

DTC C0051:86 [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)]

id09021n017200

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| System malfunction location | Error steering angle signal received from EPS control module |
| Detection condition | <ul style="list-style-type: none">• Either a condition in which the steering angle sensor has a malfunction and the EPS control module has not performed steering angle neutral position auto learning, or a condition in which the EPS control module has a malfunction is detected for 5 s or more. |
| Fail-safe | <ul style="list-style-type: none">• The swivel actuator is moved to the center.• Control of the headlight auto leveling system is continued. |
| Possible cause | <ul style="list-style-type: none">• DTCs are stored in the start stop unit.• DTCs are stored in the EPS control module.• EPS control module malfunction• AFS control module malfunction |
| System wiring diagram | — |

Diagnostic Procedure

| Step | Inspection | Action |
|-------------|---|---|
| 1 | VERIFY START STOP UNIT DTCs <ul style="list-style-type: none">• Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].)• Is the DTC displayed? | Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [START STOP UNIT].) |
| | | No Go to the next step. |
| 2 | VERIFY EPS CONTROL MODULE DTCs <ul style="list-style-type: none">• Perform the DTC inspection for the EPS control module using the M-MDS. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.)• Is the DTC displayed? | Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.) |
| | | No Go to the next step. |
| 3 | PERFORM DTC INSPECTION AND VERIFY IF MALFUNCTIONING PART IS EPS CONTROL MODULE <ul style="list-style-type: none">• Clear the AFS control module DTCs using the M-MDS. (See CLEARING DTC [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)• Switch the ignition ON (engine off or on) and wait for 5 s or more.• Perform the DTC inspection for the AFS control module using the M-MDS. (See DTC INSPECTION [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)• Is DTC C0051:86 displayed? | Yes Replace the EPS control module, then go to the next step. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.) |
| | | No Go to Step 5. |
| 4 | VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none">• Clear the AFS control module DTCs using the M-MDS. (See CLEARING DTC [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)• Switch the ignition ON (engine off or on) and wait for 5 s or more.• Perform the DTC inspection for the AFS control module using the M-MDS. (See DTC INSPECTION [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].)• Is DTC C0051:86 displayed? | 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. |
| 5 | VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none">• Are any other DTCs displayed? | Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ADAPTIVE FRONT LIGHTING SYSTEM (AFS)].) |
| | | No DTC troubleshooting completed. |