

SERVICE MANUAL SUPPLEMENT

File this supplement with the Service Manual.

AEP Model
UK Model
E Model

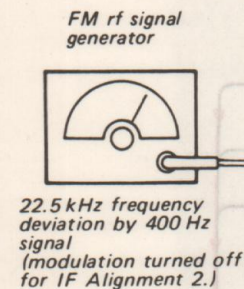
Subject: • Circuit change.
• Blue type is added.

No. 1
February, 1985

- Applicable Serial No.:
AEP Model: 20,451 and later
UK Model:
E Model:
- Front-end and IF circuit have been changed from discrete type to IC type.
Because of this, schematic and mounting diagrams have been changed.

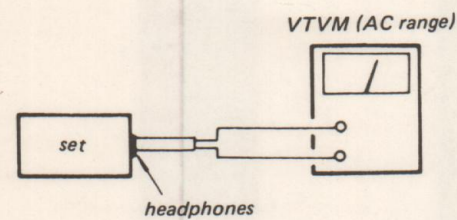
SECTION 3 ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS

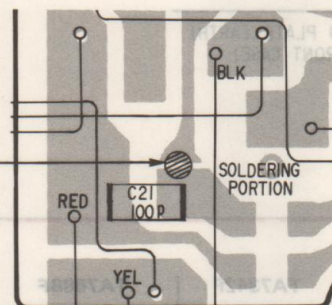


FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5MHz	L2
109.5MHz	CT-2

86.5MHz	L1
109.5MHz	CT-1
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

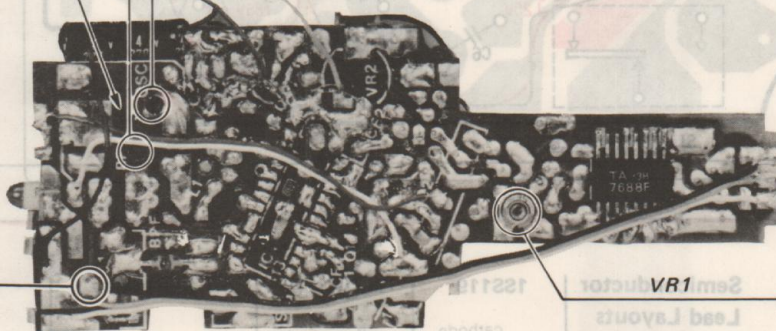
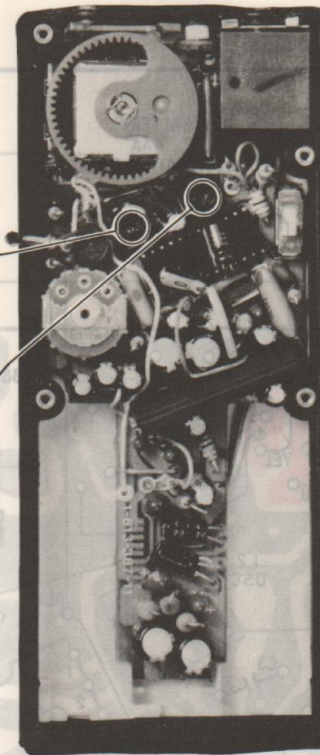


Unsolder.



FM STEREO RECEIVER
SONY

TR



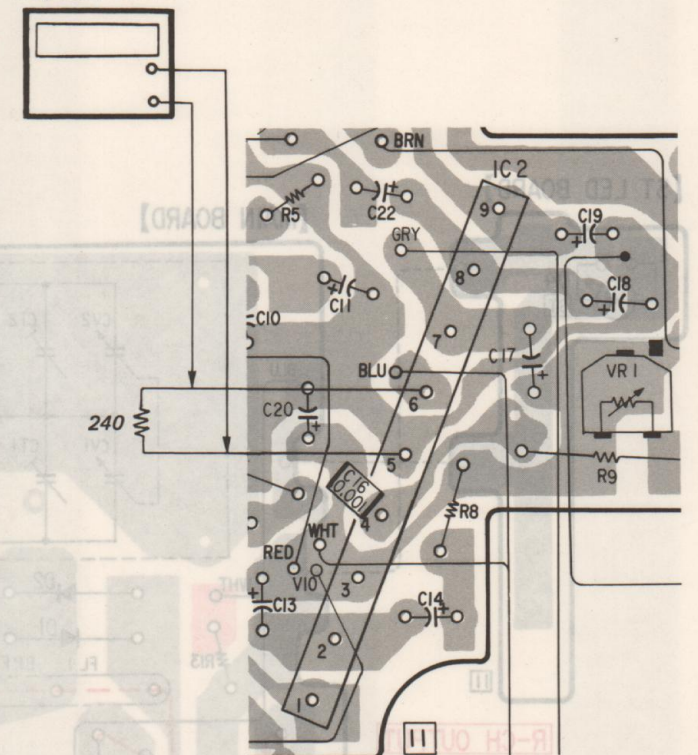
76kHz Adjustment

- Adjust VR1 for 76kHz ± 0.5 kHz reading on the frequency counter.

A) Regular Method

Procedure:

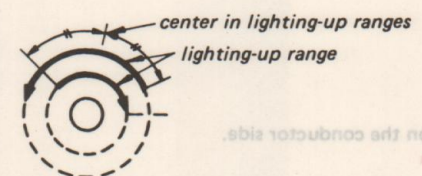
frequency counter



B) Simple Method

Procedure:

- Tune the set to the FM stereo broadcasting signal.
- Turn VR1 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO indicator.
- Secure VR1 at the center of the lighting-up range of both turns as shown below.



SECTION 4
DIAGRAMS

Serial No. 20,451 and later

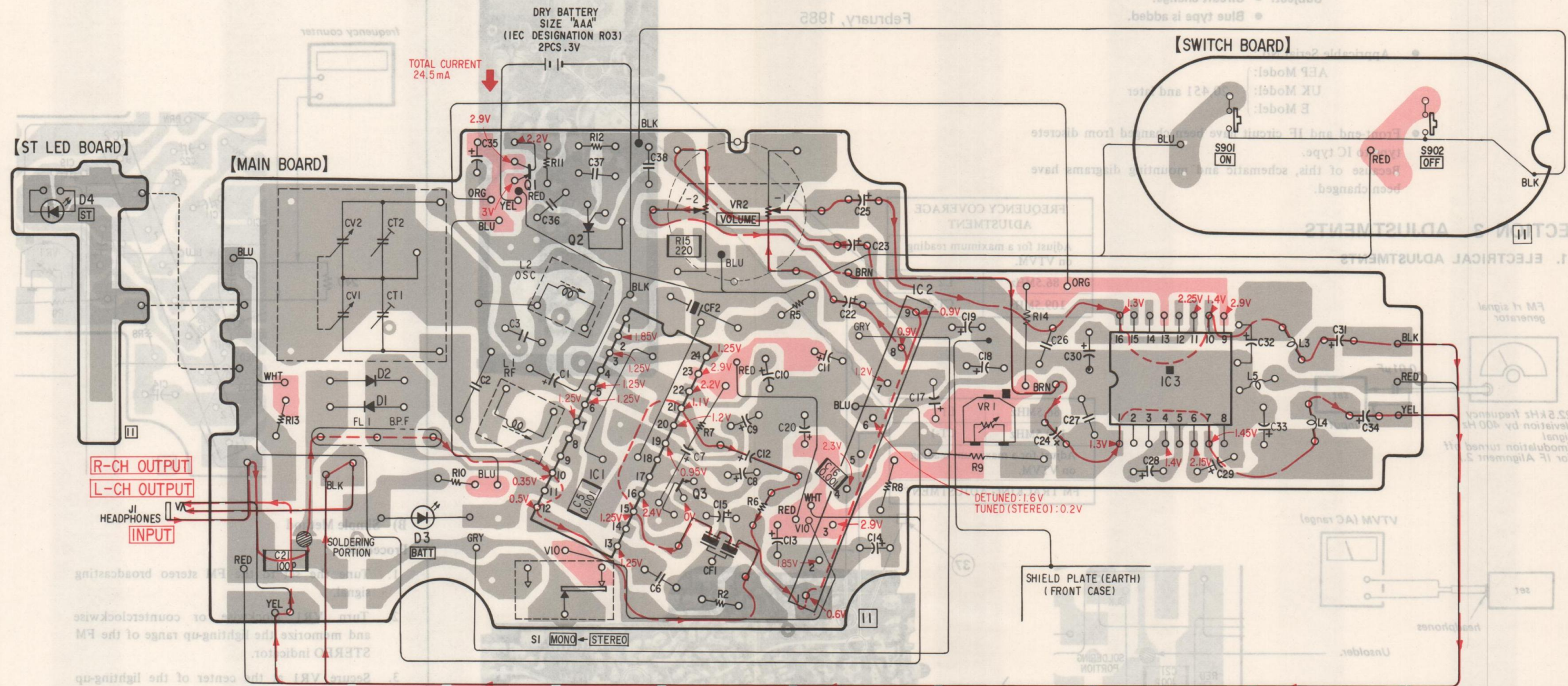
SRF-6 SRF-6

Serial No. 20,451 and later

4-1. MOUNTING DIAGRAM

— Conductor Side —

Q IC	1	2	3	Q IC
D	4	1	3	D

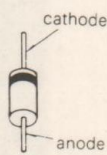


Note:

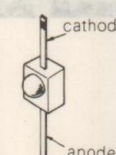
- : part mounted on the conductor side.
- : signal path
- : L-CH signal path
- : R-CH signal path
- : B + pattern

Semiconductor
Lead Layouts

1SS119



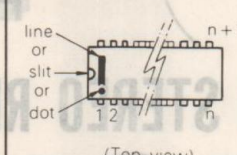
TLUR122



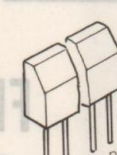
SLP114B



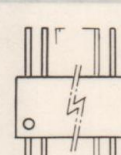
CX20111



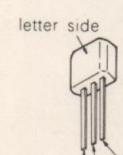
TA7342P



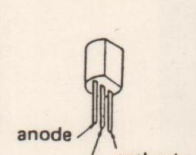
TA7688F



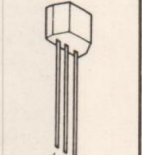
2SA1175



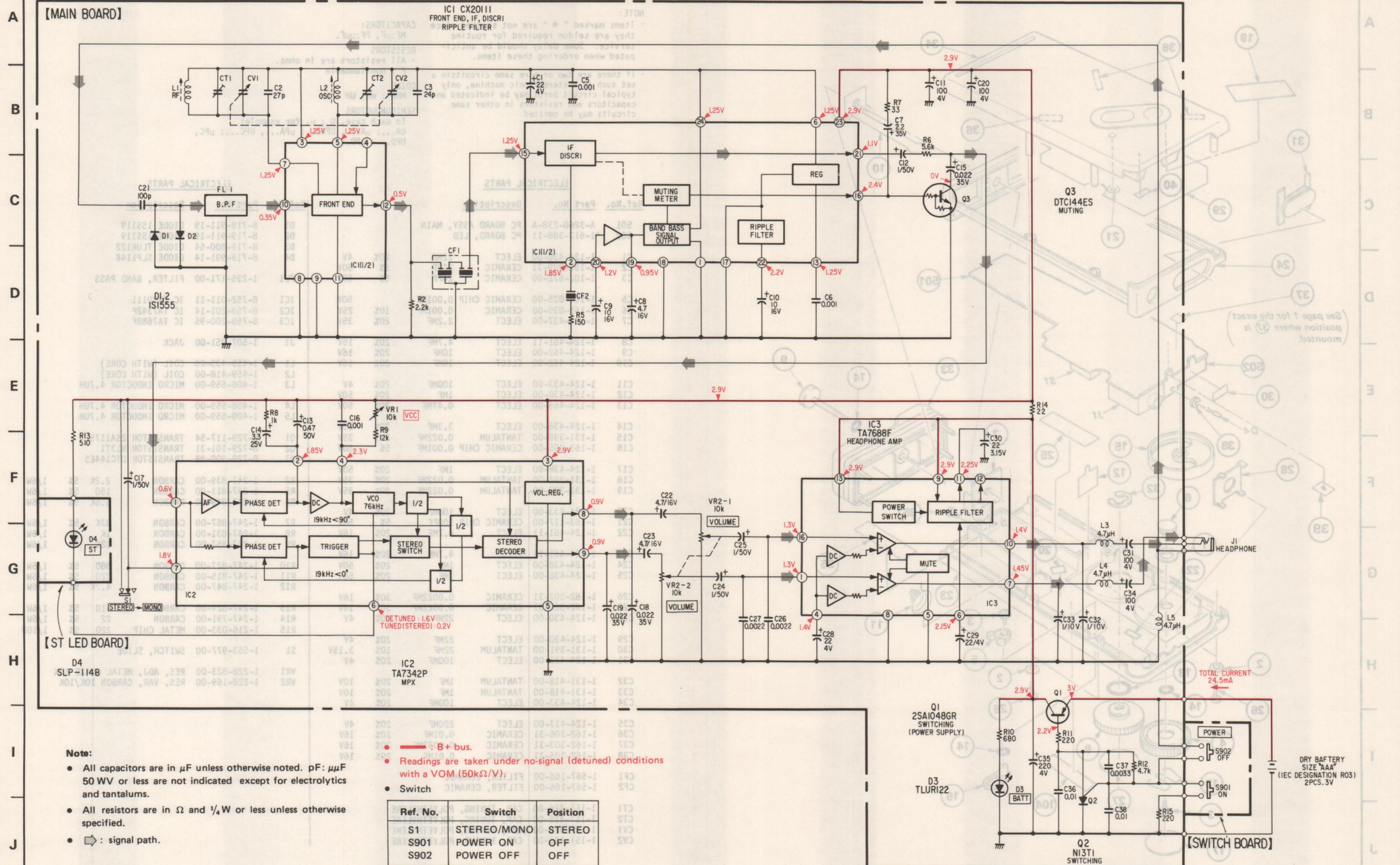
N13T1



DTC144ES



4-2. SCHEMATIC DIAGRAM



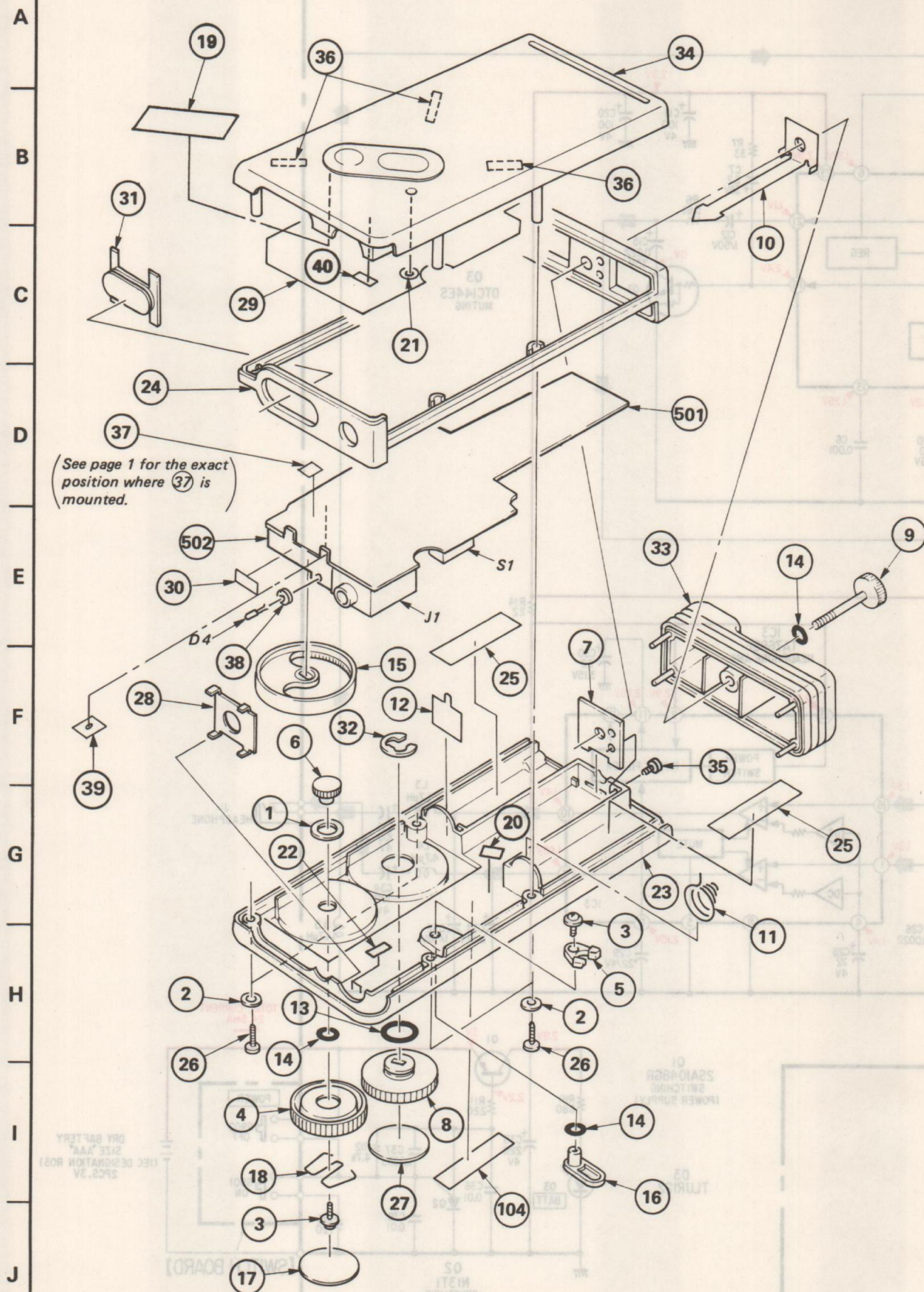
SECTION 5
EXPLODED VIEW AND PARTS LIST

Serial No. 20,451 and later

SRF-6

SRF-6

Serial No. 20,451 and later



(See page 1 for the exact position where 37 is mounted.)

NOTE:

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

All resistors are in ohms.

F: nonflammable

COILS

MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:UA: μ A, UPA: μ PA, UPC: μ PC,UPD: μ PD.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	A-3260-238-A	PC BOARD ASSY, MAIN
502	*1-613-388-11	PC BOARD, LED
C1	1-124-430-00	ELECT 22MF 20% 4V
C2	1-162-209-31	CERAMIC 27PF 5% 50V
C3	1-102-672-00	CERAMIC 24PF 5% 50V
C5	1-163-025-00	CERAMIC CHIP 0.001MF 10% 50V
C6	1-161-039-00	CERAMIC 0.001MF 10% 25V
C7	1-124-437-00	ELECT 2.2MF 20% 35V
C8	1-124-461-11	ELECT 4.7MF 20% 16V
C9	1-124-462-00	ELECT 10MF 20% 16V
C10	1-124-462-00	ELECT 10MF 20% 16V
C11	1-124-433-00	ELECT 100MF 20% 4V
C12	1-124-438-00	ELECT 1MF 20% 50V
C13	1-124-465-00	ELECT 0.47MF 20% 50V
C14	1-124-436-00	ELECT 3.3MF 20% 25V
C15	1-131-398-00	TANTALUM 0.022MF 20% 35V
C16	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V
C17	1-124-438-00	ELECT 1MF 20% 50V
C18	1-131-398-00	TANTALUM 0.022MF 20% 35V
C19	1-131-398-00	TANTALUM 0.022MF 20% 35V
C20	1-124-433-00	ELECT 100MF 20% 4V
C21	1-163-117-00	CERAMIC CHIP 100PF 5% 50V
C22	1-124-461-11	ELECT 4.7MF 20% 16V
C23	1-124-461-11	ELECT 4.7MF 20% 16V
C24	1-124-438-00	ELECT 1MF 20% 50V
C25	1-124-438-00	ELECT 1MF 20% 50V
C26	1-162-302-31	CERAMIC 0.0022MF 30% 16V
C27	1-162-302-31	CERAMIC 0.0022MF 30% 16V
C28	1-124-430-00	ELECT 22MF 20% 4V
C29	1-124-430-00	ELECT 22MF 20% 4V
C30	1-131-391-00	TANTALUM 22MF 10% 3.15V
C31	1-124-433-00	ELECT 100MF 20% 4V
C32	1-131-418-00	TANTALUM 1MF 20% 10V
C33	1-131-418-00	TANTALUM 1MF 20% 10V
C34	1-124-433-00	ELECT 100MF 20% 4V
C35	1-124-413-00	ELECT 220MF 20% 4V
C36	1-162-306-31	CERAMIC 0.01MF 20% 16V
C37	1-162-303-31	CERAMIC 0.0033MF 20% 16V
C38	1-162-306-31	CERAMIC 0.01MF 20% 16V
CF1	1-567-166-00	FILTER, CERAMIC
CF2	1-567-166-00	FILTER, CERAMIC
CT1	1-151-426-00	CAP, TUNING, POLYETHYLENE
CT2	1-151-426-00	CAP, TUNING, POLYETHYLENE
CV1	1-151-426-00	CAP, TUNING, POLYETHYLENE
CV2	1-151-426-00	CAP, TUNING, POLYETHYLENE

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D3	8-719-800-54	DIODE TLUR122
D4	8-719-991-14	DIODE SLP114B
FL1	1-235-171-00	FILTER, BAND PASS
IC1	8-752-011-11	IC CX20111
IC2	8-759-201-14	IC TA7342P
IC3	8-759-200-95	IC TA7688F
J1	1-507-851-00	JACK
L1	1-459-435-00	COIL (WITH CORE)
L2	1-459-418-00	COIL (WITH CORE)
L3	1-408-559-00	MICRO INDUCTOR 4.7UH
L4	1-408-559-00	MICRO INDUCTOR 4.7UH
L5	1-408-559-00	MICRO INDUCTOR 4.7UH
Q1	8-729-117-54	TRANSISTOR 2SA1175
Q2	8-729-101-31	TRANSISTOR N13T1
Q3	8-729-900-89	TRANSISTOR DTC144ES
R2	1-247-839-00	CARBON 2.2K 5% 1/6W
R5	1-247-811-00	CARBON 150 5% 1/6W
R6	1-247-849-00	CARBON 5.6K 5% 1/6W
R7	1-247-867-00	CARBON 33K 5% 1/6W
R8	1-247-831-00	CARBON 1K 5% 1/6W
R9	1-247-857-00	CARBON 12K 5% 1/6W
R10	1-247-827-00	CARBON 680 5% 1/6W
R11	1-247-815-00	CARBON 220 5% 1/6W
R12	1-247-847-00	CARBON 4.7K 5% 1/6W
R13	1-247-824-00	CARBON 510 5% 1/6W
R14	1-247-791-00	CARBON 22 5% 1/6W
R15	1-216-033-00	METAL CHIP 220 5% 1/10W
S1	1-553-977-00	SWITCH, SLIDE
VR1	1-228-823-00	RES, ADJ, METAL GLAZE 10K
VR2	1-228-169-00	RES, VAR, CARBON 10K/10K

GENERAL SECTION

No.	Part No.	Description
1	3-701-439-01	WASHER
2	3-302-553-00	RESERVOIR, OIL
3	3-703-502-31	SCREW
4	3-892-101-00	KNOB, TUNING
5	3-892-104-00	HOLDER, M/S
6	3-892-105-00	GEAR, TUNING
7	3-892-106-00	REINFORCEMENT
8	3-892-107-01	KNOB, CONTROL
9	3-892-108-00	SCREW, BATTERY
10	3-892-109-00	RIBBON, LID, BATTERY CASE
11	3-892-111-00	SPRING
12	3-892-112-00	TERMINAL BOARD
13	3-892-113-00	RING (DIA. 5), 0
14	3-892-114-00	RING (DIA. 3), 0
15	3-892-115-00	DRUM, DIAL
16	3-892-116-00	KNOB, M/S
17	3-892-119-01	(YEL)...PLATE (TUN), ORNAMENTAL
17	3-892-119-21	(BLU)...PLATE (TUN), ORNAMENTAL
18	3-892-120-00	SPRING
19	*3-592-354-00	PAPER, VIBRATION PROOF (E)
20	3-831-441-XX	CUSHION
21	3-892-139-00	CUSHION, BLIND
22	*3-892-147-00	SHEET (C)
23	3-892-133-51	(YEL)...COVER, BACK
23	3-892-133-71	(BLU)...COVER, BACK
24	3-892-134-00	PACKING
25	3-892-141-00	LABEL, POLARITY
26	3-892-142-00	SCREW, (+P) PRECISION SMALL
27	3-892-143-01	(YEL)...PANEL (CONTROL), ORNAMENTAL
27	3-892-143-21	(BLU)...PANEL (CONTROL), ORNAMENTAL
28	*3-892-118-00	PLATE, CLIP
29	3-892-144-00	SHEET, INSULATING
30	3-892-129-00	LABEL, FREQUENCY
31	3-892-126-00	WINDOW, DIAL
32	7-624-109-04	STOP RING 5.0, TYPE -E
33	X-3892-104-1	CASE ASSY, BATTERY
34	X-3892-103-1	(YEL)...CASE ASSY, FRONT
34	X-3892-103-3	(BLU)...CASE ASSY, FRONT
35	7-627-552-48	SCREW, PRECISION +P 1.7X4
36	*3-892-153-00	SHEET (F)
37	9-911-863-XX	SHEET (B)
38	7-623-950-51	WASHER 1.4, FIBER
39	*3-892-128-00	PAPER, SHIELD, VC
40	3-315-754-01	SPACER (D)

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-703-916-01	(BLU)...LABEL, COLOR
101	3-703-924-01	(YEL)...LABEL, COLOR
102		
103	3-995-970-11	MANUAL, INSTRUCTION
104		
105	3-892-135-00	CUSHION
106	3-892-136-00	INDIVIDUAL CARTON
107	8-951-162-92	(YEL)...MDR-E255Y SET
107	8-951-162-94	(BLU)...MDR-E255(V) SET
108	X-3892-102-0	HOLDER ASSY, RADIO
109	3-892-156-00	TAPE, PROTECTION
110	3-892-154-00	STOPPER (UPPER)
111	3-892-157-00	SPACER
112	3-993-320-01	INSTRUCTION, PICK
113	4-310-379-00	(AEP)...LABEL, NEMKO

AEP Model
UK Model
E Model

SONY®
SERVICE MANUAL

SUPPLEMENT-2

File this supplement with the Service Manual.

Subject: ● Black type is added in AEP model.
● Supplied headphone change

● Add the following parts in the Service Manual.

No.	Part No.	Description
17	3-892-119-31	(BLK). . .PLATE (TUN), ORNAMENTAL
23	3-892-167-91	(BLK). . .COVER, BACK
27	3-892-143-31	(BLK). . .PANEL (CONTROL), ORNAMENTAL
34	X-3892-103-4	(BLK). . . CASE ASSY, FRONT

ACCESSORY & PACKING MATERIAL

107	8-952-216-95	(BLK). . . MDR-E245/Z SET
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● Supplied headphone has been changed from MDR-E255 to MDR-E245.

Former			New	
No.	Part No.	Description	Part No.	Description
107	8-951-162-92	(YEL). . . MDR-E255Y SET	8-952-216-94	(YEL). . . MDR-E245/Y SET
107	8-951-162-94	(BLU). . . MDR-E255(V) SET	8-952-216-92	(BLU). . . MDR-E245/L SET

No.	Part No.	Description
101	3-703-914-01	(BLU)...LABEL, COLOR
101	3-703-954-01	(YEL)...LABEL, COLOR
105		
103	3-992-970-11	MANUAL, INSTRUCTION
104		
106	3-895-132-00	CUSHION
106	3-895-136-00	INDIVIDUAL CARTON
107	8-951-162-92	(YEL)...MDR-E255Y SET
107	8-951-162-94	(BLU)...MDR-E255(V) SET
108	X-3892-103-0	HOLDER ASSY, RADIO
109	3-895-126-00	TAPE, PROTECTION
110	3-895-124-00	STOPPER (UPPER)
111	3-895-127-00	SPACER
112	3-993-350-01	INSTRUCTION, PICK
113	4-310-370-00	(AEP)...LABEL, REMKO

No.	Part No.	Description
1	3-701-439-01	WASHER
2	3-305-223-00	RESERVOIR, OIL
3	3-703-205-31	SCREEN
4	3-895-101-00	KNOB, TUNING
5	3-895-104-00	HOLDER, M/2
6	3-895-102-00	GEAR, TUNING
7	3-895-106-00	REINFORCEMENT
8	3-895-107-01	KNOB, CONTROL
9	3-895-108-00	SCREEN, BATTERY
10	3-895-109-00	RIBBON, LID, BATTERY CASE
11	3-895-111-00	SPRING
12	3-895-112-00	TERMINAL BOARD
13	3-895-113-00	RING (DIA. 5) 0
14	3-895-114-00	RING (DIA. 3) 0
15	3-895-115-00	DRUM, DIAL
16	3-895-116-00	KNOB, M/2
17	3-895-119-01	(YEL)...PLATE (TUN), ORNAMENTAL
17	3-895-119-31	(BLU)...PLATE (TUN), ORNAMENTAL
18	3-895-120-00	SPRING
19	*3-895-324-00	PAPER, VIBRATION PROOF (E)
20	3-831-441-XX	CUSHION
21	3-895-138-00	CUSHION, BLIND
22	*3-895-147-00	SHEET (C)
23	3-895-133-21	(YEL)...COVER, BACK
23	3-895-133-71	(BLU)...COVER, BACK
24	3-895-134-00	PACKING
25	3-895-141-00	LABEL, POLARITY
26	3-895-142-00	SCREEN (+P) PRECISION SMALL
27	3-895-143-01	(YEL)...PANEL (CONTROL), ORNAMENTAL
27	3-895-143-31	(BLU)...PANEL (CONTROL), ORNAMENTAL
28	*3-895-118-00	PLATE, CLIP
29	3-895-144-00	SHEET, INSULATING
30	3-895-150-00	LABEL, FREQUENCY
31	3-895-158-00	WINDOW, DIAL
32	3-895-109-00	STOP RING 2.0 TYPE -E
33	X-3895-104-1	CASE ASSY, BATTERY
34	X-3895-103-1	(YEL)...CASE ASSY, FRONT
34	X-3895-103-3	(BLU)...CASE ASSY, FRONT
35	3-895-183-00	SHEET (F)
36	3-811-883-XX	SHEET (B)
37	3-811-883-XX	SHEET (B)
38	3-895-158-00	PAPER, SHIELD, VC
39	3-812-724-01	SPACER (D)