

# The Belt is the Symptom... NOT the Cause

**What causes belt noise? Misalignments and Slippage cause belt noise.**

## DODGE

### DODGE TRUCK – Belt Chirp

Some 2003 – 06 Ram pickups with the Cummins diesel engine may produce an irritating chirp from the accessory drive belt just as the engine is shut down. According to Dodge, the noise is caused by the drive belt slipping on the alternator pulley as the engine makes an abrupt stop. Replacing the alternator pulley with an upgraded unit with an overrunning clutch mechanism should eliminate this annoyance.

Replace with Dayco #5081260

*(MOTOR, May 2008)*

## TOYOTA

### TOYOTA TRUCK – Drive Belt Squeal

Owners of 2000 – 06 Tundra pickup trucks may complain of an annoying squealing sound coming from the front of the engine. According to Toyota, the noise is most obvious during cold engine start-up and is due to the serpentine drive belt slipping on the accessory pulleys. Installing a new design automatic belt tensioner with a revised a/c compressor mounting bracket should help eliminate the annoyance.

Replace with Dayco #5060905

*(MOTOR, May 2008)*

## JEEP

### JEEP WRANGLER – Belt Chirping Noise

2002 – 05 Jeep Wranglers with a 2.4L engine many times experience a chirp like sound coming from the accessory drive belt. The sound may become more pronounced at higher engine speeds. Investigation may reveal accelerated accessory drive belt wear even though the belt is properly installed on all pulleys. The accessory drive belt chirp-like sound is most likely caused by the misalignment of the power steering pump pulley to the shaft of the power steering pump. The pulley may have been installed too far (over-installed) onto the pump shaft. The front surface of the power steering pump pulley hub should be flush with the end of the power steering pump shaft.

Replace with Dayco #5060845

*(Oil Lube and News, February 2007)*

## DODGE

### DODGE DURANGO / PICKUPS - Drive Belt Noise

1993 – 2003 Dodge trucks equipped with the 5.9L gas engines are prone to cause annoying drive belt squeal. This drive design is known to one of the most demanding drives in the aftermarket because of the following reasons. Seven point complicated drive system with a small amount of belt wrap on the tensioner. The tensioner is an offset design causing additional amount of stress on the tensioner arm leading to misalignments. The water pumps are known to have bearing wear causing slight misalignments that translate into belt noise. Replacing the water pump is recommended.

Replace with Dayco 5070973

*(All data, Dayco Engineering Department, November 2008)*

## NISSAN

### NISSAN - Belt Noise

Some 2005 -07 Xterra and Pathfinder SUVs and Frontier pickup trucks with the VQ40 engine built before 9/27/06 may emit an irritating chirp or squeal from the engine compartment. Nissan says the noise usually surfaces at first start-up in the morning, especially in cold or damp weather, or after extended run times of an hour or longer. Drive belt slippage is the cause of the ratchet. To eliminate the noise, first check the alignment or the power steering pump pulley in relation to the other pulleys. If the alignment is out-of-whack, readjust the pump bracket.

Replace with Dayco #5070874

*(MOTOR, April 2009)*

**CHRYSLER****CHRYSLER MINIVAN – Belt Squeal**

2001 Caravan, Town & Country or Voyager has an accessory drive belt that squeals or jumps off the pulleys, check for water that may be leaking from the wiper module drain tube connector and dripping onto the accessory drive belt. In colder climate, ice can form on the accessory drive belt and may cause the belt to jump off the pulleys when the vehicle is started. Repair procedure is to install a drain tube connector foam seal.

Replace with Dayco #5060825

*(UNDERHOOD Service, January 2009)*

**MITSUBISHI****MITSUBISHI – Drive Belt Noise**

Some 2006 3.7L Raider pickups may produce a chirping sound from the drive belt. Mitsubishi says the noise is most obvious when the vehicle is moving slowly with the steering wheel at full lock, and is most likely the result of the drive belt slipping on the alternator pulley. Installing an upgraded alternator pulley with a built-in overrunning clutch should prevent further slippage and eliminate the chirping noise.

Replace with Dayco #5060875

*(MOTOR, March 2009)*

**MAZDA****MAZDA – Drive Belt Noise**

1993 – 2005 Mazda Miata and Protégé have drive belt pulleys that are designed with deeper grooves than the standard SAE specified pulley. Many times this will cause belt noise from the replacement belts (OE and aftermarket) because the pulley is re-profiling or reshaping the belt during initial run-in. Dayco has re-engineered this part number with additional layers of material along with increasing the rib depth from .080 to .100 inches.

Replace with Dayco #5040350

*(Dayco Engineering Department, November 2008)*

**Other Noted Demanding Drives**

- 2002 – Toyota Echo 1.5L L4 (Dayco #5030335, 5040465)
- 2000 – Ford F150 4.2L V6 (Dayco #5061030)
- 1996 – 2000 Dodge Caravan 3.0L V6 (Dayco #5060805)
- 1998 – GMC 5.0L and 5.7L V8 (Dayco #5060960, 5060968)
- 2002 – Ford Explorer 4.0L V6 (Dayco #5060855)
- 1998 – GMC Envoy 4.3L V6 (Dayco #5060960)
- 2002 – Chevy Tahoe 5.3L V8 (Dayco #5060923, 5060930)
- 1998 – Mazda Protégé 1.5L L4 (Dayco #5040350, 5040390)
- 2001 – Lexus LX300 3.0L V6 (Dayco #5060408)
- 1993 – Dodge Caravan 3.3L V6 (Dayco #5060990)

*The Dayco “W” Profile Belt is Still the Very Best Solution for Demanding Drives.*



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