

NOTE: When installing the lower check valve, ensure that the gaskets are installed on each side of the valve.



NOTE: After the oil pump has been secured, ensure that the oil lines from the pump to the intake flanges are routed properly.

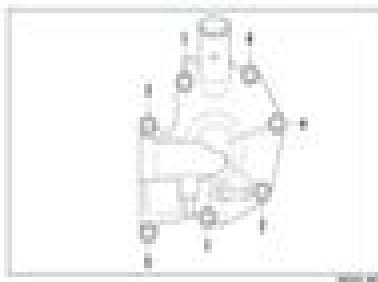
- Place the impeller into position and secure with a cap screw and washer. Be sure the rubber side of the washer is directed towards the impeller. Apply the Lockite 222 to the threads of the cap screw and tighten to 40 in. lb.



- Apply sealant to the crankcase areas, then install the alignment pins into the crankcase oil passages.



- Position the timing into the water pump cover, then install the cover. Install the cap screws, then using the pattern during, tighten to 40 in. lb.



3

Water Pump (1100 cc)

⚠ WARNING

Before doing this servicing procedure, disconnect the negative battery cable to avoid injury.

REMOVING

- Drain the engine coolant from the appropriate Liquid Cooling System in the engine.
- With the engine coolant drained, remove the water bypass line (A), then remove the coolant tube engine line (B).



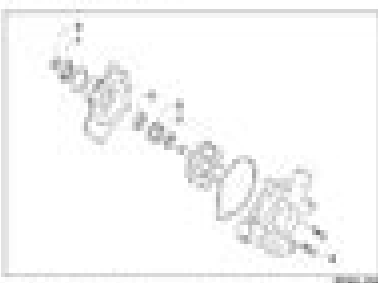
- Remove the upper and lower lines to gain access to the drive pump, then remove the water seal from the water pump.



- Separate the two cap screws securing the water pump to the engine, then remove the pump and mount for the timing.



DISASSEMBLING



- Secure the water pump in a suitable support device, then remove the five Phillips head screws (A) securing the water pump housing.
- Separate the lower water pump housing, then remove the E-clip (B) from the impeller shaft, remove the shaft from the water housing, and remove the venturi and (C) from the shaft.
- With the water housing secured in a suitable clamping device and using Woodruff Keying Puller, remove the mechanical seal (D), then remove the oil seal (E).

NOTE: Apply heat to the housing to aid in removing the seals.

CAUTION

Care should be taken not to apply too much heat to the housing or the heating tool to the bearing may be damaged.

- Using the bearing puller, remove the bearing (F) from the water housing.

NOTE: Apply heat to the housing to aid in removing the bearing.

CAUTION

Care should be taken not to apply too much heat to the housing or the heating tool to the bearing may be damaged.

- Clean the inner and outer bearings with parts cleaning solvent, then dry with compressed air.

⚠ WARNING

Always wear safety glasses when drying components with compressed air.

ASSEMBLING



NOTE: For this procedure, use Water Pump Bearing and Seal Test Kit.

- Using the appropriate-sized installation tool, install the bearing (F) into the water housing.
- Using the appropriate-sized installation tool, install the oil seal (E) with the spring side of the seal facing the bearing.
- Place the mechanical seal (D) onto the water housing, then using the appropriate-sized installation tool, drive the seal onto the bearing until the lip of the seal is properly seated.
- Install the venturi and (C) onto the impeller shaft with the venturi face of the seal facing away from the impeller.
- Install the impeller shaft into the water housing and secure with the E-clip (B), then with a new O-ring properly positioned in the water housing, place the water pump halves together.

Arctic Cat 2011 T570 Service Shop Manual

Robert R. Redfield



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