

**DTC B1041:54 [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)]**

id09021n934000

<b>System malfunction location</b>	<b>Headlight auto leveling system initialization error</b>
<b>Detection condition</b>	• Ignition is switched ON (engine off or on) and headlight auto leveling system initialization is not performed.
<b>Fail-safe</b>	• The swivel actuator is moved to the center. • The headlight leveling actuator is stopped at the position when the malfunction is determined.
<b>Possible cause</b>	• Headlight auto leveling system initialization error • AFS control module malfunction
<b>System wiring diagram</b>	—

**Diagnostic Procedure**

<b>Step</b>	<b>Inspection</b>	<b>Action</b>
1	<b>PERFORM HEADLIGHT AUTO LEVELING SYSTEM INITIALIZATION</b> <ul style="list-style-type: none"><li>• Perform headlight auto leveling system initialization. (See HEADLIGHT AUTO LEVELING SYSTEM INITIALIZATION.)</li><li>• Clear the AFS control module DTCs using the M-MDS. (See CLEARING DTC [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)</li><li>• Perform the DTC inspection for the AFS control module using the M-MDS. (See DTC INSPECTION [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)</li><li>• Is DTC B1041:54 displayed?</li></ul>	Yes Perform the headlight auto leveling system initialization again, then go to the next step. (See HEADLIGHT AUTO LEVELING SYSTEM INITIALIZATION.)
		No Go to Step 3.
2	<b>VERIFY THAT REPAIRS HAVE BEEN COMPLETED</b> <ul style="list-style-type: none"><li>• Clear the AFS control module DTCs using the M-MDS. (See CLEARING DTC [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)</li><li>• Perform the DTC inspection for the AFS control module using the M-MDS. (See DTC INSPECTION [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)</li><li>• Is DTC B1041:54 displayed?</li></ul>	Yes Replace the AFS control module, then go to the next step. (See ADAPTIVE FRONT LIGHTING SYSTEM (AFS) CONTROL MODULE REMOVAL/INSTALLATION.)
		No Go to the next step.
3	<b>VERIFY IF OTHER DTCs DISPLAYED</b> <ul style="list-style-type: none"><li>• Are any other DTCs displayed?</li></ul>	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)
		No DTC troubleshooting completed.