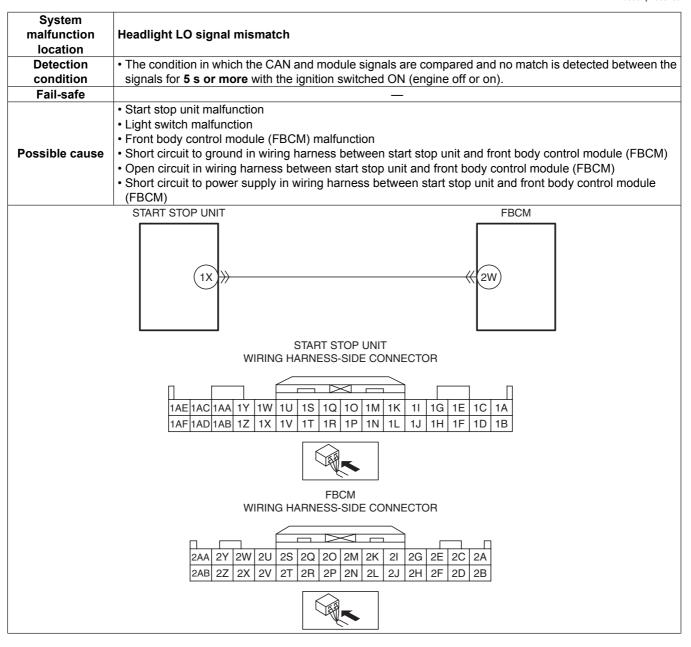
## DTC B13AF:62 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2008200



**Diagnostic Procedure** 

Step	Inspection		Action
1	INSPECT IF MALFUNCTION CAUSE IS START	Yes	Go to Step 3.
	STOP UNIT OR FRONT BODY CONTROL	No	Go to the next step.
	MODULE (FBCM)		
	Display start stop unit PID H/L_SW_LOW using		
	the M-MDS.		
	(See PID/DATA MONITOR INSPECTION		
	[START STOP UNIT].)		
	Verify the PID while operating the light switch.		
	<ul><li>Is the display of PID H/L_SW_LOW normal?</li></ul>		
2	INSPECT LIGHT SWITCH	Yes	Replace the start stop unit, then go to Step 7.
	Inspect the light switch.		(See START STOP UNIT REMOVAL/INSTALLATION.)
	(See LIGHT SWITCH INSPECTION.)	No	Replace the light switch, then go to Step 7.
	Is the light switch normal?		(See LIGHT SWITCH REMOVAL/INSTALLATION.)

Step	Inspection		Action
3	INSPECT IF MALFUNCTION CAUSE IS FRONT	Yes	Go to the next step.
3	BODY CONTROL MODULE (FBCM) OR WIRING HARNESS  • Display front body control module (FBCM) PID H/L_SW_LOW1 using the M-MDS. (See PID/DATA MONITOR INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)  • Verify the PID while operating the light switch. • Is the display of PID H/L_SW_LOW1 normal?	No	Perform the CAN malfunction diagnosis flow and inspect the CAN for a malfunction.  (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (L.H.D.)].)  (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (R.H.D.)].)  (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (L.H.D.)].)  (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (R.H.D.)].)  * If there is no malfunction in CAN, replace the front body control module (FBCM), then go to Step 7.  (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
4	INSPECT FOR SHORT TO GROUND	Yes	Repair or replace the wiring harness, then go to Step 7.
·	BETWEEN LIGHT SWITCH AND FRONT BODY CONTROL MODULE (FBCM)  • Switch the light switch off.  • Inspect for continuity between front body control module (FBCM) terminal 2W and body ground.  • Is there continuity?	No	Go to the next step.
5	INSPECT WIRING HARNESS BETWEEN	Yes	Go to the next step.
	LIGHT SWITCH AND FRONT BODY CONTROL MODULE (FBCM) FOR OPEN CIRCUIT  • Disconnect the front body control module (FBCM) connector.  • Disconnect the start stop unit connector.  • Inspect for continuity between front body control module (FBCM) terminal 2W and start stop unit terminal 1X.  • Is there continuity?	No	Repair or replace the wiring harness, then go to Step 7.
6	INSPECT FOR SHORT TO POWER SUPPLY	Yes	Go to the next step.
	CONTROL MODULE (FBCM)  • Verify that the start stop unit and front body control module (FBCM) connectors are disconnected.  • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)  • Switch the ignition ON (engine off or on).  • Measure the voltage at front body control module (FBCM) terminal 2W.  • Is the voltage 0 V?	No	Repair or replace the wiring harness and go to the next step.

Step	Inspection		Action
7	VERIFY THAT REPAIRS HAVE BEEN COMPLETED	Yes	the next step.
	<ul> <li>Clear front body control module (FBCM) DTCs using the M-MDS.</li> </ul>		(See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
	(See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].)  • Switch the ignition ON (engine off or on) and wait for <b>5</b> s or more.  • Perform the front body control module (FBCM) DTC inspection using the M-MDS.  (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)  • Is DTC B13AF:62 displayed?	No	Go to the next step.
8	• Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
		No	DTC troubleshooting completed.