

Section I – Installation Preparation

Part Number: 00016-00040
Code: MC1



REVISION F

Section I – Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	MIRROR/MONITOR
2	1	REVERSE MINI-CAMERA
3	1	EXTENSION HARNESS
4	1	SACK PARTS
5	1	OWNER'S CARD
6		
7		
8		

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	25	WIRE TIES
2	6	ADHESIVE FOAM
3	3	T-TAP, 18-22AWG
4	2	T-TAP, 14-18AWG
5	1	DOUBLE-SIDED MOLDING TAPE
6	1	SEALING PUTTY
7	1	ALCOHOL PAD
8	1	RUBBER GROMMET

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	N/A	ELECTRICAL TAPE

Conflicts

Note:

Recommended Tools

Safety Tools	
Special Tools	
IR TEMP PROBE	
Rear Camera Mounting Fixture	
Trunk Holder And Vacuum T	
Installation Tools	
FASTENER REMOVAL TOOL	WIRE CUTTERS
TRIM REMOVAL TOOL	TORX-20 WRENCH
10-MM DEEP SOCKET	PLIERS
Torque Wrench (36 in. lb.)	
1/4" Drill Bit	
1 1/16" Hole Saw	
Special Chemicals	
Soapy Water or Alcohol/water	

Color Applicability/Trim Level

Accessories Color																				
	Vehicle/Trim Color																			

General Applicability

All Models

Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

OPERATOR SAFETY: Use caution to avoid risk of injury

CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation

GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation

TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SPECIAL NOTE: Installation Sequences

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality. Also some items listed to be removed may not need to be removed if caution is taken to not damage vehicle.

PARTS IDENTIFICATION

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	00016-00040-01	REARSIGHT MONITOR/MIRROR
2	1	00016-00040-04	CAMERA EXTENSION HARNESS
3	1	00016-00040-02	REAR CAMERA ASSEMBLY
4	1	00016-00040-03	SACK PARTS: TIE STRAPS, T-TAPS, SEALING PUTTY



***BEFORE** BEGINNING INSTALLATION, FAMILIARIZE YOURSELF WITH THE INSTALLATION INSTRUCTIONS AND THE **REARSIGHT™** BACK-UP CAMERA SYSTEM COMPONENTS.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

VEHICLE PREPARATION



DIS-CONNECT THE NEGATIVE BATTERY CABLE BEFORE BEGINNING INSTALLATION.

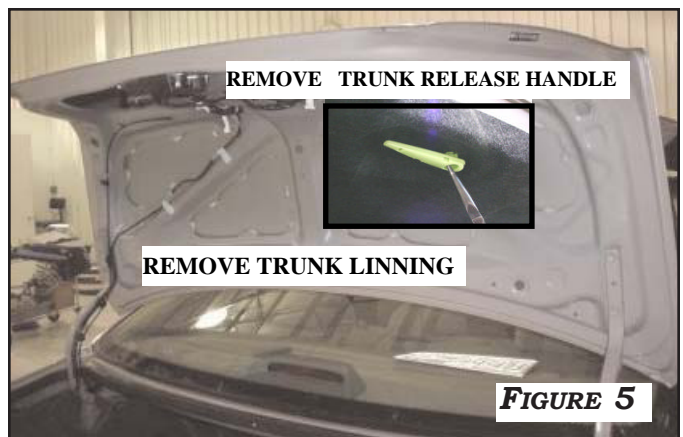
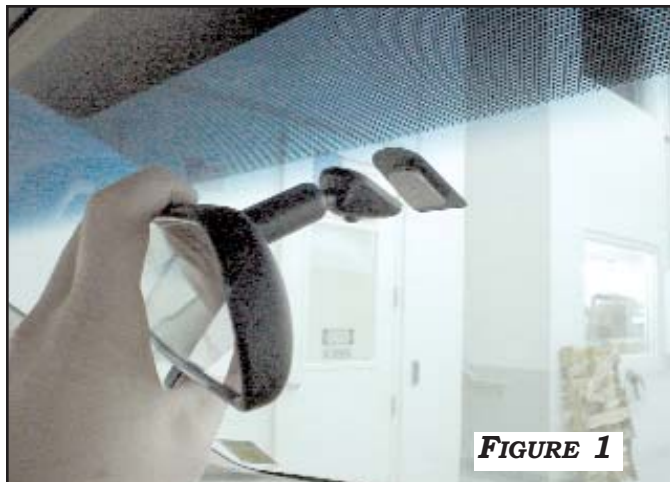


PLACE PROTECTIVE COVERS ON VEHICLE

VEHICLE PREPARATION



1. LOOSEN **Torx-20** WINDSHIELD LUG MOUNT SCREW AND REMOVE EXISTING REARVIEW MIRROR. **FIGURE 1**
2. REMOVE OVERHEAD CONSOLE BY PULLING DOWN THE MAP LIGHT CONSOLE IN THE AREA AS SHOWN (**FIGURE 2**), RELEASING (**2**) CLIPS AND DISCONNECTING THE HARNESS CONNECTORS REMOVE THE PASSENGER SUNVISOR RETAINING CLIP.
3. REMOVE OR LOOSEN PASSENGER SIDE TRIM PANELS INCLUDING: A-PILLAR TRIM, UNDER DASH PANEL KICK PANEL AND DOOR SILL TRIM; B-PILLAR KICK PANEL AND REAR DOOR SILL TRIM. REMOVE PASSENGER SIDE BOLSTER CUSHION, TRUNK RELEASE HANDLE AND TRUNK LID LINING. **FIGURES 3-5**
4. REMOVE THE CHROME TRIM PIECE ABOVE THE LICENSE PLATE BY REMOVING FOUR (4) 10MM NUTS AND ONE (1) PLASTIC CLIP. **FIGURE 6**



INSTALLATION

INSTALLING MONITOR/MIRROR



1. MOUNT REAR SIGHT MIRROR ON EXISTING WINDSHIELD LUG AND TIGHTEN SCREW. **FIGURE 7**

2. ROUTE MIRROR HARNESS UP WINDSHIELD AND BEHIND THE HEADLINER TO CONSOLE OPENING. ROUTE THE END OF THE CAMERA EXTENSION HARNESS MARKED "TO MIRROR" WITH THE MALE CONNECTORS UP THE CENTER OF THE WINDSHIELD AND BEHIND HEADLINER TO THE CONSOLE OPENING. **FIGURE 8**

3. CONNECT **MALE RCA** VIDEO CONNECTOR OF CAMERA EXTENSION HARNESS TO **VIDEO 1** INPUT (BLACK CABLE) OF MIRROR HARNESS. CONNECT **MALE DC** POWER CONNECTOR OF CAMERA EXTENSION HARNESS TO CAMERA **POWER 1** OUTPUT (GREEN CABLE) OF REAR SIGHT MIRROR HARNESS. WRAP ALL **RCA** AND **DC** CONNECTORS WITH THE FOAM TAPE PROVIDED. **FIGURE 9**



ROUTING HARNESSES AND POWER CONNECTION

1. ROUTE **CAMERA EXTENSION HARNESS** AND **MIRROR POWER HARNESS** (RED, BLACK AND WHITE WIRES) ABOVE HEADLINER TO PASSENGER-SIDE A-PILLAR. ROUTE HARNESSES DOWN THE A-PILLAR USING THE FACTORY RETAINING CLIPS OR FOAM TAPE WHENEVER POSSIBLE. IF THE VEHICLE HAS SIDE CURTAIN AIRBAGS, BE SURE TO SECURE THE HARNESS SO THAT IT DOES NOT INTERFERE WITH AIRBAG DEPLOYMENT. ROUTE THE HARNESSES FROM THE A-PILLAR TO THE KICKPANEL. **FIGURE 10**

2. LOCATE CONNECTORS **IM1** AND **IM2** AT THE PASSENGER SIDE KICKPANEL. USE THE SUPPLIED BLUE T-TAP CONNECTOR TO CONNECT THE **RED IGNITION WIRE** OF THE **MIRROR POWER HARNESS** TO THE **VIOLET WIRE** IN **PIN 1** OF GRAY CONNECTOR **IM2**. USE A RED T-TAP TO CONNECT THE **BLACK GROUND WIRE** OF THE MIRROR POWER HARNESS TO THE **WHITE/BLACK WIRE** IN **PIN 17** OF WHITE CONNECTOR **IM1**. LOCATE GRAY CONNECTOR **IL1** BELOW THE GLOVE BOX AREA. USE THE SUPPLIED RED T-TAP CONNECTOR TO CONNECT THE **WHITE REVERSE WIRE** OF THE **MIRROR POWER HARNESS** TO THE **RED/BLACK WIRE** IN **PIN 2** OF CONNECTOR **IL1**. SECURE ALL HARNESSES WITH WIRE TIES. **FIGURES 11-12**

3. ROUTE THE CAMERA EXTENSION HARNESS FROM THE KICKPANEL UNDER THE DOOR SILL TRIM, BEHIND B-PILLAR TRIM, UNDER THE REAR DOOR SILL TRIM AND BENEATH/BEHIND THE PASSENGER REAR SEAT BOLSTER TO THE TRUNK. USE THE FACTORY WIRE CHANNELS AND RETAINING CLIPS. ROUTE THE HARNESS BELOW THE REAR DECK AND UP THE LEFT TRUNK HINGE TO THE TRUNK LID AND THE AREA BEHIND THE LICENSE PLATE. FOLLOW THE FACTORY HARNESSES WHERE POSSIBLE. SECURE THE HARNESS WITH WIRE TIES OR FOAM TAPE. BUNDLE AND SECURE WIRE ALONG FACTORY HARNESS INSIDE DECK LID AREA. **FIGURE 13**

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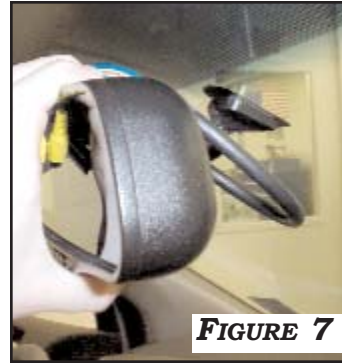


FIGURE 7

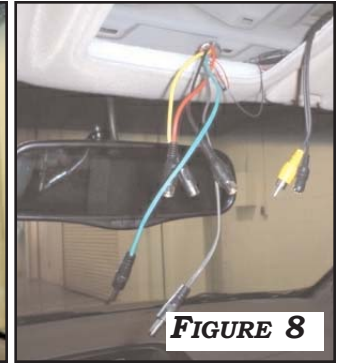


FIGURE 8

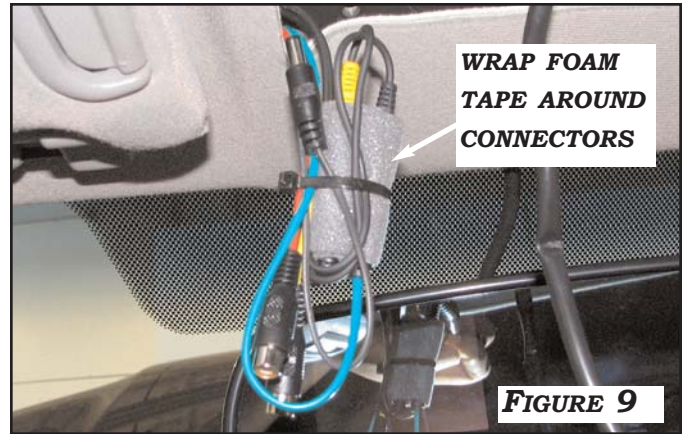


FIGURE 9



FIGURE 10

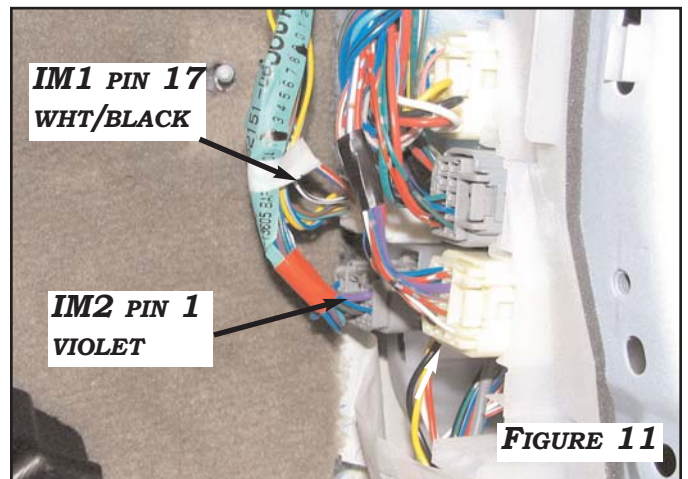


FIGURE 11

INSTALLATION

MOUNTING CAMERA AND PCB



Installation Temperature
Surface temperature must be between 70⁰ F and 110⁰ F for optimum installation.



1. CLEAN THE RIGHT SIDE OF THE BOTTOM OF THE LICENSE PLATE TRIM PIECE WITH ALCOHOL. REMOVE THE RIGHT SIDE WHITE CLIP FROM THE BACK OF THE TRIM PIECE. ATTACH THE REARSIGHT CAMRY REAR CAMERA MOUNTING FIXTURE TO THE TRIM PIECE USING THE RIGHT LICENSE PLATE LIGHT CAVITY AS A GUIDE AS SHOWN IN **FIGURES 14-15**. PEEL THE CLEAR LINER OFF OF THE DOUBLE-SIDED TAPE ON THE CAMERA ASSEMBLY AND MOUNT THE ASSEMBLY TO THE TRIM PIECE USING THE FIXTURE FOR ALIGNMENT. BE SURE TO PUSH THE CAMERA ASSEMBLY FIRMLY INTO THE GAP IN THE FIXTURE, AND PRESS DOWN FIRMLY ON THE TRIM PIECE FOR FIVE SECONDS BEFORE RELEASING. REMOVE THE MOUNTING FIXTURE FROM THE TRIM PIECE AND SET BOTH ASIDE.

2. REMOVE RIGHT LICENSE PLATE LIGHT ASSEMBLY.

3. USE THE CAMRY TRUNK LID DRILLING FIXTURE TO LOCATE AND DRILL A 1/4" PILOT HOLE AS SHOWN IN **FIGURES 16-17** THEN USE A 1-1/16" HOLE SAW TO CUT A LARGER HOLE VIA THE PILOT HOLE AS SHOWN IN **FIGURE 18**. DEBURR THE HOLE. CHECK FOR METAL SHAVINGS & VACUUM OUT THE TRUNK AREA. COAT THE EDGE WITH APPROVED SILICONE SEALANT.

NOTE: CONFIRM PROTECTIVE COVER IN PLACE BEFORE DRILLING. ALSO USE TRUNK HOLDER AND VACUUM T WHEN DRILLING.

4. RE-ATTACH RIGHT LICENSE PLATE ASSEMBLY.

5. CUT A SLIT FROM THE CENTER TO THE EDGE OF THE SUPPLIED 1.25" RUBBER GROMMET. SLIDE THE GROMMET ONTO THE CAMERA HARNESS BETWEEN THE CAMERA ASSEMBLY AND IN-LINE PCB. MOUNT THE GROMMET TO THE HOLE AS SHOWN IN **FIGURE 19**. ADD THE SUPPLIED SEALING PUTTY TO THE HOLE IN THE GROMMET AROUND THE HARNESS. USING THE SUPPLIED 1x2" PIECE OF DOUBLE-SIDED TAPE, MOUNT THE PCB TO THE INSIDE OF THE TRUNK LID AS SHOWN IN **FIGURE 20**. BE SURE TO CLEAN THE MOUNTING SPOT WITH AN ALCOHOL PAD FIRST.

6. CONNECT **RCA** CONNECTOR AND **DC POWER** CONNECTOR OF CAMERA HARNESS TO THE EXTENSION HARNESS. WRAP **RCA** AND **DC** CONNECTORS WITH FOAM TAPE PROVIDED. BE SURE HARNESS IS NOT BINDING AND IS CLEAR OF MOVING PARTS.

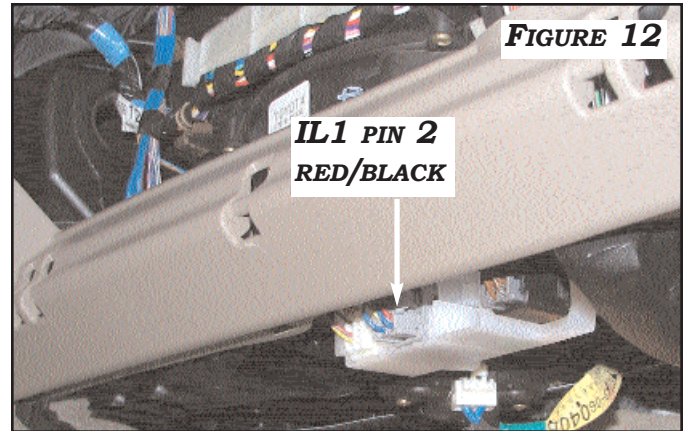


FIGURE 12

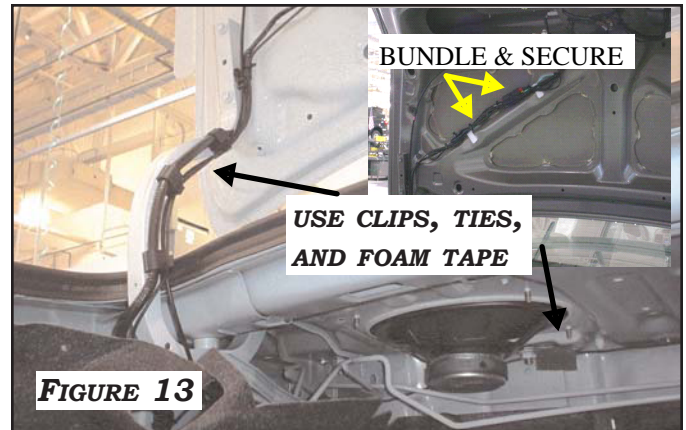


FIGURE 13

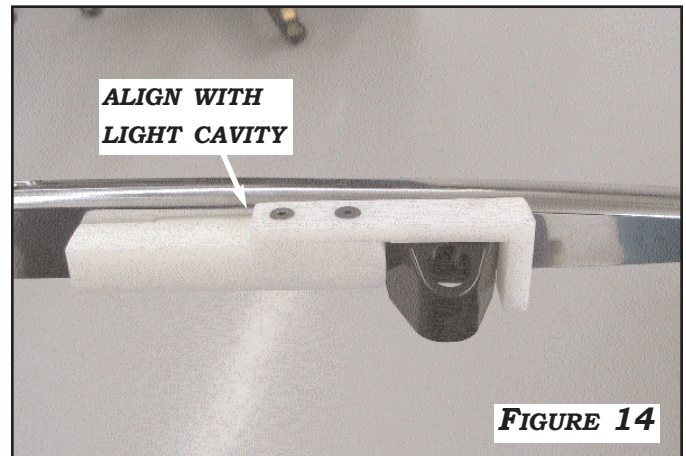


FIGURE 14



FIGURE 15

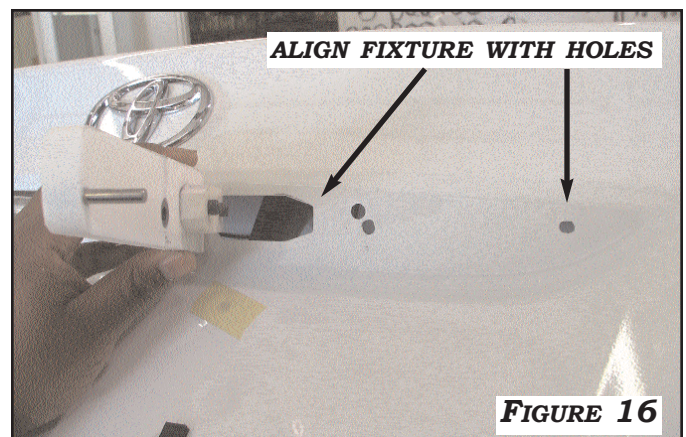
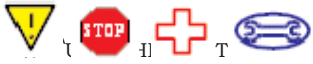


FIGURE 16

1. RECONNECT NEGATIVE BATTERY CABLE AND TORQUE TO 3 FT LBS. RE-ENTER ANY THE APPLICABLE.

TESTING AND REASSEMBLY



TOUCH ON. PUT THE VEHICLE IN REVERSE. VERIFY THAT THE REARSIGHT MIRROR IS ON AND THAT THE CAMERA'S PICTURE APPEARS.

3. IF THERE IS NO PICTURE, VERIFY ALL CONNECTIONS ARE SECURE.

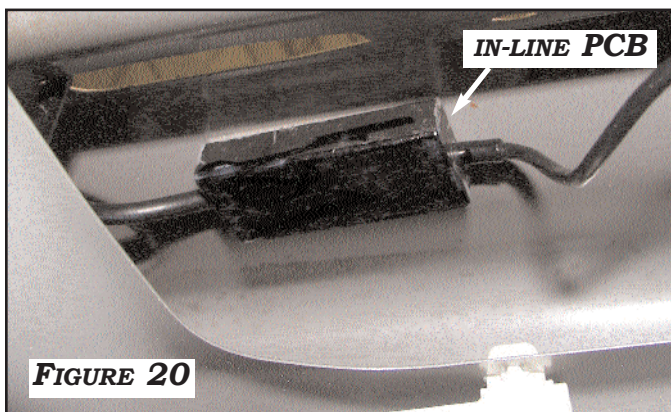
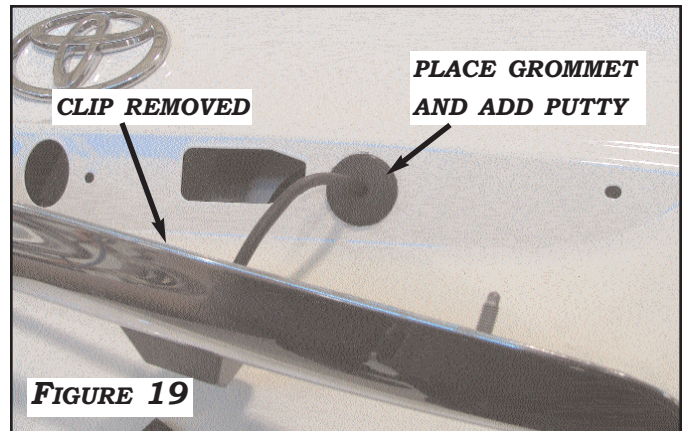
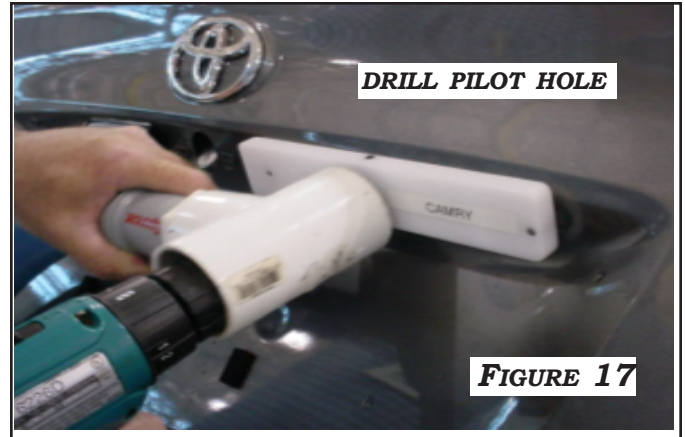
REASSEMBLY

1. REINSTALL ALL TRIM PIECES TAKING SPECIAL CARE TO ENSURE HARNESSES AND WIRING CONNECTIONS ARE PROPERLY SECURED.



BE SURE HARNESS IS NOT PINCHED OR BOUND BY TRIM PIECES.

3. PLACE THE OWNER'S CARD IN THE GLOVE BOX.
4. RECONNECT ALL DISCONNECTED BULBS AND CHECK FOR FUNCTION.





Section III - Functional Verifications

Check: _____

Look For: _____

Accessory Function Checks

- Turn the ignition switch to ON and put vehicle in reverse.
- With ignition switch ON & vehicle out of gear press "REV"
- With ignition switch ON & vehicle out of gear press "REV" again.

Verify camera picture comes on. (Image will disappear when vehicle is taken out of gear)

Verify camera picture comes on.

Verify camera picture turns off.

NOTE: PUTTING THE VEHICLE INTO REVERSE WILL INTERRUPT ANY CURRENT IMAGE ON THE SCREEN AND DISPLAY THE IMAGE FROM THE BACK-UP CAMERA UNTIL THE VEHICLE IS TAKEN OUT OF REVERSE. PRESSING AND RELEASING ANY INPUT BUTTON IN UNDER 1 SECOND WILL TURN THAT INPUT ON FOR 20 SECONDS. PRESSING AND HOLDING ANY INPUT BUTTON FOR LONGER THAN 1 SECOND AND THEN RELEASING IT WILL TURN THAT INPUT ON INDEFINITELY. THE INPUT CAN THEN BE TURNED OFF BY PRESSING THE BUTTON AGAIN, BY SWITCHING TO ANOTHER INPUT, OR BY TURNING OFF THE VEHICLE.

Vehicle Function Checks

- Overhead Map Light Operation
- Trunk Release
- Back Up Lights
- Radio Operation (Check by placing vehicle reverse gear)

Map lamps should turn on/off.

Verify trunk release handle operates

Verify back up lights comes on when placed in reverse.

Radio should operate normally.

APPENDIX

INSTALLING THE FUSE HARNESS

PRIOR TO CONNECTING THE RED WIRE OF THE REARSIGHT MIRROR POWER HARNESS TO THE SPECIFIED IGNITION WIRE IN THE VEHICLE, CONNECT THE SUPPLIED FUSE HARNESS TO THE RED "IGNITION" WIRE OF THE MIRROR POWER HARNESS BY MATING THE INSULATED CONNECTORS. THEN CONNECT THE OTHER END OF THE FUSE HARNESS TO THE SPECIFIED IGNITION WIRE IN THE VEHICLE.

