not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

NOTE

- *We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts, which are not mentioned in service manual, are not supplied.*
- *For improvement purposes, specifications and design are subject to change without prior notice.*

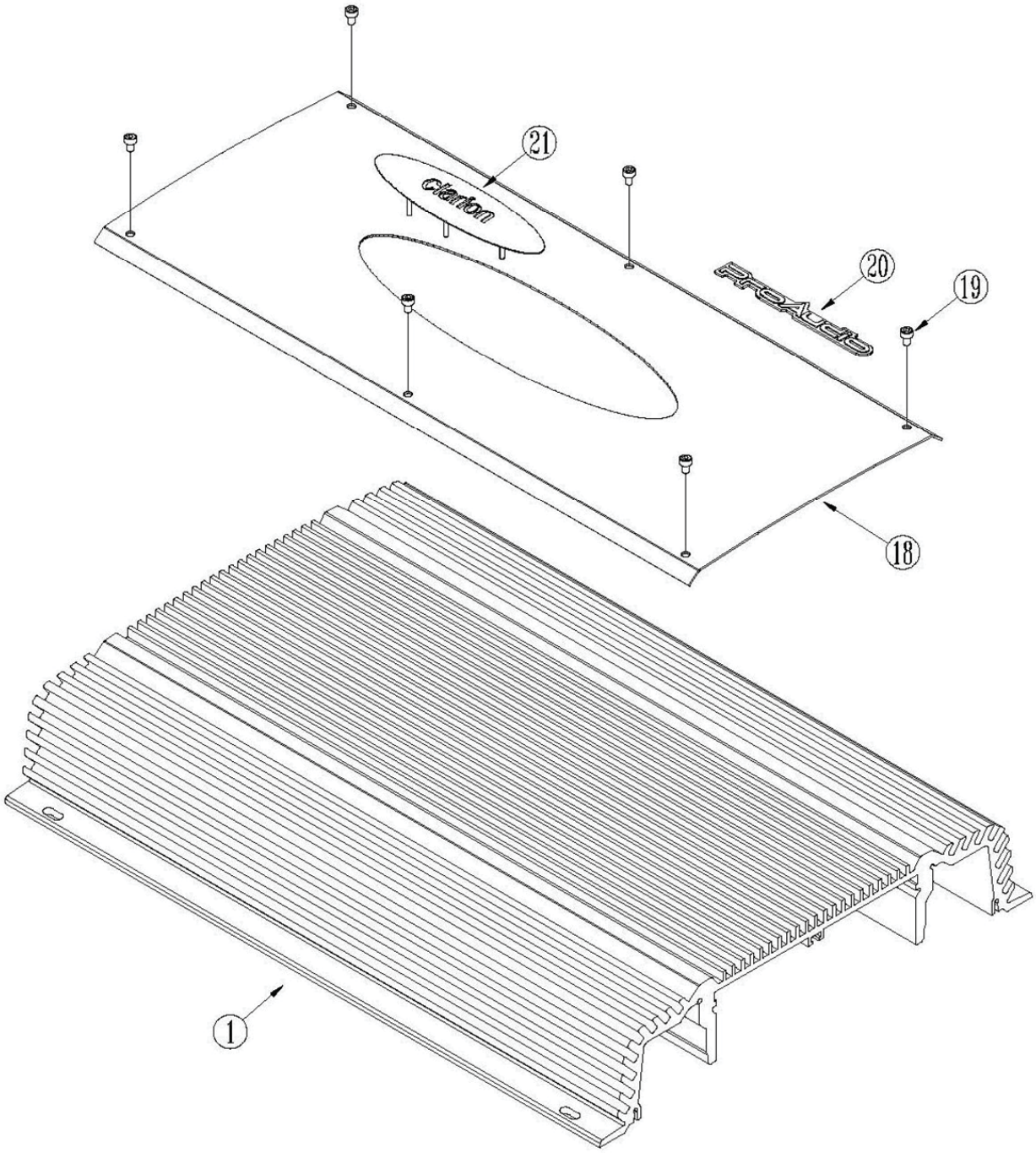
■TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
No audio	Low or no turn-on voltage	Check remote connections at amplifier and head unit.
	Blown fuse	Replace with new fast-blown fuse (same rating).
	Power wires not connected	-Check power and ground connection at amplifier. -Check battery connections.
	Speakers not connected or blown	-Check speaker connections at amplifier. -Measure coil impedance.
Audio cycles on and off	Thermal protection circuits are shutting amplifier off	- Check location for adequate ventilation. - Consult an authorized Clarion dealer
Disturbed sound	Gain controls is not set properly, or damaged speaker cones	-Adjust gain control -Check each speaker cone for signs of damage (e.g. frozen cone, burning smell, etc)
Sound lacks punch	Speakers wired incorrectly, which causes cancellation of bass frequencies	Check polarity of wires from amplifier to each speakers as illustrated in connection examples
Whining or ticking noise in the sound with engine on	Amplifier is picking up alternator noise or radiated noise	-Check power and ground connections on amplifier. -Check or move audio cables -Install an in-line noise filter on head unit's power wire -Check alternator and/or voltage regulator -Test for weak battery or ad water to battery

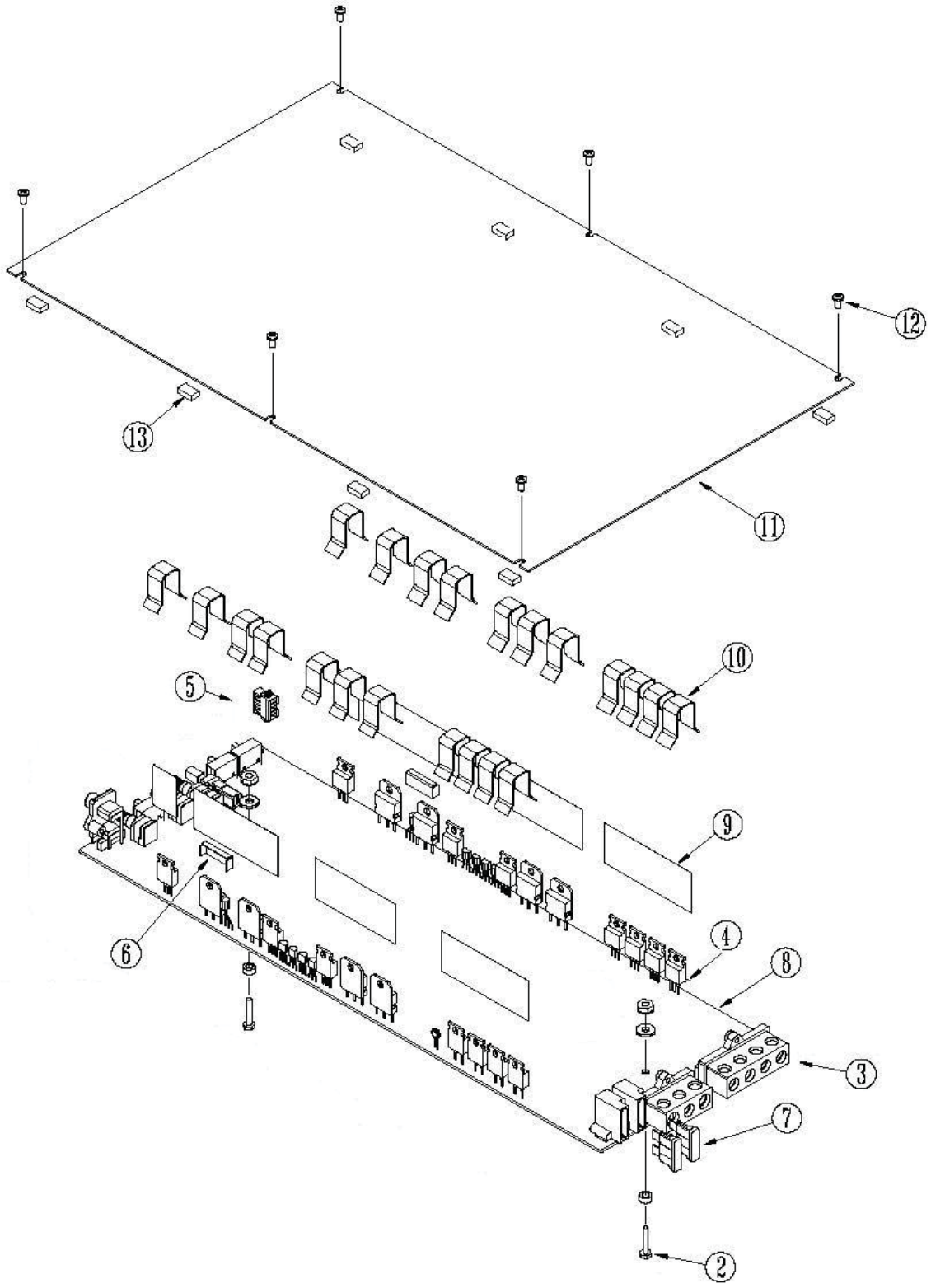
■ EXPLODED VIEW / PARTS LIST:

REF. NO	PART NO	DESCRIPTION	SPECIFICATION	Q'TY
1	77-00293-00	HEAT SINK	381.1mm BLACK	1
2	YH-00007-00	PCB FIX SCREW	A+B+C+D	2
3	32-00655-00	TERMINAL	SL-KOR-3P	1
3	32-00657-00	TERMINAL	SL-KOR-4P	1
4	78-00284-00	SILICON TUBE	2mm*6mm	16
4	78-00292-00	SILICON TUBE	2mm*8mm	28
5	34-00150-03	HIGH LEVEL INPUT		1
6	74-00165-00	TRANSISTOR CLIP		2
7	76-00279-00	FUSE	ATC-25A	2
8	11-00596-00	P.C.B.	APX640.2	1
9	78-00305-00	MICA	25*30mm	3
9	78-00306-00	MICA	25*40mm	5
9	78-00307-00	MICA	25*50mm	2
9	78-00310-00	KAPTON	25mm*65mm	1
10	74-00153-00	CLIP	BLACK	22
11	72-00396-00	BOTTOM PLATE	385.5mm BLACK	1
12	ST-RP430-06	SCREW	R-HEAD BLACK 3*6	6
13	78-00296-00	SPONGE PLATE	10*20mm, 3mm	16
14	ST-IH430-08	SCREW	HEX BLACK 3*8	8
14	ST-IH430-12	SCREW	HEX BLACK 3*12	3
15	ST-RP420-08	SCREW	R-HEAD BLACK 2*8	4
16	71-00570-GK	FRONT PANNEL	APX640.2 BLACK	1
17	71-00578-00	REAR PANNEL	APX640.2 BLACK	1
18	72-00395-00	TOP PLATE	640.2	1
19	ST-IH430-05	SCREW	HEX BLACK 3*5	6
20	75-00178-00	PROAUDIO BADGE	PROAUDIO	1
21	75-00021-00	CLARION BADGE	CLARION	1

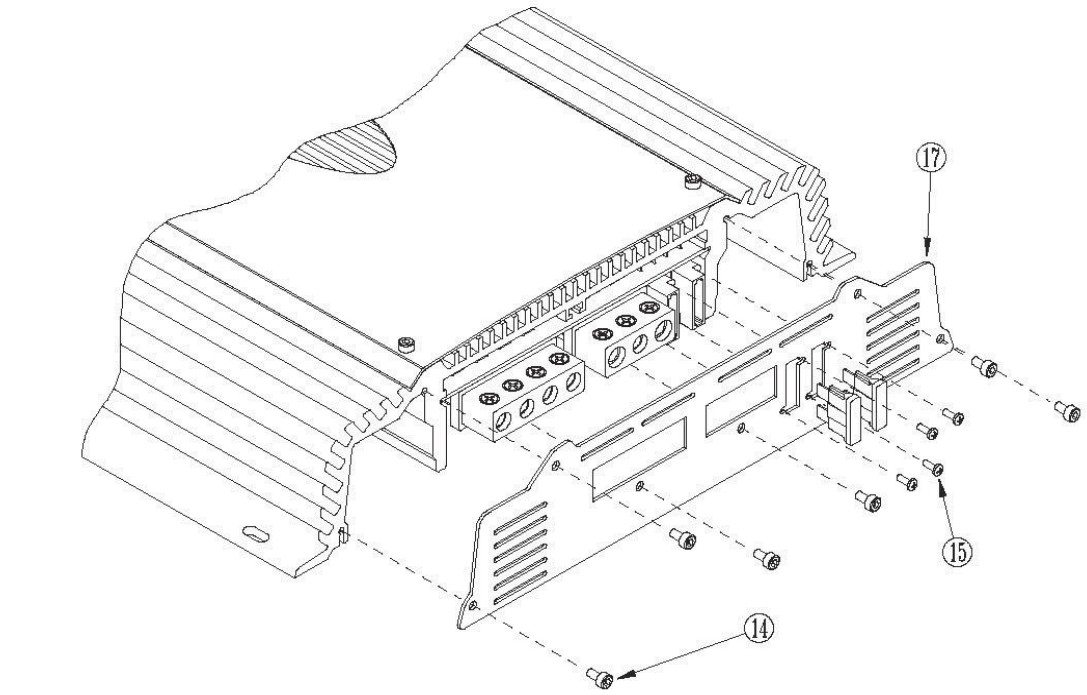
Top View

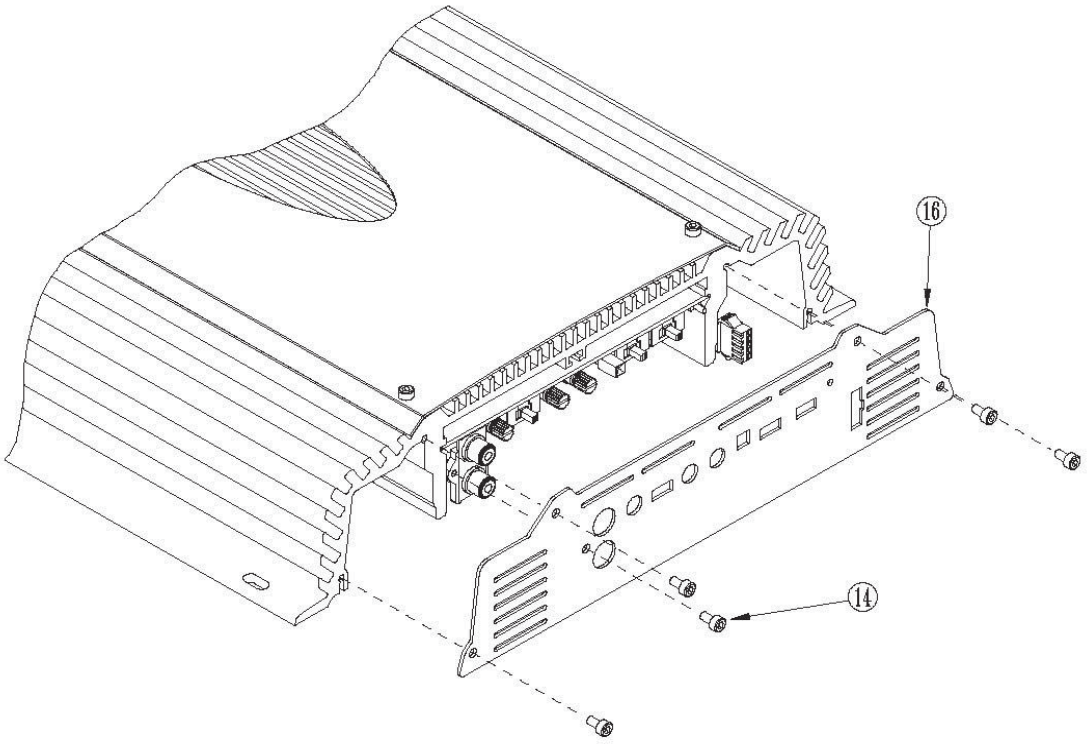


Bottom View



Side View





■ELECTRICAL PART LIST:

REF. NO	PARTNO	DES	SPEC	q'ty
C11 C19 C21 C35 C36 C82 C87 C100	04-20680-02	CERAMIC -NPO-	68P/J 50V	8
C1-2 C4-6 C13 C20 C22-23 C29-31 C37-38 C40 C45 C47-49 C56 C58-59 C65 C68 C70-72 C74-75 C78 C80 C83 C90 C93-95 C98	03-21040-04	POLY CAP	104J	37
C12 C84	04-21500-02	CERAMIC -NPO-	150P/J 50V	2
C16-17 C51-53 C64 C89 C96 C99	02-21001-41	ELE. CAPACITOR	10uf/50V	9
C18 C85	04-20100-02	CERAMIC -NPO-	10P/J 50V	2
C26 C69	02-21002-00	ELE. CAP -NP-	100uf/16V	2
C27-28 C43-44 C91 C97	04-20330-02	CERAMIC -NPO-	33P/J 100V	6
C3 C92	02-24702-21	ELE. CAPACITOR	470uf/16V	2
C32 C60	03-21020-04	POLY CAP	102J	2
C33-34 C54-55	02-21003-41	E/C.16*32 L ESR	1000uf/50V 105C	4
C39 C73 C86	03-22720-04	POLY CAP	272J	3
C41 C57 C63 C81	03-24740-04	POLY CAP	474J	4
C42 C50	03-26820-04	POLY CAP	682J	2
C46	03-24730-04	POLY CAP	473J	1
C61-62	02-24701-21	ELE. CAPACITOR	47uF/16V	2
C66	02-21000-41	ELE. CAPACITOR	1uf/50V	1
C67 C88	02-23303-31	E/C. Low ESR	3300uf/25V 105C	2
C76-77 C79	03-21030-04	POLY CAP	103J	3
C7-8 C24-25	03-25630-04	POLY CAP	563J	4
C9-10 C14-15	03-25620-04	POLY CAP	562J	4
D1-4	09-40008-00	RECT ULTRAFAST	FES8DT,MUR820	4
D18	09-15401-01	DIODE	IN5402 3A/200V	1
D5-8 D11-15 D19-20	09-14148-01	DIODE 1N4148	DO-35 50mA 100V	11
D9-10 D16-17	09-14934-00	DIODE FAST 100V	1N4934,1N4734	4
DZ1	09-20120-03	ZENER DIODE	1N759A 12V 1/2W	1
DZ2	09-20100-03	ZENER DIODE	HZ11-2TA 10V	1
DZ3-4	09-20160-03	ZENER DIODE	HZ16-2TA 16V	2
DZ5-6	09-00510-00	ZENER DIODE	1N5262B 51V	2
FH1-2	76-00239-00	FUSE HOLD	JEF-703E	2
J3	32-20223-04	RCA JACK 2P RL-	1416-2G	1
L1-2	20-00107-00	COIL	SMALL ZIBBLE	2
LED1	19-00302-04	LED BLUE -DOT-	SB434C	1
M1-4	08-50N06-00	FET	FQP50N06	4
Q1 Q3 Q25 Q27	08-00035-00	TRANSISTOR	TIP35C	4
Q10 Q11 Q34 Q35	08-00036-00	TRANSISTOR	TIP36C	4
Q2 Q7-8 Q15-17 Q20-21 Q26 Q31-32	08-10006-01	T.R	MPSA06	11
Q24	08-26715-00	TRANSISTOR	2N6715 2A 50V	1
Q4 Q28	08-00031-00	TRANSISTOR	TIP31C	2
Q5-6 Q12-14 Q18-19 Q22-23 Q29-30	08-10056-01	T.R	MPSA56	11
Q9 Q33	08-00032-00	TRANSISTOR	TIP32C	2
R1	01-53120-22	RESISTOR 1%	3.16 K 1/2W	1
R10	01-53330-63	RESISTOR 1%	33.2 K 1/8W	1
R100 R103	01-57510-63	RESISTOR 1%	750 ohm 1/8W	2
R101	01-52200-63	RESISTOR 1%	221 ohm 1/8W	1

R104 R110	01-53020-63	RESISTOR	1%	3.01 K 1/8W	2
R11 R168	01-55120-63	RESISTOR	1%	5.11 K 1/8W	2
R128 R156	01-12750-63	RESISTOR		2.7 M 1/8W	2
R13-14 R19 R21 R102 R109	01-55001-43	RESISTOR	1%	5.1 ohm 1/4W	6
R132-133	01-51830-63	RESISTOR	1%	18.2 K 1/8W	2
R138	01-59320-63	RESISTOR	1%	9.31 K 1/8W	1
R140 R143	01-55620-63	RESISTOR	1%	5.62 K 1/8W	2
R144 R129	01-57110-63	RESISTOR	1%	715 ohm 1/8W	2
R157 R176	01-56830-63	RESISTOR	1%	68.1 K 1/8W	2
R16	01-54020-63	RESISTOR	1%	4.02 K 1/8W	1
R161 R172	01-52230-63	RESISTOR	1%	22.1 K 1/8W	2
R164 R166	01-51000-63	RESISTOR	1%	10 ohm 1/8W	2
R165 R169	01-56820-63	RESISTOR	1%	6.81 K 1/8W	2
R167	01-54740-63	RESISTOR	1%	475 K 1/8W	1
R17 R66	01-51420-63	RESISTOR	1%	1.43 K 1/8W	2
R18 R25 R27-29 R163 R185 R168 R188	01-10001-73	RESISROR	-MO-	0.1 ohm 2W	10
R189	01-52702-63	RESISTOR	1%	27.4 K 1/8W	1
R190	01-51040-63	RESISTOR	1%	100 K 1/8W	1
R2 R177	01-52710-63	RESISTOR	1%	274 ohm 1/8W	2
R20 R24 R30-31 R47-48 R52 R58 R63 R65 R120 R125 R145 R153	01-52020-63	RESISTOR	1%	2 K 1/8W	14
R32 R37-38 R56 R59 R61 R64 R78 R113 R117 R119 R122 R124 R146 R148-149 R171 R175 R182-184 R192	01-52206-63	RESISTOR	1%	22.1 ohm 1/8W	22
R33 R92	01-53910-43	RESISTOR	1%	392 ohm 1/4W	2
R34 R144	01-59000-63	RESISTOR	1%	909 ohm 1/8W	2
R35 R141 R154	01-52120-63	RESISTOR	1%	2.15 K 1/8W	3
R3-6 R178-181	01-51210-63	RESISTOR	1%	121 ohm 1/8W	8
R36 R40 R147 R151	01-54710-63	RESISTOR	1%	475 ohm 1/8W	4
R39 R41-42 R135 R150 R152	01-58220-43	RESISTOR	1%	8.25 K 1/4W	6
R43-44 R136 -137	01-55618-63	RESISTOR	1%	56.2 ohm 1/8W	4
R45-46 R82-83 R170 R191 R193	01-52030-63	RESISTOR	1%	20 K 1/8W	7
R49-50 R72-73	01-51430-63	RESISTOR	1%	14 K 1/8W	4
R51 R57 R62 R111-112 R115 R121 R126	01-51020-63	RESISTOR	1%	1 K 1/8W	8
R53 R108	01-51620-63	RESISTOR	1%	1.62 K 1/8W	2
R55 R60 R118 R123 R162 R173	01-56800-63	RESISTOR	1%	681 ohm 1/8W	6
R7 R12 R71 R174	01-53420-63	RESISTOR	1%	3.48 K 1/8W	4
R70	01-13000-73	RESISTOR	-MO-	30 ohm 2W 5%	1
R74	01-54710-43	RESISTOR	1%	475 ohm 1/4W	1
R77 R98-99	01-51538-63	RESISTOR	1%	15.8 K 1/8W	3
R79-80 R85 R95 R127 R155 R159 R160	01-51030-63	RESISTOR	1%	10 K 1/8W	8
R8 R54 R116	01-58220-63	RESISTOR	1%	8.25 K 1/8W	3
R84	01-53340-63	RESISTOR	1%	332 K 1/8W	1
R88	01-54730-63	RESISTOR	1%	47.5 K 1/8W	1
R89	01-54340-63	RESISTOR	1%	432 K 1/8W	1
R9 R15 R22-23 R67-69 R75-76 R81 R86-87 R90 R142	01-54720-63	RESISTOR	1%	4.75 K 1/8W	14
R91 R130	01-52440-63	RESISTOR	1%	243 K 1/8W	2
R93 R106-107	01-51010-63	RESISTOR	1%	100 ohm 1/8W	3
R94 R105	01-51101-63	RESISTOR	1%	1.1 K 1/8W	2

R96-97 R139	01-59300-63	RESISTOR 1%	93.1 ohm 1/8W	3
S1	18-00862-00	SW SP70300-0402	11SB-N W/ KNOB	1
SW1-3	18-30001-01	SWITCH SV65020	-0203-6H-01-FN	3
TH1-2	13-11003-00	THERMISTOR	TDC05D410L 100K	2
U1	07-00337-00	I.C.	KA337TU	1
U11	07-00393-01	I.C	LM393N	1
U12	07-00837-00	I.C. (SGS)	MC33079N,LM837N	1
U13	07-03525-01	I.C.	KA3525	1
U14	07-00317-00	I.C.	KA317TU	1
U2 U4 U6	07-00072-01	I.C 'ST'	TL072	3
U3 U7	07-05532-00	I.C.	NTM5532D	2
U5 U8	07-00074-01	I.C. 'ST'	TLO74	2
U9-10	07-00025-00	I.C.	4N25	2
VR1 VR5	13-00207-00	TRIM-6-VERT-500	500 ohm	2
VR2	15-40050-07	VR 50KC*4	RD097142002B	1
VR3-4	15-20203-15	VR 20KB*2	RK097122011K	2
X1	20-00158-00	TRANSFORMER	APX640.2, MB3	1