

TOYOTA **Camry**
Part Number: 00016-00085
Accessory Code: MC90

2010 -

Rear Sight



Kit Contents

Item #	Quantity Req'd.	Description
1	1	MIRROR / MONITOR
2	1	REAR CAMERA ASSEMBLY
3	1	CAMERA EXT. HARNESS
4	1	SACK PARTS
5	1	OWNER'S CARD
6	1	MIRROR POWER HARNESS
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 SIDE-MOLDING TAPE
6	1	SEALING PUTTY
7	1	ALCOHOL PAD
8	1	RUBBER GROMMET
	1	ADJUSTABLE CABLE COVER

Additional Items Required For Installation

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

Conflicts

Note: Not compatible with Hybrid models

Recommended Tools

Safety Tools	
IR TEMP PROBE	
REAR CAMERA MOUNTING FIXTURE	
TRUNK HOLDER & VACUUM	
Installation Tools	
FASTENER REMOVAL TOOL / WIRE CUTTERS	
TRIM REMOVAL TOOL	TORX-20 WRENCH
10-MM DEEP SOCKET	PLIERS
TORQUE WRENCH	36IN. LBS
1/4" DRILL BIT	
1 1/16" HOLE SAW	
Special Chemicals	
SOAPY WATER OR ALCOHOL/WATER	

Color Applicability/Trim Level

Accessory Color									
Vehicle/Trim Color									

General Applicability

All models except w-factory installed Home-link mirrors & Hybrids

Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

*Mandatory

Legend

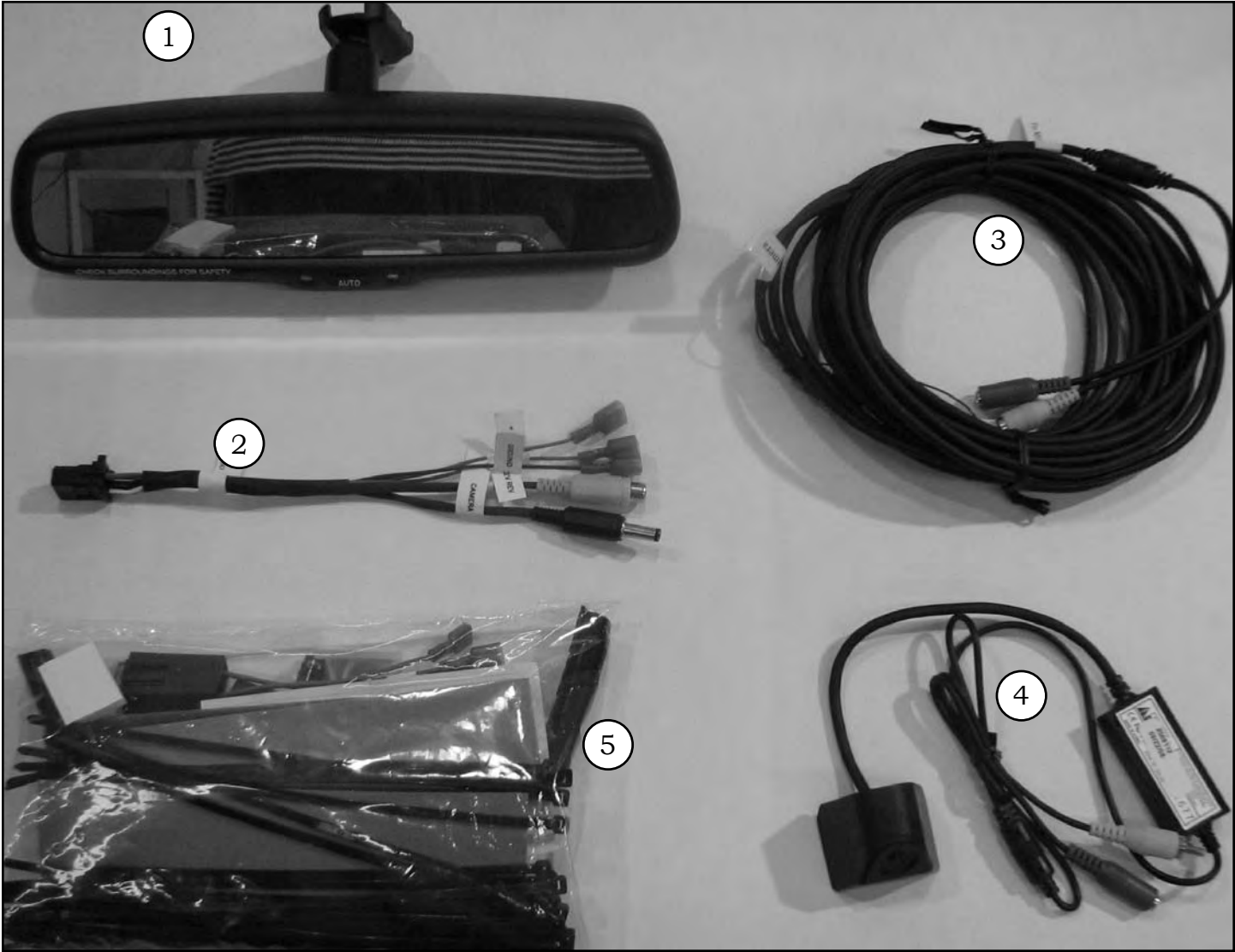
	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.
	SAFETY TORQUE: This mark indicates that torque is related to safety.

SPECIAL NOTE:

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 the 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.

PARTS IDENTIFICATION

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	00016-00085-01	2.4" REARSIGHT MIRROR
2	1	00016-00085-02	MIRROR ADAPTER HARNESS
3	1	00016-00040-04	CAMERA EXTENSION HARNESS
4	1	00016-00040-02	REAR CAMERA ASSEMBLY
5	1	00016-00040-03	SACK PARTS: TIE STRAPS, T-TAPS, SEALING PUTTY



VEHICLE PREPARATION



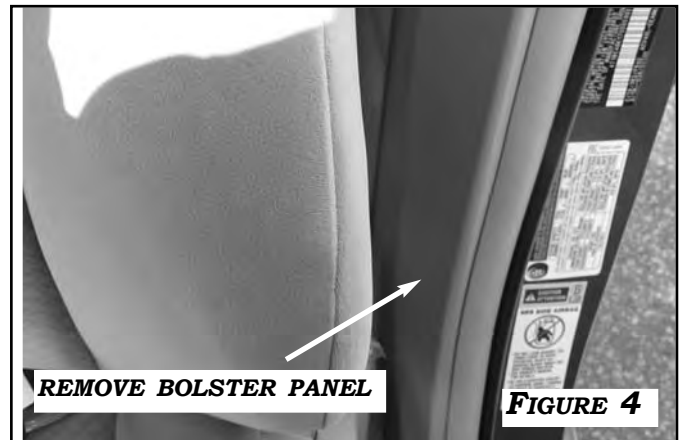
CAUTION: IT IS ADVISABLE TO DISCONNECT THE NEGATIVE BATTERY CABLE FOR 3 MINUTES BEFORE BEGINNING INSTALLATION, TO AVOID UNINTENDED AIR BAG DEPLOYMENT. NOTE AND RECORD ANY ANTI-THEFT RADIO CODES PRIOR TO DISCONNECTING.



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 DRIVER SIDE SUNVISOR RETAINING CLIP.
3. REMOVE OR LOOSEN DRIVER SIDE TRIM PANELS INCLUDING: A-PILLAR TRIM, GLOVE BOX, KICK PANEL AND DOOR SILL TRIM; B-PILLAR KICK PANEL AND REAR DOOR SILL TRIM. REMOVE THE REAR SEAT BOTTOM CUSHION, DRIVER SIDE BOLSTER CUSHION, AND THE 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 REARSIGHT MIRROR ON EXISTING WINDSHIELD LUG AND TIGHTEN SCREW. Connect Mirror Adapter Harness to the mirror. **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** INPUT (yellow connector) OF MIRROR HARNESS. CONNECT **MALE DC** POWER CONNECTOR OF CAMERA EXTENSION HARNESS TO CAMERA **POWER** OUTPUT (red connector) OF REARSIGHT MIRROR HARNESS. WRAP ALL **RCA/DC** CONNECTORS WITH THE FOAM TAPE PROVIDED. **FIGURE 9**

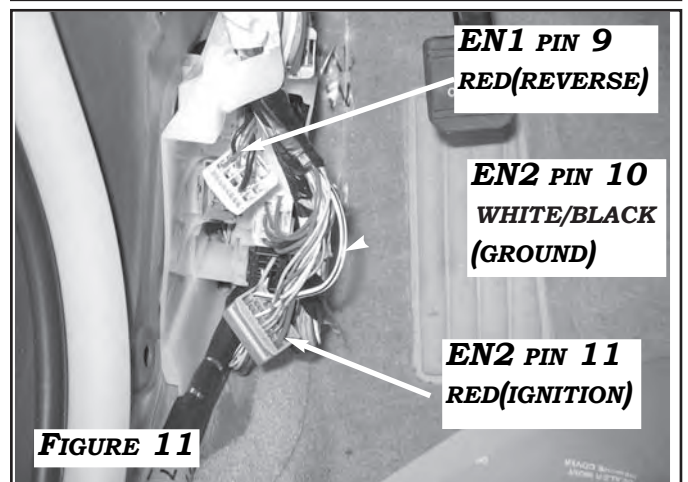
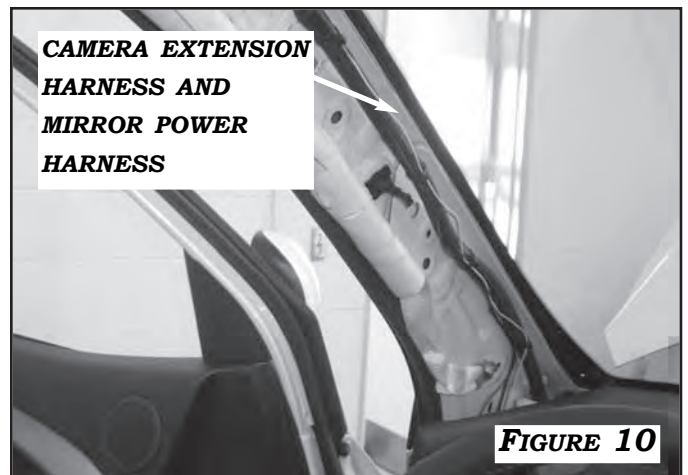
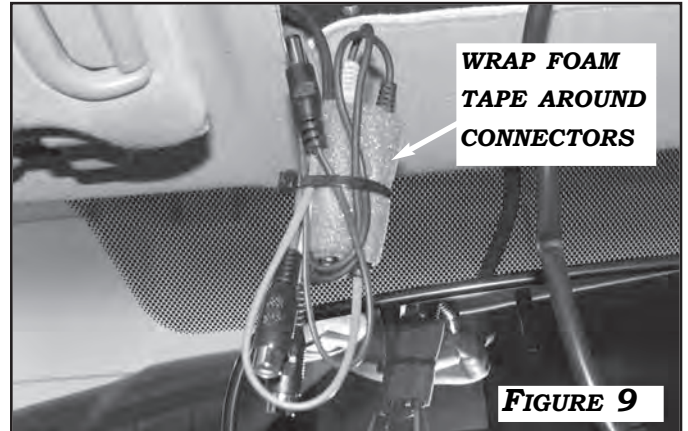
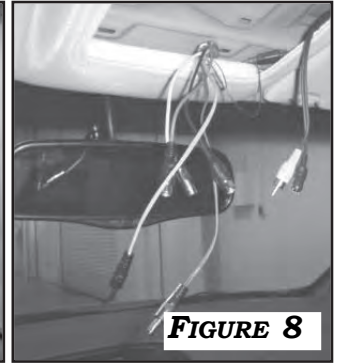
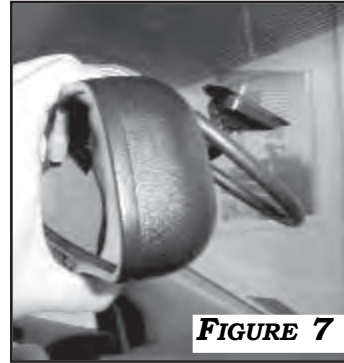


ROUTING HARNESSES AND POWER CONNECTION

1. ROUTE **CAMERA EXTENSION HARNESS** AND **MIRROR POWER HARNESS** (RED, BLACK AND WHITE WIRES) ABOVE HEADLINER TO DRIVER-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 BLUE CONNECTOR **EN2**. AT THE DRIVER SIDE KICKPANEL. USE THE SUPPLIED RED T-TAP CONNECTOR TO CONNECT THE **RED IGNITION WIRE** OF THE **MIRROR POWER HARNESS** TO THE **RED WIRE** IN **PIN 11** OF BLUE CONNECTOR **EN2**. USE A BLUE T-TAP TO CONNECT THE **BLACK GROUND WIRE** OF THE MIRROR POWER HARNESS TO THE **WHITE/BLACK WIRE** IN **PIN 10** OF BLUE CONNECTOR **EN2**. LOCATE WHITE CONNECTOR **EN1**. USE THE SUPPLIED RED T-TAP CONNECTOR TO CONNECT THE **WHITE REVERSE WIRE** OF THE **MIRROR POWER HARNESS** TO THE **RED WIRE** IN **PIN 9** OF CONNECTOR **EN1**. SECURE ALL HARNESSES WITH WIRE TIES. **FIGURE 11**

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 DRIVER 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. **FIGURE 12**



INSTALLATION

Installation Temperature



Surface temperature must be between 70° F and 110° F for optimum installation.

MOUNTING CAMERA AND PCB

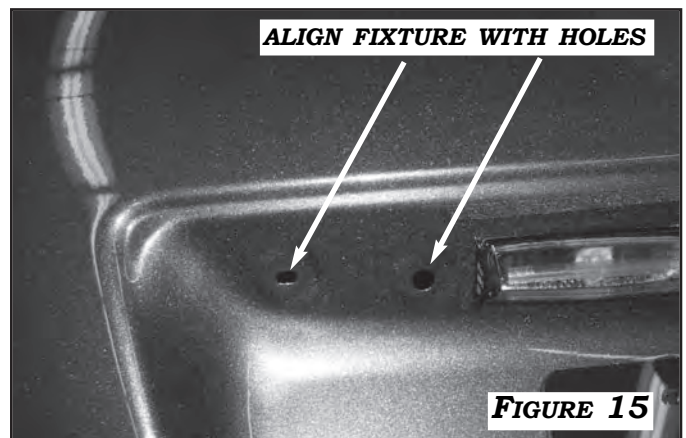
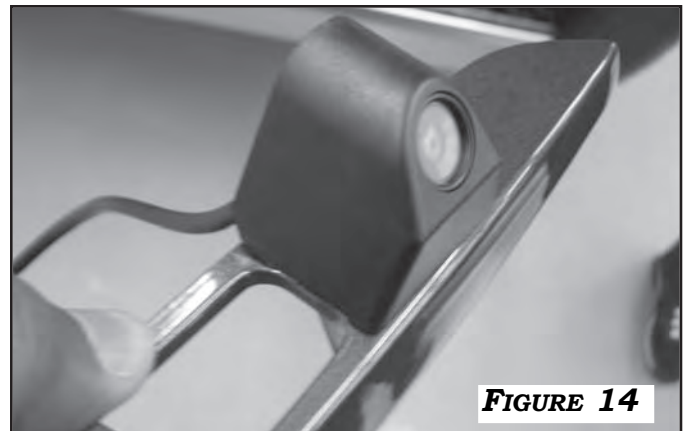
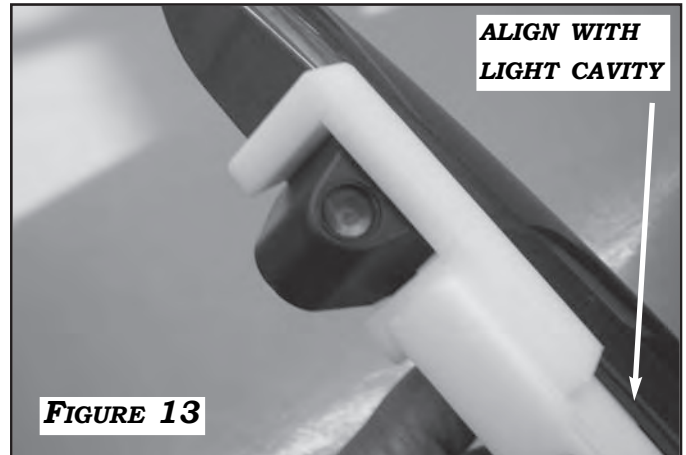
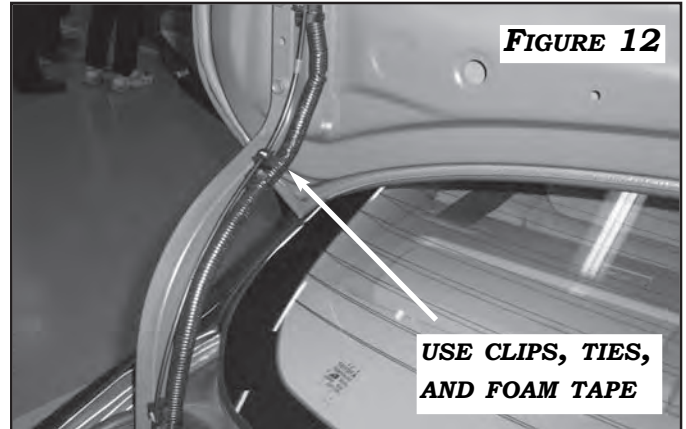


1. CLEAN THE LEFT SIDE OF THE BOTTOM OF THE LICENSE PLATE TRIM PIECE WITH ALCOHOL. REMOVE THE LEFT SIDE WHITE CLIP FROM THE BACK OF THE TRIM PIECE. ATTACH THE REARSIGHT CAMRY REAR CAMERA MOUNTING FIXTURE TO THE TRIM PIECE USING THE LEFT LICENSE PLATE LIGHT CAVITY AS A GUIDE AS SHOWN IN **FIGURES 13-14**. 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. USE THE CAMRY TRUNK LID DRILLING FIXTURE TO LOCATE AND DRILL A 1/4" PILOT HOLE AS SHOWN IN **FIGURES 15-16** THEN USE A 1-1/16" HOLE SAW TO CUT A LARGER HOLE VIA THE PILOT HOLE AS SHOWN IN **FIGURE 17**. DEBURR THE HOLE AND COAT THE EDGE WITH APPROVED SILICONE SEALANT

3. 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 18**. 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 19**. BE SURE TO CLEAN THE MOUNTING SPOT WITH AN ALCOHOL PAD FIRST.

4. CONNECT **RCA** CONNECTOR AND **DC POWER** CONNECTOR OF CAMERA HARNESS TO THE EXTENSION HARNESS. WRAP **RCA** AND **DC** CONNECTORS WITH FOAM TAPE PROVIDED. PROPERLY BUNDLE AND SECURE EXCESS HARNESS INSIDE OF REAR DOOR. BE SURE HARNESS IS NOT BINDING AND IS CLEAR OF MOVING PARTS.



TESTING AND REASSEMBLY

TESTING



1. RECONNECT NEGATIVE BATTERY CABLE AND TORQUE TO **3 FT LBS**. RE-ENTER ANY THEFT DETERRENT INFORMATION, IF APPLICABLE.



2. TURN THE IGNITION SWITCH **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.

2. 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.

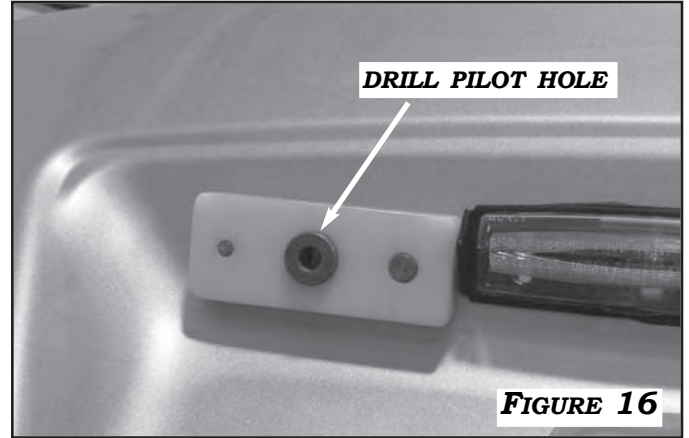


FIGURE 16

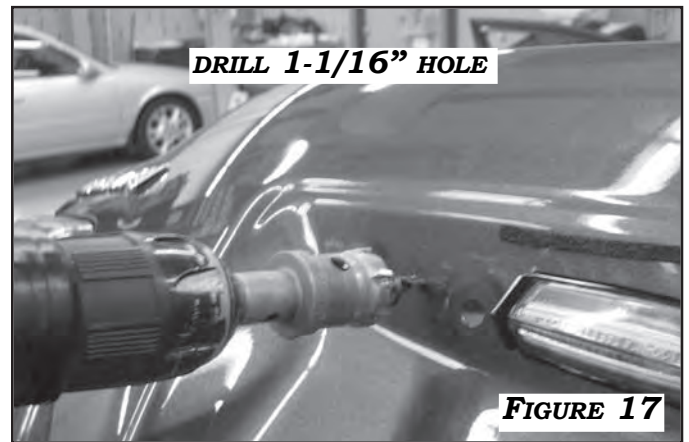


FIGURE 17

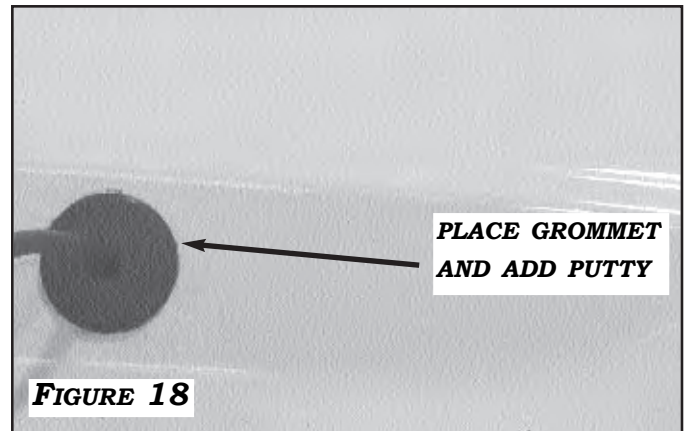


FIGURE 18

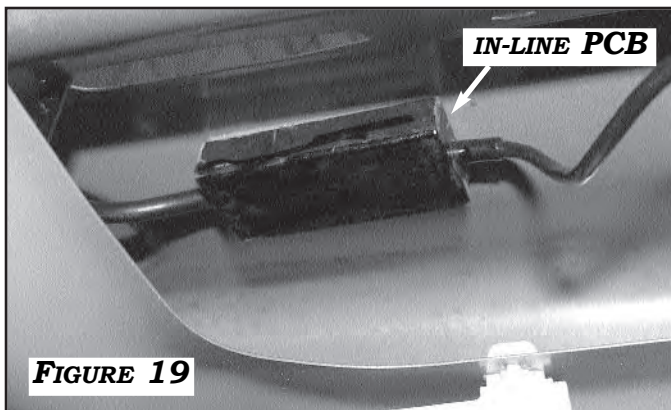


FIGURE 19



FIGURE 20



CHECK: _____

LOOK FOR: _____

ACCESSORY FUNCTION CHECKS

TURN THE IGNITION SWITCH ON AND PUT VEHICLE IN REVERSE

VERIFY CAMERA PICTURE COMES ON. (IMAGE WILL DISAPPEAR WHEN VEHICLE IS TAKEN OUT OF GEAR)

TURN THE IGNITION SWITCH ON AND PRESS "AUTO" BUTTON

VERIFY LED LIGHT IS ON IN IGNITION

VEHICLE FUNCTION CHECKS

OVERHEAD MAP LIGHT OPERATION

MAP LAMPS SHOULD TURN ON/OFF

TRUNK RELEASE

VERIFY TRUNK RELEASE HANDLE OPERATES

BACK UP LIGHTS

VERIFY BACK UP LIGHTS COMES ON WHEN PLACED IN REVERSE

RADIO OPERATION (CHECK BY PLACING VEHICLE IN REVERSE GEAR)

RADIO SHOULD OPERATE NORMALLY

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THAT WERE REMOVED, TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.

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.

