### Kit Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Cruise Control Switch/Harness</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ECM Harness</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Hardware Package</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Clockspring Harness</td>
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### Service Parts

<table>
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<tbody>
<tr>
<td>1</td>
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<td>Control Switch</td>
<td>250-2716</td>
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<tr>
<td>2</td>
<td>1</td>
<td>Clockspring/ECM Harness</td>
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<td>3</td>
<td>1</td>
<td>Hardware Package</td>
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### Hardware Package Contents

<table>
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<tr>
<td>1</td>
<td>2</td>
<td>#10 Screws, T-25</td>
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<tr>
<td>2</td>
<td>3</td>
<td>Posi-Tap Connectors</td>
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</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Convoluted tubing, 36 inches</td>
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<td>4</td>
<td>5</td>
<td>Cable Ties</td>
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<tr>
<td>5</td>
<td>3</td>
<td>#6 Screws, T-15</td>
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### Additional Items Required for Install

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>1</td>
<td>N/A</td>
<td>Electrical Tape</td>
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### Color Applicability/Trim Level

#### Vehicle Trim Color

<table>
<thead>
<tr>
<th>Accessory Color</th>
<th>VEHICLE TRIM COLOR</th>
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</thead>
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</table>

### General Applicability

**All Models**

### Recommended Sequence Of Application

- **Vehicle Preparation** ... Page 2
- **ECM harness connections** ... page 3
- **Control Switch** ... page 4
- **Reassembly and Vehicle Test** ... page 5

### 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.

### Recommended Tools

#### Safety Tools

- Wire Cutters

#### Special Tools

- Phillips Screwdriver

#### Installation Tools

- Fastener Removal Tool: Wire Cutters
- Trim Removal Tool: Phillips Screwdriver
- 10-MM Deep Socket: Pliers
- T15 Driver: T25-Driver

#### Special Chemicals

- N/A Electrical Tape: 250-2716

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**Form #5071, Rev. H, 04-07-11**
1. **Remove the negative battery cable before installing the cruise control components for safety precautions. Figure 1.**

2. **Jeep Wrangler applications:** Remove airbag by using trim tool to release (3) metal clips as shown in Figure 2.

![Release Metal Clips](image1)

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**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.

3. **Dodge Caliber, Jeep Compass/Patriot applications:** Remove airbag by extracting the (2) 10mm screws as illustrated in Figure 2A.

![Remove (2) 10mm Head Screws](image2)

4. Press in sides of both connectors to remove airbag as illustrated in Figure 3.

![Remove (2) Air-Bag Connectors](image3)

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

5. **Jeep Wrangler applications:** Remove 13mm center bolt to take off steering wheel, then skip to Step 2 on page 4.

6. **Dodge Caliber, Jeep Compass/Patriot applications:** Remove (3) Torx 25 screws to release center bracket inside steering wheel. Figure 4

![Remove (3) Torx 25 Screws](image4)

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**Store Airbag Face Up As Illustrated Below**

![Store Airbag Face Up As Illustrated Below](image5)

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**Figure 2**

**Figure 2A**

**Figure 3**

**Figure 3A**

**Figure 4**
(CONT.)

7. **Remove ECM connector furthest away from firewall.** **Figure 5.**

8. **Press in tab to remove top cover of connector to access pin locations.** **Figure 6.** Then release center slot clip as shown in **Figure 7.**

   **At this point, look for wires in pin locations 13, 26, and 27. If wires are present, then the installation of the ECM harness is not required. Reassemble the connector and skip to the control switch installation on page 5.**

9. **Use precision tool to break plastic insert in opening of Pin 13, 26 and 27 of connector (**Figure 8**). Then push out remains on reverse side as shown in **Figures 9-10.**

   **CAUTION: Be sure plastic insert is fully removed before inserting each pin.** **Figure 10.**
ECM HARNESS CONNECTIONS

1. **Insert Yellow Wire to Pin 13, Pink Wire to Pin 26, and Purple Wire of the Clockspring/ECM harness to Pin 27 of connector.** Figure 12. Reassemble connector. Be sure to place connector back on ECM securely. Wrap convoluted tubing around wires of harness.

2. **Route the Clockspring/ECM harness from ECM through firewall to inside of vehicle. Remove lower steering shroud. Locate right connector at back side of clock spring.** Figure 13. If positions 6, 5, and 4 are blank, use Clockspring/ECM harness in kit. Insert Violet Wire into Pin 6. Insert Yellow Wire to Pin 5. Insert Pink Wire to Pin 4. Figure 13A. If OEM wires are present in the back side of clock spring connector, cut pins off of the Clockspring/ECM harness and use supplied POSI-TAP connectors to connect to existing wires.

**CAUTION:** Be sure to use the correct terminal at the ECM and Clockspring as shown in Figure 11. Note: The Clockspring terminal is the bigger of the two. If Clockspring/ECM harness is two separate pieces, mate harnesses color to color.
CONTROL SWITCH

1. Turn steering wheel to left position to drill 1 1/8” hole in center of existing outline for switch location. Figure 14. Cut out remaining ribs inside steering wheel as shown in Figure 15.

2. Jeep Wrangler applications: Use Dremel or other cutting tool to trim out right section of steering wheel as shown in Figure 16.

3. Dodge Caliber, Jeep Compass/Patriot applications: Use Dremel or de-burring tool to trim to fit cruise control switch. Figure 17.
CONTROL SWITCH (CONT.)

4. **Jeep Wrangler** applications: Use (3) #6, T15 screws provided in hardware bag to mount cruise control switch. **Figure 18 & 19**

5. **Dodge Caliber, Jeep Compass/Patriot** applications: Use (2) #10, T25 screws provided in hardware bag to mount cruise control switch. **Figure 20**

6. **For switch with harness connector:** Remove factory 6-pin connector of vehicle and extract Pins 2 and 3 (Horn). **Figure 21**. Replace factory connector with Rostra switch connector. Connect remaining two wires from Rostra switch connector to wires that were extracted from factory connector.

**For switch with harness terminals:** Locate white 6 pin connector inside steering wheel. Insert Cruise Control Harness wires to the following pin locations in back-side of connector:

- **Pink Wire** to Pin 4
- **Yellow Wire** to Pin 5
- **Violet Wire** to Pin 6

Connect black 3 pin connector of Cruise Control Harness to Cruise Control Switch. **Figure 22**

7. Reinstall center bracket inside steering wheel, or complete steering wheel if applicable.
REASSEMBLY

1. Reinstall Airbag.

2. Reconnect negative battery cable and torque nut to 35 ft\(^*\)lbs.

TESTING

While driving vehicle, press [On/Off] button on cruise switch to engage cruise control. With vehicle above minimum set speed (refer to owner’s manual), verify the following:

1. Pressing [Set] on cruise switch causes cruise to control vehicle at desired speed.

2. Pressing vehicle’s Brake pedal or shifting into Neutral returns control of vehicle speed to driver.

3. Pressing [Resume] on cruise switch causes cruise to return vehicle to desired speed.

4. Pressing [Cancel] on cruise switch returns control of vehicle speed to driver. Pressing [Resume] on cruise switch causes cruise to return vehicle to desired speed.

5. Pressing [On/Off] turns off cruise and returns control of vehicle speed to driver. Previously Set speed is removed from cruise’s memory.
2. Check Continuity from ECM to connector at steering wheel. If no continuity, check connections under steering column at back of of clockspring. Then check continuity from clockspring connector to steering wheel connector.

1. Check voltages on the Pink wire in the ECM at position 26 for 5 volts. The Violet wire at position 27 should read 5 volts. The Yellow wire at position 13 should have a ground no higher than 3 ohms of resistance.

3. Check control switch voltage. Locate 6-pin connector at steering wheel and measure voltage across the following wires listed below:

Violet Wire Pin 6 to Vt/Brn (Yellow) wire Pin 5

- Press Set = 3.35 volts
- Press Resume = 4.0 volts
- Press On/Off = 0.90 volts
- Press Cancel = 1.80 volts

VT/Orn (Pink) Wire Pin 4 to Vt/Brn (Yellow) wire Pin 5

- Press Set = 1.35 volts
- Press Resume = 2.25 volts
- Press On/Off = 3.75 volts
- Cancel = 3.0 volts

4. Check control switch. Unplug connector at the steering wheel and measure resistance across the following wires listed below:

- **Pink-Purple**
  - ON/OFF: 6.6 Ohms
  - SET: 5.13 Ohms
  - RESUME: 10.50 Ohms
  - CANCEL: 4.46 Ohms

- **Pink-Yellow**
  - ON/OFF: 6.2 Ohms
  - SET: 0.79 Ohms
  - RESUME: 1.7 Ohms
  - CANCEL: 3.2 Ohms

- **Purple-Yellow**
  - ON/OFF: 0.46 Ohms
  - SET: 4.35 Ohms
  - RESUME: 8.80 Ohms
  - CANCEL: 1.16 Ohms