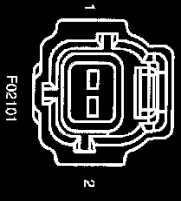


**C1072** (BK)

**9D930/12B637**

EGR vacuum regulator solenoid (94459)



Pin	Circuit	Circuit function
1	361 (FD)	Voltage supplied in Start and Run (overload protected)
2	360 (BN/PK)	EGR Vacuum Regulator (EVR), control

# EGR Electronic Vacuum Regulator Solenoid: Description and Operation

## EGR VACUUM REGULATOR SOLENOID

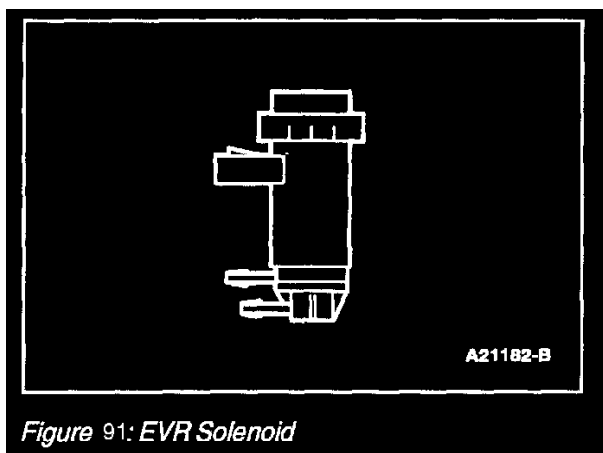
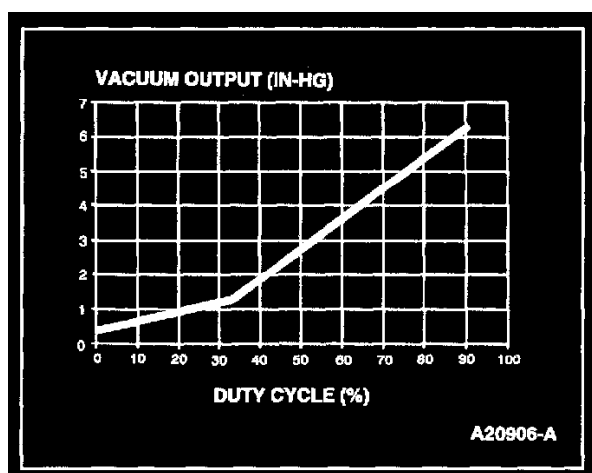


Figure 91: EVR Solenoid

### EVR Solenoid



Test Graph

EGR VACUUM REGULATOR SOLENOID DATA						
Duty Cycle (%)	Vacuum Output					
	Minimum		Nominal		Maximum	
	In-Hg	kPa	In-Hg	kPa	In-Hg	kPa
0	0	0	.38	1.28	.75	2.53
33	.55	1.86	1.3	4.39	2.05	6.9
90	5.69	19.2	6.32	21.3	6.95	23.47
EGR Vacuum Regulator Resistance: 26-40 Ohms						

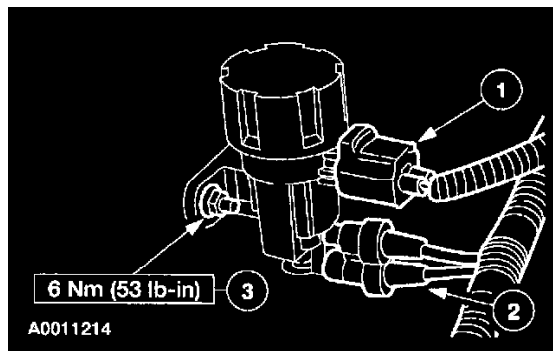
EGR Vacuum Regulator Solenoid Data Chart

The EGR Vacuum Regulator Solenoid (EVR), (Figure 90) is an electromagnetic device which is used to regulate the vacuum supply to the EGR valve. The solenoid contains a coil which magnetically controls the position of a disc to regulate the vacuum. As the duty cycle to the coil increases, the vacuum signal passed through the solenoid to the EGR valve also increases. Vacuum not directed to the EGR valve is vented through the solenoid vent to atmosphere. Note that at 0% duty cycle (no electrical signal applied), the EGR vacuum regulator solenoid allows some vacuum to pass, but not enough to open the EGR valve.

## EGR Electronic Vacuum Regulator Solenoid: Service and Repair

### REMOVAL

1. Disconnect the battery ground cable.
2. Remove the engine cover.



3. Remove the Exhaust Gas Recirculation (**EGR**) vacuum regulator solenoid.
  1. Disconnect the electrical connector.
  2. Disconnect the vacuum lines.
  3. Remove the bolts (nuts if applicable).

### INSTALLATION

1. To install, reverse the removal procedure.