

- **CALIBRATION—MAXIMUM SPEED RECALIBRATION TO 126 MPH (202 KM/H)—CROWN VICTORIA POLICE VEHICLES BUILT THROUGH 7/30/1999 ONLY**
- **TRANSMISSION—4R70W—VIBRATION/FLUID LEAK AT EXTENSION HOUSING—CROWN VICTORIA POLICE VEHICLES BUILT THROUGH 7/30/1999 ONLY**

**Article No.
99-18-1**

FORD: 1999 CROWN VICTORIA

ISSUE

Some 1999 Crown Victoria Police vehicles may exhibit a vibration and/or transmission fluid leak from the extension housing seal area. This may be due to extended high speed operation which may cause the extension housing bushing or seal to walk/spin out due to excessive driveshaft flexing.

ACTION

Inspect the extension housing bushing. If the extension bushing/seal is spun and/or has walked out, replace the extension housing assembly and gasket. Verify the vehicle has “GNX” level rear springs and that the revised Metal Matrix Composite (MMC) driveshaft is installed. The revised driveshaft does not flex as much during sustained high speed operation and should reduce the possibility of fluid leaks. Refer to the following Service Procedure for details .

SERVICE PROCEDURE

1. Raise the vehicle on a hoist and inspect the transmission extension bushing for damage and transmission fluid leaking from the extension housing seal area. In addition, verify that the vehicle is equipped with the MMC driveshaft and the latest level coil springs (GNX). The MMC driveshaft can be identified by the pink/green stripes around the driveshaft tube. The aluminum driveshaft will have pink/blue/orange stripes.
2. If the bushing is found to be damaged, remove the driveshaft and transmission extension housing per the appropriate Workshop Manual Section.

3. Replace the Extension Housing Assembly (F5UZ-7A039-A) and Extension Housing Gasket (F7AZ-7086-A) following the procedure outlined in the Workshop Manual.
4. If the vehicle is equipped with an aluminum driveshaft, the driveshaft must be replaced with the revised MMC Driveshaft (XW7Z-4602-AA).


NOTE

THE INDEX MARKS ON THE OUTPUT SHAFT, DRIVESHAFT, AND REAR AXLE MUST BE ALIGNED. THE BALANCE MARK ON THE OUTPUT SHAFT AND THE BALANCE MARK ON THE DRIVESHAFT MUST BE ALIGNED (FIGURE 1). FURTHER, ALIGNMENT OF THE INDEX MARKS ON THE REAR DRIVESHAFT TUBE AND REAR AXLE FLANGE MUST BE PERFORMED (FIGURE 2).

5. If the vehicle is equipped with “EPS” level rear springs, replace the rear springs with the revised “GNX” level Springs (F8AZ-5560-GA). Refer to the Workshop Manual for details.
6. Using New Generation Star (NGS) Tester, check the Powertrain Control Module (PCM) calibration. Refer to Step 7.
7. Access PCM, select “MODULE I.D.”. If the module part number is XW7F-CE then the vehicle has the latest level calibration (9VNA-AA) with a vehicle maximum speed of 202 km/h (126 mph). Do not reprogram the PCM. If the module I.D. is not XW7F-CE, reprogram the PCM to the latest level (9VNA-AA) using an NGS Tester or Service Bay Diagnostic System (SBDS).
8. Verify transmission fluid level.

Article No. 99-18-1 Cont'd.

Obtain an Authorized Modifications Decal (FPS 8262 - obtainable through DOES II, 25/pkg) and list the date, dealer number, and summary of modifications performed. Select a prominent place adjacent to the Vehicle Emission Control Information Decal suitable for installing the Authorized Modifications Decal. Clean the area, install the decal, and cover it with a clear plastic decal shield.

 AUTHORIZED MODIFICATIONS	
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:	
<i>Reprogrammed Powertrain Control Module (PCM) per TSB 99-18-1.</i>	
<small>THESE MODIFICATIONS HAVE BEEN APPROVED, AS APPROPRIATE, BY EPA AND CARB.</small>	
DEALER NUMBER:	DATE:
CHANGE AUTHORITY:	
<small>FPS 8262 9/78 FORD MOTOR COMPANY PRINTED IN U.S.A.</small>	

PART NUMBER	PART NAME
F5UZ-7A039-A	Extension Housing Assembly
F7AZ-7086-A	Gasket
XW7Z-4602-AA	Driveshaft
F8AZ-5560-GA	Rear Coil Springs

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

OPERATION	DESCRIPTION	TIME
991801A	Replace Extension And Driveshaft Housing Assembly (Do Not Use With Operation B)	1.6 Hrs.
991801B	Replace Driveshaft Assembly Only If Required (Do Not Use With Operation A)	0.7 Hr.
991801C	Replace Rear Springs	0.9 Hr.
991801D	Inspect For Calibration	0.3 Hr.
991801E	Reprogram Powertrain Control Module (PCM)	0.3 Hr.

DEALER CODING

BASIC PART NO.	CONDITION CODE
4602	02
OASIS CODES: 501000, 503000, 504000, 510000, 597997, 614000, 614600, 703000, 703200, 703300, 703400	

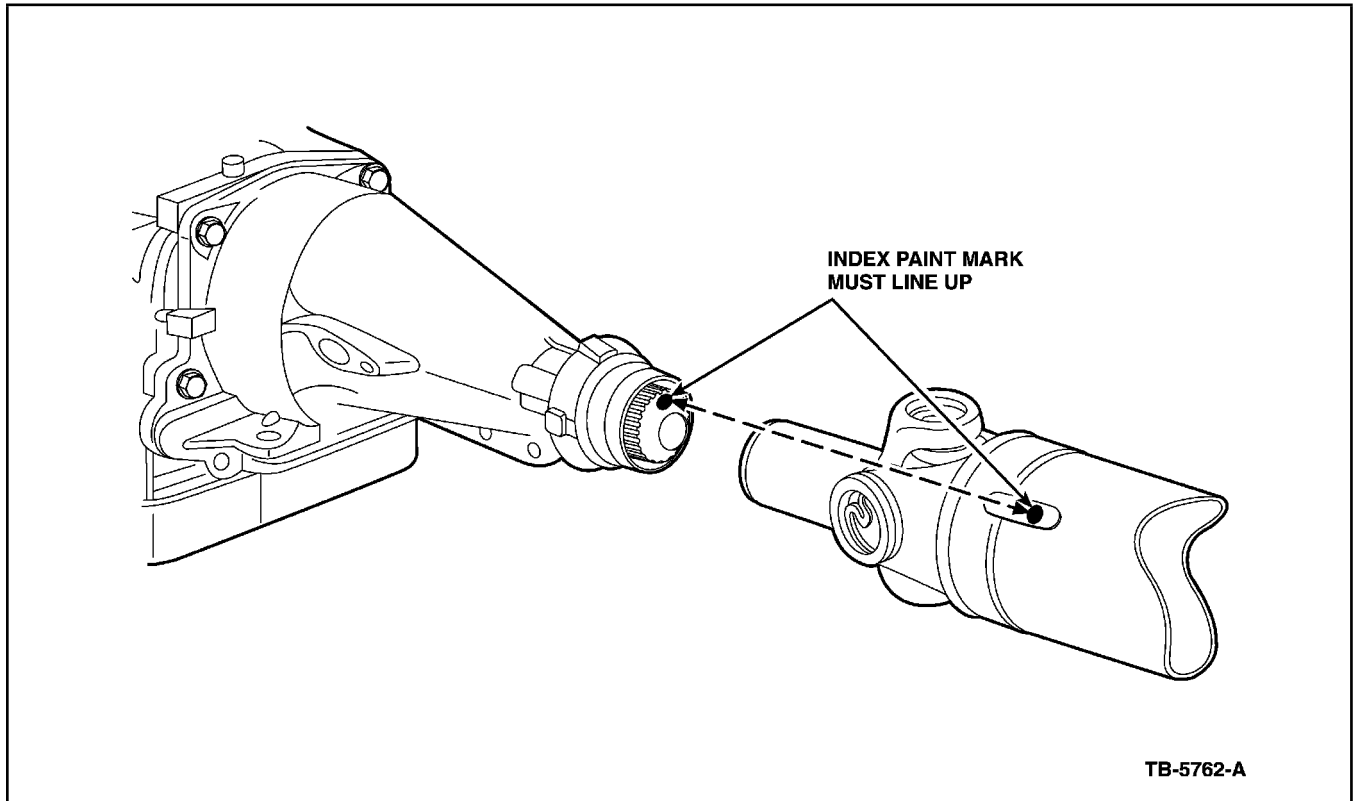


Figure 1 - Article 99-18-1

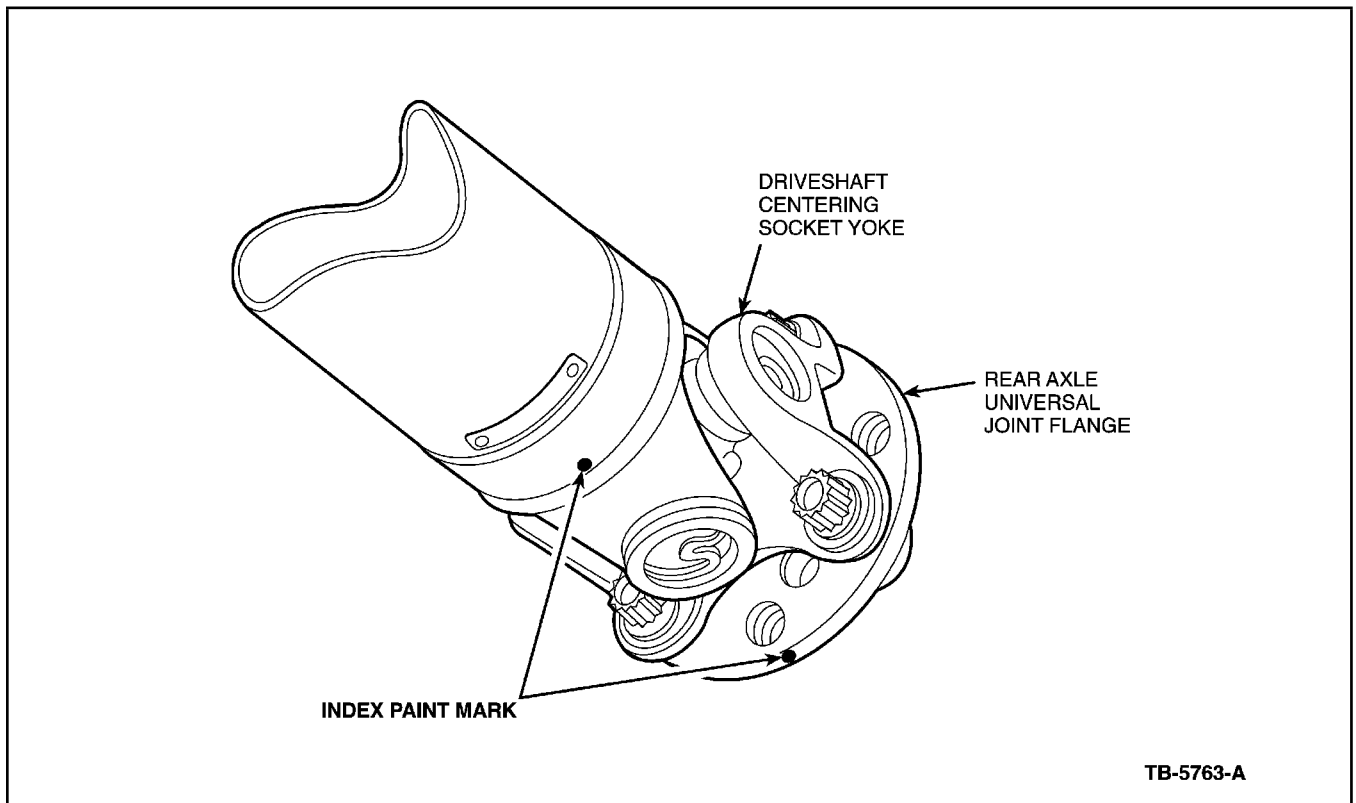


Figure 2 - Article 99-18-1