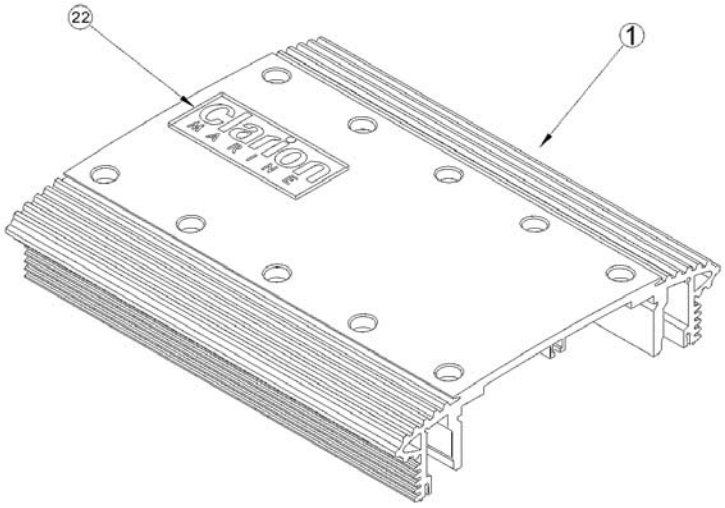
■TROUBLESHOOTING

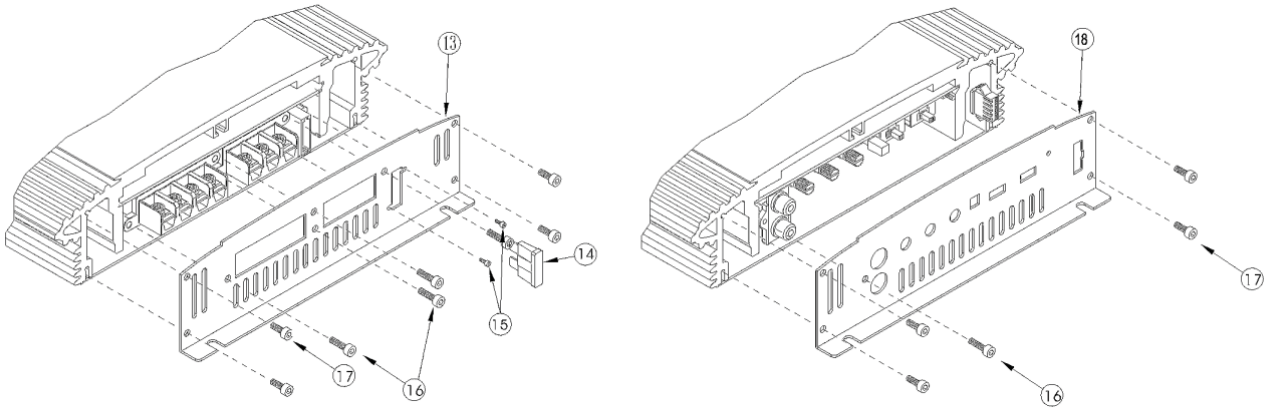
Problem	Possible Cause	Solution
No audio	Low or no turn-on voltage	Check remote connections at amplifier and main unit.
	Blown fuse	Replace with new fast-blow fuse (same rating)
	Power wires not connected	· Check Power and ground connection at amplifier · Check battery connections.
	Speakers not connected 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.
Distorted Sound	Gain controls is not set properly, or damage 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 main units power wire. · Test for weak battery or add water to battery. · Check alternator and / or voltage regulator.

■EXPLODED VIEW / PART LIST:

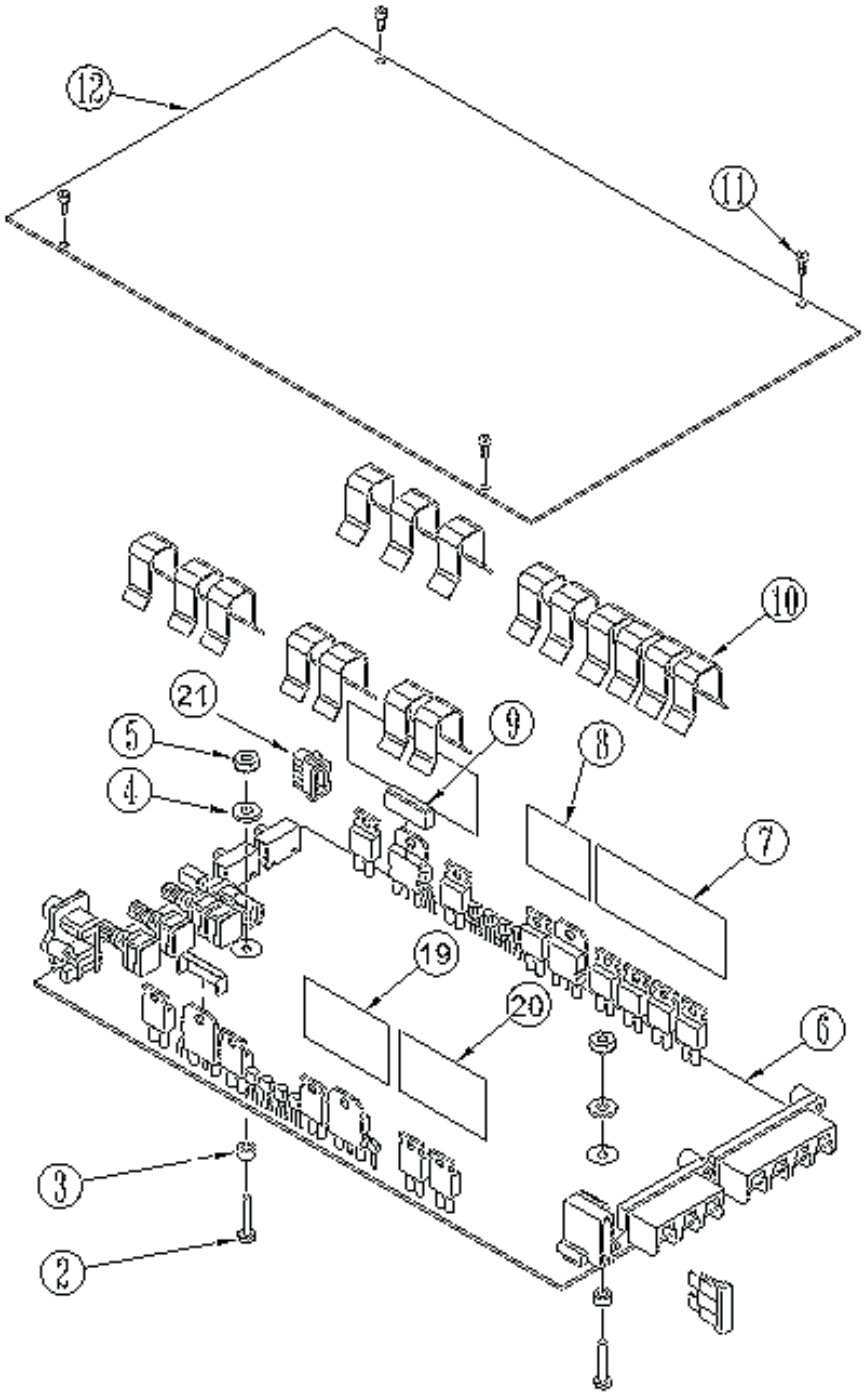
TOP VIEW



SIDE VIEW



BOTTOM VIEW



REF	PART NO	DESCRIPTION	Q'TY
1	77-00294-00	HEAT SINK	1
2-5	YH-00007-00	SCREW A+B+C+D	2
6	78-00284-00	SILICON TUBE 2*6mm	8
6	78-00292-00	SILICON TUBE 2*8mm	24
6	78-00348-00	SILICON TUBE 1*8mm	24
6	11-00600-00	P.C.B.	1
7	78-00310-00	KAPTON 25*65mm	1
8	78-00305-00	MICA 25*30mm	2
9	74-00165-00	A06 CLIP	2
10	74-00153-00	CLIP	16
11	ST-RP230-08	SCREW RP 3*8	4
12	78-00296-00	SPONGE 10*20mm	8

REF	PART NO	DESCRIPTION	Q'TY
12	72-00397-00	BOTTOM COVER	1
13	71-00575-00	REAR PANEL	1
14	76-00224-00	FUSE ATU-30A	1
15	ST-RP120-08	SCREW RP 2*8mm	2
16	ST-IH130-12	SCREW 3*12	5
17	ST-IH130-08	SCREW 3*8	8
18	71-00574-00	FRONT PANEL	1
19	78-00306-00	MICA 25*40mm	3
20	78-00307-00	MICA25*50mm	2
21	34-00150-03	5P CABLE	1
22	75-00002-MM	CLARION MARINE BADGE	1

■ELECTRICAL PART LIST:

MAIN PWB SECTION

Ref. no	PARTNO	DES	SPEC	Q'ty
C1 C3 C4 C5 C8 C9 C10 C14 C15 C16 C20 C29 C30 C45 C46 C51 C52 C53 C54 C55 C56 C62 C64 C71 C72 C73 C75 C76 C77 C82 C84 C87 C91	03-21040-04	POLY CAP	104J	33
C11 C86	03-21020-04	POLY CAP	102J	2
C12 C13 C26 C27	03-25630-04	POLY CAP	563J	4
C17 C18 C21 C22	03-25620-04	POLY CAP	562J	4
C19 C37	02-21003-41	E/C.16*26 L ESR	1000uf/50V 105C	2
C2 C89	02-24701-21	ELE. CAPACITOR	47uF/16V	2
C25	03-24720-04	POLY CAP	472J	1
C28 C57	02-21002-00	ELE. CAP -NP-	100uf/16V	2
C33 C34 C58 C65 C67 C68 C90 C92 C93	02-21001-41	ELE. CAPACITOR	10uf/50V	9
C35 C50	03-26820-04	POLY CAP	682J	2
C36 C44	04-20100-02	CERAMIC -NPO-	10P/J 50V	2
C38	02-21000-41	ELE. CAPACITOR	1uf/50V	1
C39 C40 C60 C61 C88 C94	04-20330-02	CERAMIC -NPO-	33P/J 100V	6
C41	03-24730-04	POLY CAP	473J	1
C42 C70	03-22720-04	POLY CAP	272J	2
C43 C59 C66 C69	03-24740-04	POLY CAP	474J	4
C47 C48	02-24702-21	ELE. CAPACITOR	470uf/16V	2
C49	02-26803-21	ELE. CAPACITOR	6800uf/16V ESR	1
C6 C23 C24 C31 C32 C78 C79 C83	04-20680-02	CERAMIC -NPO-	68P/J 50V	8
C7 C85	03-21510-05	CAPACITOR	151P/K	2
C74 C80 C81	03-21030-04	POLY CAP	103J	3
D1 D2 D3 D4	09-40008-00	RECT ULTRAFAST	FES8DT,MUR820	4
D14	09-15401-01	DIODE	IN5402 3A/200V	1
D5 D6 D7 D8 D11 D12 D13 D15 D16 D19 D20	09-14148-01	DIODE 1N4148	DO-35 50mA 100V	11
D9 D10 D17 D18	09-14934-00	DIODE FAST 100V	1N4934,1N4734	4
DZ1	09-20100-03	ZENER DIODE	HZ11-2TA 10V	1
DZ2	09-20120-03	ZENER DIODE	1N759A 12V 1/2W	1
DZ3 DZ4	09-20160-03	ZENER DIODE	HZ16-2TA 16V	2
DZ5 DZ6	09-00510-00	ZENER DIODE	1N5262B 51V	2
FH1	76-00239-00	FUSE HOLD	JEF-703E	1
J1	32-00638-00	4P TERMINAL	JSZ4-01	1
J2	32-00637-00	3P TERMINAL	JSZ3-01	1
J3	32-20223-04	RCA JACK 2P 上紅	WSP-202V-06	1
L1 L2	20-00107-00	COIL (17 1/2)	SMALL ZIBBLE	2
L3	01-00060-00	Jumper	2mm*19mm	1
LED1	19-00302-04	LED Blue -DOT-	SB434C	1
M1 M2	08-50N06-00	FET	FQP50N06	2
Q1 Q24	08-00035-00	TRANSISTOR 'ST'	TIP35C	2
Q2 Q6 Q7 Q11 Q14 Q15 Q18 Q19 Q23 Q28 Q29	08-10006-01	T.R	MPSA06	11
Q20	08-26715-00	TRANSISTOR	2N6715 2A 50V	1
Q25 Q3	08-00031-00	TRANSISTOR	TIP31C	2
Q30 Q8	08-00032-00	TRANSISTOR	TIP32C	2
Q31 Q9	08-00036-00	TRANSISTOR 'ST'	TIP36C	2
Q4 Q5 Q10 Q12 Q13 Q16 Q17 Q21 Q22 Q26 Q27	08-10056-01	T.R	MPSA56	11
R1 R36 R64 R165	01-53420-63	RESISTOR 1%	3.48 K 1/8W	4
R10 R28 R39 R122 R147	01-58220-63	RESISTOR 1%	8.25 K 1/8W	5
R106 R109	01-57510-63	RESISTOR 1%	750 ohm 1/8W	2
R110	01-54700-63	RESISTOR 1%	47.5 ohm 1/8W	1
R112	01-59320-63	RESISTOR 1%	9.31 K 1/8W	1
R113 R137	01-52440-63	RESISTOR 1%	243 K 1/8W	2
R115 R60	01-53910-43	RESISTOR 1%	392 ohm 1/4W	2
R117 R118	01-52130-63	RESISTOR 1%	21 K 1/8W	2
R120	01-54740-63	RESISTOR 1%	475 K 1/8W	1
R134 R135	01-55910-63	RESISTOR 1%	590 ohm 1/8W	2

R142	01-55120-63	RESISTOR 1%	5.11 K 1/8W	1
R143	01-52702-63	RESISTOR 1%	27.4 K 1/8W	1
R150 R31	01-55618-63	RESISTOR 1%	56.2 ohm 1/8W	2
R159 R170	01-52230-63	RESISTOR 1%	22.1 K 1/8W	2
R160 R163	01-51000-63	RESISTOR 1%	10 ohm 1/8W	2
R161 R164	01-53330-63	RESISTOR 1%	33.2 K 1/8W	2
R19 R66 R144	01-52120-63	RESISTOR 1%	2.15 K 1/8W	3
R2 R171	01-52710-63	RESISTOR 1%	274 ohm 1/8W	2
R20 R145	01-59000-63	RESISTOR 1%	909 ohm 1/8W	2
R21 R23 R25 R41 R44 R46 R49 R67 R82 R123 R125 R128 R130 R146 R153 R155 R172 R173 R174 R175	01-52206-63	RESISTOR 1%	22.1 ohm 1/8W	20
R22 R26 R152 R156	01-54710-63	RESISTOR 1%	475 ohm 1/8W	4
R24 R29 R149 R154	01-56320-63	RESISTOR 1%	6.34 K 1/8W	4
R3 R4 R5 R6 R76 R93 R95 R166 R167 R168 R169	01-51010-63	RESISTOR 1%	100 ohm 1/8W	11
R30 R100 R105 R148	01-59300-63	RESISTOR 1%	93.1 ohm 1/8W	4
R33 R34 R35 R37 R43 R38 R50 R52 R56 R59 R65 R94 R104 R126 R131	01-52020-63	RESISTOR 1%	2 K 1/8W	15
R38 R80 R119	01-51420-63	RESISTOR 1%	1.43 K 1/8W	3
R40 R45 R124 R129	01-56800-63	RESISTOR 1%	681 ohm 1/8W	4
R42 R47 R61 R98 R114 R116 R127 R132	01-51020-63	RESISTOR 1%	1 K 1/8W	8
R51	01-13000-22	RESISTOR -MO-	30 ohm 1/2W	1
R54	01-51538-63	RESISTOR 1%	15.8 K 1/8W	1
R55 R63 R81 R85 R86 R103 R121 R157	01-51030-63	RESISTOR 1%	10 K 1/8W	8
R58 R62	01-12750-63	RESISTOR	2.7 M 1/8W	2
R7 R14 R158 R162	01-10001-22	RESISTOR -MO-	0.1 ohm 1/2W	4
R70	01-53120-22	RESISTOR 1%	3.16 K 1/2W	1
R71 R72 R107 R108 R141 R176 R177	01-52030-63	RESISTOR 1%	20 K 1/8W	7
R77 R133	01-54730-63	RESISTOR 1%	47.5 K 1/8W	2
R8 R11 R27 R32 R89 R99	01-55001-43	RESISTOR 1%	5.1 ohm 1/4W	6
R83	01-54340-63	RESISTOR 1%	432 K 1/8W	1
R84	01-53340-63	RESISTOR 1%	332 K 1/8W	1
R87 R88 R101 R102 R138 R139	01-51830-63	RESISTOR 1%	18.2 K 1/8W	6
R9 R13 R15 R16 R17 R18 R53 R57 R68 R69 R73 R74 R75 R78 R79	01-54720-63	RESISTOR 1%	4.75 K 1/8W	16
R90	01-54710-43	RESISTOR 1%	475 ohm 1/4W	1
R92	01-52200-63	RESISTOR 1%	221 ohm 1/8W	1
R96 R111	01-51101-63	RESISTOR 1%	1.1 K 1/8W	2
S1	18-00862-00	SW SP70300-0402	11SB-N	1
SW1 SW2	18-30001-01	SWITCH SV65020	-0203-6H-01-FN	2
TH1 TH2	13-11003-00	THERMISTOR	TDC05D410L 100K	2
U12	07-03525-01	I.C. 'FSC'	KA3525A	1
U13	07-00837-00	I.C. 'ON'	MC33079N,LM837N	1
U14	07-00317-00	I.C. 'FSC'	KA317TU	1
U14	07-00337-00	I.C. 'FSC'	KA337TU	1
U2 U4 U9	07-00072-01	I.C 'ST'	TL072CN	3
U3 U8	07-05532-00	I.C.	NJM5532DD	2
U5 U10	07-00074-01	I.C. 'ST'	TLO74CN	2
U6	07-00393-01	I.C	LM393N	1
U7 U11	07-00035-00	I.C.	4N35 LITEON	2
VR1 VR5	13-00207-00	TRIM-6-VERT-500	500 ohm	2
VR2	15-40050-05	VR C50K*4	RK097142001E	1
VR3 VR4	15-20203-15	VR 20KB*2	RK097122011K	2
X1	20-00145-00	TRANSFORMER	APA2160	1