

Bolt on Sand Seal Pulley Installation

This kit comes complete with all necessary hardware to bolt on a Sand Seal Pulley. No machining of the engine case if required for installation. Before starting the installation, check to make sure that the kit was shipped complete with the following items.

1. Machined Aluminum Degree Pulley
2. Machined Aluminum Seal Retainer w/seal installed
3. 4 Large Crankshaft Pulley Spacers
4. 4 Small Alt./Gen. Pulley Spacers
5. Crankshaft Pulley Bolt and Spring Washer
6. Installation Sheet

First loosen the Alt./Gen. pulley nut and remove the fan belt. Then loosen and remove the crankshaft pulley bolt. Using a pulley puller or two long screwdrivers, one on each side of the pulley, slowly work the pulley off of the crankshaft and set it aside.

When installing the Aluminum Seal Retainer, the crank pulley spacers must be put onto the crankshaft before the seal retainer. Sometimes woodruff keys become dinged up and this might prevent the spacer from being put on. In this case, carefully file the sides of the keyway in the spacer so that it slides on smooth. Do not oversize the keyway when filing!

Before installing the Aluminum Seal Retainer and Seal, the mating surface on the engine case must be clean. Wipe away any dirt or oil that might have gathered there over a period of time. When the engine case is clean, apply a thin layer of gasgacinch or permatex to both mating surfaces of the retainer and case, then slide the retainer into the case. A slight amount of pressure will most likely be required to get the retainer to mate tight against the engine case. A large 46mm socket or something close to the size of the retainer can be used to drive the retainer tightly against the case. When done, the Aluminum Seal Retainer must be secured tightly against the case.

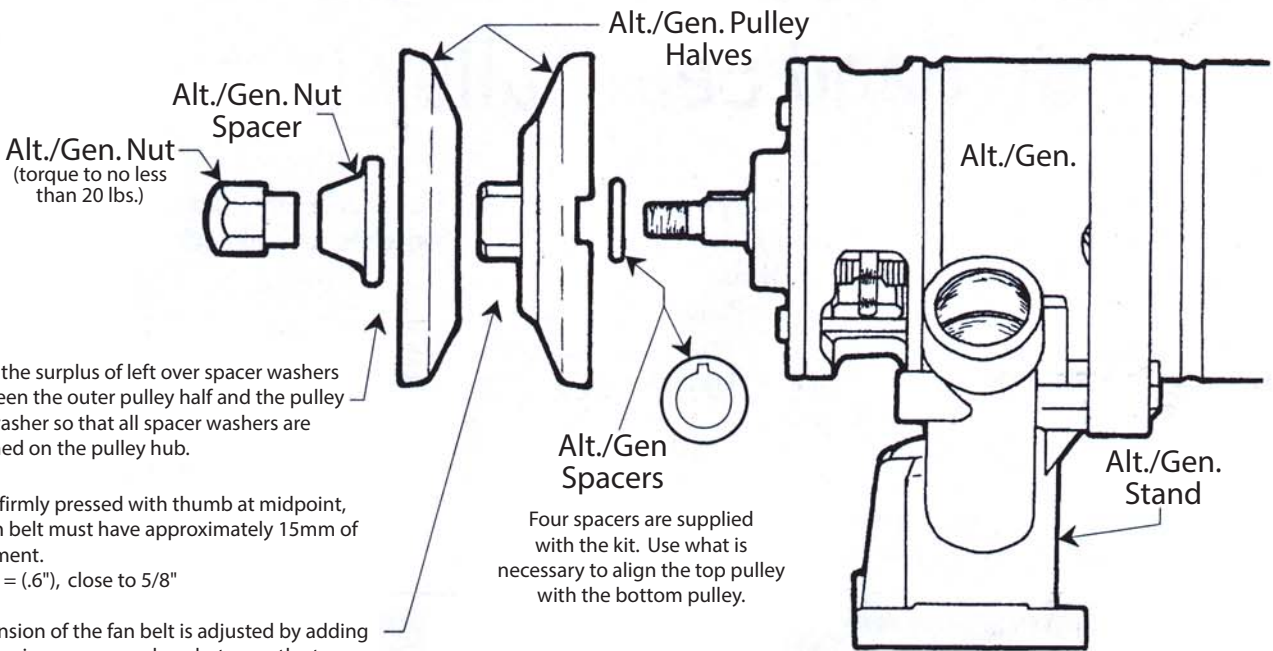
Before sliding the pulley onto the crank, a thin layer of Moly Lube must be applied to the riding surfaces of both the seal and pulley. Applying the lube will prevent the seal from being run dry during initial start up of the engine. In such a case where the seal would have been dry, the seal would be damaged and would therefore need to be replaced. The pulleys are machined with an intentional tight fit and should slide onto the crankshaft snug. If the pulley will not completely go on all of the way by hand, tap the center of the pulley evenly using a normal hammer and a block of wood as a driver. A plastic covered hammer will also do the job. Never use a metal hammer to directly drive the pulley on. This will result in severe damage to the pulley. Thread the crank bolt and washer (supplied in kit) into the end of the crankshaft. The coned part of the spring washer should be facing the head of the bolt when secure. Torque the bolt to no less than 30 lbs.

Now loosen the Alt./Gen. Nut and remove the two pulley halves. Four spacers are supplied in the kit for the Alt./Gen. Pulley. It might not be necessary to use these spacers. The spacers are used to realign the top Alt./Gen. Pulley to the bottom Crankshaft Pulley. Reinstall the fan belt at this time. If the belt shows excessive wear, now is the time to change it. Line the front pulley half up with the hub, slide it on and secure the assembly with the Alt./Gen. Nut and Spacer. Torque the Alt./Gen. Nut to no less than 20 lbs.

For detailed installation procedures, refer to diagram on back side.



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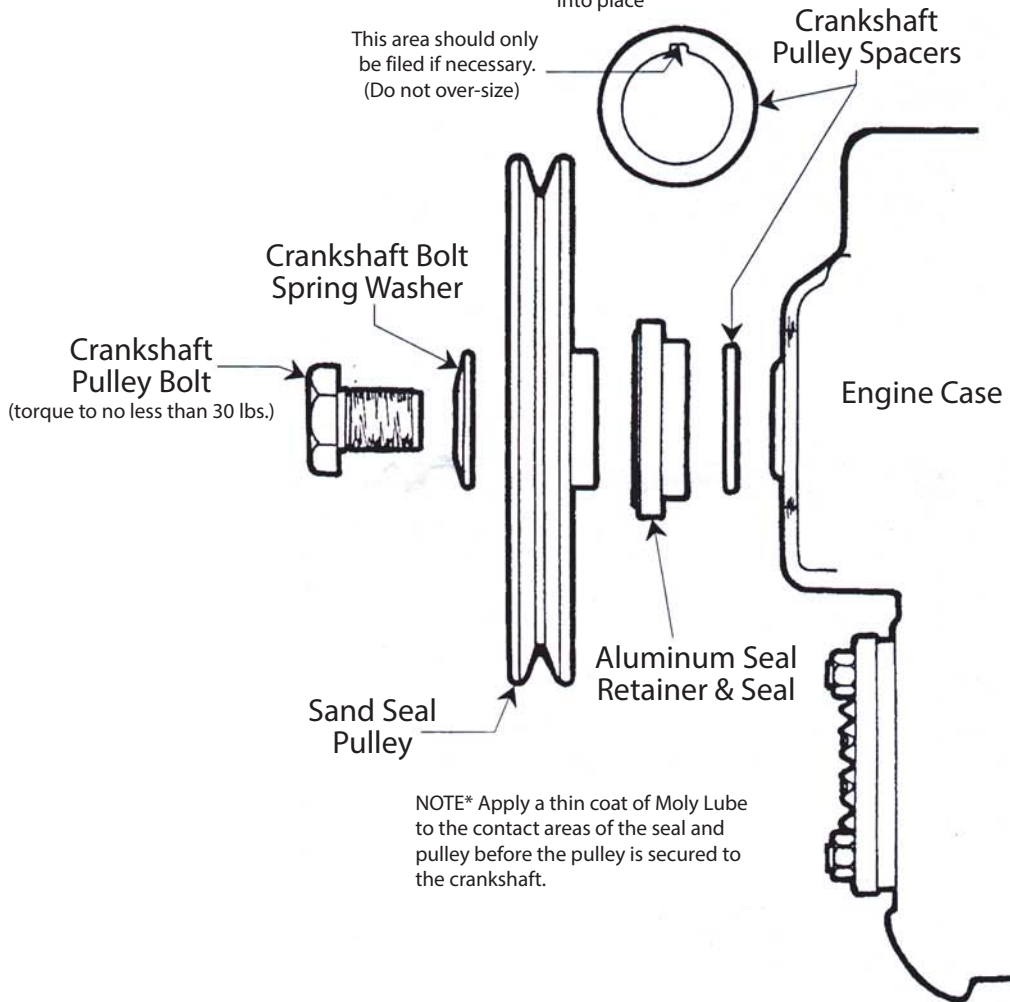
Place the surplus of left over spacer washers between the outer pulley half and the pulley nut washer so that all spacer washers are retained on the pulley hub.

When firmly pressed with thumb at midpoint, the fan belt must have approximately 15mm of movement.
15mm = (.6"), close to 5/8"

The tension of the fan belt is adjusted by adding or removing spacer washers between the two pulley halves. (Approximately 5 shims)

Alt./Gen. Spacers
Four spacers are supplied with the kit. Use what is necessary to align the top pulley with the bottom pulley.

*Crankshaft Spacers must be put onto the crankshaft before the aluminum seal retainer is put into place



This area should only be filed if necessary. (Do not over-size)

NOTE* Apply a thin coat of Moly Lube to the contact areas of the seal and pulley before the pulley is secured to the crankshaft.