NOTES:

1. FASTENER SHALL HAVE ZINC DICHROMATE FINISH.
2. FASTENERS USED TO SECURE FAN MOUNT (DWG 826119CG) TO ENGINE.
3. PRIME ALL STEEL SURFACES WITH RUSTOLEUM 1573 PRIMER. TOPCOAT ALL STEEL SURFACES WITH RUSTOLEUM 7686 GREY ENAMAL. ALL ALUMINUM SURFACES TO REMAIN UNPAINTED.

FIND NO.	QTY REQD	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL OR NOTE
189	AR			1 375" 12 GA SHEET	316 SS
188	1	01276	700729-30	HOSE CLAMP 2 1/2"	
187	1	01276	700729-12	HOSE CLAMP 1 3/4"	
186	1	01276	700729-10	HOSE CLAMP 1 1/2"	
185	1	01276	700729-23	HOSE CLAMP 1"	
184	2	35708	620-016	HOSE CLAMP	SS
183	1	OMWHO	826011CG	RESERVOIR FRAME ASSEMBLY	
182	1		-23	1/4" NPT COUPLING	
181	6		1/2-13 X 1.50	HEX HEAD CAP SCREW GR8	△1
180	4		7/16	7/16 LOCKWASHER, HIGH COLLAR	SS
179	1		5/16-18 X 2	HEX HEAD CAP SCREW	SS
178	1	OMWHO	826114CG	SUPPORT, RADIATOR LEFT	
177	AR			3" ROUND STOCK	6061-T6
176	2		M8 X 1.25 X 30MM	HEX HEAD CAP SCREW	△2
175	2		M8 X 1.25 X 25MM	HEX HEAD CAP SCREW	△2
174	1		M8 X 1.25 75MM	HEX HEAD CAP SCREW	△2
173	1		M8 X 1.25 X 20MM	HEX HEAD CAP SCREW	△2
172	AR			2" X 3" X 1/4" ANGLE	6061-T6
171	AR			1" X 2" FLAT BAR	6061-T6
170	AR			2 1/2" O.D. TUBE	STEEL
169	AR			1/2" RUBBER	
168	AR			1/2" X 4" FLAT BAR	6061-T6
167	AR			1/2" X 3" FLAT BAR	6061-T6
166	AR			1/2" X 8" FLAT BAR	6061-T6
165	AR			4" X 4" X 1/2" ANGLE	6061-T6
164	AR			1/4" PLATE	6061-T6
163	AR			1" WIDE 12 GA SHEET	316 SS
162	AR			1" THICK RUBBER	
161	AR			4" X 1" FLAT BAR	6061-T6
160	1	OMWHO	826013CG	CROSS MEMBER, REAR AIR CLEANER	
159	1	OMWHO	826012CG	CROSS MEMBER, FRONT AIR CLEANER	
158	1	OMWHO	-22	MOUNT, RETURN FILTER	
157	1	OMWHO	-21	BRACKET, CHARGE RESERVOIR	
156	1	OMWHO	-20	BRACKET, QUICK DISCONNECT	
155	1	OMWHO	826110CG	MOUNT. RADIATOR LOWER	
154	1	OMWHO	-19	BRACKET, UPPER HANDLE STORAGE	
153	1	5P720	494 D 4001	BLANKET, TURBO	
152	4	35708	92040	CLAMP, HOSE	SS
151	1	OMWHO	826119CG	FAN MOUNT ASSEMBLY	
150	2	OMWHO	-17	SHOCK, RADIATOR SUPPORT	
149	1	OMWHO	826115CG	SUPPORT, RADIATOR RIGHT	
148	1	OMWHO	-16	SHOCK, FRONT ENGINE MOUNT	
147	2	OMWHO	-15	SPACER, FRONT ENGINE MOUNT	
146	2	OMWHO	-14	SHOCK, REAR ENGINE MOUNT	
145	4	OMWHO	-13	SPACER, REAR ENGINE MOUNT	
144	1	OMWHO	-12	ADJUSTING PLATE, CHARGE PUMP	
143	1	OMWHO	-11	MOUNTING PLATE, CHARGE PUMP	
142	1		1/2-13 X 4.00	HEX HEAD CAP SCREW	SS
141	1		1/2-13 X 5.00	HEX HEAD CAP SCREW	SS
140	4		3/8-16 X 3.50	HEX HEAD CAP SCREW	SS
139	2		1/2-13 X 1.5	HEX HEAD CAP SCREW	SS
138	2		10-32	SELF LOCKING NUT	SS
137	4		10-32	FLAT WASHER	SS
136	2		10-32 X .625	HEX HEAD CAP SCREW	SS
135	2		1/4-20 X 2.00	HEX HEAD CAP SCREW	SS
134	2		M16	LOCK WASHER	SS
133	4		M10	LOCK WASHER	SS
132	2		M10 X 1.5 X 20MM	HEX HEAD CAP SCREW	SS
131	3		1/4-20 X 1.00	HEX HEAD CAP SCREW	SS
130	3	6K495	3225T28	CLAMP, LOOP	SS
129	1	OMWHO	-10	BRACKET, ACCUMULATOR FILTER	
128	6		3/8-16 X 1.00	HEX HEAD CAP SCREW	SS
127	1	OMWHO	-9	BRACKET, UPPER EXHAUST STACK	
126	1	OMWHO	-8	BRACKET, LOWER EXHAUST STACK	
125	4		3/8-16 X 1.00	ALLEN HEAD COUNTERSUNK SCREW	SS
124	4		1/2	LOCK WASHER, SOCKET HEAD CAP SCREW	SS
123	2		1/4-20 X 2.25	THREADED STUD	SS
122	2		M10 X 1.5 X 25MM	HEX HEAD CAP SCREW	SS
121	2		1/4-20 X 1.25	HEX HEAD CAP SCREW	SS
120	2	6K495	92001A029	WING NUT	
119	1	73181	HA200610	HANDLE	
118	2	OMWHO	-7	EXHAUST EXTENSION MOUNTING STRAP	
117	1	OMWHO	-6	FLOW CONTROL BRACKET	
116	1	5E240	2706-04-06	BULKHEAD CONNECTOR	
115	1	5E240	5000-4-4	FEMALE COUPLING	
114	2	78357	VHN-4-4M	QUICK DISCONNECT	
113	1	5E240	2706-06-06	BULKHEAD CONNECTOR	
112	1	5E240	5000-6-4	FEMALE REDUCING COUPLING	
111					
110	1	OMWHO	826116CG	AIR INTAKE TUBE BRACKET	SS
109	1	6K495	3066T35	CLAMP, U-BOLT	
108	1	OMWHO	-5	TURBO TUBE BRACKET	
107	2		M16 X 2 X 40MM	HEX HEAD CAP SCREW	SS
106	1	OMWHO	-4	HIGH PRESSURE FILTER MOUNTING STRAP	SS
105	2	OMWHO	-3	FLOW METER MOUNTING STRAP	SS
104	1		3/8-16 X 4	HEX HEAD CAP SCREW	SS
103	2	OMWHO	-2	ACCUMULATOR PAD	
102	2	OMWHO	-1	ACCUMULATOR SPACER	
101	1	OMWHO	826118CG	HIGH PRESSURE FILTER MOUNTING BRACKET	
100	1	OMWHO	826117CG	CHARGE FILTER MOUNTING BRACKET	
99	2	35708	92016	HOSE CLAMP	
98	1	16632	5521-100	1" HEATER HOSE, 40" LONG	
97	1	7Y355	16BI-16M	1" MALE PIPE HOSE BARB	
96	1	6K495	4638K135	1" 90 DEGREE ELBOW	
95	1	6K495	4638K662	1" X 3/4" BUSHING	
94	1	6K495	4549K591	3/4" CLOSE PIPE NIPPLE	
93	1	73002	5060705	BELT. POLY COG	
92	18		3/8	LOCK WASHER GR 8	
91	16		3/8 X 16 X 1.50	HEX HEAD CAP SCREW GR 8	
90	30		1/4	LOCK WASHER	SS
89	20		1/4-20 X .75	HEX HEAD CAP SCREW	SS
88	5		5/16-18	SELF LOCKING NUT	SS
87	6		5/16	FLAT WASHER	SS
86	4		5/16-18 X 2.50	HEX HEAD CAP SCREW	SS
85	4		1/2-13 X 2.00	SOCKET HEAD CAP SCREW	SS
84	8		1/2	LOCK WASHER GR 8	
83	8		1/2	FLAT WASHER GR 8	
82	4		1/2-13 X 3.00	HEX HEAD CAP SCREW	SS
81	4		7/16-14 X 2.00	SOCKET HEAD CAP SCREW	SS
80	4		7/16	LOCK WASHER GR 8	△1
79	4		7/16-14 X 1.75	HEX HEAD CAP SCREW GR 8	△1
78	1	80941	B-26	V-BELT	
77	3	6A844	BS-60	SHEAVE	
76	2		1/2-13	SELF LOCKING NUT	SS
75	2		1/2	FLAT WASHER	SS
74	2		1/2-13 X 2.00	HEX HEAD CAP SCREW	SS
73	12		1/4-20	SELF LOCKING NUT	SS
72	22		1/4	FLAT WASHER	SS
71	6		1/4-20 X 3.00	HEX HEAD CAP SCREW	SS
70	8		M12	LOCK WASHER	SS
69	4		M12 X 1.75 X 40MM	HEX HEAD CAP SCREW	SS
68	4		M12 X 1.75 X 65MM	HEX HEAD CAP SCREW	SS
67	20		3/8	LOCK WASHER	SS
66	3		1/2-13 X 1.75	HEX HEAD CAP SCREW. GR 8	△1
65	8		3/4-10	NUT. GR 8	△1
64	8		3/4	FLAT WASHER, GR 8	△1
63	8		3/4	LOCK WASHER, GR 8	△1
62	6		3/4-10 X 4.50	HEX HEAD CAP SCREW, GR 8	△1
61	2		3/4-10 X 4	HEX HEAD CAP SCREW, GR 8	△1
60	6		3/8-16 X 1.50	HEX HEAD CAP SCREW	SS
59	1	OMWHO	826090CG	LOWER RADIATOR HOSE ASSEMBLY	
58	8		3/8-16 X 3.00	HEX HEAD CAP SCREW	SS
57	27		1/2	LOCK WASHER	SS
56	16		1/2-13 X 1.50	HEX HEAD CAP SCREW	SS
55	15		3/8-16 X 1.25	HEX HEAD CAP SCREW	SS
54	13		3/8-16 X 2.00	HEX HEAD CAP SCREW	SS
53	66		3/8-16	SELF LOCKING NUT	SS
52	112		3/8	FLAT WASHER	SS
51	30		3/8-16 X 3.25	HEX HEAD CAP SCREW	SS
50	6		M8	LOCKWASHER	SS
49	6		3/8-16 X 3.75	HEX HEAD CAP SCREW GR 8	△1
48	1	0CA85	23512239	SPACER	
47	1	51377	4035-38825-11	FAN	
46	4		5/8-18	NUT, GR 8	△1
45	4		5/8	LOCKWASHER, GR 8	△1
44	4		5/8-18 X 3.00	HEX HEAD CAP SCREW, GR 8	△1
43	4	6Z091	57945	LIFTING EYE	
42	1	OMWHO	826061CG	TURBO TUBE	
41	1	OMWHO	826070CG	TACHOMETER DRIVE ASSEMBLY	
40	2	35708	92036	HOSE CLAMP	
39	1	73002	82201GL	UPPER RADIATOR HOSE	
38	1	OMWHO	826112CG	OVERSPEED MOUNTING BRACKET	
37	1	OMWHO	826113CG	FUEL SHUT OFF LEVER	
36	1	OMWHO	826111CG	SAFETY CONTROL MOUNTING BRACKET	
35	1	94607	28000002	SAFETY CONTROL W/RESET LATCH	
34	1	94607	411082U20F	SPEED VALVE	
33	1	94607	11070L003	SPEED ADAPTER 1:2	
32	1	94607	4261803AD23	INTAKE SHUTOFF VALVE	
31	1	3Y894	FFG2002T	NEEDLE VALVE, 1/4" NPT	
30	1	73181	ACB30C-7110C	3 GALLON ACCUMULATOR W/BRACKETS	
29	1	73181	FRH 300116	HIGH PRESSURE FILTER	
28	1	73181	RPA 300363C	BELT DRIVEN PUMP	
27	1	73181	HPA 300118	HAND OPERATED PUMP	
26	1	73181	CMA-3080438	HYDRAULIC STARTER	
25	1	OMWHO	826040CG	STARTING RESERVOIR ASSEMBLY	
24	1	OMWHO	826020CG	CONTROL PANEL ASSEMBLY	
23	1	OMWHO	826010CG	FRAME ASSEMBLY	
22	1	OMWHO	826100CG	BELT GUARD ASSEMBLY	
21	1	OMWHO	826050CG	EXHAUST ASSEMBLY	
20	1	OMWHO	826060CG	AIR INTAKE ASSEMBLY	
19	1	OMWHO	826080CG	FRONT ENGINE MOUNT	
18	1	OMWHO	826080CG	REAR ENGINE MOUNT ASSEMBLY, RIGHT	
17	1	OMWHO	826080CG	REAR ENGINE MOUNT ASSEMBLY, LEFT	
16	1	3Y894	NVG350B	NEEDLE VALVE	
15	1	78357	71-3C16-20EF	FEMALE DISCONNECT	
14	1	78357	71-3N16-20EF	MALE DISCONNECT	
13	1	61363	374A-2N50-SL210	HIGH PRESSURE FILTER	
12	1	61363	FAL511-10-N24/32-25-G-A	RETURN FILTER	
11	1	18265	HMK25-525C-1302N	CHARGE FILTER	
10	1	62860	55273	RADIATOR	
9	1	55724	MR-45-5-30	HYDRAULIC OIL COOLER	
8	1	2R256	800-100	FLOW METER 0-100 GPM	
7	1	69838	BV-32-S	BALL VALVE	
6	1	54035	RPKC-LDV-LAN	CHARGE PRESSURE RELIEF VALVE	
5	1	OMWHO	826030CG	HYDRAULIC RESERVOIR ASSEMBLY	
4	1	OD2A5	9621329	PRIMARY HYDRAULIC PUMP	
3	1	OD2A5	CPA-1007	CHARGE PUMP	
2	1	96105	2B102BB-YZ15655	HYDRAULIC PUMP DRIVE	
1	1	0CA85	WH3632N	ENGINE, SERIES 40, 8.7 LITER, 225 HP	

PARTS LIST

HIGHSTAR INDUSTRIAL TECHNOLOGIES
3301-A BALLARD AVENUE, PORTSMOUTH, VA 23701

U.S. COAST GUARD HEADQUARTERS
CIVIL ENGINEERING

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND DEGREES
GENERAL TOLERANCES

X DECIMAL	.XX DECIMAL	.XXX DECIMAL	ANGLE
±.06	±.03	±.010	±2°

REMOVE BURRS AND BREAK SHARP EDGES .03 MAX.
INSIDE CORNERS R. .06 MAX
SURFACE ROUGHNESS 125
FRACTIONS ±1/16

MATERIAL: N/A

DESIGNED:	L MURPHY
DRAWN.	D OLSON
TRACED.	
CHECKED	L MURPHY
REVIEWED BY	
APPROVED BY:	GARY VAN MOURIK
G-SEC	DATE
CAD FILE NO. 647-1CG	DATE. 2-10-97

MODEL 82647CG HVPU GENERAL ARRANGEMENT

SIZE F | CAGE CODE OMWHO | DRAWING NO. 82647CG | REV —

SCALE: 1"=4" | SHEET 1 OF 7 | CADD

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

DRAWING NO. 82647CG SHT 1 REV —