

**250-9005**  
**07-10 KIA SORENTO/RONDO 2.7L,3.3L**  
**CRUISE CONTROL INSTALLATION INSTRUCTIONS**

**SERVICE PART NUMBERS**

<b>ITEM</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>PART NUMBER</b>
1	1	CONTROL MODULE	250-2723
2	1	MAIN HARNESS	250-2712
3	1	ECM HARNESS	250-2724
4	1	SWITCH	250-2721
5	1	SACK PARTS	250-2722

**CONTENTS**

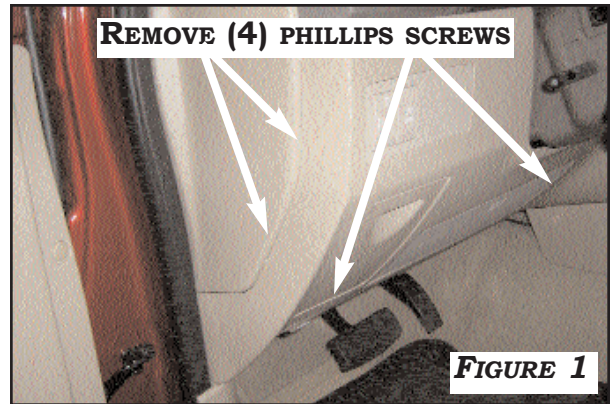
<b>INSTALLATION</b>	<b>2</b>
<b>CONTROL SWITCH</b>	<b>3</b>
<b>TROUBLESHOOTING</b>	<b>5</b>

# INSTALLATION

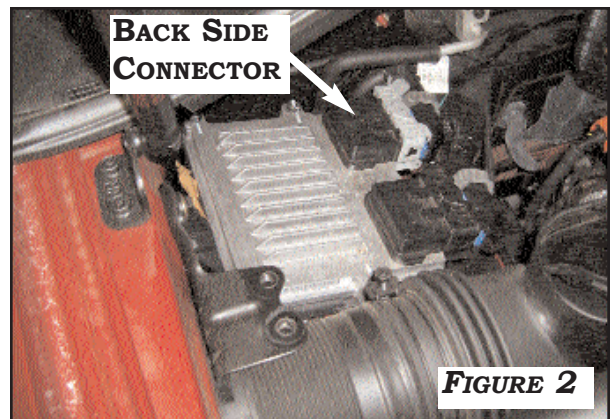
## A. INSTALLATION PREPARATION:

1. **DISCONNECT NEGATIVE BATTERY CABLE BEFORE INSTALLATION.** REMOVE (4) PHILLIPS SCREWS TO RELEASE OUTER AND LOWER DASH PANEL.

**FIGURE 1.** REMOVE STEERING SHROUD COVER.



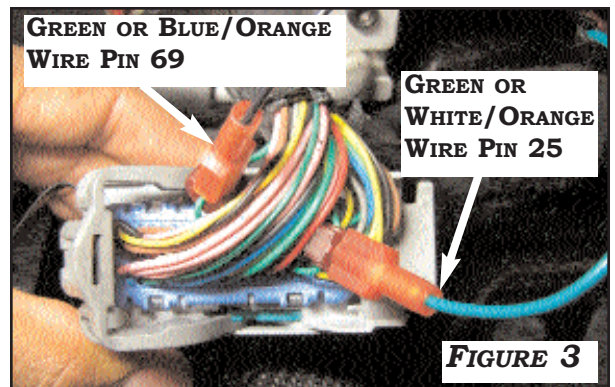
2. **SORENTO:** REMOVE AIR DUCT ON PASSENGER SIDE OF ENGINE COMPARTMENT TO ACCESS ECM. REMOVE BACK SIDE ECM CONNECTOR CLOSEST TO FIREWALL OF VEHICLE. **FIGURE 2.** RELEASE COVER ON CONNECTOR TO ACCESS WIRING.



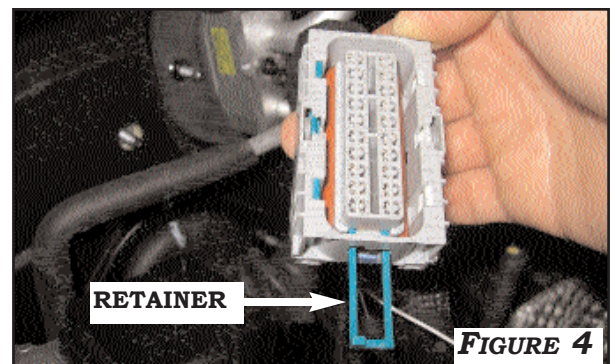
3. **RONDO:** REMOVE THE LEFT SIDE PCM CONNECTOR ON DRIVER SIDE OF THE ENGINE COMPARTMENT.

## 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**.



# INSTALLATION

## B. HARNESS INSTALLATION (CONT):

- 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.
- ROUTE WIRES THROUGH ACCESS GROMMET ON DRIVER SIDE FIREWALL AS SHOWN IN **FIGURE 7**.
- 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**.
- 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**.
- 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.

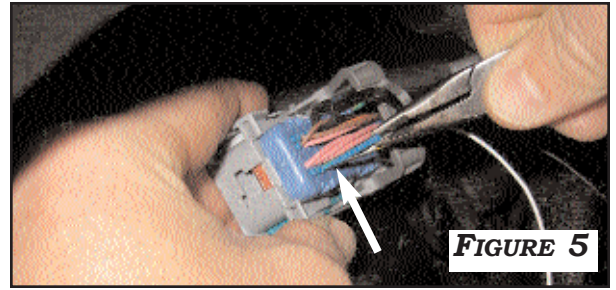


FIGURE 5

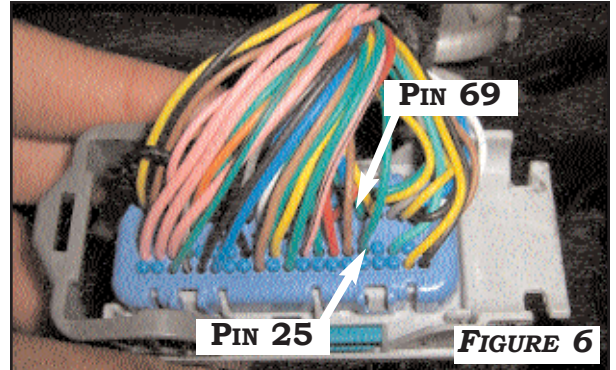


FIGURE 6

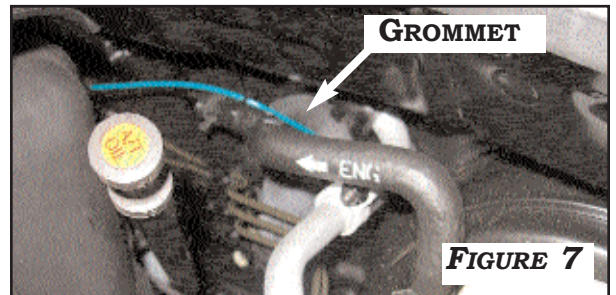


FIGURE 7

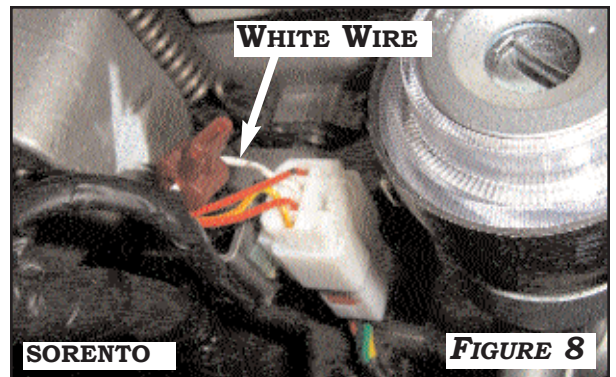


FIGURE 8

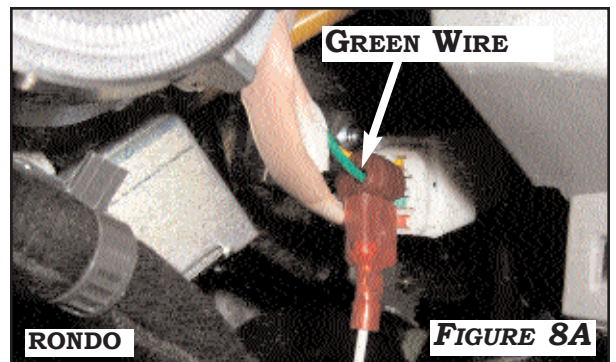
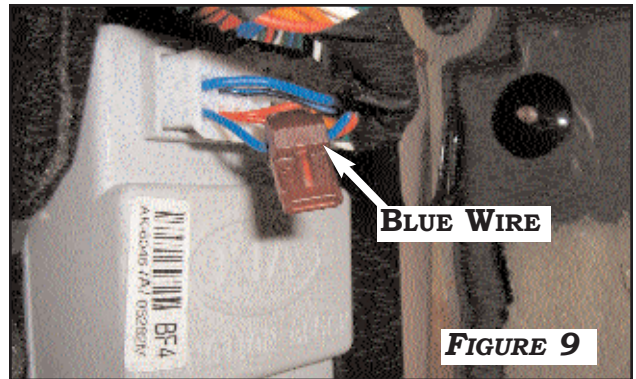


FIGURE 8A

# INSTALLATION

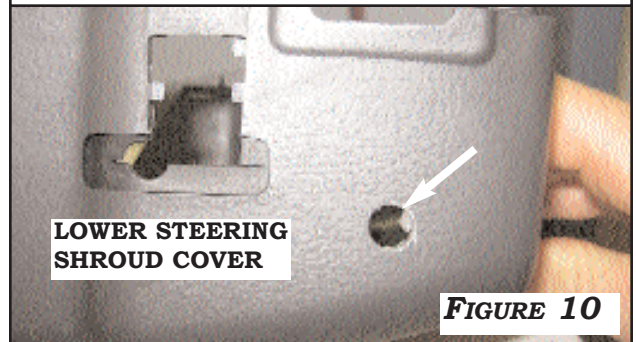
## C. SWITCH INSTALLATION:

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.

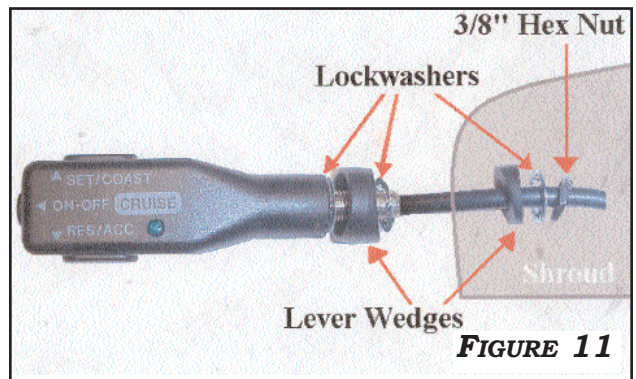


**FIGURE 9**

**DRILL 9.5MM (3/8") HOLE AT 17° ANGLE  
TOWARDS STEERING WHEEL**

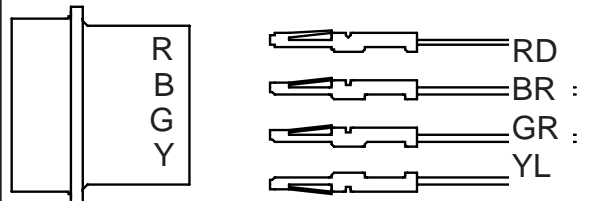


**FIGURE 10**

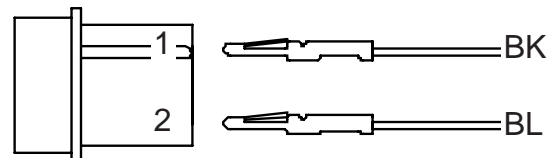


**FIGURE 11**

### 4 PIN CONNECTOR HOUSING



### 3 PIN CONNECTOR HOUSING



**FIGURE 12**

# TESTING/TROUBLESHOOTING

## 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:**

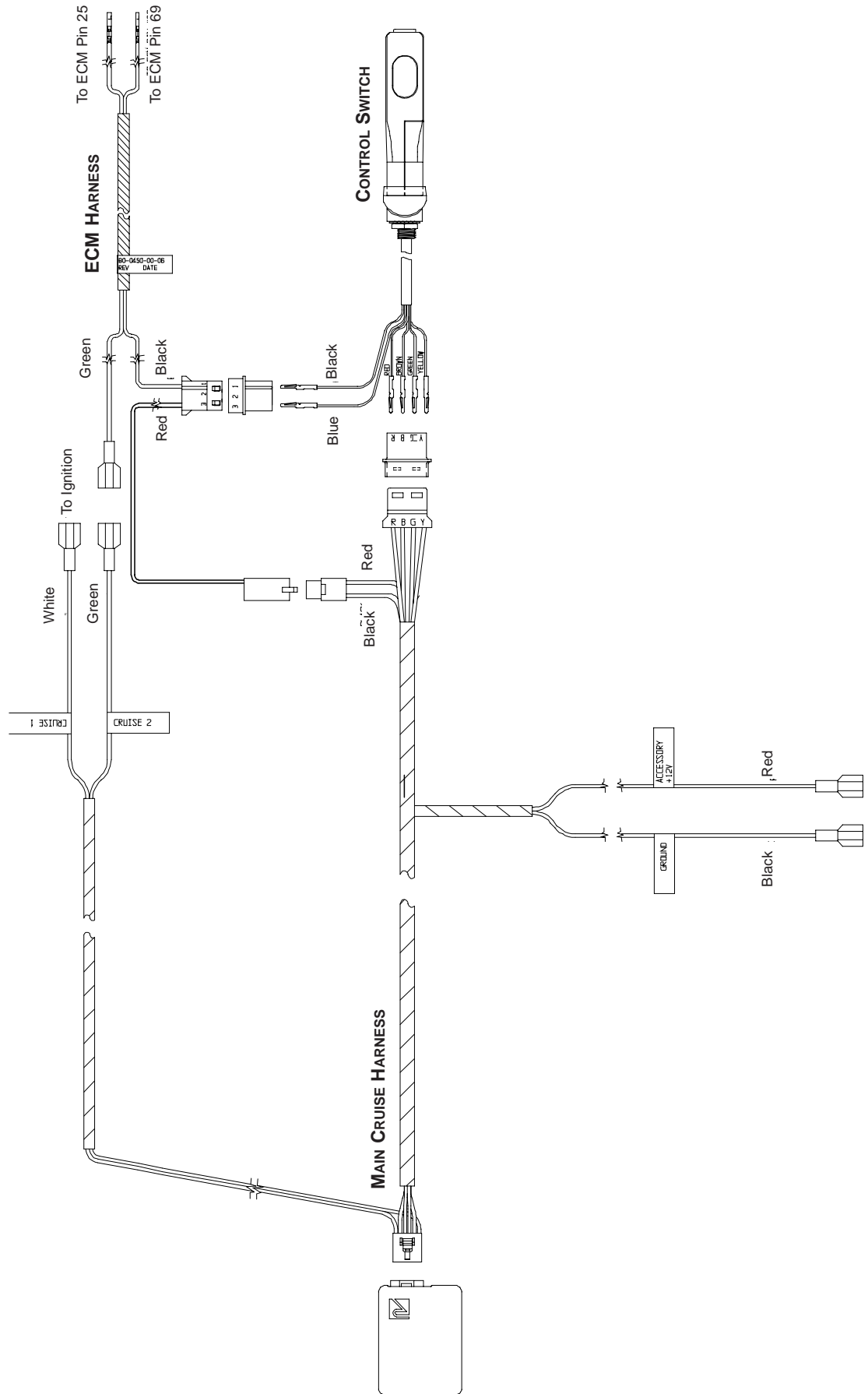
**Off: 4.5 volts**

**On: 13.6 volts**

**On with "Set" pressed: 1.5 volts**

**On with "Resume" pressed: 2.8 volts**

# WIRING DIAGRAM



# NOTES



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