

# 1974-79 EXHAUST EMISSION SYSTEMS

## Mazda Transmission Spark Delay Timing Control

### 1979 GLC With 5-Speed Transmission

#### DESCRIPTION

System is used on models with transistorized dual ignition timing system. This system consists of an igniter and an overdrive (5th gear) switch. Igniter controls ignition timing, such as advance or retard. Ignition timing retards when overdrive switch is on. By retarding timing when transmission is in any gear except overdrive (5th), oxides of nitrogen (NOx) emissions are reduced. When 5th gear is selected, switch is off and ignition timing is advanced.

#### IGNITION TIMING SPECIFICATIONS AS CONTROLLED BY SPARK TIMING SYSTEM <sup>1</sup>

Application	Federal	Calif.
Advance .....	11°BTDC	9°BTDC
Retard .....	7°BTDC	5°BTDC

<sup>1</sup> - Specifications are given at idle speed.

#### TESTING

##### OVERDRIVE SWITCH

Unplug overdrive switch connector (located on rear of transmission). Connect ohmmeter to switch terminals. Place gearshift lever in 4th gear. Continuity should exist (switch is on). Place gearshift lever in 5th gear. No continuity should exist (switch is off). If switch does test as indicated, it must be replaced.

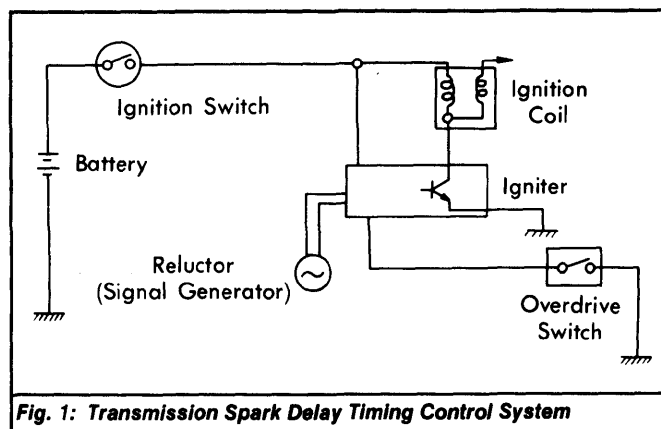


Fig. 1: Transmission Spark Delay Timing Control System