Toyota Corolla/Matrix 2009- Cruise Control Kit

Part Number : 00016-01208
Accessory Code: CL7

TOYOTA
Southeast Toyota Distributors, LLC

Base Kit Contents

Item	Qty	Description
1	1	Control Switch Assembly
2	2	Screws (M5)

Hardware Bag Contents

Item	Qty	Description

Additional Items Required for Install

Item	Qty	Description
1	1	Tool Die PN 00016-01203-01
2	1	Extraction Tool 00016-01203-03

Conflicts

Note: All vehicles with VIN's beginning with "2T1", and automatic transmission vehicles with VIN's beginning with "1NX" require service part item 1 listed at right.

Recommended Tools

Personal & Vehicle Protection	
Safety Glasses	
Fender Cover	
Gloves (optional)	
Special Tools	
Battery Post Protector	
Installation Tools	
Trim Removal Tool	Phillips Screwdriver
10-mm Wrench	T-30 Bit
3/4 Wrench Drive	Torque Wrench
Drill Bits	5mm 13/64" & 8m 11/32
13mm Socket	Electrical Tape
Special Chemicals	
Silicone Sealant	

Svc Contents

Item	Qty	Description	Part Number
1	1	Cutting Tool	00016-01203-01
2	1	Extraction Tool	00016-01203-03

General Applicability

Corolla/Matrix

Service Parts

Item	Part#	Description
1	00016-01208-02	Cruise ECM Harnesses
		(see "Conflicts")

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.

Special Note: Installation Sequences

After **Safety** mandated prepatory 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.

INSTALLATION

CONTROL SWITCH

Location: Right Side Steering Wheel Cover

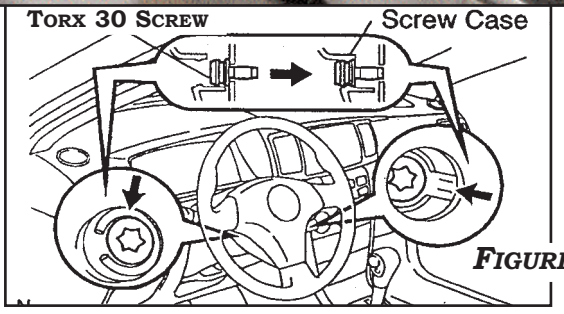


Figure 1

CAUTION: *ensure that battery has been disconnected for more than 90 seconds prior to removal of airbag; Failure to head this warning may result in airbag discharge and may cause serious injury or death.*

2. Remove Airbag by releasing side panels from steering wheel and extracting the two 30 Torx screws as illustrated in ***Figure 1.***

3. Remove ground terminal and dummy horn/cruise connector from steering wheel and discard. Utilize small screwdriver to remove airbag connectors as illustrated in ***Figure 2.***

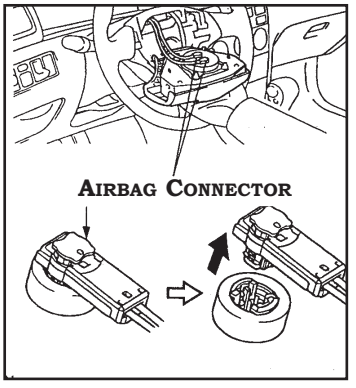


Figure 2

CAUTION: *Be sure to store Airbag face up as illustrated in Figure 3 to reduce injury in event of accidental discharge of airbag.*

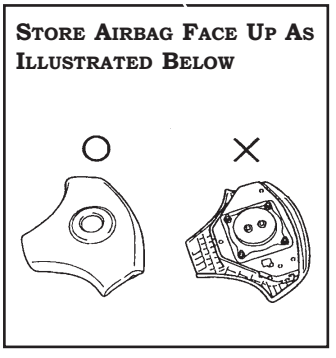


Figure 3

INSTALLATION

CONTROL SWITCH Continued

4. Using the **Switch Hole Cutting Template** on page 5, Place the template on the inside of the trim piece as shown and drill two ***(2)* 5mm (13/64")** holes and one ***(1)* 8mm (11/32")** hole. ***Figure 4***

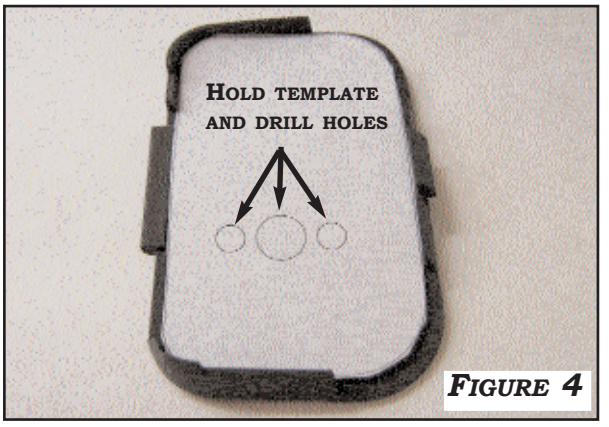


Figure 4

5. Using the **Switch Hole Cutting Tool,** Insert the cutting tool into the drill holes of trim piece and with 13mm socket, tighten the screw until plastic hole is cut out. ***Figures 5 & 6.***

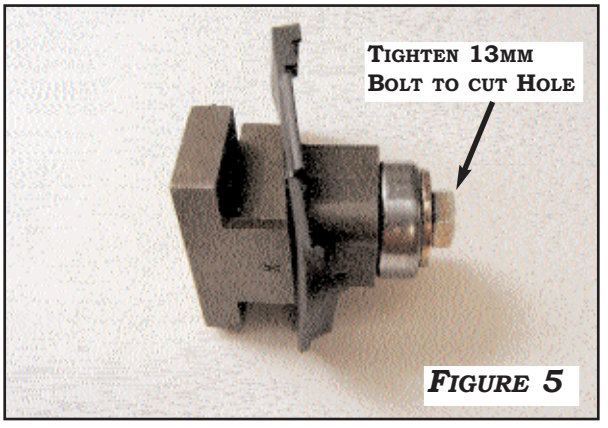


Figure 5

6. Sometimes the cutting die may get lodged in the steering shroud material; in this case, utilize the Cutting Extraction Tool to remove die.

Thread T-Bolt into die as shown in ***Figure 7*** and pull to remove die from steering shroud.

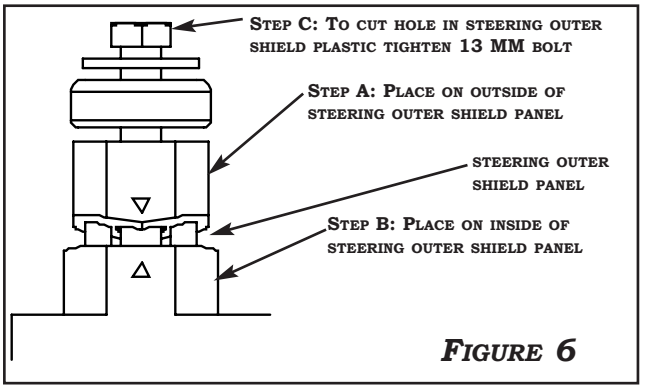


Figure 6

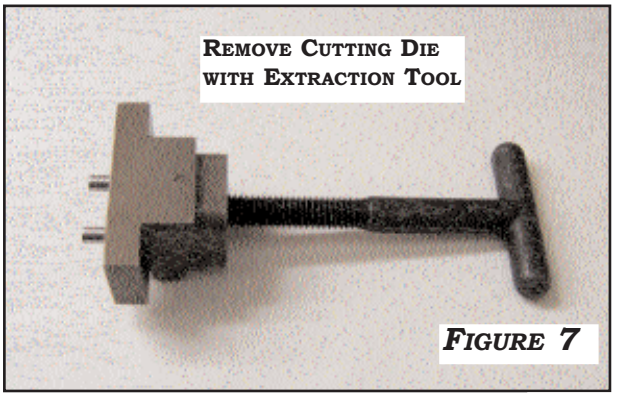


Figure 7

INSTALLATION

CONTROL SWITCH Continued

7. Mount Cruise Control switch with two *(2)* Phillips screws provided. Remove ground terminal and dummy horn/cruise connector from steering wheel and dis card. Plug in cruise switch connector ensuring to reconnect ground terminal. ***Figure 9***

8. ReInstall Airbag. Torque screws to 78 in. lbs.

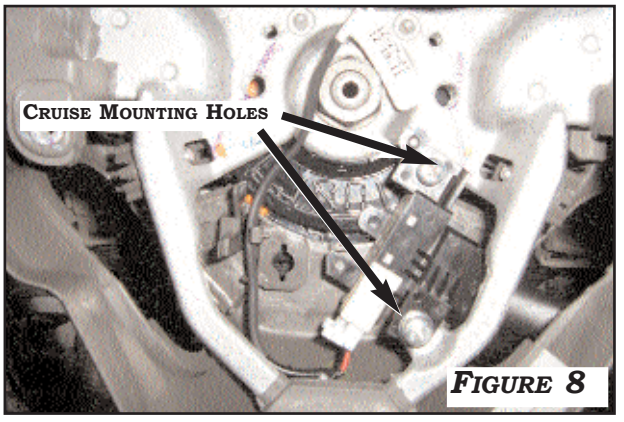


Figure 8

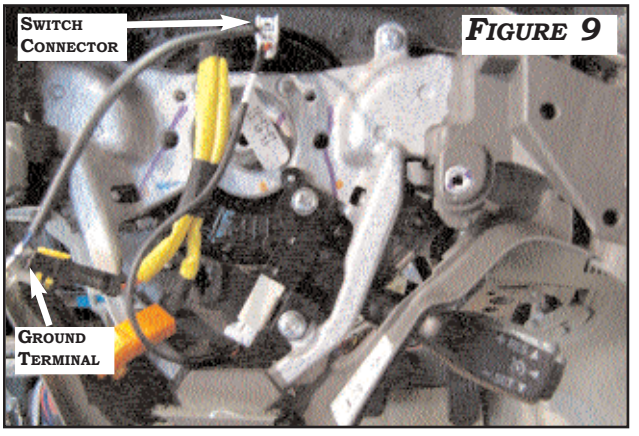


Figure 9

TESTING

1. Reconnect negative battery cable and torque to **3 ft*lbs**.

2. Turn the ignition to the "on" position. Press the "Cruise On-Off" button. This turns the system on. The indicator light in the instrument panel will come on. If this light comes on, see the operating instructions. If the light does not come on, see next page.

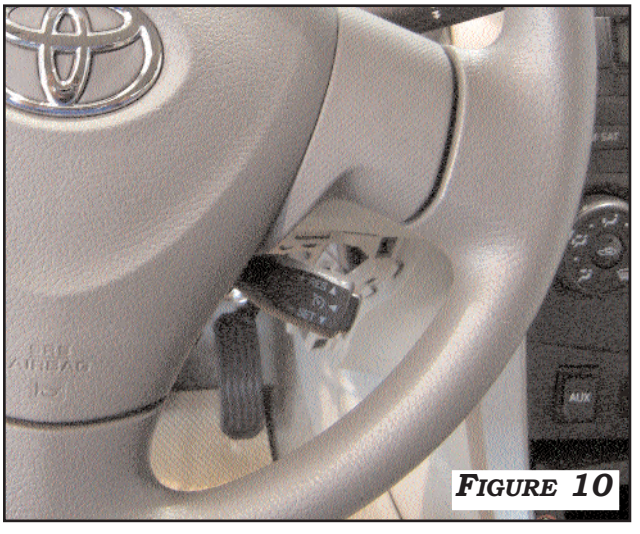


Figure 10

INSTALLATION

***CAUTION:** ENSURE THAT BATTERY HAS BEEN DISCONNECTED FOR MORE THAN 90 SECONDS PRIOR TO REMOVAL OF AIRBAG; FAILURE TO HEAD THIS WARNING MAY RESULT IN AIRBAG DISCHARGE AND MAY CAUSE SERIOUS INJURY OR DEATH.*

CRUISE ECM HARNESS

1. LOCATE CONNECTOR **A50** ON THE ECM AT DRIVER SIDE IN THE ENGINE COMPARTMENT. RELEASE CONNECTOR FROM THE ECM AND REMOVE THE PLASTIC COVER. **FIGURE 11**.

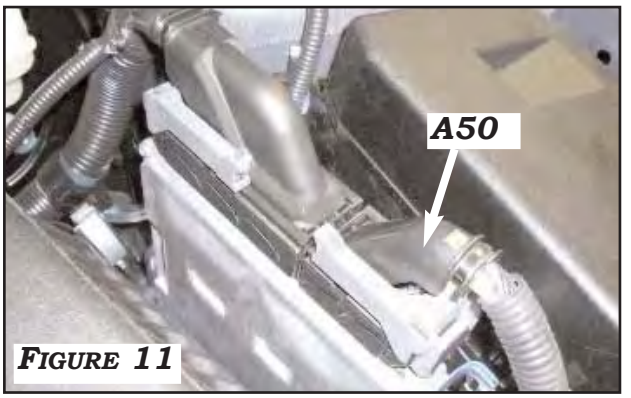


FIGURE 11

2. LOCATE PIN **40**, IN WHICH IF PRE-WIRED WOULD BE A **BLUE/BLACK WIRE**. IF WIRE IS PRESENT, CHECK CRUISE SWITCH OPERATION. IF WIRE IS NOT PRESENT, REMOVE THE RUBBER SEAL IN PIN **40,** WHICH IS BELOW THE YELLOW WIRE AS SHOWN IN **FIGURE 12. BE SURE TO SLIDE OUT THE WHITE TERMINAL RETAINER AT THE CENTER OF CONNECTOR WITH A SMALL POINTED TOOL** AS SHOWN IN **FIGURES 13-14.**

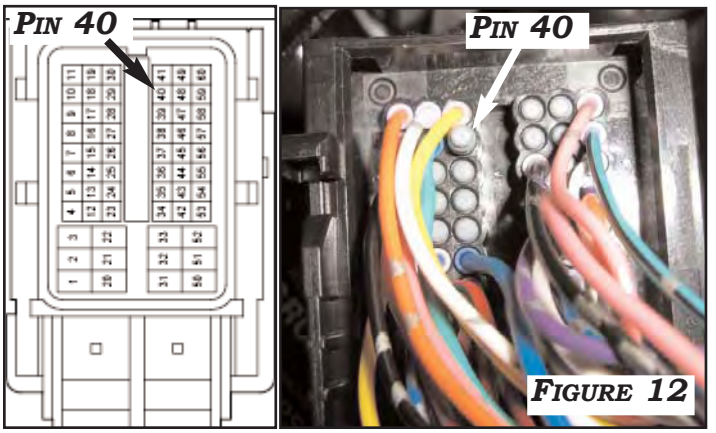


FIGURE 12


FIGURE 13

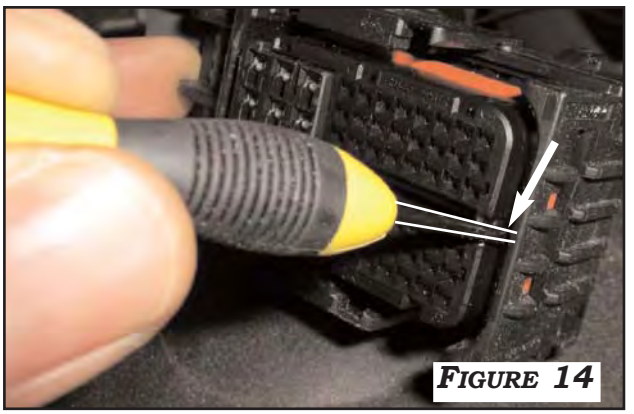


FIGURE 14

INSTALLATION

CRUISE ECM HARNESS- AT ECM

1. NOTE THE DIFFERENCE BETWEEN THE ECM TERMINAL WITH THE VIOLET SEAL AND THE CLOCKSPRING TERMINAL WITH NO SEAL AS SHOWN IN FIGURE 15.

2. INSERT THE **ECM** TERMINAL FROM THE **WHITE** CRUISE ECM HARNESS TO PIN **40** OF CONNECTOR **A50** CAREFULLY SEATING TERMINAL INTO PLACE. USE A SMALL POINTED TOOL TO PUSH THE TERMINAL INTO THE SOCKET. BE SURE NOT TO TEAR THE RUBBER SEAL. SLIDE THE WHITE TERMINAL RETAINER BACK INTO LOCKING POSITION, AND PULL THE WHITE WIRE GENTLY TO CHECK WHETHER IT IS LOCKED IN CORRECTLY. **NOTE: IF THE TERMINAL LOCKING CLIP DOES NOT LOCK FIRMLY, THE WHITE TERMINAL RETAINER CAN NOT SLIDE BACK INTO POSITION AND THE TERMINAL WIRE WILL BACK OUT OF THE CONNECTOR.** PRESS RUBBER SEAL ON HARNESS INTO CONNECTOR HOUSING. **FIGURES 16-17**

3. REASSEMBLE CONNECTOR **A50** AND PLACE BACK ONTO ECM. CUT THE NIPPLE OFF OF THE GROMMET SHOWN IN **FIGURE 18**. ROUTE THE CRUISE ECM HARNESS ALONG THE FACTORY HARNESS AND THROUGH THE GROMMET AS SHOWN IN **FIGURE 19-21.** SEAL THE GROMMET WITH SILICONE SEALANT.

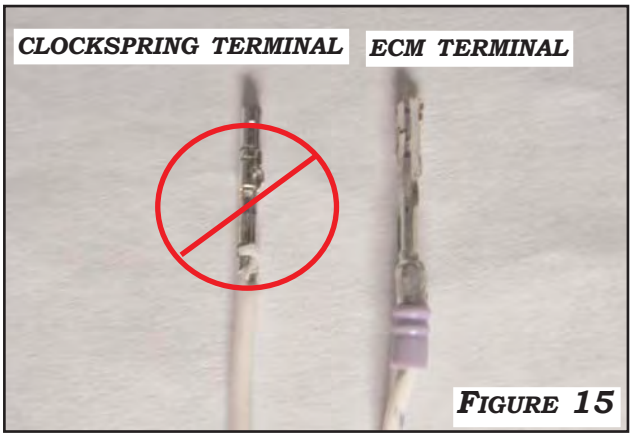


FIGURE 15

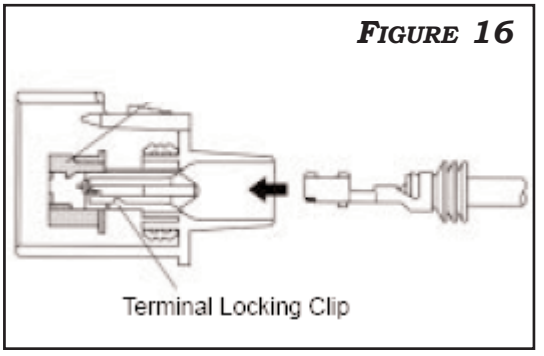


FIGURE 16

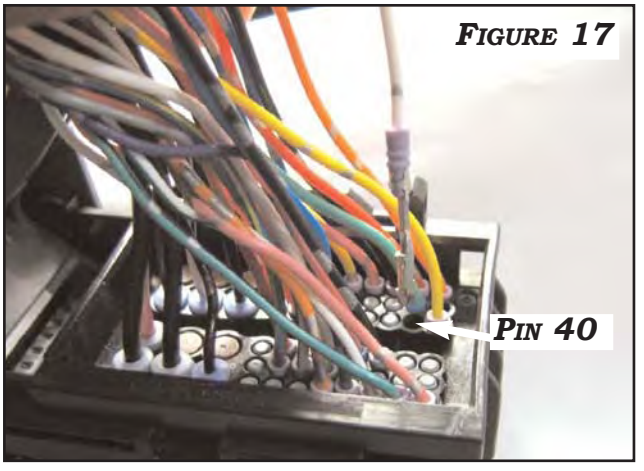


FIGURE 17

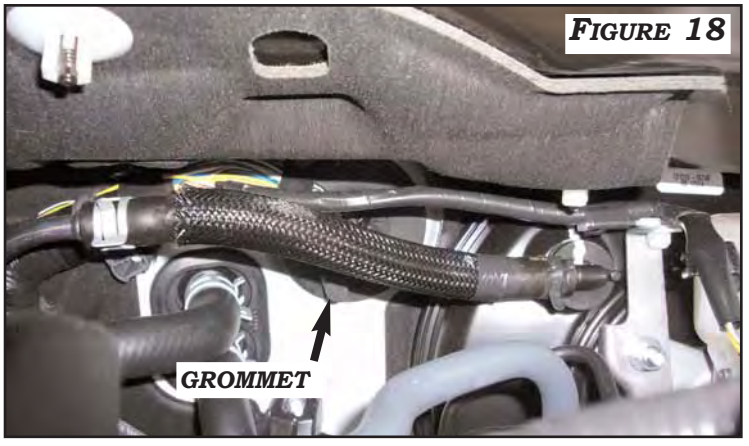


FIGURE 18

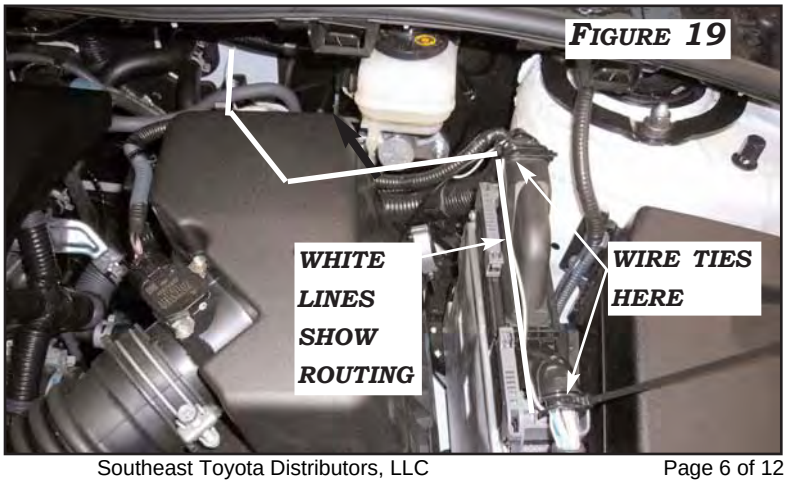


FIGURE 19

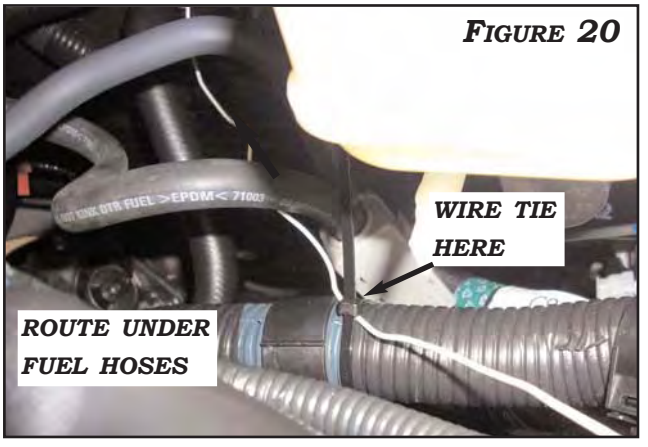


FIGURE 20

INSTALLATION

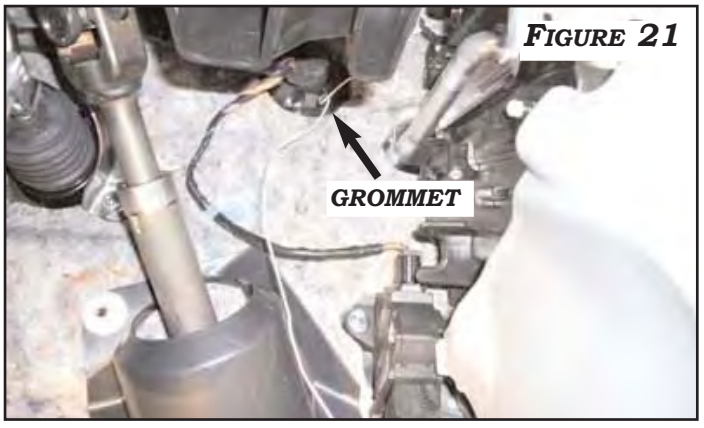


FIGURE 21

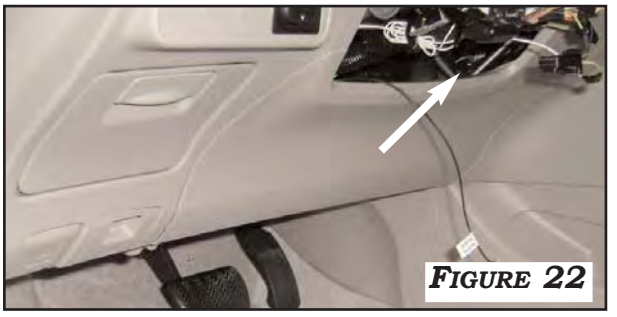
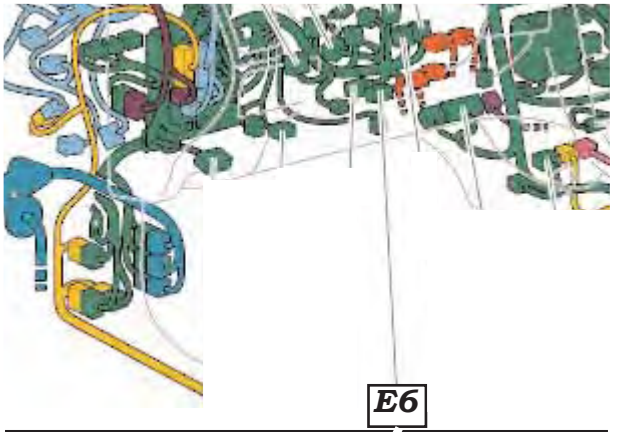


FIGURE 22

CRUISE ECM HARNESS- AT CLOCKSPRING



1. REMOVE LOWER STEERING WHEEL SHROUD. **FIGURE 22**

2. LOCATE CONNECTOR **E6** BEHIND STEERING WHEEL AT RIGHT SIDE OF SUB ASSEMBLY SHOWN IN **FIGURE 23.** REMOVE CONNECTOR. BE SURE TO PULL OUT TERMINAL RETAINER AT THE CENTER OF CONNECTOR SHOWN IN **FIGURE 24.** IF PRESENT, REMOVE THE **YELLOW** WIRE AND TERMINAL IN **PIN 1** OF CONNECTOR **E6**. **FIGURE 25**. FOLD AND SECURE THE YELLOW WIRE WITH ELECTRICAL TAPE. INSERT THE **CLOCKSPRING** TERMINAL FROM THE **WHITE** CRUISE ECM HARNESS TO PIN **1** OF CONNECTOR **E6** CAREFULLY LOCKING TERMINAL INTO PLACE. PULL THE TERMINAL BACK GENTLY TO CHECK WHETHER IT IS LOCKED CORRECTLY. **FIGURE 26**.

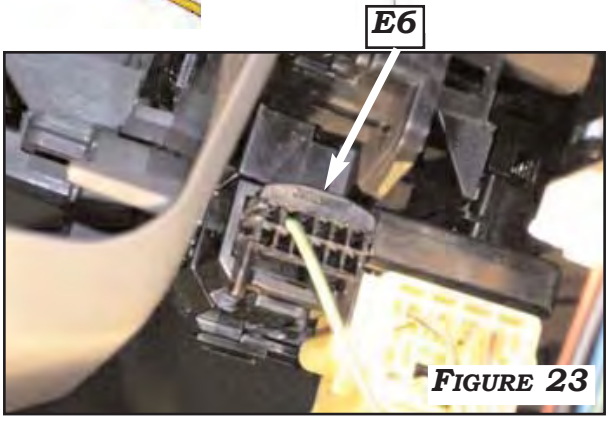


FIGURE 23

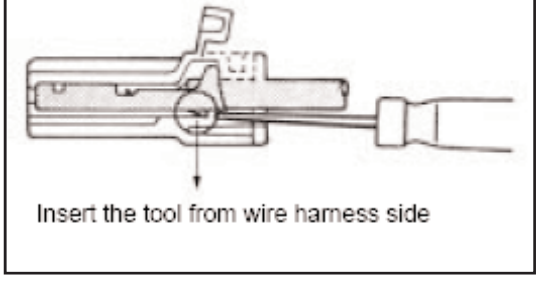


FIGURE 25

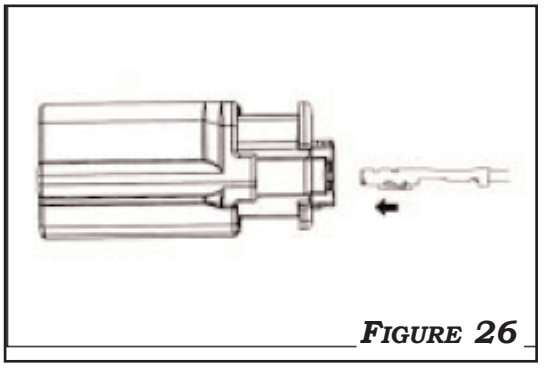


FIGURE 26

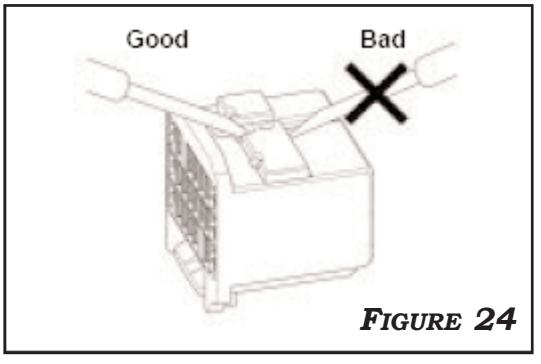
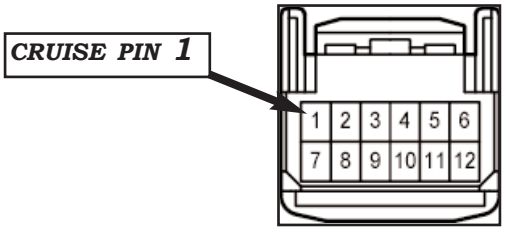


FIGURE 24



INSTALLATION

CRUISE GROUND HARNESS

1. If a **Brown** ground wire is present in pin **2** of connector **E6**, reassemble connector and skip ahead to Function Check. **Be sure retainer is pressed in before re-installing.**

2. Insert the **Clockspring** terminal from **black** Cruise Ground Harness into pin **2** of connector **E6** carefully locking terminal into place. Pull the terminal back gently to check whether it is locked correctly. **Figure 27.** Reassemble connector and place back onto sub assembly. **Be sure retainer is pressed in before reinstalling.**

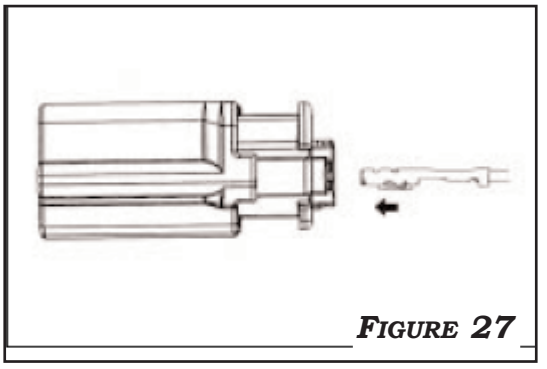
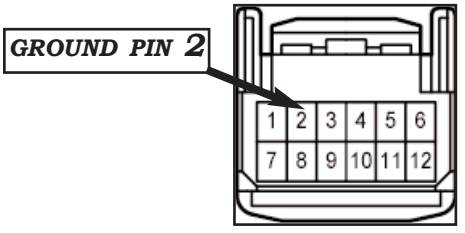


Figure 27



3. Remove the driver side lower dash knee panel. Route the ground harness along the factory harness to the 10mm bolt as shown in **Figure 28.** Remove the 10mm bolt and install the ring terminal from the **black** Cruise ground harness. **Secure the harness with wire ties as shown.**

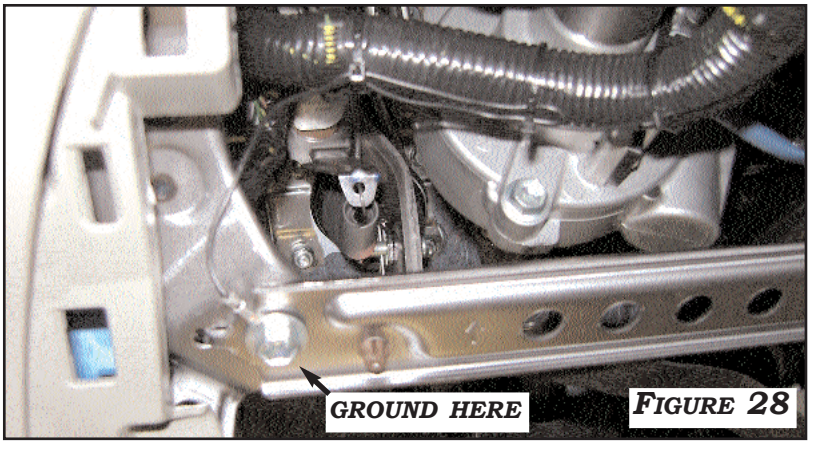


Figure 28

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.

FUNCTION CHECK

Cruise Control Operation

The cruise control allows you to cruise the vehicle at a desired speed over 40 km/h (25 mph) even with your foot off the accelerator pedal.

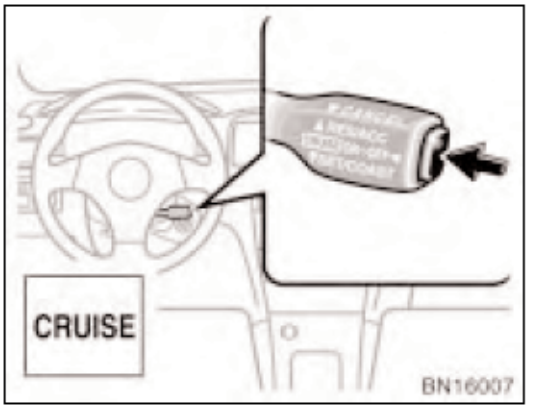
Your cruising speed can be maintained up or down grades within the limits of engine performance, although a slight speed change may occur when driving up or down the grades. On steeper hills, a greater speed change will occur so it is better to drive without the cruise control.

⚠ CAUTION

- To help maintain maximum control of your vehicle, do not use the cruise control when driving in heavy or varying traffic, or on slippery (rainy, icy or snow–covered) or winding roads.
- Avoid vehicle speed increases when driving downhill. If the vehicle speed is too fast in relation to the cruise control set speed, cancel the cruise control then downshift the transmission to use engine braking to slow down.

TURNING THE SYSTEM ON

To operate the cruise control, press the "CRUISE ON–OFF" button. This turns the system on. The indicator light in the instrument panel shows that you can now set the vehicle at a desired cruising speed. Another press will turn the system completely off.



⚠ CAUTION

To avoid accidental cruise control engagement, keep the "CRUISE ON–OFF" switch off when not using the cruise control.

SETTING AT A DESIRED SPEED

On vehicles with automatic transmission, the transmission must be in "D" before you set the cruise control speed.

Bring your vehicle to the desired speed, push the lever down in the "SET/COAST" direction and release it. This sets the vehicle at that speed. If the speed is not satisfactory, tap the lever up for a faster speed, or tap it down for a slower speed. Each tap changes the set speed by 1.6 km/h (1.0 mph). You can now take your foot off the accelerator pedal.

If you need acceleration—for example, when passing—depress the accelerator pedal enough for the vehicle to exceed the set speed. When you release it, the vehicle will return to the speed set prior to the acceleration.

CANCELLING THE PRESET SPEED

You can cancel the preset speed by:

a. Pulling the lever in the "CANCEL" direction and releasing it.
b. Depressing the brake pedal.
c. Depressing the clutch pedal (manual transmission).

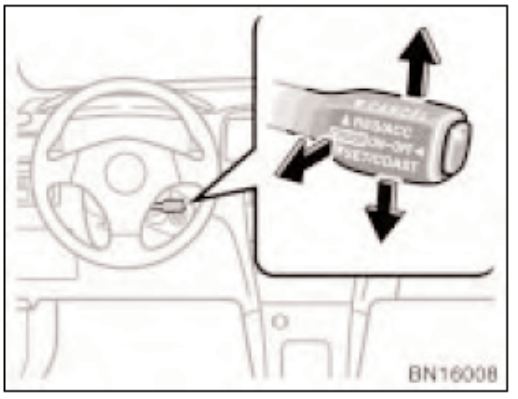
If the vehicle speed falls below about 40 km/h (25 mph), the preset speed will automatically cancel out.

If the vehicle speed drops 16 km/h (10 mph) below the preset speed, the preset speed will also automatically cancel out. If the preset speed automatically cancels out other than for the above cases, have your vehicle checked by your Toyota dealer at the earliest opportunity.

RESETTING TO A FASTER SPEED

Push the lever up in the "RES/ACC" direction and hold it. Release the lever when the desired speed is attained. While the lever is held up, the vehicle will gradually gain speed.

However, a faster way to reset is to accelerate the vehicle and then push the lever down in the "SET/COAST" direction.



⚠ CAUTION

For manual transmission:

While driving with the cruise control on, do not shift to neutral without depressing the clutch pedal, as this may cause engine racing or overrevving.

RESETTING TO A SLOWER SPEED

Push the lever down in the "SET/COAST" direction and hold it. Release the lever when the desired speed is attained. While the lever is held down, the vehicle speed will gradually decrease.

However, a faster way to reset is to depress the brake pedal and then push the lever down in the "SET/COAST" direction.

On vehicles with automatic transmission, even if you turn off the overdrive switch, with the cruise control on, engine braking will not be applied because the cruise control is not cancelled. To decrease the vehicle speed, reset to a slower speed with the cruise control lever or depress the brake pedal. If you use the brake pedal, cruise control is cancelled.

RESUMING THE PRESET SPEED

If the preset speed is cancelled by pulling the control lever or by depressing the brake pedal or clutch pedal, pushing the lever up in the "RES/ACC" direction will restore the speed set prior to cancellation.

However, once the vehicle speed falls below about 40 km/h (25 mph), the preset speed will not be resumed.

CRUISE CONTROL FAILURE WARNING

If the "CRUISE" indicator light in the instrument cluster flashes when using the cruise control, press the "CRUISE ON–OFF" button to turn the system off and then press it again to turn it on.

If any of the following conditions then occurs, there is some trouble in the cruise control system.

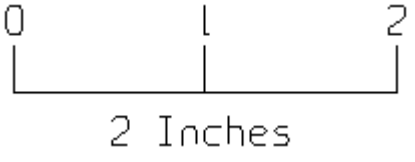
- The indicator light does not come on.
- The indicator light flashes again.
- The indicator light goes out after it comes on.

REASSEMBLY

1. Reconnect Negative Battery Cable and torque to 3 ft lbs.

2. Reinstall all trim pieces taking special care to ensure harnesses and wire connections are properly secured.

3. Be sure harnesses is not pinched or bound by trim pieces.



SHROUD TEMPLATE