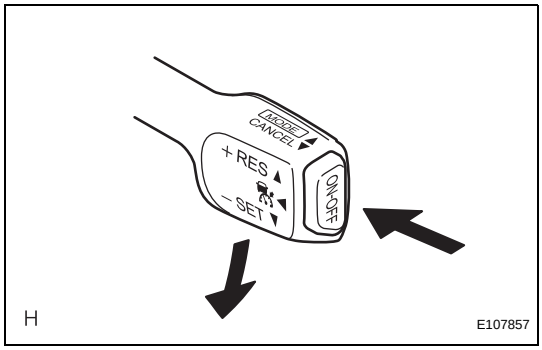
ROAD TEST

1. PROBLEM SYMPTOM CONFIRMATION

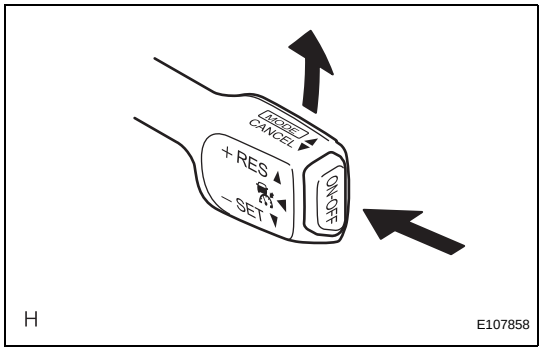
HINT:

The dynamic laser cruise control system has two cruise control modes: the constant speed control mode and vehicle-to-vehicle distance control mode.

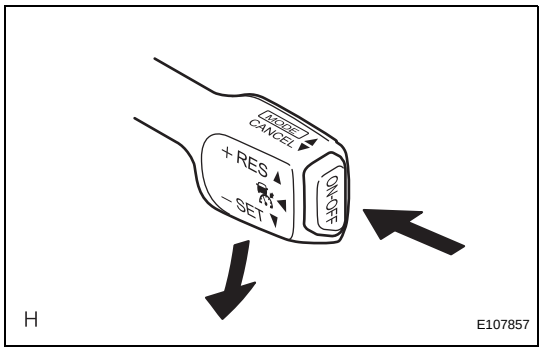
- The vehicle-to-vehicle distance control mode is always selected when starting up the dynamic laser cruise control system.
- Operation of the constant speed control mode is the same as that for a conventional cruise control system.



(a) Inspect the SET function.
  (1) Turn the main switch on.
  (2) Drive at the required speed (45 km/h (28 mph) or higher).
  (3) Push the cruise control main switch to - (COAST)/SET.
  (4) After releasing the switch, check that the vehicle cruises at the set speed.

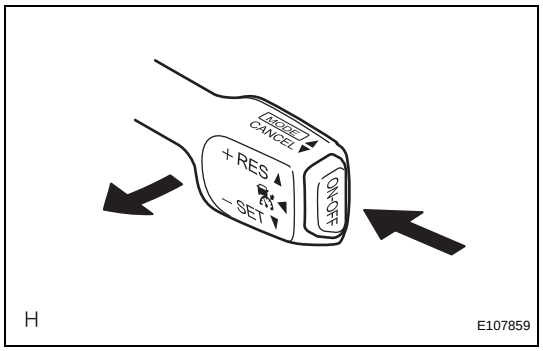


(b) Inspect the + (ACCEL) function.
  (1) Turn the main switch on.
  (2) Drive at the required speed (45 km/h (28 mph) or higher).
  (3) Push the cruise control main switch to - (COAST)/SET.
  (4) Check that vehicle speed increases while the cruise control main switch is pushed to + (ACCEL)/RES (RESUME), and that the vehicle cruises at the newly set speed when the switch is released.
  (5) Push the cruise control main switch to + (ACCEL)/RES (RESUME) and then release it immediately. Check that vehicle speed increases* (tap-up control).
  HINT:
  *: Constant speed control mode: increases by 1.6 km/h (1.0 mph); vehicle-to-vehicle distance control mode: increases by 5 mph (for USA) or 5 km/h (for Canada).

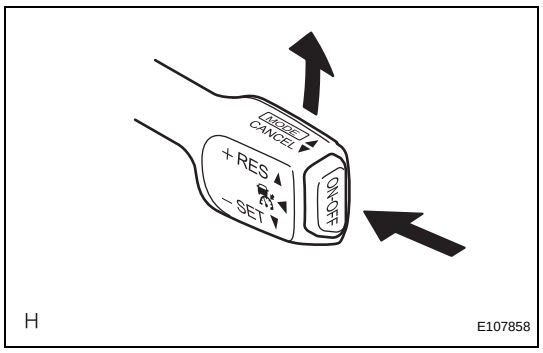


(c) Inspect the - (COAST) function.
  (1) Turn the main switch on.
  (2) Drive at the required speed (45 km/h (28 mph) or higher).
  (3) Push the cruise control main switch to - (COAST)/SET.
  (4) Check that vehicle speed decreases while the cruise control main switch is pushed to - (COAST)/SET, and that the vehicle cruises at the newly set speed when the switch is released.

(5) Push the cruise control main switch to - (COAST)/SET, and then release it immediately. Check that vehicle speed decreases* (tap-down control).
HINT:
*: Constant speed control mode: decreases by 1.6 km/h (1.0 mph); vehicle-to-vehicle distance control mode: decreases by 5 mph (for USA) or 5 km/h (for Canada).

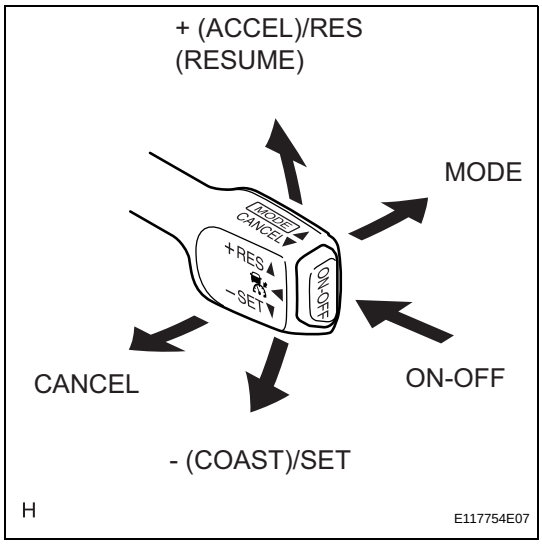


(d) Inspect the CANCEL function.
(1) Turn the main switch on.
(2) Drive at the required speed (45 km/h (28 mph) or higher).
(3) Push the cruise control main switch to - (COAST)/SET.
(4) When performing any one of the following, check that the cruise control system is canceled and that the normal driving mode is reset.
- Depressing the brake pedal
- Moving the shift lever from the D or 4 to the N, 3, 2 or L position
- Turning the main switch off (the stored vehicle speed in the ECM is not maintained.)
- Pulling the cruise control main switch to CANCEL



(e) Inspect the RES (RESUME) function.
(1) Turn the main switch on.
(2) Drive at the required speed (45 km/h (28 mph) or higher).
(3) Push the cruise control main switch to - (COAST)/SET.
(4) Cancel the cruise control system by performing any of the above operations (other than turning the main switch off).
(5) After pushing the cruise control main switch to + (ACCEL)/RES (RESUME) at a driving speed of more than 40 km/h (25 mph), check that the vehicle resumes the speed set prior to the cancellation.
HINT:
The stored vehicle speed is retained even if vehicle speed drops below 40 km/h (25 mph) once. The previously stored vehicle speed can be resumed by pushing the cruise control main switch to + (ACCEL)/RES (RESUME) when vehicle speed returned to approximately 40 km/h (25 mph) or more.

CC

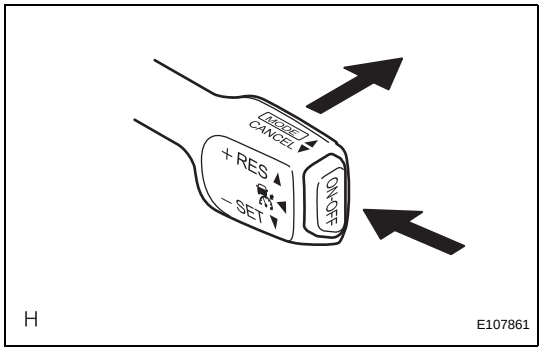


OPERATION CHECK

1. INPUT SIGNAL CHECK

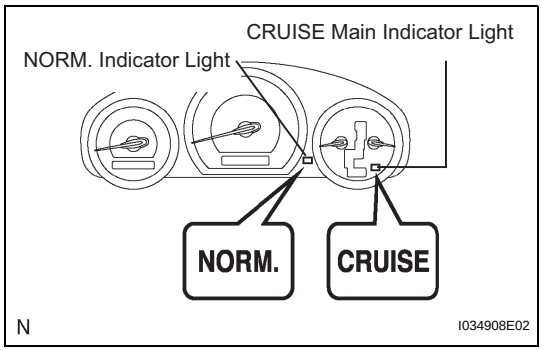
(a) Connect the intelligent tester to the DLC3.

(b) Check the cruise control main switch using the DATA LIST function in the intelligent tester (ON-OFF, CANCEL, - (COAST)/SET, + (ACCEL)/RES (RESUME), and MODE).



2. INSPECT MODE SWITCH

(a) Turn the ignition switch to the ON position.



(b) Turn the cruise control main switch on. Then push the main switch to MODE for 1 second or more to change to the constant speed control mode. Check that "NORM." is indicated on the display.

NOTICE:

Do not push any other switches before pushing the main switch to MODE. If another switch is pushed, turn the main switch off and repeat the procedure above.

HINT:

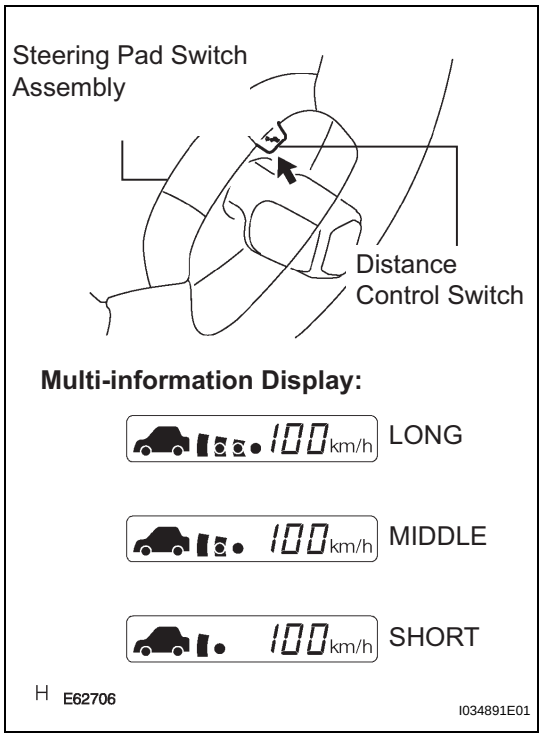
If a malfunction is detected, turn the ignition switch off and repeat the procedure above.

3. INSPECT STEERING PAD SWITCH ASSEMBLY

(a) Turn the ignition switch to the ON position.

(b) Turn the cruise control main switch on.

(c) Turn on the distance control switch of the steering pad switch.



(d) Check that the indication of the vehicle-to-vehicle distance, which is shown on the multi-information display on the combination meter, changes from long to middle to short in that order.
HINT:
The indication is automatically set to long each time the engine is started.

CC