DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

(a) Connect the intelligent tester to DLC3.
(b) Turn the ignition switch to the ON position.
(c) According to the display on the tester, read the "DATA LIST".

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
VEHICLE SPD	Vehicle speed / min.: 0 km/h (0 mph), max.: 255 km/h (158 mph)	Actual vehicle speed	-
MEMORY SPD	Stored vehicle speed / min.: 0 km/h (0 mph), max.: 200 km/h (124 mph)	Actual stored vehicle speed	-
THROTTLE	Required throttle opening angle / min.: 0°, max.: 125°	Actual required throttle opening angle	-
CRUISE CONTROL	Cruise control system active condition / ON or OFF	ON: Cruise control activated OFF: Cruise control deactivated	-
MAIN SW (MAIN)	Main SW signal (Main CPU) / ON or OFF	ON: Main switch ON OFF: Main switch OFF	"3"
MAIN SW (SUB)	Main SW signal (Sub CPU) / ON or OFF	ON: Main switch ON OFF: Main switch OFF	"3"
CCS READY M	Cruise control system standby condition (Main CPU) / ON or OFF	ON - OFF: Change ON/OFF each time main switch is pushed in.	"1"
CCS READY S	Cruise control system standby condition (Sub CPU) / ON or OFF	ON - OFF: Change ON/OFF each time main switch is pushed in.	"1"
CCS INDICATOR M	Cruise indicator signal (Main CPU) / ON or OFF	ON: "CRUISE" ON OFF: "CRUISE" OFF	"2"
CCS INDICATOR S	Cruise indicator signal (Sub CPU) / ON or OFF	ON: "CRUISE" ON OFF: "CRUISE" OFF	"2"
CANCEL SW	CANCEL SW signal / ON or OFF	ON: CANCEL SW ON OFF: CANCEL SW OFF	-
SET/COAST SW	-/SET SW signal / ON or OFF	ON: -/SET SW ON OFF: -/SET SW OFF	-
RES/ACC SW	+/RES SW signal / ON or OFF	ON: +/RES SW ON OFF: +/RES SW OFF	-
STP LIGHT SW M	Stop light SW signal (Main CPU) ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	-
STP LIGHT SW S2	Stop light SW signal (Sub CPU) ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	-
STP LIGHT SW S1	Stop light SW signal (Sub CPU) / ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	-
CCS OPER STATUS	Transmission range sensor signal / ON or OFF	ON: Shift lever in D or 4 position OFF: Shift lever except in D or 4 position	-

HINT:

"3" is OK but "1" is NG → ECM failure

"1" is OK but "2" is NG → DTC output or ECM failure
"3" is OK but cruise indicator does not turn on → CRUISE MAIN indicator, wire harness, or ECM failure

2. PERFORM ACTIVE TEST

HINT:
Using the intelligent tester to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Perform the ACTIVE TEST according to the display on the tester.
HINT:
The ignition switch must be turned on to proceed with the ACTIVE TEST using the intelligent tester.

Combination meter:

Tester Display	Test Part	Control Range	Diagnostic Note
CRUISE INDIC	CRUISE main indicator light	Indicator light BLINK / OFF	-