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	AL PHARE III. AL INIDEX	242

Reading Wiring Diagrams

CONTENTS OF WIRING DIAGRAMS

• This manual comprises the sections shown below.

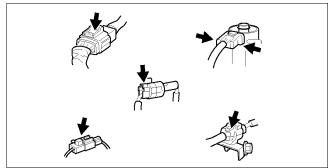
	NEW				PREVIOUS	
		R P	Reading wiring diagrams Electrical system general procedures	A how-to on using and reading wiring diagrams, using test equipment, checking harness and connectors, and finding trouble spots	GI	General information of wiring diagrams
	GENERAL INFORMATION	E	Electrical wiring schematic	Shows main fuses and other fuses for each system	w	Electrical wiring schematic
Г		00 F	Fuse box complete wiring system	Shows internal circuits and	FΒ	Fuse block complete wiring system
		J	Joint box/Junction box complete wiring system	connectors	JB	Joint box complete wiring system
		С	Common connector list	Shows connectors common throughout system	X	Common connector list
		G	Ground point	Ground routes from and to the battery	Y	Ground point
		D	Data link connector		כ	Data link connector
			Cooling system Fuel system		Α	Charging system/Starting system
		17	-		В	Engine control system
	ENGINE		Ignition system		С	Gauge control system
	LIVOINE		Starting system		D	Wiper system
			Cruise control system		E	
			1		_	Lighting system
	OLIODENIO DE	_	Control system		F	Signal system
			Wheel and tires 4-Wheel drive	Shows circuit and connector diagrams and component and	G	Air-conditioning system
	BRAKES		Antilock brake system Traction control system		Н	Transmission control/Key interlock/Shift-lock system
		_	Dynamic stability control Automatic transmission		ı	Interior light system
	TRANSMISSION/	14 05	Automatic transmission shift mechanism Automatic transaxle		J	Audio/Radio system
		18	Automatic transaxle shift mechanism Electric power steering (EPS)		K	Power window/Power door lock system
	STEERING	016	Power steering	_		lock system
	HEATER, VENTILATION & AIR CONDITIONING (HVAC)		Control system		L	Remote control mirror system
	RESTRAINTS	08	Air bag system Seat belt		M	Sliding sunroof system
	BODY & ACCESSORIES	12 13	Glass/Windows/Mirrors Seats		0	Anti-lock brake system
		14	Security and locks Sunroof		N	Electric power steering (EPS)
		18	Lighting systems Wiper/Washer system		Р	Power seat/Seat warmer system
		20	Entertainment Power systems		Q	Auto cruise control system
/			Instrumentation/Driver info.		s	Air bag system
1.			Control system		o T	Others
\			-	Gives page number of circuit		
		Al	Alphabetical Index	diagram for each component	ΑI	Alphabetical Index

Depending on the vehicle model, the actual sections may be different.

Electrical System General Procedures

00P

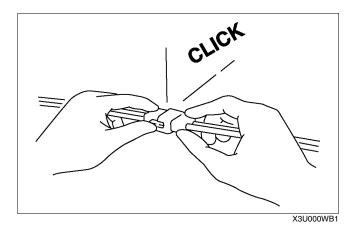
 Connectors can be disconnected by pressing or pulling the lock lever as shown.



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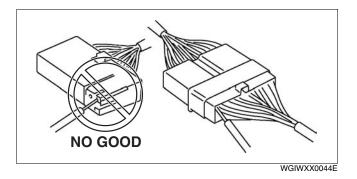
Locking Connector

 When locking connectors, listen for a click indicating they are securely locked.



Inspection

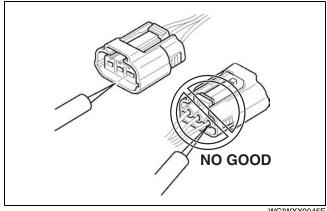
 When a tester is used to inspect for continuity or measuring voltage, insert the tester probe from the wiring harness side.



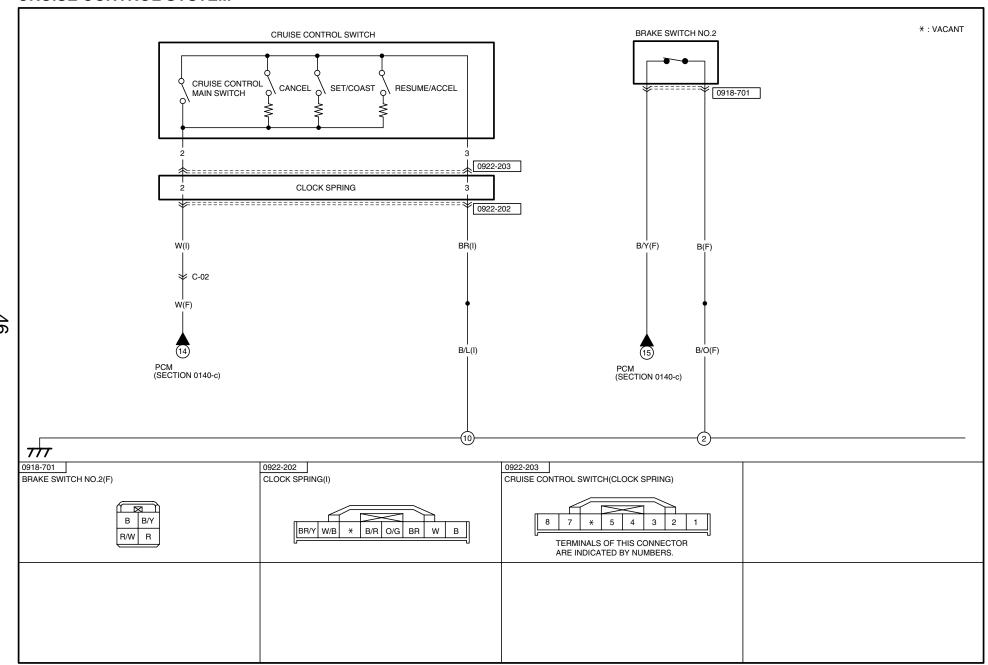
 Inspect the terminals of waterproof connectors from the connector side since they cannot be accessed from the wiring harness side.

Caution

 To prevent damage to the terminal, wrap a thin wire around the tester probe before inserting into terminal.

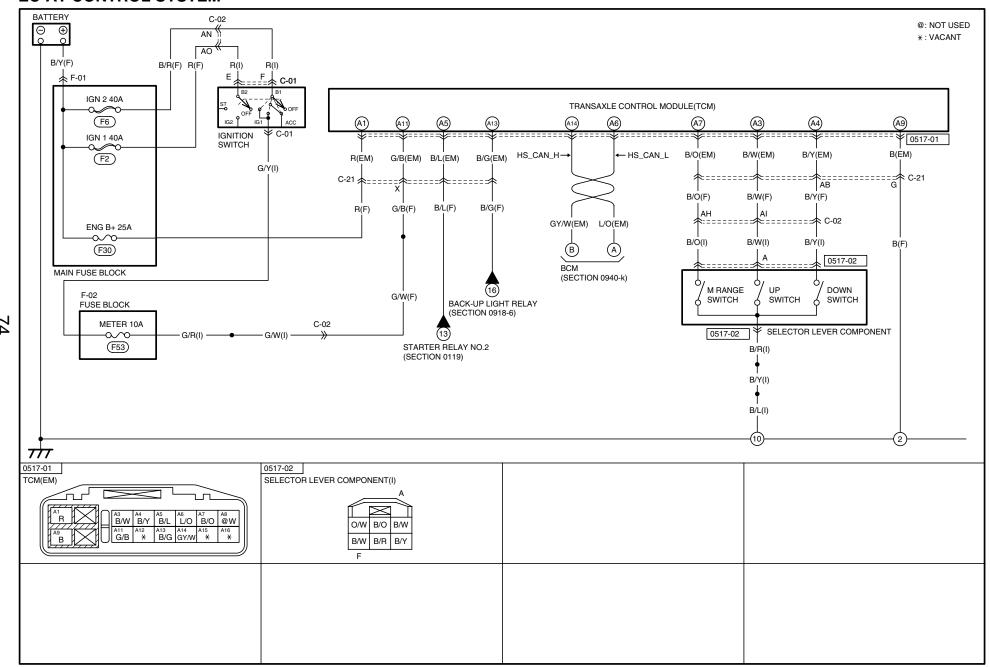


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01 ENGINE

40 CONTROL SYSTEM

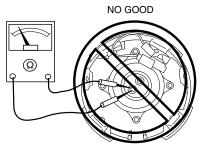


AIR BAG SYSTEM

AIR BAG SYSTEM SERVICE WARNINGS id081000800200

Air Bag Module Inspection

 Ilnspecting an air bag module using a tester can operate (deploy) the air bag module, which may cause serious injury. Do not use a tester to inspect an air bag module. Always use the on-board diagnostic function to diagnose the air bag module for malfunctions.



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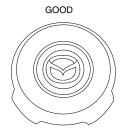
Air Bag Module Handling

- Before removing the air bag module or disconnecting the air bag module connector, always turn the ignition switch to the LOCK position, disconnect the negative battery cable, and then wait for 1 min or more to allow the backup power supply of the SAS control module to deplete its stored power.
- Handling a live (undeployed) air bag module that is pointed toward your body could result in serious injury if the air bag module were to accidentally operate (deploy). When carrying a live (undeployed) air bag module, point the deployment surface away from your body to lessen the chance of injury in case it operates (deploys).



acxuuw0000117

 A live (undeployed) air bag module placed with its deployment surface to ground is dangerous. If the air bag module were to accidentally operate (deploy), it could cause serious injury. Always place a live (undeployed) air bag module with its deployment surface up.





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Side Air Bag Module Handling

- Before removing the side air bag module or disconnecting the side air bag module connector, always turn the ignition switch to the LOCK position, disconnect the negative battery cable, and then wait for 1 min or more to allow the backup power supply of the SAS control module to deplete its stored power.
- When a side air bag module operates (deploys) due to a collision, the interior of the seat back (pad, frame, trim) may become damaged. If a side air bag does not operate (deploy) normally from a seat back that has been reused, a serious accident may result. After a side air bag has operated (deployed), always replace both the side air bag module and the seat back (pad, frame, trim) with new parts. After servicing, verify that the seat operates normally and that the wiring harness is not caught.

Seat Weight Sensor Handling

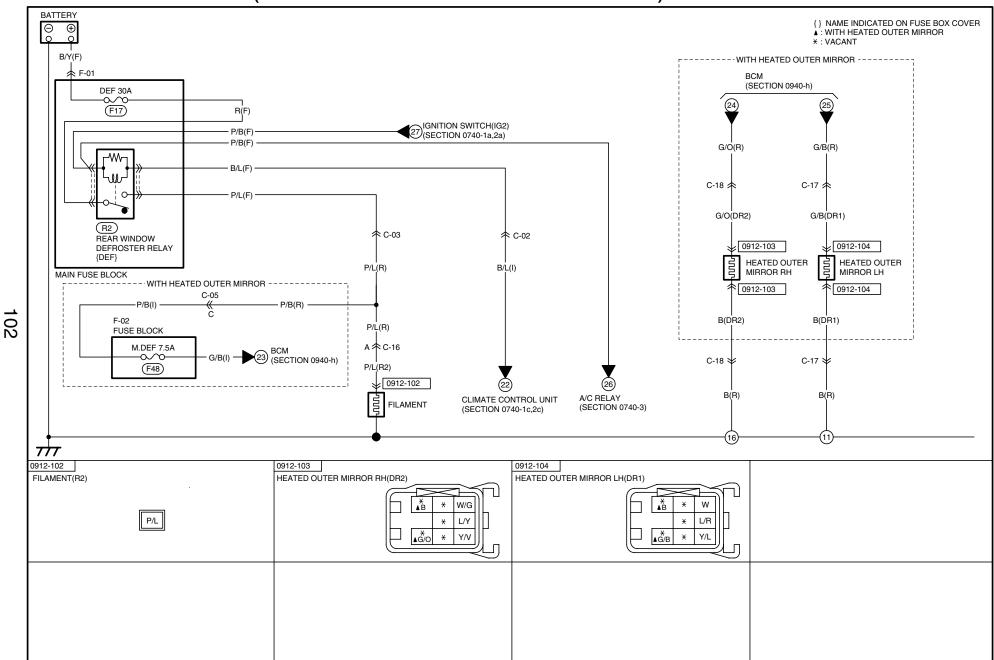
• The passenger-side seat and the seat weight sensor may become deformed or otherwise damaged due to operation (deployment) of the front or side air bag in an accident. This may cause the passenger sensing function to operate improperly and result in a serious accident. Always replace the passenger seat and seat weight sensor with new ones after the front or side air bags have operated (deployed). After servicing, verify that the seat operates normally and that the wiring harness is not caught. If the collision is not hard enough to cause the front or side air bags to operate (deploy), inspect the seat weight sensor and replace it if there is any malfunction.

SAS Control Module Handling

- Removing the SAS control module or disconnecting the SAS control module connector with the ignition switch at the ON position can activate the sensor in the SAS control module and operate (deploy) the air bags and pre-tensioner seat belts, which may cause serious injury. Before removing the SAS control module or disconnecting the SAS control module connector, always turn the ignition switch to the LOCK position, disconnect the negative battery cable, and then wait for 1 min or more to allow the backup power supply of the SAS control module to deplete its stored power.
- Connecting the SAS control module connector with the SAS control module not securely fixed to the vehicle is dangerous. The sensor in the SAS control module could send an electrical signal to the air bag modules and pre-tensioner seat belts. This will operate (deploy) the air bags and pre-tensioner seat belts, which may result in serious injury. Therefore, before connecting the connector, securely fix the SAS control module to the vehicle.
- Because a sensor is built into the SAS control module, once the air bags and pre-tensioner seat belts have operated (deployed) due to a collision or other causes, the SAS control module must be replaced with a new one even if the used one does not have any visible external damage or deformation. The used SAS control module may have been damaged internally, which may cause improper operation. If the SAS control module is reused, the air bags and pre-tensioner seat belts may not operate (deploy) normally, which could result in a serious accident. Always replace the SAS control module with a new one. The SAS control module cannot be bench-checked or self-checked.

Crash Zone Sensor Handling

- Removing the crash zone sensor or disconnecting the crash zone sensor connector with the ignition switch at the ON position can activate the crash zone sensor and operate (deploy) the air bags and pre-tensioner seat belts, which may cause serious injury. Before removing the crash zone sensor or disconnecting the crash zone sensor connector, always turn the ignition switch to the LOCK position, disconnect the negative battery cable, and then wait for 1 min or more to allow the backup power supply of the SAS control module to deplete its stored power.
- If the crash zone sensor is subjected to shock or the sensor is disassembled, the air bags and pre-tensioner seat belts may accidentally operate (deploy) and cause injury, or the system may fail to operate normally and cause a serious accident. Do not subject the crash zone sensor to shock or disassemble the sensor.
- Because a sensor is built into the crash zone sensor, once the air bags and pre-tensioner seat belts have operated (deployed) due to a collision or other causes, the crash zone sensor must be replaced with a new one even if the used one does not have any visible external damage or deformation. If the crash zone sensor is reused, the air bags and pre-tensioner seat belts may not operate (deploy) normally, which could result in a serious accident. Always replace the crash zone sensor with a new one. The crash zone sensor cannot be bench-checked or self-checked.



SEAT WARMER

