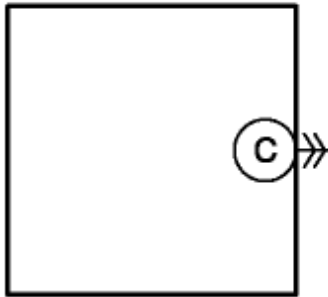


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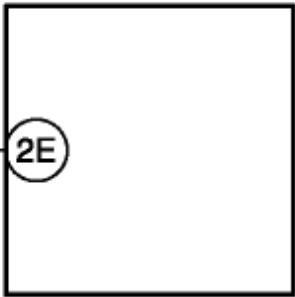
DTC U2030 [AUTO LIGHT/ WIPER CONTROL MODULE]

DESCRIPTION	Rain sensor/auto light sensor communication fault
DETECTION CONDITION	Communication error to rain sensor/auto light sensor
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between auto light/wiper control module terminal 2E and rain sensor/auto light sensor terminal C • Short to power supply in wiring harness between auto light/wiper control module terminal 2E and rain sensor/auto light sensor terminal C • Open circuit in wiring harness between auto light/wiper control module terminal 2E and rain sensor/auto light sensor terminal C • Rain sensor/auto light sensor malfunction • Auto light/wiper control module malfunction

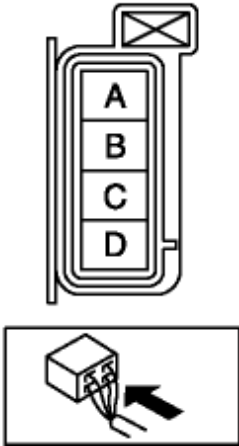
RAIN SENSOR/AUTO LIGHT SENSOR



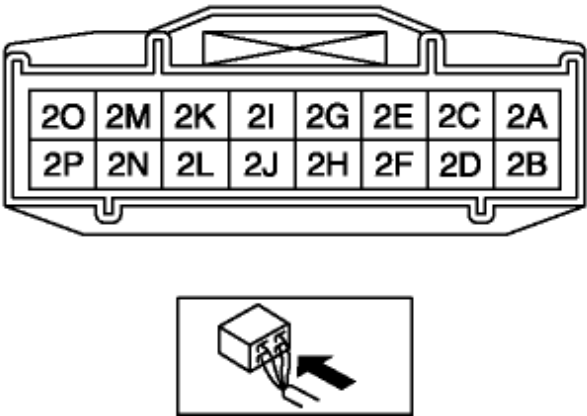
AUTO LIGHT/WIPER CONTROL MODULE



RAIN SENSOR/AUTO LIGHT SENSOR WIRING HARNESS-SIDE CONNECTOR



AUTO LIGHT/WIPER CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the rain sensor/auto light sensor connector. - Inspect the rain sensor/auto light sensor connector for poor connection (such as damaged/pulled-out pins, and corrosion). - Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 7.
		No	Go to the next step.
2	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION - Disconnect the auto light/wiper control module connector. - Inspect the auto light/wiper control module	Yes	Repair or replace the connector or terminal, then go to Step 7.
		No	Go to the next step.

	connector for poor connection (such as damaged/pulled-out pins, and corrosion). Is there any malfunction?		
3	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between auto light/wiper control module terminal 2E (wiring harness-side) and body ground. - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 7.
		No	Go to the next step.
4	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Connect the negative battery cable. - Switch the ignition to ON (engine off). - Measure the voltage between auto light/wiper control module terminal 2E (wiring harness-side) and body ground. - Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.
		No	Go to the next step.
5	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR OPEN CIRCUIT - Switch the ignition to off. - Disconnect the negative battery cable. - Inspect for continuity between auto light/wiper control module terminal 2E (wiring harness-side) and rain sensor/auto light sensor terminal C (wiring harness-side). - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
6	PERFORM DTC INSPECTION - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER	Yes	Replace the rain sensor/auto light sensor, then go to the next step. (See RAIN SENSOR REMOVAL/ INSTALLATION.)
		No	Go to Step 8.

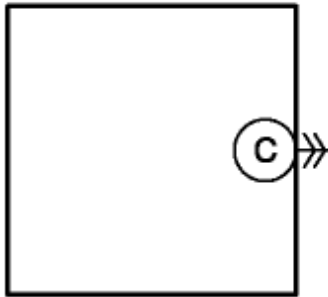
	CONTROL MODULE] .) • Is the same DTC present?		
7	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE] .) • Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE] .) • Is the same DTC present?	Yes	Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	Go to the next step.
8	VERIFY THAT NO OTHER DTCs ARE RECORDED • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE] .)
		No	DTC troubleshooting completed.

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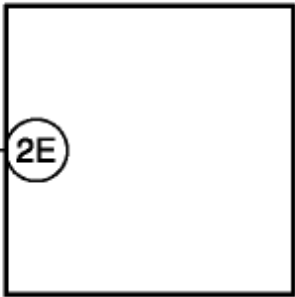
DTC U2030 [AUTO LIGHT/ WIPER CONTROL MODULE]

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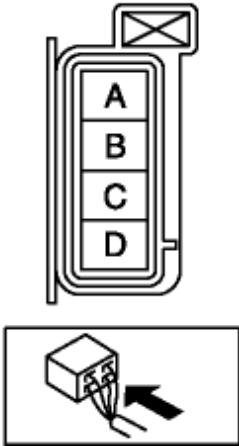
RAIN SENSOR/AUTO LIGHT SENSOR



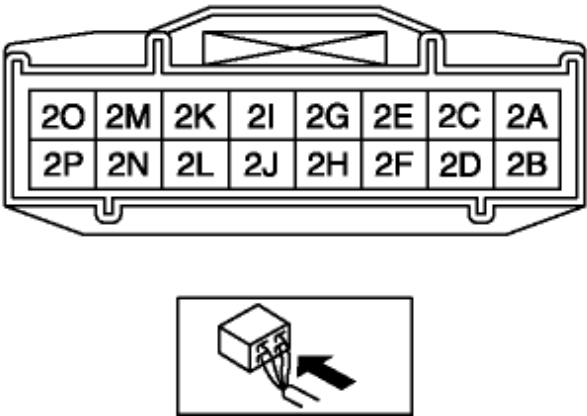
AUTO LIGHT/WIPER CONTROL MODULE



RAIN SENSOR/AUTO LIGHT SENSOR WIRING HARNESS-SIDE CONNECTOR



AUTO LIGHT/WIPER CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the rain sensor/auto light sensor connector. - Inspect the rain sensor/auto light sensor connector for poor connection (such as damaged/pulled-out pins, and corrosion). - Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 7.
		No	Go to the next step.
2	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION - Disconnect the auto light/wiper control module connector. - Inspect the auto light/wiper control module	Yes	Repair or replace the connector or terminal, then go to Step 7.
		No	Go to the next step.

	connector for poor connection (such as damaged/pulled-out pins, and corrosion). Is there any malfunction?		
3	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between auto light/wiper control module terminal 2E (wiring harness-side) and body ground. - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 7.
		No	Go to the next step.
4	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY - Connect the negative battery cable. - Switch the ignition to ON (engine off). - Measure the voltage between auto light/wiper control module terminal 2E (wiring harness-side) and body ground. - Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.
		No	Go to the next step.
5	INSPECT RAIN SENSOR/ AUTO LIGHT SENSOR SIGNAL CIRCUIT FOR OPEN CIRCUIT - Switch the ignition to off. - Disconnect the negative battery cable. - Inspect for continuity between auto light/wiper control module terminal 2E (wiring harness-side) and rain sensor/auto light sensor terminal C (wiring harness-side). - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
6	PERFORM DTC INSPECTION - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER	Yes	Replace the rain sensor/auto light sensor, then go to the next step. (See RAIN SENSOR REMOVAL/ INSTALLATION.)
		No	Go to Step 8.

	CONTROL MODULE] .) • Is the same DTC present?		
7	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE] .) • Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE] .) • Is the same DTC present?	Yes	Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	Go to the next step.
8	VERIFY THAT NO OTHER DTCs ARE RECORDED • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE] .)
		No	DTC troubleshooting completed.