CRUISE CONTROL

Logical Tree Check Chart Starting Model Year 1976

Refer to Service Information No. 54/9, September, 1976.

- 3. Check if both brake lights are working.
- 4. Visually inspect the electrical and vacuum connections and the linkages.
- ↑ TESTING THE THROTTLE ACTUATOR 1. Disconnect plug of the T.A. 2. Measure resistance across the terminals of T.A. 3. Resistance should be 10-22 OHMS. Value incorrect value correct 1. Verify complaint. Change Throttle Actuator Check Vent Hose connection and 2. Check fuses. 2. Check vacuum hose connection for proper installation. installation improper connections correct install properly 1. Disconnect the vacuum line from the Throttle Actuator and connect vacuum gauge directly to vacuum line. 2. Let engine run at higher idle. (Approx. 1 min.) 3. Turn the engine off. vacuum constant vacuum drops 1. Check check-valve, vacuum lines and 1. Remove air filter. (except OM 617) vacuum system for leaks. See workshop 2. Connect vacuum pump with gauge directly manual. (Vacuum Syst. Heating A/C) to Throttle Actuator. 3. Connect one terminal of T.A. to 12 volts. Connect other terminal of T.A. to ground 5. Apply 0.3 (9' in. Hg.) atu vacuum. 6. Linkages, throttle and bowden cable should move freely. Linkages or Linkage Bowden cable sticking Bowden cable 1. Check vacuum drop. 1. Repair as necessary 2. Adjust Bowden cable 2. Allowable 100 (3 in Hg.) mbar/min. less than 100 mbar/min (see S.I.) or more than 100 mbar/min OK Change Throttle Actuator 1. Disconnect 12 volts from T.A. 2. Linkage has to move to idle 3. The vacuum gauge should show no visible vacuum drop for a period of one minute. Loss of vacuum NOTE:

Change Throttle Actuator

3. Connect negative lead to terminal 12 (-) of female plug and check voltage at terminals noted. Terminal # Switch position Voltage >11 V rest position 0 V >11 V accelerate press brake >11 V 10 memory >11 V decelerate >11 V >11 V rest position value correct value incorrect Change switch

B TESTING SWITCH, AMPLIFIER WIRE HARNESS

- 1. Install test wire harness. Part No. See page 7.
- 2. Connect volt meter.
- 3. Turn ignition on.
- 4. Actuate cruise control switch, brake and ignition switch as follows:

>11 volts b. accelerate c. press brake 0 volts >11 volts d. resume e. ignition off/on 0 volts f. deceleration >11 volts

values correct

values incorrect

Check electrical connection of brake switch, repair connection or change brake switch.

Temporarily change amplifier for testing. Repeat test once more.

- a. off 0 volts b. accelerate >11 volts c. press brake 0 volts
- >11 volts d. resume e. ignition off/on 0 volts

f. deceleration >11 volts value incorrect value correct

Change Amplifier

TESTING SWITCH

1. Disconnect plug from amplifier.

Turn on ignition and check voltage in female plug at terminals noted.

TESTING SENSOR

- 1. Disconnect plug of sensor.
- 2. Measure the resistance of sensor.

First version up to April, 76:-Second version, later than April, 76:-

Resistance should be 50 to 106 OHMS. Sensor integrated in speedometer. Resistance should be 650 to 1370 OHMS.

value incorrect

Change the sensor

> = more than