

Fig. 2F-4 Select Drive Vacuum Control System

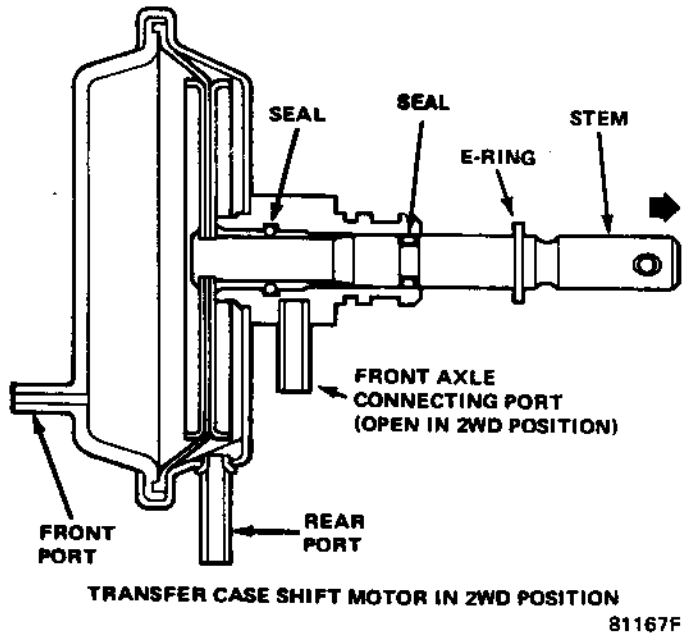
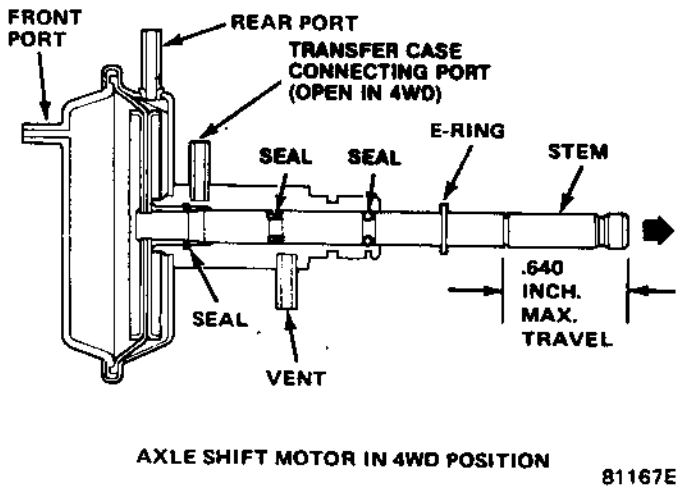
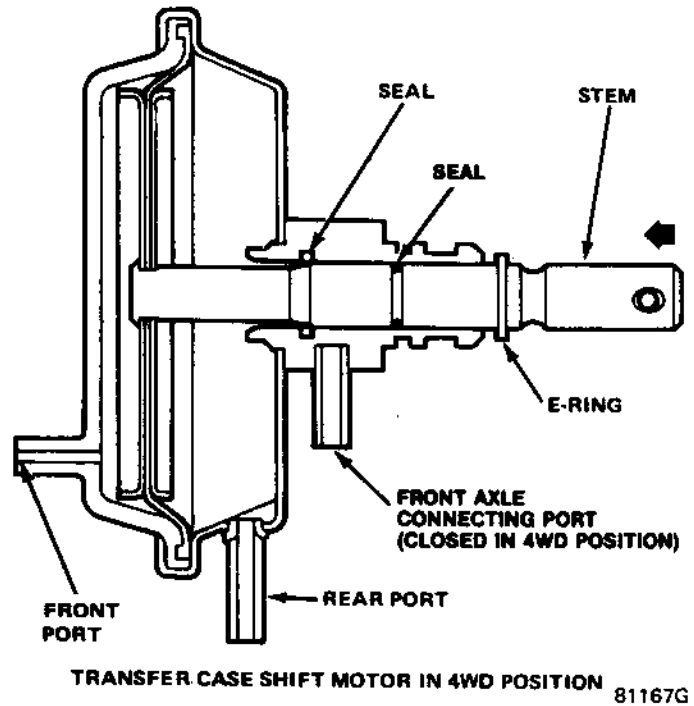
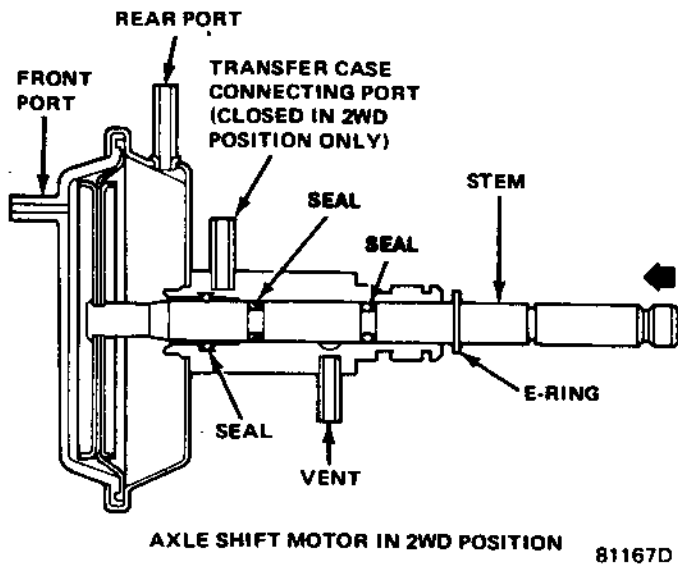


Fig. 2F-5 Axle Shift Motor

Fig. 2F-6 Transfer Case Shift Motor

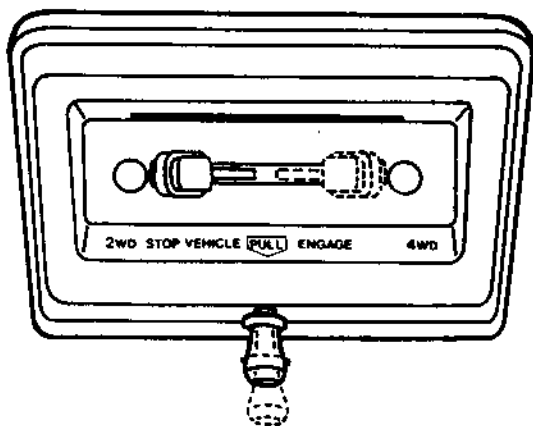


Fig. 2F-7 Mode Selector Assembly

LUBRICATION—EAGLE

Front Axle and Shift Housing

The lubricant capacities of the Select Drive System Front Axle are as follows:

- Axle Housing—2.5 pints U.S. (1.2 liters)
- Shift Housing—5 ounces U.S. (0.12 liters)

Recommended axle lubricant is SAE 85W-90 and correct fill level is to the bottom edge of the fill plug hole. For trailer towing applications, recommended lubricant is SAE 80W-140.

SERVICE DIAGNOSIS—EAGLE SELECT DRIVE

When diagnosing Select Drive System Malfunctions, refer to the shift motor function tests and service diagnosis charts provided in this chapter. The charts provide the procedures necessary to diagnose both mechanical and vacuum control system component malfunctions.

Transfer Case Shift Motor Function Test

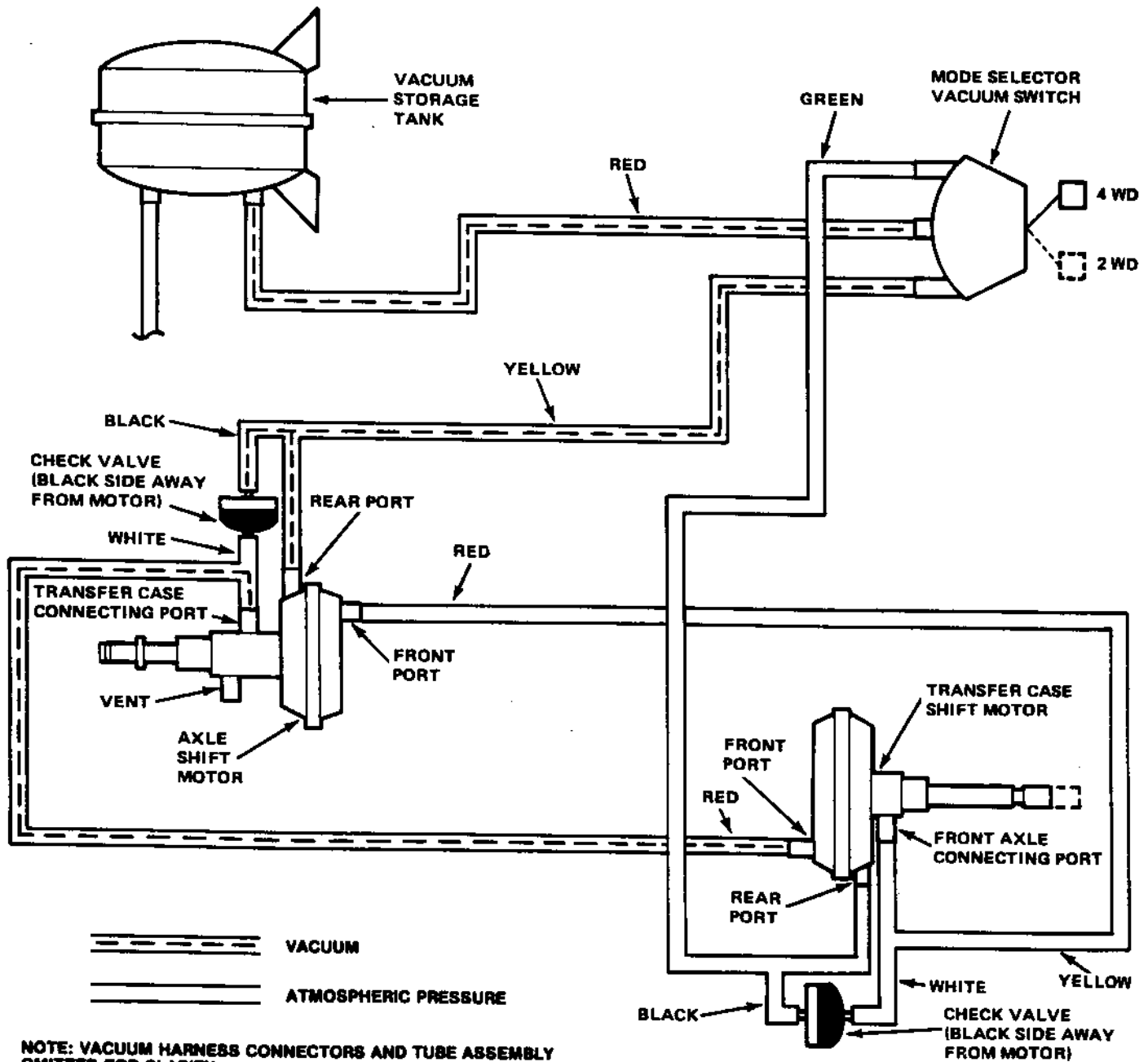
- (1) Disconnect vacuum harness from transfer case shift motor.
- (2) Connect Vacuum Pump J-23738 to shift motor front port. Refer to figure 5 for shift motor port location.

(3) Apply 15 inches of vacuum to shift motor and rotate rear propeller shaft to fully engage transfer case in four-wheel drive mode.

(4) Shift motor should maintain vacuum applied to front port for minimum of 30 seconds. If shift motor does not maintain vacuum, replace motor. If motor does maintain vacuum, proceed to next step.

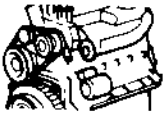
(5) Disconnect vacuum pump from shift motor front port. Connect pump to shift motor rear port, plug front axle connecting port, and apply 15 inches of vacuum to motor.

(6) Shift automatic transmission into Park. Shift manual transmission into first gear.



NOTE: VACUUM HARNESS CONNECTORS AND TUBE ASSEMBLY OMITTED FOR CLARITY.

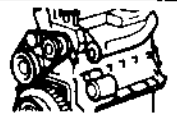
Fig. 2F-8 Four-Wheel Drive Mode Vacuum Diagram



ENGINES

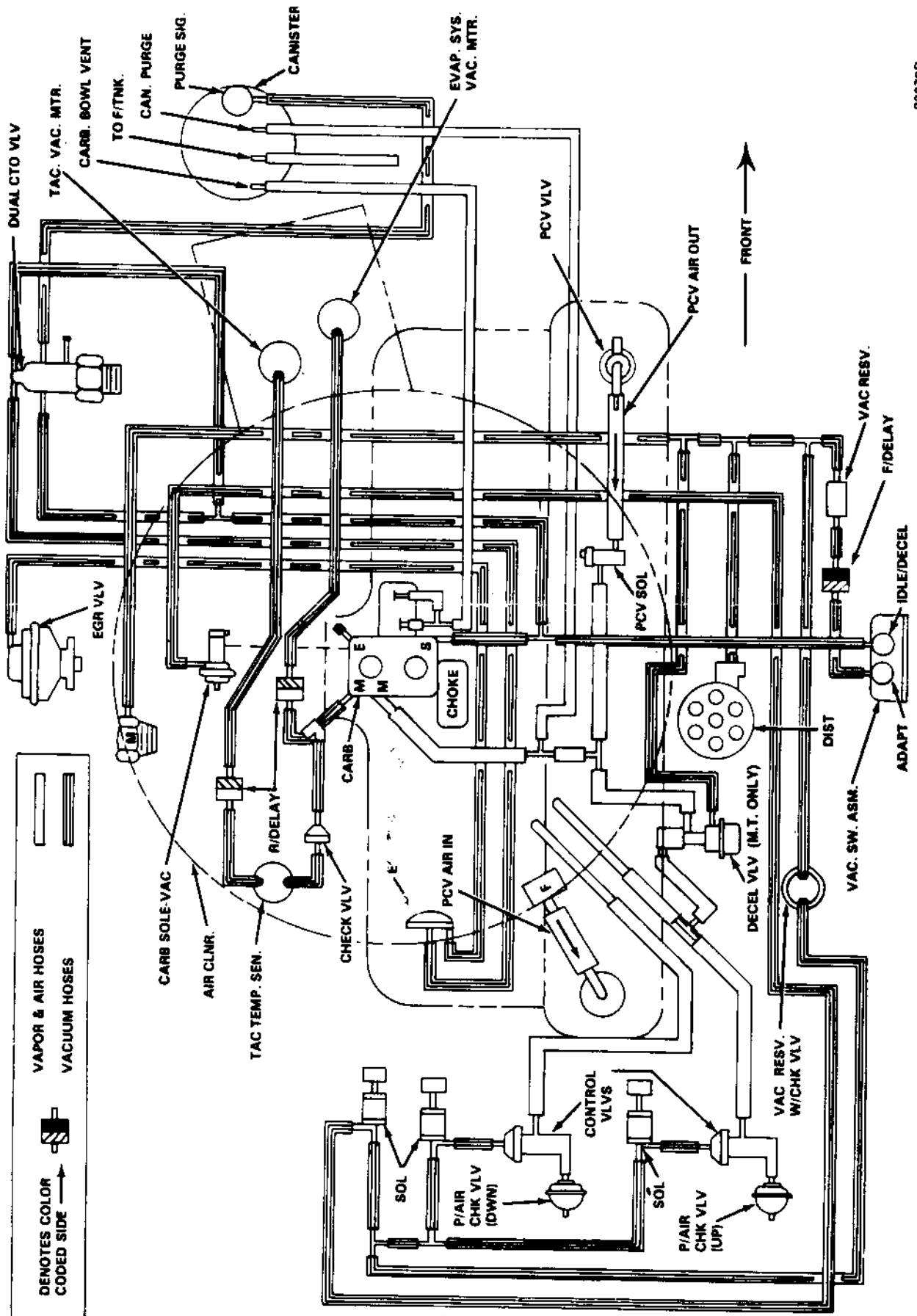
18

FUEL FEEDBACK SYSTEMS



SIX-CYLINDER ENGINE VACUUM DIAGRAM

SEE
I.S.
NOTES



83078D