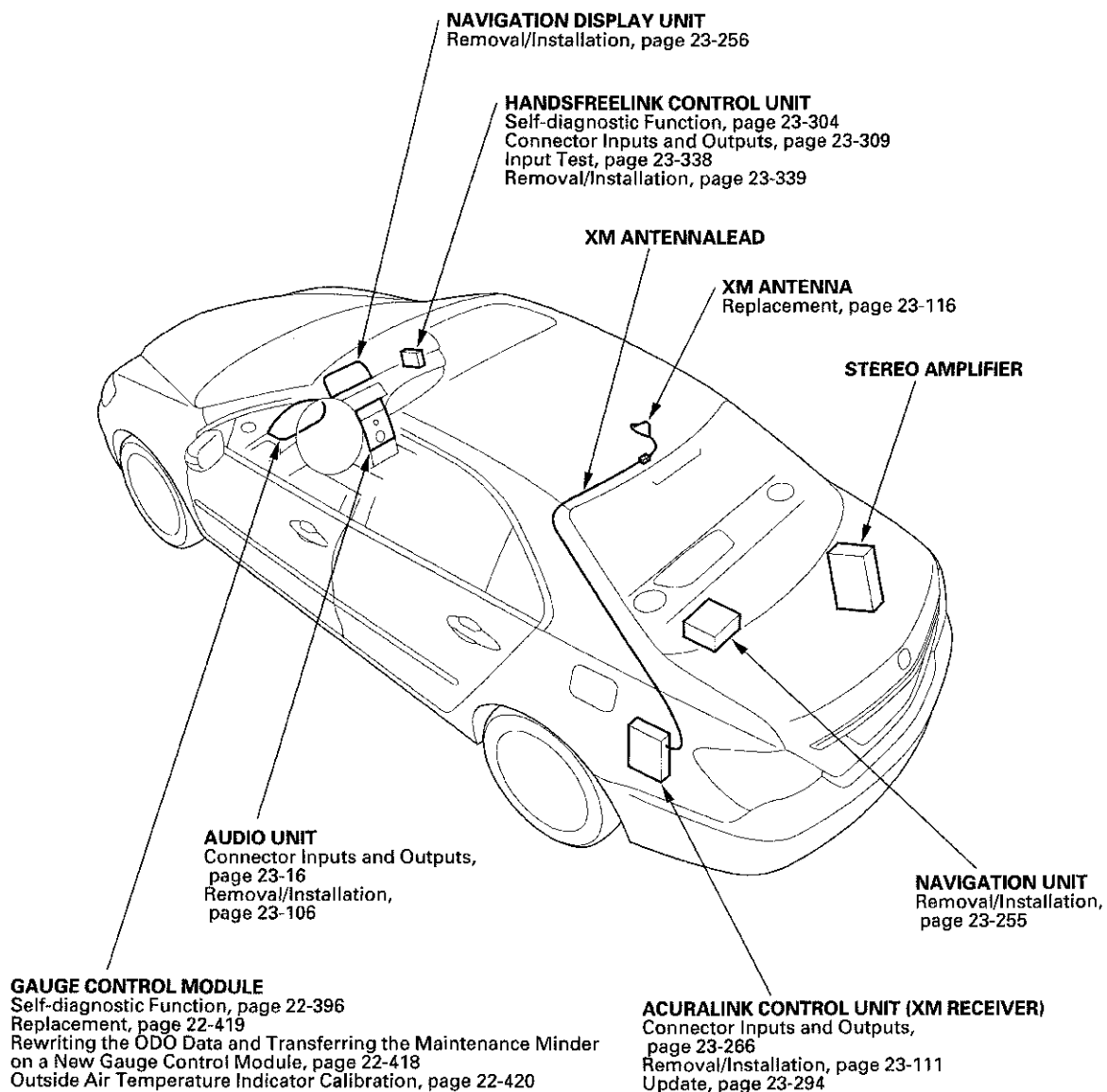




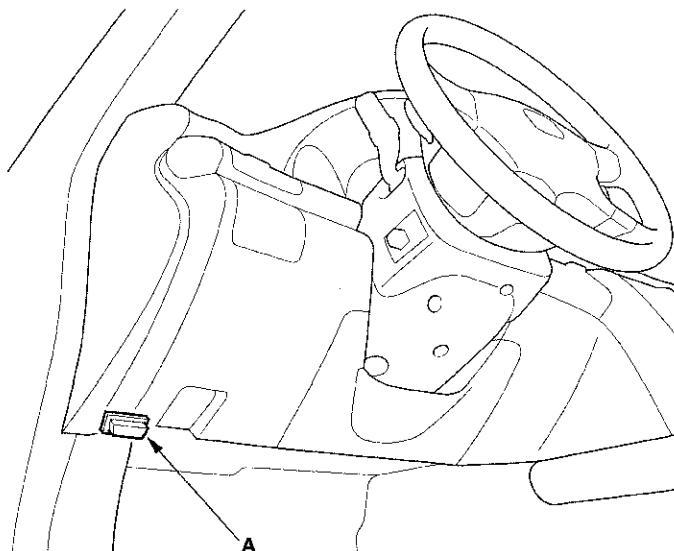
Component Location Index



General Troubleshooting Information

How to Check for DTCs with the HDS

1. Make sure the ignition switch is in LOCK (0).
2. Connect the HDS to the data link connector (DLC) (A) located under the driver's side of the dashboard.



3. Turn the ignition switch to ON (II).
4. Make sure the HDS communicates with the vehicle and the AcuraLink control unit (XM receiver). If it doesn't, troubleshoot the DLC circuit (see page 11-211).
5. Select XM/HIP in the BODY ELECTRICAL menu.
6. Select DTCs in the XM/HIP menu.
7. Check for DTCs. If any DTCs are indicated, write down the DTCs, then go to the indicated DTC troubleshooting. If no DTCs are indicated, refer to symptom troubleshooting.

NOTE:

- After troubleshooting, clear the DTCs with the HDS.
- For specific operations, refer to the user's manual that came with the HDS.



DTC Troubleshooting Index

AcuraLink control unit

DTC	Description	DTC type	Page
B2200	Communication bus line error	Loss of communication	(see page 22-148)
B2204	B-CAN communication line error	Loss of communication	(see page 23-283)
B2206	SRS unit lost communication with AcuraLink control unit (XM receiver)	Loss of communication	(see page 23-284)
B2211	F-CAN communication line error with PCM	Loss of communication	(see page 23-285)
B2212	Gauge control module lost F-CAN communication with AcuraLink control unit (XM receiver)	Loss of communication	(see page 23-286)
B2240	XM antenna error	Internal error	(see page 23-287)
B2248	HIP power supply abnormal (more than 16 V)	Battery voltage	(see page 23-287)
B2249	HIP power supply abnormal (less than 9 V)	Battery voltage	(see page 23-288)

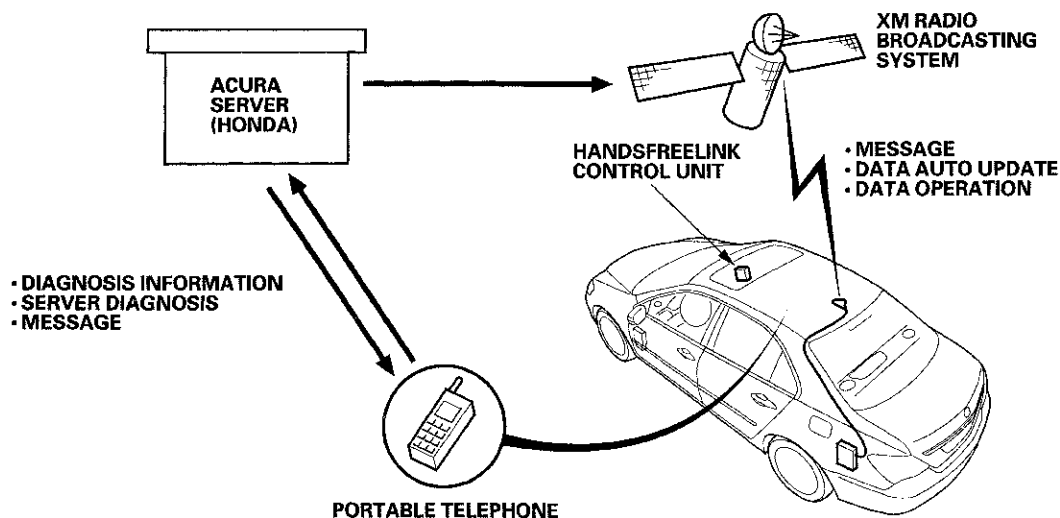
Symptom Troubleshooting Index

Symptom	Diagnostic procedure	Also check for
AcuraLink services do not work	Symptom Troubleshooting (see page 23-288)	- Blown fuse No. 21 (10 A) and No. 32 (10 A) in the driver's under-dash fuse/relay box - Poor ground at G602
AcuraLink services do not work after replacing the AcuraLink control unit (XM receiver)		- Call Acura Client Services and request an activation - Call XM client care and register the replacement AcuraLink control unit (XM receiver)
AcuraLink messages cannot be heard or are weak	Symptom Troubleshooting (see page 23-290)	
Traffic or Weather information is not shown on map screen	Navigation System Symptom Troubleshooting (see page 23-241)	- AcuraLink (XM) - Navigation unit - Harness
AcuraLink messages cannot be deleted	How to Delete Stored AcuraLink messages (see page 23-263)	



System Description

The AcuraLink uses the client's portable telephone or XM radio to transmit and receive information about the vehicle. It is controlled via serial data communication by using a remote display and control unit in the vehicle. For Acura specific XM data, the remote display and control unit is the navigation unit. In addition, the AcuraLink system has a Text-To-Speech engine, and also has the capability to initiate voice or data calls with the HandsFreeLink control unit.



Service Application

- Malfunction indicator lamp (MIL) explanation (from server message and vehicle message)
- Service information message
- Recall information
- Quick tips
- Place to provide feedback/view cautions that were not available when vehicle was initially sold
- Correction of address and full name that is registered
- Real time traffic information
- Weather information
- Maintenance information message
- Feature guide (90 days)

(cont'd)

System Description (cont'd)

How to Delete Stored AcuraLink Messages

The AcuraLink Satellite Communication System displays, and stores these types of messages on the navigation system display screen:

- Feature Guide info
- System malfunction info
- Driver warnings
- DTCs
- Quick tips

NOTE:

- To delete any stored AcuraLink messages, follow these procedures. The first procedure is for clients. It allows them to delete certain types of messages. The second procedure is for service techs. It lets you delete all stored messages.
- The diagnostic menu includes a DATA RESET function. Select this only at TQI, and when the vehicle changes ownership. It deletes all AcuraLink messages, log data, and AcuraLink registration. If you select DATA RESET during the 45-day activation period, the AcuraLink Feature Guide repeats the first message. AcuraLink messages related to a repair should be deleted after that repair is done. If you don't delete these messages, they stay in your client's AcuraLink message log.

Message Delete Procedure

Client

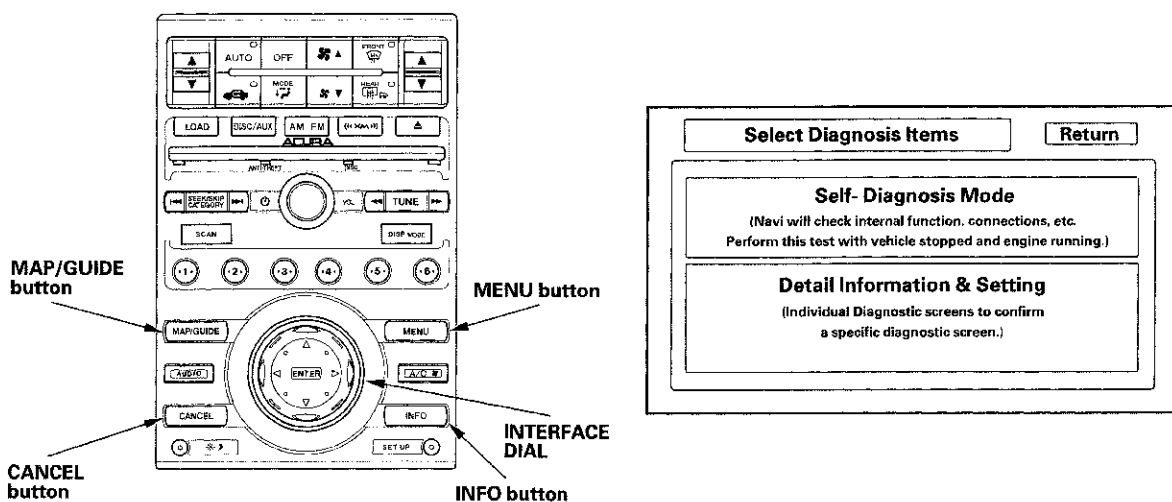
1. Turn the ignition switch to ON (II).
2. Select OK on the disclaimer screen.
3. Press the INFO button to bring up the Information screen.
4. Use the interface dial to select No. 1 All Messages.
5. Select the item number you want to delete, then select Delete. (If you don't see Delete on the display screen, you can't remove this message.)
6. Select Yes to confirm your choice.



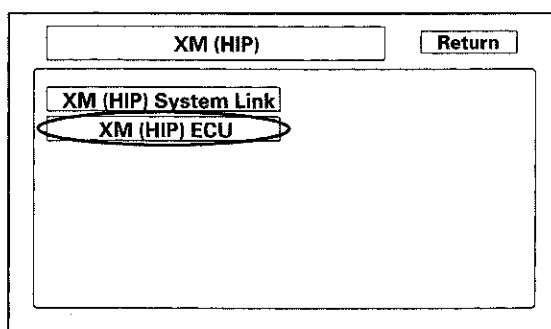
Message Delete Procedure

Service Tech Only

1. Turn the ignition switch to ON (II).
2. Select OK on the disclaimer screen.
3. Press MAP/GUIDE, MENU, and CANCEL buttons for 3 seconds, or connect the SCS service connector to the navigation service connector located in the trunk (see page 23-254) and the self-diagnosis mode begins. Then using the interface dial, select the Self-Diagnosis Mode or Detail Information & Setting from the Select Diagnosis Items.



4. Using the interface dial, select XM (HIP) from the Select Diagnosis Items or Detail information & Setting. Press the interface dial. Select XM (HIP) ECU.



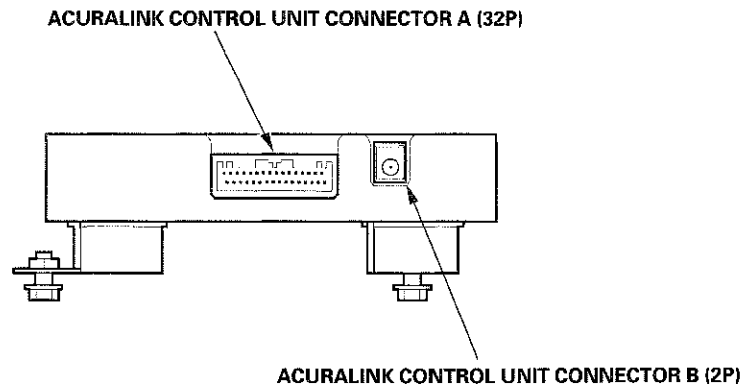
5. Select Diagnostic Info.
6. Select the item you want to delete. After the message and date come up, select Delete.
7. Select Yes to confirm your choice.
8. Repeat step 6 and 7 for each message you want to delete.

(cont'd)

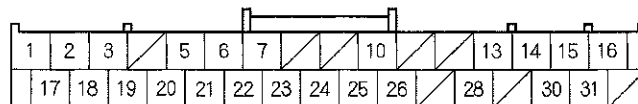
AcuraLink

System Description (cont'd)

AcuraLink Control Unit (XM Receiver) Connector for Inputs and Outputs



AcuraLink Control Unit (XM Receiver) Connector A (32P)



Wire side of female terminals

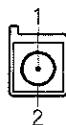
Cavity	Wire Color	Terminal Name	Connect to
A1	WHT	+B	No. 5 (7.5 A) fuse in the driver's under-hood fuse/relay box
A2	YEL	IG1	No. 21 (10 A) fuse in the drivers' under-dash fuse/relay box
A3	PUR	ACC	No. 32 (10 A) fuse in the drivers' under-dash fuse/relay box
A5	ORN	DIAG LINE	SRS unit
A6	RED	F-CAN L	F-CAN communication bus line
A7	WHT	F-CAN H	F-CAN communication bus line
A10	LT GRN	B-CAN	B-CAN communication bus line
A13	GRN	AUDIO R+	Audio unit, HandsFreeLink control unit, USB adapter unit
A14	BLK	AUDIO R-	Audio unit, HandsFreeLink control unit, USB adapter unit
A15	WHT	AUDIO L+	Audio unit, HandsFreeLink control unit, USB adapter unit
A16	RED	AUDIO L-	Audio unit, HandsFreeLink control unit, USB adapter unit



Cavity	Wire Color	Terminal Name	Connect to
A17	GRN	NAVI COMM1	Navigation unit
A18	BLK	NAVI COMM2	Navigation unit
A19	WHT	NAVI COMM3	Navigation unit
A20	RED	NAVI COMM4	Navigation unit
A21	GRY	NAVI COMM SH	Shield for terminals No. 17, No. 18, No. 19, and No. 20
A22	GRN	HFL COMM3	Navigation unit, HandsFreeLink control unit
A23	BLK	HFL COMM4	Navigation unit, HandsFreeLink control unit
A24	RED	HFL COMM1	Navigation unit, HandsFreeLink control unit
A25	WHT	HFL COMM2	Navigation unit, HandsFreeLink control unit
A26	GRY	HFL COMM SH	Shield for terminals No. 22, No. 23, No. 24, and No. 25
A28	BLK	GND	Body ground to G602
A30	GRN	GA-NET BUS+	Navigation unit, HandsFreeLink control unit, navigation display unit, USB adapter unit
A31	RED	GA-NET BUS-	Navigation unit, HandsFreeLink control unit, navigation display unit, USB adapter unit

* : The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the schematic.

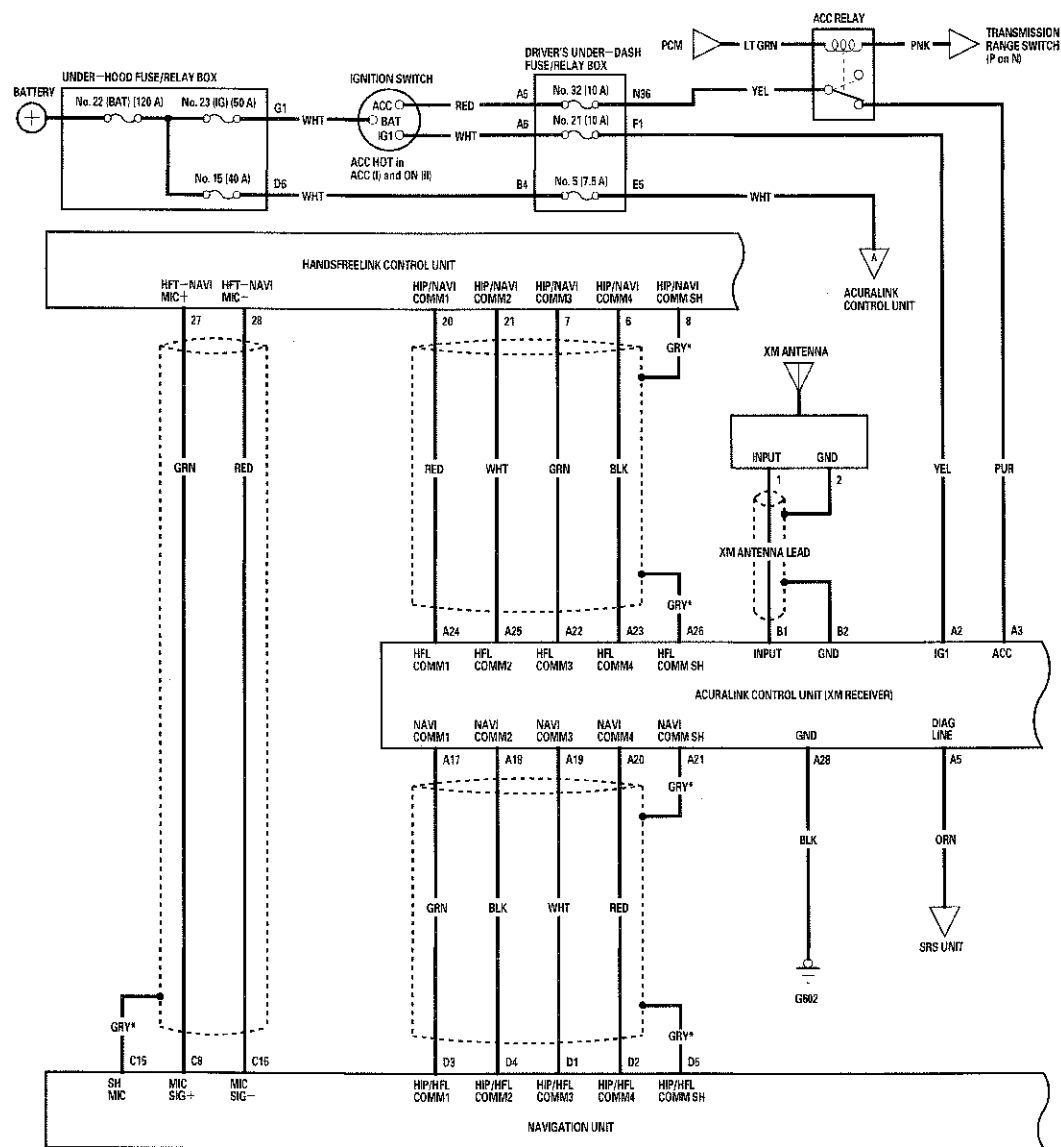
AcuraLink Control Unit (XM Receiver) Connector B (2P)



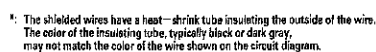
Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Connect to
B1	—	INPUT	XM antenna
B2	—	GND	Shield for terminal No. 1

Circuit Diagram



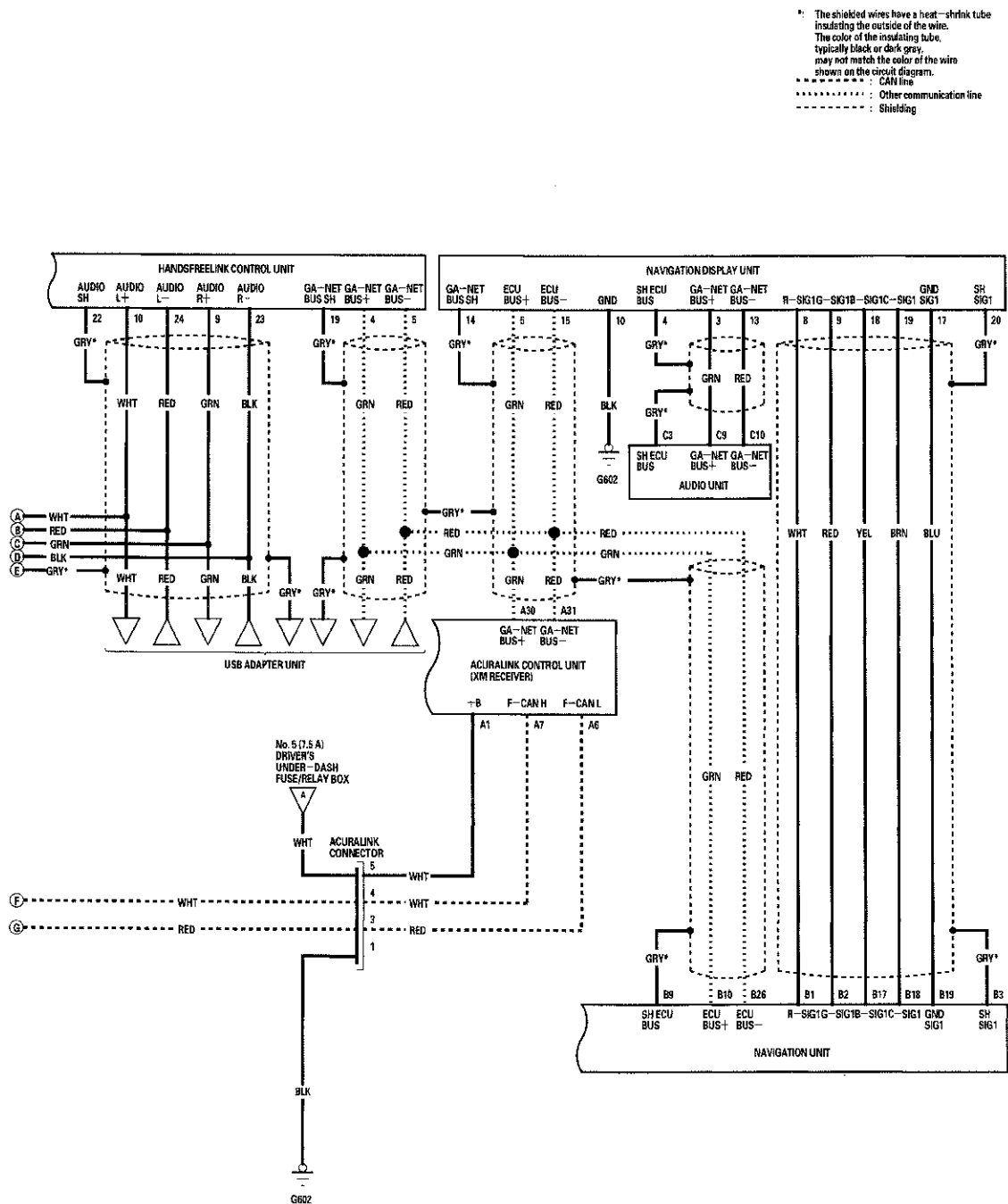
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(cont'd)

AcuraLink

Circuit Diagram (cont'd)





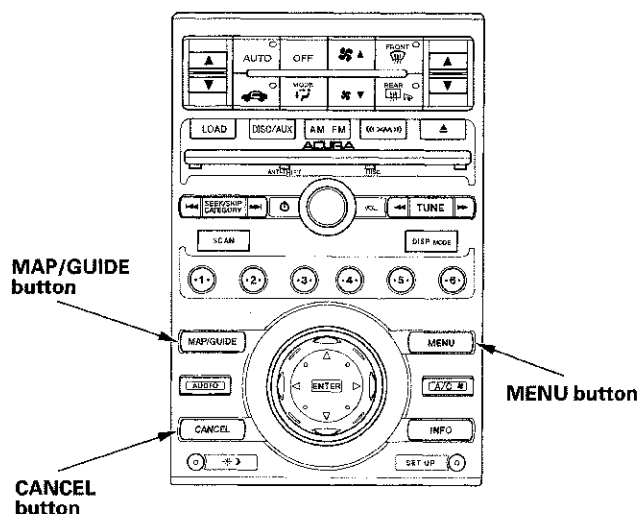
Self-diagnostic Function

Note: Only select DATA RESET from the XM (HIP) ECU screen when instructed. Selecting DATA RESET will clear the AcuraLink registration, and the AcuraLink service will reset to the factory default. If the vehicle was already registered for the AcuraLink service, it will have to be reactivated by calling Acura Client Services before all features are available.

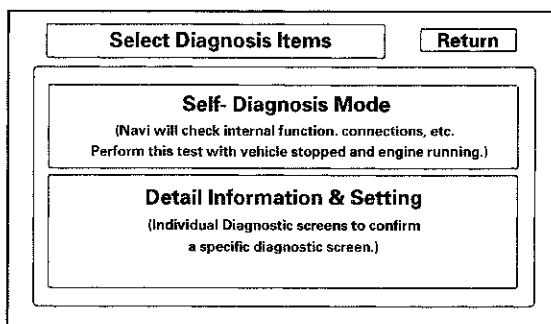
The AcuraLink, built into the XM receiver has a self-diagnostic function. To run the self-diagnostic function, do the following:

How to Enter the Self-diagnostic Function

1. Turn the ignition switch to ON (II).
2. Press the MAP/GUIDE, CANCEL, and MENU buttons at the same time for 3 seconds more, and the self-diagnosis mode begins.



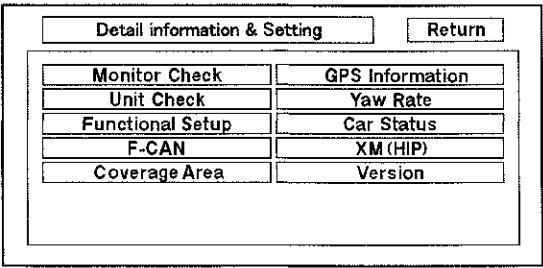
3. Using interface dial, select the Detail Information & Setting from the Select Diagnosis Items menu. Press the interface dial.



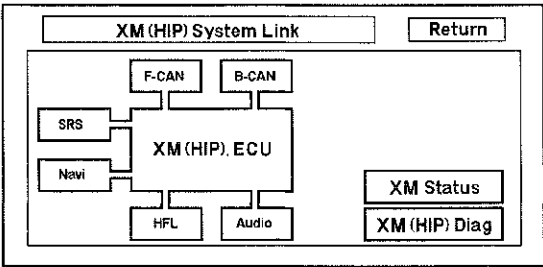
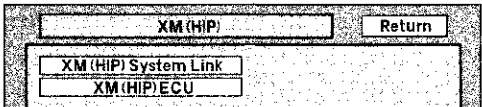
(cont'd)

Self-diagnostic Function (cont'd)

4. Using the interface dial, select the XM (HIP) from the Detail Information & Setting menu. Press the interface dial.



5. Using the interface dial, select the XM (HIP) System Link from the XM (HIP) menu. Press the interface dial. The display indicates XM (HIP) System Link, and does an AcuraLink connection check for each device. If a connection is faulty, the place where it is faulty is indicated with NG (red color).



Connection OK: Green color
Connection NG: Red color



6. When a red (NG) is indicated, check the continuity between the AcuraLink control unit (XM receiver) and the device indicated in red.

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
F-CAN	AcuraLink control unit (XM receiver) connector A (32P) and SH-AWD control unit connector A (26P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and SH-AWD control unit connector A (26P) terminal No. 11: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and SH-AWD control unit connector A (26P) terminal No. 10: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and PCM connector A (31P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and PCM connector A (31P) terminal No. 15: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and PCM connector A (31P) terminal No. 26: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and gauge control module connector B (28P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and gauge control module connector B (28P) terminal No. 16: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and gauge control module connector B (28P) terminal No. 15: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and TPMS control unit connector A (20P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and TPMS control unit connector A (20P) terminal No. 19: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and TPMS control unit connector A (20P) terminal No. 10: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and navigation unit connector B (32P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and navigation unit connector B (32P) terminal No. 8: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and navigation unit connector B (32P) terminal No. 24: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and VSA control unit connector A (47P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 7 and VSA control unit connector A (47P) terminal No. 14: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 6 and VSA control unit connector A (47P) terminal No. 30: There should be continuity.	An open in the wire

(cont'd)

Self-diagnostic Function (cont'd)

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
F-CAN	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P), TPMS control unit connector A (20P), VSA control unit connector A (47P), and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 7: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (20P) terminals No. 1 and No. 6: There should be no continuity.	A short in the wire
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P), TPMS control unit connector A (20P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
	AcuraLink control unit (XM receiver) connector A (32P), PCM connector A (31P), gauge control module connector B (28P), TPMS control unit connector A (20P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the SH-AWD control unit
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), gauge control module connector B (28P), TPMS control unit connector A (20P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the PCM
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), TPMS control unit connector A (20P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the gauge control module
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the TPMS control unit
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P) and TPMS control unit connector B (20P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the navigation unit
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P), TPMS control unit connector A (20P), adaptive cruise control (ACC) unit connector (20P) and navigation unit connector B (32P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be not continuity.	A short in the VSA control unit
	AcuraLink control unit (XM receiver) connector A (32P), SH-AWD control unit connector A (26P), PCM connector A (31P), gauge control module connector B (28P) and TPMS control unit connector A (20P) disconnected	Check for continuity between body ground and AcuraLink control unit (XM receiver) connector A (32P) terminals No. 7 and No. 6 individually: There should be no continuity.	A short in the navigation unit



Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
B-CAN	AcuraLink control unit (XM receiver) connector A (32P) and driver's under-dash fuse/relay box connector J (21P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and driver's under-dash fuse/relay box connector J (21P) terminal No. 7: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and gauge control module connector B (28P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and gauge control module connector B (28P) terminal No. 17: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and active headlights control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and active headlights control unit 40P connector terminal No. 15: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and combination switch control unit 8P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and combination switch control unit 8P connector terminal No. 4: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and driver's MPICS unit connector A (40P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and driver's MPICS unit connector A (40P) terminal No. 28: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and smart ECU connector A (31P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and smart ECU connector A (31P) terminal No. 11: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and power tilt/telescopic steering control unit connector A (16P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and power tilt/telescopic steering control unit connector A (16P) terminal No. 11: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and power seat control unit connector A (40P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and power seat control unit connector A (40P) terminal No. 40: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and HandsFreeLink control unit 28P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and HandsFreeLink control unit 28P connector terminal No. 18: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P) and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and climate control unit 40P connector terminal No. 24: There should be continuity.	An open in the wire
	AcuraLink control unit (XM receiver) connector A (32P), driver's under-dash fuse/relay box connector J (21P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPICS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and AcuraLink control unit (XM receiver) unit connector A (32P) terminal No. 1: There should be no continuity.	A short in the wire A short in the wire

(cont'd)

Self-diagnostic Function (cont'd)

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
B-CAN	Driver's under-dash fuse/relay box connector J (21P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), smart ECU connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
	AcuraLink control unit (XM receiver) connector A (32P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the under-dash fuse/relay box
	AcuraLink control unit (XM receiver) connector A (32P), driver's under-dash fuse/relay box connector J (21P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the gauge control module



Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
B-CAN	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the active headlights control unit
	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the combination switch control unit
	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the driver's MPCS unit

(cont'd)

Self-diagnostic Function (cont'd)

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
B-CAN	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the keyless access control unit
	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power seat control unit connector A (40P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the power tilt/telescopic steering control unit
	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), HandsFreeLink control unit 28P connector, and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and body ground: There should be no continuity.	A short in the power seat control unit



Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
B-CAN	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), and climate control unit 40P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector B (16P) terminal No. 10 and body ground: There should be no continuity.	A short in the HandsFreeLink control unit
	AcuraLink control unit (XM receiver) connector A (32P), under-hood fuse/relay box connector J (10P), gauge control module connector B (28P), active headlights control unit 40P connector, combination switch control unit 8P connector, driver's MPCS unit connector A (40P), keyless access control unit connector A (31P), power tilt/telescopic steering control unit connector A (16P), power seat control unit connector A (40P), and HandsFreeLink control unit 28P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector B (16P) terminal No. 10 and body ground: There should be no continuity.	A short in the climate control unit

(cont'd)

AcuraLink

Self-diagnostic Function (cont'd)

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
SRS	AcuraLink control unit (XM receiver) connector A (32P) and SRS unit connector A (28P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and SRS unit connector A (28P) terminal No. 13: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and AcuraLink control unit (XM receiver) connector A (32P) terminal No. 1: There should be no continuity.	A short in the wire
	SRS unit connector A (28P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
	AcuraLink control unit (XM receiver) connector A (32P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and body ground: There should be no continuity.	A short in the SRS unit
Navi	AcuraLink control unit (XM receiver) connector A (32P) and navigation unit connector D (7P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 17 and navigation unit connector D (7P) terminal No. 3: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 18 and navigation unit connector D (7P) terminal No. 4: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and navigation unit connector D (7P) terminal No. 1: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 20 and navigation unit connector D (7P) terminal No. 2: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 17 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 17: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 18 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 18: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 19: There should be no continuity.	A short in the wire

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Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
Navi	AcuraLink control unit (XM receiver) connector A (32P) and navigation unit connector D (7P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 20 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 20: There should be no continuity.	A short in the wire
	Navigation unit connector D (7P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 17 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 18 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
	AcuraLink control unit (XM receiver) connector A (32P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 17 and body ground: There should be no continuity.	A short in the navigation unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 18 and body ground: There should be no continuity.	A short in the navigation unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and body ground: There should be no continuity.	A short in the navigation unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 19 and body ground: There should be no continuity.	A short in the navigation unit
HFL	AcuraLink control unit (XM receiver) connector A (32P) and HandsFreeLink control unit 28P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 24 and HandsFreeLink control unit 28P connector terminal No. 20: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 25 and HandsFreeLink control unit 28P connector terminal No. 21: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 22 and HandsFreeLink control unit 28P connector terminal No. 7: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 23 and HandsFreeLink control unit 28P connector terminal No. 6: There should be continuity.	An open in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 24 and body ground: There should be no continuity.	A short in the wire

(cont'd)

Self-diagnostic Function (cont'd)

Device indicated in red	Test condition	Test: Desired result	Possible cause if result is not obtained
HFL	AcuraLink control unit (XM receiver) connector A (32P) and HandsFreeLink control unit 28P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 24: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 25 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 25: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 22 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 22: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 23 and body ground: There should be no continuity.	A short in the wire
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminals No. 1 and No. 23: There should be no continuity.	A short in the wire
	HandsFreeLink control unit 28P connector disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 24 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 25 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 22 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 23 and body ground: There should be no continuity.	A short in the AcuraLink control unit (XM receiver)
	AcuraLink control unit (XM receiver) connector A (32P) disconnected	Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 24 and body ground: There should be no continuity.	A short in the HandsFreeLink control unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 25 and body ground: There should be no continuity.	A short in the HandsFreeLink control unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 22 and body ground: There should be no continuity.	A short in the HandsFreeLink control unit
		Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 23 and body ground: There should be no continuity.	A short in the HandsFreeLink control unit

NOTE: If the XM antenna connection condition is faulty, XM ANTENNA is indicated on the audio-HVAC subdisplay.

7. If the indication does not go away, confirm DTCs, and refer to the relevant system troubleshooting and input tests.

Cancelling the Self-diagnostic Function

1. Use the interface dial, select the Exit Diag. Press the interface dial to cancel the self-diagnostic function.



DTC Troubleshooting

DTC B2204: B-CAN Communication Line Error

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN system diagnosis test mode A (see page 22-131).

1. Connect the HDS to the DLC (see page 23-260).
2. Turn the ignition switch to ON (II).
3. Check for DTCs with the HDS and DTC log data in the navigation system diagnostic mode (see page 23-166).

Is DTC B2204 indicated with HDS and on the navigation display?

YES—Go to step 4.

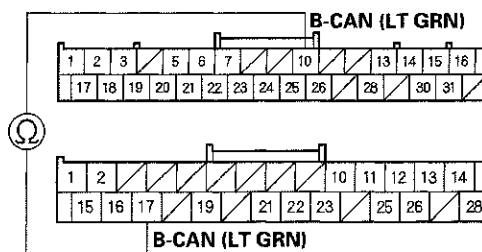
NO—Intermittent failure, the B-CAN communication line is OK at this time. Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). ■

4. Turn the ignition switch to LOCK (0).
5. Disconnect AcuraLink control unit (XM receiver) connector A (32P) and the gauge control module connector B (28P).

6. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 10 and gauge control module connector B (28P) terminal No. 17.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)

Wire side of female terminals



GAUGE CONTROL MODULE CONNECTOR B (28P)

Wire side of female terminals

Is there continuity?

YES—Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). If all connections are OK, update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). ■

NO—Repair an open in the wire between the AcuraLink control unit (XM receiver) and the gauge control module. ■

DTC Troubleshooting (cont'd)

DTC B2206: SRS Unit Lost Communication with AcuraLink Control Unit (XM receiver)

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN system diagnosis test mode A (see page 22-131).

1. Connect the HDS to the DLC (see page 23-260).
2. Turn the ignition switch to ON (II).
3. Check for DTCs with the HDS and DTC log data in the navigation system diagnostic mode (see page 23-166).

Is DTC B2206 indicated with HDS and on the navigation display?

YES—Go to step 4.

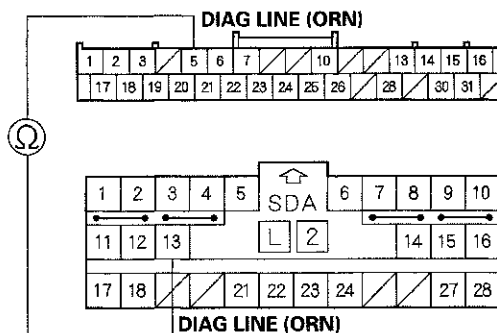
NO—Intermittent failure, the B-CAN communication line is OK at this time. Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). ■

4. Turn the ignition switch to LOCK (0).
5. Disconnect AcuraLink control unit (XM receiver) connector A (32P) and the SRS unit connector A (28P).

6. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 5 and SRS unit connector A (28P) terminal No. 13.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)

Wire side of female terminals



SRS UNIT CONNECTOR A (28P)

Wire side of female terminals

Is there continuity?

YES—Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). If all connections are OK, update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). ■

NO—Repair an open in the wire between the AcuraLink control unit (XM receiver) and the SRS unit. ■



DTC B2211: F-CAN Communication Line Error with PCM

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN System Diagnosis Test Mode A (see page 22-131).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch to LOCK (0), and then back to ON (II).
3. Start and run the engine for at least 5 seconds, then turn the engine off.
4. Check for DTCs with the HDS.

Is DTC B2211 indicated?

YES—Go to step 5.

NO—Intermittent failure, the F-CAN communication line is OK at this time. Check for DTCs in the PCM with the HDS. If F-CAN DTCs are present, check for loose or poor connections at the gauge control module and the PCM. If the connections are good, check the battery condition and the charging system, then clear all DTCs. ■

5. Check for DTCs in the PCM with the HDS.

Are any DTCs indicated?

YES—Go to the PCM indicated DTC's troubleshooting. ■

NO—Go to step 6.

6. Do the gauge control module input test (see page 22-419).

Are all inputs OK?

YES—Go to step 7.

NO—Repair the faulty input, then recheck the DTCs. ■

7. Substitute a known-good gauge control module.
8. Clear the DTCs with the HDS.
9. Turn the ignition switch to LOCK (0), and then back to ON (II).
10. Start and run the engine for at least 5 seconds, then turn the engine off.
11. Check for DTCs with the HDS.

Is DTC B2211 indicated?

YES—Replace the PCM. ■

NO—The original gauge control module is faulty; replace it. ■

DTC Troubleshooting (cont'd)

DTC B2212: Gauge Control Module Lost F-CAN Communication Line Error with AcuraLink Control Unit (XM receiver)

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN system diagnosis test mode A (see page 22-131).

1. Connect the HDS to the DLC (see page 23-260).

2. Turn the ignition switch to ON (II).

3. Check for DTCs with the HDS and DTC log data in the navigation system diagnostic mode (see page 23-166).
- Is DTC B2212 indicated with HDS and on the navigation display?

YES—Go to step 4.

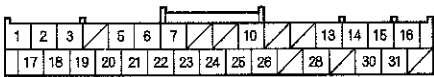
NO—Intermittent failure, the F-CAN communication line is OK at this time. Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). ■
4. Turn the ignition switch to LOCK (0).

5. Disconnect AcuraLink control unit (XM receiver) connector A (32P) and the gauge control module connector B (28P).

6. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and gauge control module connector B (28P) according to the table.

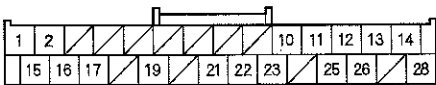
AcuraLink control unit connector	Gauge control module 28P connector	Wire color
A7	B16	WHT
A6	B15	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

GAUGE CONTROL MODULE CONNECTOR B (28P)



Wire side of female terminals

Is there continuity?

YES—Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver). If all connections are OK, update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). ■

NO—Repair an open in the wire between the AcuraLink control unit (XM receiver) and the gauge control module. ■



DTC B2240: XM Antenna Error

1. Connect the HDS to the DLC (see page 23-260).
2. Clear the DTC with the HDS.
3. Turn the ignition switch to LOCK (0), then turn it to ON (II), and wait 30 seconds or more.
4. Check for DTC with the HDS.

Is DTC B2240 indicated?

YES—Go to step 5.

NO—Intermittent failure, the XM antenna is OK at this time. Check for poor connections or loose terminals at the AcuraLink control unit (XM receiver) and the XM antenna. ■

5. Check the XM antenna lead connection at the AcuraLink control unit (XM receiver) and at the XM antenna.

Is it connected properly?

YES—Substitute a known-good XM antenna (see page 23-116), and recheck. If the symptom/indication goes away, replace the original XM antenna (see page 23-116). If the symptom/indication is still present update the AcuraLink control unit if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (see page 23-111). ■

NO—Reconnect the connector, and recheck the DTC. ■

DTC B2248: HIP Power Supply Abnormal (more than 16 V)

1. Connect the HDS to the DLC (see page 23-260).
2. Clear the DTC with the HDS.
3. Turn the ignition switch to LOCK (0), then turn it to ON (II).
4. Do the alternator and regulator troubleshooting (see page 4-30).

Is the charging system OK?

YES—Go to step 5.

NO—Repair the charging system. ■

5. Check for DTC with the HDS.

Is DTC B2248 indicated?

YES—Substitute a known-good AcuraLink control unit and recheck. If the symptom/indication goes away, replace the original AcuraLink control unit (see page 23-111).

NO—Intermittent failure, HIP is OK at this time. ■

DTC Troubleshooting (cont'd)

DTC B2249: HIP Power Supply Abnormal (less than 9 V)

1. Connect the HDS to the DLC (see page 23-260).
2. Clear the DTCs with the HDS.
3. Turn the ignition switch to LOCK (0), then turn it to ON (II).
4. Check for DTCs with the HDS.

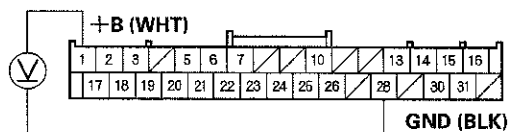
Is DTC B2249 indicated?

YES—Go to step 5.

NO—Intermittent failure, HIP is OK at this time. ■

5. Turn the ignition switch to LOCK (0).
6. Measure the voltage between AcuraLink control unit connector A (32P) terminal No. 1 and No. 28.

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there 9 V or less?

YES—Faulty battery or +B line. ■

NO—Substitute a known-good AcuraLink control unit (see page 23-111), and recheck. If the symptom/indication goes away, replace the original AcuraLink control unit (see page 23-111).

Symptom Troubleshooting

AcuraLink services do not work

NOTE:

- Check the vehicle battery condition first (see page 22-90).
- Check for and resolve all F-CAN and B-CAN DTCs.
- If you can only tune to channel 000, 001, 174, and 247, make sure that the audio unit is set to the channel mode (see owner's manual). If it is set to the channel mode, call XM radio customer support and check the account activation status.

1. Call Acura Client Services and verify the unit status. Request ACS to send an activation signal to the vehicle. Park the vehicle outside, and let the vehicle idle for about an hour.

Does the AcuraLink service application work?

YES—The vehicle is OK at this time. ■

NO—Go to step 2.

2. Check the No. 21 (10 A) fuse and the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box.

Are the fuses OK?

YES—Go to step 3.

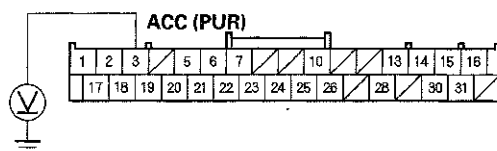
NO—Replace the fuse(s), and recheck. ■

3. Turn the ignition switch to ON (II).



4. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 3 and body ground.

**ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)**



Wire side of female terminals

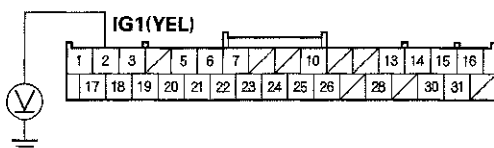
Is there battery voltage?

YES—Go to step 5.

NO—Repair an open in the wire(s) between the AcuraLink control unit (XM receiver) and the No. 32 (10 A) fuse in the driver's under-dash fuse/relay box. ■

5. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 2 and body ground.

**ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)**



Wire side of female terminals

Is there battery voltage?

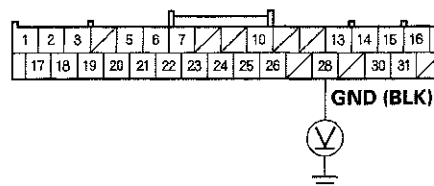
YES—Go to step 6.

NO—Repair an open in the wire(s) between the AcuraLink control unit (XM receiver) and the No. 21 (10 A) fuse in the driver's under-dash fuse/relay box. ■

6. Turn the ignition switch to LOCK (0).

7. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) terminal No. 28 and body ground.

**ACURALINK CONTROL UNIT (XM RECEIVER)
CONNECTOR A (32P)**



Wire side of female terminals

Is there less than 0.2 V?

YES—Check for loose wires or poor connections at AcuraLink control unit (XM receiver) connector A (32P). If the connections are good, substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111), and recheck. If the symptom/indication goes away, replace the original AcuraLink control unit (XM receiver) (see page 23-111). If the symptom/indication still does not go away, substitute a known-good PCM, rewrite the VIN and recheck. ■

NO—Check for an open or high resistance in the wire between the AcuraLink control unit (XM receiver) and body ground. If the wire is OK, check for poor ground at G602 (see page 22-42). ■

AcuraLink

Symptom Troubleshooting (cont'd)

AcuraLink messages cannot be heard or are weak

1. Turn the ignition switch to ON (II).
2. Check that the audio system is operating normally and the speaker sound levels are normal from different audio sources (AM/FM, XM, CD/DVDs, Navigation, etc.).

Does the audio system work normally and is the audio output from the speaker normal when playing various audio sources?

YES—Go to step 3.

NO—Refer to the audio system symptom troubleshooting. ■

3. Check the audio system when AcuraLink messages are played.

Does the audio system mute when AcuraLink messages are being played?

YES—If audio system mutes and plays the messages at a normal volume, the system is OK at this time. If the messages are weaker than normal, go to step 4.

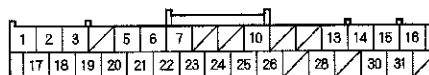
NO—Check for B-CAN codes. Repair any B-CAN codes, then retest. If there are no B-CAN codes, substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111).

4. Turn the ignition switch to LOCK (0).
5. Disconnect AcuraLink control unit (XM receiver) connector A (32P), audio unit connector C (14P), HandsFreeLink control unit 28P connector and USB adapter unit connector A (14P).

6. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and audio unit connector C (14P) according to the table.

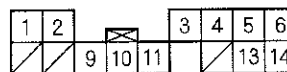
AcuraLink control unit connector	Audio Unit Connector	Wire color
A13	C5	GRN
A14	C13	BLK
A15	C6	WHT
A16	C14	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity?

YES—Go to step 7.

NO—There is an open in the wire(s) between the AcuraLink control unit (XM receiver) and the audio unit. Replace the affected shielded harness. ■



7. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and body ground according to the table.

	AcuraLink control unit connector	Wire color
AUDIO R+	A13	GRN
AUDIO R-	A14	BLK
AUDIO L+	A15	WHT
AUDIO L-	A16	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

Is there continuity?

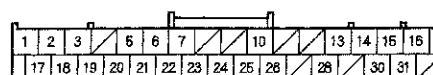
YES—There is a short to body ground in the wire(s) between the AcuraLink control unit (XM receiver) and the audio unit. Replace the affected shielded harness. ■

NO—Go to step 8.

8. Check for continuity between AcuraLink control unit (XM receiver) connector A (32P) and audio unit connector C (14P) according to the table.

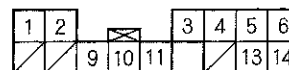
From terminal	To terminals
Audio unit connector	AcuraLink control unit connector
C4	A13 (GRN), A14 (BLK), A15 (WHT), A16 (RED)

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)



Wire side of female terminals

AUDIO UNIT CONNECTOR C (14P)



Wire side of female terminals

Is there continuity between any of the terminals?

YES—There is a short in the wire(s) between the AcuraLink control unit (XM receiver) and the audio unit. Replace the affected shielded harness. ■

NO—Go to step 9.

(cont'd)

AcuraLink

Symptom Troubleshooting (cont'd)

9. Turn the ignition switch to ON (II).
10. Measure the voltage between AcuraLink control unit (XM receiver) connector A (32P) and body ground according to the table.

	AcuraLink control unit connector	Wire color
AUDIO R+	A13	GRN
AUDIO R-	A14	BLK
AUDIO L+	A15	WHT
AUDIO L-	A16	RED

ACURALINK CONTROL UNIT (XM RECEIVER) CONNECTOR A (32P)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Wire side of female terminals

Is there less than 0.2 V?

YES—Go to step 11.

NO—There is a short to power in the wire(s) between the AcuraLink control unit (XM receiver) and the audio unit. Replace the affected shielded harness. ■

11. Disconnect the stereo amplifier connector C (23P) and the HandsFreeLink control unit 28P connector.
12. Check for continuity between stereo amplifier connector C (23P) and the HandsFreeLink control unit 28P connector according to the table.

Stereo amplifier connector	HandsFreeLink control unit connector	Wire color
C12	No. 11	GRN
C13	No. 25	RED

STEREO AMPLIFIER CONNECTOR C (23P)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Wire side of female terminals

HANDSFREELINK CONTROL UNIT 28P CONNECTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Wire side of female terminals

Is there continuity?

YES—Go to step 13.

NO—There is an open in the wire(s) between the stereo amplifier and the HandsFreeLink control unit. Replace the affected shielded harness. ■



13. Check for continuity between stereo amplifier connector C (23P) and body ground according to the table.

	Stereo amplifier connector	Wire color
TELM SIG+	C12	GRN
TELM SIG-	C13	RED

STEREO AMPLIFIER CONNECTOR C (23P)

2	3	4	5					9	10
12	13	14	15	16	17	18	19	22	23

Wire side of female terminals

Is there continuity?

YES—There is a short to body ground in the wire(s) between the stereo amplifier connector and the HandsFreeLink control unit. Replace the affected shielded harness. ■

NO—Go to step 14.

14. Check for continuity between stereo amplifier connector and the HandsFreeLink control unit 28P connector according to the table.

From terminal	To terminals
HandsFreeLink control unit connector No. 26	Stereo amplifier connector C12 (GRN), C13 (RED)

STEREO AMPLIFIER CONNECTOR C (23P)

2	3	4	5					9	10
12	13	14	15	16	17	18	19	22	23

Wire side of female terminals

HANDSFREELINK CONTROL UNIT 22P CONNECTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28

Wire side of female terminals

Is there continuity between the terminals?

YES—There is a short to the wire(s) between the stereo amplifier connector and the HandsFreeLink control unit. Replace the affected shielded harness. ■

NO—Go to step 15.

15. Substitute a known-good AcuraLink control unit (XM receiver) (see page 23-111), and recheck the function.

Does the problem go away?

YES—Update the AcuraLink control unit (XM receiver) if it does not have the latest software, then recheck. If the software is the latest, replace the AcuraLink control unit (XM receiver) (see page 23-111). ■

NO—Substitute a known-good HandsFreeLink control unit (see page 23-339), and recheck. If symptom/indication goes away, replace the original HandsFreeLink control unit (see page 23-339). If symptom/indication is still present, replace the audio unit (see page 23-106). ■

AcuraLink Control Unit Update

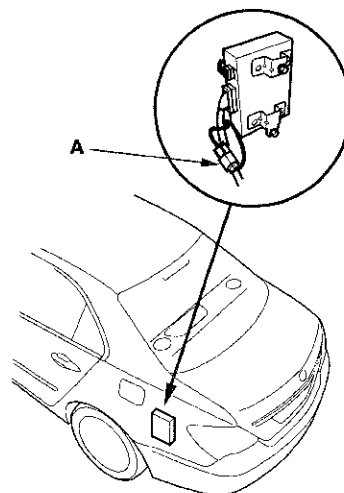
Special Tools Required

- GNA600 kit and an iN workstation with AcuraLink update software
- 256MB PCMCIA Memory Card
- AcuraLink Reprogramming Cable

NOTE:

- Whenever you install a new AcuraLink control unit, you must update the control unit with the latest software.
- The GNA600 is the only tool currently available to update the AcuraLink control unit.
- If you are updating a control unit in a new vehicle, make sure all the fuses are installed.
- Make sure the iN workstation has the latest HDS software installed. (The AcuraLink update software is contained in the HDS update CD.)
- The update may take up to 60 minutes.
- You cannot update an AcuraLink control unit with its current or previous software versions. It will only accept a new software version.
- Before you update the AcuraLink control unit, test the vehicle battery (see page 22-90), and only proceed if the results are good. Make sure the battery is connected to a battery booster (not a battery charger) while updating the control unit. If the battery is not in good condition, or it dies during the updating procedure, you may damage the AcuraLink control unit.
- If you encounter errors in the software, follow the on-screen instructions, or if necessary, reboot the iN workstation, and try again.
- There are five process involved in updating the AcuraLink control unit.
 - Setting up the GNA600
 - Capturing the current program ID from the AcuraLink control unit
 - Download the new software to the GNA600
 - Update the software in the vehicle AcuraLink control unit
 - Confirm the AcuraLink self-diagnosis

- Do the update with the ignition switch turned to LOCK (0).
- To prevent damage to the AcuraLink control unit, do not operate anything electrical (brakes, head lights, etc.) during the update.
- Check any official Honda service website for more service information about updating the AcuraLink control unit.
- To update the AcuraLink control unit, you must connect the GNA600 to the AcuraLink connector (A), not the DLC.
- Before you update an AcuraLink control unit, read the procedure. The order of connecting and disconnecting connectors is critical, and some steps must be done within a specified period of time. If the steps are not followed exactly, you may have to repeat the procedure from the start, and in some cases, you may damage the GNA600 or the AcuraLink control unit.



1. Make sure the ignition switch is turned to LOCK (0).
2. Open the trunk lid and remove rear shelf under cover (see page 20-83).
3. Launch the AcuraLink Update program, and follow the on-screen instructions to complete the update.

NOTE: If the software in the AcuraLink control unit is the latest, disconnect the update tool from the AcuraLink connector. If the update is part of a troubleshooting or a repair procedure, return to that procedure and continue troubleshooting or repairing the vehicle.