

TOYOTA

4 RUNNER

2003 -

GENTEX MIRROR

Part Number: 00016-89931

Section I – Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Full Mirror Assembly
2	1	Wire Cover
3	1	Mirror Wire Harness
4	1	T-Tap, Red 3M
5	5	Cable Ties
6	1	Operation Instruction Card
7		
8		

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1		
2		
3		
4		
5		
6		
7		
8		

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

Note:

Recommended Tools

Safety Tools	
Special Tools	
Installation Tools	
Special Chemicals	

Color Applicability/Trim Level

[illegible]

General Applicability

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.

 **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:** 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.

4-RUNNER - Compass EC Mirror

1.0 Vehicle preparation

- 1.1 Inspect electrochromic mirror for damage or defects.
- Verify with parts list. Refer to appendix A.
 - Place parts on a clean, padded surface.
 - If the vehicle is equipped with an anti-theft radio, the security code must be recorded prior to disconnecting the battery cable. The code should be reentered after reconnecting the negative battery terminal.
 - Record customer's programmed radio stations.
- 1.2 Disconnect negative cable from battery (figure 1).
- Loosen nut on negative terminal, remove cable and secure away from battery. (figure 1).

2.0 Installation preparation

- 2.1 Remove driver's side pillar garnish. (figure 2).
- 2.2 Remove driver's side scuff plate. (figure 3).
- 2.3 Remove driver's side cowl cover. (figure 4).
- Must remove foot rest to access cowl cover.
- 2.4 Remove original equipment (OEM) rearview mirror.
- Discard the OEM mirror.

3.0 Interior mirror installation

- 3.1 Connect the wire harness to the EC mirror.
- Plug the wire harness 7 pin connector into the back of the mirror. (figure 5)
 - Route the complete wire harness along the mirror mount.
- 3.2 Mount the mirror assembly to the windshield.
- Slide the electronic mirror onto the windshield mounting button.
 - Tighten the screw on the mirror mounting bracket until the mirror is snug on the mounting bracket.
DO NOT OVER TIGHTEN.
[Max Torque - 20 in~lbs]

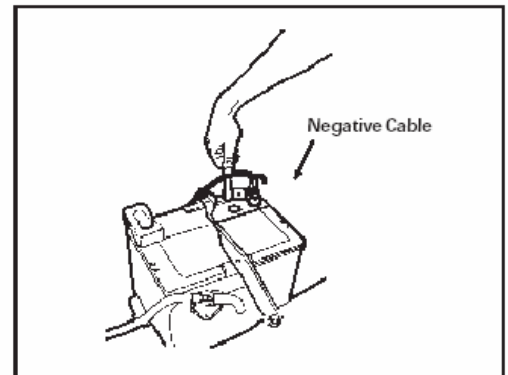


figure 1



figure 2

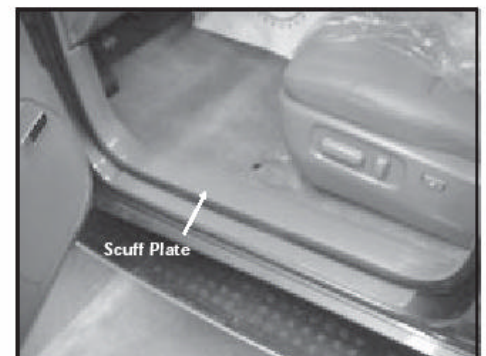


figure 3

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- 3.3 Route the mirror wiring harness.
 - Route the mirror wire harness into the groove of the windshield wire cover. (figure 5)
 - Attach the windshield wire cover to the mirror mounting bracket.
 - Slide the wire cover firmly under the headliner.
 - Use your fingers or nylon tool to tuck the remaining wire harness between the headliner and the roof.
 - Route the wire harness along side the OEM wiring harness on the driver's side pillar and under the dash.
 - Using wire ties, secure the complete mirror wire harness to the drivers side pillar, in 3 places as shown. (figure 6)
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- 3.4 Wiring connector (ground)
 - Route the mirror ground wire (ribbed insulation) to the ground point, ie. (figure 7)

Vehicle Grounding point IG.

4-RUNNER	Factory Ground Point IG	figure 7
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- 3.5 Wiring connection (12Vdc) power
 - Attach ring terminal to 6mm stud at IG. (figure 7)
 - Route the 12 volt (spade terminal) wire to the ignition wire.

Vehicle Ignition wire		connector block IJ	
4-RUNNER	Pin #A9	Brown/Red wire	figure 7

- Locate the proper power outlet wire and apply t-tap to pin #A9, connector IE1. (figure 7)
- Connect wire to t-tap.
- Secure the loose mirror wire harness with the remaining cable ties.



NOTE: When routing wires, stay clear of sharp edges that could cut the insulation.

4.0 Testing

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- 4.1 Re-connect the negative battery cable. Torque to 3 ft.-lbs.
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- 4.2 Turn the ignition switch to ON.
- 4.3 With the vehicle in a fairly well-lit area, perform the following:
 - Verify that the green LED light is on, Auto Mirror is enabled when Auto LED is on.
 - Cover the forward-looking photocell located below the wire harness connection on the back side of the mirror (a dark cloth or towel will work). (figure 8)
 - After a few seconds, the mirror will begin to darken (the time may vary with ambient light levels).
 - Remove the cover from the forward photocell and the mirror will begin to clear.
 - The test is now complete.

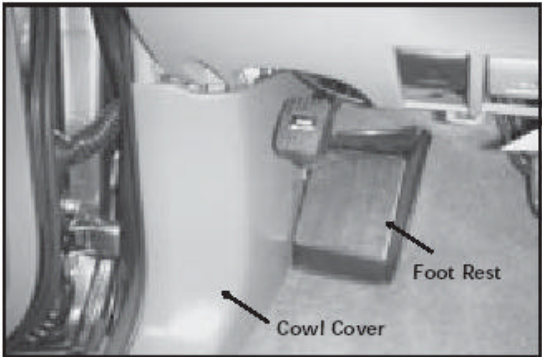


figure 4

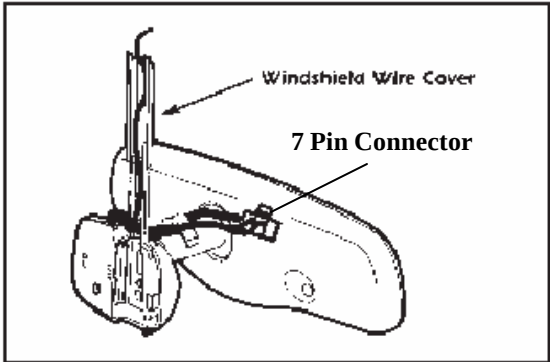


figure 5



figure 6

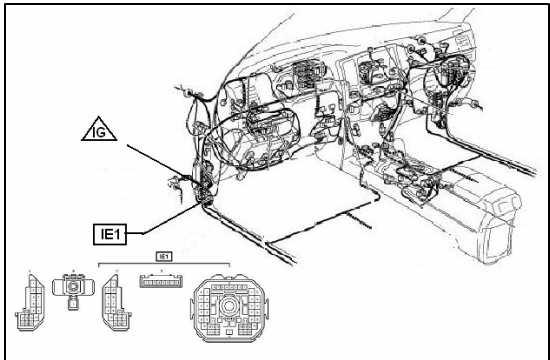


figure 7

5.0 Final assembly

5.1 Reinstall all removed components.

- Install the driver's side cowl cover.
- Install the driver's side scuff plate.
- Install the driver's side pillar garnish.
- Reenter the security code and customer programmed radio stations.
- Place the operation instruction card in the vehicle glovebox in the vehicle owners' manual.

6.0 Operation

6.1 Compass

- Push in "Comp" side of switch to turn compass on/off. Compass is enabled when a direction or a "C" appears in the mirror display window.



- The compass must be calibrated upon initial installation and recalibrated if the mirror is ever removed from this vehicle.



- Calibration

1. With the mirror "on", if a "C" is not displayed in the compass window, push in the Comp side of switch and hold for 6 seconds until the letter "C" is displayed.
2. The compass can be calibrated by driving the vehicle in 360-degree circles at 5 mph or less until the display reads a direction or by driving the vehicle on your everyday routine. The compass will be calibrated once it has tracked at least a 360-degree circle.

This completes the compass calibration for the vehicle. Recalibration is not required for as long as the mirror is left in the same vehicle.

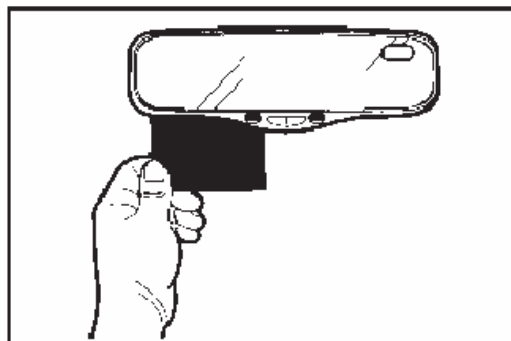


figure 8