

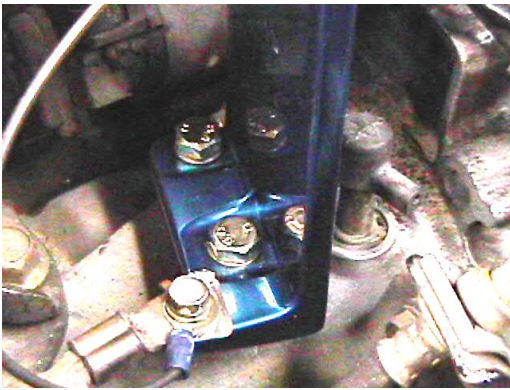
INSTALLATION PROCEURE FOR HONDA V-TECH WATER PUMP

Warning: If you are not familiar with the use of power tools or are not knowledgeable about cam timing in an internal combustion engine please ask a trained professional to install this for you. Meziere Enterprises Inc assumes no liability for improper installation.

Note: Before you begin the installation, double check that you have received the proper idler pulley for your application. There are 19, 22 and 26 tooth pulleys available.

Step 1: Drain the cooling system fluid.

You can drain your cooling system by disconnecting the lower radiator hose or by removing the plug in the bottom of the radiator. Then completely remove the lower hose.



Step 2: Installing the mount bracket.

Disconnect the battery. Disconnect the ground strap and remove the ground strap bracket located on the top of the transmission by removing the two 8MM bolts. Replace this bracket with the aluminum mount bracket. Re-torque the mount bolts to 30 ft-lbs. Reconnect the ground strap.

Step 3. Prep the pump.

Inspect the two supplied fittings to make sure they have o-rings. Use a light lubricant (regular engine oil will work) to lubricate the o-rings and install the fittings into the pump. Tighten the fittings into the pump using some moderation. They must be more than snug but there is no need to over tighten them.

Step 4. Bolt up the pump.

Using the supplied bolts, install the pump and tighten the bolts.

Step 5.

Remove the thermostat and drill 2 holes approximately 5/32 diameter (4mm) in the outer perimeter of the thermostat. This will allow a small amount of flow when the thermostat is in the closed state.



Step 6. Reconnecting the lower hose. Read this carefully!



With the lower hose still connected to the engine mark the hose at the center of the pump. Remove the hose and cut it at the mark. Reconnect the end that was originally connected to the radiator and trim the other end carefully to length. The upper portion of the hose will work better if it is inverted. Connect the cut end of the hose to the engine and trim the other end carefully to length. Secure all hose connections.

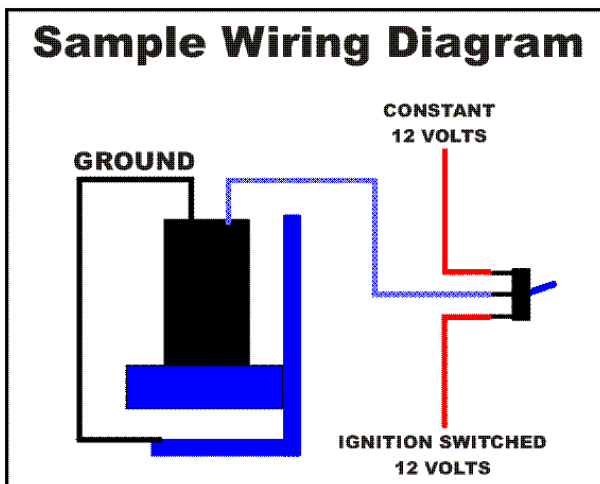
Note: Some applications will require alternate hoses.

Step 7. Installing the idler assembly.

To ensure your cam timing is maintained follow these steps carefully. If proper cam timing is not maintained serious damage to your engine may occur!



Remove the upper and lower plastic guard from the front of the engine. It may be necessary to remove the alternator belt and lower pulley. Turn the engine over to align the two timing marks on the cam gears. Note the spot of rotation on the crankshaft in case it moves. Loosen the belt tensioner bolt and remove the belt. Unbolt the stock water pump. Clean the sealing surface thoroughly and inspect it for any scratches or gouges that may prevent the o-ring from sealing. Inspect the Meziere idler assembly making sure the sealing o-ring is clean and free of any defect. Use a light lubricant on the o-ring. Install the pump and tighten the 6MM bolts. Re-install the belt being careful to maintain the relationship between the crankshaft position and the position of the two cam timing gears. Tension the belt and install the plastic guards.



Step 8. Wiring the pump.

The electrical connection for the pump can be done in a variety of ways. Connect the ground wire (black) with the engine ground wire at the base of the bracket. The 12 volt positive wire (blue) can be run directly to a switch, controlled by a relay or run to any 12 volt source that is on when the ignition is on. Make sure that the power source is protected by a 10-30 amp fuse. There is one supplied with the pump. **WARNING: NOT USING A PROTECTION CIRCUIT WILL VOID YOUR WARRANTY.**

Step 9.

Re-fill the system with the pump on. You should notice a small amount of flow through the radiator. After filling the system warm the engine and check for leaks at the hoses and o-ring connections. Also check at the idler for proper seal.

WARNING: NOT USING A FUSE CIRCUIT WILL VOID YOUR WARRANTY.