

Service Manual

CD Stereo System



Model No. **SA-AKX74PH**
SA-AKX74PN
SA-AKX94PH
SA-AKX74PR
SA-AKX94PR

Product Color: (K)...Black Type

Subject : Updates on Block Diagram, Schematic Diagram, Printed Circuit Board, Exploded View & Parts List.

Please file and use this supplement manual together with the service manual for
Model No. SA-AKX74PH/PN-K Order No. PSG1203050CE
Model No. SA-AKX94PH-K Order No. PSG1203051CE
Model No. SA-AKX74/94PR-K Order No. PSG1204034AE

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Notes

Background:

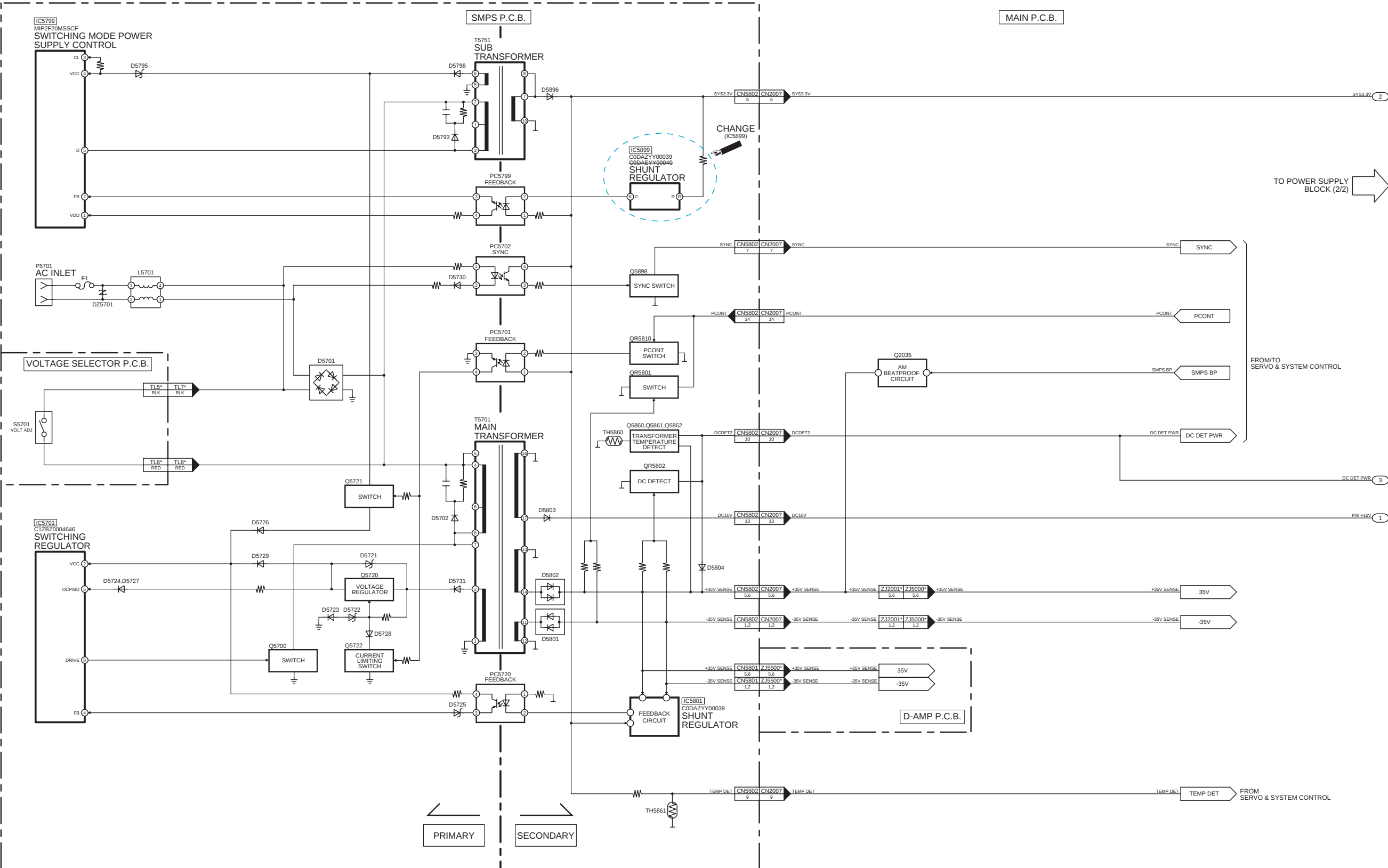
- For improvement of quality and performance.

This supplement includes revised contents to the original service manual for below sections:-

1. Block Diagram
2. Schematic Diagram.
3. Printed Circuit Board.
4. Exploded View.
5. Electrical & Mechanical Replacement Parts List.

2.2. Power Supply (SA-AKX94PH-K)

With reference to original service manual (section 14.4) on pages 81.



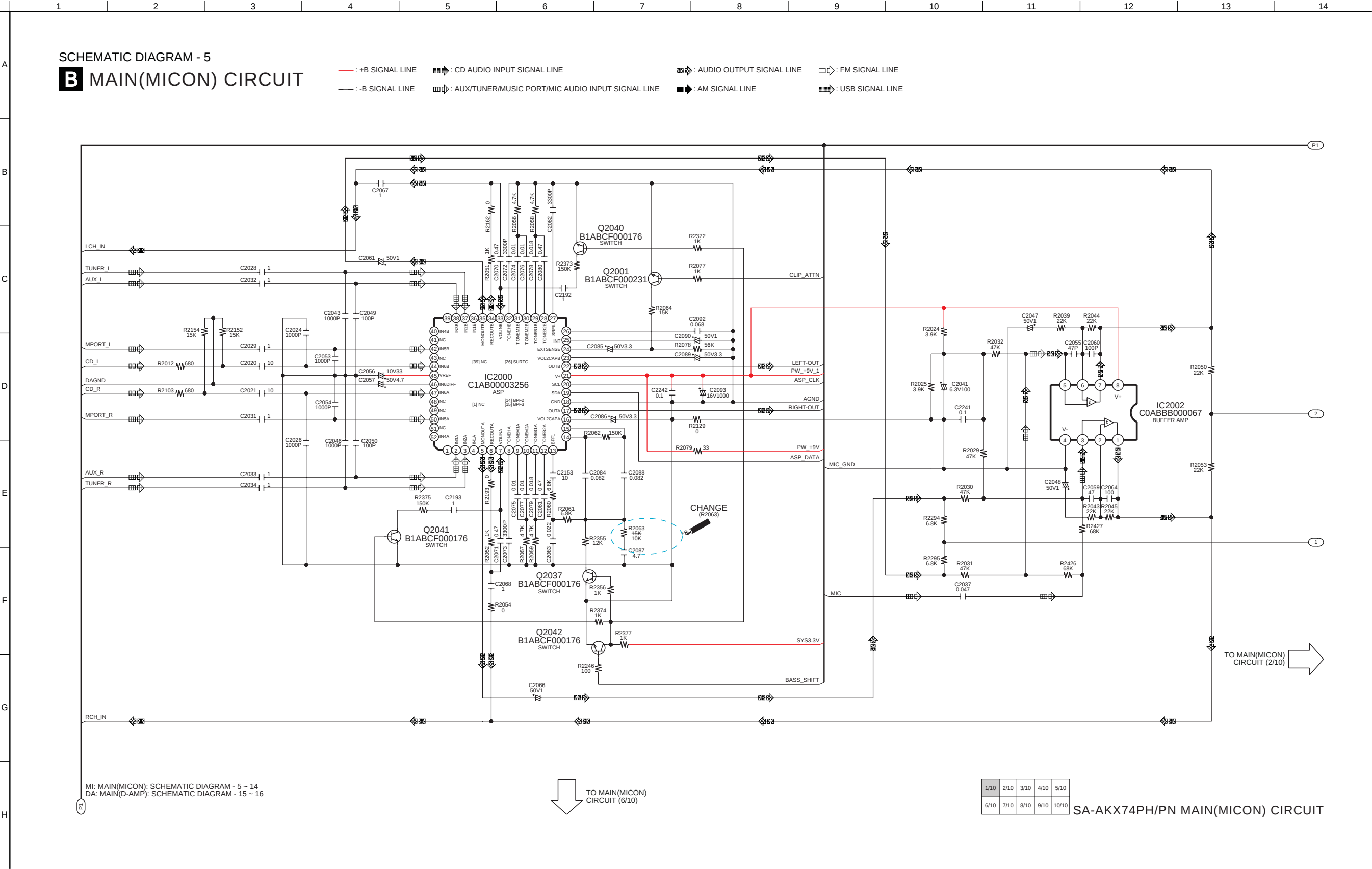
NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX94PH POWER SUPPLY (1/2) BLOCK DIAGRAM

3 Schematic Diagram (Updates)

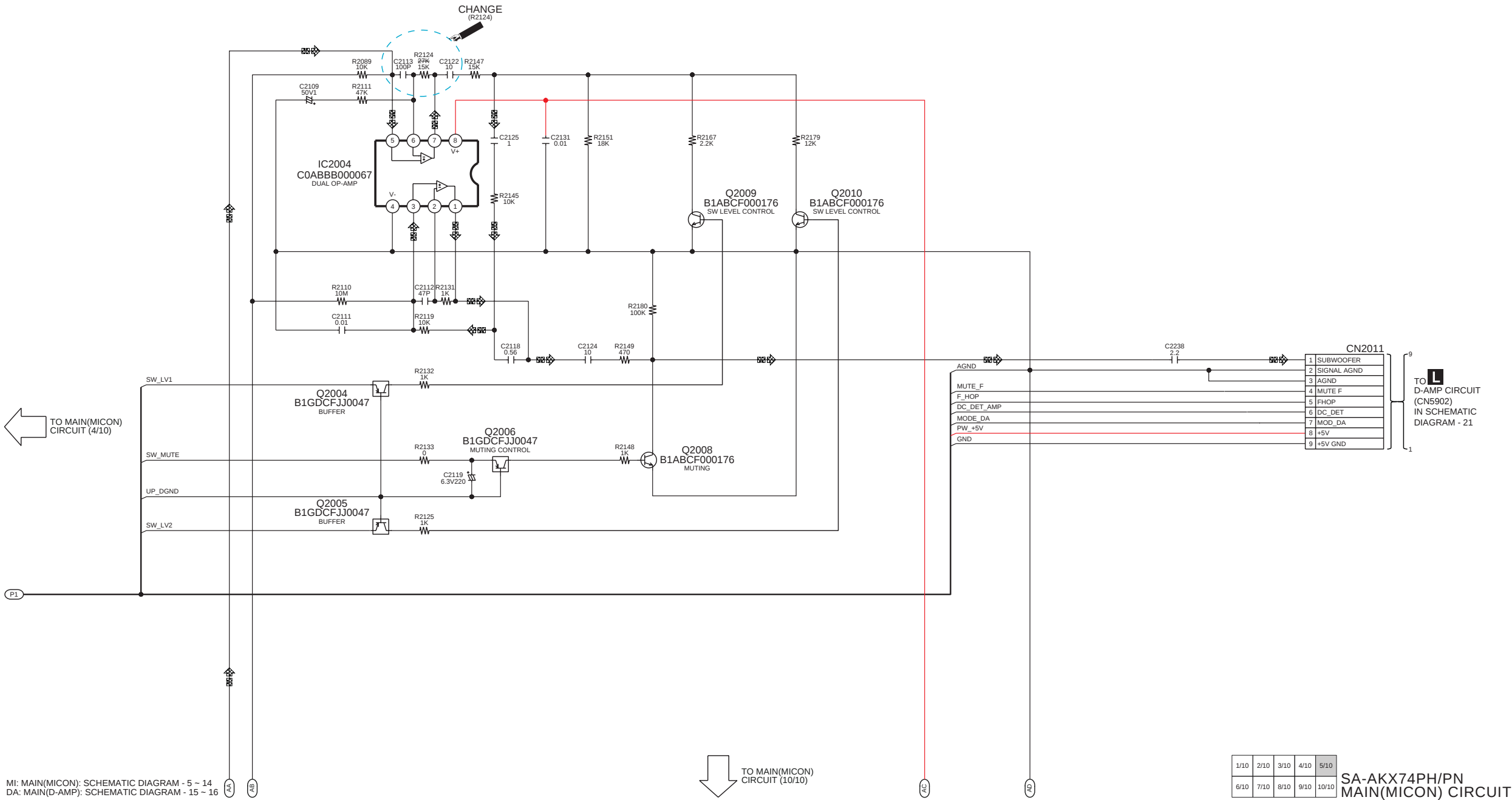
3.1. Main(MICON) Circuit (SA-AKX74PH/PN-K)

With reference to original service manual (section 16.3) on pages 87, 91 & 96.

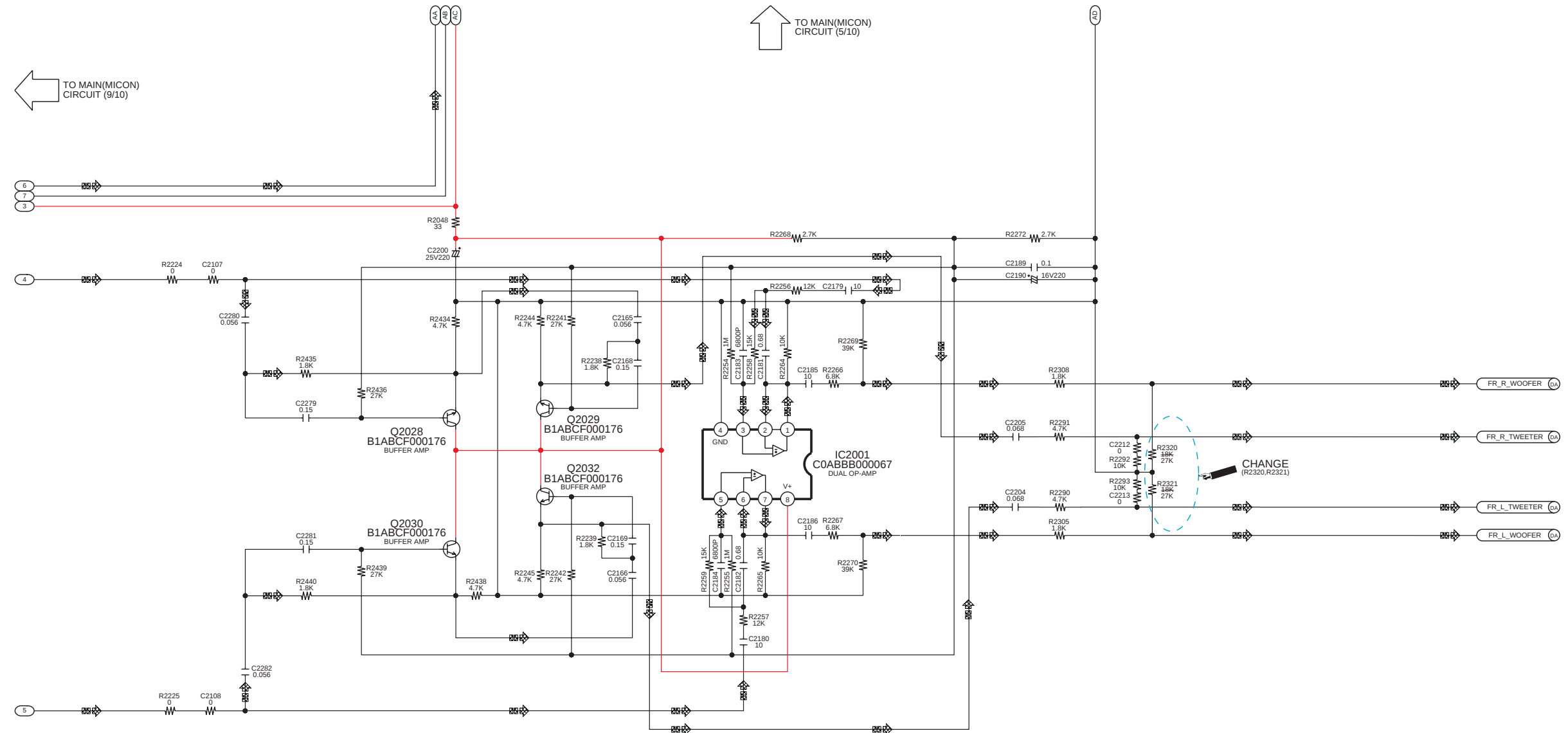


SCHEMATIC DIAGRAM - 9
B MAIN(MICON) CIRCUIT

— : +B SIGNAL LINE  : CD AUDIO INPUT SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE  : FM SIGNAL LINE
— : -B SIGNAL LINE  : AUX/TUNER/MUSIC PORT/MIC AUDIO INPUT SIGNAL LINE  : AM SIGNAL LINE  : USB SIGNAL LINE



B MAIN(MICON) CIRCUIT

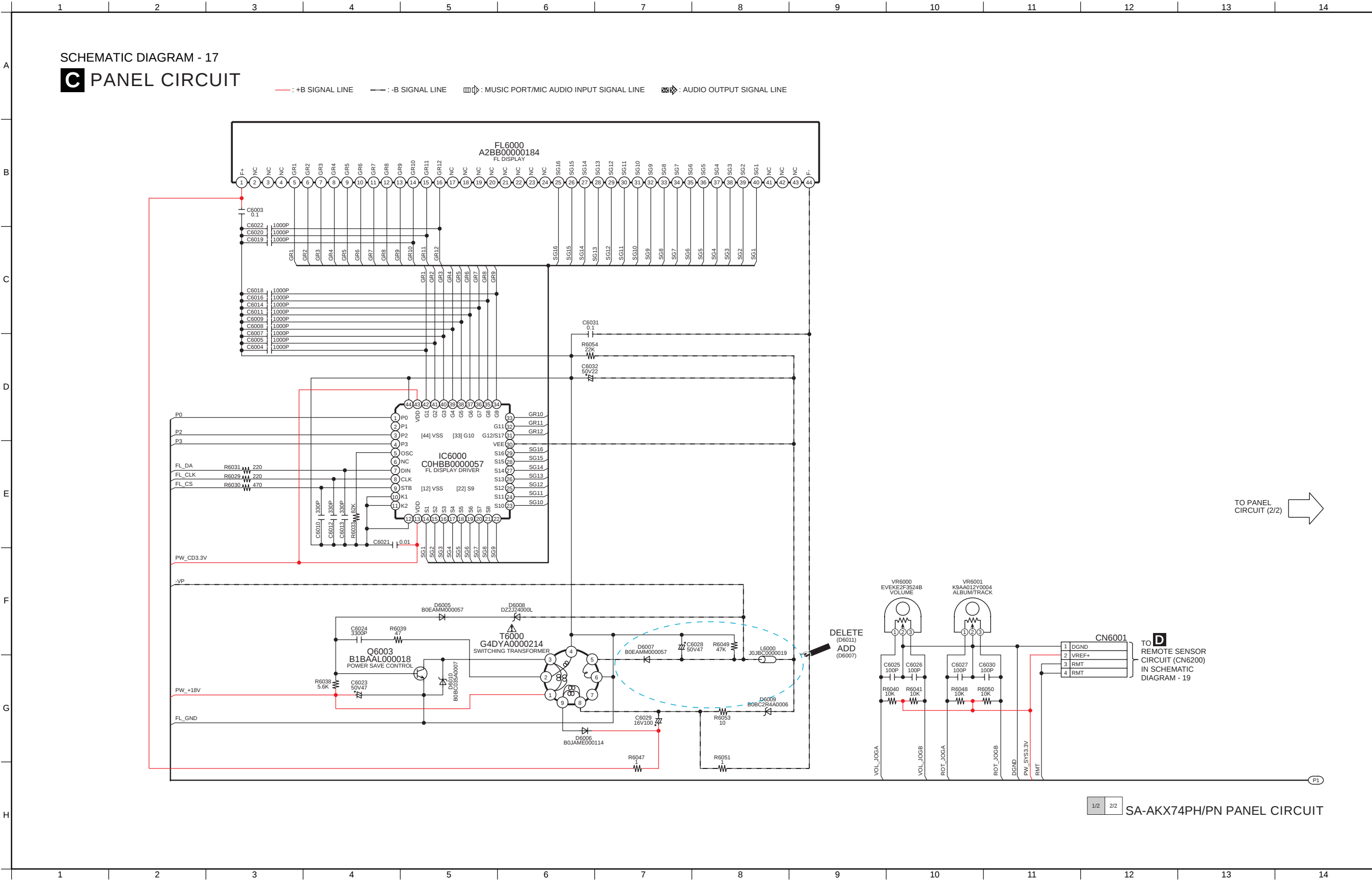


1/10	2/10	3/10	4/10	5/10
6/10	7/10	8/10	9/10	10/10

SA-AKX74PH/PN MAIN(MICON) CIRCUIT

3.2. Panel Circuit (SA-AKX74PH/PN-K)

With reference to original service manual (section 16.5) on pages 99.

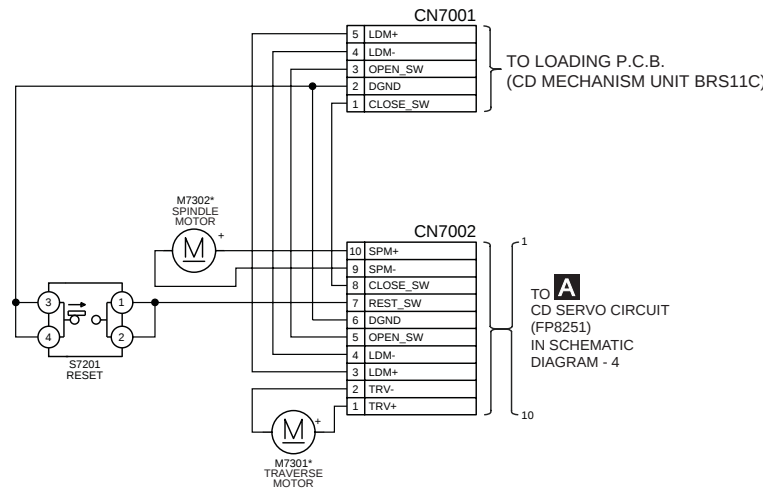


3.3. CD Interface, Mic and Voltage Selector Circuit (SA-AKX74PH/PN-K)

With reference to original service manual (section 16.7) on pages 102.

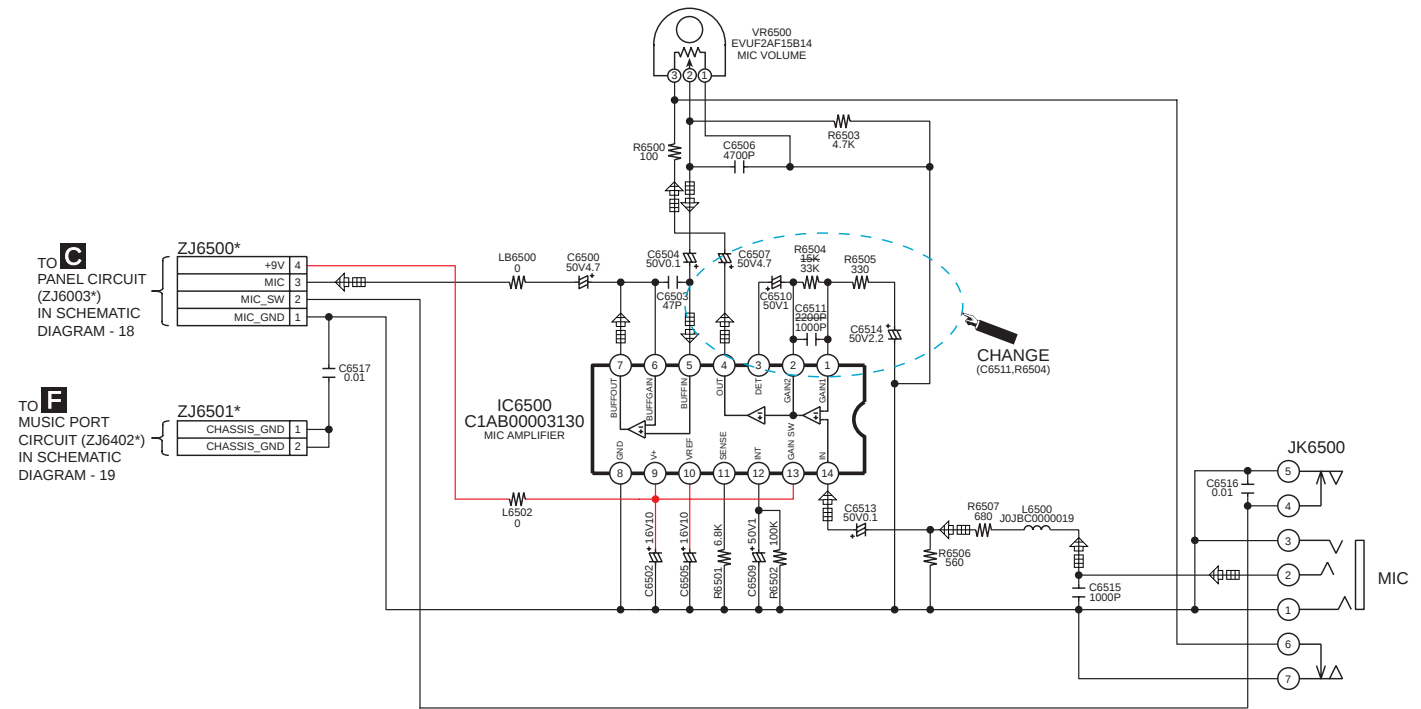
SCHEMATIC DIAGRAM - 20

H CD INTERFACE CIRCUIT

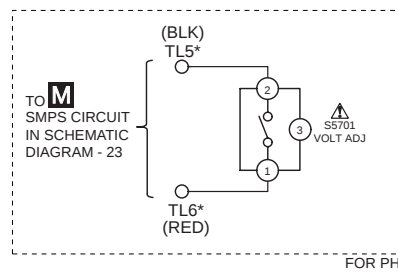


K MIC CIRCUIT

— : +B SIGNAL LINE : MIC AUDIO INPUT SIGNAL LINE



N VOLTAGE SELECTOR CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX74PH/PN CD INTERFACE / MIC / VOLTAGE SELECTOR CIRCUIT

With reference to original service manual (section 16.8) on pages 103.



With reference to original service manual (section 16.9) on pages 104 & 105.

M SMPS CIRCUIT

TO **L**
D-AMP CIRCUIT
(ZJ5901*)
IN SCHEMATIC
DIAGRAM - 21

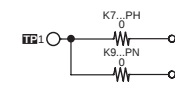
TO **B**
MAIN(MICON)
CIRCUIT (CN2007) ·
IN SCHEMATIC
DIAGRAM - 7



1/2	2/2	SA-AKX74PH/PN SMPS CIRCUIT
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M SMPS CIRCUIT

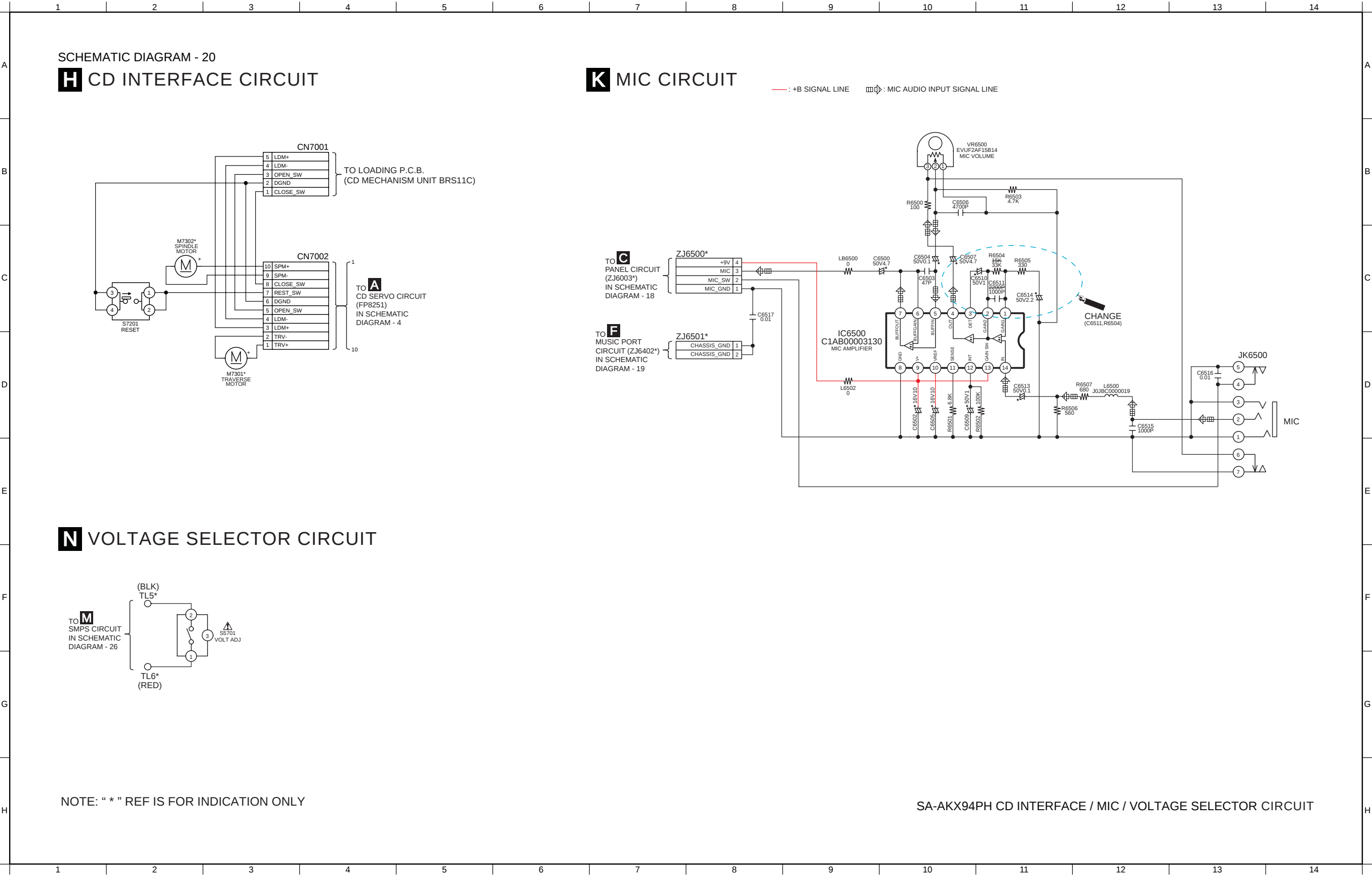
TO SMPS
CIRCUIT (1/2)



SA-AKX74PH/PN SMPS CIRCUIT

3.6. CD Interface, Mic and Voltage Selector Circuit (SA-AKX94PH-K)

With reference to original service manual (section 16.7) on pages 106.



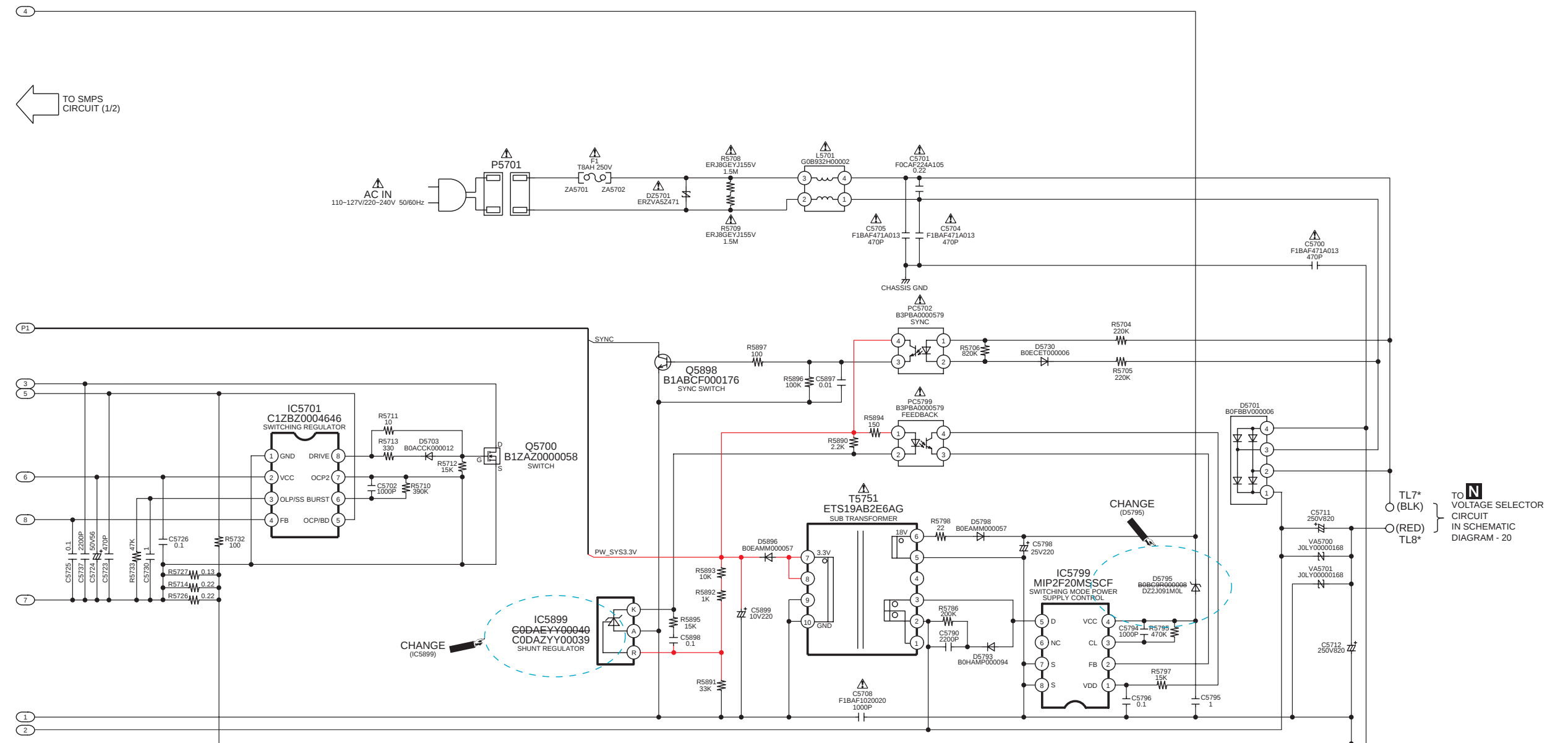
With reference to original service manual (section 16.9) on pages 111 & 112.



SCHEMATIC DIAGRAM - 26

M SMPS CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-AKX94PH SMPS CIRCUIT

4.1. Panel, Remote Sensor, USB and Music Port P.C.B. (SA-AKX74PH/PN-K)

A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top.

[illegible]

ALBUM/ TRACK	ARTIST	REMARKS
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102

A horizontal number line with tick marks at every integer from 1 to 13. The numbers 1 through 13 are labeled below the line.

Diagram illustrating the sensor assembly components and their connections:

- SENSOR**: The main sensing component, shown with a 3-pin connector (1, 2, 3).
- CN6200**: A connector component, shown with a 4-pin connector (1, 2, 3, 4).
- R6200**: A component, shown with a 3-pin connector (1, 2, 3).
- PbF 3543AB-2**: A component, shown with a 2-pin connector (1, 2).

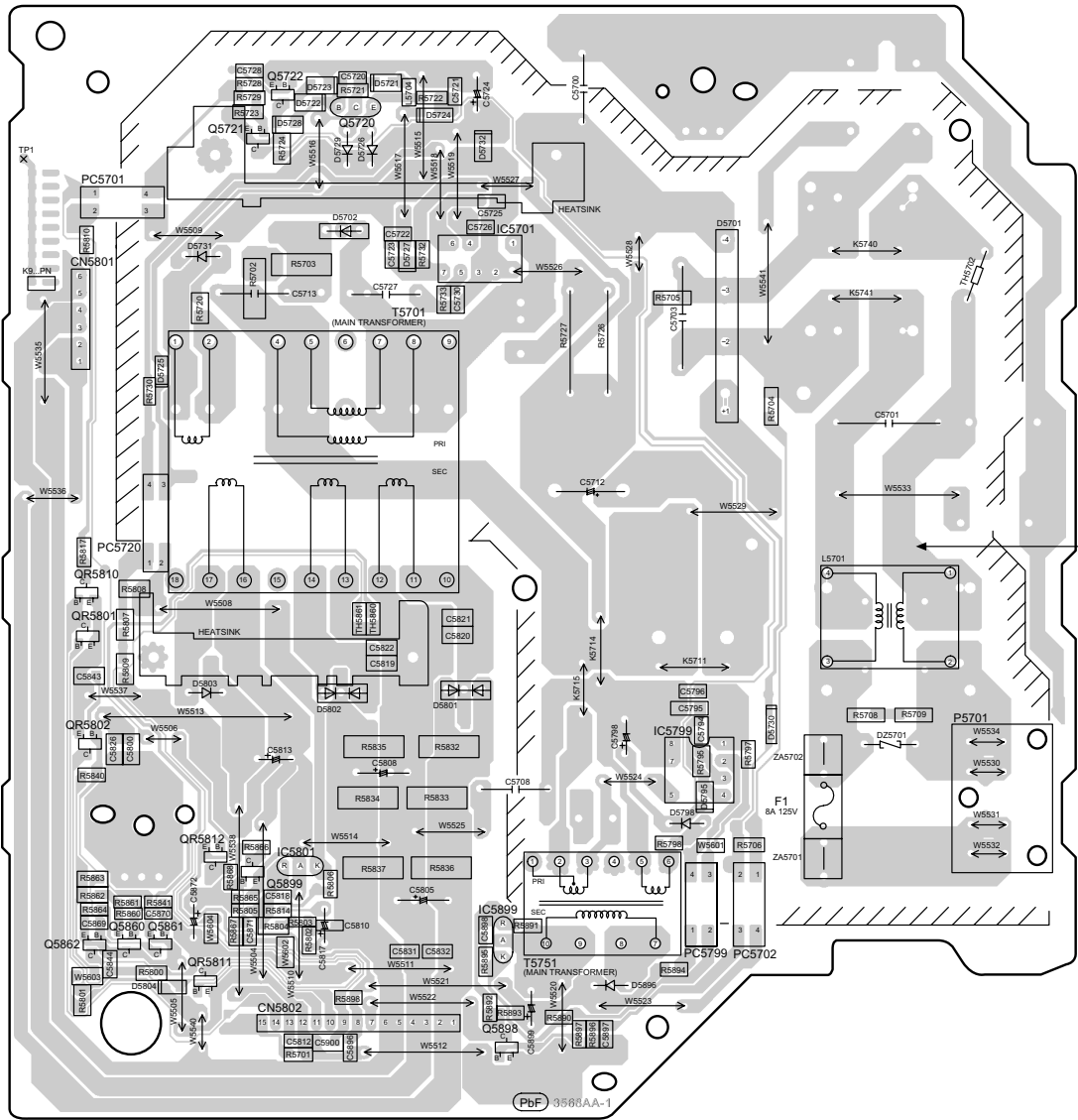
[illegible]

16

4.2. SMPS and D-Amp P.C.B. (SA-AKX74PH/PN-K)

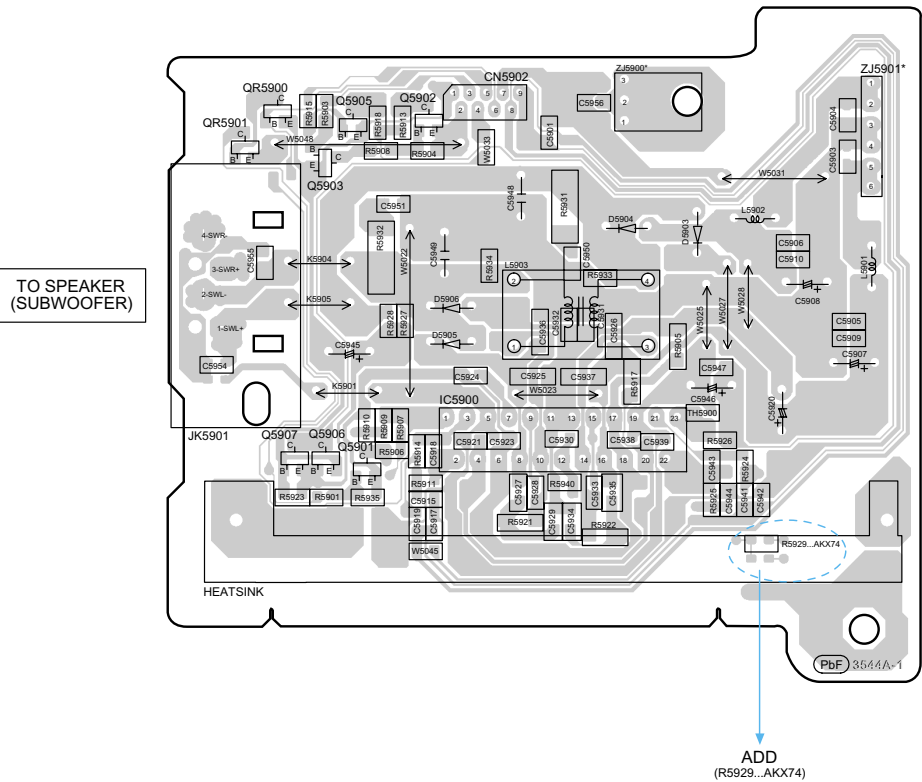
With reference to original service manual (section 17.7) on page 112.

M SMPS P.C.B. (REP4783JA...PN)



NOTE: " * " REF IS FOR INDICATION ONLY.

L D-AMP P.C.B. (REP4804A)

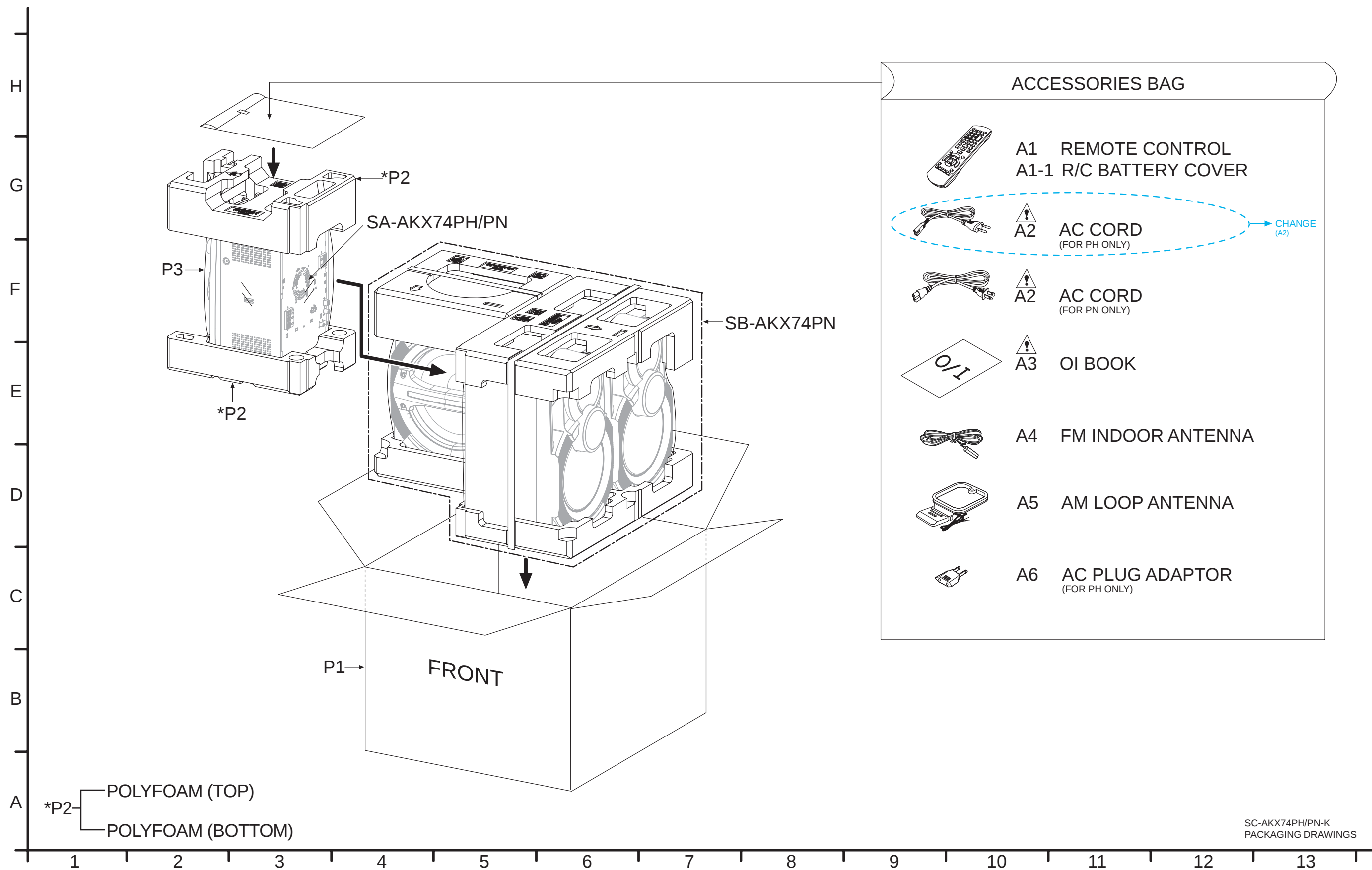


SA-AKX74PH/PN
SMPS / D-AMP P.C.B.

5 Exploded View (Updates)

5.1. Packaging (SA-AKX74PH/PN-K)

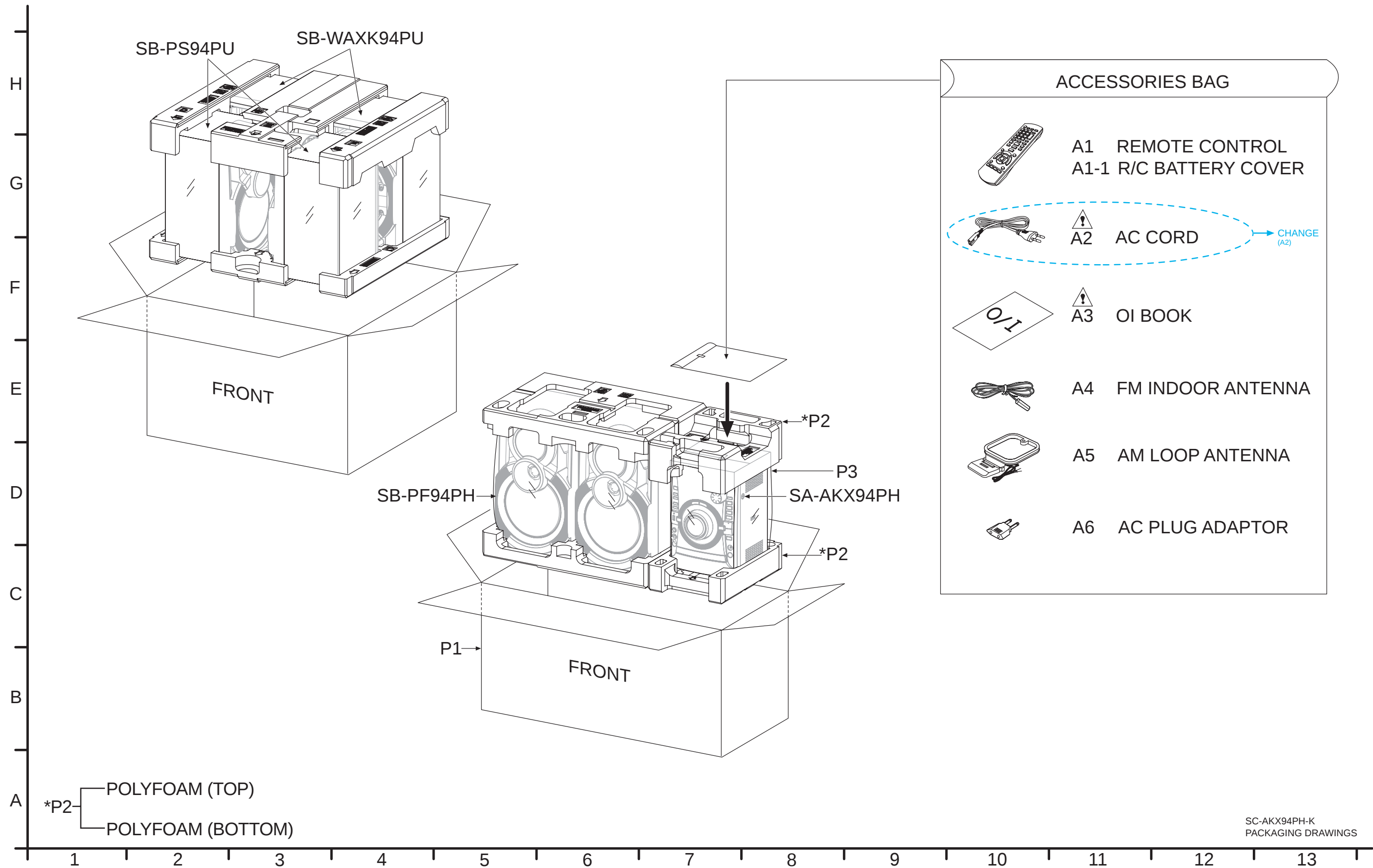
With reference to original service manual (section 19.1.2) on page 125.



SC-AKX74PH/PN-K
PACKAGING DRAWINGS

5.2. Packaging (SA-AKX94PH-K)

With reference to original service manual (section 19.1.2) on page 135.



SC-AKX94PH-K
PACKAGING DRAWINGS

6 Electrical & Mechanical Replacement Parts List (Updates)

Reason for Change		
*The circled item indicates the reason. If no marking, see the Notes in the bottom column.		
☐	1. Improve performance	
☐	2. Change of material or dimension	
☐	3. To meet approved specification	
☐	4. Standardization	
☐	5. Addition	
☐	6. Deletion	
☐	7. Correction	
☐	8. Other	

Interchangeability Code					
**The circled item indicates the interchangeability. If no marking, see the Notes in the bottom column.					
Parts			Set Production		
	A	Original New		Early Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
	B	Original New		Early Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
O	C	Original New		Early Late	New parts only may be used in early or late production sets. Stock new parts.
	D	Original New		Early Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
	E	Other			

Model No.	Ref No.	Original Part No.	New Part No.	Notes	New Part Name & Description	Remarks
SA-AKX74PH-K	10	RGW0428-S	RGW0428-S1	1/C	VOLUME KNOB	CHANGE
	37	RGU2763-S	RGU2763-S1	1/C	PUSH/PLAY BUTTON	CHANGE
	59	RGQ0672-R	RGQ0672-R1	1/C	FL FILTER SHEET	CHANGE
	A2	K2CQ2CA00007	K2CQ2CA00006	1/C	AC CORD	CHANGE
	A3	RQT9627-1M	RQT9627-2M	1/C	O/I BOOK (Sp)	CHANGE
	C5737	F1B3D821A084	F1A3A222A065	1/C	2200pF 1000V	CHANGE
	C6511	F1H1H222A013	F1H1H102A219	1/C	1000pF 50V	CHANGE
	CN2003	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN2009	K1MY30AA0124	K1MY30AA0267	1/C	30P CONNECTOR	CHANGE
	CN2011	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN5902	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN6000	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN6301	K1FY104A0007	K1FY104A0034	1/C	USB CONNECTOR	CHANGE
	D5721	B0BC010A0007	DZ2J110M0L	1/C	DIODE	CHANGE
	D5722	B0BC019A0007	DZ2J200M0L	1/C	DIODE	CHANGE
	D5723	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5724	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5725	B0BC6R100010	DZ2J062M0L	1/C	DIODE	CHANGE
	D5727	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5728	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5732	B0BC035A0007	DZ2J360M0L	1/C	DIODE	CHANGE
	D5795	B0BC9R000008	DZ2J091M0L	1/C	DIODE	CHANGE
	D5804	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D6007	--	B0EAMM000057	5/C	DIODE	ADD
	D6011	B0EAMM000057	--	6/C	--	DELETE
	IC5899	C0DAEYY00040	C0DAZYY00039	1/C	IC	CHANGE
	R2063	D0GB153JA008	D0GB103JA008	1/C	10K 1/10W	CHANGE
	R2124	D0GB273JA008	D0GB153JA008	1/C	15K 1/10W	CHANGE
	R2320	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R2321	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R5929	--	D0GBR00JA008	5/C	0 1/10W	ADD
	R6504	D0GB153JA008	D0GB333JA008	1/C	33K 1/10W	CHANGE

Model No.	Ref No.	Original Part No.	New Part No.	Notes	New Part Name & Description	Remarks
SA-AKX74PR-K	37	RGU2763-S	RGU2763-S1	1/C	PUSH/PLAY BUTTON	CHANGE
	59	RGQ0672-R	RGQ0672-R1	1/C	FL FILTER SHEET	CHANGE
	C6511	F1H1H222A013	F1H1H102A219	1/C	1000pF 50V	CHANGE
	CN2003	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN2009	K1MY30AA0124	K1MY30AA0267	1/C	30P CONNECTOR	CHANGE
	CN2011	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN5902	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN6000	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN6301	K1FY104A0007	K1FY104A0034	1/C	USB CONNECTOR	CHANGE
	D5722	B0BC019A0007	DZ2J200M0L	1/C	DIODE	CHANGE
	D5723	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5724	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5725	B0BC6R100010	DZ2J062M0L	1/C	DIODE	CHANGE
	D5727	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5728	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5732	B0BC035A0007	DZ2J360M0L	1/C	DIODE	CHANGE
	D5795	B0BC9R000008	DZ2J091M0L	1/C	DIODE	CHANGE
	D5804	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D6007	--	B0EAMM000057	5/C	DIODE	ADD
	D6011	B0EAMM000057	--	6/C	--	DELETE
	IC5899	C0DAEYY00040	C0DAZYY00039	1/C	IC	CHANGE
	R2063	D0GB153JA008	D0GB103JA008	1/C	10K 1/10W	CHANGE
	R2124	D0GB273JA008	D0GB153JA008	1/C	15K 1/10W	CHANGE
	R2320	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R2321	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R5929	--	D0GBR00JA008	5/C	0 1/10W	ADD
	R6504	D0GB153JA008	D0GB333JA008	1/C	33K 1/10W	CHANGE
SA-AKX74PN-K	10	RGW0428-S	RGW0428-S1	1/C	VOLUME KNOB	CHANGE
	37	RGU2763-S	RGU2763-S1	1/C	PUSH/PLAY BUTTON	CHANGE
	59	RGQ0672-R	RGQ0672-R1	1/C	FL FILTER SHEET	CHANGE
	C6511	F1H1H222A013	F1H1H102A219	1/C	1000pF 50V	CHANGE
	CN2003	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN2009	K1MY30AA0124	K1MY30AA0267	1/C	30P CONNECTOR	CHANGE
	CN2011	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN5902	K1MY09AA0124	K1MY09AA0266	1/C	9P CONNECTOR	CHANGE
	CN6000	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN6301	K1FY104A0007	K1FY104A0034	1/C	USB CONNECTOR	CHANGE
	D5722	B0BC019A0007	DZ2J200M0L	1/C	DIODE	CHANGE
	D5723	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5724	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5725	B0BC6R100010	DZ2J062M0L	1/C	DIODE	CHANGE
	D5727	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5728	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5732	B0BC035A0007	DZ2J360M0L	1/C	DIODE	CHANGE
	D5795	B0BC9R000008	DZ2J091M0L	1/C	DIODE	CHANGE
	D5804	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D6007	--	B0EAMM000057	5/C	DIODE	ADD
	D6011	B0EAMM000057	--	6/C	--	DELETE
	IC5899	C0DAEYY00040	C0DAZYY00039	1/C	IC	CHANGE
	R2063	D0GB153JA008	D0GB103JA008	1/C	10K 1/10W	CHANGE
	R2124	D0GB273JA008	D0GB153JA008	1/C	15K 1/10W	CHANGE
	R2320	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R2321	D0GB183JA008	D0GB273JA008	1/C	27K 1/10W	CHANGE
	R5929	--	D0GBR00JA008	5/C	0 1/10W	ADD
	R6504	D0GB153JA008	D0GB333JA008	1/C	33K 1/10W	CHANGE

Model No.	Ref No.	Original Part No.	New Part No.	Notes	New Part Name & Description	Remarks
SA-AKX94PH-K	10	RGW0428-S	RGW0428-S1	1/C	VOLUME KNOB	CHANGE
	37	RGU2763-S	RGU2763-S1	1/C	PUSH/PLAY BUTTON	CHANGE
	59	RGQ0672-R	RGQ0672-R1	1/C	FL FILTER SHEET	CHANGE
	A2	K2CQ2CA00007	K2CQ2CA00006	1/C	AC CORD	CHANGE
	C6511	F1H1H222A013	F1H1H102A219	1/C	1000pF 50V	CHANGE
	CN2003	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN2009	K1MY30AA0124	K1MY30AA0267	1/C	30P CONNECTOR	CHANGE
	CN6000	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN6301	K1FY104A0007	K1FY104A0034	1/C	USB CONNECTOR	CHANGE
	D5721	B0BC010A0007	DZ2J110M0L	1/C	DIODE	CHANGE
	D5722	B0BC019A0007	DZ2J200M0L	1/C	DIODE	CHANGE
	D5723	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5724	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5725	B0BC6R100010	DZ2J062M0L	1/C	DIODE	CHANGE
	D5727	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5728	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5732	B0BC035A0007	DZ2J360M0L	1/C	DIODE	CHANGE
	D5795	B0BC9R000008	DZ2J091M0L	1/C	DIODE	CHANGE
	D5804	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	IC5899	C0DAEYY00040	C0DAZYY00039	1/C	IC	CHANGE
	R6504	D0GB153JA008	D0GB333JA008	1/C	33K 1/10W	CHANGE
SA-AKX94PR-K	37	RGU2763-S	RGU2763-S1	1/C	PUSH/PLAY BUTTON	CHANGE
	59	RGQ0672-R	RGQ0672-R1	1/C	FL FILTER SHEET	CHANGE
	P1	RPG9760	RPG9840-1	1/C	PACKING CASE	CHANGE
	C6511	F1H1H222A013	F1H1H102A219	1/C	1000pF 50V	CHANGE
	CN2003	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN2009	K1MY30AA0124	K1MY30AA0267	1/C	30P CONNECTOR	CHANGE
	CN6000	K1MY27AA0124	K1MY27AA0267	1/C	27P CONNECTOR	CHANGE
	CN6301	K1FY104A0007	K1FY104A0034	1/C	USB CONNECTOR	CHANGE
	D5722	B0BC019A0007	DZ2J200M0L	1/C	DIODE	CHANGE
	D5723	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5724	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5725	B0BC6R100010	DZ2J062M0L	1/C	DIODE	CHANGE
	D5727	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5728	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	D5732	B0BC035A0007	DZ2J360M0L	1/C	DIODE	CHANGE
	D5795	B0BC9R000008	DZ2J091M0L	1/C	DIODE	CHANGE
	D5804	B0ACCK000012	DA2J10100L	1/C	DIODE	CHANGE
	IC5899	C0DAEYY00040	C0DAZYY00039	1/C	IC	CHANGE
	R6504	D0GB153JA008	D0GB333JA008	1/C	33K 1/10W	CHANGE

T.I No.

MB2123114
ME2122527
ME2122702
ME2122879
ME2122910
ME2122984
ME2123048
MM2122585
MM2122802
MM2122862
MM2122951
ME2123148
ME2123059

(For Factory Reference only).

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