2005-

REAR SIGHT

Section I – Installation Preparation

Part Number: 00016-00040

Code: MC1



REVISION

Section I – Installation Preparation

Kit Contents

Item#	Quantity Reqd.	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 Reqd.	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	R ubber Grommet

Additional Items Required For Installation

Item#	Quantity Reqd.	Description
1	N/A	ELECTRICAL TAPE

Conflicts

Note:

Recommended Tools

Safety Tools	
Special Tools	
IR Temp Probe	
Installation Tools	
FASTENER REMOVAL TOOL	WIRE CUTTERS
TRIM REMOVAL TOOL	TORX-20 WRENCH
10-MM DEEP SOCKET	PLIERS
Torque Wrench (36 in. lb.)	
Special Chemicals	
Soapy Water or Alcohol/water	

Color Applicability/Trim Level

Accessory					
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 REARSIGHT MONITOR/MIRROR		
1	1	00016-00040-01			
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.

VEHICLE PREPARATION



DIS-CONNECT THE NEGATIVE BATTERY CABLE BEFORE

BEGINNING INSTALLATION.



VEHICLE PREPARATION

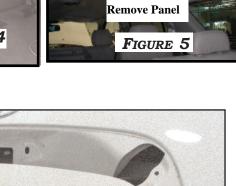
- 1. Loosen Torx-20 windshield lug mount screw and REMOVE EXISTING REARVIEW MIRROR. FIGURE 1
- 2. Remove overhead console by removing the philips AND TORX SCREWS IN THE OVERHEAD COMPARTMENTS AND PULLING DOWN THE CONSOLE AS SHOWN FIGURE 2. REMOVE THE DRIVER SUNVISOR RETAINING CLIP.
- 3. Remove or loosen driver side trim panels including A-PILLAR TRIM, KICK PANEL AND DOOR SILL TRIM, DASH PANEL; REAR DOOR SILL TRIM & HATCH DOOR SILL TRIM.
- 4. REMOVE CARGO LIGHT COVER. 2 SCREWS & UPLUG LIGHT. UNSNAP UPPER TRIM PANEL & UPLUG 3RD. BRAKE LIGHT WIRE. PULL BACK THE DRIVER SIDE REAR CARPET TO EXPOSE THE METAL FLOOR. FIGURES 3-6
- 5. Remove tail gate hand strap cover by pressing in panel ABOVE STRAP AND PUSH COVER UP AND OFF, THEN REMOVE 10MM BOLT SECURRING HAND STRAP.

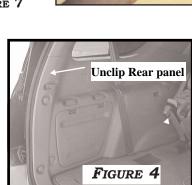


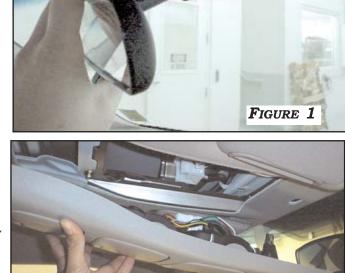
- 6. Remove interior trim panels at tailgate as numbered. FIGURE 6
- 7. REMOVE 2 GROMMETS, AND REMOVE THE MOLDED TRIM PIECE BEHIND THE LICENSE PLATE BY REMOVING THREE (3) 10MM NUTS AND UNCLIPPING FIVE (5) PLASTIC CLIPS. FIGURE 7

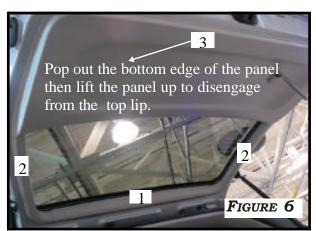














INSTALLATION

INSTALLING MONITOR/MIRROR

1. Mount Rear Sight mirror on existing windshield lug and tighten screw. (Figure 8) 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 9



2. Connect male RCA video connector of camera extension harness to Video 1 input (black cable) of the mirror harness. Connect male DC power connector of camera extension harness to Power 1 output (green cable) of Rear Sight mirror harness. Wrap all RCA and DC Connectors with the foam tape provided. Figure 10

WIRE ROUTING AND CONNECTIONS



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 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 11



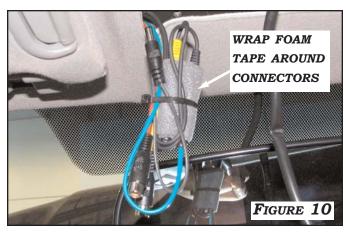
2. Locate gray connector IB1 at the driver side kick-panel. Use the supplied red T-Tap connectors to connect the Red Ignition wire of the Mirror Power Harness to the Black/Red wire in Pin 9 of connector IB1. Connect the Black Ground wire of the Mirror Power Harness to the White/Black wire in Pin 12 of Junction connector J7. Locate black connector 1E on the driver side junction box on the back of the fuse box. 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 9 of connector 1E. Secure all harnesses with wire ties. Figures 12-13

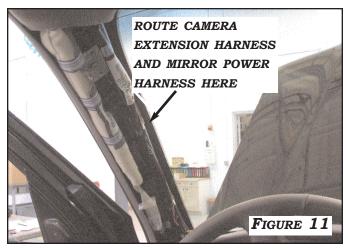


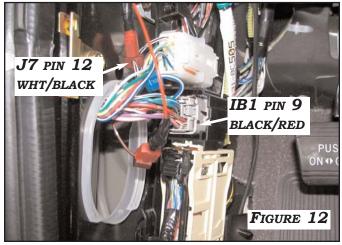
3. Route the camera extension harness from the kick-panel under the front and rear door sill trim and beside the rear seat to the cargo area. Use factory wire channels and retaining clips. Route the harness along the floor under the left rear trim panels and up the left D-pillar, then above the headliner to the rear door hose grommet. Disconnect and remove the vehicle harness with the hose grommet from the rear door by cutting the tape holding the harness to the retainer clips. For installed spoiler vehicles, remove the third brake light to disconnect the harness from inside the door cavity. Pull both grommets out of the door so and straighten the hose as shown in Figure 14. Use soapy water and a pulling tool to pull the camera extension harness through the hose and the rear door.











INSTALLATION

4. Replace the Rubber hose grommets in the door. Re-attach the factory rear door harness to the retainer clips. Route the camera extension harness along the factory harness and secure with wire ties.



5. Cut a slit in the grommet shown in **Figure 14a**. Route the camera extension harness through this grommet to inside the door. Seal the slit with putty. Using wire ties, route the extension harness tightly along the factory harness to avoid moving parts as shown in **Figure 15**.

MOUNTING CAMERA AND PCB

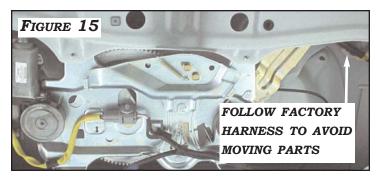


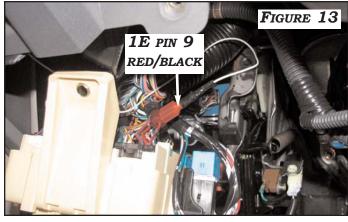
Installation Temperature

Surface temperature must be between 70^0 F and 110^0 F for optimum installation.



- 1. CLEAN THE RIGHT SIDE OF THE BOTTOM OF THE LICENSE PLATE TRIM PIECE WITH ALCOHOL. MATE THE TRIM PIECE TOGETHER WITH THE REARSIGHT SEQUOIA REAR CAMERA MOUNTING FIXTURE. USE LICENSE PLATE SCREW HOLE AS A GUIDE AS SHOWN IN FIGURE 17. 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. REMOVE THE RIGHT LICENSE PLATE LIGHT ASSEMBLY FROM THE TRIM PIECE BY REMOVING TWO (2) PHILIPS SCREWS. ROUTE THE CAMERA HARNESS INSIDE THE LIGHT CAVITY AND REPLACE THE LIGHT ASSEMBLY. FIGURE 18
- 2. Route the camera harness along the existing trim piece harness. Use wire ties to secure it as shown in Figure 19. Connect the latch cable to the latch and replace the trim piece onto the vehicle, being careful not to pinch the wires. Mount the PCB to the inside of the rear door near the lock using the supplied 1x2" double-sided tape as shown in Figure 21. Clean the area with an alcohol pad first.
- 3. 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. FIGURE 16

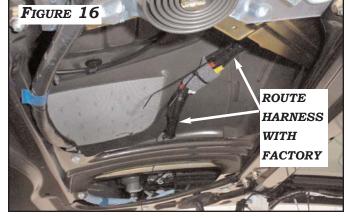






NOTE: THE REAR WINDOW ROLLS DOWN. ROUTE THE HARNESS AWAY FROM MOVING PARTS; CLEAR THE WINDOW.





TESTING AND REASSEMBLY

TESTING



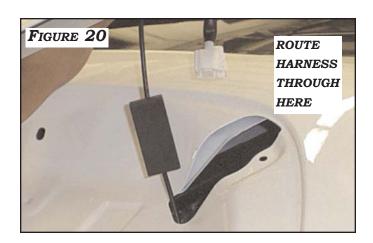
1. RECONNECT NEGATIVE BATTERY CABLE AND TORQUE TO 3 FT LBS. RE-ENTER ANY THEFT DETERRENT INFORMATION, IF APPLICABLE.

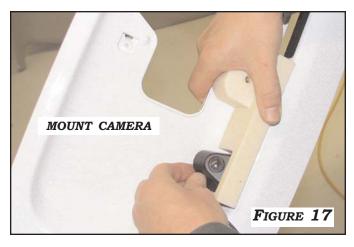


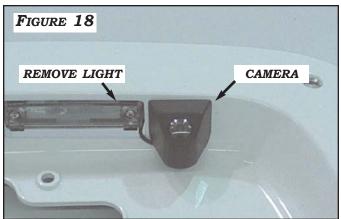
- **2.** Turn the ignition switch **on**. Put the vehicle in reverse. Verify that the RearSight Mirror is on and that the camera's picture appears.
- **3.** If there is no picture, verify all connections are secure.

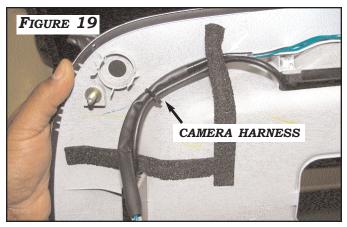
REASSEMBLY

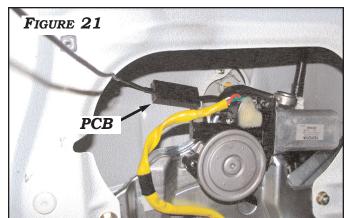
- 1. Reinstall all trim pieces taking special care to ensure harnesses and wiring connections are properly secured.
- PIE
- **2.** Be sure harness is not pinched or bound by trim pieces.
- **3.** Place the Owner's card in the glove box.
 - **4.** Reconnect all disconnected bulbs and check for function.
- **5.** Initialize rear tailgate window













\ <u>•</u>	Section III - Functional Verifications				
•	Check:	Look For:			
Acces	sory Function Checks				
	Turn the ignition switch to ON and put vehicle in reverse.	Verify camera picture comes on. (Image will disappear when vehicle is taken out of gear)			
	With ignition switch ON & vehicle out of gear press "REV"	Verify camera picture comes on.			
	With ignition switch ON & vehicle out of gear press "REV" again.	Verify camera picture turns off.			
	NOTE: PUTTING THE VEHICLE INTO REVERSE WIL AND DISPLAY THE IMAGE FROM THE BACK-UP CAI REVERSE. PRESSING AND RELEASING ANY INPUT I INPUT ON FOR 20 SECONDS. PRESSING AND HOLDING A THEN RELEASING IT WILL TURN THAT INPUT ON INDIBY PRESSING THE BUTTON AGAIN, BY SWITCHING VEHICLE.	BUTTON IN UNDER 1 SECOND WILL TURN THAT INY INPUT BUTTON FOR LONGER THAN 1 SECOND AND EFINITELY. THE INPUT CAN THEN BE TURNED OFF			
Vehi	cle Function Checks				
	Overhead Map Light Operation	Map lamps should turn on/off.			
	Third brake light (Spoiler Installed Only)	Verify light turns on/off.			
	Rear Tailgate Glass Operation	Operates with no interference of wires.			
	Radio Operation (Check by placing vehicle	Radio should operate normally.			
	reverse gear)				

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.

