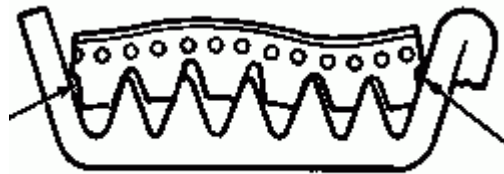


Power Steering Pulley Alignment

A chirping noise from the accessory drive belt that is more noticeable at idle than at higher speeds may be caused by a power steering pump pulley that is out of alignment.

The misaligned power steering pulley causes the accessory drive belt to chirp as the belt enters it on an angle on 4.9L engines, or after it leaves the power steering pump pulley, travels over the water pump pulley and enters into the crankshaft pulley on an angle on 5.0L and 5.8L engines. Verify that the chirping noise is coming from the entrance to one of these two pulleys by listening through a length of rubber hose or other type of stethoscope-like device.

If the chirp has been isolated to one of these pulleys, to correct this condition align the power steering pump pulley using the following service procedure.



CHIRP CONDITION

NOTE:

Accessory drive belt chirp not corrected by this procedure may be caused by a damaged pulley or bent accessory shafts. Steady pulsation of the drive belt tensioner indicates this condition. Observe each pulley in the system for runout.

1. **CAUTION:** Do not sand the edges of the drive belt or apply lubricants or dressings. These are only temporary fixes and may damage belt.
Clean the accessory drive belt with mild soap and water to wash away oil or other contaminants.
2. On some models, it may be necessary to remove the fan shroud (8146) to allow for proper installation and operation of the power steering pulley puller and installer tools.
3. Using Power Steering Pump Pulley Remover set the power steering pump pulley hub to within ± 0.010 inch of being flush with the end of the power steering pump shaft.
4. **CAUTION:** Damaged belts should be replaced before proceeding.
Operate the engine at idle for five (5) minutes to see if chirping noise has been corrected. If not, proceed to Step 5.
5. Select a direction and move the power steering pump pulley at .50mm (.020 inch) increments in that direction. After each move (increment), remove the tool and operate the engine for five (5) minutes. If chirp fades, alignment is being achieved; if chirp increases, reverse the alignment direction. Continue moving the pulley until the noise is eliminated.