



High Performance Gas Engine Driven Centrifugal Pump



GE-660

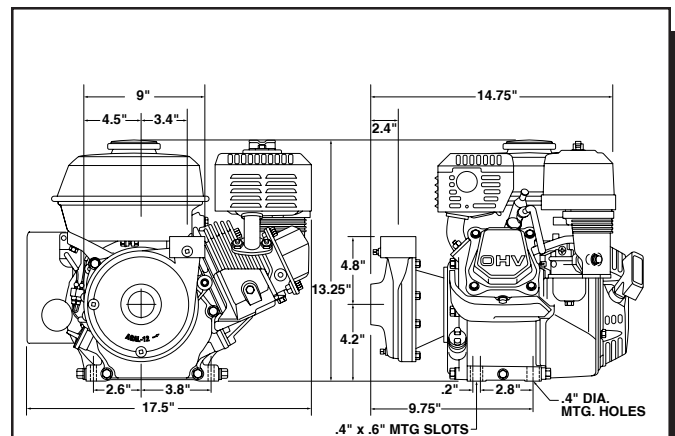
- Suction 1-1/2" Discharge 1-1/4"
 - Maximum Pressure 115 PSI and Maximum Flow 110 GPM
 - Impeller attaches directly to 3/4" keyed shaft on 5.5 HP engine
 - Large vent area between pump and engine
 - Optional electric start engine
 - Available Complete or Less Engine
- GE-660-LE Less Engine
 GE-660-HONDA-ES Electric start

PERFORMANCE CHART

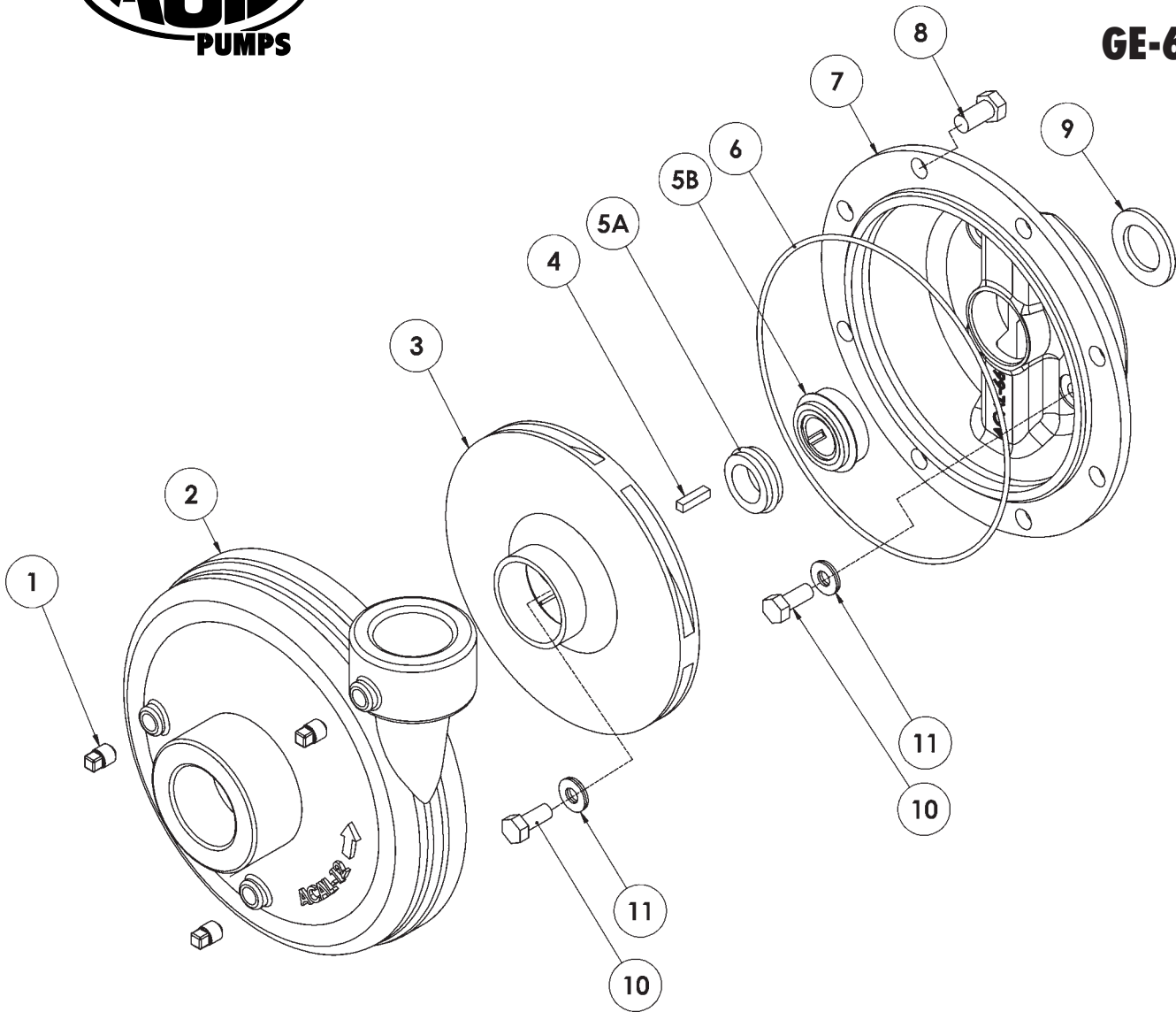
ENGINE SHAFT SPEED*	20	40	60	80	100	113
	PSI	PSI	PSI	PSI	PSI	PSI
	GPM	GPM	GPM	GPM	GPM	GPM
4200 RPM	110	93	75	54	37	20
4000 RPM	110	92	74	53	20	-
3800RPM	110	90	68	42	-	-
3600 RPM	110	90	64	17	-	-
3400 RPM	110	85	49	-	-	-

* Engine shaft speed at shut-off.
 Performance data of pump equipped with 5.5 HP Honda.

DIMENSIONS



Note: GE-660-HONDA-ES pictured. Dimensions may vary depending on make and size of engine. Use only for Reference



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-12	30161	Volute, 1 1/2" x 1 1/4", clockwise rotation	1
3	ACAL-28-660	30171	Impeller, cast iron, 3/4" keyed shaft	1
4	41081	41081	Key, impeller, 3/16" x 3/16" x 3/4",	1
*5	BAC-7-660V	30225	Seal, Type 6A-3/4, carbon/ceramic/Viton	1
*6	BAC-4-150	40015	"O" Ring, volute seal	1
7	ACAL-66	30186	Bracket, GE-660 keyed shaft	1
8	40950	40950	Cap screw, 3/8" NC x 3/4" hex head	8
8	40930	40930	Cap screw, 3/8"NC x 3/4", stainless steel (optional)	8
9	GE-54-660	42222	Slinger	1
10	GE-60-SS	42235	Cap screw, 5/16" NF x 3/4", stainless steel	5
*11	30028	30028	Washer, sealing, 5/16" ID	5
#	42064	42064	Engine, 5.5 HP Honda, electric start, (GX160K1QXE2)	1
#	RK-GE-660	61162	Repair kit	1

* Items included in pump repair kit.



GE-660-LE ASSEMBLY INSTRUCTIONS

The -LE pump kit includes all parts necessary to assemble the pump on a gas engine with 3/4" keyed shaft.

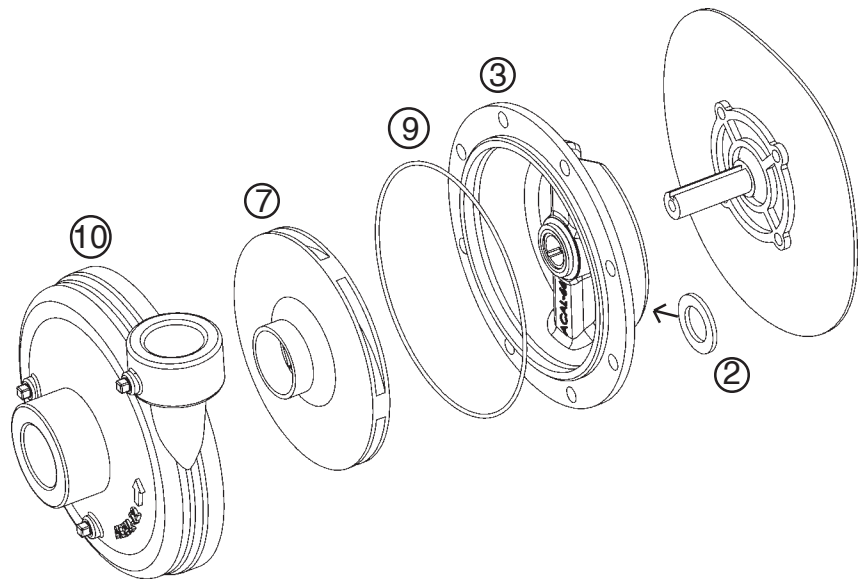
Assembly:

1) Remove box contents and verify parts all parts were received. The rotating seal face and key are factory installed in the impeller hub. The stationary seal face is factory installed in the bracket.

2) Insert the GE-54-660 slinger into the ACAL-66 bracket cavity behind the seal.

3) Place the ACAL-66 pump bracket carefully over the engine shaft. Verify the slinger is on the shaft with clearance in front and back for proper function.

5) Attach the ACAL-66 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-66 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 ACAL-28-660 impeller over the engine shaft aligning the impeller key with the shaft keyway. **Caution:** Be careful not to touch or contaminate the seal face.

8) Attach impeller with (1) GE-60-SS 5/16" cap screw and (1) 30028 5/16" sealing washer with rubber side against the impeller. Apply removable threadlocker (Ex. Loctite 242) to screw threads and torque to 12 foot pounds.

9) Place the BAC-4-150 housing seal O-ring onto the ACAL-66 pump bracket around the pilot.

10) Install ACAL-12 volute to ACAL-66 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.

11) Follow engine manufacturers instructions for engine startup procedures.



SEAL REPLACEMENT INSTRUCTIONS

Disassembly:

- 1) Remove 8) 40950 3/8" cap screws.
- 2) Remove ACAL-12 volute.
- 3) Remove the ACAL-28-660 impeller from the shaft by removing the GE-60-SS 5/16" cap screw and 30028 sealing washer from inside the impeller suction port. A screwdriver or file may be placed in a impeller vane to prevent rotation during removal. Discard the used sealing washer.
- 4) Remove the impeller from the shaft.
- 5) Remove the rotating seal face from the impeller hub by prying with a screwdriver inside the seal ID. Verify that the key is in place in the impeller keyway. If the key is loose apply silicone and reinstall in the keyway.
- 6) Clean the impeller bore and install the new seal face with the smooth side facing out.
Caution: Be careful not to touch or contaminate the seal face. Water may be placed on the O-ring as a lubricant for installation of the seal.
- 7) Remove the ACAL-66 bracket from the engine by removing 4) GE-60-SS 5/16" cap screws and 4) 30028 sealing washers. Discard the used sealing washers.
- 8) Turn the bracket over and press or tap out the stationary seal.
- 9) Clean the seal bore. Apply silicone or permatex to the OD of the seal cup. Press or tap the seal cup evenly into the seal bore with a 1-1/2" pipe nipple. **Caution:** Be careful not to touch or contaminate the seal face.
- 10) Refer to the pump assembly instructions on the prior page for re-assembly.