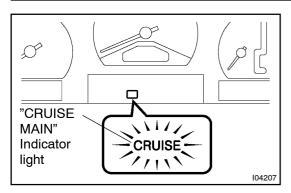
DI2V2-01



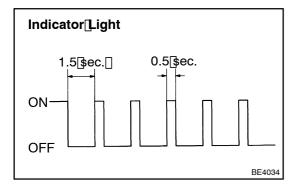
PRE-CHECK

1. ☐ DIAGNOSIS SYSTEM

- (a) Check he indicator.
 - (1) Turn the ignition switch to ON.
 - (2) Check[that[the[CRUISE[MAIN[indicator[tight[comes on when the cruise[control[main]switch]s[turned ON,[and[that[the[indicator[tight[goes[ff]when[the main]switch[is[turned[DFF.]

HINT:

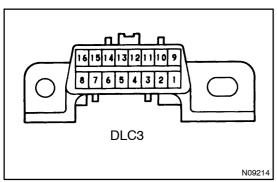
If the indicator check result is not normal, proceed to trouble shooting See page II-584) for the combination meter section.



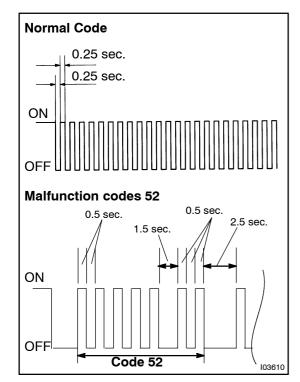
(b) ☐ Check The TDTC.

HINT:

Ifamalfunctionoccursinghespeedsensororactuator, etc. duringeruisecontroloriving, the ECU actuates AUTO CANCEL of the cruise controlorium of the driver of a malfunction. At the same time, the malfunction is stored in memory as a diagnostic trouble code.



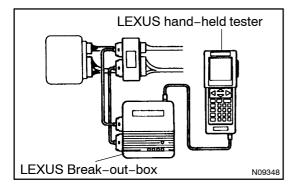
- (c) Output DTC using diagnosis check wire.
 - (1) Turn the ignition switch ON.
 - (2) Using SST, connect terminals Tc and E_1 of DLC3.
 - SST 09843-18020
 - (3) Read the DTC on the CRUISE MAIN indicator light.



HINT:

If the DTC is not output, inspect the diagnosis circuit.

As an example, the blinking patterns for codes; normal 52 are shown in the illustration.



LEXUS hand –held tester DLC3

2. ECU TERMINAL VALUES MEASUREMENT BY USING LEXUS BREAK-OUT-BOX AND LEXUS HAND-HELD TESTER

- (a) Hook up the LEXUS break-out-box and LEXUS hand-held tester to the vehicle.
- (b) Read the ECU input/output values by following the prompts on the tester screen.
- (c) Please refer to the LEXUS hand-held tester has a "Snapshot" function. This records the measured data and is effective in the diagnosis of intermittent problems.

3. USING LEXUS HAND-HELD TESTER

- (a) Hook up the LEXUS hand-held tester to the DLC3.
- (b) Monitor the ECU data by following the prompts on the tester screen.

HINT:

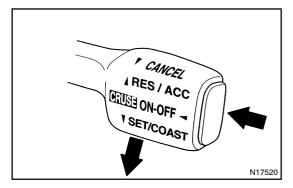
LEXUS hand-held tester has a "Snapshot" function which records the monitored data.

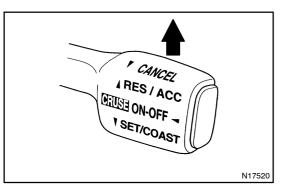
Please refer to the LEXUS hand-held tester operator's manual for further details.

4. DTC CLEARANCE

The following actions will erase the DTCs and freeze frame data.

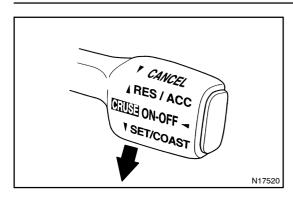
- (1) Operating the OBD II scan tool (complying with SAEJ1978) or LEXUS hand-held tester to erase the codes. (See the OBD II scan tool's instruction book for operating instructions.)
- (2) Disconnecting the battery terminals or EFI fuse.
- (a) After completing repairs, the DTC retained in memory can be cleared by removing the ECU-B fuse for 10 seconds or more with the ignition switch off.
- (b) Check that the normal code is displayed after connecting the fuse.



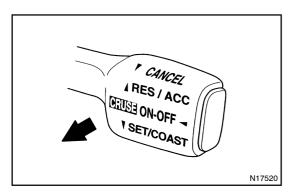


5. PROBLEM SYMPTOM CONFIRMATION (ROAD TEST)

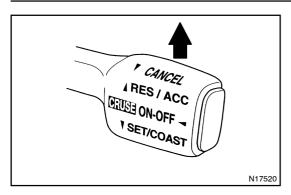
- (a) Inspect the SET switch.
 - (1) Push the main switch ON.
 - (2) Drive at a desired speed (40 km/h (25 mph) or higher).
 - (3) Press the control switch to the SET/COAST.
 - (4) After releasing the switch, check that the vehicle cruises at the desired speed.
- (b) Inspect the ACCEL switch.
 - (1) Push the main switch ON.
 - (2) Drive at a desired speed (40 km/h (25 mph) or higher).
 - (3) Check that the vehicle speed increases while the control switch is turned to RES/ACC, and that the vehicle cruises at the set speed when the switch is released.
 - (4) Momentarily press the control switch upward in the RES/ACC and then immediately release it. Check that the vehicle speed increases by about 1.5 km/h (Tap-up function).



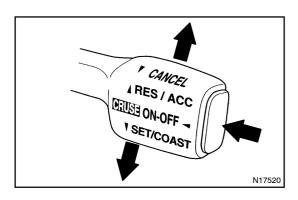
- (c) Inspect the COAST switch.
 - (1) Push the main switch ON.
 - (2) Drive at a desired speed (40 km/h (25 mph) or higher).
 - (3) Check that the vehicle speed decreases while the control switch is turned to SET/COAST, and the vehicle cruises at the set speed when the switch is released.
 - (4) Momentarily press the control switch is turned to SET/COAST, and then immediately release it. Check that the vehicle speed decreases by about 1.5 km/h (Tap-down function).



- (d) Inspect the CANCEL switch.
 - (1) Push the main switch ON.
 - (2) Drive at a desired speed (40 km/h (25 mph) or higher).
 - (3) When operating one of the followings, check that the cruise control system is cancelled and that the normal driving mode is reset.
 - Depress the brake pedal
 - Shift to except D range (A/T)
 - Push the main switch OFF
 - Pull the cruise control switch to CANCEL



- (e) Inspect the RESUME switch.
 - (1) Push the main switch ON.
 - (2) Drive at a desired speed (40 km/h (25 mph) or higher).
 - (3) When operating one of the followings, check that the cruise control system is cancelled and that the normal driving mode is reset.
 - Depress the brake pedal
 - Shift to except D range (A/T)
 - Pull the cruise control switch to CANCEL
 - (4) After the control switch is turned to RES/ACC at the driving speed of more than 40 km/h (25 mph), check that the vehicle restores the speed prior to the cancellation.



6. INPUT SIGNAL CHECK (Using LEXUS hand-held tester)

- (a) Connect the LEXUS hand-held tester to DLC3
- (b) Check the control switch (MAIN, CANCEL, SET/COAST, RES/ACC)