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2008 FORD Galaxy OEM Service and Repair Workshop Manual

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module A)
U0151:00

module) through the GWM (gateway module A) are missing for 5 seconds or longer.

Possible Sources

- Communication network concern
- RCM (restraints control module)
- IPMA (image processing module A) concern
- GWM (gateway module A)

M1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify that there is an observable symptom present.

Is there an observable symptom present?

Yes	GO to M2
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No	CLEAR the DTC (diagnostic trouble code) . The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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M2 CHECK THE COMMUNICATION NETWORK

- Using a diagnostic scan tool, perform a network test.

Does the RCM (restraints control module) pass the network test?

Yes	GO to M3
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No	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing) . REFER to: Ethernet Module Communications Network (418-00C Ethernet Module Communications Network, Diagnosis and Testing) .
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M3 PERFORM THE IPMA (IMAGE PROCESSING MODULE A) SELF-TEST

- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using a diagnostic scan tool, perform the continuous memory self-test.
- Check the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).

Is the DTC U0151:00 still present?

Yes	GO to M7
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No	The system is operation correctly at this time. The DTC (diagnostic trouble code) may have set due to high network traffic or an intermittent fault condition.
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M7 CHECK FOR OTHER CAUSES OF COMMUNICATION NETWORK CONCERN

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during the PMI (programmable module installation) , or the PMI (programmable module installation) may not have been carried out.

- CHECK the vehicle service history for recent service actions related to the RCM (restraints control module) , GWM (gateway module A) or IPMA (image processing module A) . If recent service history is found:
 - verify correct replacement module was installed
 - HVBOM may be used to verify correct part fitment
 - verify the configuration of replacement module was correct
 - re-configure module using as-built data if prior configuration is suspect
 - verify the module was not obtained from a like vehicle and installed into customer vehicle
 - return the swapped module to source vehicle and obtain new replacement module
- Operate the system and determine if the observable symptom is still present.

Is the observable symptom still present?

Yes	GO to M8
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trouble code)		
IPMA (image processing module A) U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	A continuous memory DTC (diagnostic trouble code) that sets in the IPMA (image processing module A) if messages received from the IPC (instrument panel cluster) are missing for 5 seconds or longer.

Possible Sources

- Communication network concern
- IPC (instrument panel cluster)
- GWM (gateway module A) concern
- IPMA (image processing module A) concern

N1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is there an observable symptom present?

Yes	GO to N2
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No	CLEAR the DTC (diagnostic trouble code) . The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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N2 CHECK THE COMMUNICATION NETWORK

- Using a diagnostic scan tool, perform a network test.

Does the IPC (instrument panel cluster) pass the network test?

Yes	GO to N3
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No	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing). REFER to: Ethernet Module Communications Network
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No	GO to N6
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N6 RECHECK THE IPMA (IMAGE PROCESSING MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using a diagnostic scan tool, perform the continuous memory self-test.
- Check the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).

Is DTC (diagnostic trouble code) U0155:00 still present?

Yes	GO to N7
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No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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N7 CHECK FOR OTHER CAUSES OF COMMUNICATION NETWORK CONCERN

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during the PMI (programmable module installation), or the PMI (programmable module installation) may not have been carried out.

- CHECK the vehicle service history for recent service actions related to the IPC (instrument panel cluster), GWM (gateway module A) or IPMA (image processing module A). If recent service history is found:
 - verify correct replacement module was installed
 - HVBOM may be used to verify correct part fitment
 - verify the configuration of replacement module was correct
 - re-configure module using as-built data if prior configuration is suspect
 - verify the module was not obtained from a like vehicle and installed into customer vehicle
 - return the swapped module to source vehicle and obtain new replacement module

Normal Operation and Fault Conditions The IPMA (image processing module A) communicates with the SCCM (steering column control module) through the FD-CAN (Flexible Data Rate Controller Area Network), GWM (gateway module A) and HS-CAN2 (high-speed controller area network 2). **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
IPMA (image processing module A) U0212:00	Lost Communication With Steering Column Control Module: No Sub Type Information	A continuous memory DTC (diagnostic trouble code) that sets in the IPMA (image processing module A) if messages received from the SCCM (steering column control module) through the GWM (gateway module A) are missing for 5 seconds or longer.

Possible Sources

- Communication network concern
- SCCM (steering column control module)
- IPMA (image processing module A) concern
- GWM (gateway module A)

O1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is there an observable symptom present?

Yes	GO to O2
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No	CLEAR the DTC (diagnostic trouble code). The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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O2 CHECK THE COMMUNICATION NETWORK

- Using a diagnostic scan tool, perform a network test.

Does the SCCM (steering column control module) pass the network test?

Yes	GO to O3
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REFER to: [Ethernet Module Communications Network](#)
(418-00C Ethernet Module Communications Network, Diagnosis and Testing).

No GO to [O6](#)

O6 RECHECK THE IPMA (IMAGE PROCESSING MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using the diagnostic scan tool, perform the continuous memory self-test.
- Check the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).

Is DTC (diagnostic trouble code) U0212:00?

Yes GO to [O7](#)

No The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.

O7 CHECK FOR OTHER CAUSES OF COMMUNICATION NETWORK CONCERN

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during the PMI (programmable module installation), or the PMI (programmable module installation) may not have been carried out.

- CHECK the vehicle service history for recent service actions related to the SCCM (steering column control module), GWM (gateway module A) or IPMA (image processing module A). If recent service history is found:
 - verify correct replacement module was installed
 - HVBOM may be used to verify correct part fitment
 - verify the configuration of replacement module was correct

PINPOINT TEST P : U0253:00

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Normal Operation and Fault Conditions The IPMA (image processing module A) communicates with the APIM (SYNC module) through the FD-CAN (Flexible Data Rate Controller Area Network), GWM (gateway module A) and HS-CAN3 (high-speed controller area network 3). **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
IPMA (image processing module A) U0253:00	Lost Communication With Accessory Protocol Interface Module: No Sub Type Information	A continuous memory DTC (diagnostic trouble code) that sets in the IPMA (image processing module A) if messages received from the APIM (SYNC module) through the GWM (gateway module A) are missing for 5 seconds or longer.

Possible Sources

- Communication network concern
- APIM (SYNC module)
- IPMA (image processing module A) concern
- GWM (gateway module A) concern

P1 VERIFY THE CUSTOMER'S CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to P2
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No	CLEAR the DTC (diagnostic trouble code). The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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P2 VERIFY THAT THE DIAGNOSTIC SCAN TOOL COMMUNICATES WITH THE APIM (SYNC MODULE)

- Connect a diagnostic scan tool.
- Check that a vehicle session can be established using the diagnostic scan tool.

P5 PERFORM THE GWM (GATEWAY MODULE A) SELF-TEST

- Using a diagnostic scan tool, perform the GWM (gateway module A) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	SEE the GWM (gateway module A) DTC (diagnostic trouble code) Chart. REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing). REFER to: Ethernet Module Communications Network (418-00C Ethernet Module Communications Network, Diagnosis and Testing).
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No	GO to P6
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P6 RECHECK THE IPMA (IMAGE PROCESSING MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, clear the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using a diagnostic scan tool, perform the continuous memory self-test.
- Check the IPMA (image processing module A) Diagnostic Trouble Codes (DTCs).

Is DTC (diagnostic trouble code) U0253:00 still present?

Yes	GO to P7
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No	The system is operating correctly at this time. This DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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P7 CHECK FOR OTHER CAUSES OF COMMUNICATION NETWORK CONCERN

NOTE

REFER to: [Information and Entertainment System](#)
(415-00 Information and Entertainment System - General Information, Diagnosis and Testing).

No

The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST Q : U0122:00

Normal Operation and Fault Conditions

REFER to: [Lane Keeping System - System Operation and Component Description](#)(419-07 Lane Keeping System, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
IPMA (image processing module A) U0122:00	Lost Communication With Vehicle Dynamics Control Module: No Sub Type Information	Sets in continuous memory in the IPMA (image processing module A) if data messages received from the VDM (vehicle dynamics control module) through the GWM (gateway module A) are missing for 5 seconds or longer.

Possible Sources

- Communication concern
- GWM (gateway module A) concern
- VDM (vehicle dynamics control module)
- IPMA (image processing module A) concern

Q1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

Yes

GO to [Q2](#)