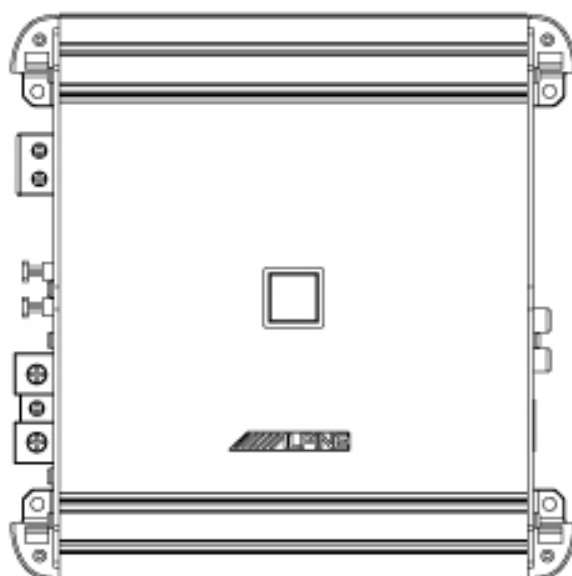


ALPINE

SERVICE MANUAL

MONO POWER AMPLIFIER

Caution : The part marked with  is generating a high voltage, so care will be necessary when working.
The signal pattern on P.W.Board cannot cooperate with the Schematic Diagram.



12 / 12-A
T0111200162

MRV-M500

<Cautions for Safe Repair Work>

The following cautions will prevent accidents in the workplace and will ensure safe products.

*The symbols indicate caution is needed to prevent injuries and damage to property.

The symbols and their meanings follow.

 Warning	If you ignore this symbol and handle the product incorrectly or unsafely, serious injury or death may result.
 Caution	If you ignore this symbol and handle the product incorrectly or unsafely, injury or only material damage may result.

*The following symbols indicate two levels of cautions.

	When you see this symbol, you have to be very careful.
	When you see this symbol, you have to follow the instructions there.

Warning

 Do not look squarely into the laser light coming from the pickup. You may lose your sight.	 Fuse Caution Always use a designated fuse. Use of an incorrect fuse may result in a fire.
---	--

Caution

 Do not allow wiring to be caught in the screw/chassis. If wiring is caught in the screw/chassis, it may cause a short circuit, resulting in a fire.	 Battery Caution Use the designated battery. Confirm the correct polarity and seat of the battery. An incorrect battery or an improperly connected or seated battery may result in a fire.
 High Temperature Caution Touching the heat sink may cause severe burns.	 Designated Parts Caution Look up the part list and ensure that only designated parts are used to prevent problems or accidents.

**Reverse Power Supply Connections or Misconnections Caution**

Reverse power supply connections or misconnections may cause ignition problems and smoke may result.

**Wiring Caution**

Ensure that the wiring is correct when rewiring to prevent problems with ignition/breakdown.

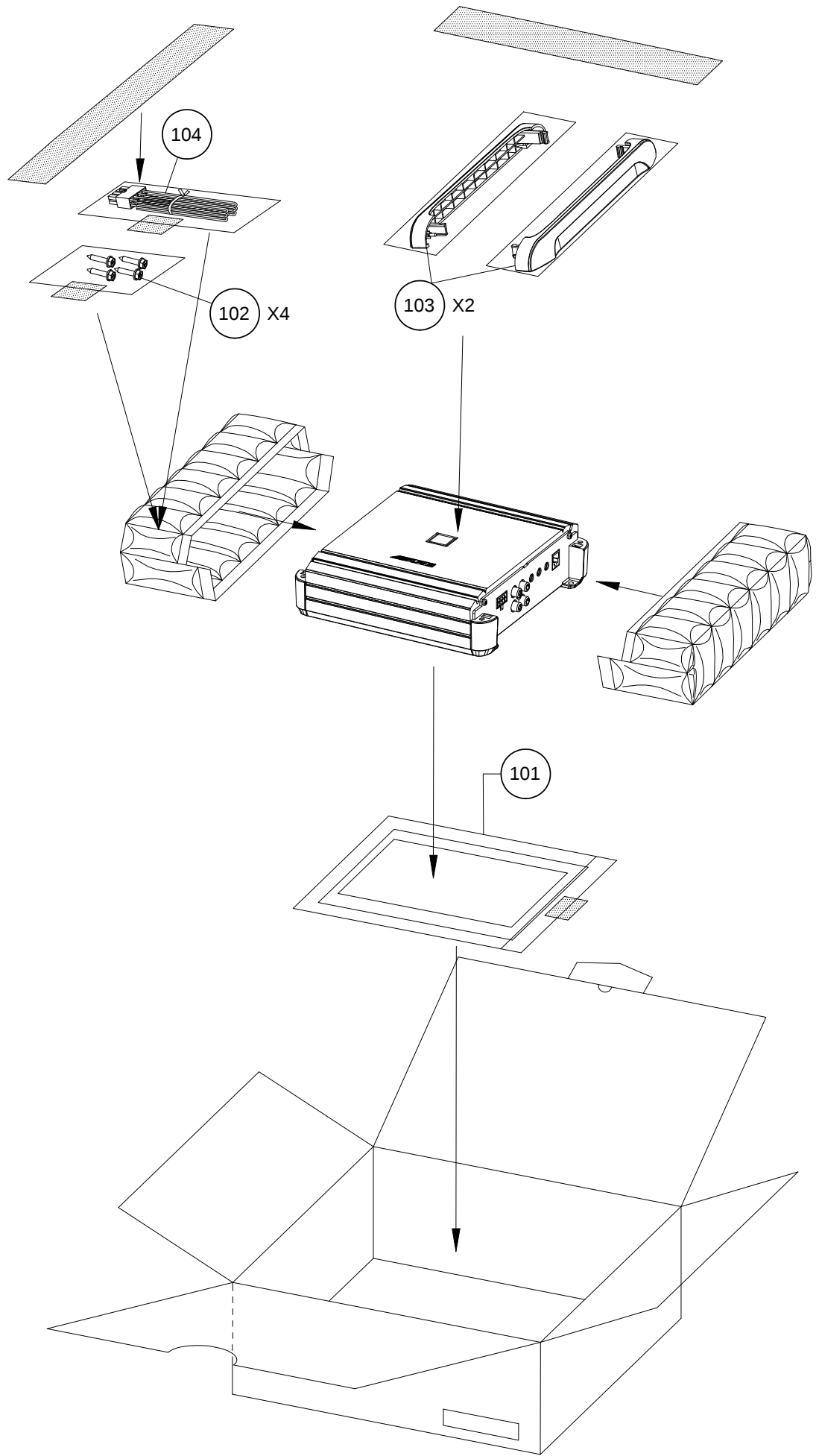
**Soldering Caution**

Hot solder from solder splash may cause severe burns.

**Wear Gloves**

Wear gloves to prevent electrical shocks or injury from the end face of the metal.

Packing Method View



MODEL	Symbol No.	Parts No.	Description
	101	68-21057Z96	MANUAL,OWNER'S
	102	03E40419S01	SCR,M4X20(BLK)
	103	15E43338S01	COVER,TERMINAL
	104	01E42129S01	CONN,ASSY 8P

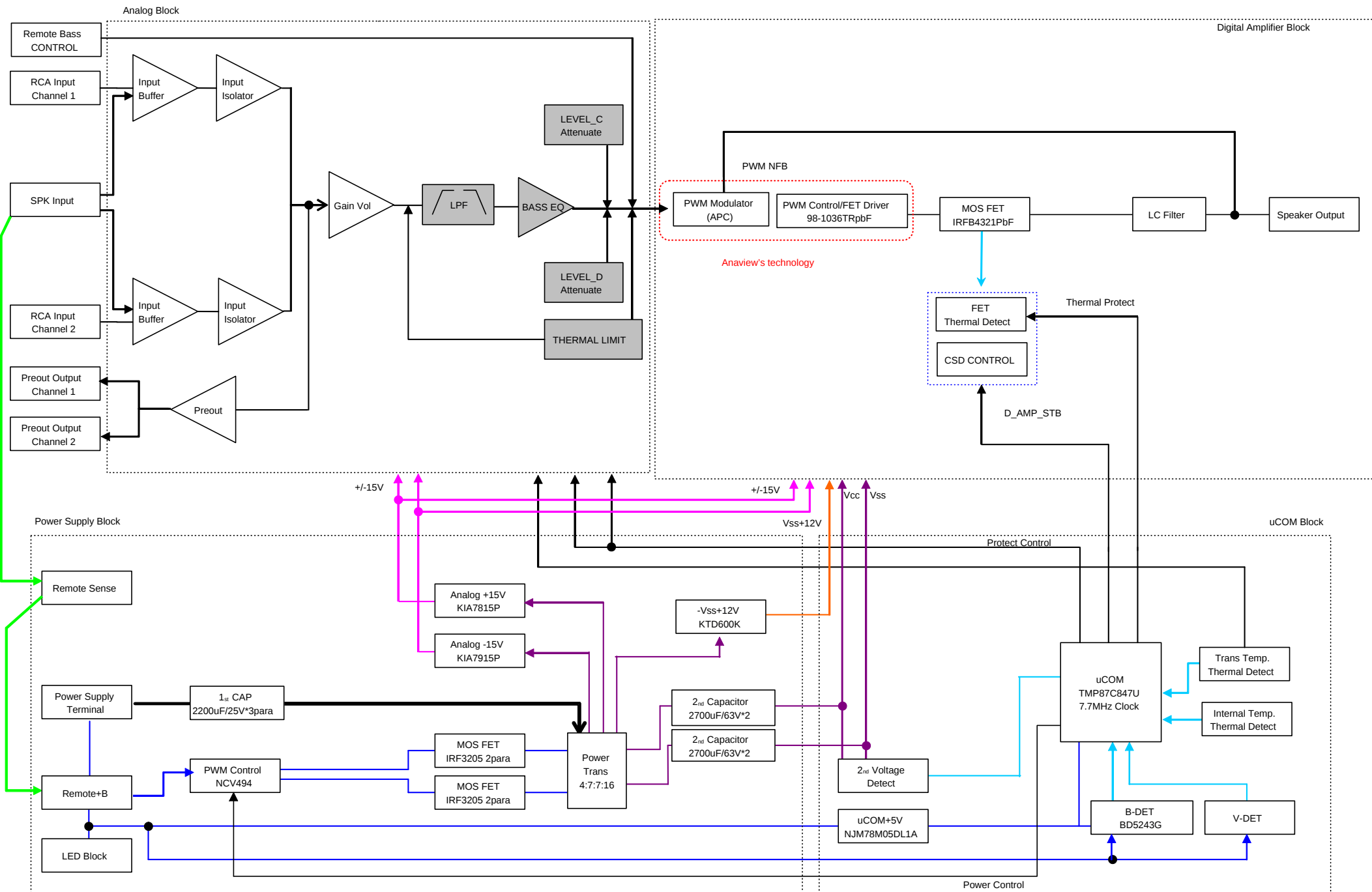
NOTE:The part that has not PART NUMBER will not be supplied.

Specifications

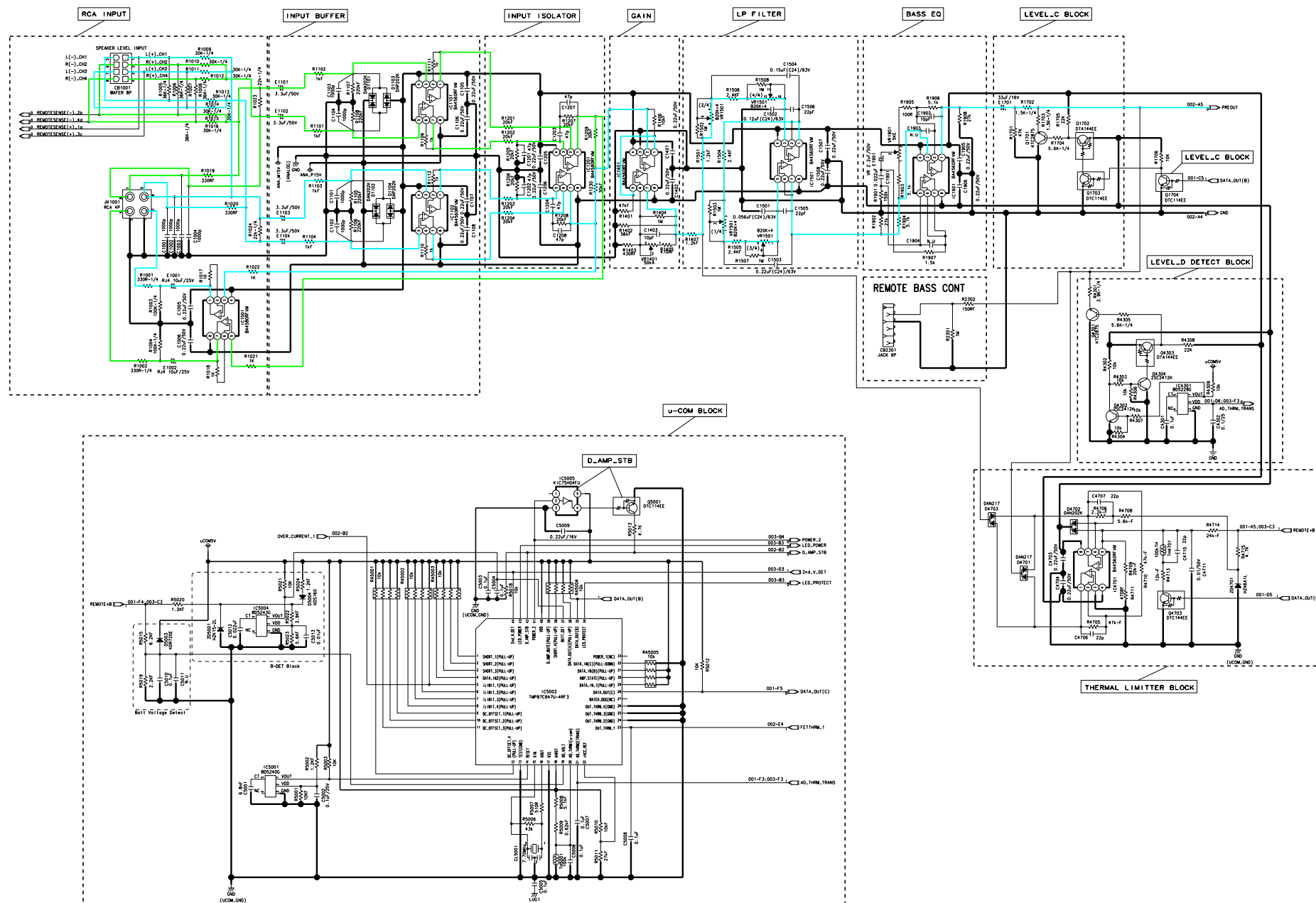
Power Output	(1) 20Hz, 4ohm, 1.0% T.H.D. (14.4V)	300W
	100Hz, 4ohm, 1.0% T.H.D. (14.4V)	300W
	(2) 20Hz, 2ohm, 1.0% T.H.D. (14.4V)	500W
	100Hz, 2ohm, 1.0% T.H.D. (14.4V)	500W
T.H.D. (Gain VR Min Position)	(1) 10W/4ohm at 20Hz / 100Hz (14.4V)	0.01% / 0.02%
	300W/4ohm at 20Hz / 100Hz (14.4V)	0.20%
	(2) 10W/2ohm at 20Hz / 100Hz (14.4V)	0.025% / 0.03%
	500W/2ohm at 20Hz / 100Hz (14.4V)	0.30%
Residual Noise (Input Short)	(3) 350W/1ohm at 20Hz / 100Hz (14.4V)	1.00%
	(1) NON-FILTER + AUX-0025	2mV
	(2) 20KHz LPF + IHF-A	Vol max : 560uV
		Vol cent : 210uV
S/N Ratio (Input Short)	(1) Ref.Output 1W/4ohm, CEA-2006-A	85dB
	(2) Ref.Output 300W/4ohm	110dB
Frequency Response	(1) Ref.Output 1W/4ohm, 100Hz	10Hz : -1.0±2dB
		400Hz : -3.0±2dB
Output Offset Voltage at 4ohm (No Signal)		±30mV
Input Sensitivity (Ref.Output 300W/4ohm, 100Hz)	* Volume Position : MAX	SP-IN : <0.2V
		RCA-IN : <0.09V
	* Volume Position : MIN	SP-IN : 10V±2dB
		RCA-IN : 4V±2dB
LPF Characteristic (Ref.Output 1W/4ohm, 100Hz)	(1) 400Hz (VR Max Position)	-3.0±2dB
	(2) 50Hz (VR Min Position)	-3.0±2dB
BASS-EQ Characteristic (VR Min = 0dB Setting) (Ref.Output 1W/4ohm, 100Hz)	(1) 50Hz (VR Max Position)	12dB±2dB
Pre-Out Level (Ref. RCA-INPUT 1Vrms,100Hz)	(1) Level	0dB±2dB
	(2) Frequency Response	10Hz : -3.0±2dB
Remote Bass Control (Ref.Output 1W/4ohm, 100Hz)		60kHz : -3.0±2dB
	(1) VOL MAX Position	0dBV±2dB
	(2) VOL MIN Position	-20dB±2dB
Remote On Voltage		6V~7V
Current Drain	(1) No Signal	1.5A
	(2) 1.0% T.H.D. at 2ohm, 100Hz	60A
	(3) Remote Current Drain	< 0.53mA
	(4) Back Up Current Drain (after 5min.)	< 0.1mA
Input Impedance (Reference)		10kohm<Zin<30kohm
Fuse Requirement		30A(Peak) x 2 (For Battery Line)
Power Source		DC14.4V (11~16V)
Dimensions (W x H x D)		199.1 x 55 x 199.9mm
Weight		1.8kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Block Diagram

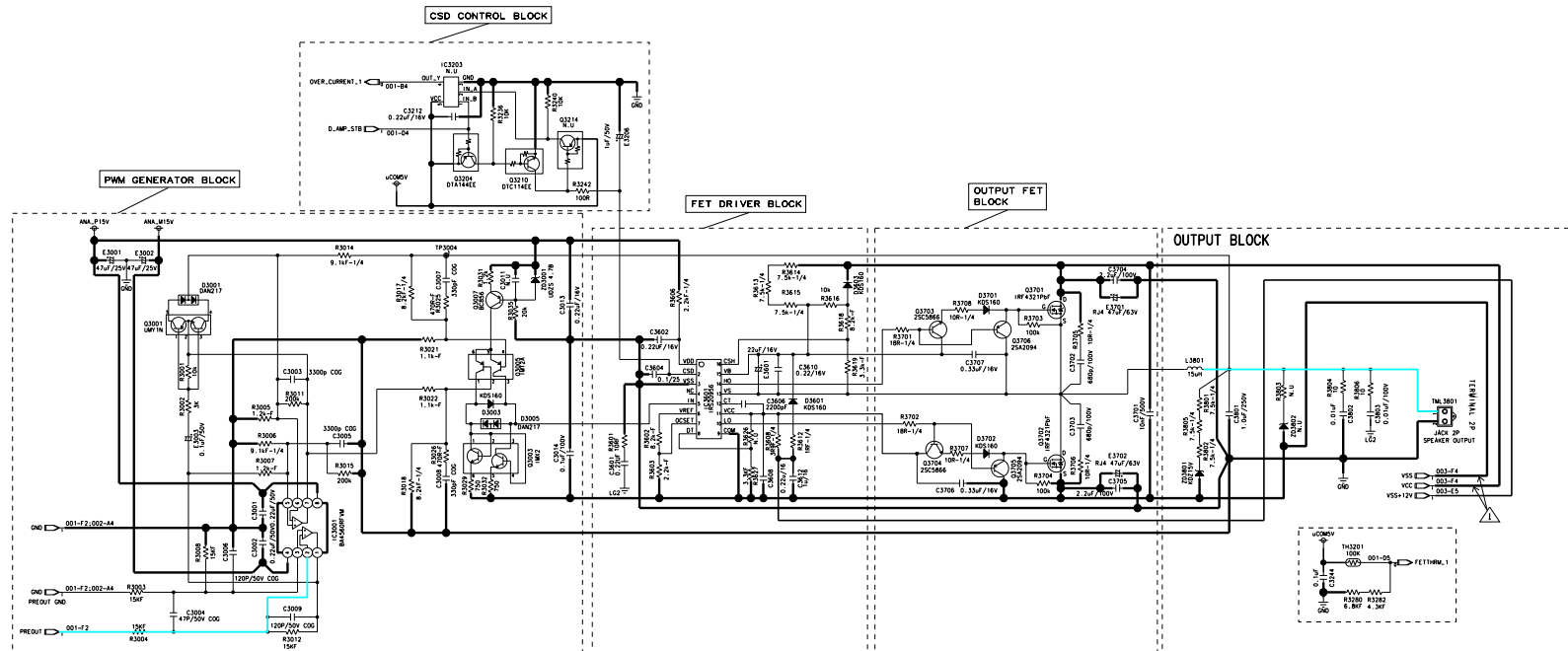


MAIN-P.W.Board(1/3)



NOTE:N.U.is Not Used Parts.

MAIN-P.W.Board(2/3)



Caution: The part marked with ⚠ is generating a high voltate, so care will be necessary when working.

NOTE: N.U. is Not Used Parts.



IC9901		NCV494	
1PIN	Nonlay input	16PIN	Nonlay input
2PIN	Inv input	15PIN	Inv input
3PIN	Compen/PIN Comp input	14PIN	Vref
4PIN	Deadtime Control	13PIN	Output Control
5PIN	CT	12PIN	Vcc
6PIN	RT	11PIN	C2
7PIN	Ground	10PIN	E2
8PIN	C1	9PIN	E1

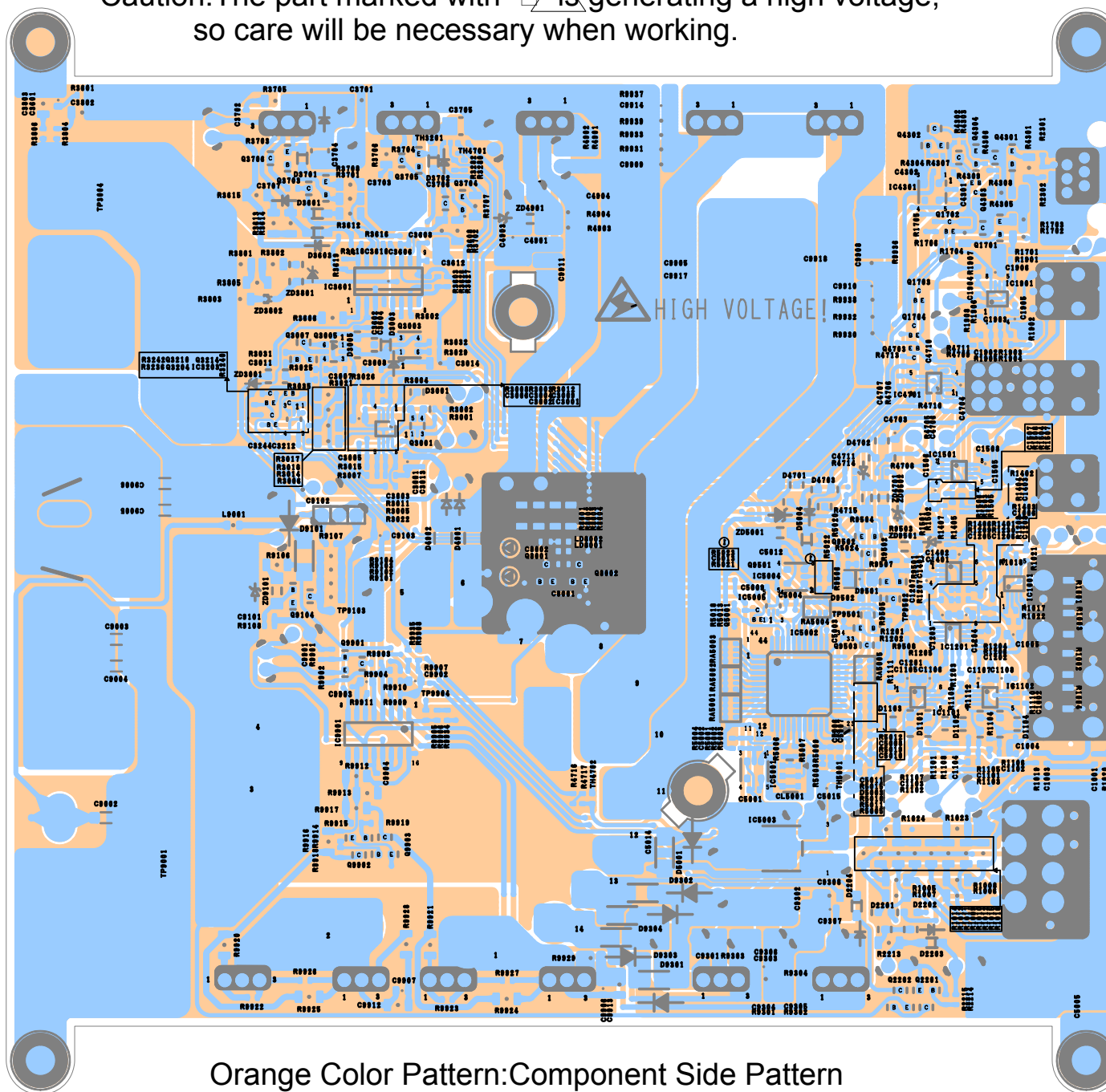
NOTE:N.U.is Not Used Parts.

Orange Color Pattern: Component Side Pattern

The signal pattern on MAIN-P.W.Board cannot cooperate with the Schematic Diagram.

MAIN-P.W.Board

Caution: The part marked with  is generating a high voltage, so care will be necessary when working.



Orange Color Pattern: Component Side Pattern
Blue Color Pattern: Foil Side Pattern

The signal pattern on MAIN-P.W.Board cannot cooperate with the Schematic Diagram.

Terminal Voltage of IC/TR

1] IC [Unit : V]

IC1001 (BA4580RFVM)		IC1101 (BA4560)		IC1102 (BA4560)		IC1201 (BA4580RFVM)		IC1401 (BA4560)	
1	0.00	1	0.00	1	0.00	1	0.00	1	0.00
2	0.00	2	0.00	2	0.00	2	0.00	2	0.00
3	0.00	3	0.00	3	0.00	3	0.00	3	0.00
4	-14.92	4	-14.92	4	-14.92	4	-14.92	4	-14.92
5	0.00	5	0.00	5	0.00	5	0.00	5	0.00
6	0.00	6	0.00	6	0.00	6	0.00	6	0.00
7	0.00	7	0.00	7	0.00	7	0.00	7	0.00
8	15.10	8	15.10	8	15.10	8	15.10	8	15.10

IC1501 (BA4560)		IC1901 (BA4560)		IC3001 (BA4560)		IC3601 (IRS20956S)			
1	0.00	1	0.00	1	0.00	1	10.18	9	-57.00
2	0.00	2	0.00	2	0.00	2	10.18	10	-51.80
3	0.00	3	0.00	3	0.00	3	0.00	11	-45.70
4	-14.92	4	-14.92	4	-14.91	4	-0.20	12	-56.60
5	0.00	5	0.00	5	0.00	5	-55.00	13	0.10
6	0.00	6	0.00	6	0.00	6	-51.90	14	0.10
7	0.00	7	0.00	7	0.00	7	-56.00	15	0.24
8	15.10	8	15.10	8	15.08	8	-57.00	16	-0.04

IC4301 (BD5228G)		IC4701 (BA4560)		IC5001 (BD5240G)		IC5003 (NJM78M05DL1A)		IC5004 (BD5243G)	
1	2.84	1	-7.02	1	5.00	1	13.66	1	5.00
2	4.77	2	0.00	2	4.46	2	0.00	2	7.50
3	0.00	3	0.00	3	0.00	3	5.01	3	0.00
4	-0.20	4	-14.92	4	0.00			4	0.00
5	2.39	5	6.55	5	2.37			5	3.88
		6	6.56						
		7	7.01						
		8	15.10						

IC5002 (TMP87C847UG)							
1	5.00	12	5.00	23	0.92	34	0.00
2	5.00	13	0.00	24	0.00	35	5.00
3	5.00	14	5.00	25	0.00	36	5.00
4	5.00	15	2.01	26	0.00	37	5.00
5	5.00	16	1.93	27	1.72	38	5.00
6	5.00	17	0.00	28	0.00	39	5.00
7	5.00	18	5.00	29	0.00	40	5.00
8	5.00	19	3.77	30	5.00	41	4.91
9	5.00	20	4.61	31	5.00	42	4.96
10	5.00	21	4.55	32	0.00	43	4.91
11	5.00	22	3.66	33	5.00	44	5.00

IC5005 (M74VHC)		IC9301 (KIA7815P)		IC9302 (KIA7915P)		IC9901 (NCV494)			
1	0.20	1	24.57	1	0.00	1	1.15	9	6.38
2	4.70	2	0.00	2	-24.58	2	1.33	10	6.37
3	0.00	3	15.10	3	-14.90	3	0.05	11	14.37
4	0.00					4	0.00	12	14.37
5	5.00					5	1.54	13	4.96
						6	3.47	14	4.96
						7	0.00	15	4.96
						8	14.37	16	0.00

[Measuring Conditions]

1. Power Supply Voltage : DC 14.4V
2. Measuring Meter : Digital Multi Voltmeter
3. Measuring Point Reference : Between GND
4. Measuring Condition : No Signal Input

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			C1001	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1002	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1003	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1004	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1005	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1006	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1101	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1102	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1103	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1104	08E36680S01	CAP,CER. 1000pF/50V
MAIN-P.W.Board			C1105	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1106	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1107	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1108	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1201	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1202	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1203	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1204	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1205	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1206	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1207	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1208	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C1401	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1402	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1403	08E40234S01	CAP,CER. 10pF/50V
MAIN-P.W.Board			C1501	08E43010S01	CAP,FILM 56nF/63V
MAIN-P.W.Board			C1502	08E43011S01	CAP,FILM 120nF/63V
MAIN-P.W.Board			C1503	08E42120S01	CAP,FILM 220nF/63V
MAIN-P.W.Board			C1504	08E42118S01	CAP,FILM 150nF/63V
MAIN-P.W.Board			C1505	08E42323S01	CAP,CER. 22pF/50V
MAIN-P.W.Board			C1506	08E42323S01	CAP,CER. 22pF/50V
MAIN-P.W.Board			C1507	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1508	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1901	08E42142S01	CAP,FILM 22nF/63V
MAIN-P.W.Board			C1902	08E40234S01	CAP,CER. 10pF/50V
MAIN-P.W.Board			C1905	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C1906	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C3001	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C3002	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C3003	08E41389S01	CAP,CER. 3300pF/50V
MAIN-P.W.Board			C3004	08E39649S01	CAP,CER. 47pF/50V
MAIN-P.W.Board			C3005	08E41389S01	CAP,CER. 3300pF/50V
MAIN-P.W.Board			C3006	08E37268S01	CAP,CER. 120pF/50V
MAIN-P.W.Board			C3007	08E41029S01	CAP,CER. 330pF/50V
MAIN-P.W.Board			C3008	08E41029S01	CAP,CER. 330pF/50V
MAIN-P.W.Board			C3009	08E37268S01	CAP,CER. 120pF/50V
MAIN-P.W.Board			C3013	08E36114S01	CAP,CER. 0.22uF/16V

NOTE:The part that has not PART NUMBER will not be supplied.

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			C3014	08E43372S01	CAP,CER. 0.1uF/100V
MAIN-P.W.Board			C3212	08E36114S01	CAP,CER. 0.22uF/16V
MAIN-P.W.Board			C3244	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C3601	08E43373S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C3602	08E36114S01	CAP,CER. 0.22uF/16V
MAIN-P.W.Board			C3604	08E37122S01	CAP,CER. 0.1uF/25V
MAIN-P.W.Board			C3606	08E41392S01	CAP,CER.2200pF/50V
MAIN-P.W.Board			C3608	08E36114S01	CAP,CER. 0.22uF/16V
MAIN-P.W.Board			C3610	08E36114S01	CAP,CER. 0.22uF/16V
MAIN-P.W.Board			C3612	08E41036S01	CAP,CER. 1uF/16V
MAIN-P.W.Board			C3701	08E39104S01	CAP,CER.0.01uF/500V
MAIN-P.W.Board			C3702	08E42140S01	CAP,CER.680pF/100V
MAIN-P.W.Board			C3703	08E42140S01	CAP,CER.680pF/100V
MAIN-P.W.Board			C3704	08E43374S01	CAP,CER. 2.2uF/100V
MAIN-P.W.Board			C3705	08E43374S01	CAP,CER. 2.2uF/100V
MAIN-P.W.Board			C3706	08E37123S01	CAP,CER. 0.33uF/16V
MAIN-P.W.Board			C3707	08E37123S01	CAP,CER. 0.33uF/16V
MAIN-P.W.Board			C3801	08E39770S01	CAP,MYL. 1uF/250V
MAIN-P.W.Board			C3802	08E39662S01	CAP,CER. 0.01uF/100V
MAIN-P.W.Board			C3803	08E39662S01	CAP,CER. 0.01uF/100V
MAIN-P.W.Board			C4301	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C4302	08E37122S01	CAP,CER. 0.1uF/25V
MAIN-P.W.Board			C4703	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C4704	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C4706	08E41028S01	CAP,CER. 22pF/50V
MAIN-P.W.Board			C4707	08E41028S01	CAP,CER. 22pF/50V
MAIN-P.W.Board			C4710	08E41028S01	CAP,CER. 22pF/50V
MAIN-P.W.Board			C4711	08E41031S01	CAP,CER. 0.01uF/50V
MAIN-P.W.Board			C4903	08E43373S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C4904	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5001	08E38538S01	CAP,CER. 6800pF/50V
MAIN-P.W.Board			C5002	08E37122S01	CAP,CER. 0.1uF/25V
MAIN-P.W.Board			C5003	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5004	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5005	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5006	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5007	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5008	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5009	08E36114S01	CAP,CER. 0.22uF/16V
MAIN-P.W.Board			C5010	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C5012	08E37121S01	CAP,CER. 0.022uF/50V
MAIN-P.W.Board			C5013	08E41031S01	CAP,CER. 0.01uF/50V
MAIN-P.W.Board			C5015	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C8001	08E40754S01	CAP,CER.180pF/50V
MAIN-P.W.Board			C8002	08E40754S01	CAP,CER.180pF/50V
MAIN-P.W.Board			C9002	08E39106S01	CAP,CER.100pF/500V
MAIN-P.W.Board			C9003	08E39104S01	CAP,CER.0.01uF/500V

NOTE:The part that has not PART NUMBER will not be supplied.

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			C9004	08E39106S01	CAP,CER.100pF/500V
MAIN-P.W.Board			C9005	08E39104S01	CAP,CER.0.01uF/500V
MAIN-P.W.Board			C9006	08E39106S01	CAP,CER.100pF/500V
MAIN-P.W.Board			C9101	08E41031S01	CAP,CER. 0.01uF/50V
MAIN-P.W.Board			C9103	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C9301	08E37121S01	CAP,CER. 0.022uF/50V
MAIN-P.W.Board			C9302	08E37121S01	CAP,CER. 0.022uF/50V
MAIN-P.W.Board			C9303	08E39103S01	CAP,CER.1000pF/500V
MAIN-P.W.Board			C9304	08E43373S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C9305	08E43373S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C9306	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C9307	23E41346S01	CAP,CER. 0.22uF/50V
MAIN-P.W.Board			C9901	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C9902	08E41392S01	CAP,CER.2200pF/50V
MAIN-P.W.Board			C9903	08E40362S01	CAP,CER. 6800pF/50V
MAIN-P.W.Board			C9904	08E41031S01	CAP,CER. 0.01uF/50V
MAIN-P.W.Board			C9906	08E42189S01	CAP,CER. 1000pF/100V
MAIN-P.W.Board			C9907	08E42189S01	CAP,CER. 1000pF/100V
MAIN-P.W.Board			C9908	08E43375S01	CAP,CER. 0.22uF/500V
MAIN-P.W.Board			C9909	08E43375S01	CAP,CER. 0.22uF/500V
MAIN-P.W.Board			C9911	08E41032S01	CAP,CER. 0.1uF/50V
MAIN-P.W.Board			C9912	08E39662S01	CAP,CER. 0.01uF/100V
MAIN-P.W.Board			C9913	08E39662S01	CAP,CER. 0.01uF/100V
MAIN-P.W.Board			CB1001	09E42802S01	CONN,WAFER 8P
MAIN-P.W.Board			CB2301	09E42970S01	CONN,JACK 6P
MAIN-P.W.Board			CL5001	91E39901S01	RESONATOR,7.7MHz
MAIN-P.W.Board			D1101	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D1102	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D1103	48E36633S01	DIODE,DAP202K
MAIN-P.W.Board			D1104	48E36633S01	DIODE,DAP202K
MAIN-P.W.Board			D2201	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D2202	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D2203	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D2204	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D3001	48E34197S01	DIODE,DAN217
MAIN-P.W.Board			D3003	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D3005	48E34197S01	DIODE,DAN217
MAIN-P.W.Board			D3601	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D3603	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D3701	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D3702	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D4701	48E34197S01	DIODE,DAN217
MAIN-P.W.Board			D4702	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D4703	48E34197S01	DIODE,DAN217
MAIN-P.W.Board			D4901	48E41409S01	DIODE,1SR159
MAIN-P.W.Board			D4902	48E41409S01	DIODE,1SR159
MAIN-P.W.Board			D5001	48E39121S01	DIODE,GN1D

NOTE:The part that has not PART NUMBER will not be supplied.

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			D5003	48E40338S01	DIODE,KDR720E
MAIN-P.W.Board			D5004	48E40918S01	DIODE,KDS160
MAIN-P.W.Board			D9101	48E39121S01	DIODE,GN1D
MAIN-P.W.Board			D9301	48E39388S01	DIODE,MURA110
MAIN-P.W.Board			D9302	48E39388S01	DIODE,MURA110
MAIN-P.W.Board			D9303	48E39388S01	DIODE,MURA110
MAIN-P.W.Board			D9304	48E39388S01	DIODE,MURA110
MAIN-P.W.Board			D9501	48E39100S01	DIODE,RLS-73 90V
MAIN-P.W.Board			D9502	48E36568S01	DIODE,DAN202K
MAIN-P.W.Board			D9901	48E43342S01	DIODE,FML-22R
MAIN-P.W.Board			D9902	48E43341S01	DIODE,FML-22S
MAIN-P.W.Board			E1001	23E38003S01	CAP,ELY. 10uF/25V
MAIN-P.W.Board			E1002	23E38003S01	CAP,ELY. 10uF/25V
MAIN-P.W.Board			E1101	23E38011S01	CAP,ELY. 3.3uF/50V
MAIN-P.W.Board			E1102	23E38011S01	CAP,ELY. 3.3uF/50V
MAIN-P.W.Board			E1103	23E38011S01	CAP,ELY. 3.3uF/50V
MAIN-P.W.Board			E1104	23E38011S01	CAP,ELY. 3.3uF/50V
MAIN-P.W.Board			E1701	23E40237S01	CAP,ELY. 33uF/16V
MAIN-P.W.Board			E1901	23E43009S01	CAP,ELY.2.2uF/50V
MAIN-P.W.Board			E2201	23E38003S01	CAP,ELY. 10uF/25V
MAIN-P.W.Board			E2202	23E38003S01	CAP,ELY. 10uF/25V
MAIN-P.W.Board			E3001	23E42220S01	CAP,ELY.47uF/50V
MAIN-P.W.Board			E3002	23E42220S01	CAP,ELY.47uF/50V
MAIN-P.W.Board			E3003	23E40212S01	CAP,ELY. 0.1uF/50V
MAIN-P.W.Board			E3206	23E39180S01	CAP,ELY. 1uF/50V
MAIN-P.W.Board			E3601	23E38006S01	CAP,ELY. 22uF/16V
MAIN-P.W.Board			E3701	23E43365S01	CAP,ELY. 47uF/63V
MAIN-P.W.Board			E3702	23E43365S01	CAP,ELY. 47uF/63V
MAIN-P.W.Board			E4901	23E39109S01	CAP,ELY. 0.47uF/50V
MAIN-P.W.Board			E4902	23E40762S01	CAP,ELY.100uF/16V
MAIN-P.W.Board			E4903	23E42204S01	CAP,ELY. 330uF/50V
MAIN-P.W.Board			E5001	23E42206S01	CAP,ELY.220uF/25V
MAIN-P.W.Board			E5002	23E40762S01	CAP,ELY.100uF/16V
MAIN-P.W.Board			E9102	23E42203S01	CAP,ELY. 470uF/50V
MAIN-P.W.Board			E9301	23E42204S01	CAP,ELY. 330uF/50V
MAIN-P.W.Board			E9302	23E42204S01	CAP,ELY. 330uF/50V
MAIN-P.W.Board			E9303	23E42206S01	CAP,ELY.220uF/25V
MAIN-P.W.Board			E9304	23E42206S01	CAP,ELY.220uF/25V
MAIN-P.W.Board			E9901	23E38020S01	CAP,ELY. 330uF/10V
MAIN-P.W.Board			E9902	23E40762S01	CAP,ELY.100uF/16V
MAIN-P.W.Board			E9903	23E42796S01	CAP,ELY.2200uF/25V
MAIN-P.W.Board			E9904	23E42796S01	CAP,ELY.2200uF/25V
MAIN-P.W.Board			E9905	23E42796S01	CAP,ELY.2200uF/25V
MAIN-P.W.Board			E9906	23E43340S01	CAP,ELY. 2700uF/63V
MAIN-P.W.Board			E9907	23E43340S01	CAP,ELY. 2700uF/63V
MAIN-P.W.Board			E9908	23E43340S01	CAP,ELY. 2700uF/63V
MAIN-P.W.Board			E9909	23E43340S01	CAP,ELY. 2700uF/63V

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P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			F001	65E38096S01	FUSE,AUTO 30A
MAIN-P.W.Board			F002	65E38096S01	FUSE,AUTO 30A
MAIN-P.W.Board			HL9001	09E42149S01	HOLDER,FUSE
MAIN-P.W.Board			IC1001	51E40776S01	IC,BA4580RFVM
MAIN-P.W.Board			IC1101	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC1102	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC1201	51E40776S01	IC,BA4580RFVM
MAIN-P.W.Board			IC1401	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC1501	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC1901	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC3001	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC3601	51E41426S01	IC,98-1036TR
MAIN-P.W.Board			IC4301	51E40775S01	IC,BD5228G
MAIN-P.W.Board			IC4701	51E39598S01	IC,BA4560RFVM
MAIN-P.W.Board			IC5001	51E40344S01	IC,BD5240G
MAIN-P.W.Board			IC5002	51-04615Z01	IC,TMP87C847UG -QT
MAIN-P.W.Board			IC5003	51E39601S01	IC,NJM78M05DL1A
MAIN-P.W.Board			IC5004	51E39139S01	IC,BD5243G
MAIN-P.W.Board			IC5005	51E43376S01	IC,M74VHC1GT04DFT1G
MAIN-P.W.Board			IC9301	51E43347S01	IC,KIA7815P
MAIN-P.W.Board			IC9302	51E43346S01	IC,KIA7915P
MAIN-P.W.Board			IC9901	51E39585S01	IC,NCV494BDR2G
MAIN-P.W.Board			JK1001	09E42147S01	CONN,RCA 4P
MAIN-P.W.Board			L3801	24E43364S01	COIL,PMAL221A/15uH
MAIN-P.W.Board			L9001	24E40217S01	COIL,IND. 10uH
MAIN-P.W.Board			L9002	24E43348S01	COIL,CHOKE 3.0uH
MAIN-P.W.Board			LD8001	48E41405S01	LED,SML512BC5T BLUE
MAIN-P.W.Board			LD8002	48E41406S01	LED,SML-512UW RED
MAIN-P.W.Board			Q1701	48E39389S01	TR,KTC2875
MAIN-P.W.Board			Q1702	48E40770S01	TR,DTA144EE
MAIN-P.W.Board			Q1703	48E37097S01	TR,DTC114EE
MAIN-P.W.Board			Q1704	48E37097S01	TR,DTC114EE
MAIN-P.W.Board			Q2201	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q2202	48E38062S01	TR,DTA114EK
MAIN-P.W.Board			Q3001	48E41423S01	TR,UMY1N
MAIN-P.W.Board			Q3003	48E41425S01	TR,IMX2
MAIN-P.W.Board			Q3005	48E41498S01	TR,IMT2A
MAIN-P.W.Board			Q3007	48E42168S01	TR,BC856
MAIN-P.W.Board			Q3204	48E40770S01	TR,DTA144EE
MAIN-P.W.Board			Q3210	48E37097S01	TR,DTC114EE
MAIN-P.W.Board			Q3701	48E43343S01	FET,IRFB4321
MAIN-P.W.Board			Q3702	48E43343S01	FET,IRFB4321
MAIN-P.W.Board			Q3703	48E41418S01	TR,2SC5866
MAIN-P.W.Board			Q3704	48E41418S01	TR,2SC5866
MAIN-P.W.Board			Q3705	48E41419S01	TR,2SA2094
MAIN-P.W.Board			Q3706	48E41419S01	TR,2SA2094

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P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			Q4301	48E39389S01	TR,KTC2875
MAIN-P.W.Board			Q4302	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q4303	48E40770S01	TR,DTA144EE
MAIN-P.W.Board			Q4304	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q4703	48E37188S01	TR,DTC144EE
MAIN-P.W.Board			Q4901	48E39128S01	TR,KTD600K
MAIN-P.W.Board			Q5001	48E37097S01	TR,DTC114EE
MAIN-P.W.Board			Q8001	48E40340S01	TR,DTC143XKA
MAIN-P.W.Board			Q8002	48E40340S01	TR,DTC143XKA
MAIN-P.W.Board			Q9103	48E39125S01	TR,KTB1241
MAIN-P.W.Board			Q9104	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q9501	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q9502	48E41051S01	TR,2SC2412K
MAIN-P.W.Board			Q9503	48E36573S01	TR,DTC144EK
MAIN-P.W.Board			Q9901	48E36597S01	TR,DTA124EKA
MAIN-P.W.Board			Q9902	48E39389S01	TR,KTC2875
MAIN-P.W.Board			Q9903	48E39389S01	TR,KTC2875
MAIN-P.W.Board			Q9904	48E37986S01	FET,IRF3205PB
MAIN-P.W.Board			Q9905	48E37986S01	FET,IRF3205PB
MAIN-P.W.Board			Q9906	48E37986S01	FET,IRF3205PB
MAIN-P.W.Board			Q9907	48E37986S01	FET,IRF3205PB
MAIN-P.W.Board			R1001	06E35361S01	RES,CF. 330-1/4W
MAIN-P.W.Board			R1002	06E35361S01	RES,CF. 330-1/4W
MAIN-P.W.Board			R1003	06E32284S01	RES.CF 104-J-1/4-CP
MAIN-P.W.Board			R1004	06E32284S01	RES.CF 104-J-1/4-CP
MAIN-P.W.Board			R1005	06E27630S01	RES,CF. 36K-1/8W
MAIN-P.W.Board			R1006	06E27630S01	RES,CF. 36K-1/8W
MAIN-P.W.Board			R1007	06E27630S01	RES,CF. 36K-1/8W
MAIN-P.W.Board			R1008	06E27630S01	RES,CF. 36K-1/8W
MAIN-P.W.Board			R1009	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1010	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1011	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1012	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1013	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1014	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1015	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1016	06E36581S01	RES,CF. 30K-1/4W
MAIN-P.W.Board			R1017	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1018	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1019	06E36664S01	RES,CF. 330-1/16W
MAIN-P.W.Board			R1020	06E36664S01	RES,CF. 330-1/16W
MAIN-P.W.Board			R1021	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1022	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1023	06E31183S01	RES,CF. 22K-1/4W
MAIN-P.W.Board			R1024	06E31183S01	RES,CF. 22K-1/4W
MAIN-P.W.Board			R1101	06E40187S01	RES,CF. 1K-1/16
MAIN-P.W.Board			R1102	06E40187S01	RES,CF. 1K-1/16

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P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			R1103	06E40187S01	RES,CF. 1K-1/16
MAIN-P.W.Board			R1104	06E40187S01	RES,CF. 1K-1/16
MAIN-P.W.Board			R1105	06E40190S01	RES,CF. 220K-1/16
MAIN-P.W.Board			R1106	06E40190S01	RES,CF. 220K-1/16
MAIN-P.W.Board			R1107	06E40190S01	RES,CF. 220K-1/16
MAIN-P.W.Board			R1108	06E40190S01	RES,CF. 220K-1/16
MAIN-P.W.Board			R1109	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1110	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1111	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1112	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R1201	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1202	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1203	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1204	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1205	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1206	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1207	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1208	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R1209	06E36671S01	RES,CF. 30K-1/16W
MAIN-P.W.Board			R1230	06E36671S01	RES,CF. 30K-1/16W
MAIN-P.W.Board			R1401	06E36563S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R1402	06E40327S01	RES,CF. 56K-1/16W
MAIN-P.W.Board			R1403	06E34170S01	RES,CF. 430-1/16W
MAIN-P.W.Board			R1404	06E41015S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R1405	06E40312S01	RES,CF. 470-1/10W
MAIN-P.W.Board			R1406	06E37110S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R1407	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R1501	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R1502	06E42134S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R1503	06E42134S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R1504	06E40553S01	RES,CF. 2.4K-1/16
MAIN-P.W.Board			R1505	06E40553S01	RES,CF. 2.4K-1/16
MAIN-P.W.Board			R1506	06E40553S01	RES,CF. 2.4K-1/16
MAIN-P.W.Board			R1507	06E42134S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R1508	06E42134S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R1701	06E41009S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R1702	06E35236S01	RES,CF. 1.5K-1/4W
MAIN-P.W.Board			R1703	06E35236S01	RES,CF. 1.5K-1/4W
MAIN-P.W.Board			R1704	06E35367S01	RES,CF. 5.6K-1/4W
MAIN-P.W.Board			R1705	06E40841S01	RES,CF. 22K-1/10W
MAIN-P.W.Board			R1706	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R1901	06E31683S01	RES,CF. 150K-1/16W
MAIN-P.W.Board			R1902	06E37246S01	RES,CF. 27K-1/16W
MAIN-P.W.Board			R1903	06E31156S01	RES,CF. 5.1K-1/16W
MAIN-P.W.Board			R1904	06E31156S01	RES,CF. 5.1K-1/16W
MAIN-P.W.Board			R1905	06E40992S01	RES,CF. 100-1/16W
MAIN-P.W.Board			R1906	06E31156S01	RES,CF. 5.1K-1/16W

NOTE:The part that has not PART NUMBER will not be supplied.

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			R1907	06E40985S01	RES,CF. 1.5K-1/16W
MAIN-P.W.Board			R1908	06E37246S01	RES,CF. 27K-1/16W
MAIN-P.W.Board			R2213	06E29451S01	RES,CF. 8.2K-1/4W
MAIN-P.W.Board			R2214	06E41003S01	RES,CF. 4.7K-1/16W
MAIN-P.W.Board			R2215	06E41010S01	RES,CF. 56K-1/16W
MAIN-P.W.Board			R2301	06E41015S01	RES,CF. 1M-1/16W
MAIN-P.W.Board			R2302	06E41375S01	RES,CF. 150-1/16W
MAIN-P.W.Board			R3001	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R3002	06E37196S01	RES,CF. 3K-1/16W
MAIN-P.W.Board			R3003	06E40189S01	RES,CF. 15K-1/10W
MAIN-P.W.Board			R3004	06E40189S01	RES,CF. 15K-1/10W
MAIN-P.W.Board			R3005	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R3006	06E42958S01	RES,CF. 9.1K-1/4W
MAIN-P.W.Board			R3007	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R3008	06E40189S01	RES,CF. 15K-1/10W
MAIN-P.W.Board			R3011	06E42221S01	RES,CF. 200K-1/16W
MAIN-P.W.Board			R3012	06E40189S01	RES,CF. 15K-1/10W
MAIN-P.W.Board			R3014	06E42958S01	RES,CF. 9.1K-1/4W
MAIN-P.W.Board			R3015	06E42221S01	RES,CF. 200K-1/16W
MAIN-P.W.Board			R3017	06E38536S01	RES,CF. 8.2K-1/4W
MAIN-P.W.Board			R3018	06E38536S01	RES,CF. 8.2K-1/4W
MAIN-P.W.Board			R3021	06E35446S01	RES,CF. 1.1K-1/16W
MAIN-P.W.Board			R3022	06E35446S01	RES,CF. 1.1K-1/16W
MAIN-P.W.Board			R3025	06E40312S01	RES,CF. 470-1/10W
MAIN-P.W.Board			R3026	06E40312S01	RES,CF. 470-1/10W
MAIN-P.W.Board			R3029	06E38584S01	RES,CF. 750-1/16W
MAIN-P.W.Board			R3031	06E41000S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R3032	06E38584S01	RES,CF. 750-1/16W
MAIN-P.W.Board			R3035	06E36660S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R3236	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R3240	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R3242	06E40992S01	RES,CF. 100-1/16W
MAIN-P.W.Board			R3280	06E35291S01	RES,CF. 6.8K-1/16W
MAIN-P.W.Board			R3282	06E35242S01	RES,CF. 4.3K-1/16W
MAIN-P.W.Board			R3601	06E42471S01	RES,CF. 10-1/16W
MAIN-P.W.Board			R3602	06E31809S01	RES,CF. 8.2K-1/16W
MAIN-P.W.Board			R3603	06E40824S01	RES,CF. 2.2K-1/10W
MAIN-P.W.Board			R3606	06E43371S01	RES,CF. 2.2K-1/4W
MAIN-P.W.Board			R3608	06E42136S01	RES,CF. 3.9-1/4W
MAIN-P.W.Board			R3612	06E36614S01	RES,CF. 1-1/4W
MAIN-P.W.Board			R3613	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3614	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3615	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3616	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R3618	06E31809S01	RES,CF. 8.2K-1/16W
MAIN-P.W.Board			R3619	06E37105S01	RES,CF. 3.3K-1/16W
MAIN-P.W.Board			R3627	06E37105S01	RES,CF. 3.3K-1/16W

NOTE:The part that has not PART NUMBER will not be supplied.

P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			R3701	06E28546S01	RES,CF. 18-1/4W
MAIN-P.W.Board			R3702	06E28546S01	RES,CF. 18-1/4W
MAIN-P.W.Board			R3703	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R3704	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R3705	06E36578S01	RES,CF. 10-1/4W
MAIN-P.W.Board			R3706	06E36578S01	RES,CF. 10-1/4W
MAIN-P.W.Board			R3707	06E36578S01	RES,CF. 10-1/4W
MAIN-P.W.Board			R3708	06E36578S01	RES,CF. 10-1/4W
MAIN-P.W.Board			R3801	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3802	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3804	06E40977S01	RES,CF. 10-1/16W
MAIN-P.W.Board			R3805	06E35526S01	RES,CF. 7.5K-1/4W
MAIN-P.W.Board			R3806	06E40977S01	RES,CF. 10-1/16W
MAIN-P.W.Board			R4301	06E36651S01	RES,CF. 3.9K-1/4W
MAIN-P.W.Board			R4302	06E42132S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R4303	06E42132S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R4304	06E43370S01	RES,CF. 24K-1/16W
MAIN-P.W.Board			R4305	06E35367S01	RES,CF. 5.6K-1/4W
MAIN-P.W.Board			R4306	06E43370S01	RES,CF. 24K-1/16W
MAIN-P.W.Board			R4307	06E42132S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R4308	06E42283S01	RES,CF. 22K-1/16W
MAIN-P.W.Board			R4309	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R4705	06E36563S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R4706	06E40824S01	RES,CF. 2.2K-1/10W
MAIN-P.W.Board			R4708	06E40318S01	RES,CF. 5.6K-1/10W
MAIN-P.W.Board			R4709	06E42953S01	RES,CF. 20K-1/16W
MAIN-P.W.Board			R4710	06E36563S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R4711	06E40312S01	RES,CF. 470-1/10W
MAIN-P.W.Board			R4713	06E42473S01	RES,CF. 12K-1/16W
MAIN-P.W.Board			R4714	06E37143S01	RES,CF. 24K-1/16W
MAIN-P.W.Board			R4715	06E41003S01	RES,CF. 4.7K-1/16W
MAIN-P.W.Board			R4716	06E40742S01	RES,CF. 7.5K-1/16W
MAIN-P.W.Board			R4717	06E42183S01	RES,CF. 560-1/16W
MAIN-P.W.Board			R4903	06E40332S01	RES,CF. 3K-1/4W
MAIN-P.W.Board			R4904	06E43368S01	RES,CF. 33K-1/4W
MAIN-P.W.Board			R5001	06E37110S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R5002	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R5003	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R5004	06E40318S01	RES,CF. 5.6K-1/10W
MAIN-P.W.Board			R5005	06E40544S01	RES,CF. 110K-1/16W
MAIN-P.W.Board			R5006	06E28550S01	RES,CF. 43K-1/16W
MAIN-P.W.Board			R5007	06E36461S01	RES,CF. 510-1/16W
MAIN-P.W.Board			R5008	06E35400S01	RES,CF. 5.1K-1/16W
MAIN-P.W.Board			R5009	06E40735S01	RES,CF. 620-1/16W
MAIN-P.W.Board			R5010	06E37110S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R5011	06E36670S01	RES,CF. 27K-1/16W
MAIN-P.W.Board			R5012	06E41005S01	RES,CF. 10K-1/16W

NOTE:The part that has not PART NUMBER will not be supplied.

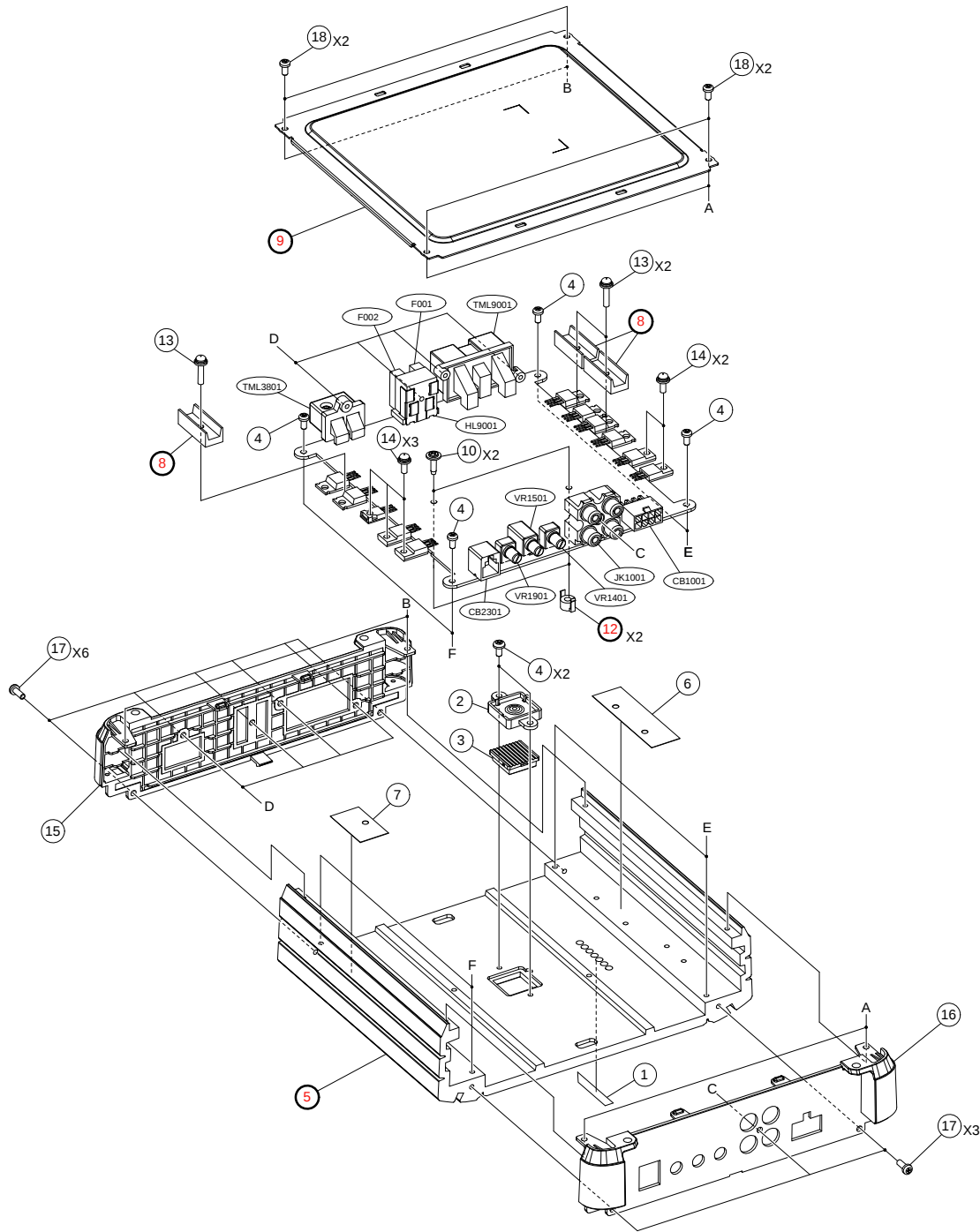
P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			R5013	06E41003S01	RES,CF. 4.7K-1/16W
MAIN-P.W.Board			R5015	06E35290S01	RES,CF. 6.2K-1/16W
MAIN-P.W.Board			R5018	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R5019	06E40824S01	RES,CF. 2.2K-1/10W
MAIN-P.W.Board			R5020	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R5021	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R5022	06E37165S01	RES,CF. 3.9K-1/16W
MAIN-P.W.Board			R5023	06E40318S01	RES,CF. 5.6K-1/10W
MAIN-P.W.Board			R5024	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R8001	06E40358S01	RES,CF. 1.2K-1/4W
MAIN-P.W.Board			R8003	06E31181S01	RES,CF. 1.3K-1/4W
MAIN-P.W.Board			R9101	06E43368S01	RES,CF. 33K-1/4W
MAIN-P.W.Board			R9102	06E42131S01	RES,CF. 2.2K-1/4W
MAIN-P.W.Board			R9103	06E36095S01	RES,CF 182-F-CP
MAIN-P.W.Board			R9104	06E36095S01	RES,CF 182-F-CP
MAIN-P.W.Board			R9106	06E43366S01	RES,CF. 24K-1/4W
MAIN-P.W.Board			R9107	06E37143S01	RES,CF. 24K-1/16W
MAIN-P.W.Board			R9108	06E37143S01	RES,CF. 24K-1/16W
MAIN-P.W.Board			R9301	06E40318S01	RES,CF. 5.6K-1/10W
MAIN-P.W.Board			R9302	06E35291S01	RES,CF. 6.8K-1/16W
MAIN-P.W.Board			R9303	06E43369S01	RES,CF. 200K-1/16W
MAIN-P.W.Board			R9304	06E43367S01	RES,CF. 300K-1/16W
MAIN-P.W.Board			R9501	06E40841S01	RES,CF. 22K-1/10W
MAIN-P.W.Board			R9502	06E41009S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R9503	06E40841S01	RES,CF. 22K-1/10W
MAIN-P.W.Board			R9504	06E41009S01	RES,CF. 47K-1/16W
MAIN-P.W.Board			R9505	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R9506	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R9507	06E40841S01	RES,CF. 22K-1/10W
MAIN-P.W.Board			R9508	06E41005S01	RES,CF. 10K-1/16W
MAIN-P.W.Board			R9901	06E41003S01	RES,CF. 4.7K-1/16W
MAIN-P.W.Board			R9903	06E36584S01	RES,CF. 820-1/16W
MAIN-P.W.Board			R9904	06E36585S01	RES,CF. 2.2K-1/16W
MAIN-P.W.Board			R9905	06E37114S01	RES,CF. 68K-1/16W
MAIN-P.W.Board			R9906	06E40315S01	RES,CF. 1.2K-1/16W
MAIN-P.W.Board			R9907	06E40824S01	RES,CF. 2.2K-1/10W
MAIN-P.W.Board			R9908	06E37114S01	RES,CF. 68K-1/16W
MAIN-P.W.Board			R9909	06E32037S01	RES,CF. 120K-1/16W
MAIN-P.W.Board			R9910	06E40841S01	RES,CF. 22K-1/10W
MAIN-P.W.Board			R9911	06E37275S01	RES,CF. 3K-1/16W
MAIN-P.W.Board			R9912	06E36579S01	RES,CF. 1K-1/4W
MAIN-P.W.Board			R9913	06E36579S01	RES,CF. 1K-1/4W
MAIN-P.W.Board			R9914	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R9915	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R9916	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9917	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9918	06E40999S01	RES,CF. 1K-1/16W

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P.W.Board	MIS	MODEL	Ref.	Parts No.	Parts Name
MAIN-P.W.Board			R9919	06E40999S01	RES,CF. 1K-1/16W
MAIN-P.W.Board			R9920	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9921	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9922	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R9923	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R9924	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9925	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9926	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R9927	06E41011S01	RES,CF. 100K-1/16W
MAIN-P.W.Board			R9928	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9929	06E22113S01	RES,CF. 22-1/4W
MAIN-P.W.Board			R9930	06E36557S01	RES,CARBON 16K-1/4
MAIN-P.W.Board			R9931	06E40359S01	RES,CF. 20K-1/4W
MAIN-P.W.Board			R9932	06E36557S01	RES,CARBON 16K-1/4
MAIN-P.W.Board			R9933	06E40359S01	RES,CF. 20K-1/4W
MAIN-P.W.Board			R9934	06E40733S01	RES,CF. 200-1/16W
MAIN-P.W.Board			R9935	06E37224S01	RES,CF. 2K-1/16W
MAIN-P.W.Board			R9936	06E33241S01	RES,CF 334-F-1/16-CP
MAIN-P.W.Board			R9937	06E41384S01	RES,CF. 160K-1/16W
MAIN-P.W.Board			R9938	06E36557S01	RES,CARBON 16K-1/4
MAIN-P.W.Board			R9939	06E40359S01	RES,CF. 20K-1/4W
MAIN-P.W.Board			RA5001	06E39855S01	RES,ARRAY. 10K-1/16W
MAIN-P.W.Board			RA5002	06E39855S01	RES,ARRAY. 10K-1/16W
MAIN-P.W.Board			RA5003	06E39855S01	RES,ARRAY. 10K-1/16W
MAIN-P.W.Board			RA5004	06E39855S01	RES,ARRAY. 10K-1/16W
MAIN-P.W.Board			RA5005	06E39855S01	RES,ARRAY. 10K-1/16W
MAIN-P.W.Board			T9901	25E43349S01	TRANS,POWER PMAL221A
MAIN-P.W.Board			TH3201	48E42173S01	THERMISTOR,100K
MAIN-P.W.Board			TH4701	48E40530S01	THERMISTOR,100K
MAIN-P.W.Board			TH4702	48E40530S01	THERMISTOR,100K
MAIN-P.W.Board			TH5001	48E40530S01	THERMISTOR,100K
MAIN-P.W.Board			TML3801	09E43345S01	CONN,JACK 2P
MAIN-P.W.Board			TML9001	09E43344S01	CONN,JACK 3P
MAIN-P.W.Board			VR1401	18E41439S01	VOL,ROTARY 50KX1
MAIN-P.W.Board			VR1501	18E42155S01	VOL,ROTARY 20KX4
MAIN-P.W.Board			VR1901	18E42212S01	VOL,ROTARY 5K
MAIN-P.W.Board			ZD3001	48E42167S01	DIODE,ZENER UDZS4.7B
MAIN-P.W.Board			ZD3801	48E42166S01	DIODE,ZENER KDZ15V-Y
MAIN-P.W.Board			ZD4701	48E39101S01	DIODE,ZENER HZK6A1L
MAIN-P.W.Board			ZD4901	48E39120S01	DIODE,ZENER HZK12A2L
MAIN-P.W.Board			ZD5001	48E39118S01	DIODE,ZENER HZK15-2L
MAIN-P.W.Board			ZD9101	48E39101S01	DIODE,ZENER HZK6A1L
MAIN-P.W.Board			ZD9501	48E39101S01	DIODE,ZENER HZK6A1L
MAIN-P.W.Board			ZD9502	48E39101S01	DIODE,ZENER HZK6A1L

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Exploded View (Cabinet)



MODEL	Symbol No.	Parts No.	Description
	<u>1</u>	33E39669S01	PLATE,NAME-F
	<u>2</u>	61E43339S01	LENS HOLDER
	<u>3</u>	34E42164S01	INDICATOR,LENS
	<u>4</u>	03E29276S01	SCR,M3X6(P)(WHT)
	<u>5</u>	-----	HEAT,SINK
	<u>6</u>	14E40951S01	INSULATOR,SILPAD-2H
	<u>7</u>	14E40967S01	INSULATOR,SILPAD-1H
	<u>8</u>	-----	HEAT,SINK BAR
	<u>9</u>	-----	COVER,BOTTOM
	<u>10</u>	03E39165S01	SCR,M3X11(WP)(WHT)
	<u>12</u>	-----	SUPPORT,PWB
	<u>13</u>	03E38094S01	SCR,M3X15.5(WS)
	<u>14</u>	03E40789S01	SCR,M3X9 (WS)(WHT)
	<u>15</u>	15E43335S01	COVER FRONT
	<u>16</u>	15E43336S01	COVER REAR
	<u>17</u>	03E38698S01	SCR,M3X8(P)(BLK)
	<u>18</u>	03E38095S01	SCR,M3X6(P)
	<u>CB1001</u>	09E42802S01	CONN,WAFER 8P
	<u>CB2301</u>	09E42970S01	CONN,JACK 6P
	<u>F001</u>	65E38096S01	FUSE,AUTO 30A
	<u>F002</u>	65E38096S01	FUSE,AUTO 30A
	<u>HL9001</u>	09E42149S01	HOLDER,FUSE
	<u>JK1001</u>	09E42147S01	CONN,RCA 4P
	<u>TML3801</u>	09E43345S01	CONN,JACK 2P
	<u>TML9001</u>	09E43344S01	CONN,JACK 3P
	<u>VR1401</u>	18E41439S01	VOL,ROTARY 50KX1
	<u>VR1501</u>	18E42155S01	VOL,ROTARY 20KX4
	<u>VR1901</u>	18E42212S01	VOL,ROTARY 5K

NOTE:The part that has not PART NUMBER will not be supplied.