



High Performance Gas Engine Driven Centrifugal Pump



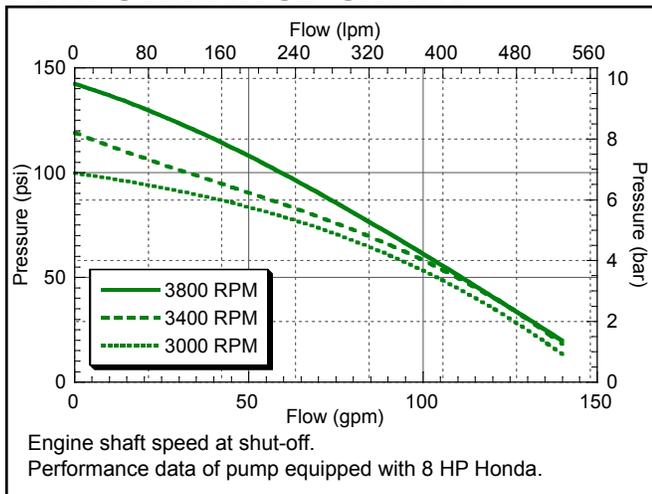
GE-860

- Suction 2" Discharge 1-1/2"
- Maximum Pressure 140 PSI and Maximum Flow 140 GPM
- Impeller attaches directly to 1" keyed shaft on these engines:
 Honda GX240(8HP) and GX270(9HP) engines with Q-type shaft
 Briggs 8HP and 10HP Intek Pro and Power Built engines with 690173 shaft
- Large vent area between pump and engine
- Optional electric start engine
- Available Complete or Less Engine

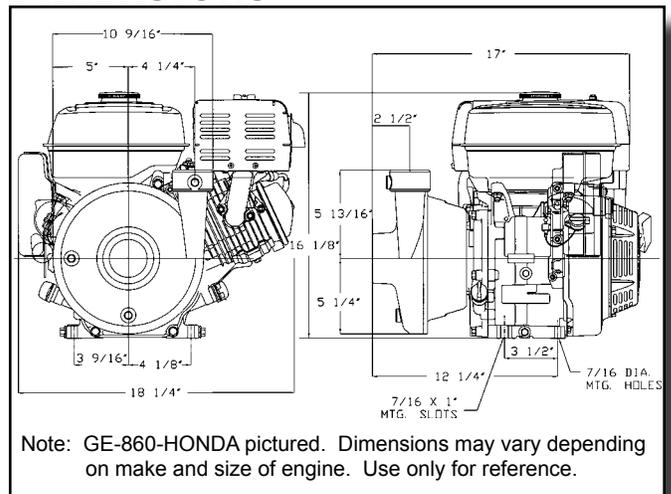
GE-860-LE	Less Engine
GE-860-HONDA	Pull start
GE-860-HONDA-ES	Electric start

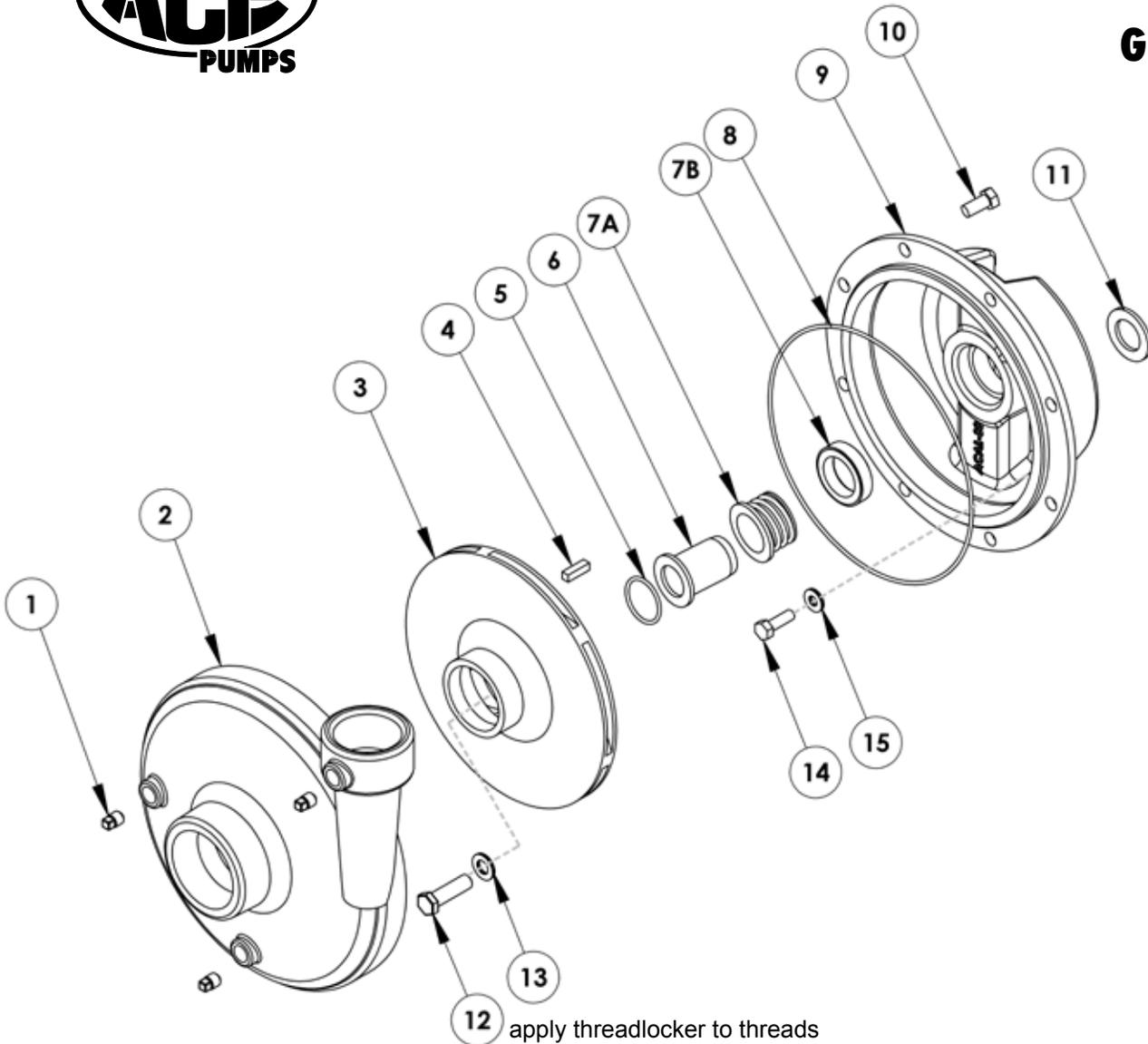
Do not use with flammable liquids.

PERFORMANCE CHART



DIMENSIONS





REF. #	PART NUMBER	EDP #	DESCRIPTION	REQ.
1	BAC-53	41110	Pipe plug, 1/8" NPT	3
1	41120	41120	Pipe plug, 1/8" NPT, stainless steel (optional)	3
2	ACAL-14	30160	Volute, 2" x 1-1/2", cast iron	1
3	ACAL-26-860	30558	Impeller, GE-860, cast iron with keyway	1
4	41083	41083	Key, 1/4" x 1/4" x 7/8"	1
5 ^①	41865	41865	"O" Ring, impeller	1
6	42108	42108	Shaft sleeve, GE-860, stainless steel	1
7 ^①	TYPE 21-1.250-V60	30267	Seal, 1.25" Type 21 mechanical seal, Viton	1
7	TYPE 21-1.250-V60-SG	30268	Seal, 1.25" Type 21, silicon graphite/Viton (optional)	1
8 ^①	ACAL-4	30009	"O" Ring gasket for ACAL-14 volute	1
9	ACAL-88	30187	Bracket, cast iron	1
10	40950	40950	Cap screw, 3/8" NC x 3/4"	8
10	40930	40930	Cap screw, 3/8" NC x 3/4", stainless steel (optional)	8
11	GE-54	42220	Slinger, 1" ID x 1-5/8" OD x 1/8"	1
12	30022	30022	Cap screw, 7/16"-20 UNF x 1-1/2", stainless steel	1
13 ^①	30023	30023	Washer, 7/16" sealing	1
14	GE-60-SS	42235	Cap screw, 5/16" NF x 3/4", stainless steel	4
15 ^①	30028	30028	Washer, 5/16" sealing, stainless steel	4
#	42072	42072	Gas engine, 8 HP Honda, pull start, GX240K1QA2	1
#	42067	42067	Gas engine, 8 HP Honda, electric start, GX240K1QAE2	1
①	RK-GE-860/1660	61010	Repair kit for GE-860	-



GE-860-LE ASSEMBLY INSTRUCTIONS

The -LE pump kit includes all parts necessary to assemble the pump on a gas engine with 1" keyed shaft.

Assembly:

- 1) Remove box contents and verify all parts were received. The following parts are factory installed prior to shipment: a) the 41083 key is in the impeller hub, b) the stationary seal face is in the bracket, and c) the rotating seal face and spring are on the shaft sleeve.

- 2) Install the GE-54 slinger around the engine shaft and slide towards the engine over the shaft shoulder.

- 3) Place the ACAL-88 pump bracket carefully over the engine shaft. Install the bracket with the vent channel top to bottom for proper drainage in case of a seal leak. Verify the slinger is on the shaft with clearance in front and back for proper function.

- 5) Attach the ACAL-88 bracket to engine with (4) GE-60-SS 5/16" cap screws and (4) 30028 5/16" sealing washers. The rubber side of the washer goes against the ACAL-88 bracket. Torque bolts to 12 foot pounds.
Caution: Aluminum engine housing threads may strip if over tightened.

- 6) Apply antiseize compound on the engine shaft and keyway.

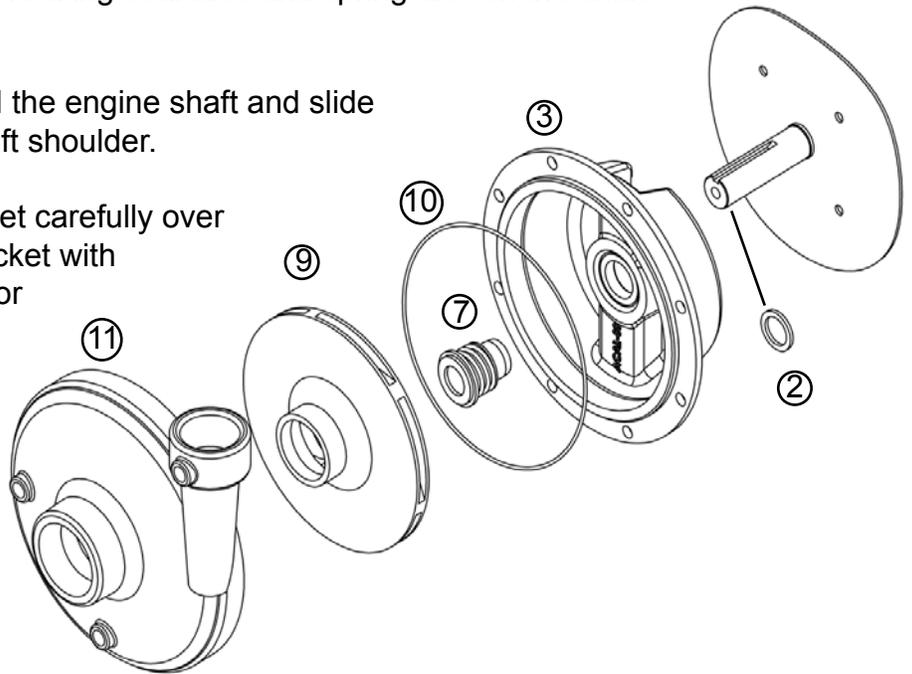
- 7) Install the shaft sleeve-seal assembly over the shaft with the flange away from the engine.
Caution: Be careful not to touch or contaminate the seal face.

- 8) Install the 41865 O-ring into the groove on the ACAL-26-860 impeller hub (grease the o-ring lightly to hold in place for assembly). Install the ACAL-26-860 impeller over the engine shaft aligning the impeller key with the shaft keyway.

Important: Apply removable threadlocker (Ex. Loctite 242) to screw threads.

Note: Torque to 35 foot pounds. Insert a flat file into impeller vane to hold stationary.

- 9) Attach impeller with (1) 30022 7/16" cap screw and (1) 30023 7/16" sealing washer with rubber side against the impeller. Apply removable threadlocker (Ex. Loctite 242) to screw threads and torque to 12 foot pounds.





GE-860-LE ASSEMBLY INSTRUCTIONS (CONTINUED)

- 10) Place the ACAL-4 housing seal O-ring onto the ACAL-88 pump bracket around the pilot.
- 11) Attach ACAL-14 volute to ACAL-88 bracket with (8) 40950 3/8" cap screws. Apply threadlocker or silicon sealer to the bolt threads at the discharge throat to prevent leakage. Tighten bolts to 20 foot pounds of torque.
- 12) Follow the engine manufacturers instructions for engine startup procedures.

SEAL REPLACEMENT INSTRUCTIONS

Disassembly:

- 1) Remove 8) 40950 3/8" cap screws.
- 2) Remove ACAL-14 volute.
- 3) Remove the 30022 7/16" cap screw and 30023 sealing washer from inside the impeller suction port. A screwdriver or file may be placed in an impeller vane to prevent rotation during removal. Discard the used sealing washer.
- 4) Remove the ACAL-26-860 impeller from the shaft. Verify that the key is in place in the impeller keyway. If the key is loose apply silicone and reinstall in the keyway.
- 5) Remove the sleeve-seal assembly from the shaft. Remove the rotating seal face and spring from the shaft sleeve.
- 6) Install the new seal spring and rotating seal face on the shaft sleeve. **Caution:** Be careful not to touch or contaminate the seal face. Water may be placed on the rubber seal components as a lubricant for installation.
- 7) Remove the stationary seal face from the ACAL-88 bracket with a screwdriver and clean the seal bore. Cover the seal face with a clean cloth and press the new stationary seal face into the bracket by hand. **Caution:** Be careful not to contaminate the seal face. Water may be placed on the rubber seal components as a lubricant for installation.
- 8) Refer to the pump assembly instructions on the prior page for re-assembly.