250-9005
07-10 KIA SORENTO/RONDO 2.7L, 3.3L
Cruise Control Installation Instructions

Service Part Numbers

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A. Installation Preparation:

1. Disconnect Negative Battery Cable Before Installation. Remove (4) Phillips screws to release outer and lower dash panel. **Figure 1.** Remove steering shroud cover.

2. Sorento: Remove air duct on passenger side of engine compartment to access ECM. Remove back side ECM connector closest to firewall of vehicle. **Figure 2.** Release cover on connector to access wiring.

3. Rondo: Remove the left side PCM connector on driver side of the engine compartment.

B. Harness Installation:

1. Locate Green or White/orange Wire in Pin 25 of ECM connector. Using red in-line connector in hardware kit, connect the **Green Wire** from the ECM Harness to the **Green or White/orange Wire** in Pin 25. Locate Green or Blue/orange Wire in Pin 69 of ECM connector. Using red in-line connector in hardware kit, connect the **Black Wire** from the ECM Harness to the **Green or Blue/orange Wire** in Pin 69. **Figure 3.** Reassemble connector. Be sure to place connector back on ECM securely.

2. If wires are not present, Carefully Remove retainer as shown in **Figure 4.**
B. Harness Installation (cont):

3. Locate Pin 25 in ECM. Remove plastic insert. Figure 5. Insert Green Wire of ECM Harness to Pin 25 of ECM connector. Figure 6. Locate Pin 69 in ECM. Remove plastic insert. Figure 5. Insert Black Wire of ECM Harness to Pin 69 of ECM connector. Figure 6. Make sure both pin locks into place. Replace retainer back into connector. Reassemble connector and plug back into ECM.

4. Route wires through access grommet on driver side firewall as shown in Figure 7.

5. Connect Green Wire with male spade terminal from ECM Harness to Green Wire marked Cruise 2 of the Main Cruise Harness. Connect 2-pin connector on ECM harness to 2-pin connector on Main Cruise Harness. Make sure red wires mate. Go to last page for wiring diagram.

6. Connect Red Accessory Wire and White Wire marked Cruise 1 from the Main Cruise Harness to White Wire (Sorento) or Green Wire (Rondo) in the ignition switch connector. Figure 8 or 8A.

7. Sorento: Connect Black Wire of Main Cruise Harness to Blue Ground Wire in far left bottom pin of connector at junction box behind driver-side kick panel. Figure 9.

Rondo: Connect Black Wire of Main Cruise Harness to Black Ground Wire of the diagnostics connector.
C. SWITCH INSTALLATION:

1. **Mark hole as shown in Figure 10.** Use the **Lever Wedge** as an angle template to drill 9.5mm or 3/8” hole in lower shroud. Position the lockwashers as shown in **Figure 11.** Start nut and position the lettering for driver’s best view. Fully secure nut at 2.5-2.8Nm. Do Not Overtighten.

2. **Locate one 4 pin connector and one 3 pin connector in hardware kit.** **Figure 12** Install 4 Pin connector on Red, Brown, Green, and Yellow switch wires. Insert Black Wire from switch to Pin 1 of 3-pin connector. Insert Blue Wire from switch to Pin 3 of 3-pin connector. Make sure black wire mates to black wire when connecting switch to ECM harness. Blue wire from switch harness mates to red wire on ECM harness. See last page for wiring diagram.

3. **Connect switch harness to Main Cruise Harness.** Verify that all colors match. Connect Main Cruise Harness to Cruise Control Module.
D. **Reassembly:**

1. Reinstall driver side kick panel, lower steering column cover, steel cover, and knee panel under steering column.

2. Secure all wires with wire ties.

3. Reconnect negative battery cable.

E. **Testing:**

1. Test cruise functions in accordance with operating instructions.
   *IMPORTANT: Verify cruise disengages when vehicle is put in neutral or brake is depressed.*

F. **Troubleshooting:**

1. Check black wires with meter for ground no higher than 3 ohms of resistance.

2. Check Red and White wire for ignition 12 volts.

3. With everything connected, check Brown wire voltages at the control module with engine on:
   - Off: 4.5 volts
   - On: 13.6 volts
   - On with “Set” pressed: 1.5 volts
   - On with “Resume” pressed: 2.8 volts