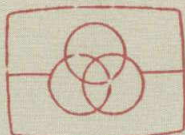


RM-44/44C



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*US Model
Canadian Model
AEP Model
UK Model
E Model*



RM-44



RM-44C

SYSTEM REMOTE CONTROLLER

SPECIFICATIONS

RM-44 Remote Controller

- Power Requirements:** Canadian model: 120 V ac, 60 Hz
US model: 120 V ac, 60 Hz
AEP model: 220 V ac, 50/60 Hz
UK model: 240 V ac, 50 Hz
E model: 110 – 120 or 220 – 240 V ac adjustable, 50/60 Hz
- Power Consumption:** 6 W
- AC Outlets:** AEP, E model: 1 switched, total 500 W
US, Canadian, UK model: 1 switched, total 700 W
- Infrared Rays Signal:** Range: up to 7 m away
up to 15° from center vertically
up to 30° from horizontally
- Dimensions:** Approx. 215 x 55 x 280 mm (w/h/d)
(8½ x 2¼ x 11 inches)
incl. projecting parts and controls
- Weight:** Approx. 1.7 kg (3 lbs 12 oz) net
Approx. 2.5 kg (5 lbs 9 oz) in shipping carton

RM-44C Remote Commander

- Power Consumption:** 3 V dc with four batteries IEC designation R6 (size AA)
- Remote Control System:** Infrared control
- Dimensions:** Approx. 65 x 20 x 165 mm (w/h/d)
(2½ x ¾ x 6½ inches)
- Weight:** Approx. 110 g (4 oz)

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES ÉCLATÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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®

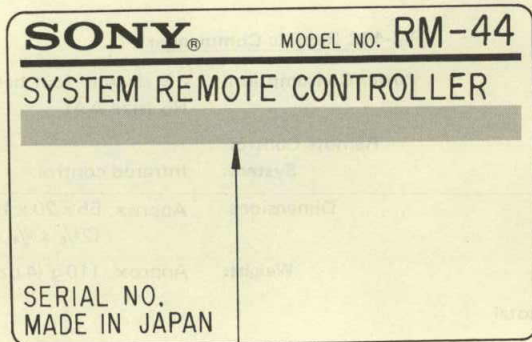
SERVICE MANUAL

FEATURES

- 1) Amp, tuner, player, timer, etc. system control function.
- 2) Main functions are color-coded.
- 3) Acoustic and muting controls make it appropriate for computer control.
- 4) Safe design to prevent Tape, Monitor, REC misoperation.
- 5) Tape, Monitor, Reverse functions.
- 6) STAND-BY and RECEIVED LED indications.
- 7) Mount bracket for easy rack mounting.

MODEL IDENTIFICATION

— Specification Label —



Canadian, US model:	AC 120 V ~	60 Hz	6 W
AEP model:	AC 220 V ~	50/60 Hz	6 W
UK model:	AC 240 V ~	50/60 Hz	6 W
E model:	AC 110 ~ 120 V, 220 ~ 240 V ~	50/60 Hz	6 W

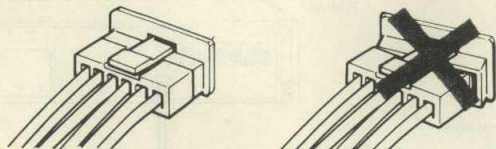
CONNECTION

REMOTE CONTROL CORD CONNECTION

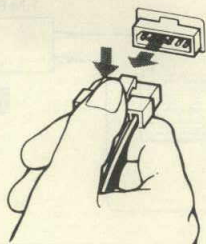
Control signals from the Remote Commander in the form of infrared rays are received with the remote control detector provided on the Remote Controller. The control signals should be delivered to all components with supplied cords.

Notes

- Insert the cords firmly by depressing the small tab on the plug. A loose connection may cause mis-operation of the remote control.

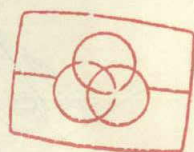


- To remove the cord from the connector, depress the small tab on the plug and pull it out. Never pull out the plug forcibly.



Notice on connecting the RM-44 to the tuner

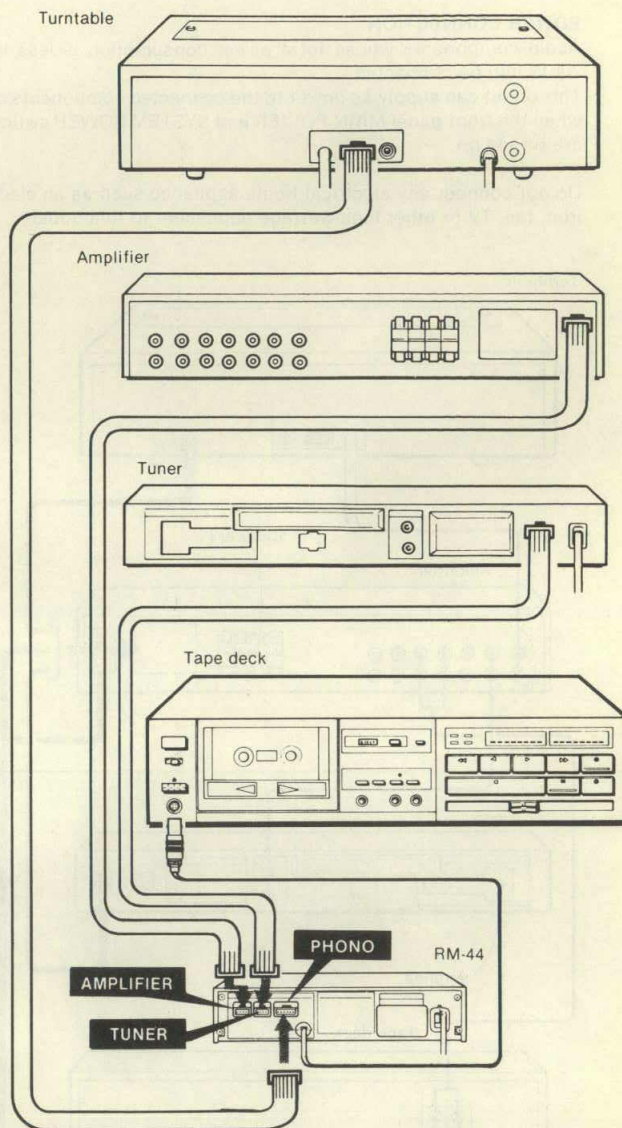
Since there is a variety of cords—such as speaker cords, power cord, connecting cords—around the rear panel terminals of the tuner, you should maintain a moderate separation between the bar antenna and the cords. This is because the tuner may produce a noise from the direct touch of the cords on the bar antenna.



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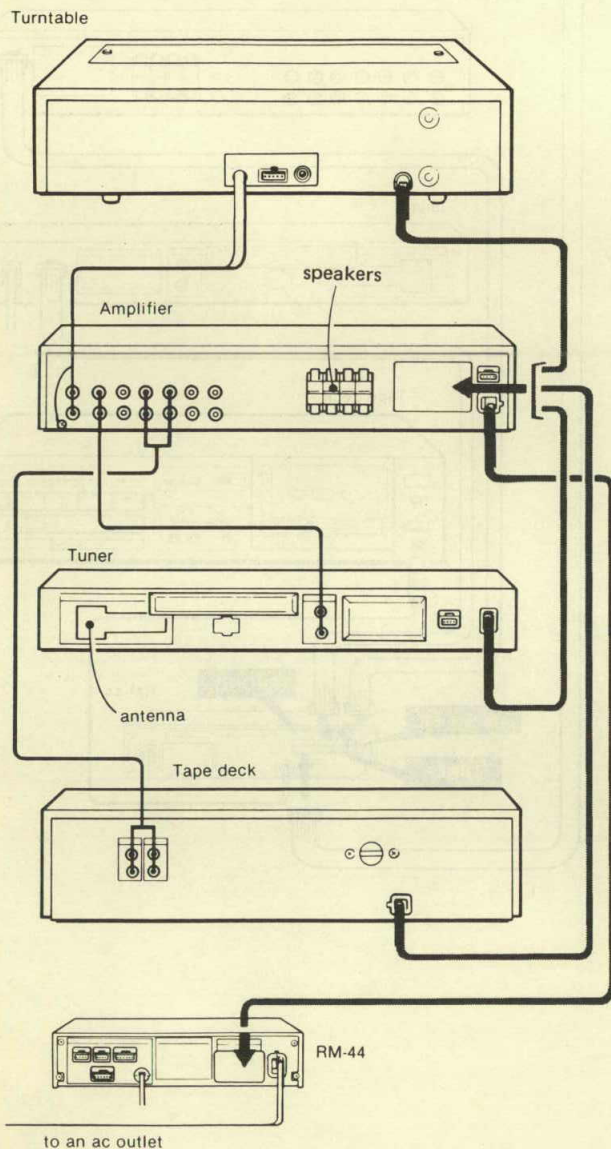


POWER CONNECTION

Audio components whose total power consumption is less than 700 W can be connected.

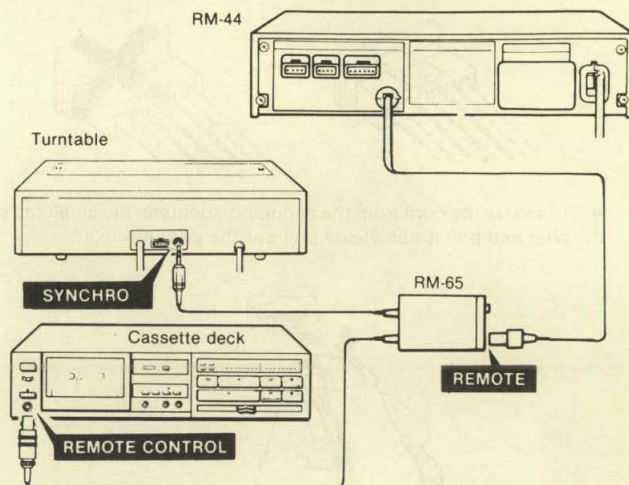
This outlet can supply ac power to the connected components only when the front panel MAIN POWER and SYSTEM POWER switches are turned on.

Do not connect any electrical home appliance such as an electric iron, fan, TV or other high-wattage equipment to this outlet.

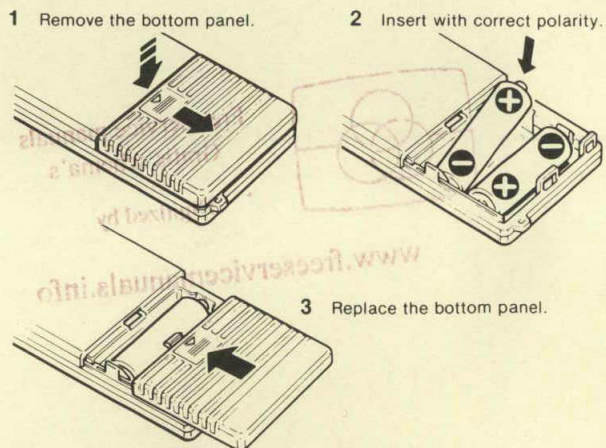
**SYNCHRONIZED OPERATION OF THE TURNTABLE AND THE CASSETTE DECK**

When the synchronized operation of the turntable and the cassette deck is remotely done, connect the turntable, the cassette deck and the RM-65 synchro remote control unit (optional) as illustrated below.

For detailed information about synchronized operation, refer to the instruction manual of the turntable system.

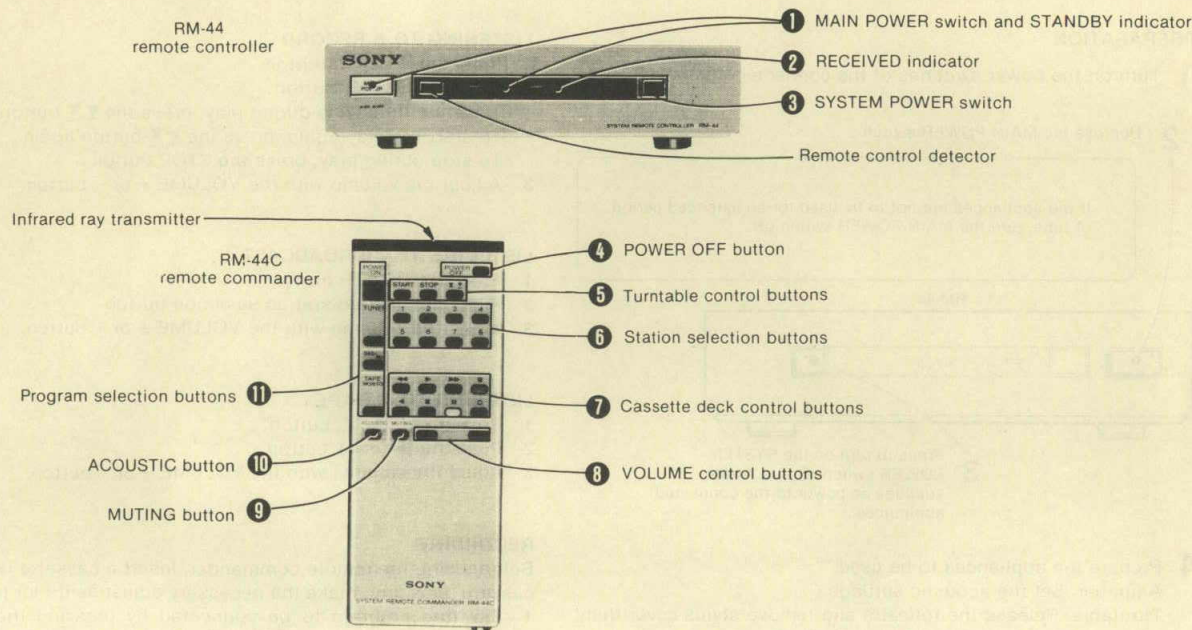
**BATTERY****INSTALLATION**

The Remote Commander operates on 3 V dc, with two batteries IEC designation R6 (size AA). Insert the batteries with correct polarity.

**REPLACING THE BATTERIES**

In normal operation, battery life is up to about half a year. If the range over which the remote control will operate becomes noticeable short, replace both batteries with new ones.

LOCATION AND FUNCTION OF CONTROLS

**1 MAIN POWER switch and STANDBY indicator**

Depress this button to turn the RM-44 remote controller on. If the power has not been turned on, even if you press the SYSTEM POWER switch, you cannot turn the connected appliances on or operate them with the Remote Commander.

2 RECEIVED indicator

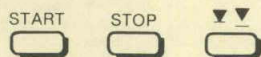
When the signals from the Remote Commander are received, this indicator will blink.

3 SYSTEM POWER switch

Press this button to turn the connected appliances on and off. You can operate the switch from a distance with the Remote Commander.

4 POWER OFF button

Press this button to turn the connected appliances off.

5 Turntable control buttons

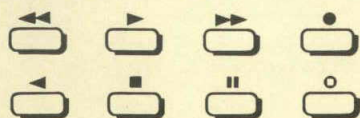
START button: Press to start the record playing.

STOP button: Press to stop the record playing.

V V button: Press to raise or lower the tonearm.

6 Station selection buttons

Press the appropriate button to call up a pre-memorized station.

7 Cassette deck control buttons

◀◀ (fast-reverse) buttons: Press to advance the tape rapidly to the left.

▶ (forward) button: Press to play back the tape to the right.

▶▶ (fast-forward) button: Press to advance the tape rapidly to the right.

• (record) button: Press the ▶ button while pressing this button to start recording.

◀ (reverse) button: Press to play back the tape to the left.

■ (stop) button: Press to stop the tape.

|| (pause) button: Press to momentarily pause during recording or playback. To resume operation, press this button again.

○ (record muting) button: Press this button to avoid recording unwanted material or to provide an interspacing during recording.

8 VOLUME control buttons

Press these buttons to adjust the volume: the + button to increase the volume and the - button to decrease it. While the button is kept pressed, the volume is continually increased or decreased.

9 MUTING button

When the MUTING button is depressed, the overall listening sound level is reduced by 20 dB. When the button is released by depressing it again, you can restore exactly the same listening level as before.

This feature is useful when you lower the tonearm onto the record or when you answer the telephone.

10 ACOUSTIC button

Press to recall the acoustic settings. Each time the button is pressed, the setting will change in sequence 1, 2, FLAT.

11 Program selection buttons

Press the appropriate button to turn a connected appliance on and to change the program.

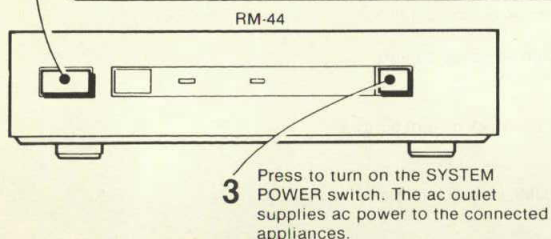
REMOTE CONTROL OPERATION

PREPARATION

- 1 Turn on the power switches of the connected appliances.

- 2 Depress the MAIN POWER switch

If the appliances are not to be used for an extended period of time, turn the MAIN POWER switch off.



- 3 Press to turn on the SYSTEM POWER switch. The ac outlet supplies ac power to the connected appliances.

- 4 Prepare the appliances to be used.
 Amplifier: Set the acoustic settings.
 Turntable: Release the tonearm and remove stylus cover then put on a record and select a record speed.
 Tuner: Memorize the stations with the preset station buttons of a tuner.
 Cassette deck: Insert a cassette.

Now you will be able to listen to a desired program source by pressing the buttons on the RM-44C system remote commander.

LISTENING TO A RECORD

- 1 Press the PHONO button.
- 2 Press the START button.
 To lift up the stylus during play, press the $\nabla\nabla$ button.
 To start the play again, press the $\nabla\nabla$ button again.
 To stop during play, press the STOP button.
- 3 Adjust the volume with the VOLUME + or - button.

LISTENING TO A BROADCAST

- 1 Press the TUNER button.
- 2 Press the desired station selection button.
- 3 Adjust the volume with the VOLUME + or - button.

LISTENING TO A TAPE

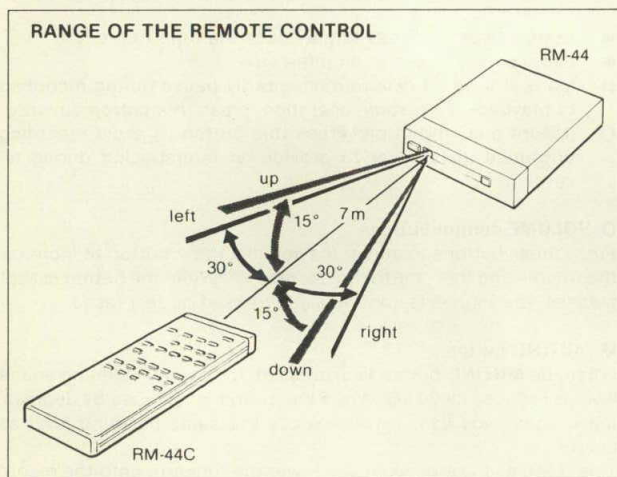
- 1 Press the TAPE 1 MONITOR button.
- 2 Press the $\blacktriangleright$ or $\blacktriangleleft$ button.
- 3 Adjust the volume with the VOLUME + or - button.

RECORDING

Before using the remote commander, Insert a cassette tape in the cassette deck and make the necessary adjustments for recording.

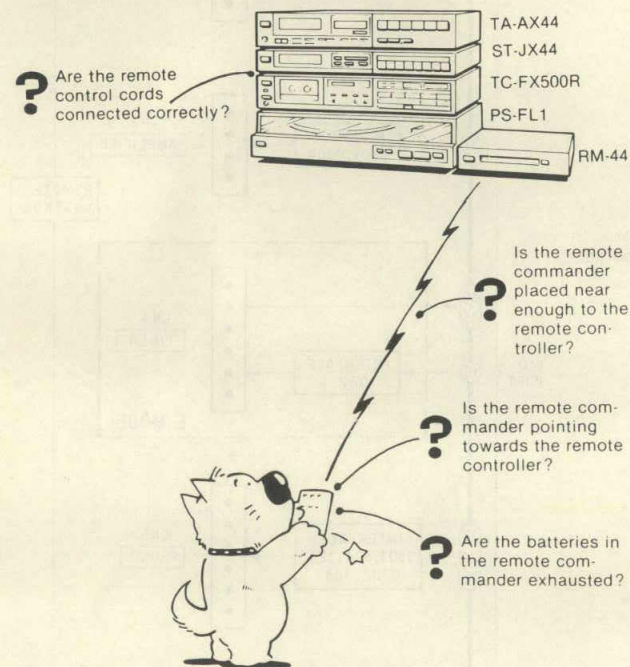
- 1 Play the program to be connected by pressing the buttons noted in "Listening to a broadcast" or "Listening to a record".
- 2 Press the $\blacktriangleright$ button while pressing the $\bullet$ button.

RANGE OF THE REMOTE CONTROL



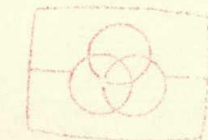
TROUBLE CHECKS

The following trouble checks will help you correct the most common problems encountered in remote control operations. Should any problems persist after you have made these checks, consult your nearest Sony service facility. Before proceeding with these trouble checks, first refer to the connections and the operating procedures.



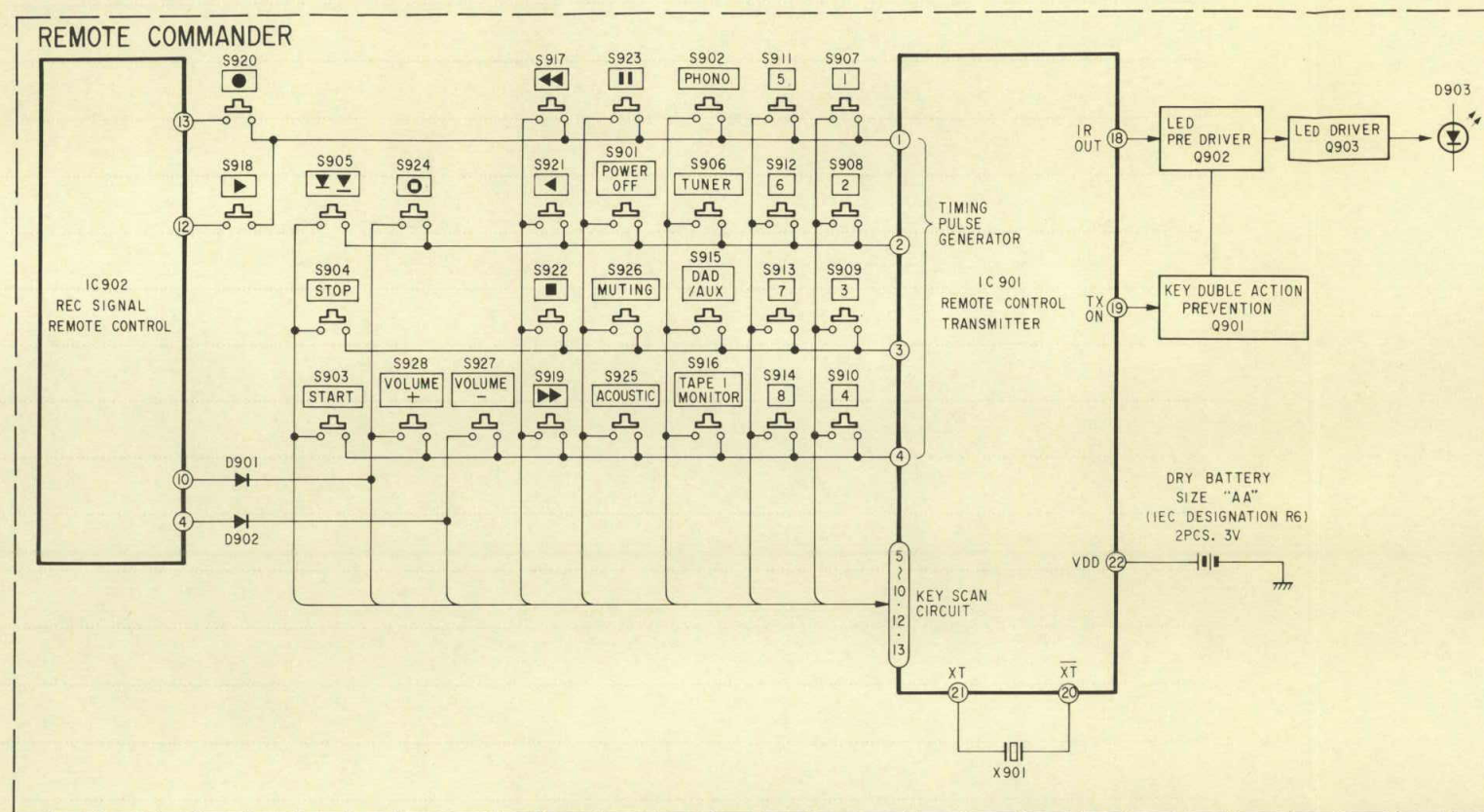
MEMO

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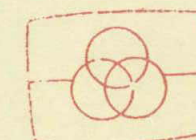
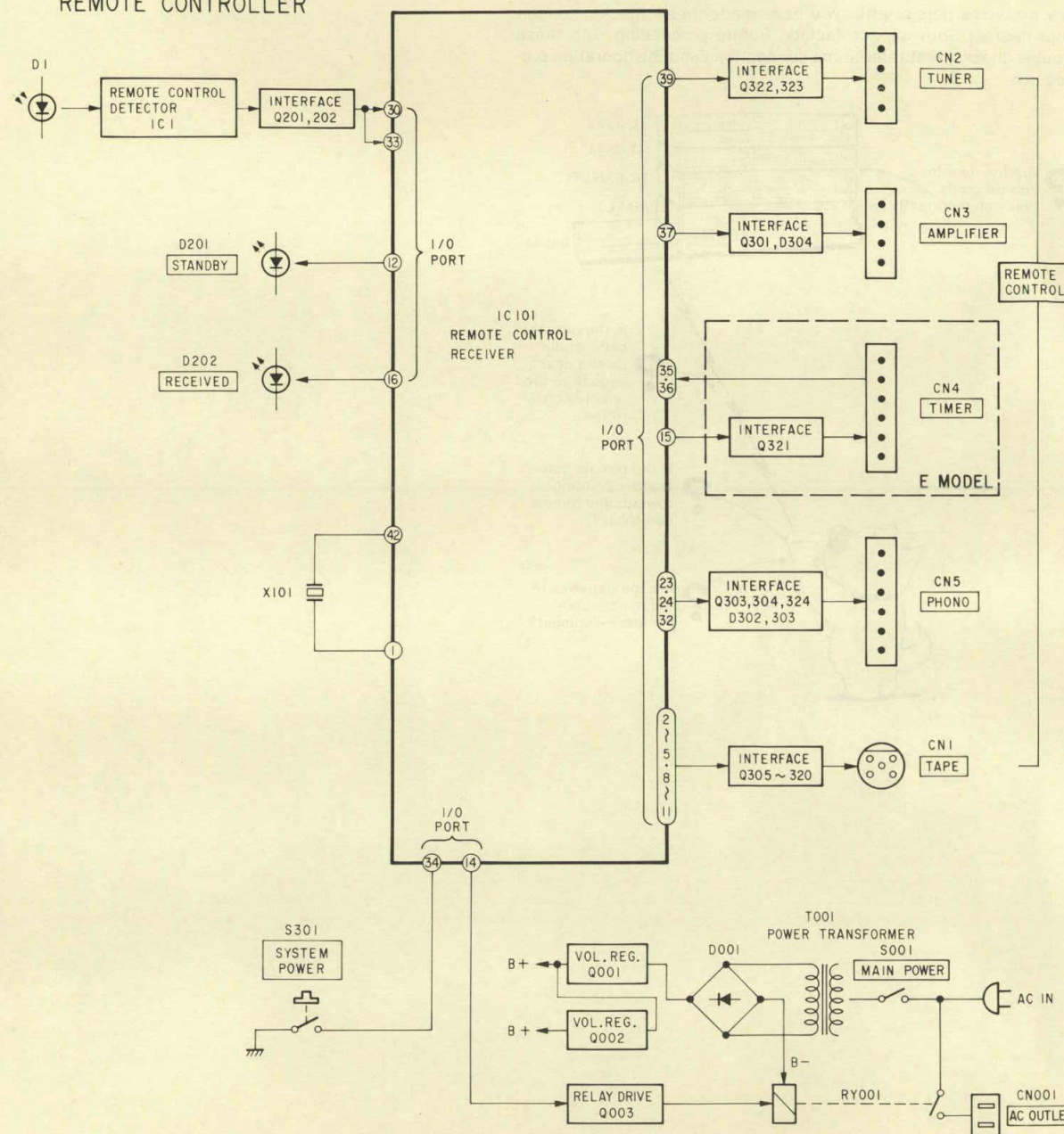


SECTION 1 OUTLINE

BLOCK DIAGRAM



REMOTE CONTROLLER



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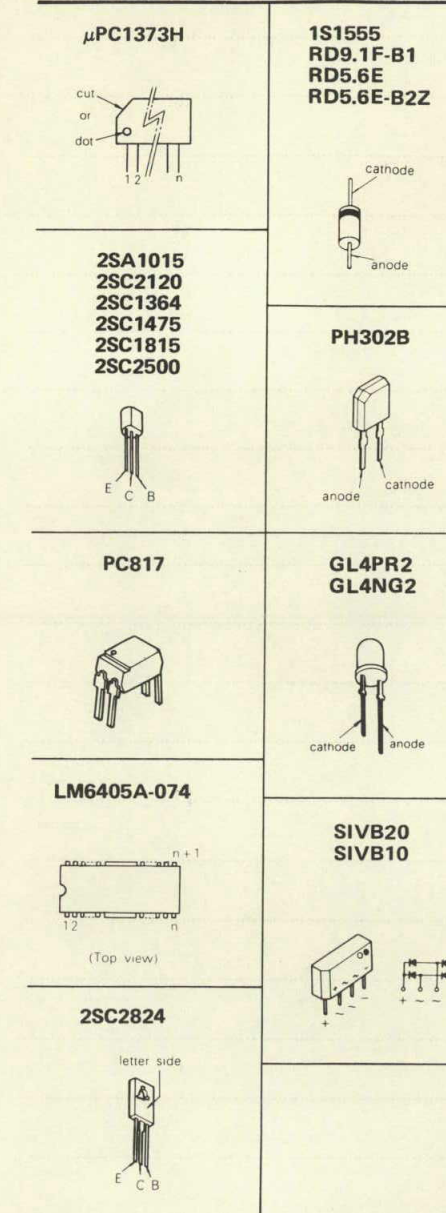
SECTION 3
DIAGRAMS

RM-44/44C RM-44/44C

RM-44/44C RM-44/44C

3-1. MOUNTING DIAGRAM - RM-44 -

Semiconductor Lead Layouts



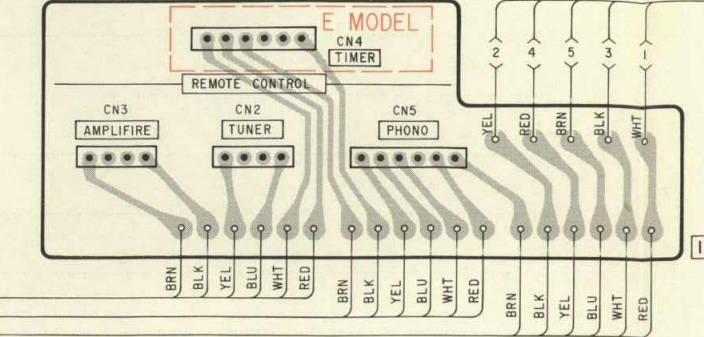
Note:
● : parts extracted from the component side.
● : B + pattern
● : B - pattern

D	Q, IC
001	
001	
002	
304	318
301	317
308	307
004	323
003	314
320	002
310	319
322	309
306	305
IC1	311
312	316
315	
302	003
303	321
304	
324	
IC101	
202	201
202	

BRN BLK YEL BLU WHT RED
CN6 CN7 CN8

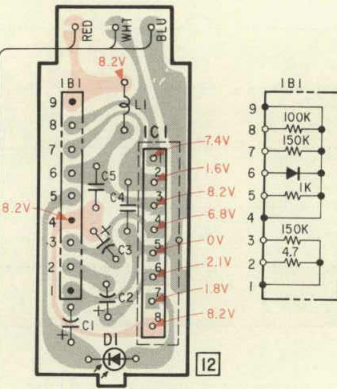
CHASSIS

[CONNECTOR BOARD]

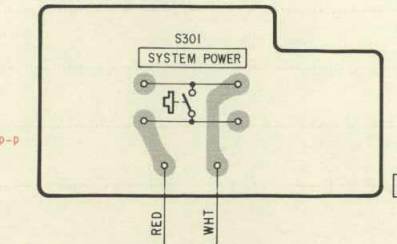


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[N BOARD]



[SW BOARD]



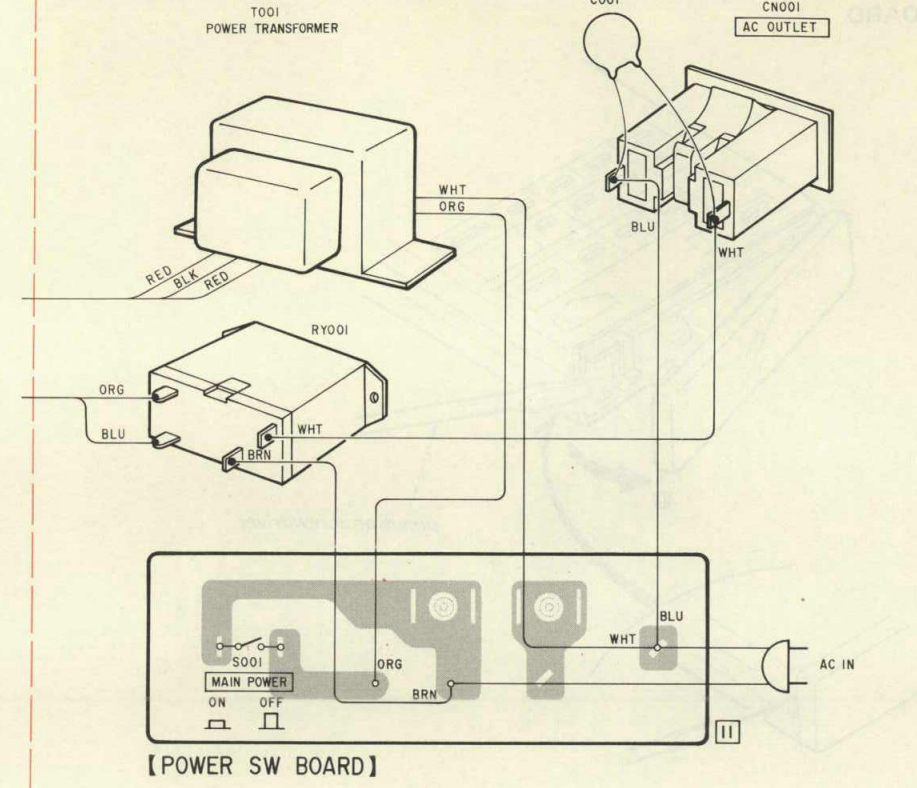
[LED-1 BOARD]



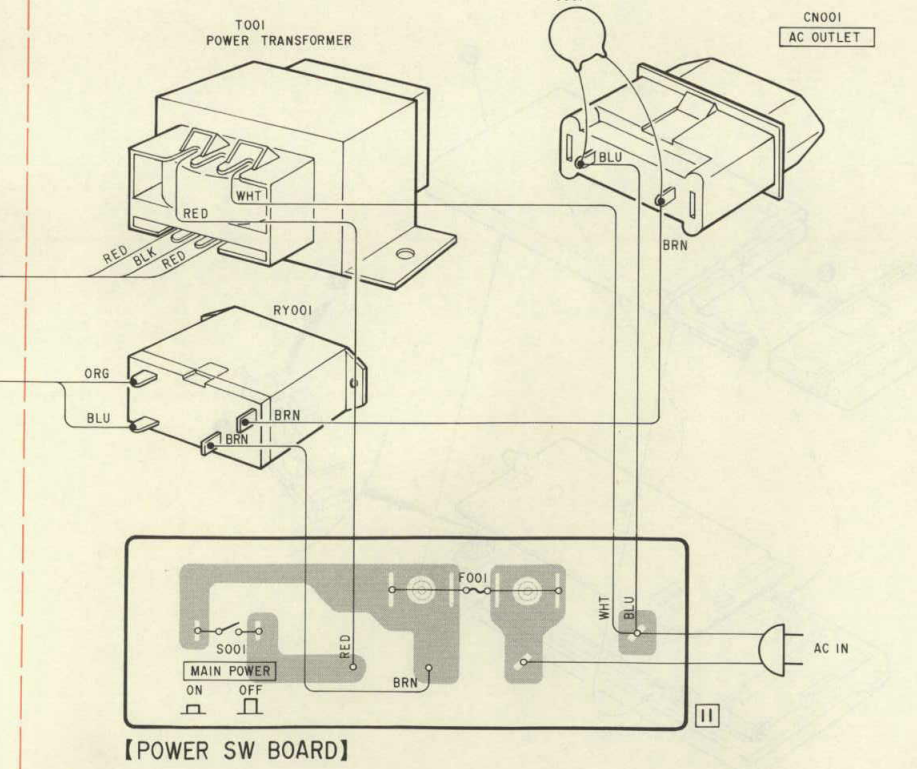
[LED-2 BOARD]



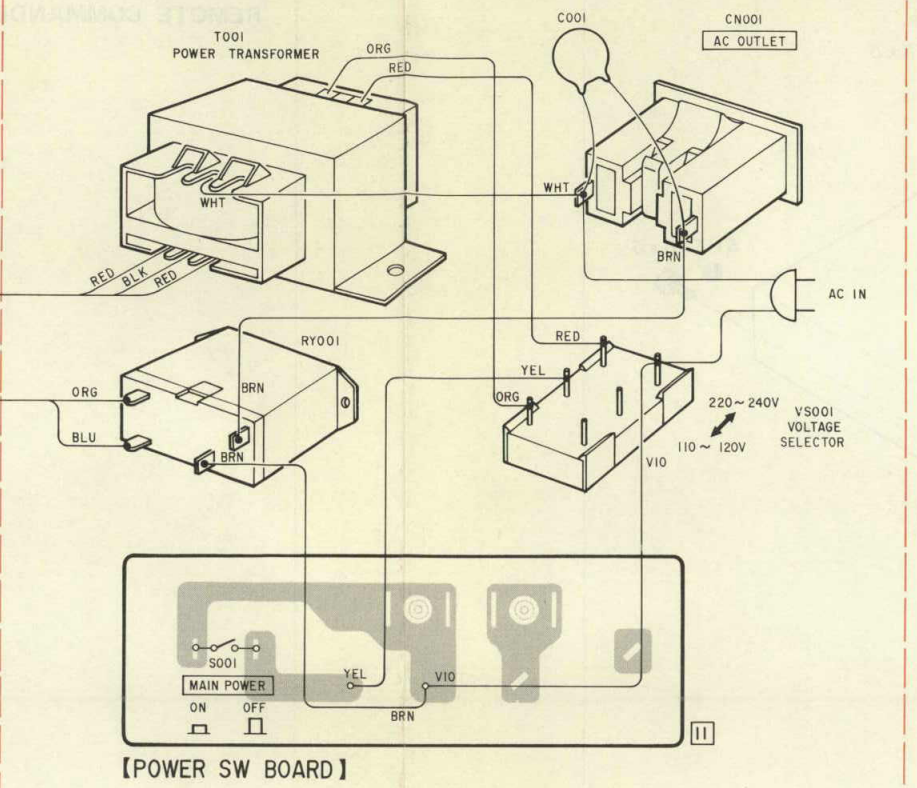
US, CANADIAN MODEL



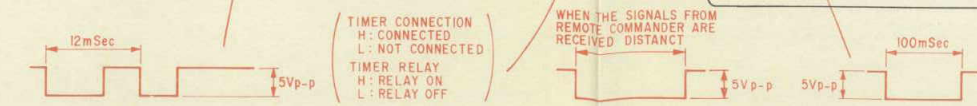
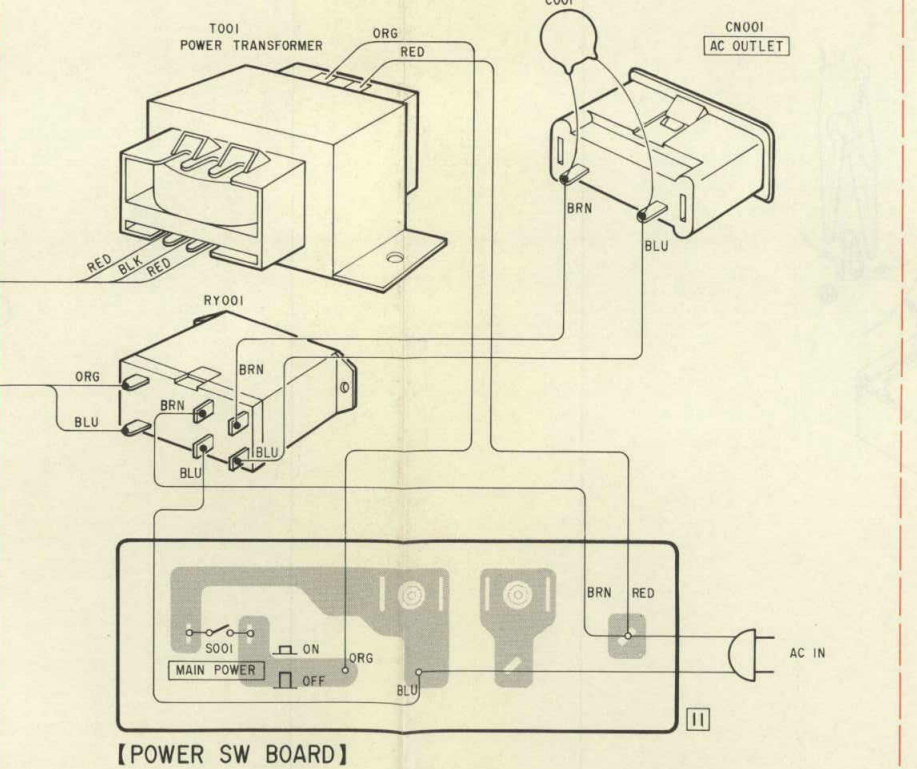
AEP MODEL



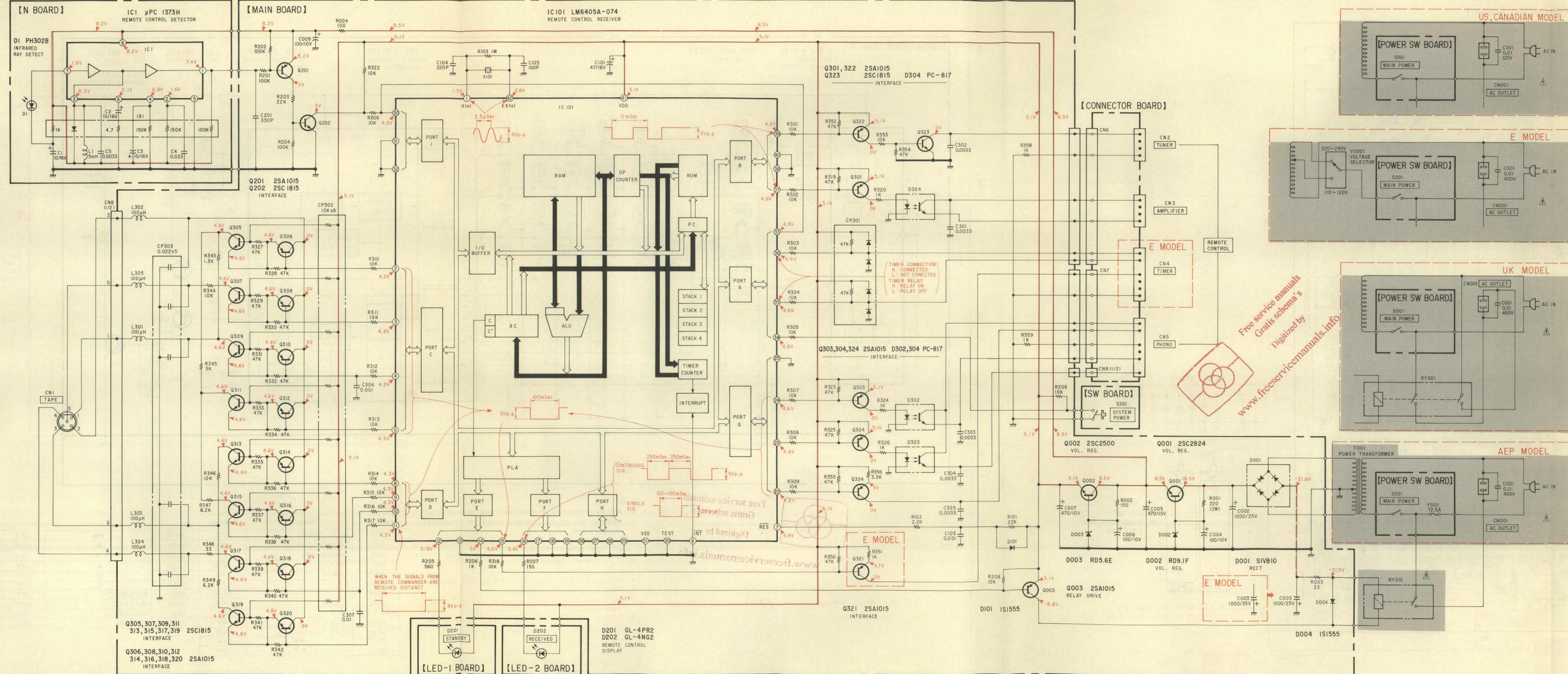
E MODEL



UK MODEL



3-2. SCHEMATIC DIAGRAM - RM-44 -



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
- Panel designation.
- B+ bus.
- B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.

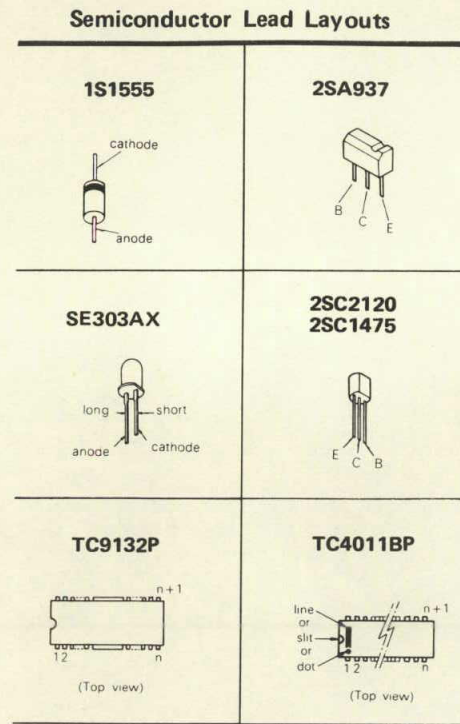
Switches

Ref. No.	Switch	Position
S001	MAIN POWER	OFF
S301	SYSTEM POWER	OFF
S901	POWER OFF	OFF
S902	PHONO	OFF
S903	START	OFF
S904	STOP	OFF
S905	TUNER	OFF
S906	TUNER	OFF
S907 ~ 914	1 ~ 8	OFF
S915	DAD/AUX	OFF
S916	TAPE 1 MONITOR	OFF
S917		OFF
S918		OFF
S919		OFF
S920		OFF
S921		OFF
S922		OFF
S923		OFF
S924		OFF
S925	ACOUSTIC	OFF
S926	MUTING	OFF
S927	VOLUME -	OFF
S928	VOLUME +	OFF

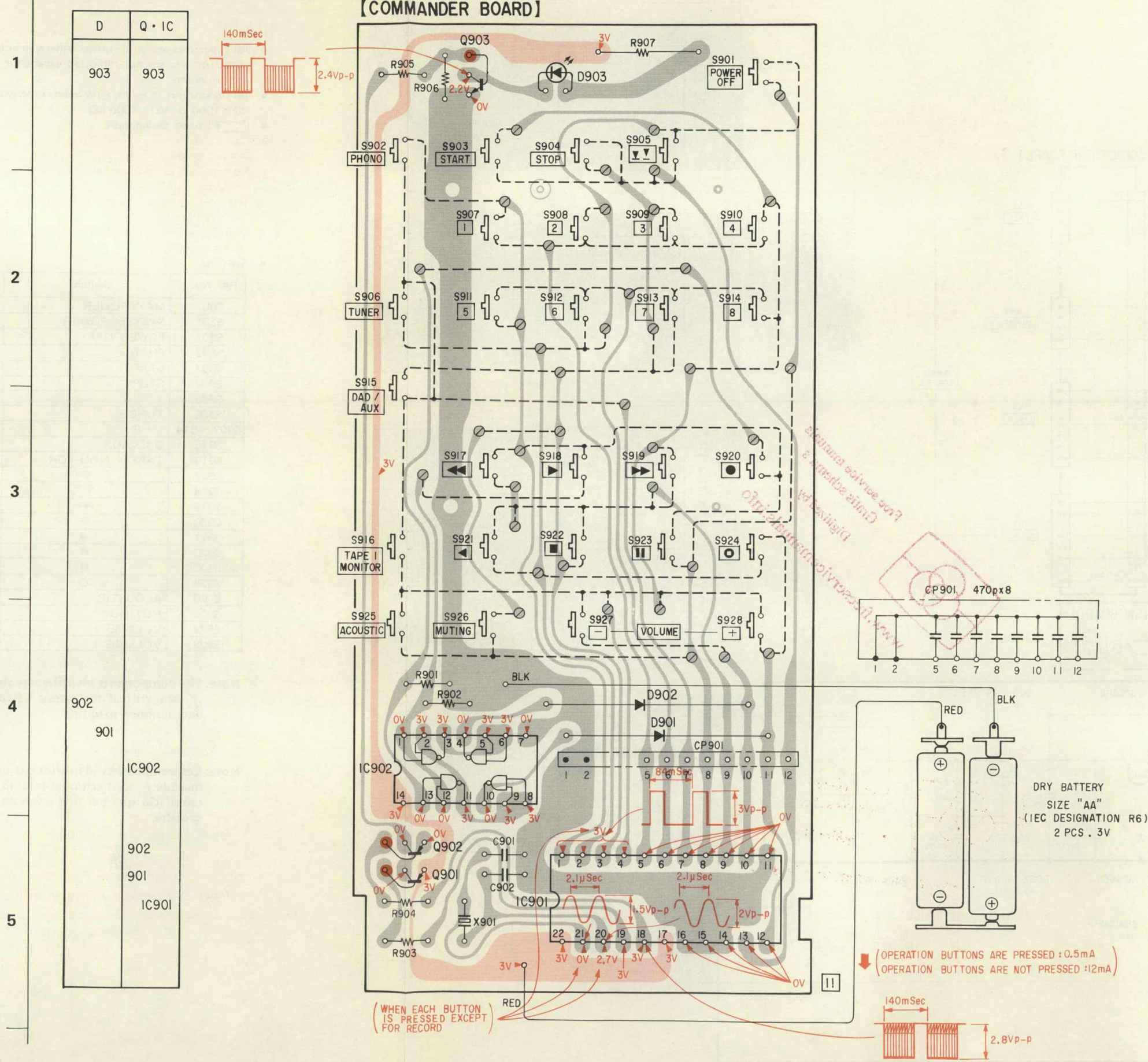
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

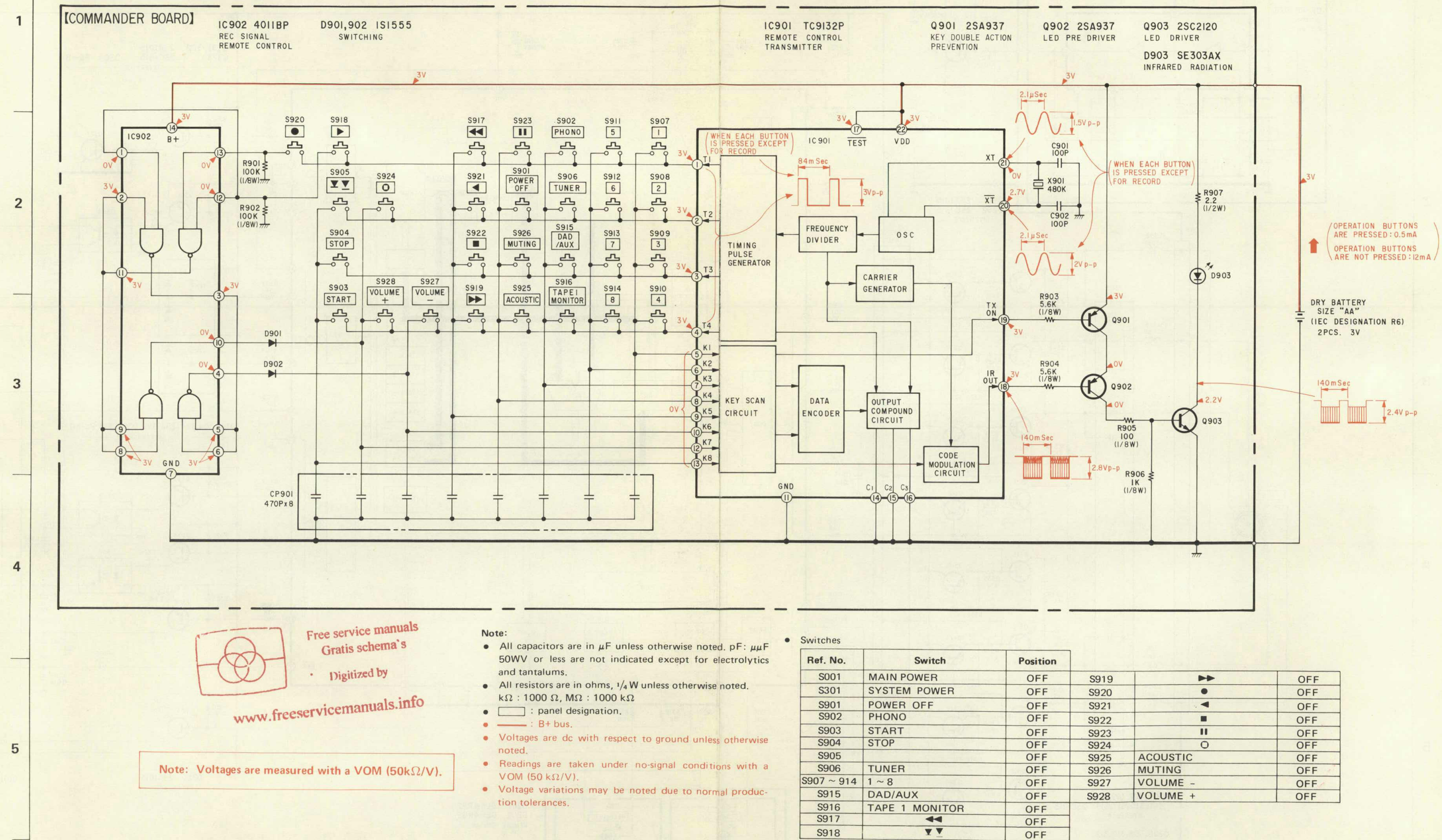
Note: Voltages are measured with a VOM (50 $\text{k}\Omega/\text{V}$).



3-3. MOUNTING DIAGRAM - RM-44C -



3-4. SCHEMATIC DIAGRAM - RM-44C -



SECTION 4

EXPLODED VIEWS AND PARTS LIST

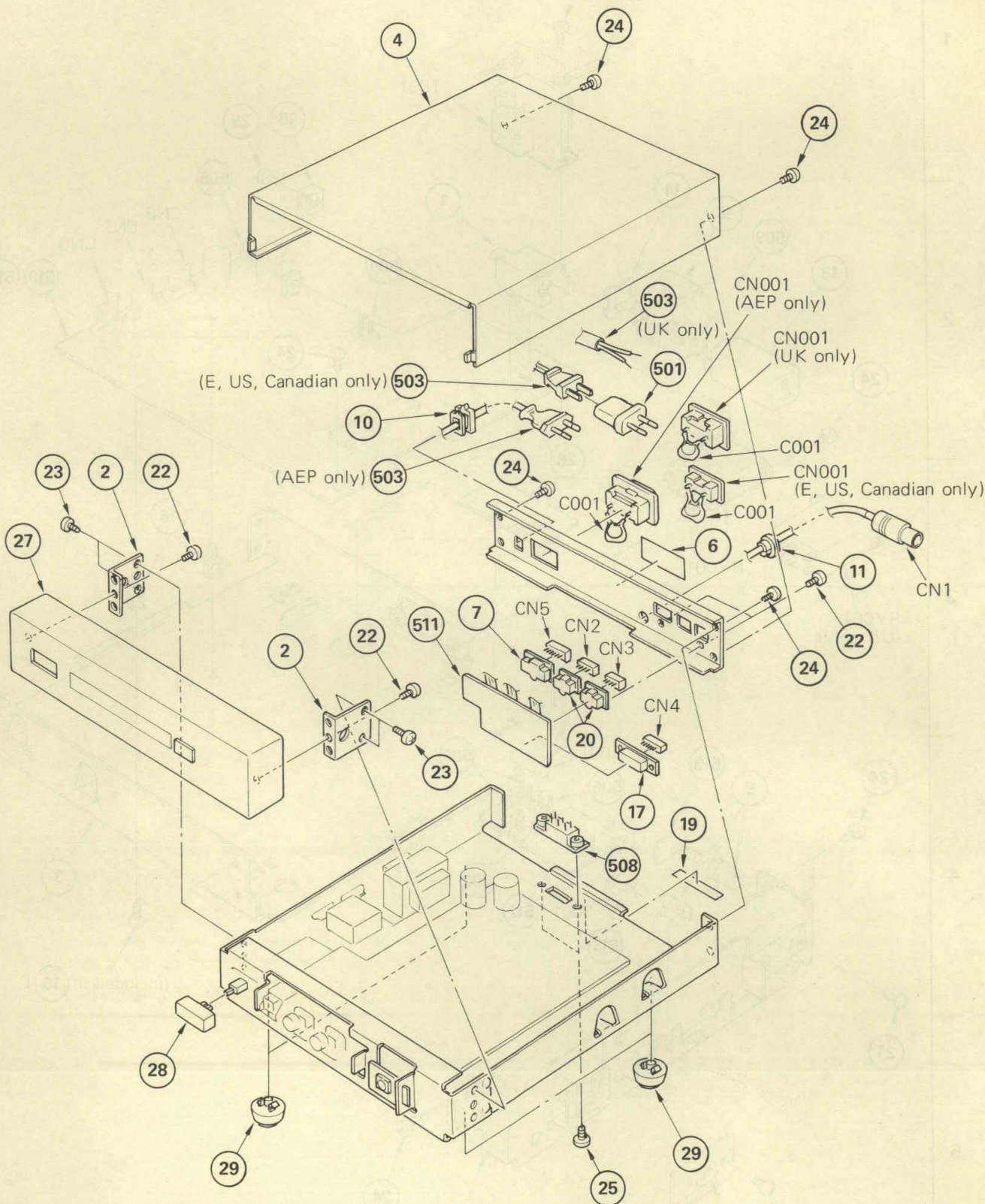
A

B

C

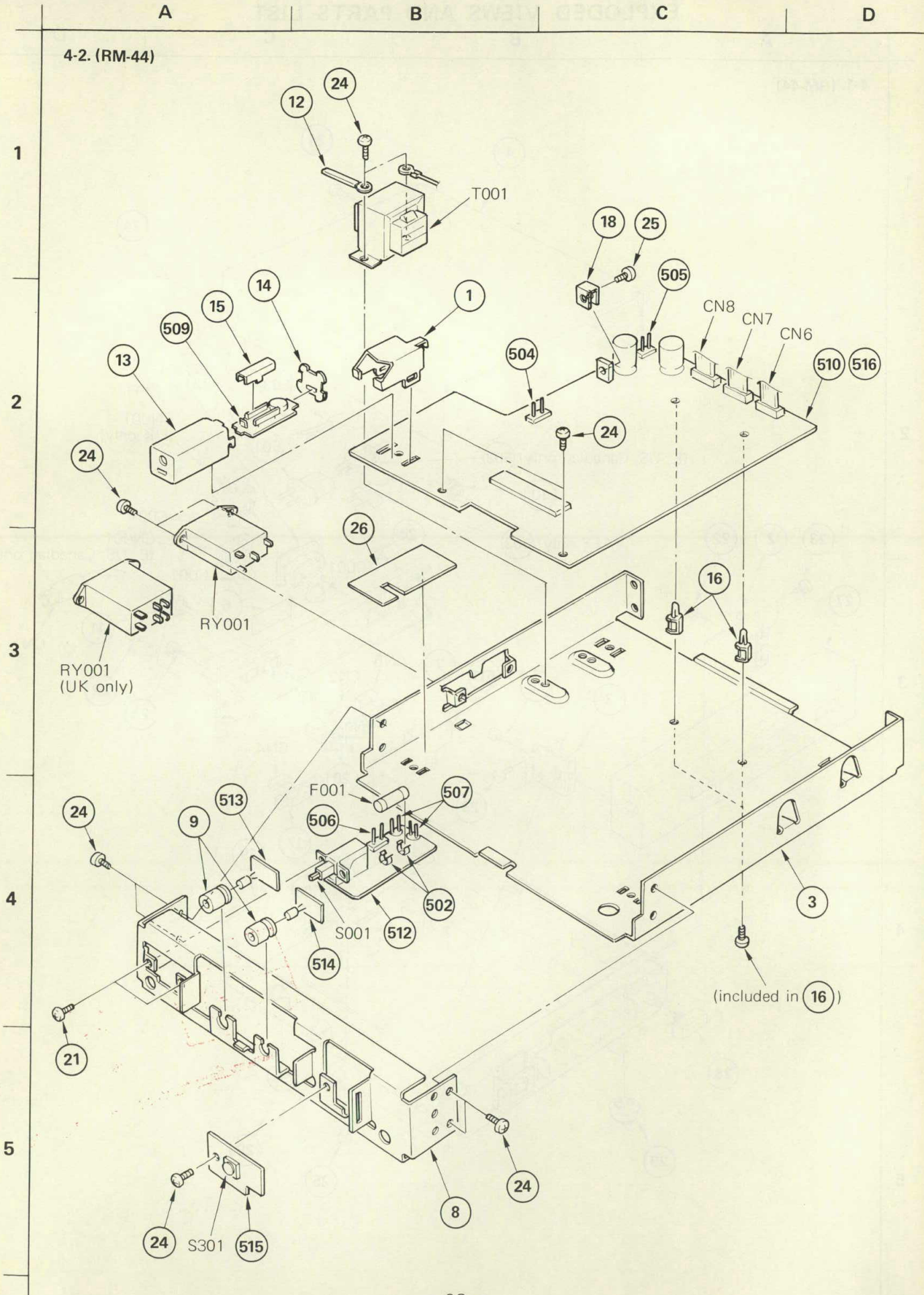
D

4-1. (RM-44)

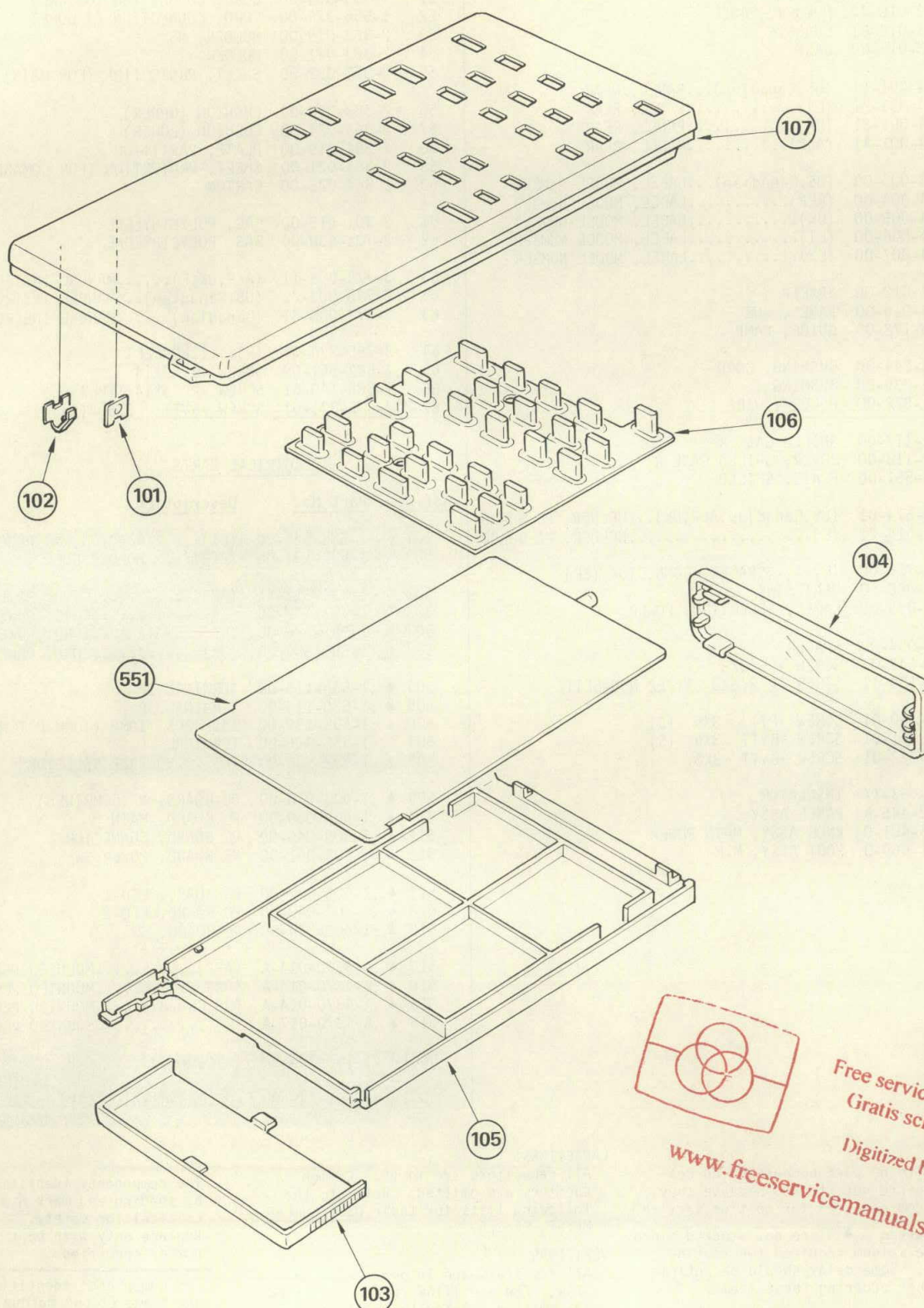


RM-44/44C

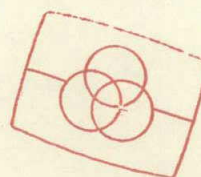
4-2. (RM-44)



4-3. (RM-44C)



108 A-4372-008-A
COMMANDER Ass'y (including 101 - 107 , 551)



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GENERAL SECTION

No.	Part No.	Description
1	2-196-417-00	HOLDER
2	2-363-010-00	HOLDER, PANEL
3	2-363-014-01	CHASSIS
4	2-363-015-00	CASE
5	2-364-001-11	(US,Canadian)...PANEL, REAR
5	2-364-001-21	(E).....PANEL, REAR
5	2-364-001-31	(UK).....PANEL, REAR
5	2-364-001-41	(AEP).....PANEL, REAR
6	2-364-003-00	(US,Canadian)...LABEL, MODEL NUMBER
6	2-364-004-00	(AEP).....LABEL, MODEL NUMBER
6	2-364-005-00	(UK).....LABEL, MODEL NUMBER
6	2-364-006-00	(E1).....LABEL, MODEL NUMBER
6	2-364-007-00	(E2).....LABEL, MODEL NUMBER
7	2-364-012-00	SPACER
8	2-364-016-00	PANEL, SUB
9	3-453-178-00	GUIDE, LAMP
10	3-703-244-00	BUSHING, CORD
11	3-655-235-00	BUSHING
12	3-701-822-00	HOLDER, WIRE
13	4-342-117-00	SHIELD CASE R
14	4-342-118-00	COVER, SHIELD CASE R
15	4-348-551-00	PLATE, SHIELD
16	4-861-614-01	(US,Canadian,AEP,UK)...HOLDER, PC BOARD
16	4-861-614-21	(E).....HOLDER, PC BOARD
17	4-864-715-00	(E).....SPACER, CONNECTOR (6P)
18	4-866-080-00	HEAT SINK
19	4-872-073-00	LABEL, SELECTION, POWER
20	4-882-034-00	SPACER
21	7-682-647-01	SCREW +PS 3X6
22	7-685-134-11	SCREW +P 2.6X8 TYPE2 NON-SLIT
23	7-685-750-01	SCREW +PTT 3X5 (S)
24	7-685-871-01	SCREW +BVTT 3X6 (S)
25	7-685-872-01	SCREW +BVTT 3X8
26	9-911-863-XX	INSULATOR
27	A-4322-445-A	PANEL ASSY
28	X-2196-401-0	KNOB ASSY, MAIN POWER
29	X-3701-069-0	FOOT ASSY, M.F

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

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

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

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
51	1-555-054-00	CORD, CONNECTION (6 CORE)
52	1-556-372-00	CORD, CONNECTION (4 CORE)
53	2-363-019-00	HOLDER, HS
54	2-363-021-00	HOLDER
55	2-363-022-00	SHEET, PROTECTION (FOR MAIN)
56	2-363-023-00	CUSHION (UPPER)
57	2-363-024-00	CUSHION (LOWER)
58	2-364-019-00	PLATE, PARTITION
59	2-364-021-00	SHEET, PROTECTION (FOR COMANDER)
60	2-364-023-00	CARTON
61	3-701-613-00	BAG, POLYETHYLENE
62	3-701-630-00	BAG, POLYETHYLENE
63	3-773-003-11	(AEP,UK,E).....MANUAL INSTRUCTION
63	3-773-003-21	(US,Canadian)...MANUAL INSTRUCTION
63	3-773-003-31	(Canadian).....MANUAL INSTRUCTION
64	3-795-374-01	(E).....LEAFLET
65	7-682-551-09	SCREW +B 3X14
66	7-685-149-61	SCREW +P 3X14 TYPE4
67	7-685-871-01	SCREW +BVTT 3X6 (S)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501 ▲	1-526-565-00	(E1).....ADAPTOR, AC PLUG
502 ▲	1-533-131-00	(AEP).....HOLDER FUSE
503 ▲	1-534-817-XX	(AEP).....CORD, POWER, EULO PLUG
503 ▲	1-551-472-00	(E).....CORD, POWER
503 ▲	1-551-628-00	(US,Canadian)...CORD, POWER
503 ▲	1-551-884-00	(UK).....CORD, POWER
504	1-535-115-00	TERMINAL 2P
505	1-535-116-00	TERMINAL 3P
506	1-535-139-00	BASE POST 19MM (10MM PITCH)
507	1-535-416-00	TERMINAL
508 ▲	1-552-535-00	(E).....VOLTAGE SELECTOR
509	1-603-976-00	PC BOARD, N (COMBINED)
510	1-608-039-00	PC BOARD, MAIN
511	1-608-040-00	PC BOARD, CONNECTOR
512	1-608-041-00	PC BOARD, POWER SW
513	1-608-042-00	PC BOARD, LED-1
514	1-608-043-00	PC BOARD, LED-2
515	1-608-044-00	PC BOARD, SW
516	A-4370-014-A	(AEP).....MOUNTED PCB, CONTROL
516	A-4370-014-A	(UK).....MOUNTED PCB, CONTROL
516	A-4370-014-A	(US,Canadian)...MOUNTED PCB, CONTROL
516	A-4370-017-A	(E).....MOUNTED PCB, CONTROL
C001 ▲	1-161-744-00	(AEP,UK,E).....CAP, CERAMIC 0.01MF P% 400V
C001 ▲	1-161-749-00	(US,Canadian)...CAP, CERAMIC 0.01MF P% 125V

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CN001A	1-526-609-00	(US,E).....OUTLET, AC
CN001A	1-526-636-00	(UK).....OUTLET, AC
CN001A	1-526-694-00	(AEP).....OUTLET, AC
CN001A	1-526-882-00	(Canadian)....OUTLET, AC
CN1	1-556-373-00	CORD, CONNECTION
CN2	1-560-039-00	CONNECTOR PIN 4P
CN3	1-560-039-00	CONNECTOR PIN 4P
CN4	1-508-994-00	(E)..... CONNECTOR PIN 6P
CN5	1-508-994-00	CONNECTOR PIN 6P
CN6	1-560-605-00	PIN, CONNECTOR 6P
CN7	1-560-605-00	PIN, CONNECTOR 6P
CN8	1-560-605-00	PIN, CONNECTOR 6P
D1	8-719-110-32	DIODE PH302B
D001	8-719-511-20	DIODE S1VB20
D002	8-719-160-42	DIODE RD9.1FB1
D003	8-719-156-25	DIODE RD5.6E-B2Z
D004	8-719-815-55	DIODE 1S1555
D101	8-719-815-55	DIODE 1S1555
D201	8-719-902-08	DIODE GL-4PR2
D202	8-719-902-19	DIODE GL-4NG2
D302	8-719-902-56	DIODE PC817
D303	8-719-902-56	DIODE PC817
D304	8-719-902-56	DIODE PC817
F001A	1-532-286-00	(AEP).....FUSE, TIME-LAG 2
IB1	1-232-004-00	ENCAPSULATED COMPONENT
IC1	8-759-113-73	IC UPC1373H
IC101	8-759-800-25	IC LM6405A-074
L1	1-404-310-00	COIL 5mH
Q001	8-729-282-42	TRANSISTOR 2SC2824
Q002	8-729-200-20	TRANSISTOR 2SC2500
Q003	8-729-201-52	TRANSISTOR 2SA1015
Q201	8-729-201-52	TRANSISTOR 2SA1015
Q202	8-729-663-47	TRANSISTOR 2SC1364
Q301	8-729-201-52	TRANSISTOR 2SA1015
Q303	8-729-201-52	TRANSISTOR 2SA1015
Q304	8-729-201-52	TRANSISTOR 2SA1015
Q305	8-729-663-47	TRANSISTOR 2SC1364
Q306	8-729-201-52	TRANSISTOR 2SA1015
Q307	8-729-663-47	TRANSISTOR 2SC1364
Q308	8-729-201-52	TRANSISTOR 2SA1015
Q309	8-729-663-47	TRANSISTOR 2SC1364
Q310	8-729-201-52	TRANSISTOR 2SA1015
Q311	8-729-663-47	TRANSISTOR 2SC1364
Q312	8-729-201-52	TRANSISTOR 2SA1015
Q313	8-729-663-47	TRANSISTOR 2SC1364
Q314	8-729-201-52	TRANSISTOR 2SA1015
Q315	8-729-663-47	TRANSISTOR 2SC1364
Q316	8-729-201-52	TRANSISTOR 2SA1015

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q317	8-729-663-47	TRANSISTOR 2SC1364
Q318	8-729-201-52	TRANSISTOR 2SA1015
Q319	8-729-663-47	TRANSISTOR 2SC1364
Q320	8-729-201-52	TRANSISTOR 2SA1015
Q321	8-729-201-52	TRANSISTOR 2SA1015
Q322	8-729-201-52	TRANSISTOR 2SA1015
Q323	8-729-663-47	TRANSISTOR 2SC1364
Q324	8-729-201-52	TRANSISTOR 2SA1015
RY001A	1-515-421-00	(US,Canadian,AEP,E)...RELAY
RY001A	1-515-479-00	(UK).....RELAY
S001A	1-553-318-00	(AEP,UK,E).....SWITCH, PUSH
S001A	1-553-319-00	(US,Canadian)...SWITCH, PUSH
S301	1-552-539-00	SWITCH, KEY BOARD
T001A	1-447-367-00	(US,Canadian)...TRANSFORMER, POWER
T001A	1-447-368-00	(AEP,UK).....TRANSFORMER, POWER
T001A	1-447-369-00	(E).....TRANSFORMER, POWER
X101	1-527-532-00	OSC, CERAMIC

GENERAL SECTION (RM-44C)

No.	Part No.	Description
101	2-290-601-00	TERMINAL A, BATTERY
102	2-290-602-00	TERMINAL B, BATTERY
103	2-290-606-00	COVER, BATTERY
104	2-290-608-00	PLATE, FROSTED
105	2-364-010-00	CASE, LOWER
106	2-364-018-00	CONTACT, RUBBER
107	A-4322-446-A	PANEL ASSY, TOP
108	A-4372-008-A	COMMANDER ASSY

ELECTRICAL PARTS

Ref.No.	Part No.	Description
551	1-608-045-00	PC BOARD, COMMANDER
D901	8-719-815-55	DIODE 1S1555
D902	8-719-815-55	DIODE 1S1555
D903	8-719-193-03	DIODE SE303AX
IC901	8-759-200-00	IC TC9132P
IC902	8-759-240-11	IC TC4011BP
Q901	8-729-993-72	TRANSISTOR 2SA937
Q902	8-729-993-72	TRANSISTOR 2SA937
Q903	8-760-413-10	TRANSISTOR 2SC1475
R907	1-244-809-00	RES, CARBON 2.2 5% 1/2W
X901	1-527-476-41	OSC, CERAMIC

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

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

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

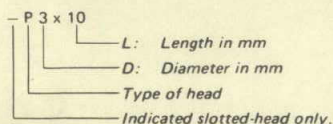
CAP. (μF)	RATING → : Use the high voltage rated one.				
	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
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			

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		

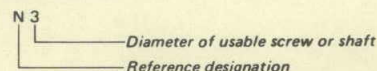
HARDWARE NOMENCLATURE

Screw:



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

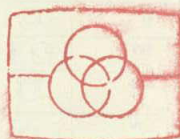
Nut, Washer, Retaining ring:



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

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

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