GROUP

SEATS

41

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RESTRAINT SYSTEM— SUPPLEMENTAL AIR BAG41- SEAT AND SHOULDER SAFETY BELT41-	-58-1		.41-04-1

SECTION 41-04 Seats, Front

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VEHICLE APPLICATION

Capri.

DESCRIPTION

The front seats are singular bucket style units. The driver's seat incorporates mechanisms for a reclining seat back, lumbar adjustment, height adjustment and fore-and-aft movement. The passenger's seat incorporates mechanisms for a reclining seat back, and fore-and-aft movement only.

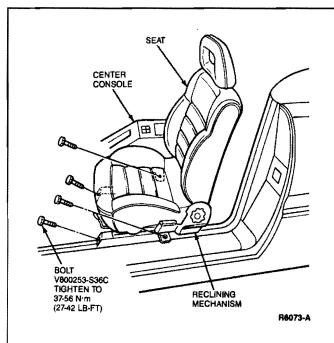
REMOVAL AND INSTALLATION

Seat

Removal

- Remove two bolts retaining front of seat assembly to floor.
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- 2. Remove two bolts retaining rear of seat to floor.
- 3. Carefully remove seat assembly from vehicle.



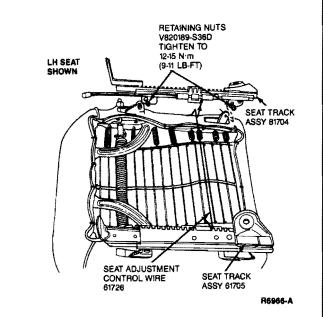
Installation

- Position seat assembly into vehicle.
- 2. Install two front bolts.
- 3. Install two rear bolts.
- Tighten bolts to 36-56 N·m (27-42 lb-ft).
- 5. Check all seat functions for proper operation.

Seat Track Assembly

Removal

- 1. Remove seat assembly as outlined.
- 2. Place seat upside-down on a clean work surface.
- Note position of seat adjustment control wire for proper installation and remove.
- 4. On RH seat, remove seat track spring.
- Remove nuts securing seat track to seat frame.
 Note position of seat adjustment for proper installation.
- 6. Remove seat track.



Installation

- Position seat track onto studs. Ensure adjustment position is equal on both seat tracks.
- Install retaining nuts. Tighten to 12-15 N·m (9-11 lb-ft).
- Install seat adjustment control wire as removed.
 NOTE: Improper installation of the seat adjustment wire can cause the adjustment unit to function improperly.

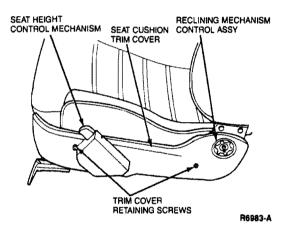
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- 4. On RH seat, install seat track spring.
- 5. Install seat as outlined.

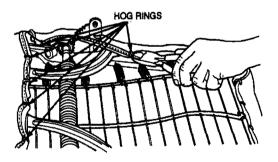
Seat Cover and Cushion

Removal

- Remove seat as outlined.
- 2. Remove seat back and tracks as outlined.
- Remove height adjustment control assembly as outlined (LH seat only).
- 4. Remove trim cover.

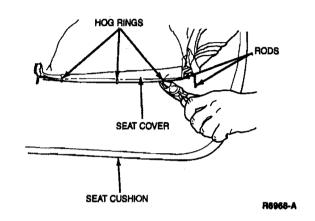


Cut and remove hog rings retaining cushion cover to seat frame.



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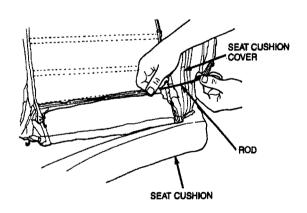
CAUTION: Some hog rings are connected to metal rods embedded in the seat cushion.
Use care when removing seat cover to prevent tearing rods from cushion.



- Carefully roll seat cover up and cut hog rings from seat cushion. Remove cushion cover.
- 7. Remove seat cushion, if necessary.

Installation

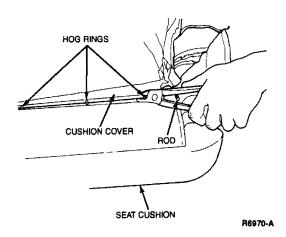
- Position cushion on seat frame, if removed.
- 2. Ensure rods are inserted in seat cushion cover.



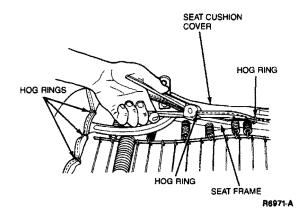
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 Position cushion cover and install hog rings to rods embedded in cushion.



 Fit cushion cover around seat frame and install hog rings.

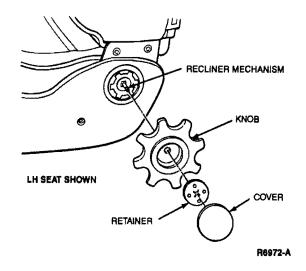


- 5. Install seat back and seat tracks as outlined.
- 6. Install trim cover.
- Install height control assembly as outlined (LH seat only).
- Install seat as outlined.

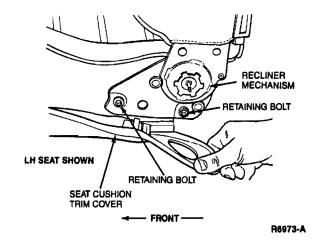
Seat Back

Removal

- Remove seat as outlined. Place seat on workbench.
- 2. Remove recliner knob, cover and retainer.



- Remove seat cushion trim cover retaining screws.
- Carefully pull back trim cover and remove seat back recliner retaining bolts. On RH seat only, disconnect seat track release cable.



Remove seat back retaining nut. Remove seat back.



LH SEAT SHOWN

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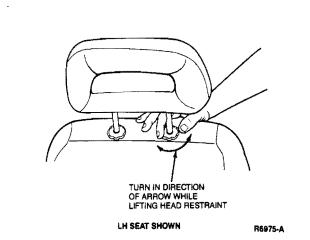
Installation

- Position seat back to seat cushion.
- Install retaining nut. Tighten to 15-19 N·m (11-14 lb-ft). Install reclining mechanism retaining bolts.
 Tighten to 31-41 N·m (23-30 lb-ft).
- On RH seat only, connect seat track release cable.
- 4. Install seat cushion trim cover retaining screws.
- 5. Install recliner knob, retainer and cover.

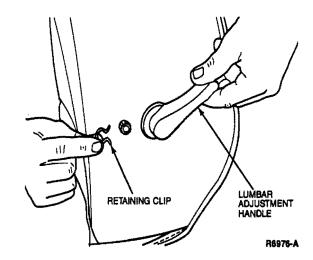
Seat Back Cover and Cushion

Removal

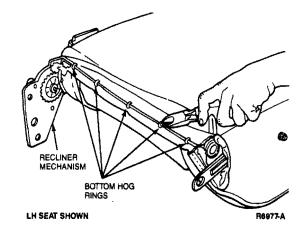
- 1. Remove seat back as outlined.
- Remove head restraint by turning retainer in direction of arrow and lifting off head restraint.



Remove lumbar adjustment handle by removing retaining clip (LH seat only).

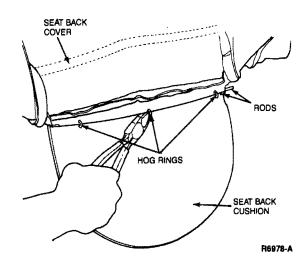


Remove bottom hog rings.

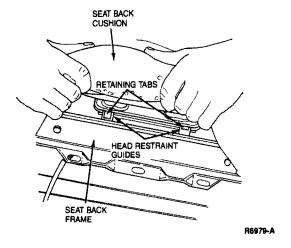


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 Carefully roll up cover and remove hog rings attached to rod in seat back cushion.



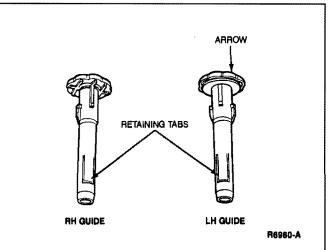
Release head restraint guide retaining tabs and remove guides.



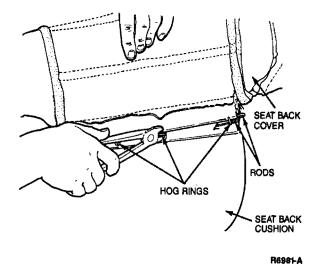
- 7. Remove seat back cover.
- 8. Remove cushion, if necessary.

Installation

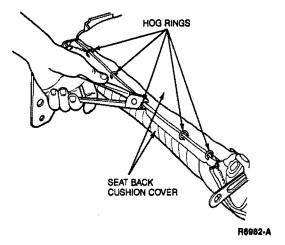
- 1. Position cushion to seat back frame.
- Position seat back cover to top of seat back. Install head restraint guides. Ensure arrow on LH guide points toward front. Ensure retaining tabs are secure.



Unroll cover down to rod in cushion. Ensure rod is in position in cover. Install hog rings.



4. Carefully unroll cover. Install bottom hog rings.



Install lumbar adjustment handle and retaining clip.

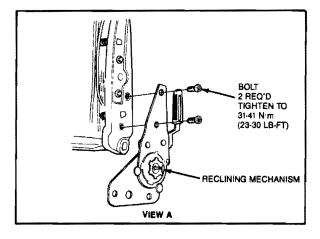
- 6. Install head restraint.
- 7. Install seat back as outlined.

8. Install seat as outlined.

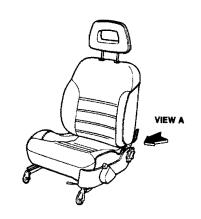
Reclining Mechanism

Removal

Remove seat as outlined.



- 2. Remove seat back as outlined.
- Remove bottom hog rings. Roll up cover to expose reclining mechanism.
- 4. Remove reclining mechanism and retaining bolts.



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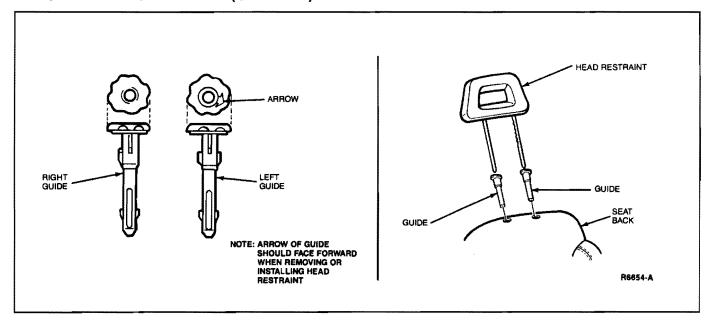
Installation

- Position reclining mechanism and install retaining bolts. Tighten bolts to 31-41 N·m(23-30 lb-ft).
- Position seat back cover and install bottom hog rings.
- 3. Install seat back to seat cushion as outlined.
- 4. Install seat as outlined.

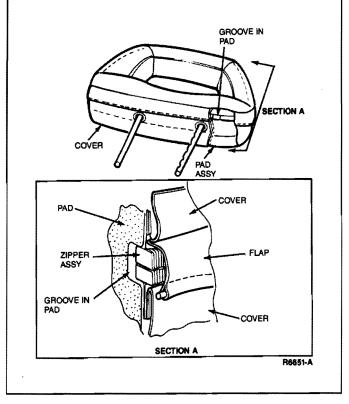
Head Restraint and Cover

Removal and Installation

 Rotate top of head restraint guide with arrow and lift head restraint off seat back.



- 2. Lift up on cover flap. Unzip cover.
- 3. Remove cover.
- To install, reverse Steps 1, 2 and 3.

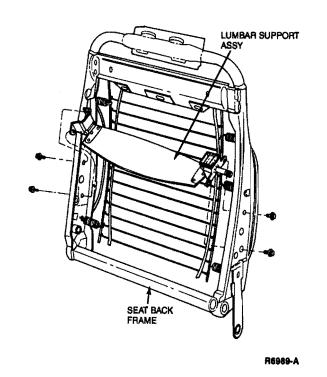


Lumbar Support Assembly, LH Seat Removal

I. Remove seat and seat back as outlined.

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- 2. Remove seat back cover as outlined.
- 3. Remove lumbar support and retaining bolts.



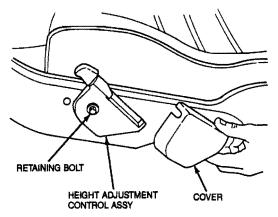
Installation

- Position lumbar support in seat back frame. Install retaining bolts.
- Install seat back cover as outlined.
- 3. Install seat back as outlined.
- 4. Install seat as outlined.

Seat Height Adjustment Mechanism Control Assembly, LH Seat

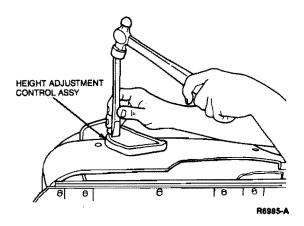
Removal

- 1. Set adjustment to highest position.
- 2. Remove seat as outlined. Place on work bench.
- 3. Remove height adjustment cover.
- Remove control assembly retaining bolt. DO NOT remove control assembly.

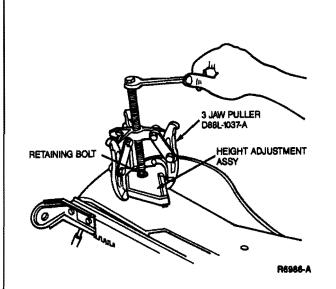


R6984-A

5. Mark position of control assembly on shaft.

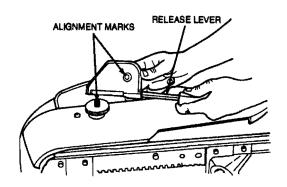


 Loosely install control assembly retaining bolt. If necessary, use 3-Jaw Puller D88L-1037-A or equivalent to remove assembly.



Installation

 Position alignment marks and install control assembly to shaft. Hold release lever in the extended position while installing.



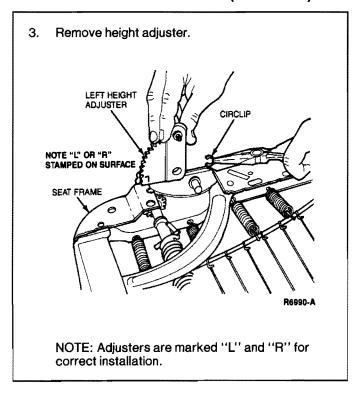
R6987-A

- 2. Install retaining bolt.
- 3. Install height adjustment cover.
- 4. Install seat as outlined.
- 5. Check for proper operation.

Seat Height Adjuster, LH Seat Removal and Installation

- 1. Remove seat as outlined.
- Remove seat track as outlined.

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4. To install, reverse Steps 1, 2 and 3.

SPECIFICATIONS

Description	Nem	Lb-Ft
Seat Retaining Bolts-to-Floor	36-56	27-42
Nuts Retaining Seat Track-to-Frame	12-15	9-11
Seat Back Retaining Nut	15-19	11-14
Reclining Mechanism Retaining Bolts	31-41	23-30

SPECIAL SERVICE TOOLS

Tool Number
D88L-1037-A

SECTION 41-20 Seats, Rear

SUBJECT	PAGE	SUBJECT	PAGE
DESCRIPTION		REMOVAL AND INSTALLATION (Cont'd.)	
REMOVAL AND INSTALLATION		Latch, Seat Back	41-20-5
Actuator Lock Set		Seat Back and Cover	41-20-1
Cable Actuator	41-20-7	Seat Cushion	4 1-20-4
Latch Cable, Seat Back	41-20-6	VEHICLE APPLICATION	41-20-1

VEHICLE APPLICATION

Capri.

DESCRIPTION

The rear seat back is hinged to allow access to the luggage compartment. The release actuator is located in the driver's door jamb. A cable connects the actuator to the latch.

A key-operated lock secures the release actuator to prevent entry to the luggage compartment.

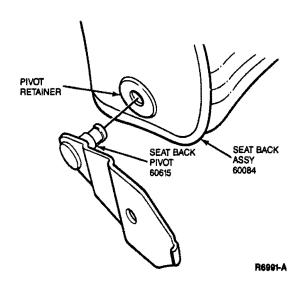
The rear seat cushion is secured to the floor by metal hooks that lock into floor brackets.

REMOVAL AND INSTALLATION

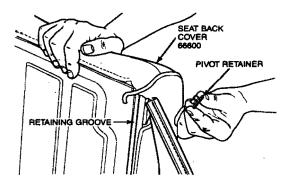
Seat Back and Cover

Removal

- Fold seat back down by pulling up on release actuator.
- Remove pivot retaining bolt and washer from each side and remove seat back.
- 3. Remove seat back pivots.

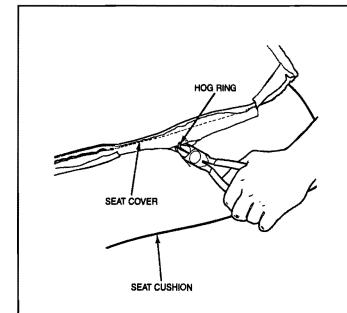


 Roll seat back cover out of retaining groove. Remove pivot retainers.



R6992-A

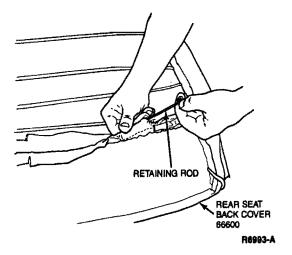
Roll back cover and cut hog rings.



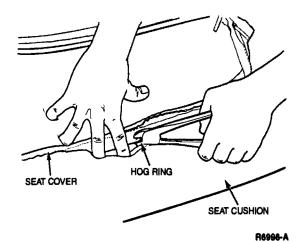
R6997-A

Installation

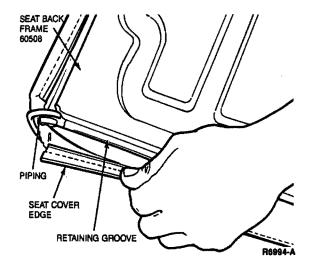
NOTE: If installing new seat cover, make sure retaining rod is in place in cover.



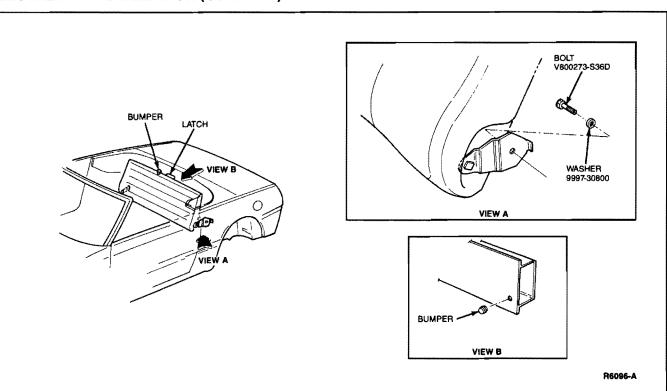
Position cover on cushion and install hog rings.



 Insert cover edges into retaining groove, and insert piping in corners of seat back frame.



- 3. Install seat back pivots and pivot retainers.
- 4. Install seat back assembly. Make sure bumpers are in place behind seat back.

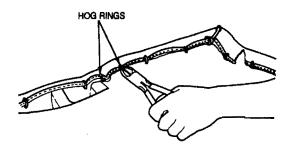


 Place seat back into position and check operation of latch. Adjust latch if necessary.

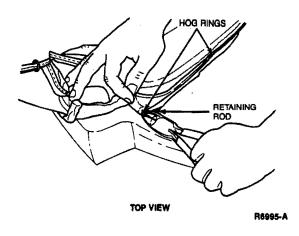
Seat Cushion

Removal

- Push down and back on seat cushion then lift to release seat cushion retaining hooks.
- Remove hog rings and seat cushion cover if necessary.

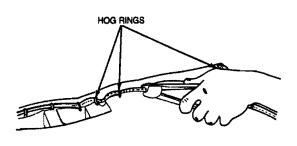


BOTTOM VIEW

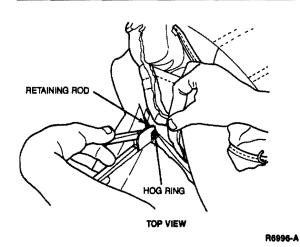


Installation

1. Install cover with hog rings if removed.



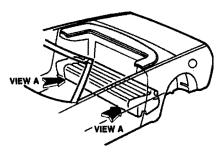
BOTTOM VIEW

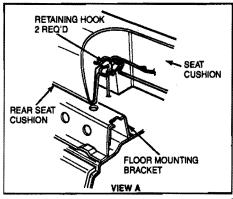


Position safety belts.

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 Position seat cushion and push down. Pull forward and up to make sure retaining hooks are locked in place.



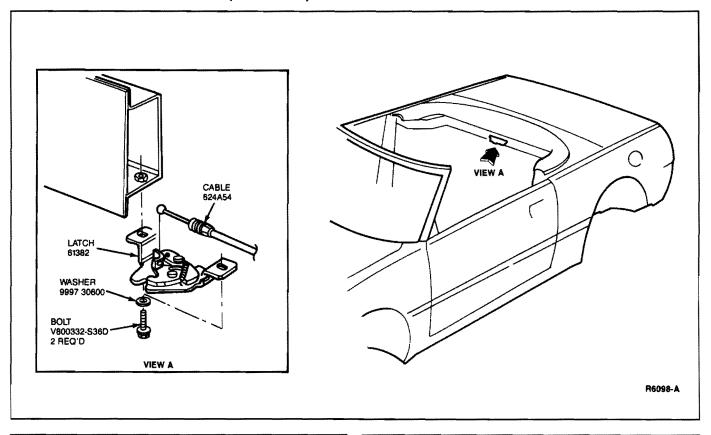


R6097-A

Latch, Seat Back

Removal

- Fold seat back down by pulling up on release actuator (work through luggage compartment to manually release latch if required).
- 2. Remove two bolts and latch.
- Disengage cable end.



Installation

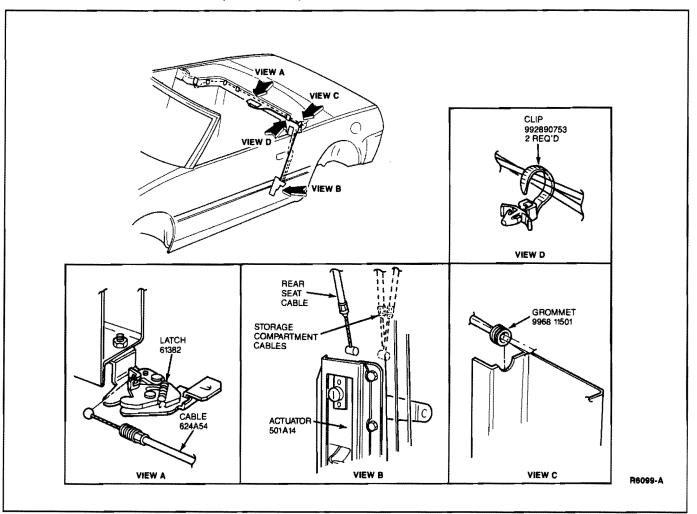
- 1. Connect cable end.
- 2. Install latch with two bolts.
- 3. Place seat back into position and check operation of latch. Adjust latch if necessary.

Latch Cable, Seat Back

Removal

- Fold seat back down by pulling up on release actuator (work through luggage compartment to manually release latch if required).
- 2. Disengage cable end from latch.
- 3. Remove actuator as outlined.
- 4. Disengage cable end from actuator.
- 5. Remove clips and cable assembly.

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Installation

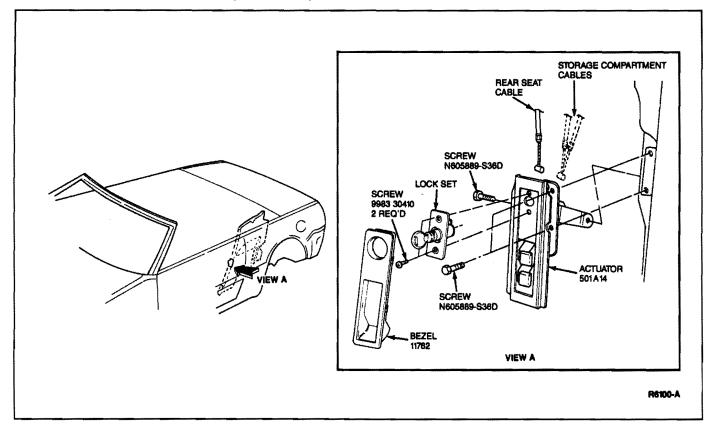
- Make sure grommets are in place and route cable assembly.
- 2. Install clips.
- 3. Connect cable end to actuator.
- 4. Install actuator as outlined.
- Connect cable end to latch.
- Place seat back into position and check operation of latch. Adjust latch if necessary.

Cable Actuator

Removal

- 1. Remove actuator bezel.
- Remove safety belt cover screw and lift cover up to access quarter trim panel screw.
- 3. Remove trim panel screw.
- 4. Disengage door weatherstrip from quarter panel.
- 5. Position quarter trim panel out of way.
- 6. Remove screws and actuator assembly.
- Position actuator to access cables and disengage cables from actuator.
- 8. Remove actuator.

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Installation

- Install actuator.
- 2. Connect cables to actuator.
- 3. Position actuator assembly and install screws.
- 4. Check actuator for proper operation.
- 5. Install quarter trim panel and door weatherstrip.
- 6. Install bezel.

Actuator Lock Set

Removal

Remove actuator bezel.

- 2. Turn lock set to locked position.
- Remove two retaining screws from lock set and remove lock set.

Installation

- 1. Install lock set and install two retaining screws.
- 2. Unlock lock set and check operation.
- 3. Install actuator bezel.

SECTION 41-50 Seat and Shoulder Safety Belts

SUBJECT	PAGE	SUBJECT	PAGE
ADJUSTMENTS	41-50-2	REMOVAL AND INSTALLATION	
CLEANING		Buckle Assembly, Front	41-50-2
Belt Webbing	41-50-5	Retractor and Harness Assembly, Front	
DESCRIPTION		Retractor and Harness Assembly, Rear	
MAJOR SERVICE OPERATIONS		Seat Buckle, Rear	41-50-4
		VEHICLE APPLICATION	41-50-1
Cafety Relt Maintenance	41-50-4		

VEHICLE APPLICATION

Capri.

DESCRIPTION

A continuous loop, single retractor restraint system is used in both front and rear seating positions on all models.

The seat and shoulder safety belts are factory installed. If seat belts or shoulder safety belts are removed for any reason, they must be installed as outlined.

WARNING: SAFETY BELT ASSEMBLIES MUST BE INSTALLED IN MATCHED SETS AS RECEIVED AND MUST NOT BE INTERCHANGED BETWEEN VEHICLE MODELS.

IF A COMPONENT PORTION OF A SEAT BELT OR SHOULDER SAFETY BELT ASSEMBLY IS NON-FUNCTIONAL OR DAMAGED, THE ENTIRE ASSEMBLY (BUCKLE, TONGUE AND SHOULDER HARNESS PORTIONS) MUST BE REPLACED. THE REPLACEMENT ASSEMBLY MUST BE INSTALLED AS A MATCHED SET AND THE MANUFACTURER'S IDENTIFICATION ON THE LABEL ON THE RETRACTOR WEBBING MUST MATCH THE MANUFACTURER'S IDENTIFICATION ON THE BUCKLE'S BASE. UNDER NO CIRCUMSTANCES ARE SEAT BELT OR SHOULDER SAFETY BELT COMPONENTS TO BE REPLACED AS INDIVIDUAL COMPONENTS.

WARNING: CHILDREN HAVING A SEATING HEIGHT GREATER THAN 71 CM (28 INCHES), WHICH IS THE MAXIMUM HEIGHT FOR USE OF TOT-GUARD, SHOULD USE THE SAFETY BELTS PROVIDED WITH THE VEHICLE. HOWEVER, THE SHOULDER BELT PORTION OF THE LAP SHOULDER SAFETY BELT SHOULD NOT BE USED IF IT CONTACTS THE CHILD'S FACE, CHIN, NECK OR THROAT. IF THE SHOULDER BELT CONTACTS OR REMAINS IN FRONT OF THE CHILD'S FACE, CHIN, NECK OR THROAT, PLACE THE SHOULDER PORTION BEHIND THE CHILD'S BACK. FAILURE TO FOLLOW THIS PRECAUTION CAN INCREASE THE RISK OR SEVERITY OF INJURY IN EVENT OF A COLLISION.

WARNING: ALL VEHICLE OCCUPANTS, INCLUDING PREGNANT WOMEN, SHOULD WEAR SAFETY BELTS FOR MAXIMUM PROTECTION IN THE EVENT OF A COLLISION. ALL VEHICLE OCCUPANTS, INCLUDING PREGNANT WOMEN, SHOULD BE SURE THE LAP SAFETY BELT PORTION OF THE LAP-SHOULDER BELT IS FITTED SNUGLY AND AS LOW AS POSSIBLE AROUND THE HIPS, NOT THE WAIST. SHOULDER BELTS SHOULD ALSO BE PROPERLY ADJUSTED FOR MINIMUM SLACK. FAILURE TO PROPERLY UTILIZE THE SAFETY BELTS MAY INCREASE THE CHANCE AND/OR SEVERITY OF INJURY IN THE EVENT OF A COLLISION.

WARNING: ACCORDING TO ACCIDENT STATISTICS, PROPERLY RESTRAINED CHILDREN ARE SAFER IN THE REAR SEAT THAN IN THE FRONT SEAT. FOR YOUNG CHILDREN, INFANT AND CHILD RESTRAINTS SHOULD BE OBTAINED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER OF THE INFANT AND CHILD RESTRAINT. FOR CHILD RESTRAINT INFORMATION REFER TO SECTION 41-52. CHILD RESTRAINT USE IS REQUIRED BY LAW.

NOTE: Safety belt assemblies must be replaced after they have been subjected to loading by occupants in a collision.

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ADJUSTMENTS

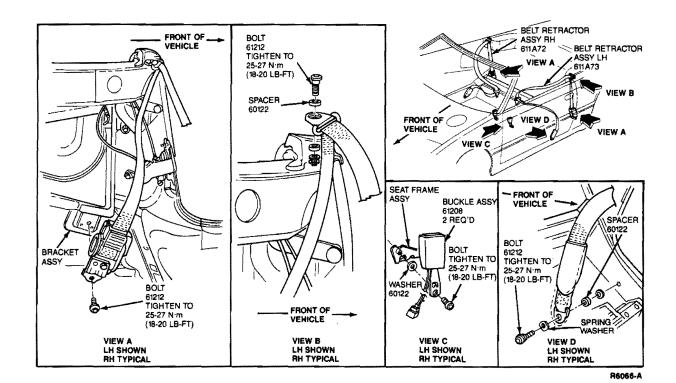
Refer to the Owner Guide for safety belt adjustment procedures.

REMOVAL AND INSTALLATION

Retractor and Harness Assembly, Front Removal

- Remove interior trim to gain access to retractor. Refer to Section 45-03.
- 2. Remove bolt, washer and retractor.

- Remove cover and remove bolt, sash guide pivot, spacer and lockwasher at door opening.
- Remove bolt, spring washer anchor, spacer and lockwasher.
- 5. Remove retractor and harness assembly.



Installation

- Install retractor and harness assembly with washer and bolt as shown. Tighten bolt to 25-27 N·m (18-20 lb-ft).
- Install sash guide pivot with lockwasher, spacer, and bolt as shown. Tighten bolt to 25-27 N-m (18-20 lb-ft).
- Install anchor with lockwasher, spacer, spring washer and bolt as shown. Tighten bolt to 25-27 N·m (18-20 lb-ft).
- Install interior trim. Refer to Section 45-03.
- Verify proper operation of harness assembly, as outlined.

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Buckle Assembly, Front

Removal

- Remove front seat to gain access to front buckle bolt.
- Remove bolt and spring washer.

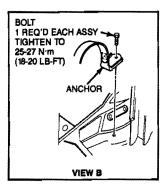
Installation

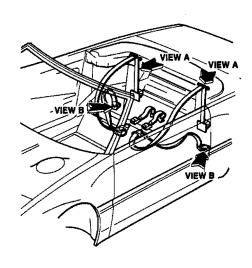
- Install front buckle with spring washer and bolt.
 Tighten bolt to 25-27 N·m (18-20 lb-ft).
- 2. Install front seat.
- Verify proper operation of harness assembly, as outlined.

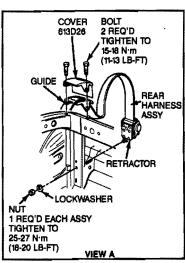
Retractor and Harness Assembly, Rear Removal

NOTE: It will be necessary to raise convertible top.

- Lower the rear seat back.
- 2. Remove the rear inner fender covers located in the convertible top storage compartment.
- Remove rear trim panel to access anchor end of harness. Refer to Section 45-03.
- 4. Remove nut, lockwasher and retractor assembly.
- 5. Remove two bolts, guide and cover.
- 6. Remove bolt and anchor end of harness.
- 7. Remove retractor and harness assembly.

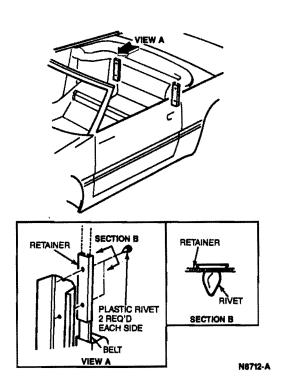






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8. Remove plastic rivets and retainers if necessary.



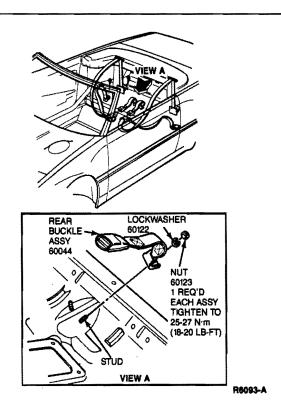
Installation

- 1. Install retainers with plastic rivets if removed.
- Position harness and retractor assembly.
- Install retractor with lockwasher and nut as shown. Tighten nut to 25-27 N⋅m (18-20 lb-ft).
- Install guide with two bolts. Tighten bolts to 15-18
 N-m (11-13 lb-ft).
- Install anchor end of harness with bolt. Tighten bolt to 25-27 N·m (18-20 lb-ft).
- 6. Install rear inner fender covers located in convertible top storage compartment.
- 7. Install rear trim panel. Refer to Section 45-03.
- Verify proper operation of harness assembly, as outlined.

Seat Buckle, Rear

Removal

- Remove rear seat cushion. Refer to Section 41-14.
- Remove nut and lockwasher securing rear seat buckle. Remove rear seat buckle from stud.



Installation

- Position rear seat buckle onto stud.
- Install lockwasher and nut. Tighten nut to 25-27 N-m (18-20 lb-ft).
- Install rear seat cushion. Refer to Section 41-14.
- Verify proper operation of harness assembly, as outlined.

MAJOR SERVICE OPERATIONS

Safety Belt Maintenance

Safety belt assemblies should be periodically inspected to make sure that they have not become damaged and that they remain in proper operating condition, particularly if they have been subjected to severe stress.

WARNING: ALL SAFETY BELT ASSEMBLIES INCLUDING RETRACTORS AND ATTACHING HARDWARE SHOULD BE INSPECTED AFTER ANY COLLISION. FORD RECOMMENDS THAT ALL SAFETY BELT ASSEMBLIES IN USE DURING A COLLISION BE REPLACED UNLESS THE COLLISION WAS MINOR AND A QUALIFIED TECHNICIAN FINDS THAT THE BELTS SHOW NO DAMAGE AND CONTINUE TO OPERATE PROPERLY. SAFETY BELT ASSEMBLIES NOT IN USE DURING A COLLISION SHOULD ALSO BE INSPECTED AND REPLACED IF EITHER DAMAGE OR IMPROPER OPERATION IS NOTED.

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MAJOR SERVICE OPERATIONS (Continued)

Before installing the new safety belt assembly, safety belt attaching areas must be inspected for damage and distortion. If the attaching points are damaged or distorted, the sheet metal must be worked back to its original shape and structural integrity.

Functional Test Procedure

Continuous Loop Shoulder/Lap Belt Test

 Driver will buckle up and proceed to a safe test area. If passenger safety belt must be tested, a passenger should be buckled into seat. (The passenger belt may be tested by the driver, providing that the driver has the ability to grasp the passenger belt and extend it approximately 660mm (26 inches) with no compromise to safe driving. This applies to the 8 km/h (5 mph) test only).

NOTE: The shoulder belt should not be extended fully to prevent the possibility of a false feeling (full extension vs. lockup).

 After reaching a safe area to perform sudden stops, the driver will attain a speed of approximately 8 km/h (5 mph). The driver should inform the passenger (if applicable) that he is preparing to make a severe brake application. At this time, both the driver and passenger should grasp their respective shoulder harnesses and prepare to lean slightly forward at the moment brake application is made.

WARNING: THE DRIVER AND PASSENGER MUST BE PREPARED TO BRACE THEMSELVES IN THE EVENT THE RETRACTOR DOES NOT LOCK.

 The driver will make a maximum brake application without tire skid. The maximum brake application should be on dry concrete or equivalent hard road surface, never on a wet or gravel road. The driver and passenger should lean forward slightly into the shoulder harness. At this instant, belts should lock up without webbing payout.

- 4. If there is a lockup of shoulder straps, safety belt assemblies are functioning properly. Should retractors fail to lock up at the 8 km/h (5 mph) speed, repeat the test at a constant 24 km/h (15 mph). This test must be performed with a passenger if passenger belt is to be tested.
 - NOTE: If the retractor of a new safety belt assembly has been bolted into a damaged or distorted mounting area, the new retractor could be warped and may not function. If this is the case, reshape the sheet metal and install another new complete safety belt assembly.
- If shoulder belts do not lock up at 24 km/h (15 mph) test, return the vehicle for service of the malfunctioning seat belts. If necessary, remove retractor and rework sheet metal at retractor's mounting surface. Install retractor assembly and test safety belt assemblies as previously stated.

CLEANING

Belt Webbing

Clean the belt webbing with any mild soap solution recommended for cleaning upholstery or carpets. Follow instructions provided with soap. DO NOT BLEACH OR DYE THE WEBBING, AS WEBBING MAY WEAKEN.

SECTION 41-52 Seat, Child Restraint—Tether Attachment

SUBJECT PAGE	SUBJECT PAGE
DESCRIPTION41-52-1	VEHICLE APPLICATION41-52-1
Tether Attachment41-52-1	

VEHICLE APPLICATION

Capri.

DESCRIPTION

Some child safety seats provide a tether strap which goes over the back of the vehicle seat and attaches to an anchorage in the floor or panel behind the rear seat. (Ford Tot-Guard Child Seat does not require a top tether strap.)

WARNING: WHEN USING ANY INFANT OR CHILD RESTRAINT SYSTEM IT IS IMPORTANT THAT YOU FOLLOW THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER CONCERNING ITS INSTALLATION AND USE. FAILURE TO FOLLOW EACH OF THE RESTRAINT MANUFACTURER'S INSTRUCTIONS CAN RESULT IN A CHILD STRIKING THE VEHICLE'S INTERIOR DURING A SUDDEN STOP OR COLLISION.

WARNING: CHILDREN HAVING A SEATING HEIGHT GREATER THAN 71CM (28 inches), WHICH IS THE MAXIMUM HEIGHT FOR USE OF THE TOT-GUARD SHOULD USE THE SAFETY BELTS PROVIDED WITH THE VEHICLE. HOWEVER, THE SHOULDER BELT PORTION OF THE LAP SHOULDER SAFETY BELT SHOULD NOT BE USED IF IT CONTACTS THE CHILD'S FACE, CHIN, NECK OR THROAT. IF THE SHOULDER BELT CONTACTS OR REMAINS IN FRONT OF THE CHILD'S FACE, CHIN, NECK OR THROAT, PLACE THE SHOULDER PORTION BEHIND THE CHILD'S BACK. FAILURE TO FOLLOW THIS PRECAUTION CAN INCREASE THE RISK OR SEVERITY OF INJURY IN THE EVENT OF A COLLISION.

INSTALLATION

Tether Attachment

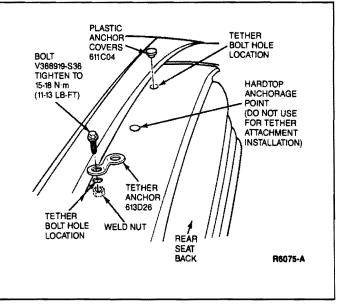
Locate and remove both plastic anchor covers.

CAUTION: Be careful not to damage threaded weld-nut.

NOTE: The center mounting hole is used to secure the removable hardtop. DO NOT use this mounting hole for the tether attachment installation.

Install hardware provided with the kit using the restraint manufacturer's instructions.

WARNING: IT IS IMPORTANT THAT THE ATTACHMENTS BE SECURELY TIGHTENED TO THE RESTRAINT MANUFACTURER'S SPECIFICATIONS. OTHERWISE, THE CHILD SAFETY SEAT MAY NOT BE PROPERLY SECURED AND THE CHILD COULD BE INJURED IN CASE OF A SUDDEN STOP OR ACCIDENT.



SECTION 41-58 Restraint System—Supplemental Air Bag

SUBJECT	PAGE	SUBJECT	PAGE
DESCRIPTION		PARTS REPLACEMENT	
Backup Power Supply	41-58-4	Repair of Air Bag Equipped Vehicles	involved in
Diagnostic Monitor		Accidents	
Driver Air Bag	41-58-1	REMOVAL AND INSTALLATION	
Ignitor	41-58-3	Air Bag Clockspring	41-58-34
Sensors		Air Bag Module	
System Readiness Indicator Lamp		Backup Power Supply	41-58-34
Tone Generator	41-58-2	Diagnostic Assembly	
Wiring		Sensor, Front Center	
DIAGNOSIS AND TESTING		Sensor, Front, Left or Right	
DISPOSAL PROCEDURES		Sensor, Rear	
Air Bag Disposal	41-58-30	SERVICE PRECAUTIONS	
Deactivating the System		Deployed Air Bag	4 1-58-29
Deployed Air Bag		General Information	41-58-29
Reactivating the System		Live Air Bags	
Scrapped Vehicle		SPECIAL SERVICE TOOLS	
Undeployed Air Bag — Faulty		SPECIFICATIONS	
OPERATION		VEHICLE APPLICATION	

VEHICLE APPLICATION

Capri.

DESCRIPTION

The Supplemental Driver Air Bag Restraint System is designed to provide increased frontal accident protection for the driver IN ADDITION TO that provided by the safety belt system. FORD RECOMMENDS THE USE OF SAFETY BELTS FOR ALL VEHICLE OCCUPANTS.

The system uses a series of sensors to monitor the deceleration rates of the vehicle. If a crash occurs at a speed in excess of 22.5 km/h (14 mph) the sensors will close and the control module will deploy the air bag. The air bag is designed to fully inflate before the driver moves forward, and to deflate slowly when struck by the driver.

The Air Bag System consists of two basic subsystems:

- 1. The driver air bag.
- 2. The electrical system which includes impact sensors and an electronic monitoring unit.

Driver Air Bag

The driver air bag is mounted in the center of the steering wheel. The unit consists of:

- Inflator.
- Mounting plate and retainer ring.
- Bag assembly.
- Steering wheel trim cover.

NOTE: The driver air bag unit is not a serviceable item, and must be serviced as a complete assembly.

Inflator

The inflator is a lightweight aluminum housing which contains the materials that generate the gases required for air bag inflation.

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DESCRIPTION (Continued)

The chemicals which generate the gas are normally very stable. In order for the chemical reaction to be initiated, an ignitor is installed to the center of the inflator. The ignitor converts the electrical signal to thermal energy, causing the ignition of the inflator gas generant. This ignition reaction combusts the sodium azide/molybdenum disulphide gas generant in the inflator, producing nitrogen gas, which inflates the air bag.

WARNING: THE AIR BAG INFLATOR CONTAINS MATERIALS THAT ARE TOXIC PRIOR TO COMBUSTION. IF THE METAL CANISTER IS RUPTURED, DIRECT CONTACT WITH THE GENERANT MAY BE MADE, AND MAY BE ABSORBED THROUGH THE SKIN. IN THE EVENT OF EXPOSURE, SEEK FRESH AIR, CONTACT A DOCTOR, AND WASH THOROUGHLY. DO NOT USE NEAR HEAT, ELECTRIC SPARKS OR FLAME.

Air Bag

The air bag is constructed of neoprene coated nylon, is 710mm (28 inches) in diameter and fills a volume of about 65 liters (2.3 cubic feet) in approximately 40 milliseconds.

Mounting Plate and Retainer Ring

The mounting plate and retainer ring attach and seal the base assembly to the inflator. The mounting bracket is also used to attach the trim cover and to mount the entire unit to the wheel by means of four nuts.

Steering Wheel Trim Cover

The cover encases the air bag assembly. When the air bag is activated, a tear seam moulded into the steering wheel trim cover separates to allow inflation of the bag assembly.

Electrical System

The air bag system is powered directly from the battery. The system can function with the ignition switch in any position, including OFF and LOCK. The system can also function when the driver's seat is unoccupied. The electrical system performs three main functions:

- Detects an impact.
- Switches electrical power to the ignitor.
- Monitors the system to determine readiness.

The electrical components include:

- Electronic diagnostic monitor.
- Air bag system readiness indicator lamp.
- · Wiring harness.
- Sensors.
- Ignitor assembly.
- Backup power supply.

Diagnostic Monitor

The diagnostic monitor assembly contains a microcomputer that monitors the electrical system components and connections. The monitor performs a self-check of the microcomputer internal circuits and energizes the system readiness indicator lamp during prove out and whenever a fault occurs. System electrical faults can be detected and are translated into coded lamp displays. If certain faults occur, the system will be disarmed by a firing disarm device built into the monitor. If a system fault exists and the lamp is malfunctioning, an audible tone will be heard indicating the need for service.

System Readiness Indicator Lamp

The system readiness indicator is an instrument cluster mounted lamp that will momentarily illuminate whenever the ignition switch is turned from the OFF position to the RUN position if the air bag system is functioning properly. If the system is not functioning properly, the lamp will either fail to illuminate, stay on continuously, or illuminate in a flashing mode (if a system fault exists and the lamp is malfunctioning, a warning tone will be heard indicating the need for service). If a fault occurs after prove out, the lamp will either illuminate continuously or in a coded flashing mode.

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Tone Generator

The air bag readiness lamp is the prime means of determining the air bag system condition. However, a series of five sets of five tones will be heard if the readiness lamp is out and a fault occurs in the system. This means that the air bag system is in need of service. The tone pattern will repeat periodically until the lamp failure is serviced. Unless serviced, the system may not function properly in the event of an accident.

Wiring

The wiring harness of the system is integral with the main vehicle harness.

The steering column has a clockspring assembly to transfer electrical signals from the steering wheel to the steering column. The clockspring has plugs which connect with the column harness at one end, and with the inflator assembly at the other. Between them is a long flexible ribbon conductor which allows approximately five and a half turns of the steering wheel. During installation, it is essential that the clockspring is installed so that its center position is aligned with the center position of the steering rack.

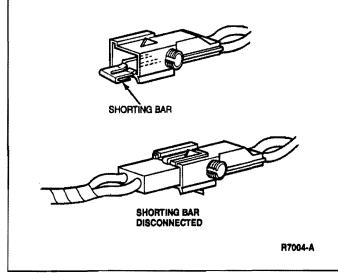
DESCRIPTION (Continued)

Ignitor

The ignitor is used to convert the electrical signal from the diagnostic module into heat energy to activate the inflator.

The ignitor requires a nominal 3.1 amps for 3 milliseconds to activate, however, it will operate on a much smaller current than this.

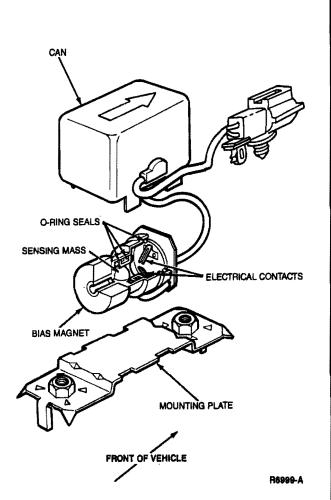
Both the ignitor lead and the clockspring lead have plugs into which shorting bars are installed. When the plug is disconnected, the shorting bar shorts the other two ignitor leads to each other to prevent accidental electrical connection and subsequent inflation of the air bag.



Sensors

The sensor assembly is a switch which reacts to impacts according to direction and force. It discriminates between impacts that require air bag inflation and those which do not. When an impact occurs that requires air bag inflation, the sensor contacts close, completing the electrical circuit necessary for system operation.

The crash sensor is constructed of a ball in a tube with contacts at one end.



The ball is held away from the contacts by a magnet at the opposite end of the tube. During an impact, if the change in vehicle's velocity is great enough, the ball will break away from the magnetic attraction and travel down the tube and close the contacts.

The travel of the ball in the tube is air damped by having a very small gap between the ball and the tube. This prevents closure of the contacts during short duration velocity changes. The major difference between a crash sensor and a safing sensor is the ball to contact distance which is reduced in the safing sensor.

There are five sensors located in the vehicle:

- At the LH tow bracket.
- At the RH tow bracket.
- A dual sensor at the radiator support.
- Under the console behind the hand brake lever (safing sensor).

At least two sensors, one safing, and one front crash sensor, must be activated to inflate the air bag.

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DESCRIPTION (Continued)

Backup Power Supply

A backup power supply is included in the system to provide air bag firing circuit power if the battery or battery cables are damaged or cut very early in an accident before the sensors can close. The battery backup contains a 3300 uf, 25 V capacitor that takes approximately 15 minutes to discharge after the battery is disconnected.

WARNING: THE BACKUP POWER SUPPLY MUST BE DISCONNECTED BEFORE ANY AIR BAG SYSTEM COMPONENT IS SERVICED.

OPERATION

When the ignition switch is turned to the RUN position a yellow AIR BAG lamp will illuminate in the instrument cluster for approximately four to eight seconds. If the lamp goes out and stays out, the air bag system is fully serviceable. If there is a fault in the system, the lamp will then flash a code corresponding to the fault present. Depending on the nature of the fault, the system may still be operational.

It is important to understand that the system is operational regardless of the ignition switch position. The air bag system obtains its power from its own circuit independent of the ignition / accessory circuits. It is only necessary to have the ignition switch set to the RUN position to obtain a system OK or the fault codes.

If a vehicle is involved in a crash, one of the front crash sensors and one of the safing sensors must close in order for the system to inflate the air bag.

When a crash sensor and a safing sensor close at the same time, battery power will flow to the air bag inflator. Inside the inflator, an igniter will then heat the gas generant and cause it to ignite. This ignition will cause the sodium azide / copper oxide gas generant to produce nitrogen gas which will inflate the air bag. The air bag will fully inflate in less than 40 milliseconds.

DIAGNOSIS AND TESTING

The diagnostic module has a coded flashing indicator lamp feature which assists the service technician in isolating a system malfunction or fault. The codes are produced by a series of air bag lamp flashes. Each flash is on for about one-half second and off for about one-half second. The number of flashes in each series is based on the type of fault being detected. The code (series of flashes) is repeated when the ignition switch is in the RUN position and a fault exists. The coded fault feature is prioritized that if two or more different faults occur at the same time, the highest priority fault indication will be shown until corrected.

NOTE: If a system fault exists and the lamp is malfunctioning, an audible tone will be heard indicating the need for service. The tone produced is a series of five sets of five beeps. The number of beeps does NOT indicate the fault code; it means the lamp is out and that a fault is present.

The faults and associated codes are listed in the Fault Code Priorities chart in the order that they are ranked from top to bottom. In other words, the fault (or code) at the top of the list has the highest priority (or ranking) and would be shown over any other code by the air bag lamp. The fault (or code) at the bottom of the list has the lowest priority (or ranking). These listings are for information only and should not be used for system diagnosis or troubleshooting. The following diagnostic charts and deactivation procedure should be used to pinpoint specific fault and to safely diagnose and service the system. However, if after using the diagnostic charts, the fault is not located, proceed to the diagnostic schematic to perform additional diagnostic checks to determine and correct uncommon faults.

"Check Connection" means inspect connector for proper seating to mating connector, inspect terminals for good contact and inspect wiring for proper crimping to terminal.

All continuity checks are done with the system deactivated as follows:

- Disconnect battery ground and battery backup power supply.
- Remove the four nut and washer assemblies securing the air bag to the steering wheel.
- Disconnect the air bag connector from the clockspring.
- Attach a jumper wire to the air bag terminals on the clockspring.

"Disconnect" does not mean removal.

A disconnected part is not reconnected until specific reconnect instruction is given.

The following test equipment is used:

- Dwell-Tach-Volt-Ohms Tester Rotunda 059-00010 or equivalent.
- Jumper Wire.

NOTE: Attach positive (+) lead to circuit voltage and negative (-) lead to specified ground. (If a Digital Voltmeter is used on any wire in the 10 amp (meter) fuse any wire in the 10 amp ("meter") fuse circuit with module disconnected, the readout will not indicate the correct voltage.

All resistance checks must be made with the negative lead to the ohmmeter at vehicle ground, not battery ground, unless specifically directed otherwise. Two places are recommended; the clutch housing or the cigar lighter housing.

Refer to the Fault Code Priorities Chart, the System Schematic, Connector Illustration and the Diagnosis Charts for Diagnosis and Testing.

VERIFY AIR BAG LAMP means to turn the ignition switch to RUN and count the flashes only after the code (series of flashes) has cycled twice. If the air bag lamp comes on continuously for four to eight seconds and then goes out, the system is functioning properly and all faults have been serviced.

CAUTION: The diagnostic system checks for open circuits, but not for shorts in all circuits. To prevent unintentional deployment of the Air Bag, perform System Prove Out procedures prior to reactivating the system.

System Prove Out Procedures

- Install jumper wire to air bag connector, turn ignition switch to Run - indicator lamp should illuminate for 4 to 8 seconds, then go out.
- Remove jumper, turn ignition switch to Run check for code 6.
- Turn ignition switch to Accessory and monitor for 5 X 5 tone (light should go out).
- Indication other than the above indicates a potential short - do not activate system - refer to fault code priority box.

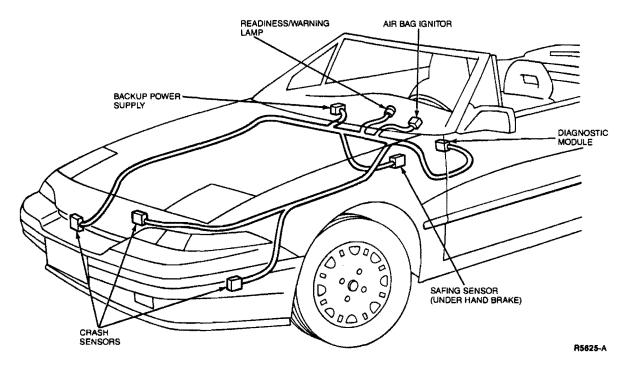
FAULT CODE PRIORITIES

Number of Flashes	Probable Fault	Go To Step
No Lamp	Inoperative air bag indicator lamp circuit	A1
Continuous Light	Diagnostic module disconnected or faulty	B 1
3	Loss of air bag deployment circuit power or backup power supply disconnected	D1
5	Igniter circuit, or forward crash sensor deployment circuit shorted to ground	F1
10	Faulty firing circuit disarm device	K1
4	Potential short in air bag deployment circuit	E1
6	Driver air bag circuit inoperative	G1
7	Open module wiring circuit	H1
8	Forward crash sensor improperly attached or grounded	11
9	Open forward crash sensor deployment circuit	J1
2	All forward crash sensors disconnected	C1
Tones 5 Sets of 5 Beeps	Air bag indicator lamp out and another fault	*

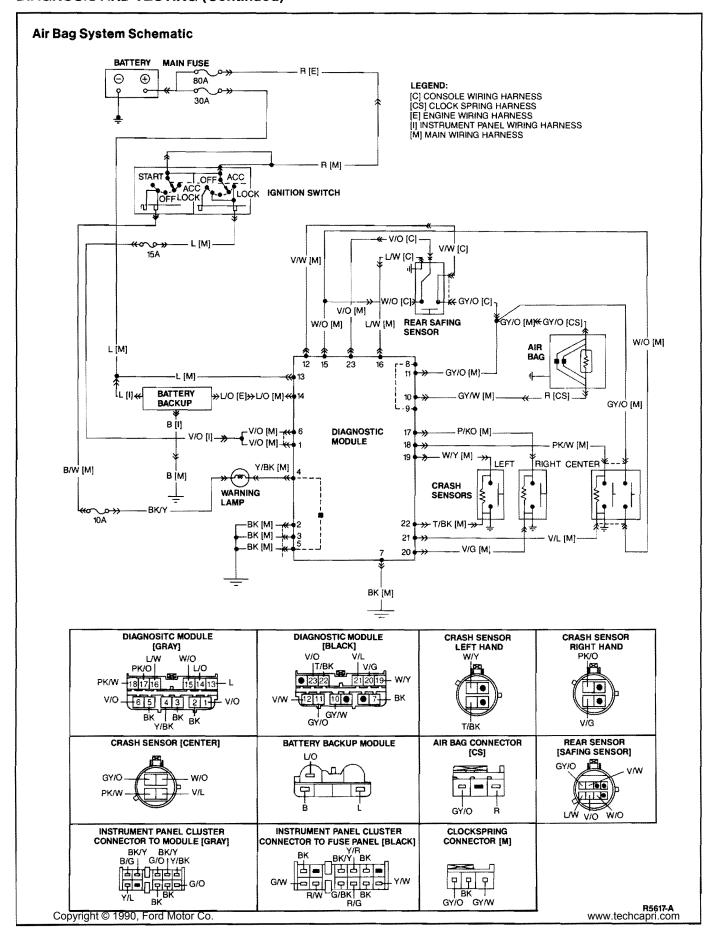
*CAUTION: If the indicator lamp and the audio warning are inoperative and the radio does not work, check the audio fuse, as the tone generator is fused with the radio.

CR5616-A

Component Location and Identification



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Fault Indication — Air Bag Lamp Does Not Light Probable Fault — Inoperative Air Bag Lamp Circuit

	TEST STEP	RESULT	► ACTION TO TAKE
A1	DURING SYSTEM PROVE-OUT AIR BAG INDICATOR LAMP DID NOT LIGHT		
A2	CHECK WARNING LAMPS		
	Turn ignition switch from OFF to RUN.	Yes	► GO to A7.
	 Warning lamps should light. 	No	▶ GO to A3 .
	 Do engine and safety belt warning lamps light? 		
A3	CHECK FUSE		
	Turn ignition switch to OFF.	Yes	GO to A4.
	Check meter fuse.	No	► GO to A5.
	• Is fuse blown?		
A4	REPLACE FUSE		
	Install new fuse into fuse panel.	No	VERIFY engine, safety belt and air bag warnin lamps.
	● Turn ignition switch to RUN.	Yes	TURN ignition switch to OFF. DEACTIVATE air bag system. TRACE BK/Y wire from clusted connector to fuse pand to find short to ground and SERVICE. REACTIVATE system and VERIFY warning lamps.
	Did fuse blow again?		
A5	RECHECK WARNING LAMPS		
	 Remove cluster connector to fuse panel, then reconnect connector. 	No	GO to A6.
	 Turn ignition switch from OFF to RUN. 	Yes	VERIFY engine, safety belt and air bag warning lamps.
	 Verify engine and safety belt warning lamps. 		
	 Do engine and safety belt warning lamps light? 		
A6	CHECK FOR OPEN AIR BAG LAMP CIRCUIT		
	Turn ignition switch to OFF.	Yes	 REPLACE bulbs and /collecter printed circuit required. REACTIVATE system and VERIFY warning lamps.
	Deactivite air bag system. Remove motor fuce.	No	TRACE BK/Y wire from cluster connector to fuse panel to find open in circuit, and REPAIR. REACTIVATE air bag system and VERIFY warning lamps.
	Remove meter fuse. Attack observators BK / V wise at fuse panel and		
	 Attach ohmmeter to BK/Y wire at fuse panel and cluster wiring connector. 		
	Is resistance less than 1 ohm? t © 1990, Ford Motor Co.		www.techcapri.com

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DIAGNOSIS AND TESTING (Continued)

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Fault Indication — Air Bag Lamp Does Not Light Probable Fault — Inoperative Air Bag Lamp Circuit (Continued)

CHECK THAT MODULE CONNECTOR IS PROPERLY CONNECTED Are the diagnostic module connectors properly connected? CHECK LAMP WITH MODULE CONNECTOR DISCONNECTED Turn ignition switch to OFF. Remove module from bracket. Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin 5 (BK wire) and Pin 4 (Y/BK wire) on the gray	Yes No No Yes Yes No	> >	Properly connect diagnostic module connectors. VERIFY a bag lamp. If air bag lan does not light GO to As
CHECK LAMP WITH MODULE CONNECTOR DISCONNECTED Turn ignition switch to OFF. Remove module from bracket. Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin	No No Yes	>	Properly connect diagnostic module connectors. VERIFY a bag lamp. If air bag landoes not light GO to At GO to A9.
Turn ignition switch to OFF. Remove module from bracket. Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin	No Yes Yes	>	diagnostic module connectors. VERIFY a bag lamp. If air bag lan does not light GO to At GO to A9.
Turn ignition switch to OFF. Remove module from bracket. Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin	Yes	•	
Remove module from bracket. Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin	Yes	•	
Disconnect diagnostic module wiring gray connector from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin	Yes	>	GO to A 10 .
from module assembly. Turn ignition switch to RUN. Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin		>	
Is the air bag lamp continuously on? CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin		>	
CHECK MODULE CONNECTOR Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin		>	
Turn ignition switch to OFF. Deactivate air bag system. Visually inspect the module connector to be sure Pin		>	
Deactivate air bag system. Visually inspect the module connector to be sure Pin		>	i e
Visually inspect the module connector to be sure Pin	No		GO to A10.
		>	GO to A11.
connector are touching each other.			
Turn ignition switch to RUN.			
Does air bag lamp flash continuously?			
CHECK AIR BAG LAMP CIRCUIT VOLTAGE			
Turn ignition switch to OFF.	Yes	•	TURN ignition switch to OFF. REPLACE diagnostic module. REACTIVATE air bag system. TURN ignition switch to RUN. VERIFY air bag warning lamp.
Deactivate air bag system.	No		TURN ignition switch to OFF. CHECK audio fus (15 amp). REPLACE fuse if blown and / or trace V / O wire from gray module wiring connector Pin 6 to fuse panel to find open and / or short to ground and REPAIR. REACTIVATE air bag system. Turn ignition to RUN. VERIFY air bag warning lamp.
Attach voltmeter to Pin 6 (V/O wire) on gray module			
wiring connector and to ground.			
Turn ignition switch to RUN.			
,	Attach voltmeter to Pin 6 (V/O wire) on gray module wiring connector and to ground.	Attach voltmeter to Pin 6 (V/O wire) on gray module wiring connector and to ground. Turn ignition switch to RUN.	Attach voltmeter to Pin 6 (V/O wire) on gray module wiring connector and to ground. Turn ignition switch to RUN.

Fault Indication — Air Bag Lamp Does Not Light Probable Fault — Inoperative Air Bag Lamp Circuit (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
A11	CHECK AIR BAG CIRCUIT GROUND			
	Reconnect diagnostic module assembly connectors.	Yes	•	TURN ignition to OFF. REMOVE jumper wire. SERVICE ground circuit REACTIVATE air bag system. TURN ignition key to RUN. VERIFY air bag warning lamp.
	 Attach a jumper wire to Pin 5 (BK wire) through back of module wiring connector and to ground. 	No	>	GO to A12.
	Does air bag lamp light?			
A12	INSPECT CLUSTER PRINTED CIRCUIT			
	● Turn ignition switch to OFF.	Yes	•	REPLACE printed circuit, connector and / or bulb as required ACTIVATE air bag system. TURN ignition switch to RUN. VERIFY air bag warning lamp.
	● Remove jumper wire from Pin 5 and ground.	No	•	TRACE BK/Y wires from cluster to the Y/BK wire at module connector to find open and SERVICE. REACTIVATE air bag system. TURN ignition to RUN. VERIFY air bag warning lamp.
	Disconnect cluster connector.			
	 Visually inspect cluster printed circuit and air bag lamp. 			
	 Does printed circuit or connector have any defects and / or is air bag lamp burnt out? 			

Fault Indication — Air Bag Lamp Stays On Probable Fault — Diagnostic Module Fault

	TEST STEP	RESULT	>	ACTION TO TAKE
B1	DURING SYSTEM PROVE-OUT AIR BAG LAMP STAYS ON			
B2	CHECK DIAGNOSTIC MODULE			· · · · · · · · · · · · · · · · · · ·
	 Visually inspect diagnostic module for proper connection to module wiring connectors. 	Yes	>	GO to B3.
	• Is diagnostic module properly connected?	No	>	SERVICE connector(s) VERIFY air bag lamp.

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Fault Indication — Air Bag Lamp Stays On Probable Fault — Diagnostic Module Fault (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
В3	CHECKING DIAGNOSTIC MODULE—CONTINUED			
	Deactivate air bag system.	No	>	REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp.
	Disconnect diagnostic module.	Yes	•	TRACE Y/BK wire from diagnostic module to find contact to ground and SERVICE. RECONNECT system. VERIFY air bag lamp.
	 Insert toothpick or other non-conducting object into wiring connector between Pins 4 and 5 to depress shorting bar between the two terminals. 			
	Verify air bag lamp.			
	Is air bag lamp still on?			

Fault Indication — Air Bag Lamp Flashes Two Times Probable Fault — All Forward Crash Sensors Disconnected

		TEST STEP		RESULT	ACTION TO TAKE	
C1 DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVI				/IDES A FAULT INDICATION OF 2 FLASHES		
C2	INSPECT FR	ONT SENSORS				
	 Visually inspect all three front sensor assembly connections and the monitor connectors. 			All three sensors are properly connected.	GO to C3 .	
				One or all sensors are not properly connected.	Properly connect the sensor(s) or monitor connectors. VERIFY Air Bag lamp.	
СЗ	INSPECT WI	RING CONNECTORS				
	Deactivate Air Bag system.			Yes	GO to C4 .	
	Remove m	onitor from bracket.		No	SERVICE monitor	
Disconnect diagnostic monitor.				connections. RECONNECT system		
	 Visually inspect monitor wiring connector for proper connection at Pin numbers: 17 (PK/O) 18 (PK/W) 19 (W/Y) 20 (V/G) 21 (V/L) 22 (T/BK) 				VERIFY Air Bag lamp REACTIVATE system.	
	Are all connections made?					
C4	CHECK RESISTANCE IN DIAGNOSTIC MONITOR CIRCUITS				}	
 Perform all of the following circuit tests with monitor disconnected. Attach the lead of the ohmmeter to each set of pins indicated on the diagnostic monitor wiring connector to check the resistance between them. 				Yes Resistance is NOT between 1000-1300	REPLACE diagnostic monitor. VERIFY Air Bag lamp. REACTIVATE system. TRACE appropriate circuit(s) and find	
Pi:		Corresponding Sensor	Circuit Wires	ohms on one or more of the tests.	open and SERVICE. CONNECT diagnostic monitor, VERIFY Air	
17	20	Right	PK/O V/G		Bag lamp. REACTIVATE system.	
18	3 21	Center	PK/W V/L			
19	22	Left	W/Y T/BK			
	Is resistan sensor?	ce between 1000-1300 oh	ms for each			

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Fault Indication — Air Bag Lamp Flashes Three Times Probable Fault — Loss of Air Bag Circuit Deployment Power or Backup Power Supply Disconnected

	TEST STEP	RESULT	>	ACTION TO TAKE
D1	DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVIDES A FAULT INDICATION OF 3 FLASHES			
D2	VISUAL INSPECTION OF FUSE IN L WIRE CIRCUIT			
	Visually inspect 30 amp fuse in L wire circuit for damage.	Yes	>	DISCONNECT battery ground cable and backup power supply. TRACE L wire to find short to ground and SERVICE. REPLACE 30 amp fuse. RECONNECT backup power supply and battery ground cable. VERIFY air bag lamp.
	• Is the fuse open (blown)?	No	>	GO to D3.
D3	VISUAL INSPECTION OF FUSES IN V/O WIRE CIRCUIT			
	 Visually inspect 15 amp audio fuse in V/O wire circuit for damage. 	Yes		DISCONNECT battery negative cable and backup power supply. TRACE V/O wire to find short to ground and SERVICE. REPLACE 15 amp audio fuse. RECONNECT backup power supply and battery negative cable. VERIFY air bag lamp.
	• is the fuse open (blown)?	No	>	GO to D4 .
D4	CHECK POWER SUPPLY VOLTAGE			
	Deactivate air bag system.	No		DISCONNECT battery negative cable and backup power supply. TRACE V/O wire from diagnostic module gray connector to find open circuit and SERVICE. RECONNECT backup power supply and battery negative cable. VERIFY air bag lamp. REACTIVATE system.
	Remove module from bracket.	Yes	>	GO to D5 .
	Disconnect diagnostic module.			
	 Attach a voltmeter to Pin 13 (L wire) on diagnostic module gray wiring connector and to ground. 			
	• Is voltage greater than 10 volts?			

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Fault Indication—Air Bag Lamp Flashes Three Times Probable Fault—Loss of Alr Bag Circuit Deployment Power or Backup Power Supply Disconnected (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
D5	CHECK BACKUP POWER SUPPLY Attach voltmeter to Pin 14, L / O wire on diagnostic	No	•	CHECK for backup
	wiring gray connector at module and to ground.			power supply connections. SERVICE as required. If OK, CHECK L/O and V/O wires. REPAIR as required. RECONNECT and REACTIVATE system. VERIFY air bag lamp.
	Is voltage greater than 10 volts?	Yes	>	GO to D6.
D6	CHECK RESISTANCE IN W / O WIRE CIRCUIT			
	 Using an ohmmeter find resistance in Pin 15 (W/O wire) on diagnostic module gray wiring connector and to ground. 	No	•	REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.
	• Is resistance less than 1 ohm?	Yes	>	GO to D7.
Đ7	CHECK RESISTANCE IN W / O WIRE CIRCUIT—CONTINUED			-
	Disconnect rear safing sensor.	No	>	GO to D9.
	 Attach ohmmeter to Pin 15 (W/O wire) on diagnostic module wiring connector and to ground. 	Yes	•	GO to D8 .
	• Is resistance less than 1 ohm?			
D8	CHECK RESISTANCE IN W / O WIRE CIRCUIT — CONTINUED			
	Disconnect center front sensor.	No		REPLACE center front sensor. REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.
	 Attach ohmmeter to Pin 15 (W/O wire) on diagnostic module wiring connector and to ground. 	Yes	•	TRACE W/O wire to find contact to ground and SERVICE. REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.
	Is resistance less than 1 ohm?			

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Fault Indication — Air Bag Lamp Flashes Three Times Probable Fault — Loss of Air Bag Circuit Deployment Power or Backup Power Supply Disconnected (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
D9	CHECK RESISTANCE V / O WIRE CIRCUIT			
	 Attach ohmmeter to V/O wire circuit on rear safing sensor wiring connector and to ground. 	No	•	REPLACE safing sensor. REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.
	● Is resistance less than 1 ohm?	Yes	•	TRACE V/O wire from rear safing sensor to find contact to ground and SERVICE. REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.

Fault Indication — Air Bag Flashes Four Times Probable Fault — Potential Short in Air Bag Deployment Circuit

	TEST STEP	RESULT	>	ACTION TO TAKE
E1	DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVIDES A FAULT INDICATION OF 4 FLASHES			
E2	CHECK REAR SAFING SENSOR GROUND			
	Deactivate system.	Yes	>	GO to E5 .
	 Place jumper wire on the rear safing sensor L/W wire and to ground. 	No	>	GO to E3.
	 Verify lamp. Does air bag lamp flash code 4? 			
E3	CONTINUE REAR SAFING SENSOR CHECK			
	 Remove jumper wire from rear safing sensor L/W wire. 	Yes	>	GO to E4.
	 Loosen and tighten rear safing sensor attaching screws. 	No	>	VERIFY air bag lamp.
	 Turn ignition switch to RUN. 			
	 Does air bag lamp flash code 4? 			
E4	CHECK SAFING SENSOR GROUND CIRCUIT			
	Turn ignition switch to OFF.	Yes		INSPECT connector terminals and wires and SERVICE as required. REACTIVATE system. VERIFY air bag lamp.
	Disconnect rear safing sensor wiring connector.	No	>	REPLACE rear safing sensor. REACTIVATE system. VERIFY air bag lamp.
	 Attach ohmmeter to L/W wire in sensor connector and to ground. 			
	Is resistance less than 1 ohm?			

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Fault Indication — Air Bag Flashes Four Times Probable Fault — Potential Short in Air Bag Deployment Circuit (Continued)

Deployment Circuit (Continued)					
	TEST STEP	RESULT		ACTION TO TAKE	
E5	CHECK W / O WIRE CIRCUIT IN CENTER FRONT SENSOR				
	 Remove jumper wire from rear sating sensor L/W wire. 	Yes		GO to E6.	
	Disconnect center front sensor.	No	>	REPLACE center front sensor. RECONNECT system. VERIFY lamp. REACTIVATE system. VERIFY lamp.	
	 Verify lamp. Does lamp flash code 4? 				
E6	CONTINUE W / O WIRE CIRCUIT CHECK				
	 Check resistance between Pin 15 (W/O wire in the gray connector) and Pin 23 (V/O wire in the black connector) at the back of the diagnostic module connectors. 	Yes	•	GO to E8 .	
	• Is resistance less than 1 ohm?	No	>	GO to E7.	
E7	CHECK REAR SAFING SENSOR RESISTANCE				
	Disconnect rear safing sensor.	Yes	•	TRACE wires W/O and V/O back to diagnost module for open circuit and SERVICE (check connectors and terminals to confirm proper connections). In o open circuit exists, REPLACE diagnostic module. RECONNECT system. REACTIVATE system. VERIFY air balamp.	
	● Check resistance between W/O and V/O wires.	No	>	REPLACE rear safing sensor. RECONNECT system. REACTIVATE system. VERIFY air balamp.	
	Is resistance less than 1 ohm?				

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DIAGNOSIS AND TESTING (Continued)

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Fault Indication — Air Bag Flashes Four Times Probable Fault — Potential Short in Air Bag Deployment Circuit (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
E8	CHECK FOR REAR SAFING SENSOR SHORT OR FORWARD CRASH SENSOR INPUT SHORT			
	 Check voltage at back of diagnostic module gray connector Pin 17 (PK/O wire) and to ground. 	Yes	>	GO to E9.
	● Is voltage less than 1 volt?	No	•	A short to B+ (Battery Positive) exists in the forward crash sensor input wires GY/O, PK/O, PK/W or W/Y wires. DISCONNECT diagnostic module and CHECK for voltage on these circuits. If no short to B+ exists, REPLACE diagnostic module. RECONNECT system. REACTIVATE system. VERIFY air balamp.
E9	CHECK V/W WIRE CIRCUIT VOLTAGE	Vac	>	00 to E44
	 Disconnect rear safing sensor. With voltmeter, probe wiring connector V / W wire to 	Yes		GO to E11. GO to E10.
	ground.	110		
	Is V / W wire at battery voltage?			
10	CHECK V/W WIRE CIRCUIT FOR OPEN			
	 With voltmeter, check voltage at back of diagnostic module black connector, Pin 12 (V / W wire). 	Yes		SERVICE open in V/W wire between diagnostic module and rear sensor. RECONNECT system. REACTIVATE system. VERIFY lamp.
	● Is V/W wire at battery voltage?	No	>	REPLACE diagnostic module.
<u> </u>	CHECK SHORT TO BATTERY POSITIVE (B+)			
	Remove diagnostic module from bracket.	Yes	•	Short to B+ exists in V/W wire between diagnostic module and rear safing sensor. TRACE circuit and SERVICE. If no short exists, REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp. REACTIVATE system. VERIFY air bag lamp.
	 With voltmeter, check rear safing sensor wiring connector between V/W wire and ground. 	No	>	RECONNECT diagnostic module. GO to E12.

Fault Indication — Air Bag Flashes Four Times Probable Fault — Potential Short in Air Bag Deployment Circuit (Continued)

	TEST STEP	RESULT		ACTION TO TAKE
E12	CHECK REAR SAFING SENSOR With diagnostic module reconnected check rear safing sensor resistance between V/W and GY/O	Yes	•	GO to E13 .
	wires. Is resistance less than 1 ohm?	No	•	REPLACE rear safing sensor. RECONNECT system. REACTIVATE system. VERIFY air bag lamp.
E13	REAR SAFING SENSOR CHECKS—CONTINUED			
	Check rear safing sensor resistance between V/W wire and W/O, V/O and L/W wires.	Yes	•	An open exists in GY/O wire between the rear safing sensor and the diagnostic module, Pin 11. FIND open and SERVICE. If no open exists, REPLACE diagnostic module. RECONNECT system. REACTIVATE system. VERIFY air bag lamp.
	Are all paths open circuits (off scale)?	No	•	REPLACE rear safing sensor. RECONNECT system. REACTIVATE system. VERIFY air bag lamp.

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Fault Indication — Air Bag Lamp Flashes Five Times Probable Fault — Forward Crash Sensor Or Igniter Circuit Shorted To Ground

		TEST STEP		RESULT		ACTION TO TAKE
F1	DURING SYS	TEM PROVE-OUT A	R BAG LAMP PROV	IDES A FAULT INDICATION	ON OF	5 FLASHES
F2	CHECK AIR E	AG				
	• Turn ignitio	n OFF.		Yes		GO to F3.
	 Deactivate 	system.		No		Disconnect battery
	 Verify lamp 	. Does Air Bag lamp	flash 5 times?			ground and backup power supply. REPLACE driver air bag. RECONNECT and REACTIVATE system. VERIFY Air Bag lamp. If code 10 is present, REPLACE diagnostic monitor.
F3	VERIFY LAMI DISCONNECT	P WITH ALL THREE FED	FRONT SENSORS			
	 Deactivate system. Disconnect all front sensors (Left, Right and Center). 			Air Bag lamp flashes fault code 5	•	GO to F4.
				Air Bag lamp flashes fault code 10	•	GO to F5 .
	● Verify Air B	ag lamp.		Air Bag lamp does no flash either fault 5 or		REPLACE diagnostic monitor. RECONNECT system VERIFY Air Bag lamp REACTIVATE system.
F4	CHECK RESI	STANCE OF THE FR	ONT SENSORS			
	 Check for intermittent short in Pins 17 (PK/O), 18 (PK/W) and 19 (W/Y). Perform all three of the following tests. 			Yes	•	REPLACE diagnostic monitor. RECONNECT system VERIFY Air Bag lamp REACTIVATE system.
		nmeter to ground and ont sensor connector.	to appropriate pin	Resistance is NOT between 1000-1300	•	REPLACE sensor(s). VERIFY Air Bag lamp
	Sensor	Pin	Wire Color	ohms for one or all sensors		If lamp flashes fault code 10, INSTALL a
	Right	17	PK/O			new diagnostic monitor. REACTIVATE
	Center	18	PK/W			system. VERIFY Air
	● Is resistance between 1000-1300 ohms for each		-		Bag lamp.	

Fault Indication — Air Bag Lamp Flashes Five Times Probable Fault — Shorted Forward Crash Sensor Deployment Circuit

	TES"	T STEP	RESULT	ACTION TO TAKE
F5	1	N THE FORWARD CRASH		
	 Remove monitor from Disconnect diagnostic Perform all three of th Attach ohmmeter to go on the diagnostic mon 	e monitor. ne following tests. Iround and to appropriate pin	Yes	TRACE appropriate circuit(s) to find contact to ground and SERVICE. RECONNECT system. VERIFY Air Bag lamp. If lamp flashes fault code 10, INSTALL a new diagnostic monitor. REACTIVATE
	Pin No.	Wire Color	-	system. VERIFY Air
	17 18 19	PK/O PK/W W/Y	Resistance is 1 ohm or greater	Bag lamp. GO to F6.
	Is resistance less that	n 1 ohm for any test?		
F6	CHECK GY/W WIRE BE CONNECTOR AND DRI	TWEEN MONITOR BLACK VER AIR BAG		
	 Remove jumper in wiring connector to driver air bag. Leave open. Fault code should change to Code 4 or Code 6. 		Code 6 Code 4	GO to F7 . GO to F8 .

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Fault Indication — Air Bag Lamp Flashes Five Times Probable Fault — Forward Crash Sensor Or Igniter Circuit Shorted To Ground

TEST STEP	RESULT		ACTION TO TAKE
CHECK CLOCKSPRING			
 Short to ground in GY/W wire between driver air bag and diagnostic monitor black connector. Disconnect clockspring connector from main harness at base of column. Place jumper wire between GY/O and GY/W wires of main harness. 	Yes	>	TRACE and SERVICE GY/W wire short to ground between clockspring and diagnostic monitor black connector. If code 10 is present, or no short exists, REPLACE diagnostic
Verify lamp. Does lamp flash code 6?.	No lamp goes out	•	monitor. REPLACE clockspring. RECONNECT system. If code 10 is present, REPLACE monitor. VERIFY Air Bag lamp.
CHECK FOR IGNITER CIRCUIT SHORTED TO GROUND			
 Disconnect rear safing sensor. With an ohmmeter, check GY/O wire to ground. Is resistance less than 1 ohm? 	Yes		A short to ground exists in GY/O wire between safing sensors, air bag, and Pin 11 of diagnostic monitor. TRACE short to ground. REPAIR as required. RECONNECT and REACTIVATE system. VERIFY lamp. If no short is found, or code 10 is present, replace diagnostic module.
	No		GO to F9.
	 CHECK CLOCKSPRING Short to ground in GY/W wire between driver air bag and diagnostic monitor black connector. Disconnect clockspring connector from main harness at base of column. Place jumper wire between GY/O and GY/W wires of main harness. Verify lamp. Does lamp flash code 6?. CHECK FOR IGNITER CIRCUIT SHORTED TO GROUND Disconnect rear safing sensor. With an ohmmeter, check GY/O wire to ground. 	CHECK CLOCKSPRING Short to ground in GY/W wire between driver air bag and diagnostic monitor black connector. Disconnect clockspring connector from main harness at base of column. Place jumper wire between GY/O and GY/W wires of main harness. Verify lamp. Does lamp flash code 6?. No lamp goes out CHECK FOR IGNITER CIRCUIT SHORTED TO GROUND Disconnect rear safing sensor. With an ohmmeter, check GY/O wire to ground. Is resistance less than 1 ohm?	CHECK CLOCKSPRING Short to ground in GY/W wire between driver air bag and diagnostic monitor black connector. Disconnect clockspring connector from main harness at base of column. Place jumper wire between GY/O and GY/W wires of main harness. Verify lamp. Does lamp flash code 6?. No lamp goes out CHECK FOR IGNITER CIRCUIT SHORTED TO GROUND Disconnect rear safing sensor. With an ohmmeter, check GY/O wire to ground. Is resistance less than 1 ohm?

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DIAGNOSIS AND TESTING (Continued)

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Fault Indication — Air Bag Lamp Flashes Five Times Probable Fault — Forward Crash Sensor Or Igniter Circuit Shorted To Ground

	TEST STEP	RESULT		ACTION TO TAKE
F9	CHECK FOR IGNITER CIRCUIT SHORTED TO GROUND — CONTINUED			
	 With an ohmmeter, check V/W wire at Pin 12 and ground. Is resistance less than 1 ohm? 	Yes	•	TRACE short to ground in V/W wire. REPAIR as required. RECONNECT and REACTIVATE system. VERIFY lamp. If code 10 exists, REPLACE monitor.
		No	•	GO to F10.
F10	CHECK REAR SAFING SENSOR			
	 With an ohmmeter, check V/W wire in sensor connector and ground (with sensor attached to vehicle). Is resistance less than 1 ohm? 	Yes	•	REPLACE rear safing sensor. If code 10 exists, REPLACE diagnostic monitor. RECONNECT and REACTIVATE system. VERIFY Air Bag lamp.
		No		REPLACE diagnostic monitor. RECONNECT and REACTIVATE system. VERIFY Air Bag lamp.
				CR7127

Fault Indication — Air Bag Lamp Flashes Six Times Probable Fault — Driver Air Bag Circuit Inoperative

	TEST STEP	RESULT	>	ACTION TO TAKE
G1	DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVIDES A FAULT CODE OF 6 FLASHES			
G2	CHECK CLOCKSPRING			
	Deactivate air bag system.	Yes	>	GO to G3 .
	 Verify air bag lamp while slowly rotating the steering wheel assembly. 	No		DISCONNECT battery negative cable and backup power supply. REMOVE jumper wire. INSTALL a new driver a bag. RECONNECT system. VERIFY air bag lamp.
	 Does the air bag lamp still flash fault code 6 and / or flash intermittently? 			
G3	CHECK CLOCKSPRING—CONTINUED			
	 Disconnect clockspring wiring connector at base of steering column. 	Yes	•	GO to G4.
	 Place a jumper wire across the GY/O and GY/W wires of the clockspring main harness wire connector. 	No	•	DISCONNECT battery negative cable and backup power supply. REMOVE jumper wire from air bag clocksprin wiring connector. INSTALL new clockspring. RECONNECT system. VERIFY air bag lamp. REACTIVATE system.
	 Verify air bag lamp. 			
	 Does the air bag lamp still flash fault code 6? 			

Fault Indication — Air Bag Lamp Flashes Six Times Probable Fault — Driver Air Bag Circuit Inoperative (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
G4	CHECK AIR BAG DIAGNOSTIC MODULE CONNECTORS			
	 Remove jumper wire from clockspring main harness wiring connector. 	Yes	>	GO to G5.
	Remove diagnostic module from bracket.	No	•	TRACE GY/O wire from clockspring wiring connector to diagnostic module connector to locate and SERVICE open circuit. RECONNECT system. REACTIVATE air bag system. VERIFY air bag lamp.
	 Disconnect diagnostic module connectors. 			
	 Before continuing, visually inspect black connector to ensure that the GY/O wire and GY/W wire are touching. 			
	 Attach ohmmeter to the GY/O wire on the black module wiring connector and GY/O wire on the clockspring wiring connector. 			
	Is resistance less than 1 ohm?			
G5	CHECK RESISTANCE IN CIRCUITS			
	 Attach ohmmeter to GY/W wire on diagnostic module black wiring connector and to GY/W wire on the clockspring connector. 	Yes	>	INSTALL a new diagnostic module. RECONNECT system. REACTIVATE system. VERIFY air bag lamp.
	• Is resistance less than 1 ohm?	No	•	TRACE GY/W wire from clockspring connector to diagnostic module to find open and SERVICE RECONNECT system. REACTIVATE system. VERIFY air bag lamp.

Fault Indication — Air Bag Lamp Flashes Seven Times Probable Fault — Module Wiring Circuit Inoperative

	TEST STEP	RESULT	>	ACTION TO TAKE
H1	DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVIDES A FAULT INDICATION OF 7 FLASHES		:	
H2	VERIFY AIR BAG LAMP			
	Deactivate air bag system.	Yes	>	GO to H3.
	Remove diagnostic module from bracket.	No	>	REACTIVATE system. TURN ignition switch to RUN. VERIFY air bag lamp.
	 Disconnect and visually inspect diagnostic module wiring connectors. 			
	 Reconnect diagnostic module wiring connector. 			
 Copyright	© Does air bag lamp flash code 7?			www.techcapri.com

Fault Indication — Air Bag Lamp Flashes Seven Times Probable Fault — Module Wiring Circuit Inoperative (Continued)

	TEST STEP	RESULT	>	ACTION TO TAKE
нз	INSPECT DIAGNOSTIC MODULE PIN 7			
	Disconnect diagnostic module.	Yes	>	GO to H4.
	 Inspect BK wire in black wiring connector for good connection to module Pin 7. 	No	>	SERVICE terminal and / or connector. RECONNECT diagnostic module. VERIFY air bag lamp.
	 Is BK wire properly seated to Pin 7 and good contact made? 			
H4	INSPECT MODULE WIRING CIRCUIT GROUND			
	Disconnect diagnostic module.	Yes	>	REPLACE diagnostic module. RECONNECT system. VERIFY air bag lamp.
	 With ohmmeter, measure resistance from BK wire in black connector to ground. 	No	>	FIND open circuit and SERVICE. RECONNECT system. VERIFY air bag lamp.
	• Is resistance less than 1 ohm?			

Fault Indication — Air Bag Lamp Flashes Eight Times Probable Fault — Forward Crash Sensor Improperly Attached or Grounded

INSPECT FRONT SENS	E-OUT AIR BAG LAMP PRO ORS	VIDES A FAULT INDICA	ATION OF	8 FLASHES
	ORS			
Visually inspect each :				
	front sensor to ensure they grounded) to the vehicle.	Yes	>	GO to I3 .
Are all sensors proper	ly installed to vehicle?	No	>	INSTALL sensor(s) properly. VERIFY Air Bag lamp.
INSPECT EACH SENSO	R'S WIRING CONNECTORS			
		Yes	•	GO to I4 .
Are all sensors proper	ly connected?	No	>	CONNECT sensor(s) properly. VERIFY Air Bag lamp.
CHECK FOR RESISTAN	CE IN FRONT SENSORS			
Disconnect battery gro	ound cable and power supply.	Yes	•	GO to 15 .
Disconnect all front se	nsors.			
Attach an ohmmeter to	ground and to appropriate	No	•	REPLACE sensor(s). VERIFY Air Bag lamp.
Sensor	Wire Color			
Right Left Center	V/G T/BK V/L			
• Is resistance less than	1 ohm for each test?			
	 Visually check each frequency of the proper connection to very a serious proper Are all sensors proper CHECK FOR RESISTANG Disconnect battery grown bisconnect all front seen perform the following to the perform the following to wire connector on each sensor Sensor Right Left Center 	 Visually check each front sensor connector for proper connection to vehicle wiring. Are all sensors properly connected? CHECK FOR RESISTANCE IN FRONT SENSORS Disconnect battery ground cable and power supply. Disconnect all front sensors. Perform the following tests. Attach an ohmmeter to ground and to appropriate wire connector on each front sensor connector. Sensor Wire Color Right V/G Left T/BK 	 Visually check each front sensor connector for proper connection to vehicle wiring. Are all sensors properly connected? No CHECK FOR RESISTANCE IN FRONT SENSORS Disconnect battery ground cable and power supply. Disconnect all front sensors. Perform the following tests. Attach an ohmmeter to ground and to appropriate wire connector on each front sensor connector. Sensor Wire Color Right V/G Left T/BK Center V/L 	 Visually check each front sensor connector for proper connection to vehicle wiring. Are all sensors properly connected? Disconnect battery ground cable and power supply. Disconnect all front sensors. Perform the following tests. Attach an ohmmeter to ground and to appropriate wire connector on each front sensor connector. Sensor Wire Color Right V/G Left T/BK Center Visually check each front sensor connector for proper of the proper of

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Fault Indication — Air Bag Lamp Flashes Eight Times Probable Fault — Forward Crash Sensor Improperly Attached or Grounded

	TEST	STEP	RESULT		ACTION TO TAKE
; -	CHECK FOR RESISTAN SENSOR WIRE CIRCUIT	CE IN FORWARD CRASH TS			
		bracket.	Yes	•	INSPECT terminals in diagnostic monitor connector and SERVICE as required If terminals and connections are OK, INSTALL a new diagnostic monitor. RECONNECT system VERIFY Air Bag lamp
	Pin No. 20 21	Wire Color V/G V/L	No		TRACE appropriate circuit(s) to find open(s) and SERVICE. RECONNECT system
	22	T/BK	-		VERIFY Air Bag lamp
	 Is resistance less than 	i i onm for each test?			

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Fault Indication — Air Bag Lamp Flashes Nine Times Probable Fault — Open Forward Crash Sensor Deployment Circuit

	TEST	STEP	RESULT		ACTION TO TAKE
J1	DURING SYSTEM PROV	/E-OUT AIR BAG LAMP PROVI	DES A FAULT INDIC	ATION OF	9 FLASHES
J2	INSPECT EACH FRONT VEHICLE WIRING	SENSOR CONNECTOR TO			
	 Visually inspect each center for a proper co 	front sensor, left, right, and nnection to the vehicle wiring.	Yes	•	GO to J3.
	Are all sensors proper	_	No		CONNECT sensor(s) properly. VERIFY Air Bag lamp.
J3	CHECK RESISTANCE C	F EACH FRONT SENSOR	-		
	Disconnect battery great	ound cable and power supply.	Yes	•	GO to J4 .
	Disconnect all front se	ensors.	No	•	REPLACE those
	the front sensors.	round and to appropriate wire ector.			sensors that did not have a resistance between 1000-1300 ohms. RECONNECT system. VERIFY Air Bag lamp.
	Sensor	Wire Color			
	Right	PK/O	4		
	Center	PK/W			
	Left	W/Y			
J4	 Is resistance of each ohms for each test? CHECK RESISTANCE OF SENSOR DEPLOYMENT 				
	Reconnect front sense	ors.	Yes	>	REPLACE diagnostic
	Deactivate system.				RECONNECT system. VERIFY Air Bag lamp.
	 Perform all three of th 	e following tests.			REACTIVATE system.
		monitor and attach ohmmeter opriate wires on diagnostic tors.	No	•	TRACE appropriate circuits to locate opens and SERVICE. RECONNECT system.
	Connector No.	Wire Color			VERIFY Air Bag lamp. REACTIVATE system.
	17	PK/O			•
	18	PK/W			
	19	W/Y			
	 Is resistance between test? 	1000-1300 ohms for each			
				<u>l</u> _	CR5623

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Fault Indication — Air Bag Lamp Flashes Ten Times Probable Fault — Firing Circuit Disarm Device Blown Due to Deployment Circuit Shorted to Ground

	TEST STEP	RESULT	>	ACTION TO TAKE
K1	DURING SYSTEM PROVE-OUT AIR BAG LAMP PROVIDES A FAULT INDICATION OF 10 FLASHES			
K2	MONITOR AIR BAG INDICATOR LAMP			
	Lamp flashes 10 times.	Yes	•	PERFORM procedures in Steps F1 through F10.
		No	>	End of testing.
	CAUTION: A thermal fuse is built into the diagnostic module that opens the battery and power supply circuit to the air bag should a short occur in the air bag deployment circuit without a safing sensor being closed. This prevents unwarranted air bag deployment due to damaged vehicle wiring.			
	CAUTION: The Code 10 is a result of a short to ground, as described in the diagnosis for a Code 5. Code 10 is normally found after repair of a Code 5 condition. If the Code 5 is intermittent, just the Code 10 may be showing. Always look for Code 5 shorts before repairing the Code 10, (replacing the diagnostic module). Since the thermal fuse is built into the diagnostic module, the module must be replaced to repair a Code 10. Refer to Code 5 Diagnosis.			

PARTS REPLACEMENT

The various major assemblies in the air bag system have been designed to be tamper resistant and are not intended to be disassembled for service. Component assemblies should be removed and replaced as required. Information on proper handling, storage and disposal of the air bag inflator assemblies is provided in this section.

Repair of Air Bag Equipped Vehicles Involved in Accidents

While repairing an air bag equipped vehicle that has been involved in an accident, check sensors and wiring. Sensor to vehicle positioning is critical for proper system operation. If a vehicle equipped with an air bag system is involved in a crash where the mud guards or grill area have been damaged, inspect the sensor mounting brackets for damage. If damaged, the sensor should be replaced whether or not the air bag has been deployed. In addition, make sure that the body structure in the area of the sensor has been restored to its original condition.

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Inspect the sensor wiring and the wiring harness for any damage that may have occurred due to the accident. Repair or replace any damaged wiring, terminals, insulation or connectors as required. If splices are required in adjacent wiring, they should be staggered by 50mm (2 inches).

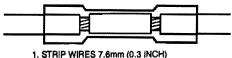
A waterproof butt splice has been released that should be used for all repairs to wiring located in the engine compartment. The "DURASEAL" heat shrinkable nylon splice provides a long lasting joint that can withstand water, salt, condensation, corrosion and heat, all of which cause problems for conventional unsealed splices.

The inner wall of the splice is lined with a special adhesive that melts as the splice is heated and flows under pressure from the tubing, filling voids and sealing the splice.

PARTS REPLACEMENT (Continued)

The "DURASEAL" splice can be easily installed using a standard crimp tool and a heat gun. They are also color coded for easy identification of sizes, yet are transparent for visual inspection of the finished splice.

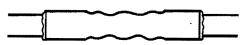
INSTALLATION INSTRUCTIONS



 STRIP WIRES 7.6mm (0.3 INCH) INSERT INTO CRIMP BARREL



2. CRIMP USING CRIMP TOOL FOR PREINSULATED CRIMPS.



3. HEAT SPLICE WITH HEAT GUN UNTIL TUBING SHRINKS AND ADHESIVE FLOWS FROM EACH END.

R7000-A

Part Number	Part Name	Class
E6FZ-14488-A	Butt Connector Gauge: 18-22, Color: Red	С
E6FZ-14488-B	Butt Connector Gauge: 14-16, Color: Blue	С
E6FZ-14488-C	Butt Connector Gauge: 10-12, Color: Yellow	С

CR7001-A

If the accident involved deployment of the air bag, the steering column may have been loaded sufficiently to deform the steering column mounting brackets or damage the column wiring. An inspection should be made of the column structure and clockspring wiring to make sure that any damaged components are replaced. Refer to Section 13-01.

After all service, verify the air bag indicator lamp. Refer to Diagnosis and Testing.

SERVICE PRECAUTIONS

WARNING: SAFE HANDLING OF THE AIR BAG REQUIRES FOLLOWING THE PROCEDURES DESCRIBED BELOW FOR BOTH LIVE AND DEPLOYED AIR BAGS. ALWAYS WEAR SAFETY GLASSES WHEN SERVICING AN AIR BAG SYSTEM, AND WHEN HANDLING AN AIR BAG.

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Live Air Bags

WHEN CARRYING A LIVE AIR BAG, MAKE SURE THE BAG AND TRIM COVER ARE POINTED AWAY FROM YOUR BODY. IN THE UNLIKELY EVENT OF AN ACCIDENTAL DEPLOYMENT, THE BAG WILL THEN DEPLOY WITH MINIMAL CHANCE OF INJURY. IN ADDITION, WHEN PLACING A LIVE AIR BAG ON A BENCH OR OTHER SURFACE, ALWAYS FACE THE BAG AND TRIM COVER UP, AWAY FROM THE SURFACE. THIS WILL REDUCE THE MOTION OF THE UNIT IF IT IS ACCIDENTALLY DEPLOYED.

Deployed Air Bag

SAFETY PRECAUTIONS MUST ALSO BE OBSERVED WHEN HANDLING A DEPLOYED AIR BAG. AFTER DEPLOYMENT, THE AIR BAG SURFACE MAY BE CONTAMINATED WITH DEPOSITS OF SODIUM HYDROXIDE, A PRODUCT OF THE GAS GENERANT COMBUSTION THAT IS IRRITATING TO THE SKIN. ALWAYS WEAR GLOVES AND SAFETY GLASSES WHEN HANDLING A DEPLOYED AIR BAG, AND WASH HANDS WITH SOAP AND WATER AFTERWARD.

General Information

BECAUSE OF THE CRITICAL OPERATION
REQUIREMENTS OF THE SYSTEM, DO NOT
ATTEMPT TO SERVICE THE SENSORS,
CLOCKSPRING, MODULE, BATTERY BACKUP OR
THE AIR BAG. CORRECTIONS ARE MADE BY
REPLACEMENT ONLY.

IF EVER A PART IS REPLACED AND THE NEW PART DID NOT CORRECT THE CONDITION, INSTALL THE ORIGINAL PART AND PERFORM THE DIAGNOSTIC PROCEDURE AGAIN.

WARNING: NEVER PROBE THE CONNECTIONS OF THE AIR BAG. DOING SO MAY RESULT IN DEPLOYMENT OF THE AIR BAG AND PERSONAL INJURY. ALL COMPONENT REPLACEMENTS AND WIRING REPAIRS MUST BE MADE WITH THE BATTERY GROUND AND THE BATTERY BACKUP DISCONNECTED.

DISPOSAL PROCEDURES

Several situations may arise when some form of disposal action must be undertaken; scrapping a vehicle containing a deployed air bag, scrapping a vehicle with a live air bag, disposal of a live but electrically inoperative air bag module, and scrapping a deployed module. These situations and the disposal recommendations are shown in the following chart and discussed in detail below.

DISPOSAL PROCEDURES (Continued)

AIR BAG DISPOSAL RECOMMENDATIONS

CONDITION	INSTRUCTIONS
Vehicle to be Scrapped; Live Air Bag.	Electrically Deploy Using Procedures 1 or 2 as Required.
2. Vehicle to be Scrapped; Deployed Air Bag.	Scrap Vehicle in the Usual Manner.
3. Module Replaced; Faulty but Live Air Bag.	Package and Label Properly. Return Per Instructions with New Air Bag.
4. Module Replaced; Deployed Air Bag.	Scrap Module in the Usual Manner.

CR7005-A

Deployed Air Bag

To service a vehicle in which the air bag has been deployed, the deployed air bag must be replaced with a new air bag assembly. The deployed air bag can be disposed of in the same manner as any other part to be scrapped.

Undeployed Air Bag—Faulty

In the event that an air bag is diagnosed as being faulty, the faulty air bag must be replaced with a new air bag assembly. The faulty air bag **CANNOT BE DISPOSED OF IN THE NORMAL MANNER**, and must be returned to Ford Motor Company for proper disposal.

Air bags must be packaged and shipped in compliance with the relevant government transport regulations. Retain the packaging used for the new air bag, including the label. Return the faulty air bag according to the instructions provided with the new air bag.

Scrapped Vehicle

Some vehicles may be damaged or inoperable to the point that service cannot be made, but still contain an undeployed air bag. This condition could occur with side or rear impacts, rollover, or if the vehicle is past its useful life. THE AIR BAG SHOULD BE DEPLOYED PRIOR TO VEHICLE SCRAPPAGE BY FOLLOWING PROCEDURE 1 OR 2 AS FOLLOWS:

Air Bag Disposal

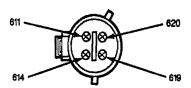
Procedure 1

Electronic Deployment with Intact Wiring

This procedure assumes that the air bag wiring is intact, and that no fault codes are indicated, and that a battery is connected to the vehicle. This procedure is to be performed outdoors away from other personnel, since the deploying air bag makes a loud report on actuation. It is advisable to wear hearing protection during this procedure.

 Check and clear the front seat of all loose objects.

- Do not permit any occupants to remain in the vehicle.
- Open the hood and check for a properly connected battery.
- 4. Turn the ignition switch to the RUN position and observe the air bag readiness indicator. If the system proves out normally, go to Step 5. If a fault code is displayed go to Procedure 2 to deploy the air bag. Turn the ignition switch to the OFF position.
- Locate the center crash sensor at the top of the radiator support. Locate the connector on the wiring from the sensor.
- Pull the connector apart and examine the wiring harness end (not the sensor end). Identify circuits 611, 614, 619 and 620.



R7002-A

- Using a 152mm (6 inch) length of bared wire, short pin 619 to ground. Then, with another piece of wire, short pin 611 to pin 614. The air bag should deploy. If the air bag does not deploy, go to Procedure 2.
- If successful, a loud report will be heard and the bag material will be visible in the center of the steering wheel. Allow at least 10 minutes before approaching the air bag to allow for cooling and dispersal of the gases.

The air bag is now inoperative and the vehicle may be disposed in the normal manner.

Procedure 2

Remote Deployment of Air Bag

This procedure is to be used in the event that a vehicle with a live air bag is to scrapped, but the vehicle wiring, or the air bag system, is faulty.

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DISPOSAL PROCEDURES (Continued)

WARNING: REMOTE DEPLOYMENT IS TO BE PERFORMED OUTDOORS WITH ALL PERSONNEL AT LEAST 7 METERS (22 FEET) AWAY TO ENSURE PERSONAL SAFETY AND DUE TO THE LOUD REPORT WHICH OCCURS WHEN THE AIR BAG IS DEPLOYED.

- 1. Remove the air bag from the vehicle as outlined.
- Remove the connector by cutting the wires to the air bag, and strip the insulation from the ends.
 Using two wires 20 feet long, connect one wire to each of the air bag wires.
- Place the air bag with the trim cover facing upward on a flat surface in a remote area such as a parking lot or field.

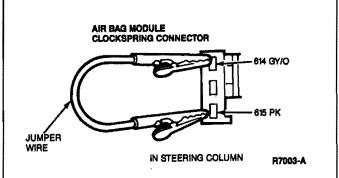
WARNING: DO NOT PLACE THE AIR BAG WITH THE TRIM FACING DOWN AS THE DEPLOYING AIR BAG MAY RICOCHET AND CAUSE PERSONAL INJURY.

- Remaining at least 7 meters (22 feet) away from the air bag, deploy it by touching the other ends of the wire to a 12 volt battery. If the air bag does not deploy, follow the procedure for FAULTY UNDEPLOYED AIR BAGS.
- If successful, a loud report will be heard and the bag material will be visible. Allow at least 10 minutes before approaching the air bag to allow for cooling and dispersal of the gases.

The air bag is now inoperative and both the vehicle and the air bag may be scrapped in the normal manner.

Deactivating the System

- Disconnect battery ground cable and battery backup power supply.
- Remove the four nut and washer assemblies securing the air bag to the steering wheel.
- Disconnect the air bag connector from the clockspring.
- Attach a jumper wire to the air bag terminals on the clockspring.



Connect battery ground cable and battery backup.

Reactivating the System

- Disconnect battery ground cable and battery backup power supply.
- Remove jumper wire from air bag terminals on clockspring, if connected.
- 3. Connect air bag to the clockspring.
- Position air bag on steering wheel and secure with four nut and washer assemblies. Tighten nuts to 2-3 N·m (17-26 lb-in).
- Connect battery ground cable and battery backup power supply.
- 6. Verify air bag indicator lamp.

REMOVAL AND INSTALLATION

WARNING: THE ELECTRICAL CIRCUIT
NECESSARY FOR SYSTEM DEPLOYMENT IS
POWERED DIRECTLY FROM THE BATTERY. TO
AVOID ACCIDENTAL DEPLOYMENT AND
POSSIBLE PERSONAL INJURY, THE BATTERY
GROUND CABLE AND THE BATTERY BACKUP
MUST BE DISCONNECTED PRIOR TO SERVICING
ANY SYSTEM COMPONENTS.

Sensor, Front Center

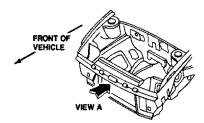
Removal

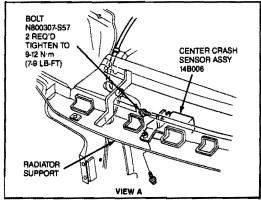
- Disconnect battery ground cable and battery backup power supply.
- 2. Remove front bumper assembly. Refer to Section 47-02.
- Disconnect center front sensor connector from wiring harness connector.

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REMOVAL AND INSTALLATION (Continued)

 Remove the two bolts retaining the sensor to the radiator support. Remove the sensor from the vehicle.





R7010-A

Installation

- Position the sensor with the arrow on top pointing toward the front of the vehicle and secure to the radiator support with two bolts. Tighten bolts to 9-12 N·m (7-9 lb-ft).
- Connect sensor lead to the wiring harness connector.
- 3. Install front bumper assembly.
- Connect battery ground cable and battery backup.
- 5. Verify air bag indicator lamp.

Sensor, Front, Left or Right

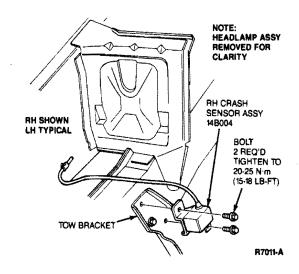
Removal

WARNING: THE ELECTRICAL CIRCUIT
NECESSARY FOR SYSTEM DEPLOYMENT IS
POWERED DIRECTLY FROM THE BATTERY. TO
AVOID ACCIDENTAL DEPLOYMENT AND
POSSIBLE PERSONAL INJURY, THE BATTERY
GROUND CABLE AND THE BATTERY BACKUP
MUST BE DISCONNECTED PRIOR TO SERVICING
OR REPLACING ANY SYSTEM COMPONENTS.

 Raise the headlamps by using the service switch. If servicing LH sensor, remove LH headlamp bezel and splash shield.

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- Disconnect battery ground cable and battery backup power supply.
- 3. Remove electrical connector retaining clip from the apron under headlamp.
- Disconnect the electrical connector.
- Remove the two bolts retaining the sensor and remove the sensor.



Installation

- Position the sensor in the vehicle, ensuring that the arrow faces to the front of the vehicle. Install sensor retaining bolts and tighten to 20-25 N·m (15-18 lb-ft).
- Connect the sensor lead to the wiring harness connector.
- Install the connector retaining clip into the hole in the apron. If servicing LH sensor, install LH headlamp splash shield and bezel.
- Connect battery ground cable and battery backup power supply.
- 5. Lower the headlamps.
- Verify air bag indicator lamp.

Sensor, Rear

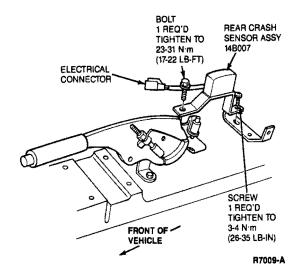
Removal

WARNING: THE ELECTRICAL CIRCUIT NECESSARY FOR SYSTEM DEPLOYMENT IS POWERED DIRECTLY FROM THE BATTERY. TO AVOID POSSIBLE PERSONAL INJURY, THE BATTERY GROUND CABLE AND THE BATTERY BACKUP MUST BE DISCONNECTED PRIOR TO SERVICING OR REPLACING ANY SYSTEM COMPONENTS.

 Disconnect battery ground cable and battery backup power supply.

REMOVAL AND INSTALLATION (Continued)

- Remove center console. Refer to Section 45-31.
- Remove sensor retaining screw and bolt.
- Disconnect sensor lead from wiring harness connector.
- 5. Remove sensor.



Installation

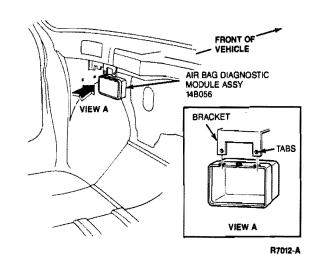
- Connect the sensor lead to the wiring harness connector.
- Position the sensor and make sure the arrow faces to the front of the vehicle.
- Install sensor retaining bolt and screw. Tighten screw to 3-4 N·m (26-35 lb-in). Tighten bolt to 23-31 N·m (17-22 lb-ft).
- Install console. Refer to Section 45-31.
- Connect battery ground cable and battery backup power supply.
- Verify air bag indicator lamp.

Diagnostic Assembly

Removal

WARNING: THE ELECTRICAL CIRCUIT
NECESSARY FOR SYSTEM DEPLOYMENT IS
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POSSIBLE PERSONAL INJURY, THE BATTERY
GROUND CABLE AND THE BATTERY BACKUP
MUST BE DISCONNECTED PRIOR TO SERVICING
OR REPLACING ANY SYSTEM COMPONENTS.

- Disconnect battery ground cable and battery backup power supply.
- Locate diagnostic module (a blue box) mounted behind the fuse panel in the instrument panel.
- Depress the two tabs retaining the module and remove module.
- Disconnect the connector and remove the module.



Installation

- 1. Connect connector to the module.
- Position the module on the bracket. Ensure tabs lock into place.
- Connect battery ground cable and battery backup power supply.
- 4. Verify air bag indicator lamp.

Air Bag Module

Removal

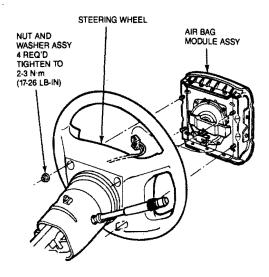
WARNING: THE ELECTRICAL CIRCUIT
NECESSARY FOR SYSTEM DEPLOYMENT IS
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AVOID ACCIDENTAL DEPLOYMENT AND
POSSIBLE PERSONAL INJURY, THE BATTERY
GROUND CABLE AND THE BATTERY BACKUP
MUST BE DISCONNECTED PRIOR TO SERVICING
ANY SYSTEM COMPONENTS.

- Disconnect battery ground cable and battery backup power supply.
- Remove the four nut and washer assemblies securing the air bag to the steering wheel.

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REMOVAL AND INSTALLATION (Continued)

Disconnect the air bag connector to the clockspring and remove air bag.



R7013-A

CAUTION: Follow air bag handling procedures.

Installation

- 1. Connect the air bag connector to the clockspring.
- Position the air bag on the steering wheel, and install four nut and washer assemblies. Tighten to 2-3 N·m (17-26 lb-in).
- Connect battery ground cable and battery backup power supply.
- Verify air bag indicator lamp.

Air Bag Clockspring

Refer to Section 13-04.

Backup Power Supply

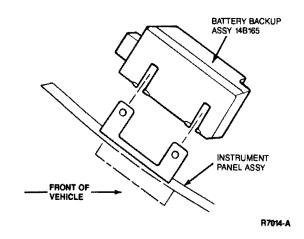
Removal

WARNING: THE ELECTRICAL CIRCUIT
NECESSARY FOR SYSTEM DEPLOYMENT IS
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POSSIBLE PERSONAL INJURY, THE BATTERY
GROUND CABLE AND THE BATTERY BACKUP
MUST BE DISCONNECTED PRIOR TO SERVICING
ANY SYSTEM COMPONENTS.

Disconnect battery ground cable.

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- Lower the glove compartment door fully by depressing the stops.
- Detach the battery backup which is a blue rectangular box on the outer LH side of the glove compartment and attached to the instrument panel.
- 4. Disconnect electrical connector.
- Remove the module by depressing the tabs and pulling the module up and away from the instrument panel.



Installation

- Connect the electrical connector.
- Attach the battery backup to the instrument panel.
- 3. Install and close the glove compartment.
- 4. Connect battery ground cable.
- 5. Verify air bag indicator lamp.

SPECIFICATIONS

MAJOR SYSTEM COMPONENT PART NUMBERS

Component	Part Number
Air Bag Module Assy	T043B13A
Sensor and Bracket Assy, Front Right	14B004 A
Sensor and Bracket Assy, Front Left	14B005 A
Sensor and Bracket Assy, Center	14B006 A
Sensor and Bracket Assy, Rear	14B007 A
Module Assy, Air Bag Diagnostic	14B056 A
Backup Power Supply	14B165 A

CR5624-A

SPECIFICATIONS (Continued)

TORQUE SPECIFICATIONS Description Nem Lb-Ft 2-3 Air Bag Module 17-26 (Lb-In) Crash Sensor, Center 9-12 7-9 Crash Sensor, RH/LH 20-25 15-18 17-22 Crash Sensor, Rear—Bolt 23-31 26-35 Crash Sensor, Rear-Screw 3-4 (Lb-In)

SPECIAL SERVICE TOOLS

59-00010 Dwell-Tech-Volt-Ohme Tester	059-00010 Dwell-Tach-Volt-Ohms Tester	leboM	Description	
Da-00010 Dwell-Tacil-Volt-Olinis Tester	500 000 /0 Displication value of mile 100101	059-00010	Dwell-Tach-Volt-Ohms Tester	

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