

2008 Ford Mustang

2008 ENGINE Accessory Drive - Mustang

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Accessory Drive - Mustang

SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Specification
Accessory drive belt	6 ribs
Supercharger (SC) drive belt	10 ribs

TORQUE SPECIFICATIONS

Description	Nm	lb-ft	lb-in
Accessory drive belt tensioner bolt - 4.0L SOHC	47	35	-
Accessory drive belt tensioner bolts - 4.6L (3V)	25	18	-
Accessory drive belt tensioner bolt - 5.4L (4V)	25	18	-
Accessory drive belt idler pulley bolt - 4.0L SOHC	47	35	-
Accessory drive belt idler pulley bolts - 4.6L (3V)	25	18	-
Accessory drive belt grooved idler pulley bolt - 5.4L (4V)	25	18	-
Accessory drive belt smooth idler pulley stud bolt - 5.4L (4V)	25	18	-
Coolant pump pulley bolts - 5.4L (4V)	25	18	-
Coolant tube bracket nut - 5.4L (4V)	9	-	80
Supercharger (SC) belt tensioner bolt - 5.4L (4V)	48	35	-
SC belt smooth idler pulley bolt - 5.4L (4V)	25	18	-
SC belt grooved idler pulley bolt - 5.4L (4V)	25	18	-
SC belt heavy load idler pulley bolt - 5.4L (4V)	48	35	-

DESCRIPTION AND OPERATION

ACCESSORY DRIVE

The accessory drive system:

- has a serpentine drive belt with 6 ribs.
- has an automatic drive belt tensioner.
- is not adjustable.
- has a Supercharger (SC) drive belt with 10 ribs (5.4L only).

The accessory drive system provides power to operate components which power other systems. These could include components such as the generator, power steering pump and A/C compressor. Each of these components is equipped with a pulley which is driven by the accessory drive belt. The accessory drive belt is driven by the engine crankshaft pulley. One or more idler pulleys may be provided to facilitate belt routing and alignment. The automatic belt tensioner maintains correct belt tension and compensates for component wear

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and changes in system load. System load changes can be caused by the A/C compressor clutch engaging or disengaging, or demand changes on other systems powered by the accessory drive belt. To maintain correct operation of this system, it is critical that the correct length drive belt be installed. The pulleys must also be correctly aligned and kept clean.

Accessory Drive Belt Routing

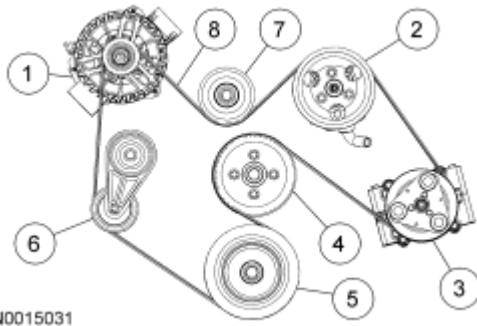


Fig. 1: Accessory Drive Belt Routing - 4.0L SOHC
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	10300	Generator pulley
2	3A733	Power steering pump pulley
3	19D784	A/C compressor pulley
4	8509	Coolant pump pulley
5	6B321	Crankshaft pulley
6	6B209	Accessory drive belt tensioner pulley
7	6C348	Accessory drive belt idler pulley
8	8620	Accessory drive belt

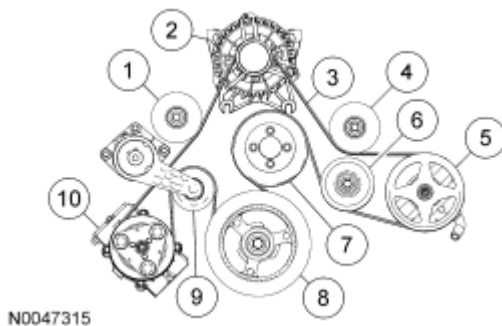


Fig. 2: Accessory Drive Belt Routing - 4.6L (3V)
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	19A216	Accessory drive belt idler pulley

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2	10300	Generator pulley
3	8620	Accessory drive belt
4	19A216	Accessory drive belt idler pulley
5	3A696	Power steering pump pulley
6	6C348	Accessory drive belt idler pulley
7	8A528	Coolant pump pulley
8	6316	Crankshaft pulley
9	6B209	Accessory drive belt tensioner pulley
10	19D784	A/C compressor pulley

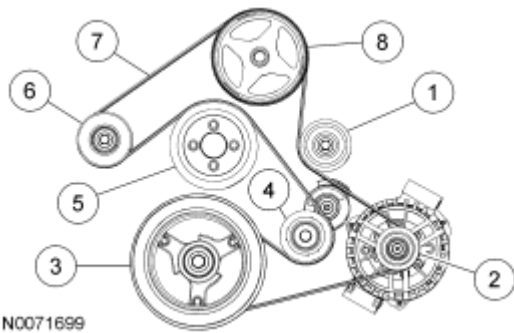


Fig. 3: Accessory Drive Belt Routing - 5.4L (4V)
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	19A216	Accessory drive belt idler pulley
2	10300	Generator pulley
3	6316	Crankshaft pulley
4	6B209	Accessory drive belt tensioner pulley
5	8A528	Coolant pump pulley
6	19A216	Accessory drive belt idler pulley
7	8620	Accessory drive belt
8	3D673	Power steering pump pulley

Supercharger (SC) Belt Routing

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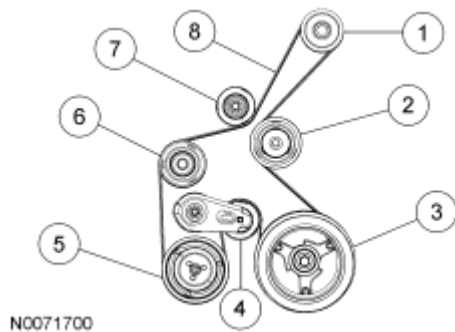


Fig. 4: Supercharger (SC) Belt Routing - 5.4L (4V)
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	6F066	Supercharger (SC) pulley
2	19A216	SC belt heavy load idler pulley
3	6316	Crankshaft pulley
4	6B209	SC belt tensioner pulley
5	19D784	A/C compressor pulley
6	6C348	SC belt grooved idler pulley
7	19A216	SC belt smooth idler pulley
8	8620	SC belt

DIAGNOSTIC TESTS

ACCESSORY DRIVE

Inspection and Verification

NOTE: Under no circumstances should the accessory drive belt, tensioner or pulleys have any fluids or belt dressing applied to them as damage to the belt material and tensioner damping mechanism may occur.

1. Verify the customer concern by operating the system.
2. Visually inspect for obvious signs of mechanical damage.

VISUAL INSPECTION CHART

Mechanical
• Drive belt cracking/chunking/wear • Belt/pulley contamination • Incorrect accessory drive belt • Incorrectly routed accessory drive belt • Pulley misalignment or excessive pulley runout

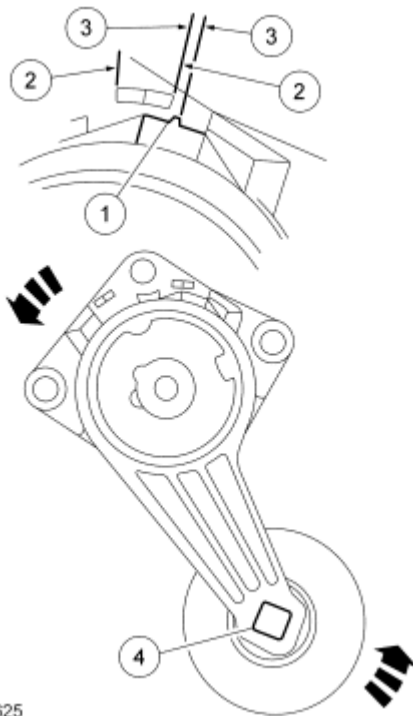
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- Loose or mislocated hardware
- Incorrectly routed power steering tubes (rubbing)
- Loose accessory drive belt
- Damaged pulleys
- Tensioner arm misalignment

NOTE: **Modular engine (without A/C) belt tensioner shown, others similar.**

NOTE: **Belt tensioner is shown in the free-state position against the arm travel stops.**



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Fig. 5: Belt Tensioner With Belt Length Indicator
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Belt length indicator
2	-	Acceptable belt installation and wear range
3	-	Belt replacement range

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4	-	Belt tension relief point
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3. Check that the belt length indicator, if equipped, on the belt tensioner is in the acceptable belt installation and wear range. If the indicator is in the belt replacement range, either an incorrect belt is installed or the belt is worn beyond the service limit. Install a new belt as necessary.
4. Eliminate all other non-belt related noises that could cause belt misdiagnosis, such as A/C compressor engagement chirp, A/C slugging noise, power steering cavitations at low temperatures, Variable Camshaft Timing (VCT) tick or generator whine.
5. If a concern is found, correct the condition before proceeding to the next step.

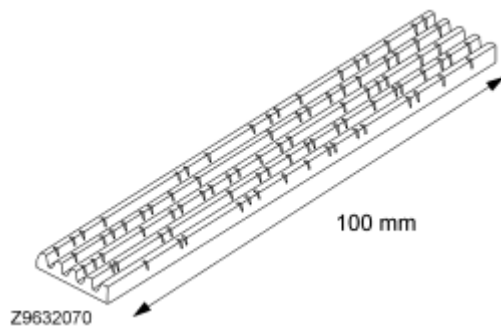
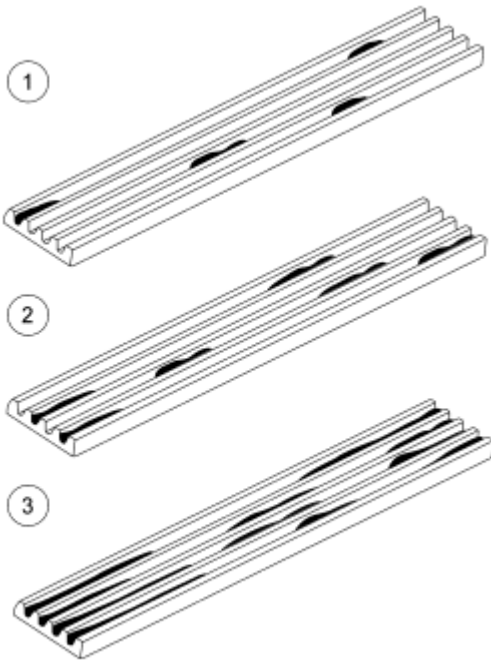


Fig. 6: V-Ribbed Serpentine Drive Belt With Cracks Across Ribs
Courtesy of FORD MOTOR CO.

6. Check the belt for cracks. Up to 15 cracks in a rib over a distance of 100 mm (4.0 in) can be considered acceptable. If cracks exceed this standard, install a new belt.

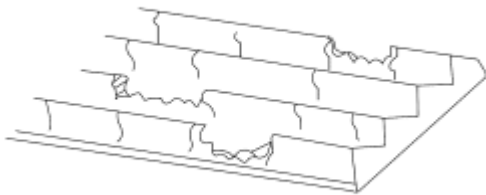
NOTE: Piling is an excessive buildup in the V-grooves of the belt.



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Fig. 7: Identifying V-Ribbed Serpentine Belt With Piling
Courtesy of FORD MOTOR CO.

7. The condition of the V-ribbed drive belt should be compared against the illustration and appropriate action taken.
 1. Small scattered deposits of rubber material. This is not a concern, therefore, installation of a new belt is not required.
 2. Longer deposit areas building up to 50% of the rib height. This is not considered a durability concern, but it can result in excessive noise. If noise is apparent, install a new belt.
 3. Heavy deposits building up along the grooves resulting in a possible noise and belt stability concern. If heavy deposits are apparent, install a new belt.



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Fig. 8: Identifying V-Ribbed Serpentine Belt With Chunks of Rib Missing
Courtesy of FORD MOTOR CO.

8. There should be no chunks missing from the belt ribs. If the belt shows any evidence of this, install a new

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accessory drive belt.

9. If the concern is not visually evident, verify the symptom and Go to **Symptom Chart**.

Symptom Chart

Symptom Chart

Condition	Possible Sources	Action
Accessory drive belt cracking (over 15 cracks in a rib over a distance of 100 mm [4.0 in])	Accessory drive belt	INSPECT the accessory drive belt. REFER to <u>Inspection and Verification</u>. INSTALL a new accessory drive belt as necessary.
Accessory drive belt chunking	- Accessory drive belt - Damaged pulley grooves	- INSPECT the accessory drive belt. REFER to <u>Inspection and Verification</u>. INSTALL a new accessory drive belt as necessary. - INSPECT the accessory drive belt pulley grooves for damage. INSTALL a new pulley or component as necessary.
Accessory drive belt noise, squeal, chirping or flutter	- Defective/worn or incorrect accessory drive belt - Misaligned pulley(s) - Pulley runout - Damaged or worn accessory drive component or idler - Fluid contamination of accessory drive belt or pulleys - Damaged or worn accessory drive belt tensioner - Damaged pulley grooves	- REFER to <u>Drive Belt - Noise/Flutter</u>. REPAIR or INSTALL new parts as necessary. - REFER to <u>Belt Tensioner - Mechanical</u> and <u>Belt Tensioner - Dynamics</u>. INSTALL a new accessory drive belt tensioner as necessary. - INSPECT the accessory drive belt pulley grooves for damage. INSTALL a new pulley or component as necessary.

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	• Accessory drive component failure • Accessory drive belt idler pulley bearing failure	• CHECK the accessory drive components. INSTALL new components as necessary. • INSPECT the accessory drive belt idler pulley for freedom of rotation and damage. INSTALL a new accessory drive belt idler pulley as necessary.
• Supercharger (SC) drive belt squeal during 1st to 2nd gear shift under hard acceleration	• SC drive belt system	• This is a normal characteristic of this vehicle under this driving condition. This is due to the transmission being shifted faster than the SC drive belt system can respond.
• Premature accessory drive belt wear	• Defective or incorrect accessory drive belt • Misaligned pulley(s) • Pulley runout • Damaged accessories • Incorrectly installed drive belt • Fluid contamination • Damaged pulley grooves	• REFER to <u>Drive Belt - Noise/Flutter</u> and <u>Drive Belt - Incorrect Installation</u>. REPAIR or INSTALL new parts as necessary. • INSPECT the accessory drive belt pulley grooves for damage. INSTALL a new pulley or component as necessary.

Component Tests

Drive Belt - Noise/Flutter

NOTE: Under no circumstances should the accessory drive belt, tensioner or pulleys have any fluids or belt dressing applied to them as damage to the belt material and tensioner damping mechanism may occur.

Drive belt chirp occurs due to pulley misalignment or excessive pulley runout. It can be the result of a damaged or incorrectly aligned grooved pulley.

To correct, determine the area where the noise comes from. Check each of the pulleys in that area with a straightedge to the crankshaft pulley. Look for accessory pulleys out of position in the fore/aft direction or at an angle to the straightedge.

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Drive belt squeal may be an intermittent or constant noise that occurs when the drive belt slips on an accessory pulley under certain conditions.

A short intermittent squeal may occur during engine start up and shut down or during very rapid engine acceleration and decelerations, such as:

- Wide Open Throttle (WOT) 1-2 and 2-3 shifts or 2-3 and 3-4 back-out shifts on automatic transmissions.
- WOT 1-2 and 2-3 shifts and any combination of rapid downshifting on manual transmissions.

These special short-term transient events are expected, and are due to the higher system inertias required to meet the electrical and cooling demands on today's vehicle systems. Constant or reoccurring drive belt squeal can occur:

- if the A/C discharge pressure goes above specifications:
 - the A/C system is overcharged.
 - the A/C condenser core airflow is blocked.
 - the A/C anti-slugging strategy executes after a long hot heat soak.
- if the A/C off equalized pressure (the common discharged and suction pressure that occurs after several minutes) exceeds specifications.
- if any of the accessories or idler pulley(s) are damaged or have a worn or damaged bearing. All accessories should be rotatable by hand in the unloaded condition. If not, inspect the accessory.
- if there is evidence of fluid contamination on the accessory drive belt. When the drive belt has been exposed to fluid contamination during vehicle operation, such as leaks from the power steering system, A/C system or cooling system, clean all pulleys with soap and water, rinse with clean water and install a new accessory drive belt. If the drive belt has been exposed to fluids in a localized area during routine vehicle service, such as replacement of hoses or fluids, the drive belt and pulleys should be washed with soap and water immediately (prior to starting the engine), and rinsed with clean water.
- if the accessory drive belt is too long. A drive belt that is too long will allow the accessory drive belt tensioner arm to go all the way to the arm travel stop under certain load conditions, which will release tension to the drive belt. If the accessory drive belt tensioner indicator is outside the normal installation wear range window, install a new accessory drive belt.

NOTE: **The accessory drive belt tensioner arm should rotate freely without binding.**

- Install a new accessory drive belt tensioner if the drive belt tensioner is worn or damaged.

Drive Belt - Incorrect Installation

NOTE: **Incorrect accessory drive belt installation will cause excessive drive belt wear and may cause the drive belt to come off the pulleys.**

Non-standard accessory drive belts can track differently or incorrectly. If an accessory drive belt tracks incorrectly, install a new accessory drive belt to avoid performance failure or loss of the drive belt.

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Fig. 9: Identifying Incorrect Drive Belt Installation
Courtesy of FORD MOTOR CO.



N0017168

Fig. 10: Identifying Correct Installation Of Drive Belt
Courtesy of FORD MOTOR CO.

With the engine running, check accessory drive belt tracking on all pulleys. If the edge of the accessory drive belt rides beyond the edge of the pulleys, noise and premature wear will occur. Make sure the accessory drive belt rides correctly on the pulley. If an accessory drive belt tracking condition exists, proceed with the following:

- Visually check the accessory drive belt tensioner for damage and wear, especially the mounting pad surface and arm alignment. If the accessory drive belt tensioner is not installed correctly, the mounting surface pad will be out of position. If the tensioner arm is worn, the arm will be out of alignment. Either of these conditions will result in chirp and squeal noises.
- With the engine running, visually observe the grooves in the pulleys (not the pulley flanges or the pulley forward faces) for excessive wobble. Install new components as necessary.
- Check all accessories, mounting brackets and the accessory drive belt tensioner for any interference that would prevent the component from mounting correctly. Correct any interference condition and recheck the accessory drive belt tracking.
- Tighten all accessories, mounting brackets and accessory drive belt tensioner retaining hardware to specification. Recheck the accessory drive belt tracking.

Belt Tensioner - Mechanical

The only mechanical check that needs to be made is a check for tensioner stick, grab or bind.

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1. With the engine off, check routing of the accessory drive belt. Refer to the illustrations under **Accessory Drive** in the Description and Operation portion of this section.

NOTE: **The accessory drive belt tensioner spring is very strong and requires substantial force to release.**

2. Using a suitable, commercially available serpentine belt tensioner release tool, release the tension on the belt and detach the accessory drive belt from the tensioner. Carry out the following tests:
 - Using the release tool, move the tensioner from its relaxed position, through its full stroke and back to the relaxed position to make sure there is no stick, grab or bind, and to make sure that there is tension on the tensioner spring.
 - Rotate the tensioner pulley by hand and check for a binding, contaminated or seized condition.
 - Inspect the area surrounding the accessory drive belt tensioner for oil leaks or contamination and repair any leaks.
3. If the accessory drive belt tensioner does not meet the criteria in the previous step, install a new tensioner. If the accessory drive belt tensioner meets the criteria in the previous step, proceed to testing the tensioner dynamically.
4. If the tensioner is saturated with oil and grease internally, install a new tensioner.

Belt Tensioner - Dynamics

The accessory drive belt tensioner can be checked dynamically as follows:

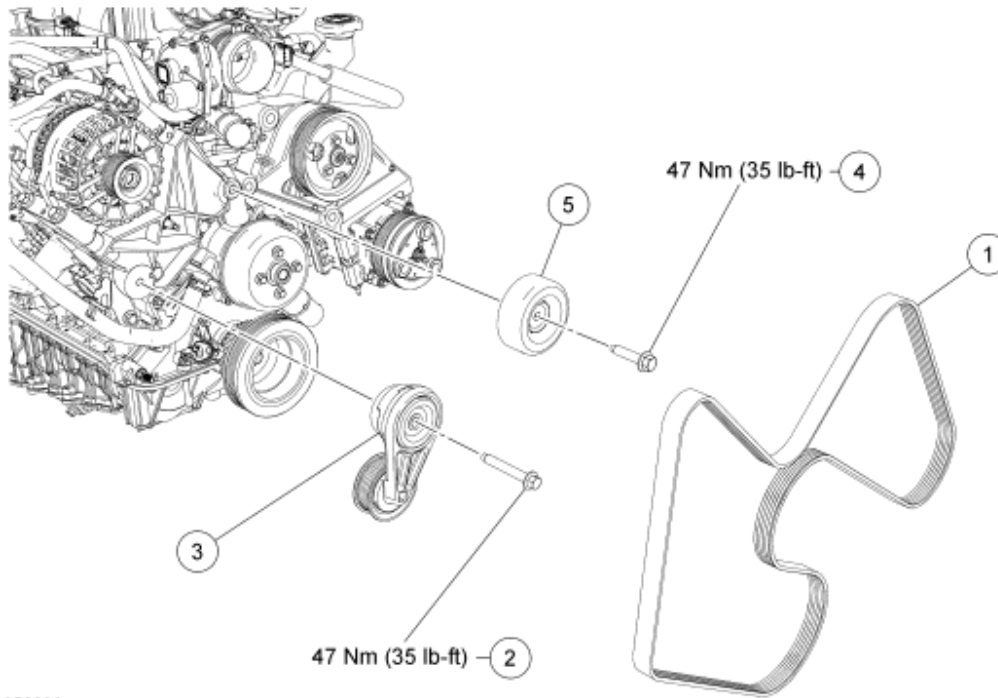
1. With the engine running, observe the accessory drive belt tensioner movement. The accessory drive tensioner should move (respond) when the A/C clutch cycles (if equipped), or when the engine is accelerated rapidly. If the accessory drive belt tensioner movement is excessive without A/C clutch cycling or engine acceleration, check belt ride out. Excessive belt ride out (uneven depth of grooves in the belt) can cause excessive accessory drive belt tensioner movement. Check ride out condition by installing a new belt. If excessive accessory drive belt tensioner movement still exists, install a new accessory drive belt tensioner.

REMOVAL AND INSTALLATION

FRONT END ACCESSORY DRIVE (FEAD) - EXPLODED VIEW

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Fig. 11: Exploded View Of Front End Accessory Drive (FEAD) With Torque Specifications - 4.0L SOHC
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	8620	Accessory drive belt
2	W500325	Accessory drive belt tensioner bolt
3	6B209	Accessory drive belt tensioner
4	-	Accessory drive belt idler pulley bolt (part of 6C348)
5	6C348	Accessory drive belt idler pulley

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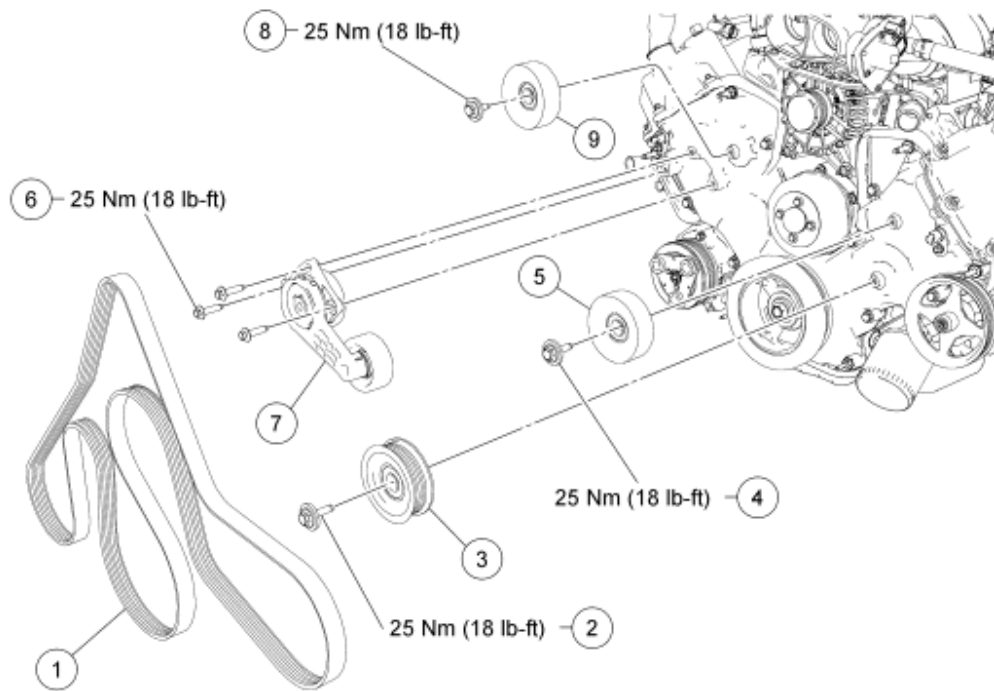


Fig. 12: Exploded View Of Front End Accessory Drive (FEAD) With Torque Specifications - 4.6L (3V)
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	8620	Accessory drive belt
2	W707288	Accessory drive belt idler pulley bolt
3	6C348	Accessory drive belt idler pulley
4	N808102	Accessory drive belt idler pulley bolt
5	19A216	Accessory drive belt idler pulley
6	N808920	Accessory drive belt tensioner bolt (3 required)
7	6B209	Accessory drive belt tensioner
8	N808102	Accessory drive belt idler pulley bolt
9	19A216	Accessory drive belt idler pulley

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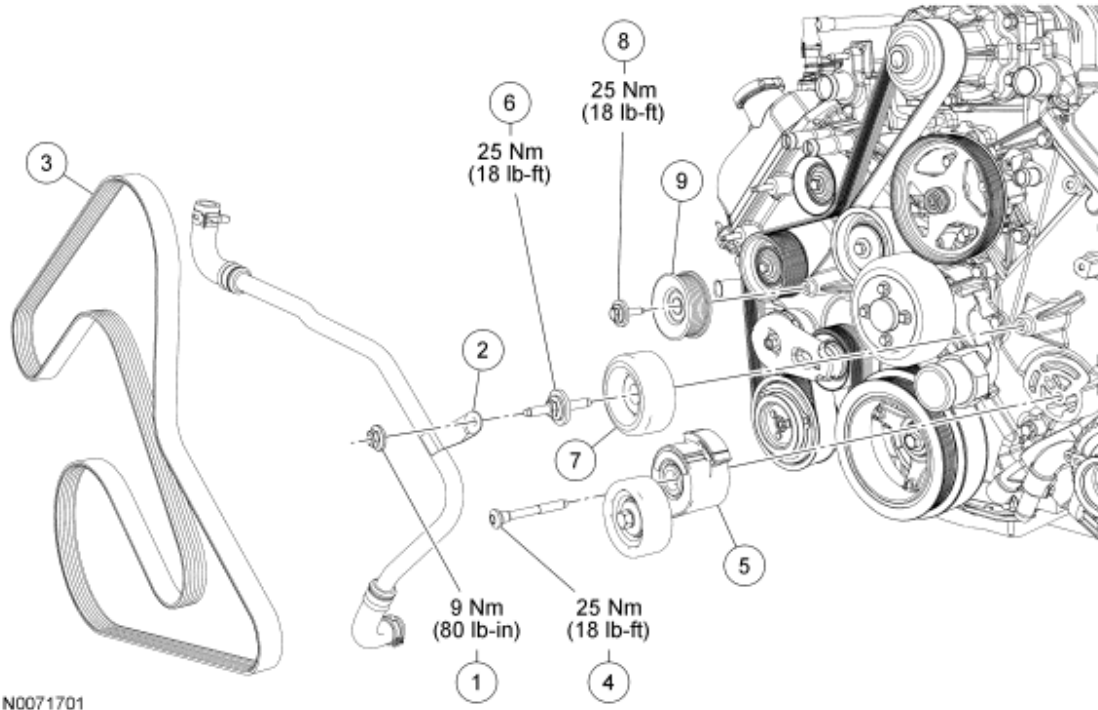


Fig. 13: Exploded View Of Front End Accessory Drive (FEAD) With Torque Specifications - 5.4L (4V)
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	N621905	Coolant tube bracket nut
2	6B851	Coolant tube
3	8620	Accessory drive belt
4	-	Accessory drive belt tensioner bolt (part of 6B209)
5	6B209	Accessory drive belt tensioner
6	W712808	Accessory drive belt smooth idler pulley stud bolt
7	19A216	Accessory drive belt smooth idler pulley
8	N808102	Accessory drive belt grooved idler pulley bolt
9	19A216	Accessory drive belt grooved idler pulley

1. For additional information, refer to the procedures.

ACCESSORY DRIVE BELT - 4.0L SOHC

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner counterclockwise and remove the accessory drive belt.

NOTE: Refer to the illustration for correct drive belt routing.

2. To install, reverse the removal procedure.

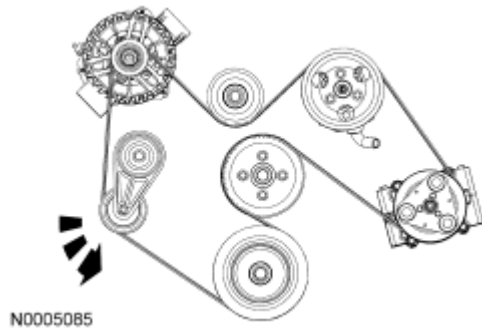


Fig. 14: Rotating Accessory Drive Belt Tensioner
Courtesy of FORD MOTOR CO.

ACCESSORY DRIVE BELT - 4.6L (3V)

REMOVAL AND INSTALLATION

Bullitt vehicles

1. Remove the air cleaner outlet tube. For additional information, refer to **INTAKE AIR DISTRIBUTION AND FILTERING** article.

All vehicles

2. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt.

NOTE: Refer to the illustration for correct drive belt routing.

3. To install, reverse the removal procedure.

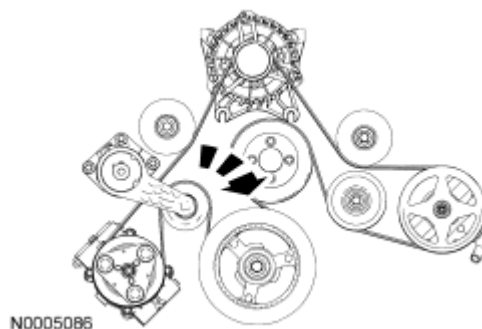


Fig. 15: Rotating Accessory Drive Belt Tensioner Clockwise

Courtesy of FORD MOTOR CO.

ACCESSORY DRIVE BELT - 5.4L (4V)

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt.

NOTE: Refer to the illustration for correct drive belt routing.

2. To install, reverse the removal procedure.

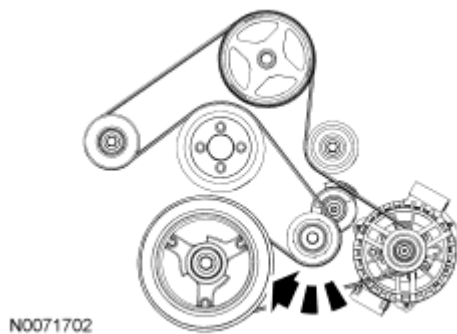


Fig. 16: Rotating Accessory Drive Belt Tensioner Clockwise & Removing Accessory Drive Belt
Courtesy of FORD MOTOR CO.

ACCESSORY DRIVE BELT TENSIONER - 4.0L SOHC

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner counterclockwise and remove the accessory drive belt from the accessory drive belt tensioner.
2. Remove the bolt and the accessory drive belt tensioner.
 - To install, tighten to 47 Nm (35 lb-ft).
3. To install, reverse the removal procedure.

ACCESSORY DRIVE BELT TENSIONER - 4.6L (3V)

REMOVAL AND INSTALLATION

Bullitt vehicles

1. Remove the air cleaner outlet tube. For additional information, refer to **INTAKE AIR DISTRIBUTION AND FILTERING** article.

All vehicles

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2. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt from the accessory drive belt tensioner.
3. Remove the 3 bolts and the accessory drive belt tensioner.
 - To install, tighten to 25 Nm (18 lb-ft).
4. To install, reverse the removal procedure.

ACCESSORY DRIVE BELT TENSIONER - 5.4L (4V)

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt from the accessory drive belt tensioner.
2. Remove the bolt and the accessory drive belt tensioner.
 - To install, tighten to 25 Nm (18 lb-ft).
3. To install, reverse the removal procedure.

ACCESSORY DRIVE BELT IDLER PULLEY - 4.0L SOHC

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner counterclockwise and remove the accessory drive belt from the accessory drive belt idler pulley.
2. Remove the bolt and the accessory drive belt idler pulley.
 - To install, tighten to 47 Nm (35 lb-ft).
3. To install, reverse the removal procedure.

ACCESSORY DRIVE BELT IDLER PULLEY - 4.6L (3V)

REMOVAL AND INSTALLATION

Bullitt vehicles

1. Remove the air cleaner outlet tube. For additional information, refer to **INTAKE AIR DISTRIBUTION AND FILTERING** article.

All vehicles

2. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt from the accessory drive belt idler pulley.
3. Remove the bolt and the accessory drive belt idler pulley.
 - To install, tighten to 25 Nm (18 lb-ft).
4. To install, reverse the removal procedure.

ACCESSORY DRIVE BELT IDLER PULLEY - 5.4L (4V)

REMOVAL AND INSTALLATION**All idler pulleys**

1. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt from the coolant pump pulley.

Grooved idler pulley

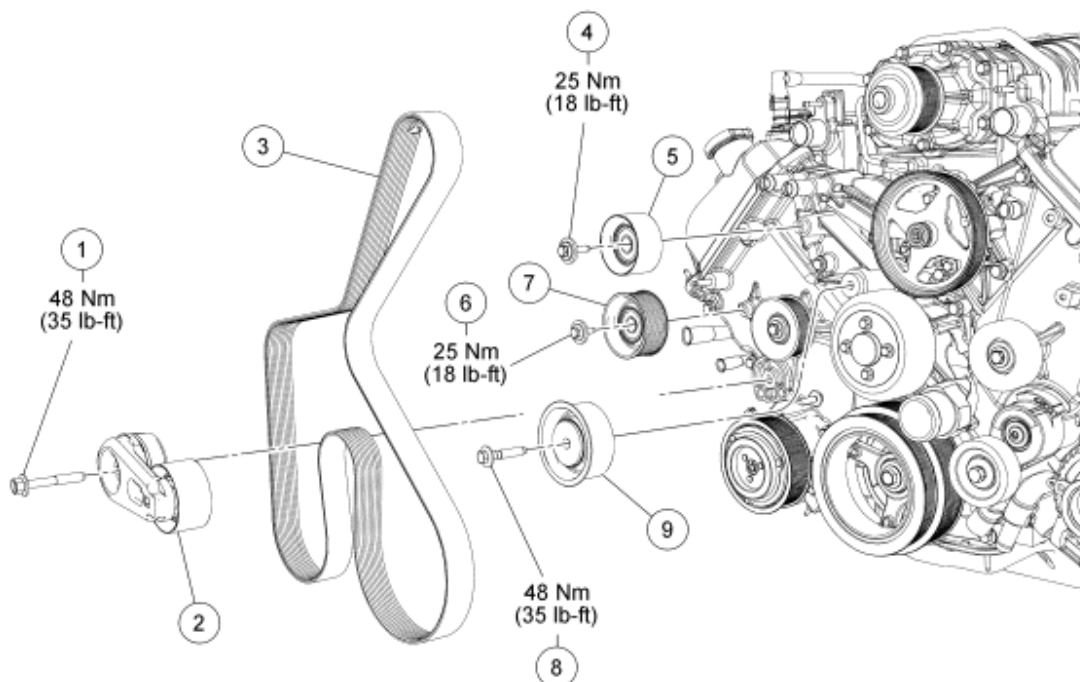
2. Remove the bolt and the grooved idler pulley.
 - To install, tighten to 25 Nm (18 lb-ft).

Smooth idler pulley

3. Remove the coolant tube bracket nut and position the coolant tube aside.
4. Remove the stud bolt and smooth idler pulley.
 - To install, tighten to 25 Nm (18 lb-ft).

All idler pulleys

5. To install, reverse the removal procedure.

SUPERCHARGER BELT, TENSIONER AND PULLEY - EXPLODED VIEW

N0071703

Fig. 17: Exploded View Of Supercharger Belt, Tensioner & Pulley With Torque Specifications

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Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Supercharger (SC) belt tensioner bolt (part of 6B209)
2	6B209	SC belt tensioner
3	8620	SC belt
4	W707288	SC belt smooth idler pulley bolt
5	19A216	SC belt smooth idler pulley
6	N808102	SC belt grooved idler pulley bolt
7	6C348	SC belt grooved idler pulley
8	N808296	SC belt heavy load idler pulley bolt
9	19A216	SC belt heavy load idler pulley

1. For additional information, refer to the procedures.

SUPERCHARGER BELT

REMOVAL AND INSTALLATION

1. Remove the accessory drive belt. For additional information, refer to **Accessory Drive Belt - 5.4L (4V)**.
2. Using a suitable belt tensioner release tool, rotate the Supercharger (SC) belt tensioner clockwise and remove the SC belt from the SC pulley.

NOTE: The SC belt is routed behind the SC belt tensioner.

3. Remove the SC belt tensioner bolt, the tensioner and the SC belt.
 - To install, tighten to 48 Nm (35 lb-ft).

NOTE: Refer to the illustration for correct SC belt routing.

4. To install, reverse the removal procedure.



Fig. 18: Rotating Supercharger (SC) Belt Tensioner Clockwise & Removing SC Belt From SC

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Pulley

Courtesy of FORD MOTOR CO.

SUPERCHARGER BELT TENSIONER

REMOVAL AND INSTALLATION

1. Using a suitable belt tensioner release tool, rotate the Supercharger (SC) belt tensioner clockwise and remove the SC belt from the SC pulley.

NOTE: The SC belt is routed behind the SC belt tensioner.

2. Remove the SC belt tensioner bolt and tensioner.
 - To install, tighten to 48 Nm (35 lb-ft).
3. To install, reverse the removal procedure.

SUPERCHARGER BELT IDLER PULLEY

REMOVAL AND INSTALLATION

All idler pulleys

1. Using a suitable belt tensioner release tool, rotate the Supercharger (SC) belt tensioner clockwise and remove the SC belt from the SC pulley.

Smooth idler pulley

2. Remove the bolt and the SC belt smooth idler pulley.
 - To install, tighten to 25 Nm (18 lb-ft).

Grooved idler pulley

3. Remove the bolt and the SC belt grooved idler pulley.
 - To install, tighten to 25 Nm (18 lb-ft).

Heavy load idler pulley

4. Loosen the coolant pump pulley bolts.
 - To install, tighten to 25 Nm (18 lb-ft).

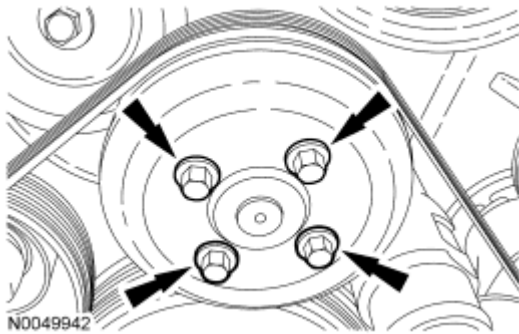


Fig. 19: Locating Coolant Pump Pulley Bolts
Courtesy of FORD MOTOR CO.

5. Using a suitable belt tensioner release tool, rotate the accessory drive belt tensioner clockwise and remove the accessory drive belt from the coolant pump pulley.
6. Remove the bolts and the coolant pump pulley.

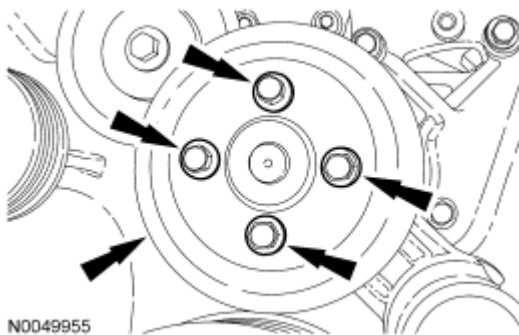


Fig. 20: Locating Coolant Pump Pulley Bolts
Courtesy of FORD MOTOR CO.

7. Remove the bolt and the SC belt heavy load idler pulley.
 - To install, tighten to 48 Nm (35 lb-ft).

All idler pulleys

8. To install, reverse the removal procedure.