ON > PINPOINT TEST E : THE LH (LEFT-HAND) FRONT DOOR LOCK/MEMORY SET SWITCH ILLUMINATION IS INOPERATIVE OR ALWAYS ON

E1 PERFORM A NETWORK TEST

Ignition ON.

Using a diagnostic scan tool, perform a network test.

Does the DDM pass the network test?

Yes	GO to E2

No	DIAGNOSE a concern with the network. REFER to: Communications Network .

E2 VERIFY THE DOOR LOCK SWITCH FUNCTIONALITY

Actuate the door locks from the LH front door lock switch.

Can the doors be locked and unlocked from the LH front door lock switch?

Yes	If the switch illumination is inoperative, GO to E5 If the switch illumination is always on, GO to E3

No	DIAGNOSE a concern with the door locks. REFER to: Locks, Latches and Entry Systems .

E3 CHECK THE ILLUMINATION CIRCUIT FOR A SHORT TO VOLTAGE

Place the headlamp switch in the OFF position.

Ignition OFF.

Disconnect: LH Front Door Lock Switch C505 (without memory set).

Disconnect: LH Front Door Lock Switch C541 (with memory set).

Ignition ON.

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4		Ground

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2		Ground

Is any voltage present?

Yes	GO to E4

No	INSTALL a new LH front door lock switch. REFER to: Front Door Lock Control Switch .

E4 CHECK THE ILLUMINATION CIRCUIT FOR A SHORT TO VOLTAGE WITH THE DDM (DRIVER DOOR MODULE) DISCONNECTED

Disconnect: DDM C501A .

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4		Ground

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2		Ground

Is any voltage present?

Yes	REPAIR the circuit.

No	GO to E9

E5 CHECK THE ILLUMINATION CIRCUIT FOR VOLTAGE AT THE DOOR LOCK SWITCH

Ignition OFF.

Disconnect: LH Front Door Lock Switch C505 (without memory set).

Disconnect: LH Front Door Lock Switch C541 (with memory set).

Ignition ON.

Place a shop light over the ambient light sensor so illumination can reach maximum brightness.

Press the illumination dim up switch until the illumination reaches full brightness.

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4		Ground

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2		Ground

Is the voltage greater than 10 volts?

Yes	INSTALL a new LH front door lock switch. REFER to: Front Door Lock Control Switch .

No	GO to E6

E6 CHECK THE ILLUMINATION CIRCUIT FOR A SHORT TO GROUND

Ignition OFF.

Disconnect: DDM C501A .

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4	Ω	Ground

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2	Ω	Ground

Is the resistance greater than 10, 000 ohms?

Yes	GO to E7

No	REPAIR the circuit.

E7 CHECK THE ILLUMINATION CIRCUIT FOR AN OPEN BETWEEN THE DOOR LOCK SWITCH AND THE DDM (DRIVER DOOR MODULE)

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4	Ω	C501A-15

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2	Ω	C501A-15

Is the resistance less than 3 ohms?

Yes	GO to E8

No	REPAIR the circuit.

E8 CHECK THE DOOR LOCK SWITCH ILLUMINATION AND GROUND CIRCUITS FOR A SHORT TOGETHER

Measure:

Without memory set

Positive Lead	Measurement / Action	Negative Lead
C505-4	Ω	C505-2

With memory set

Positive Lead	Measurement / Action	Negative Lead
C541-2	Ω	C541-6

Is the resistance greater than 10, 000 ohms?

Yes	GO to E9

No	REPAIR the circuit.

E9 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

Disconnect and inspect all DDM and related in-line connectors.

Repair: