

ECONOCRUISE TESTER INSTRUCTIONS  
JAGUAR CRUISE CONTROL



1. INTRODUCTION

Lamps, (1) to (9), check continuity of all wiring as follows and test switch functions. RESUME, BRAKE-(from pedal action), NEUTRAL (from gear selector). They also indicate the supply and continuity of the system fuse.

Lamps, (10) and (11), indicate output from the Electronic Controller under operating conditions with the system engaged. Two associate push buttons allow manual operation of the Throttle Actuator, with lamp indication.

Lamp, (12), indicates a speed input signal.

2. CONNECTION DETAILS

The Test Unit is connected between the Electronic Controller and the Cruise Control System wiring loom installed in the car.

- 2a) Disconnect the Electronic Controller connector plugs.
- 2b) Connect the Test Unit 9 pin plug to the system 9 pin connector.
- 2c) Connect the speed input two pin connector to the system input connector.

3. STATIC CHECK

Set Test Unit switch to STATIC (13).

Continuity:

- 3a) Set gearshift to NEUTRAL or PARK
- 3b) Switch on ignition (ensure air conditioner etc. is turned off)
- 3c) Speed Control Master ON/OFF Switch to ON
- 3d) Check that the following lamps are alight indicating correct continuity:-
  - 1 CONTROL valve solenoid and wiring
  - 2 DUMP valve solenoid and wiring
  - 5 BRAKE LIGHTS and wiring
  - 7 BRAKE SUPPLY wiring
  - 8 NEUTRAL OVERRIDE
  - 9 SUPPLY wiring

Switch Functions:

- 3e) The "NEUTRAL OVERRIDE" lamp (8) will light in all positions except Drive ('D' Position).
- 3f) Press control switch to the SET position. ENGAGE lamp (3) should light.
- 3g) Press Master ON/OFF Switch to RESUME position. RESUME lamp (4) should light.
- 3h) Press the brake pedal slowly. First BRAKE LIGHTS lamp (5) should go out and the BRAKE lamp (6) should light.

With further depression of the brake pedal the CONTROL lamp (1) and DUMP lamp (2) will go out.

NOTE: If both lamps light together check for an open circuit in the wire to the brake lamp side of the brake switch. If the brake lamps and wiring are not continuous the system will not function.

The static wiring and switch testing is now complete.

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OVER.....

4. ACTUATOR CHECK (Engine Running)

- 4a) Test Unit switch (T4) to RUN.
- 4b) Start engine, select NEUTRAL or PARK with handbrake on.
- 4c) Depress DUMP button. DUMP lamp (11) should light, indicating supply feed to Actuator dump valve.
- 4d) Hold the DUMP button and simultaneously press the CONTROL button. CONTROL lamp (10) should light and the engine speed should increase as the Actuator opens the throttle. If not, check Actuator vacuum hose and throttle cable connections.

CAUTION: This operation causes engine rev's to build up rapidly, be sure to release buttons quickly when operation is established.

- 4e) Release the DUMP button.
- 4f) Switch off engine. The Actuator is functioning correctly.

5. DRIVING CHECK (Tester Connected)

Speed Input:

- 5a) Start the vehicle and drive slowly. INPUT lamp (12) should flicker at slow speeds indicating the presence of a speed input signal from the transducer and driveshaft magnets. This will occur whilst the vehicle is moving.

Electronic Controller:

- 5b) Drive to about 50mph on a quiet, flat road. Press system SET switch until the throttle pedal is felt to move. Release the switch and remove foot from throttle pedal. DUMP lamp (11) should light.
- 5c) The vehicle should cruise at + 1 mph of the speed selected. If not, remove the rubber grommet from the side of the Controller and adjust the set speed potentiometer with a small screwdriver. Clockwise to increase. Counter-clockwise to decrease the cruise speed.  
Pressing the SET switch quickly several times should have very little effect on the cruise speed, if the adjustment has been carried out correctly.
- 5d) CONTROL lamp (10) should be flickering. Travelling uphill the lamp should become brighter, and downhill should become dimmer.
- 5e) Brake car to about 10 mph below the cruise speed. Both DUMP and CONTROL lamps should go out as brake is applied.
- 5f) Press system Master ON/OFF switch momentarily to RESUME position. DUMP and CONTROL lamps should come fully on, and the car should accelerate back to original cruise speed.  
Just before this speed is reached the CONTROL lamp will again begin to flicker as the system resumes control of the vehicles speed.
- 5g) Press the brake pedal and allow the car to slow down to about 15 mph. Accelerate slowly, using the throttle pedal whilst pressing Master ON/OFF switch momentarily to RESUME position at about 1 mph intervals. As the Low Speed Lock Out point is reached (about 22 mph) the DUMP and CONTROL lamps should come fully on, and the car should accelerate back to the original cruise speed.
- 5h) Move gear selector out of Drive. DUMP and CONTROL lamps should go out.
- 5i) Re-engage Drive and press RESUME. DUMP and CONTROL lamps should come on, and the car return to control speed.

After completion of test, remove Tester from vehicle and re-connect Electronic Controller to system connectors.