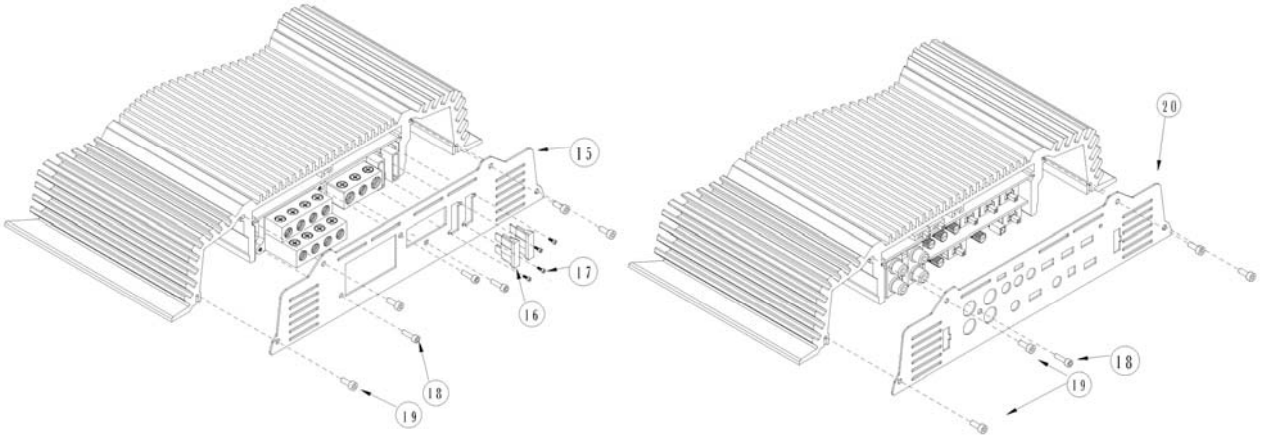
■TROUBLESHOOTING

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

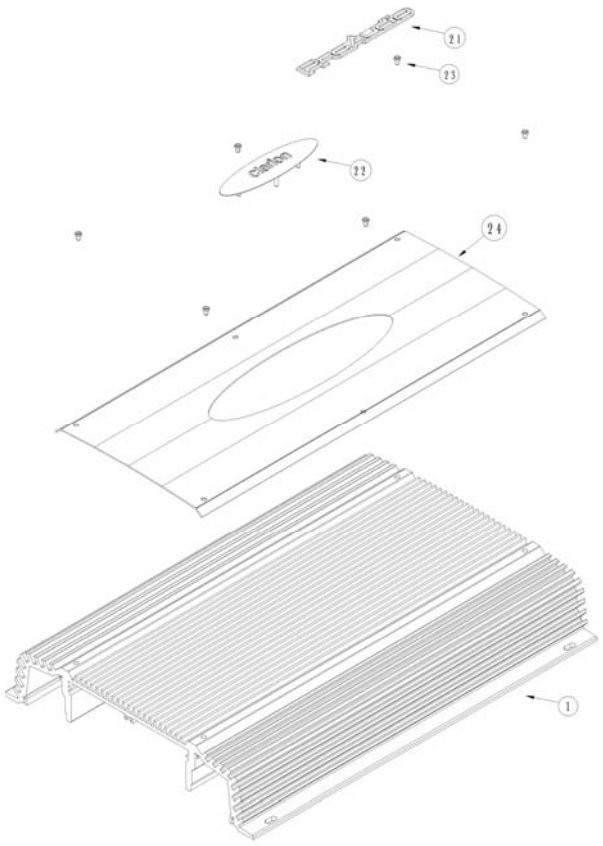
■EXPLODED VIEW / PARTS LIST:

REF.	PART NO	DESCRIPTION	SPECIFICATION
1	77-00293-00	HEAT SINK	BLACK 381.1
2	YH-00007-00	BOARD FIX SCREW	A+B+C+D
3	34-00150-04	INPUT CONNECTOR	140mm
4	78-00284-00	SILICON TUBE	2mm*6mm
4	78-00292-00	SILICON TUBE	2mm*8mm
5	11-00595-00	P.C.B.	APX 640.4 VR PCB
6	11-00594-00	P.C.B.	APX640.4 MAIN PCB
7	78-00310-00	KAPTON	25mm*65mm
8	78-00305-00	MICA	25*30mm
8	78-00306-00	MICA	25*40mm
8	78-00307-00	MICA	25*50mm
9	74-00165-00	A06 CLIP	少 0.5mm
10	74-00153-00	CLIP	BLACK
11	ST-RP430-06	SCREW	3*6 R-HEAD BLACK
12	72-00396-00	BOTTOM PLATE	385.5MM
12	78-00296-00	SPONGE PAD	10*20mm, 3mm
13	SM-RP230-06	SCREW	3*6 R-HEAD
14	74-00154-00	COPPER POST	16mm
15	71-00573-00	REAR PANNEL	APX640.4 BLACK
16	76-00279-00	FUSE	ATC-25A
17	ST-RP420-08	SCREW	2*8 R-HEAD BLACK
18	ST-IH430-12	SCREW	3*12 HEX BLACK
19	ST-IH430-08	SCREW	3*8 HEX BLACK
20	71-00572-00	FRONT PANNEL	APX640.4 BLACK
21	75-00178-00	BADGE	PROAUDIO
22	75-00021-00	BADGE	CLARION
23	ST-IH430-05	SCREW	3*5 HEX BLACK
24	72-00395-00	TOP PLATE	

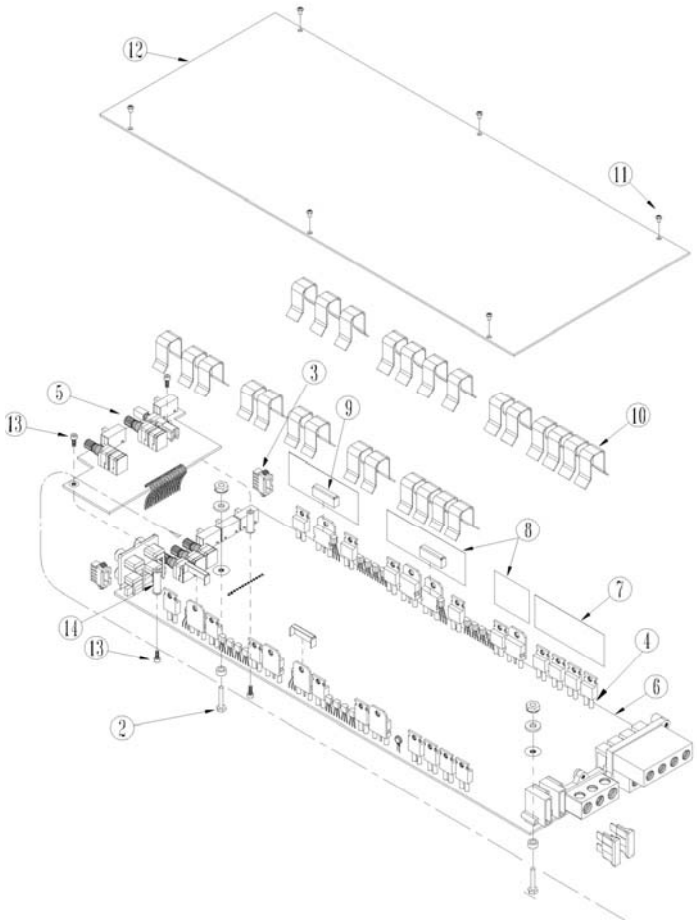
■Side View



■Top View



■Bottom View



■ELECTRICAL PART LIST:

MAIN PWB SECTION

REF. NO	PART NO	DESCRIPTION	SPECIFICATION
C1 C3-4 C7 C10 C12 C22-24 C26-32 C40 C47 C49-50 C52 C54-55 C59 C72 C76-78 C80-84 C86 C90-92 C98 C108 C110 C113 C118	03-21040-04	POLY CAP	104J 0.1u 50V
C11 C18 C100 C105	04-20100-02	CERAMIC -NPO-	10P/J 50V
C13-14 C34-35 C66-67 C89 C94-95 C106 C111 C119	04-20330-02	CERAMIC -NPO-	33P/J 100V
C19 C42 C51 C93	03-24740-04	POLY CAP	474J
C2 C117	02-24701-21	ELE. CAPACITOR	47uF/16V
C20 C25 C75 C87	02-21002-00	ELE. CAP -NP-	100uf/16V
C21 C39 C85	03-21030-04	POLY CAP	103J 10N 50V
C33 C36 C68 C69	03-21020-04	POLY CAP	102J 1N 50V
C37-38 C56-57	02-21003-41	E/C.16*32 L ESR	1000uf/50V 105C
C41	03-24720-04	POLY CAP	472J
C45	03-24730-04	POLY CAP	473J
C46 C58	03-26820-04	POLY CAP	682J
C5-6 C43-44 R48 C60-62 C88 C96 C102 C104 C114-116	02-21001-41	ELE. CAPACITOR	10uf/50V
C64-65	02-23303-31	E/C. Low ESR	3300uf/25V 105C
C70-71	02-24702-21	ELE. CAPACITOR	470uf/16V
C73	02-21000-41	ELE. CAPACITOR	1uf/50V
C79 C101	03-22720-04	POLY CAP	272J
C8 C15 C64 C74 C97 C103 C107 C112	04-20680-02	CERAMIC -NPO-	68P/J 50V
C9 C16 C99 C109	04-21500-02	CERAMIC -NPO-	150P/J 50V
D14 R16 R24-25	09-14934-00	DIODE FAST 100V	1N4934,1N4734
D1-D4	09-40008-00	RECT ULTRAFAST	FES8DT,MUR820
D26	09-15401-01	DIODE	IN5402 3A/200V
D5-13 D15 D17-23 D27-28	09-14148-01	DIODE 1N4148	DO-35 50mA 100V
DZ1	09-20100-03	ZENER DIODE	HZ11-2TA 10V
DZ2 DZ4	09-20160-03	ZENER DIODE	HZ16-2TA 16V
DZ3	09-20120-03	ZENER DIODE	1N759A 12V 1/2W

DZ5 -6	09-00510-00	ZENER DIODE	1N5262B 51V
FH1 -2	76-00239-00	FUSE HOLD	JEF-703E
J1	32-00656-00	TERMINAL	SLL-KOR-4P*2
J2	26-00348-00	CABLE	13PIN 60mm 3*3
J3	32-00655-00	TERMINAL	SL-KOR-3P
J4	32-20425-03	RCA JACK 4P RL-	1418-4G
L1-4	20-00107-00	COIL	SMALL ZIBBLE
LED2	19-00302-04	LED BLUE -DOT-	SB434C
M1-M4	08-50N06-00	FET	FQP50N06
Q1 Q10 Q43 Q52	08-00035-00	TRANSISTOR	TIP35C
Q18 Q18 Q50 Q59	08-00036-00	TRANSISTOR	TIP36C
Q2 Q6-7 Q11 Q15-16 Q23-24 Q27-29 Q32-33 Q36-37 Q42 Q47-48 Q51 Q56-57	08-10006-01	T.R	MPSA06
Q3 Q12 Q44 Q53	08-00031-00	TRANSISTOR	TIP31C
Q40	08-26715-00	TRANSISTOR	2N6715 2A 50V
Q4-5 Q13-14 Q19-22 Q25-26 Q30-31 Q34-35 Q38-39 Q41 Q45-46 Q54-55	08-10056-01	T.R	MPSA56
Q8 Q17 149 Q58	08-00032-00	TRANSISTOR	TIP32C
Q9	08-00036-00	TRANSISTOR	TIP36C
R1 R241	01-52710-63	RESISTOR 1%	274 ohm 1/8W
R10 R237	01-53420-63	RESISTOR 1%	3.48 K 1/8W
R104	01-13000-22	RESISTOR -MO-	30 ohm 1/2W
R11 R16 R36 R53 R90 R94 R116 R121 R142 R146	01-55001-43	RESISTOR 1%	5.1 ohm 1/4W
R110	01-52200-63	RESISTOR 1%	221 ohm 1/8W
R113 R154 R201 R264	01-55620-85	RESISTOR SMT	5.62 K 0805
R115 R127 R136 R147 R151 R204 R213-214	01-51030-63	RESISTOR 1%	10 K 1/8W
R120	01-53120-22	RESISTOR 1%	3.16 K 1/2W
R12-13 R15 R19 R22 R25-26 R37-38 R106-109 R119 R123 R130 R132 R186	01-54720-63	RESISTOR 1%	4.75 K 1/8W
R122 R256-258 R260 R262 R265-2266	01-56800-85	RESISTOR SMT	681 ohm 0805
R124 R133-134 R230-231	01-51538-63	RESISTOR 1%	15.8 K 1/8W
R125	01-54710-43	RESISTOR 1%	475 ohm 1/4W
R126	01-53340-63	RESISTOR 1%	332 K 1/8W
R128	01-54340-63	RESISTOR 1%	432 K 1/8W
R131	01-54730-63	RESISTOR 1%	47.5 K 1/8W
R138 R227 R259 R269	01-56820-85	RESISTOR SMT	6.81 K 0805
R14 R20 R42 R57 R64 R79 R155 R174 R199 R208	01-58220-63	RESISTOR 1%	8.25 K 1/8W
R149	01-51420-63	RESISTOR 1%	1.43 K 1/8W
R166 R205	01-12750-63	RESISTOR	2.7 M 1/8W
R170	01-59320-63	RESISTOR 1%	9.31 K 1/8W
R171	01-54700-63	RESISTOR 1%	47.5 ohm 1/8W
R17-18 R24 R27 R212 R215 R222 R224	01-10001-22	RESISTOR -MO-	0.1 ohm 1/2W
R187 R206 R226 R240	01-52230-63	RESISTOR 1%	22.1 K 1/8W
R190 R200 R232 R236	01-56830-63	RESISTOR 1%	68.1 K 1/8W
R223 R225	01-51000-63	RESISTOR 1%	10 ohm 1/8W
R228	01-54740-63	RESISTOR 1%	475 K 1/8W
R229	01-55120-63	RESISTOR 1%	5.11 K 1/8W
R23 R118 R129 R202	01-53910-43	RESISTOR 1%	392 ohm 1/4W
R252	01-52430-63	RESISTOR 1%	24.3 K 1/8W
R253	01-51040-63	RESISTOR 1%	100 K 1/8W
R261 R263 R267 R268	01-53020-85	RESISTOR SMT	3.01 K 0805
R28 R31-32 R35 R49-50 R66 R69 R71 R74 R81 R84 R86 R89 R114 R153 R156 R158 R161 R163 R175 R177 R180 R182 R193 R195-196 R216 R218-219 R234-235 R238-239 R250-251	01-52206-63	RESISTOR 1%	22.1 ohm 1/8W
R29 R46 R188 R207	01-59000-63	RESISTOR 1%	909 ohm 1/8W
R2-9 R62-63 R137 R242-249	01-51010-63	RESISTOR 1%	100 ohm 1/8W
R30 R34 R48 R52 R194 R198 R217 R221	01-54710-63	RESISTOR 1%	475 ohm 1/8W
R33 R43 R51 R58 R167 R197 R210 R226	01-56320-63	RESISTOR 1%	6.34 K 1/8W
R39-40 R100-101 R139-140 R191-192 R233 R254-255	01-52030-63	RESISTOR 1%	20 K 1/8W
R41 R47 5150 R185 R203	01-52120-63	RESISTOR 1%	2.15 K 1/8W
R44 R60 R168 R209	01-58200-63	RESISTOR 1%	82.5 ohm 1/8W
R45 R59 R169 R211	01-55618-63	RESISTOR 1%	56.2 ohm 1/8W
R54 R105	01-57510-63	RESISTOR 1%	750 ohm 1/8W
R55-56 R91-92 R143-144 R172-173	01-51430-63	RESISTOR 1%	14 K 1/8W
R61 R103	01-59300-63	RESISTOR 1%	93.1 ohm 1/8W
R65 R70 R80 R157 R162 R176 R181	01-56800-63	RESISTOR 1%	681 ohm 1/8W
R67 R72 R76 R82 R87 R99 R111 R117 R145 R152 R160 R165 R179 R184	01-51020-63	RESISTOR 1%	1 K 1/8W
R68 R73 R83 R88 R93 R102 R141 R148 R159 R164 R178 R183 R189	01-52020-63	RESISTOR 1%	2 K 1/8W
R75 R97	01-51830-63	RESISTOR 1%	18.2 K 1/8W
R78 R96	01-51101-63	RESISTOR 1%	1.1 K 1/8W
R98 R112	01-52440-63	RESISTOR 1%	243 K 1/8W
SW1-5	18-30001-01	SWITCH SV65020	-0203-6H-01-FN

TH1-2	13-11003-00	THERMISTOR	TDC05D410L 100K
U1 U15	07-00317-00	I.C.	KA317TU
U13	07-00393-01	I.C	LM393N
U14	07-03525-01	I.C.	KA3525
U2 U5 U11	07-00072-01	I.C 'ST'	TL072
U3 U7-8	07-05532-00	I.C.	NTM5532D
U4	07-00074-01	I.C. 'ST'	TLO74
U6 U10	07-00035-00	I.C.	4N25
U9 U12	07-00837-00	I.C. (SGS)	MC33079N,LM837N
VR1-2 VR6-7	13-00207-00	TRIM-6-VERT-500	500 ohm
VR3-5	15-20203-15	VR 20KB*2	RK097122011K
X1	20-00159-00	TRANSFORMER	APX640.4

Cross-over Section

REF. NO	PART NO	DESCRIPTION	SPECIFICATION
C1	03-25630-04	POLY CAP	563J
C11-14	04-20680-02	CERAMIC -NPO-	68P/J 50V
C15	03-25630-08	POLY CAP	567J
C16	03-25630-09	POLY CAP	568J
C17	03-25630-10	POLY CAP	569J
C18	03-25630-11	POLY CAP	570J
C3	03-25630-05	POLY CAP	564J
C4 C6 C8 C20	03-25620-04	POLY CAP	562J
C5	03-25630-06	POLY CAP	565J
C7	03-25630-07	POLY CAP	566J
C9-10 C19-20	03-21040-04	POLY CAP	104J 0.1u 50V
R13-20	01-54720-63	RESISTOR 1%	4.75 K 1/8W
R1-4 R710 R21-26 R31-32	01-52020-63	RESISTOR 1%	2 K 1/8W
R5 R11 R27-28	01-51420-63	RESISTOR 1%	1.43 K 1/8W
R6 R12 R29 R30	01-53420-63	RESISTOR 1%	3.48 K 1/8W
S1	18-00862-00	SW SP70300-0402	11SB-N w/ KONB
SW1-2	18-00863-00	SWITCH	2P3T EG2315A
U1 U4	07-00072-01	I.C 'ST'	TL072
U2-3	07-00074-01	I.C. 'ST'	TLO74
VR1-2 VR6-7	15-40050-07	VR 50KC*4 41-SEC	RD097142002B