

2001 Ford Mustang V6-3.8L VIN 4

Vehicle > Technical Service Bulletins

A/T - 4R70W CLUNK NOISE ON 2ND TO 1ST GEAR DOWNSHIFT

Article No.

01-13-7

07/09/01

^ NOISE - "CLUNK" NOISE HEARD ON 2-1
DOWNSHIFT VEHICLES EQUIPPED WITH 4R70W
AUTOMATIC TRANSMISSION

^ TRANSMISSION - 4R70W - "CLUNK" NOISE HEARD
FROM TRANSMISSION ON 2-1 DOWNSHIFT

FORD:

1999-2001 CROWN VICTORIA, MUSTANG

1999 F-250 LD

1999-2001 E SERIES, EXPEDITION, EXPLORER, F-150

LINCOLN:

1999-2001 TOWN CAR

MERCURY:

1999-2001 GRAND MARQUIS, MOUNTAINEER

ISSUE

Some vehicles equipped with a 4R70W automatic transmission may exhibit a "clunk" noise during the 2-1 downshift event. The "clunk" noise will be consistent in nature, and will occur during most 2-1 downshifts. This may be caused by a Planet Support Spring that is out of position.

ACTION

Check for the correct installation of the Planet Support Spring. If the spring is not installed correctly, the Planetary Gear Support will make contact with the transmission case during the 2-1 downshift, causing the "clunk" noise. Refer to the following Service Procedure for details.

SERVICE PROCEDURE

NOTE

THE "CLUNK" NOISE DESCRIBED IN THIS ARTICLE SHOULD NOT BE CONFUSED WITH HARSH/ROUGH 2-1 DOWNSHIFT CONDITION. IF A HARSH/ROUGH 2-1 SHIFT CONDITION IS PRESENT, FOLLOW NORMAL WORKSHOP MANUAL DIAGNOSTIC PROCEDURES.

1. Use Chassis Ears (Rotunda number 107-R2102 or equivalent) to verify the "clunk" noise is originating from the

transmission during the 2-1 downshift event.

NOTE

IF THE NOISE IS NOT ORIGINATING FROM THE TRANSMISSION DO NOT CONTINUE WITH THIS SERVICE PROCEDURE. USE THE CHASSIS EARS TO HELP PINPOINT THE ORIGIN OF THE NOISE, THEN DIAGNOSE AND REPAIR AS NEEDED.

2. Raise and support vehicle. Refer to Workshop Manual Section 100-02.
3. Check for correct torque on the following chassis & drivetrain components:
 - ^ Driveshaft to Pinion Flange fasteners
 - ^ Upper and Lower Control Arm fasteners (car applications)
 - ^ Rear Leaf Spring Fasteners (truck applications)
 - ^ Rear Shock Absorber fasteners
 - ^ Transmission Mount and Crossmember fasteners
4. If any discrepancies are found, correct and test drive vehicle to verify repair. If condition is not corrected, continue to Step 5.
5. Remove the transmission from the vehicle and disassemble down to and including the Center Support Retaining Ring. Refer to Workshop Manual section 307-01.

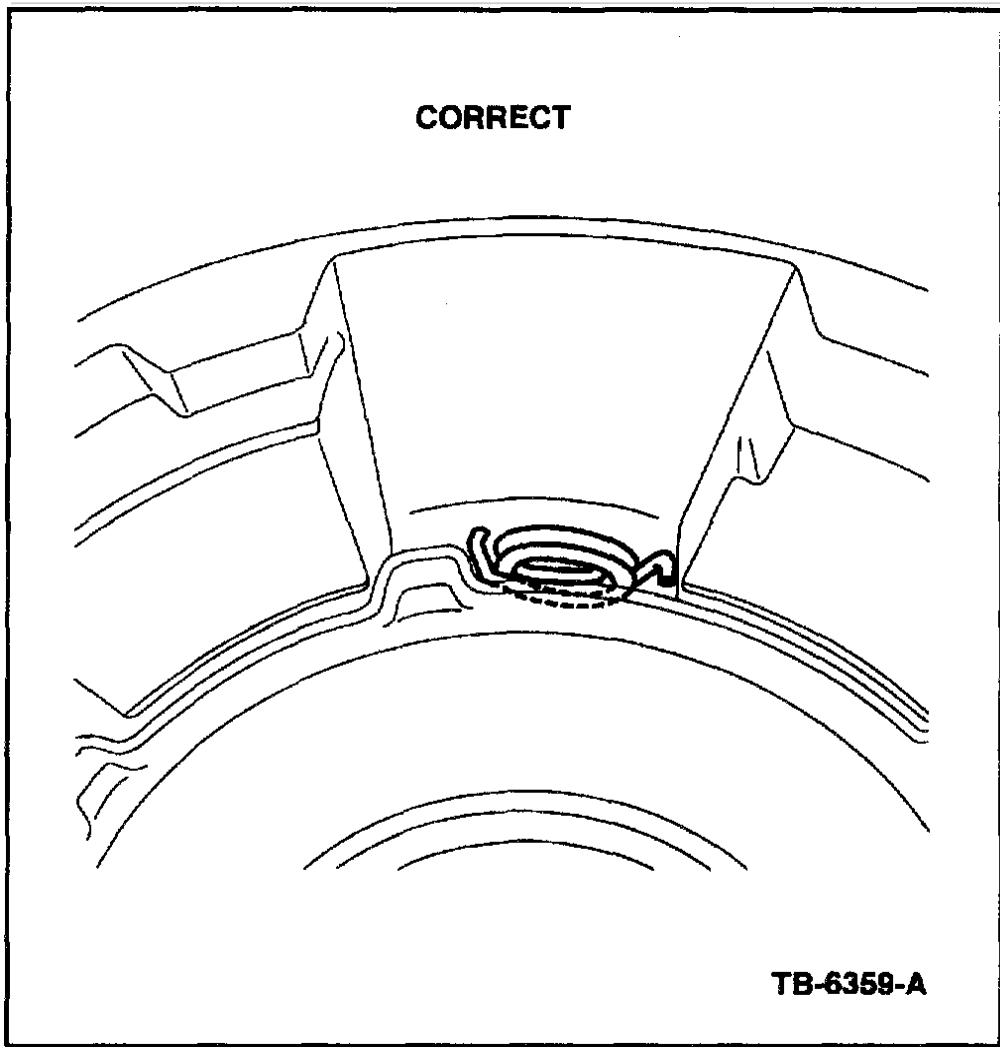


Figure 1

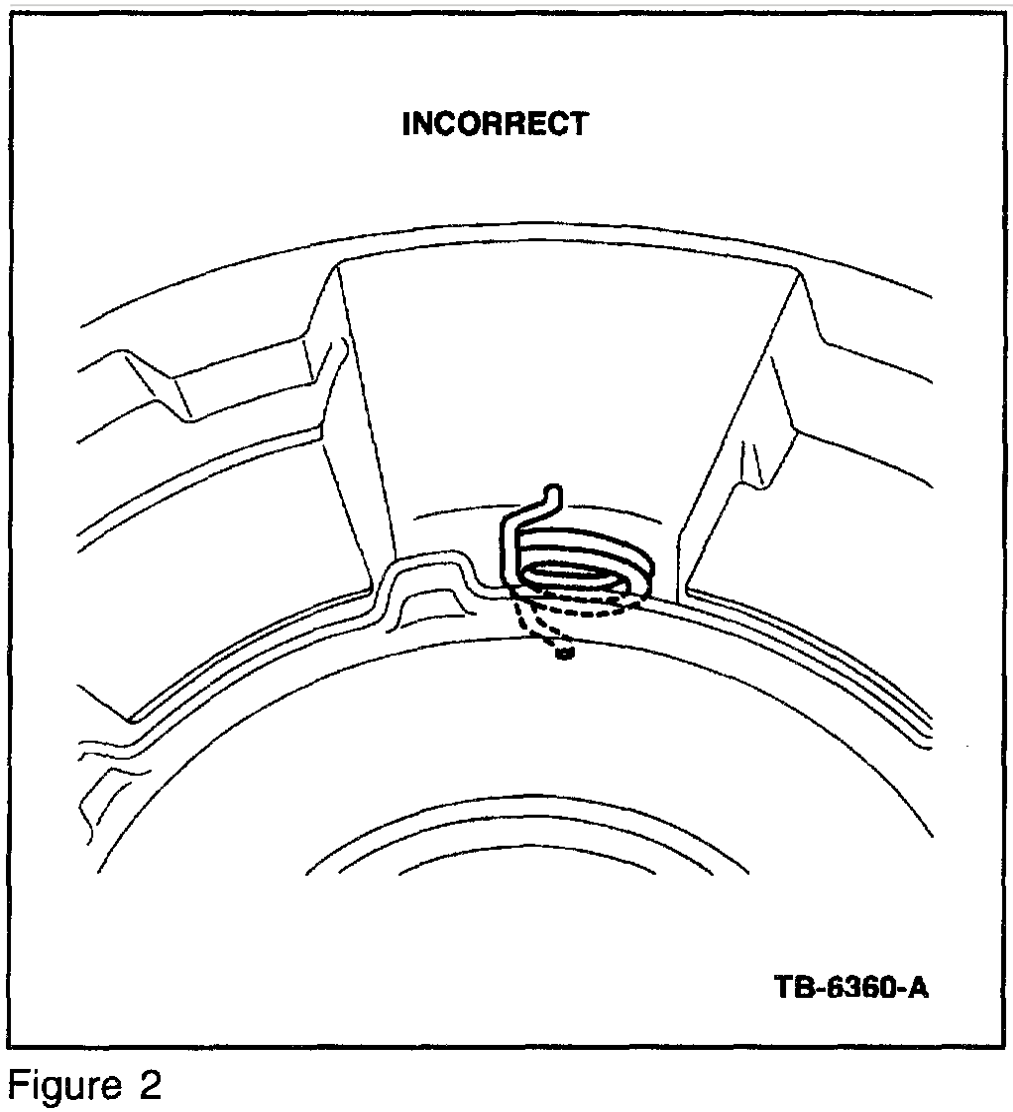


Figure 2

6. **Note** the position of the Planet Support Spring. Compare to the correct installation which is illustrated in Figure 1. One tang of the Planet Support Spring should be loaded against the transmission case. The other tang should be loaded against the Planetary Gear Support.

7. Unless the Planet Support Spring is damaged, it may be reinstalled in the transmission correctly. If the spring is damaged, replace with part number F5AZ-7F277-AA.

8. Install the Planet Support Spring in the position illustrated in Figure 1. Use a flat/wide tool, that will apply equal force across the spring. This will ensure the spring is installed squarely with the tangs loading the Transmission Case on one side and the Planetary Gear Support on the other.

9. Reassemble and install the transmission. Replace the Pump Gasket during reassembly. Part number F2VY-7A136-A.

10. Lower vehicle, refill fluid to correct level and verify repair.

PART NUMBER	PART NAME
F5AZ-7F277-AA F2VY-7A136-A	Planet Support Spring Transmission Pump Gasket

Parts Block

OTHER APPLICABLE ARTICLES: NONE WARRANTY STATUS: Eligible Under The Provisions Of Bumper To Bumper Warranty Coverage.

011307A	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001	6.5 Hrs.
011307B	Explorer/Mountaineer 4X2 Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission And Transfer Case) 1999-2001	8.0 Hrs.
011307C	Explorer/Mountaineer 4X4 Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 Town Car, Grand Marquis, Crown Victoria	5.9 Hrs.
011307D	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 Econoline 4.2L 4.6L MFI 5.4L	5.6 Hrs.

011307E	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 F-150 4X2 4.6L MFI, 5.4L	6.3 Hrs.
011307F	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 F-150 4X2 4.2L	6.4 Hrs.
011307G	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 F-150 4X4 4.6L MFI, 5.4L	8.1 Hrs.
011307H	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 F-150 4X4 4.2L	8.2 Hrs.
011307I	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 Mustang 3.8L	5.3 Hrs.
011307K	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 Mustang 4.6L MFI	5.7 Hrs.
011307L	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission) 1999-2001 Expedition 4X2	5.9 Hrs.
011307M	Check For The Correct Installation Of The Planet Support Spring (Includes Time To Remove And Install Transmission And Transfer Case) 1999-2001 Expedition 4X4	8.3 Hrs.

Operation/Description/Time

DEALER CODING

CONDITION BASIC PART NO. CODE 7F277 07

OASIS CODES: 502000, 504000, 597997