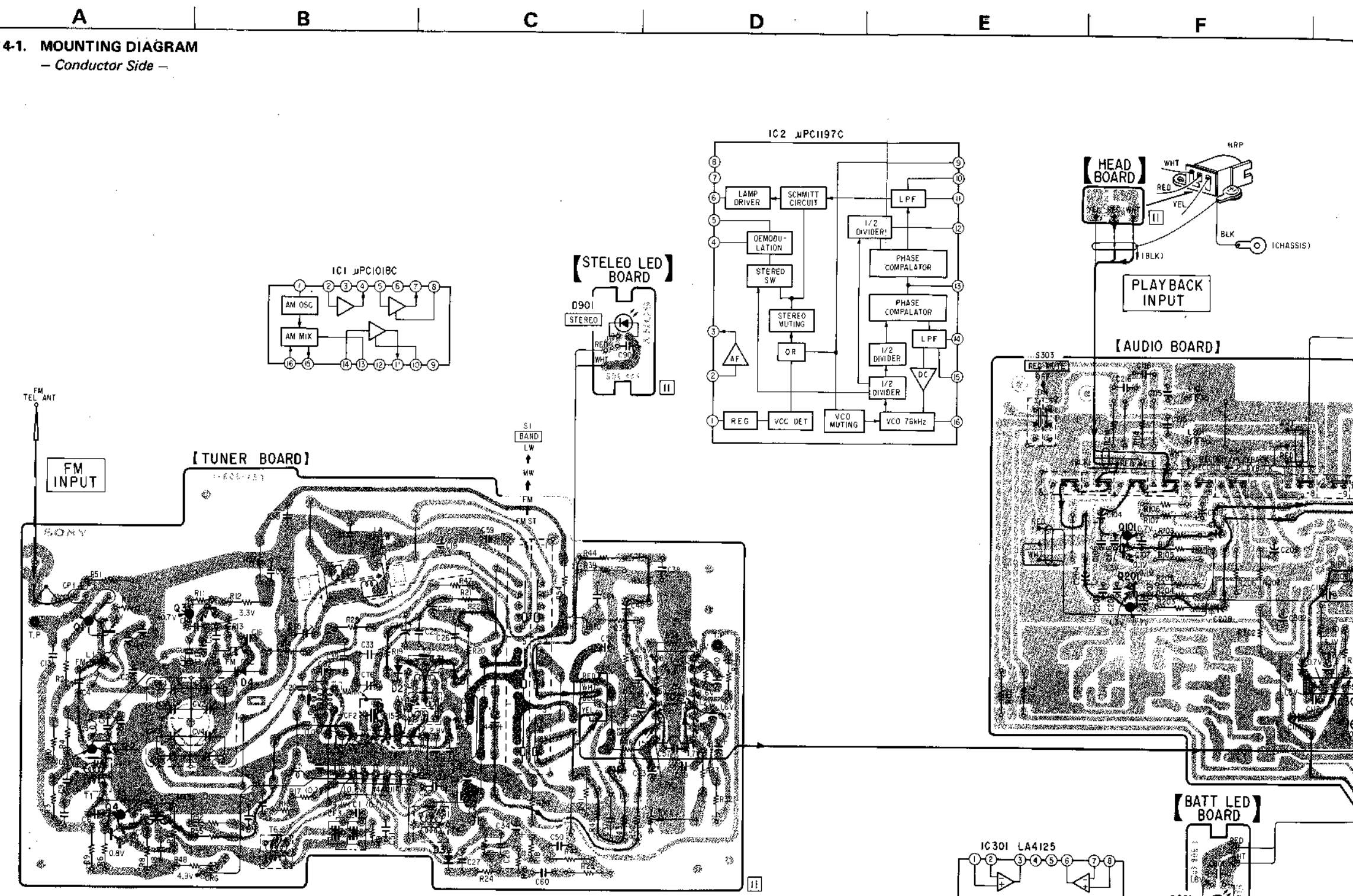
Note:  
• Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.
- : indicates side identified with part number.
- ▨ : component-side pattern.
- : L-CH signal path
- : R-CH signal path

4-1. MOUNTING DIAGRAM  
- Conductor Side -

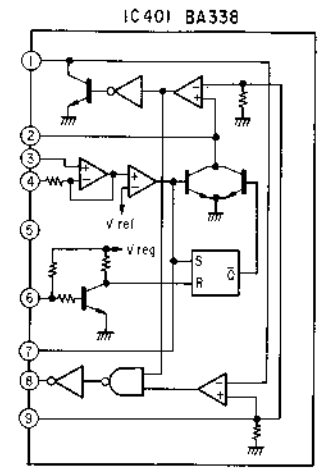
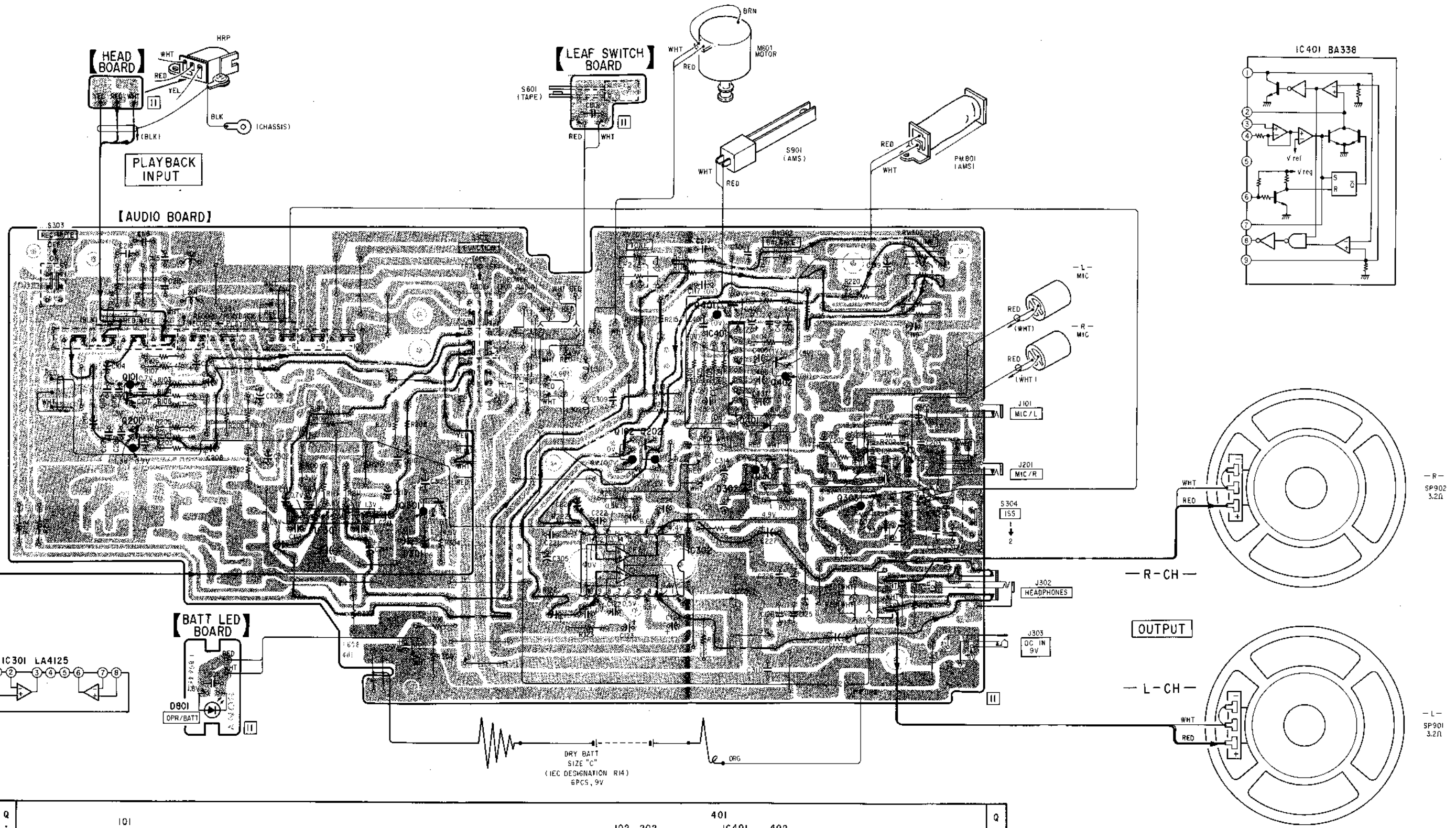
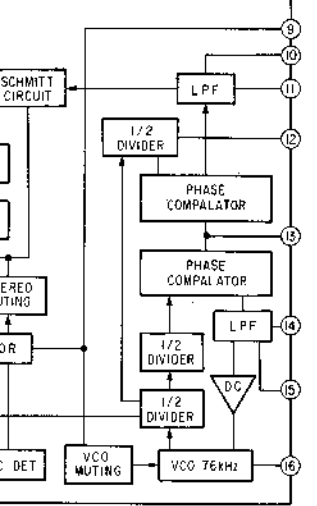
1  
2  
3  
4  
5



Q	1	3				
IC	2		IC1		IC2	
D	4		4	2	3	1

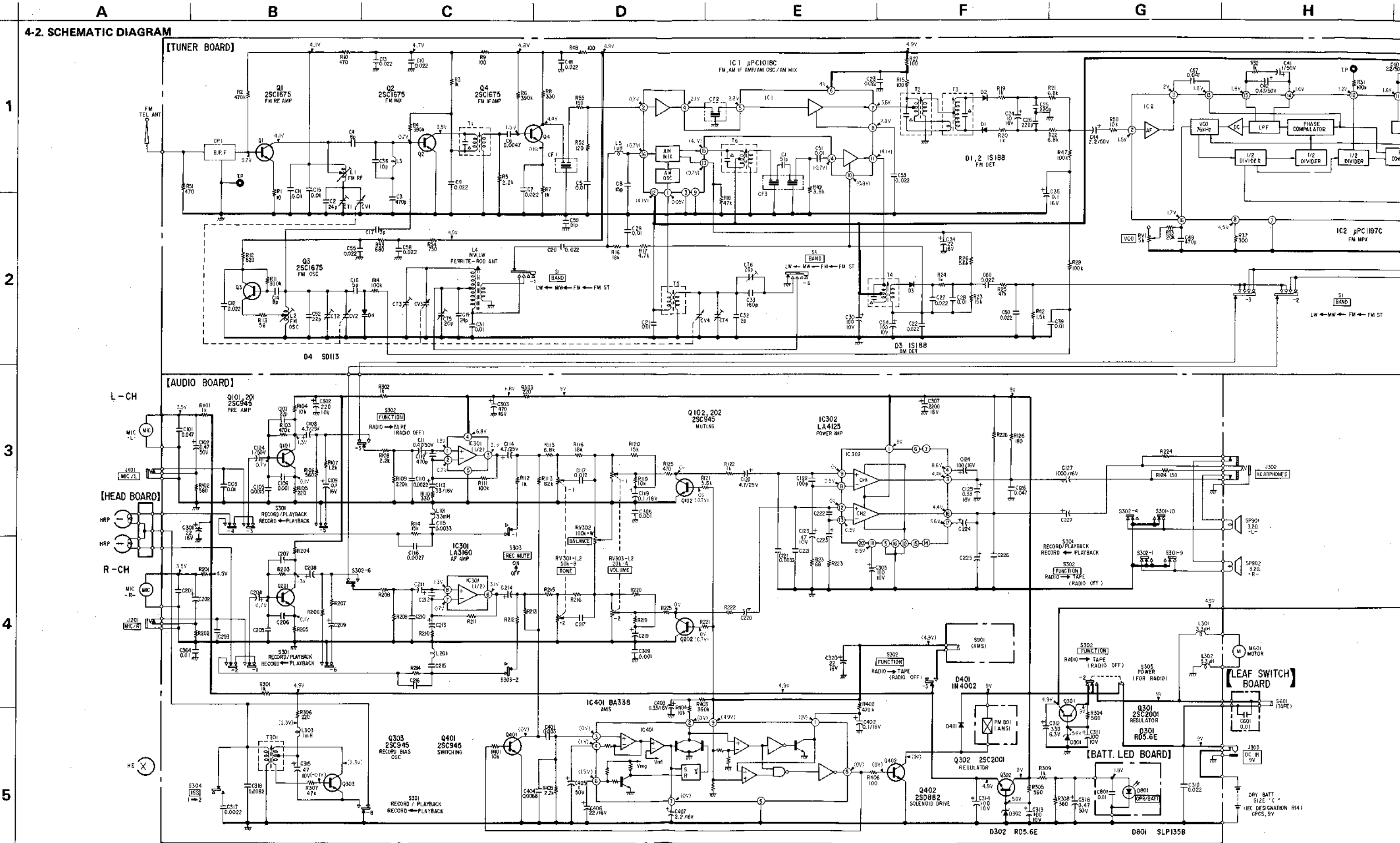
Q						
IC	101					IC30
D	201					
						801

JPC1197C

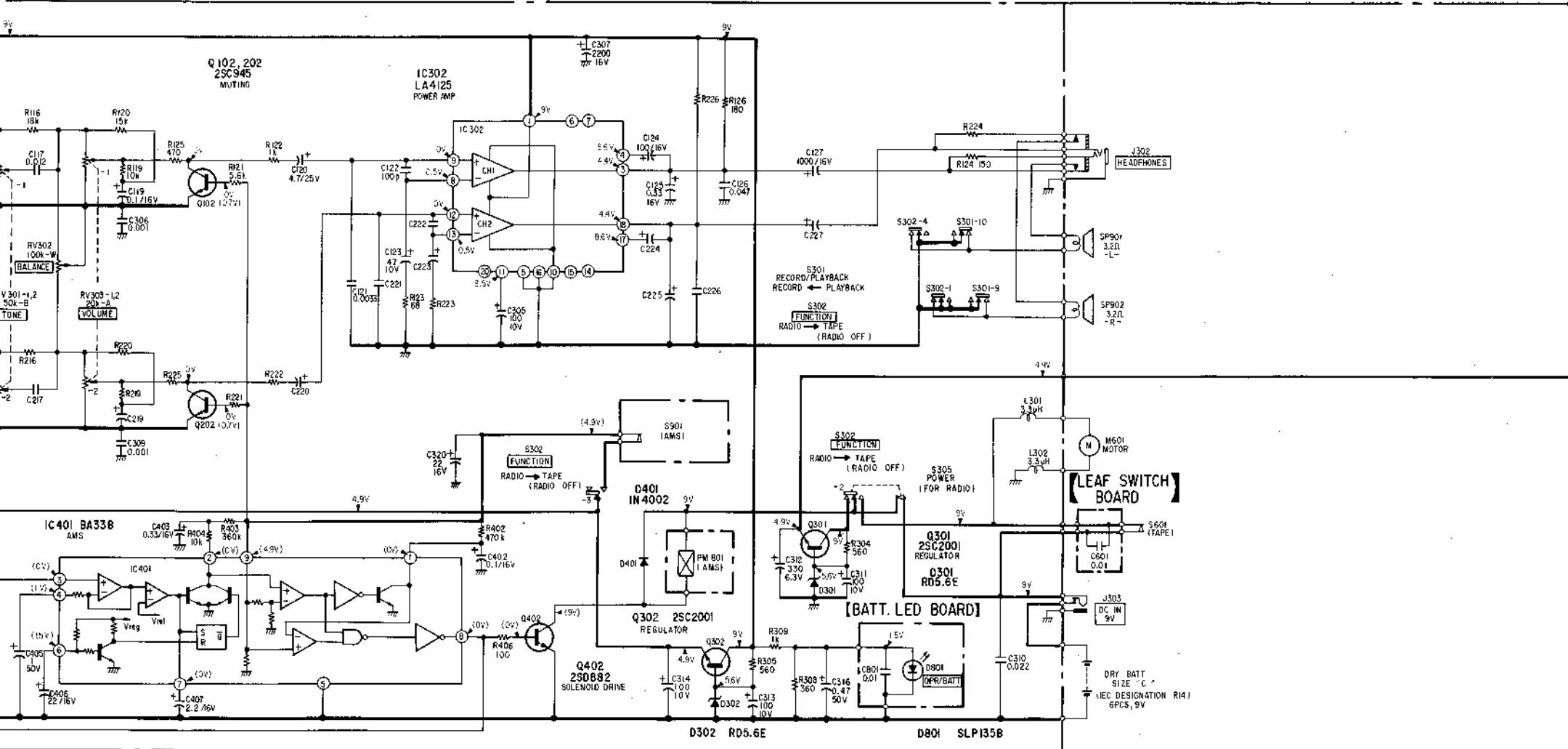
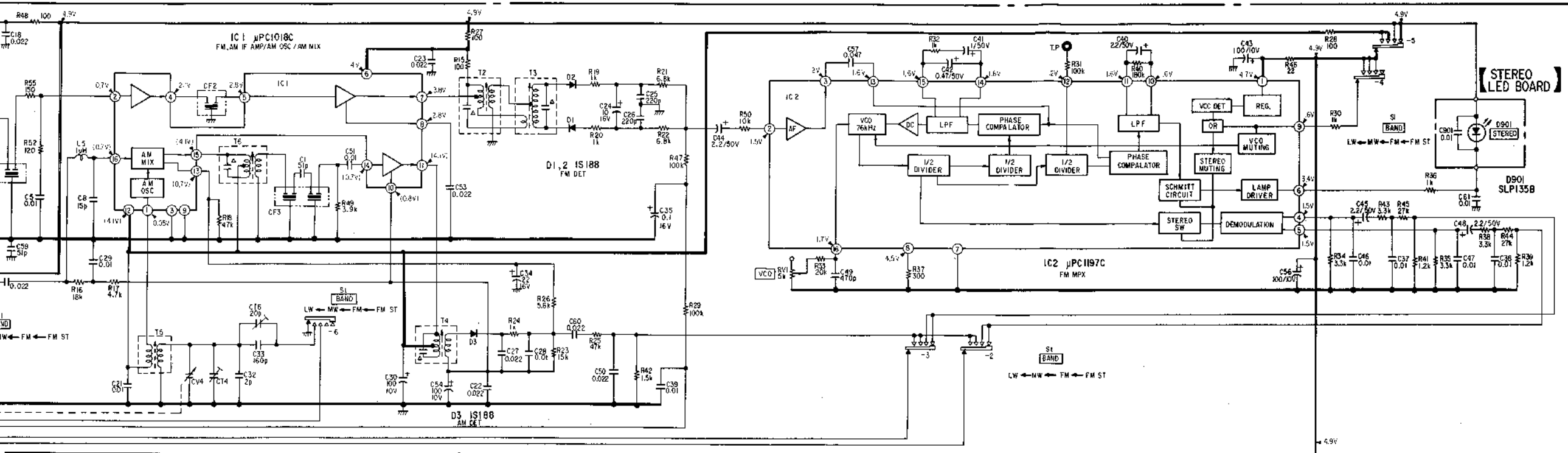


Q	101				401			Q
IC	201	IC301	301	102, 202	IC401	402	303	IC
D			301	IC302	302	401		D

4-2. SCHEMATIC DIAGRAM



D E F G H I J K



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

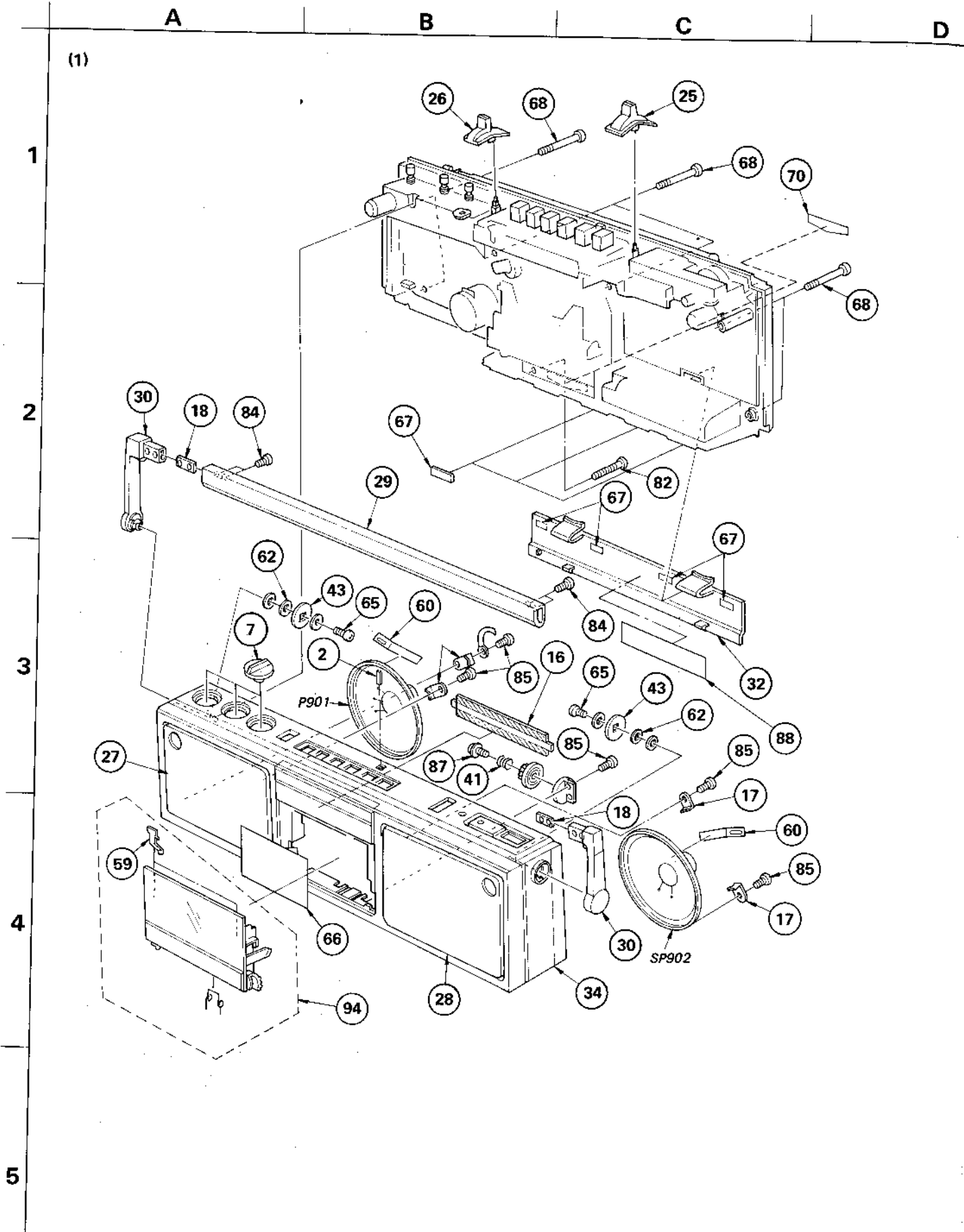
- All capacitors are in µF unless otherwise noted. pF : µµF
- 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4 W unless otherwise noted.
- kΩ : 1000 Ω, MΩ : 1000 kΩ
- □ : adjustment for repair.
- — : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.

NO MARK : FM  
 ( ) : AM  
 | | : RECORD  
 < > : AMS.

• Switch

Ref. No.	Switch	Position
S1	BAND	FM ST
S301	REC/PLAYBACK	PB
S302	FUNCTION	TAPE
S303	REC MUTE	OFF
S304	ISS	I
S305	POWER	OFF
S601	MOTOR	OFF
S901	AMS	OFF

SECTION 5  
EXPLODED VIEWS AND PARTS LIST





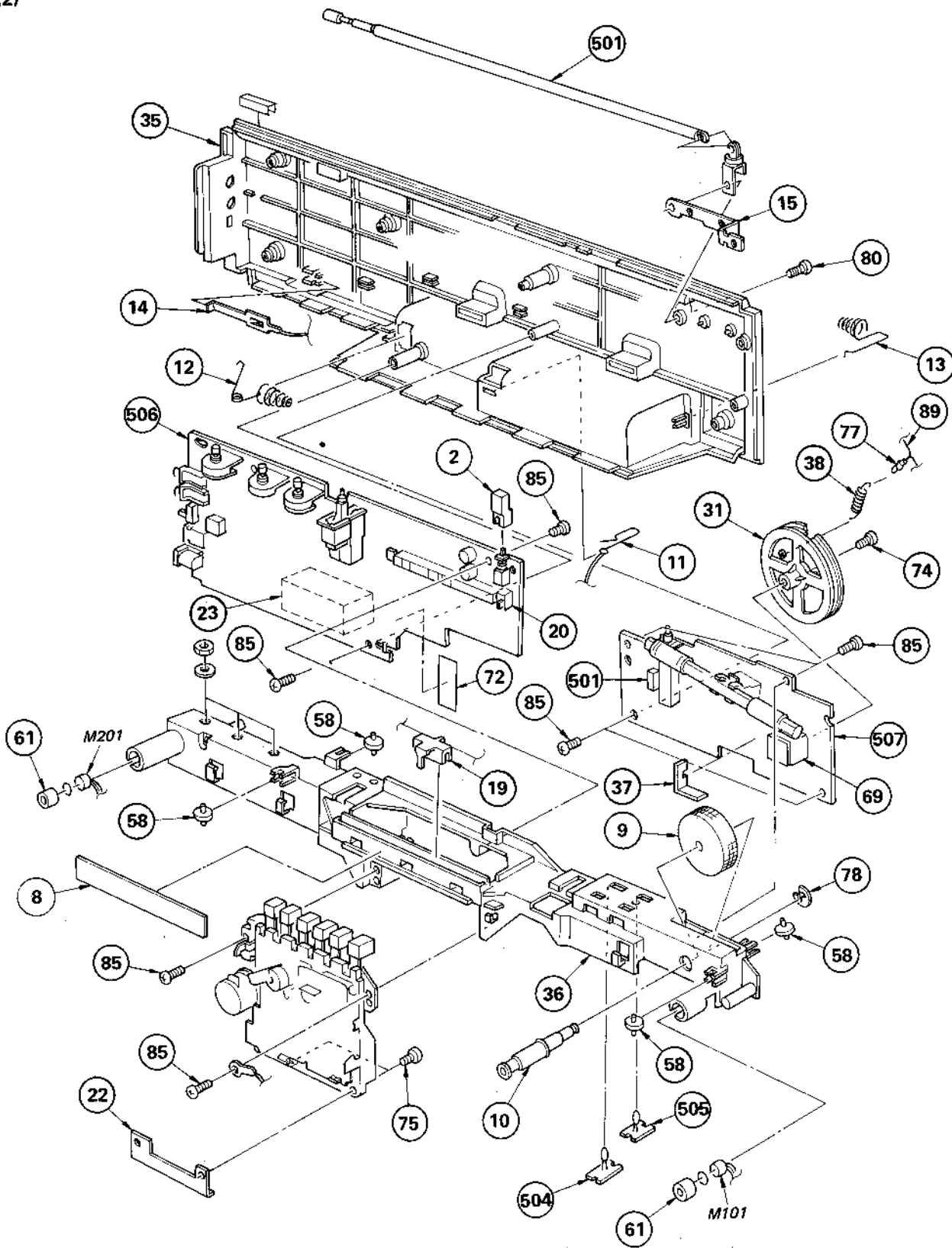
A

B

C

(2)

1  
2  
3  
4  
5



A

B

C

D

(3)

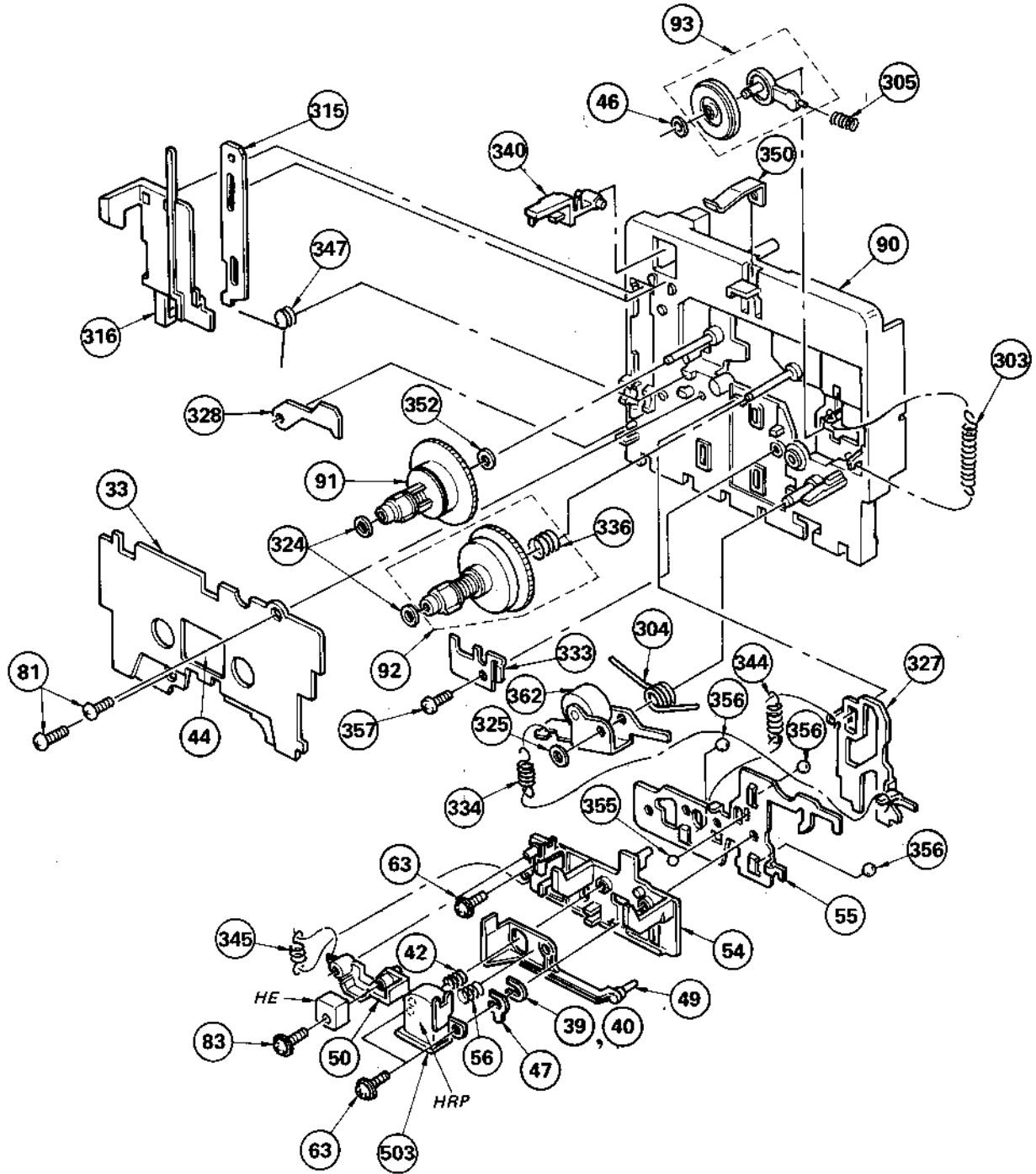
1

2

3

4

5



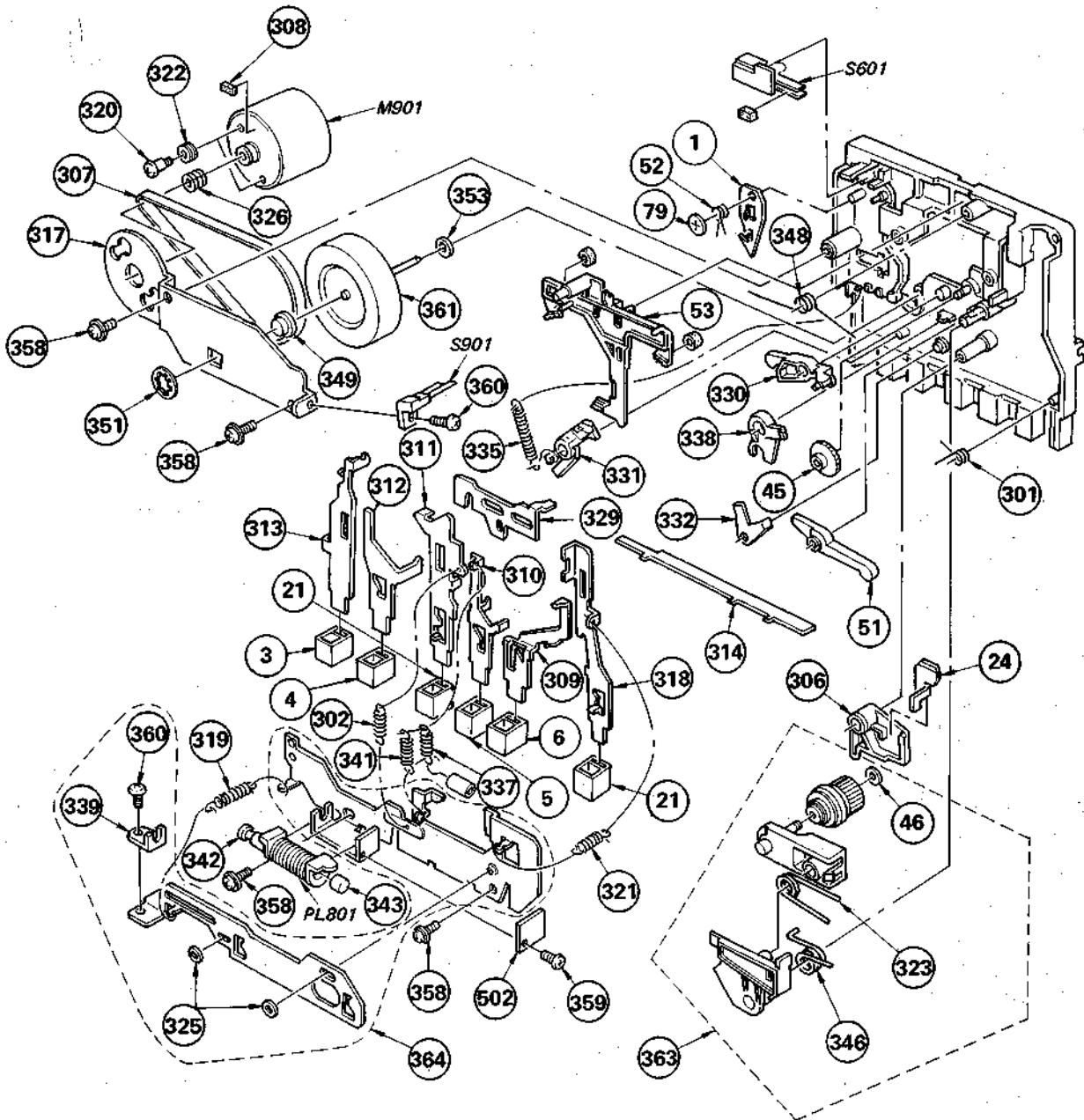
A

B

C

D

(4)



GENERAL SECTION

No.	Part No.	Description
1	3-309-017-00	PLATE, LOCK, PAUSE
2	3-309-205-00	PUSH BUTTON (REC MUTE)
3	3-309-206-00	BUTTON, PAUSE
4	3-309-207-00	BUTTON, REC
5	3-309-208-00	BUTTON, FWD
6	3-309-209-00	BUTTON, STOP
7	3-309-210-00	KNOB, CONTROL (VOLUME, BALANCE, TONE)
8	3-309-211-00	PLATE, BACK
9	3-309-212-00	KNOB, TUNING
10	3-309-213-00	SHAFT, TUNING
11	3-309-214-00	SPRING (+)
12	3-309-215-00	SPRING (-)
13	3-309-216-00	SPRING
14	3-309-217-00	TERMINAL, BATTERY
15	3-309-218-00	TERMINAL, ANTENNA
16	3-309-219-00	PLATE, TRANSPARENT
17	3-309-220-00	STOPPER, SPEAKER
18	3-309-221-00	BRACKET, HANDLE
19	3-309-223-00	POINTER
20	3-309-224-00	TIP, CL
21	3-309-225-00	BUTTON, PFR
22	3-309-226-00	BRACKET, MD
23	3-309-227-00	HEAT SINK
24	3-309-229-00	SPRING
25	3-309-230-00	KNOB (A), LEVER (BAND)
26	3-309-231-00	KNOB (B), LEVER (FUNCTION)
27	3-309-232-00	PLATE (LEFT); PANCHING
28	3-309-233-00	PLATE (RIGHT), PANCHING
29	3-309-234-00	HANDLE
30	3-309-235-00	PLATE, SIDE, HANDLE
31	3-309-236-00	DRUM, DIAL
32	3-309-237-00	LID, BATTERY CASE
33	3-309-239-00	PLATE, BLIND, MD
34	3-309-240-00	CABINET
35	3-309-241-00	(UK)...LID, REAR
35	3-309-241-11	(AEP)...LID, REAR
36	3-309-242-00	CHASSIS, MOLD
37	3-309-243-00	PLATE (A), SHIELD
38	3-430-219-00	SPRING, TENSION
39	3-513-237-01	PLATE (t=0.1)
40	3-513-237-11	PLATE (t=0.2)
41	3-536-499-00	SPRING, COMPRESSION
42	3-539-237-00	SPRING (3), COMPRESSION
43	3-552-410-00	WASHER
44	3-556-221-00	PLATE, ORNAMENTAL
45	3-558-620-11	GEAR, REWIND

GENERAL SECTION

No.	Part No.	Description
46	3-558-708-01	WASHER, STOPPER
47	3-558-737-11	SHIM, RP HEAD (t=0.2)
48	3-558-737-21	SHIM, RP HEAD (t=0.3)
49	3-561-802-11	TENSION (PU)
50	3-561-817-11	LEVER, ERASE HEAD
51	3-561-818-11	LEVER, REVIEW
52	3-561-832-00	SPRING
53	3-561-857-11	LEVER, BRAKE
54	3-561-858-11	BRACKET, HEAD
55	3-561-859-11	BASE (L), HEAD
56	3-564-332-00	SPRING, COMPRESSION
57	.....	
58	3-564-506-00	PULLEY (A)
59	3-571-315-00	SPRING
60	3-571-361-00	TAPE, ALUMINIUM
61	3-572-119-00	CUSHION, MICROPHONE
62	3-701-445-01	WASHER
63	3-701-465-00	SCREW, WASHER
64	.....	
65	3-703-137-00	SCREW, TAPPING
66	3-793-828-11	QUESTIONNAIRE
67	3-831-441-XX	SPACER
68	3-846-072-21	SCREW, TAPPING, +P 3X48
69	3-890-726-00	PLATE (C), SHIELD
70	3-998-901-00	LABEL (A,B), SERIAL NUMBER
71	.....	
72	4-308-878-XX	CUSHION
73	4-310-379-00	LABEL, NEMKO
74	7-621-770-87	SCREW +P 2.6X5
75	7-605-649-24	SCREW, PWH 2X8
76	.....	
77	7-623-617-01	EYELET, 2X4
78	7-624-108-04	STOP RING 4.0, TYPE -E
79	7-624-190-11	STOP RING 3, TYPE-CS
80	7-682-548-04	SCREW +B 3X8
81	7-685-134-19	SCREW +P 2.6X8
82	7-685-153-14	SCREW +P 3X30 TYPE2 NON-SLIT
83	7-687-202-21	PTPWH 2X4
84	7-685-546-19	SCREW +BTP 3X8 TYPE2 N-S
85	7-685-647-14	SCREW +BVT 3X10 TYPE2 N-S
86	.....	
87	7-687-233-21	SCREW, TOTSU PTPWH 2.6X6, TYPE2
88	9-911-815-03	CUSHION, BATTERY
89	9-911-825-42	STRING, DIAL
90	A-3102-048-A	CHASSIS (T2) ASSY, MECHANICAL

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**CAPACITORS:**

All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.  
MF: μF, PF: μμF.

**RESISTORS**

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

**COILS**

MMH : mH, UH : μH

**SEMICONDUCTORS**

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

GENERAL SECTION

No.	Part No.	Description
91	A-3130-027-B	TABLE ASSY, REEL, SUPPLY
92	A-3130-029-A	TABLE ASSY, REEL, TAKE-UP
93	A-3136-031-A	IDLER COMPLETE ASSY, FWD
94	A-3247-076-A	LID ASSY, CASSETTE

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
	1-463-431-00	(UK).....ADAPTOR, AC (AC-230A)
	1-463-432-00	(AEP).....ADAPTOR, AC (AC-230A)
	3-309-245-00	INDIVIDUAL CARTON
	3-309-246-00	(AEP)...SHEET, PROTECTION, ADAPTOR
	3-309-247-00	(UK)....SHEET, PROTECTION, ADAPTOR
	3-309-248-00	(UK)....SLEEVE, ADAPTOR
	3-309-249-00	(AEP)...SLEEVE, ADAPTOR
	3-309-250-00	CUSHION (LEFT)
	3-309-251-00	CUSHION (RIGHT)
	3-533-397-00	BAG, PRTECTION (SET)
	3-533-397-00	BAG, POLYETHYLENE
	3-701-632-00	BAG, POLYETHYLENE (MANUAL INSTRUCTION)
	3-703-539-01	INSTRUCTION, COMMONNESS
	3-773-176-11	MANUAL, INSTRUCTION
	3-773-191-41	(UK)...MANUAL INSTRUCTION
	8-893-527-00	TAPE, DEMO (CD-814)

MECHANISM SECTION

No.	Part No.	Description
301	3-309-001-00	SPRING
302	3-309-002-00	SPRING, TENSION
303	3-309-003-00	SPRING, TENSION
304	3-309-004-00	SPRING
305	3-309-005-00	SPRING, COMPRESSION
306	3-309-007-00	LEVER (T), REC
307	3-309-008-00	BELT, CAPSTAN
308	3-309-009-00	SPACER, MOTOR
309	3-309-010-00	LEVER, STOP BUTTON
310	3-309-011-00	LEVER, FWD BUTTON
311	3-309-012-00	LEVER, FF BUTTON
312	3-309-013-00	LEVER, REC BUTTON
313	3-309-014-00	LEVER, PAUSE BUTTON
314	3-309-015-01	PLATE, LOCK, BUTTON
315	3-309-018-00	LEVER (T), RECORD PREVENTION
316	3-309-019-00	LEVER, EJECT
317	3-309-024-00	RETAINER, T.M
318	3-309-026-00	LEVER, REW BUTTON
319	3-542-481-00	SPRING, TENSION
320	3-489-077-31	SCREW, MOTOR STOPPER
321	3-549-861-00	SPRING, TENSION
322	3-553-029-00	CUSHION, MOTOR
323	3-558-652-00	SPRING
324	3-558-708-01	WASHER, STOPPER
325	3-558-708-21	WASHER, STOPPER
326	3-558-754-31	PULLEY, MOTOR
327	3-561-824-11	LEVER, RP
328	3-561-825-11	LEVER, ERASE
329	3-561-831-11	LEVER (B), RECORD
330	3-561-839-11	LEVER, FF
331	3-561-845-11	LEVER, S.OFF RELEASE
332	3-561-849-00	LEVER (A), RECORD
333	3-561-852-00	SPRING
334	3-561-883-00	SPRING, TENSION
335	3-561-884-00	SPRING, TENSION
336	3-561-886-00	SPRING, COMPRESSION
337	3-561-897-00	SPRING, TENSION
338	3-563-909-11	LEVER (D), RECORD
339	3-563-931-00	GUIDE, PL
340	3-564-301-11	LEVER (A), RECORD PREVENTION
341	3-564-331-00	SPRING, TENSION
342	3-564-347-00	ARBOR, MOVABLE
343	3-564-348-00	ARBOR, FIXED
344	3-570-206-00	SPRING, TENSION
345	3-570-231-00	SPRING, TENSION

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

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

MECHANISM SECTION

No.	Part No.	Description
346	3-570-234-00	SPRING
347	3-570-235-00	SPRING
348	3-570-241-00	SPRING
349	3-573-467-00	RETAINER (D), THRUST
350	3-579-019-11	SPRING
351	•;3-638-192-00	RING, RETAINING (TYPE CS)
352	3-701-437-11	WASHER
353	3-701-438-21	WASHER
354	.....	
355	7-671-112-02	STEEL, BALL 2MM
356	7-671-113-01	BALL, STEEL 3MM
357	7-685-134-14	SCREW, PTP 2.6X8 TYPE2
358	7-685-534-24	SCREW, PTPWH 2.6X8, TYPE2
359	7-685-781-01	SCREW +PTT 2X4 (S)
360	7-685-791-09	SCREW, BTT 2.6X5
361	A-3109-019-A	FLYWHEEL ASSY
362	A-3110-008-A	PINCH ROLLER ASSY
363	A-3136-032-A	IDLER COMPLETE ASSY, FR
364	•;A-3164-265-A	RETAINER ASSY, LEVER

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	•;1-561-440-00	SOCKET, CONNECTOR 4P
502	•;1-602-735-00	PC BOARD
503	•;1-608-479-00	PC BOARD, HEAD
504	•;1-608-482-00	PC BOARD, BATT LED
505	•;1-608-484-00	PC BOARD, STEREO LED
506	•;A-3266-170-A	MOUNTED PCB, TUNER
507	•;A-3270-110-A	MOUNTED PCB, AUDIO
ATT	1-501-262-00	ANTENNA, TELESCOPIC
C1	1-101-882-00	CERAMIC 51PF 5% 50V
C14	1-102-865-00	CERAMIC 8PF 0.5PF 50V
C31	1-104-077-00	POLYSTYRENE 0.001MF 5% 50V
C49	1-104-069-00	POLYSTYRENE 470PF 5% 50V
C52	1-102-601-00	CERAMIC 24PF 5% 50V
C59	1-101-882-00	CERAMIC 51PF 5% 50V
C112	1-102-114-00	CERAMIC 470PF 10% 50V
C212	1-102-114-00	CERAMIC 470PF 10% 50V
CF1	1-527-808-00	FILTER, CERAMIC
CF2	1-527-808-00	FILTER, CERAMIC
CF3	1-527-996-00	FILTER, CERAMIC
CP1	1-231-720-00	FILTER, BANDPASS
CT1	1-151-410-00	CAP, TUNING, POLYETHYLENE
CT2	1-151-410-00	CAP, TUNING, POLYETHYLENE
CT3	1-151-410-00	CAP, TUNING, POLYETHYLENE
CT4	1-151-410-00	CAP, TUNING, POLYETHYLENE
CT5	1-141-227-00	TRIMAR, CERAMIC
CT6	1-141-227-00	TRIMAR, CERAMIC
CV1	1-151-410-00	CAP, TUNING, POLYETHYLENE
CV2	1-151-410-00	CAP, TUNING, POLYETHYLENE
CV3	1-151-410-00	CAP, TUNING, POLYETHYLENE
CV4	1-151-410-00	CAP, TUNING, POLYETHYLENE
D1	8-719-026-11	DIODE 1T261
D2	8-719-026-11	DIODE 1T261
D3	8-719-422-21	DIODE 1T22AM
D4	8-719-768-71	DIODE 1S2687S-1
D301	8-719-156-07	DIODE RD5.6E-8
D302	8-719-156-07	DIODE RD5.6E-8
D401	8-719-200-02	DIODE 10E2
D801	8-719-901-35	DIODE SLP135B
D901	8-719-901-35	DIODE SLP135B
HE	8-658-096-02	HEAD, ERASE EBF5-36
HRP	1-543-180-00	HEAD, RECORD/PLAYBACK

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 UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC1	8-759-110-15	IC UPC1018C-E
IC2	1-806-469-11	IC UPC1197C
IC301	1-806-283-11	IC LA316D
IC302	8-759-841-25	IC LA4125
IC401	1-806-467-00	IC BA338
J101	1-507-510-00	JACK, MIC/L
J201	1-507-510-00	JACK, MIC/R
J302	1-507-794-00	JACK, HEADPHONE
J303	1-507-815-00	JACK, DC TN 9V
L1	•;1-426-116-00	COIL, FM RF
L2	•;1-425-792-00	COIL, FM OSC
L3	•;1-409-293-00	COIL, AIR CORE
L4	1-402-005-00	ANTENNA, FERRITE-ROD (LW/MW)
L5	1-408-171-00	MICRO INDUCTOR 1UH
L101	1-408-701-00	MICRO INDUCTOR 3.3MMH
L201	1-408-701-00	MICRO INDUCTOR 3.3MMH
L301	1-408-177-00	MICRO INDUCTOR 3.3UH
L302	1-408-177-00	MICRO INDUCTOR 3.3UH
L303	1-408-702-00	MICRO INDUCTOR 1MMH
M101	8-814-194-20	MICROPHONE (C-1006C)
M201	8-814-194-20	MICROPHONE (C-1006C)
M901	A-3133-160-A	MOTOR ASSY
PL801	1-454-324-00	SOLENOID, PLUNGER
Q1	8-729-671-13	TRANSISTOR 2SC710-13
Q2	8-729-671-13	TRANSISTOR 2SC710-13
Q3	8-729-671-13	TRANSISTOR 2SC710-13
Q4	8-729-671-13	TRANSISTOR 2SC710-13
Q101	8-729-663-47	TRANSISTOR 2SC1364
Q102	8-729-663-47	TRANSISTOR 2SC1364
Q201	8-729-663-47	TRANSISTOR 2SC1364
Q202	8-729-663-47	TRANSISTOR 2SC1364
Q301	8-729-100-13	TRANSISTOR 2SC2001-L
Q302	8-729-100-13	TRANSISTOR 2SC2001-L
Q303	8-729-663-47	TRANSISTOR 2SC1364
Q401	8-729-663-47	TRANSISTOR 2SC1364
Q402	8-729-188-23	TRANSISTOR 2SD882-P
RV1	1-228-662-00	RES, ADJ, CARBON 5K (VCO)
RV301	1-228-806-00	RES, VAR, CARBON 50K/50K (TONE)
RV302	1-228-798-00	RES, VAR, CARBON 100K (BALANCE)
RV303	1-228-805-00	RES, VAR, CARBON 20K/20K (VOLUME)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-554-287-00	SWITCH, LEVER SLIDE (BAND)
S301	1-554-285-00	SWITCH, SLIDE (PB/REC)
S302	1-554-286-00	SWITCH, LEVER SLIDE (FUNCTION)
S303	1-554-178-00	SWITCH, PUSH (REC MUTE)
S304	1-552-370-00	SWITCH, SLIDE (ISS)
S305	1-552-804-00	SWITCH, LEAF (POWER)
S601	•;1-608-480-00	PC BOARD, LEAF SW (MOTOR)
S901	1-554-284-00	SWITCH, LEAF (AMS)
SP901	1-503-181-00	SPEAKER 3.2
SP902	1-503-181-00	SPEAKER 3.2
T1	1-403-872-00	I.F.T
T2	1-404-144-00	TRANSFORMER, DISCRI (FM)
T3	1-403-953-00	TRANSFORMER, DISCRIMINATOR
T4	1-404-423-00	IFT (SMALL TYPE)
T5	1-406-043-00	COIL, MW OSC
T6	1-404-425-00	COIL, IF
T301	1-433-206-21	TRANSFORMER, BIAS OSCILLATOR

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COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

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

**ELECTROLYTIC CAPACITORS**

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
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**

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**

RATING → : Use the high voltage rated one.					
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

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
0.015					→	→	1-131-397-00
0.022					→	→	1-131-398-00
0.033					→	→	1-131-399-00
0.047					→	→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	-	-	-	-	1-131-412-00	→	1-131-406-00
0.68	-	-	-	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	-	-	1-131-418-00	-	1-131-413-00	→	1-131-408-00
1.5	-	1-131-421-00	-	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	-	1-131-419-00	-	1-131-414-00	1-131-355-00	1-131-349-00
3.3	-	1-131-422-00	-	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	-	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	-	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	-
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00				
68	1-131-394-00	1-131-388-00	-	-			
100	1-131-395-00	-	-	-			



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
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			-	-	1-131-262-00	1-131-278-00
0.33			-	-	1-131-263-00	1-131-279-00
0.47			1-131-169-00	-	1-131-264-00	1-131-280-00
0.68			-	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	-	1-131-266-00	1-131-282-00
1.5		1-131-250-00	-	-	1-131-267-00	1-131-283-00
2.2		-	-	1-131-259-00	1-131-268-00	1-131-284-00
3.3		-	1-131-255-00	-	1-131-269-00	-
4.7		1-131-251-00	1-131-171-00	-	1-131-270-00	-
6.8		-	-	1-131-260-00	1-131-271-00	-
10	-	-	1-131-256-00	-	1-131-272-00	-
15	-	1-131-252-00	-	1-131-261-00	-	-
22	-	-	1-131-257-00	-	-	-
33	1-131-176-00	1-131-253-00	1-131-173-00	-	-	-
47	1-131-288-00	1-131-174-00	-	-	-	-
100	1-131-177-00	-	-	-	-	-

1/4 WATT CARBON RESISTORS

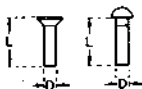
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:

P 3 x 10

L: Length in mm  
D: Diameter in mm  
Type of head



Indicated slotted-head only.  
Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft  
Reference designation

Reference Designation	Shape	Description	Remarks
<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		brazier-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	