

## 1970-74 OLDSMOBILE & PONTIAC CRUISE CONTROL

Oldsmobile  
Pontiac

### TESTING

#### DESCRIPTION

Components of system are an engaging switch located in turn signal lever, a regulator assembly and a vacuum servo mounted in engine compartment. System is governed directly by car speed.

#### OPERATION

When car is accelerated to desired speed, system is activated by depressing set-speed button in end of turn signal lever. To change setting to a new speed (higher or lower), depress and hold in set-speed button, either accelerate or decelerate to desired speed and release button. Speed will be maintained without pressure on accelerator pedal until brake pedal is depressed, ignition switch is turned "OFF", or set-speed button is held in until car speed drops below 30 MPH. System will then return to manual control and it will be necessary to repeat above procedure to again place unit in operation.

#### TROUBLE SHOOTING

##### SYSTEM DOES NOT ENGAGE

Fuse blown, brake switch out of adjustment, no current to terminal No. 2, engaging switch inoperative, faulty valve body and magnet assembly, faulty low speed switch.

##### SYSTEM DOES NOT DISENGAGE WITH BRAKE PEDAL

Improper brake release switch adjustment. Defective brake release switch. Faulty valve body and magnet assembly.

##### SYSTEM RE-ENGAGES WHEN BRAKE RELEASED

Faulty engaging switch. Terminal No. 1 grounded.

##### CARBURETOR DOES NOT RETURN TO NORMAL IDLE

Faulty Cruise Control linkage cable. Improper accelerator linkage adjustment. Weak or disconnected throttle return spring.

##### PULSATING ACCELERATOR PEDAL

Speedometer cable or drive cable kinked.

##### SYSTEM DOES NOT CONTROL AT SELECTED SPEED

Faulty vacuum servo or vacuum hose. Faulty governor assembly.

##### SYSTEM CONTROLS SPEED 3 OR MORE MPH ABOVE OR BELOW SELECTED SPEED

Improper centering spring adjustment.

#### VACUUM SERVO LEAK TEST

Disconnect vacuum hose at servo. Compress servo and place thumb over vacuum tube on end plate. Bellows should remain compressed, if not servo assembly is leaking and should be removed for service.

#### ENGAGEMENT SWITCH TEST

**Oldsmobile** — Turn ignition switch to accessory position. Using test lamp, touch one test lamp probe to terminal No. 2 and other probe to terminal No. 3. Lamp should light. Push engaging switch button all the way in and light should go out. If light does not go out, replace switch. Touch one test lamp probe to terminal No. 1 and other probe to terminal No. 3. Lamp should not light. If lamp lights, replace switch. Push engaging switch in slowly. Lamp should light when first depressed (first detent) and go out when fully depressed.

**Pontiac** — Check for blown fuse, if fuse good, place ignition switch in accessory position and connect a test lamp to blue wire at regulator connector. If test lamp does not light, proceed with Test "A", if lamp lights, proceed with Test "B".

**Test "A"** — Connect test lamp from blue wire at 3-wire connector on steering column to ground. If lamp lights, check for open circuit in blue wire between connector and regulator. If lamp does not light, connect test lamp from brown wire at steering column connector to ground. If lamp lights, replace engagement switch. If lamp does not light, connect test lamp from each brown wire at brake switch to ground. If lamp lights in both instances, check for open circuit in wire to steering column connector. If lamp lights for one wire only, replace brake switch. If lamp does not light in either case, check for open circuit in wire to fuse block.

**Test "B"** — 1) Connect test lamp from black wire at regulator to ground. If lamp does not light, depress engagement switch fully and proceed to Step 2. If lamp did light, disconnect 3-wire connector at steering column and connect test lamp from black wire at connector to ground. If lamp lights, replace regulator. If lamp does not light, replace engagement switch.

2) If lamp does not light or lights and does not go out at full in position, replace engagement switch. If lamp lights and goes out at full in position, insert jumper wire between brown wire and blue wire at steering column connector. Connect test lamp from black wire to ground and depress engagement switch fully.

3) If test lamp does not light or lights and goes out with switch fully depressed, replace engagement switch. If test lamp lights and stays on, hold switch button in and press brake pedal. If lamp stays on, replace brake switch. If lamp goes out, system electrically good.

#### ADJUSTMENTS

**Brake Release Switch (Oldsmobile)** — Insert switch into tubular clip until switch body seats on tubular clip. Pull brake pedal rearward against internal pedal stop. Switches will be moved in tubular clip providing proper adjustment.

# Automatic Speed Controls

## 1970-74 OLDSMOBILE & PONTIAC CRUISE CONTROL (Cont.)

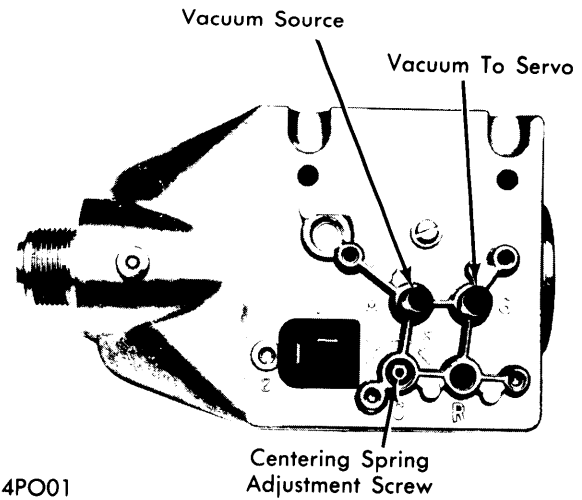
**Brake Release Switch (Pontiac)** — Apply brake pedal and push both stop light and brake release switches forward as far as possible. Pull pedal forcibly rearward to adjust switches.

**CAUTION** — Do not move adjustment screw marked "R". This is a vacuum restriction adjustment screw and is pre-set at factory.

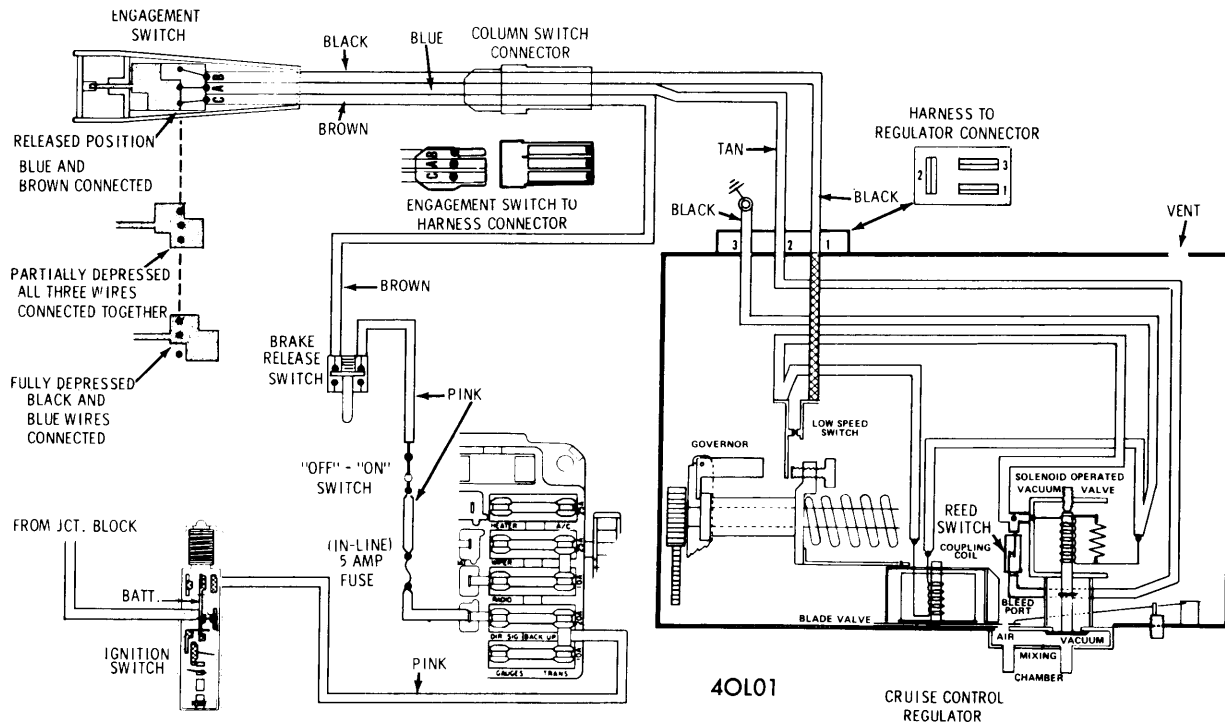
**Chain Linkage (Pontiac)** — With engine running at slow idle, and anti-stall plunger backed off so it does not affect engine speed, hook chain to accelerator linkage. Pull chain tight, loosen by length of one ball, and install chain clip.  
**NOTE** — When pulling chain tight do not pull throttle open.

**Servo Rod (Oldsmobile)** — With carburetor at correct idle speed adjustment and in slow idle position with engine not running, adjust servo relay rod to obtain minimum slack without disturbing slow idle.

**Centering Spring (All Vehicles)** — If Cruise Control holds speed three or more MPH above that selected, turn centering spring adjusting screw (on regulator) toward "S"  $\frac{1}{32}$  of a turn (Oldsmobile) or  $\frac{1}{8}$  of a turn (Pontiac) or less. If Cruise Control holds speed three or more MPH below that selected, turn centering screw (by amounts listed above) toward "F".



**ADJUSTMENT SCREW IDENTIFICATION**



**OLDSMOBILE CRUISE CONTROL ELECTRICAL CIRCUIT (PONTIAC SIMILAR)**