**Base Kit Contents**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Control Switch Assembly</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Screws (M5)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Hardware Contents</td>
</tr>
</tbody>
</table>

**Hardware Bag Contents**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Cruise ECM Harness, Brown</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Cruise ECM Harness, Green</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Cruise ECM Harness, Blue</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Cruise Ground Harness, Black</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>Wire Ties</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Foam Tape</td>
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</table>

**Additional Items Required for Install**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012- Tacoma Shroud 45186-04030-B0</td>
<td>(Part No. For Toyota Cruise Switch Shroud)</td>
<td></td>
</tr>
</tbody>
</table>

**Conflicts**

**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
- 1/4” and 1 1/2” Hole Saw
- 14MM Wrench

**Special Chemicals**

<table>
<thead>
<tr>
<th>SERVICE TOOL CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
</tr>
<tr>
<td>------</td>
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<tr>
<td></td>
</tr>
</tbody>
</table>

**General Applicability**

- All Tacoma models

**Service Parts**

<table>
<thead>
<tr>
<th>Item</th>
<th>Part#</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>250-2735</td>
<td>Cruise ECM Harnesses for non-prewired</td>
</tr>
<tr>
<td>2</td>
<td>250-4206</td>
<td>Clutch Switch</td>
</tr>
<tr>
<td>3</td>
<td>250-4380</td>
<td>Clutch Switch and Clutch ECM harness</td>
</tr>
</tbody>
</table>

**Legend**

- **STOP:** Damage to vehicle may occur. Do Not Proceed until process compliance has been met.
- **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 the process.
- **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.
- **VEHICLE PROTECTION:** This calls out for protection of vehicle required for this process.

**Special Note: Installation Sequences**

After 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.
VEHICLE PREPARATION:

1. **Disconnect the cable from the negative terminal of the battery.** Figure 1

   ![Figure 1](image1)

   **CAUTION:** Ensure that battery has been disconnected for more than 90 seconds prior to removal of airbag; Failure to heed 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 2.**

   ![Figure 2](image2)

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 3.**

   ![Figure 3](image3)

   **CAUTION:** Be sure to store airbag face up as illustrated in Figure 4 to reduce injury in event of accidental discharge of airbag.

   ![Figure 4](image4)
VEHICLE PREPARATION CONTINUED...

NOTE: 2012 TO CURRENT MODELS WILL NOT REQUIRE WIRING FOR CRUISE LIGHT FROM COMBINATION METER TO ECM (ONLY USE STEP 7 & 9)

4. Release the 2 clips and remove the driver side kick panel. **Figure 5**

5. Release the 3 clips and remove the lower instrument panel finish panel. **Figure 6**

6. Remove 2 phillips screws to release the steering column shroud. **Figure 7**

7. Remove the 2 clips. Release the 6 clips and remove the instrument cluster finish panel subassembly. **Figure 8**

8. Release the claw and separate the glove compartment door stopper from the glove compartment door assembly. Pull the glove compartment door assembly toward the rear of the vehicle to release the 3 hinges and remove the glove compartment door assembly. **Figure 9**
CONTROL SWITCH

1. Use the **Switch Hole Cutting Template** on page 10 to place the template on the inside of the right side trim panel. Cut out a **1/4”** pilot hole as shown in **Figure 10**. Use a **1 1/2”** hole saw to drill the hole location on the trim panel. **Figure 12.** For 2012 to current **Tacoma vehicles**, it is advised to order part number **45186-04030-BO Cruise Switch Shroud** from Toyota Dealership to replace existing shroud.

2. Place the trim panel on a drilling surface as shown in **Figure 11**. Install the top plate onto the fixture. Use a **1 1/2”** hole saw to cut out the hole location on the trim panel. **Figures 12 & 13**
3. Mount Cruise Control switch with two (2) Phillips screws provided. Remove ground terminal and dummy horn/cruise connector from steering wheel and discard. Plug in cruise switch connector ensuring to re-connect ground terminal. Figures 14-15

CRUISE ECM AND GROUND HARNESS

1. Locate black connector S8 behind steering wheel at right side of sub assembly. Figure 16. Remove connector. Be sure to push out terminal retainer at the center of connector. Figure 17. Insert the Clock-spring terminal from the Brown Cruise ECM Harness to Pin 1 (cruise circuit) of connector S8 carefully locking terminal into place. Figure 18. Pull the terminal back gently to check whether it is locked correctly.

2. Insert the Clockspring terminal from the Black Cruise Ground Harness into pin 2 of connector S8 carefully locking terminal into place. Pull the terminal back gently to check whether it is locked correctly. Figures 18. Reassemble connector and place back onto sub assembly. Be sure retainer is pressed in before reinstalling.

3. Route the ground harness along the factory harness to a 10mm bolt on the vehicle frame. Remove the 10mm bolt and install the ring terminal from the Black Cruise ground harness. Secure the harness with wire ties.

4. Route the brown cruise ecm harness to the ECM behind glove box area with the existing vehicle wiring harness.
1. **For Manual Transmission**: Record the stop bolt position on the clutch pedal. Use a 14mm wrench to remove. Replace Clutch Pedal Stop Bolt with Rostra Clutch Disengagement Switch. Attach Clutch harness to Clutch disengagement Switch. Figures 19-21

2. **For Manual Transmission**: Locate Connector 1C at the junction box. Figure 22. Attach Red T-Tap to the Lt. Green wire in Pin 14 of connector 1C. Figure 23. Connect Male Terminals to Violet Wires of Clutch Harness and make one connection with the T-Tap previously installed. Connect the other Violet wire to the Blue Cruise ECM Harness. Route the Cruise ECM Harness to the ECM behind the glove box area.

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**NOTE**

For Manual Transmission Tacoma, use Rostra Clutch Disengagement Switch and Clutch Harness Kit 250-4206 is required.

Remove (3) 10mm screws to release junction box to ease installation of the clutch switch.
1. **LOCATE BLACK CONNECTOR E22 (2TR-FE 4 CYL ENGINE) OR BLACK CONNECTOR E14 (1GR-FE V6 ENGINE) AT SECOND FROM BOTTOM OF THE ECM.** **FIGURE 24.** **BE SURE TO PULL OUT TERMINAL RETAINER AT THE CENTER OF CONNECTOR.** **FIGURE 25.** **INSERT ECM TERMINAL FROM BROWN WIRE (59B-05877) OF THE CRUISE ECM HARNESS INTO PIN 14 (CRUISE CIRCUIT) OF CONNECTOR E22 OR INTO PIN 11 OF CONNECTOR E14.** **INSERT THE ECM TERMINAL FROM THE BLUE WIRE OF THE CRUISE ECM HARNESS INTO PIN 9 (CLUTCH SWITCH CIRCUIT) OF CONNECTOR E22 OR INTO PIN 27 OF CONNECTOR E14. **FIGURES 26-27

2. **CAREFULLY LOCK THE TERMINALS INTO PLACE. PULL THE TERMINALS BACK GENTLY TO CHECK WHETHER IT IS LOCKED CORRECTLY. REASSEMBLE CONNECTOR AND PLACE BACK ONTO ECM.** **BE SURE RETAINER IS PRESSED IN BEFORE REINSTALLING.** **SECURE HARNESS WITH WIRE TIES.**

3. **CONTINUE TO TESTING SECTION.**
NOTE: 2012 TO CURRENT MODELS WILL NOT REQUIRE WIRING FOR CRUISE LIGHT FROM COMBINATION METER TO ECM (CONTINUE TO NEXT PAGES)

1. Locate white connector C9 at the combination meter. Figure 28. Remove connector. Be sure to pull out terminal retainer at the center of connector. Figure 29.

2. Insert the Combination Meter terminal from the Green Cruise ECM Harness into pin 24 (cruise indicator light circuit) of connector C9 carefully locking terminal into place. Pull the terminal back gently to check whether it is locked correctly. Figure 30-31. Reassemble connector and place back onto combination meter. Be sure retainer is pressed in before reinstalling.

3. Route the green cruise ECM harness to the ECM behind glove box area with the existing vehicle wiring harness as shown in Figure 32. Secure the harnesses with wire ties.
09-12 CRUISE ECM HARNESSES

NOTE: 2012 MODELS WILL NOT REQUIRE WIRING FOR CRUISE LIGHT FROM COMBINATION METER TO ECM

1. Locate white connector E7 (2TR-FE 4 CYL Engine) or black connector E14 (1GR-FE V6 Engine) at second from bottom of the ECM. Figure 33. Be sure to pull out terminal retainer at the center of connector. Figure 34. Insert ECM terminal from Brown Wire (59B-05877) of the Cruise ECM Harness into pin 31 (cruise circuit) of connector E7 or into pin 11 of connector E14. Insert the ECM terminal from the Green Wire of the Cruise ECM Harness into pin 18 (cruise indicator light circuit) of connector E7 or into pin 15 of connector E14. Insert the ECM terminal from the Blue Wire of the Cruise ECM Harness into pin 21 (clutch switch circuit) of connector E7 or into pin 27 of connector E14. Figures 35-36

2. Carefully lock the terminals into place. Pull the terminals back gently to check whether it is locked correctly. Reassemble connector and place back onto ECM. Be sure retainer is pressed in before reinstalling. Secure harness with wire ties.
TESTING

1. Reinstall Airbag. Torque screws to 78in*lbs.

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

3. 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.

REASSEMBLY

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

2. Be sure harnesses are not pinched or bound by trim pieces.
1. Locate connector S8 of clockspring below right hand side steering column. Refer to Figure 38

2. With ignition switch on, place positive lead of meter on **pin 1** (DC).

3. Place common lead on **pin 2** (Ground). Confirm readings are as follows:
   a. Key on: 12 volts.
   b. Key on, press cruise switch ‘On’ and hold: 0 volts.
   c. Key on, press cruise switch ‘Set’ and hold: 6 volts.
   d. Key on, press cruise switch ‘Resume’ and hold: 3 volts.

4. If the voltages are different replace control switch.

5. If there is not 12 volts on **pin 1**, then do a continuity test from the control switch (behind air bag) to the computer.

6. If no continuity, then check pin insertions at control switch, clockspring and computer.

7. If continuity is good, then verify pin positions at clockspring and computer.

8. If all positions check OK and continuity is good, then there is a computer problem. Consult a Toyota dealer.