

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

SERVICE PART NUMBERS

ITEM	QTY	DESCRIPTION	PART NUMBER
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

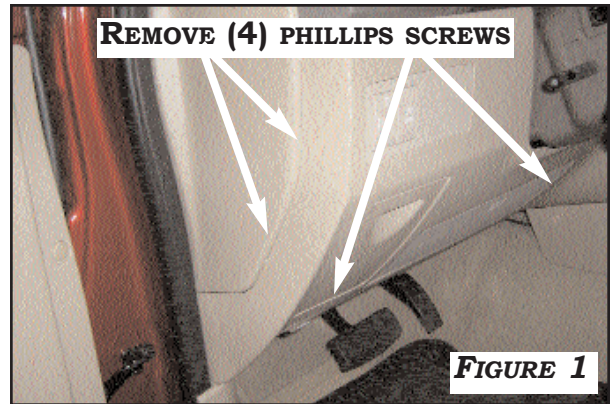
INSTALLATION	2
CONTROL SWITCH	3
TROUBLESHOOTING	5

INSTALLATION

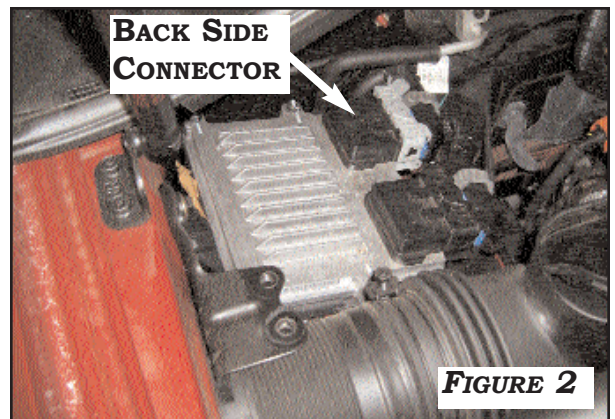
A. INSTALLATION PREPARATION:

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

FIGURE 1. REMOVE STEERING SHROUD COVER.



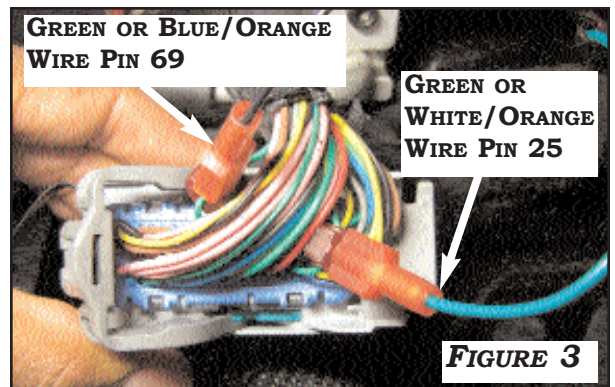
2. **SORENTO:** REMOVE AIR DUCT ON PASSENGER SIDE OF ENGINE COMPARTMENT TO ACCESS ECM. REMOVE BACK SIDE ECM CONNECTOR CLOSEST TO FIREWALL OF VEHICLE. **FIGURE 2.** RELEASE COVER ON CONNECTOR TO ACCESS WIRING.



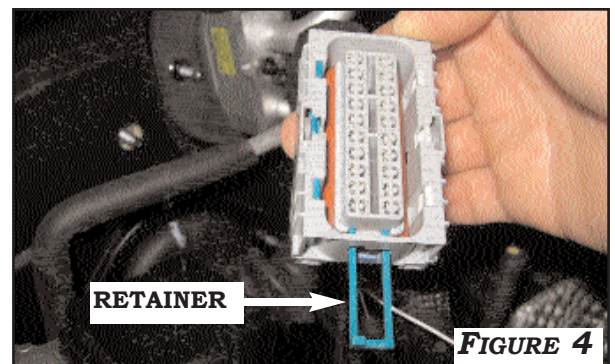
3. **RONDO:** REMOVE THE LEFT SIDE PCM CONNECTOR ON DRIVER SIDE OF THE ENGINE COMPARTMENT.

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.

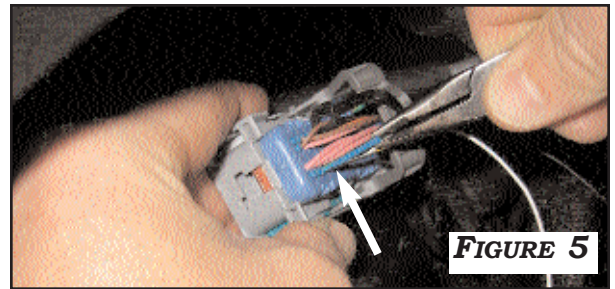


FIGURE 5

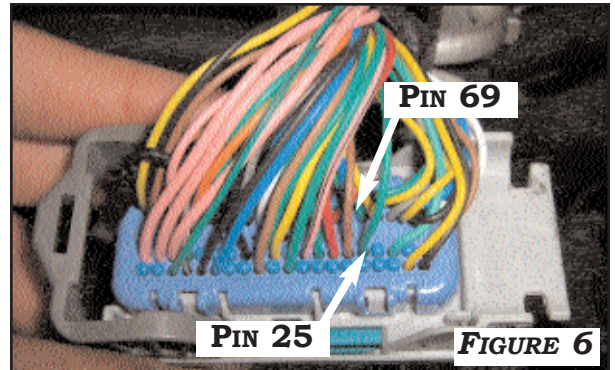


FIGURE 6

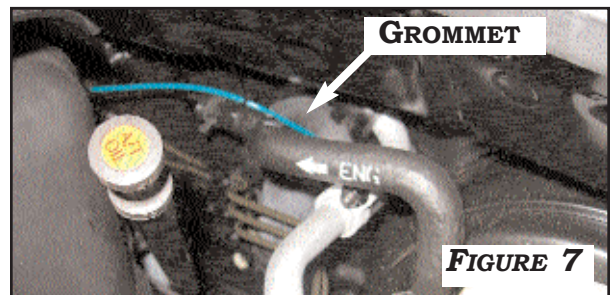


FIGURE 7

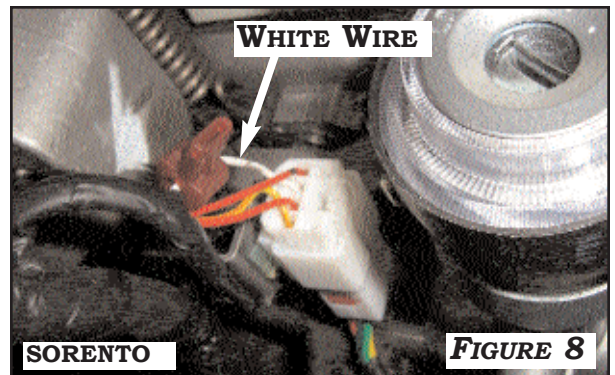


FIGURE 8

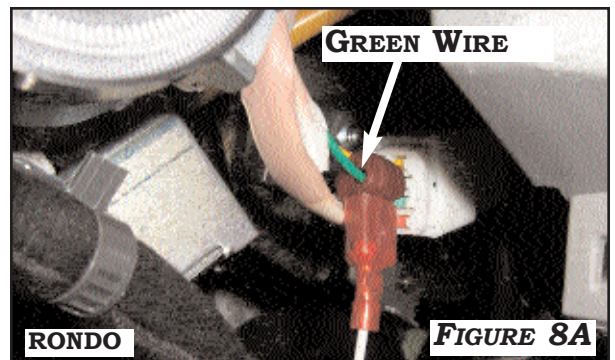


FIGURE 8A

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.

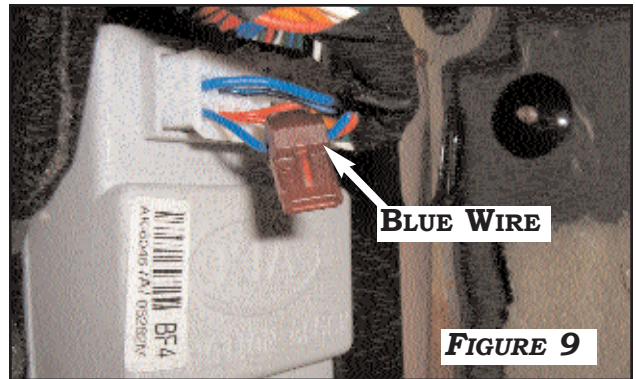


FIGURE 9

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

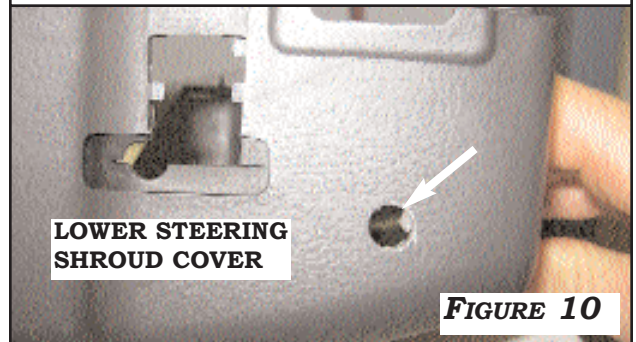


FIGURE 10

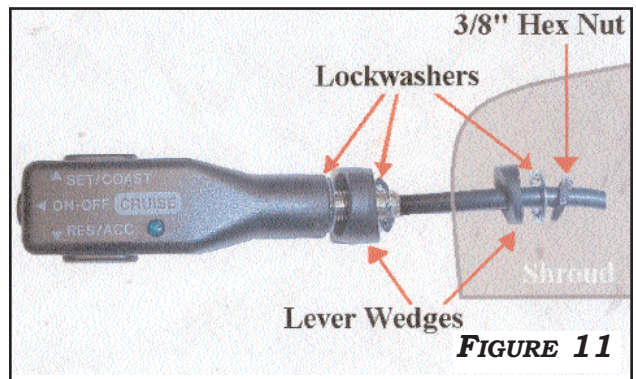
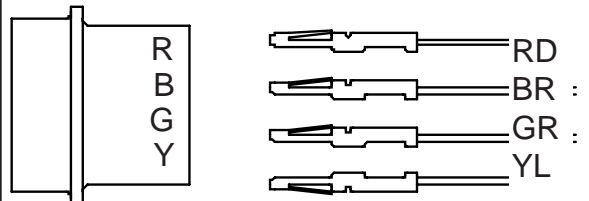


FIGURE 11

4 PIN CONNECTOR HOUSING



3 PIN CONNECTOR HOUSING

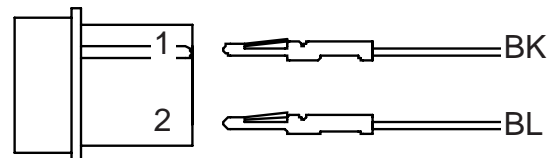


FIGURE 12

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:**

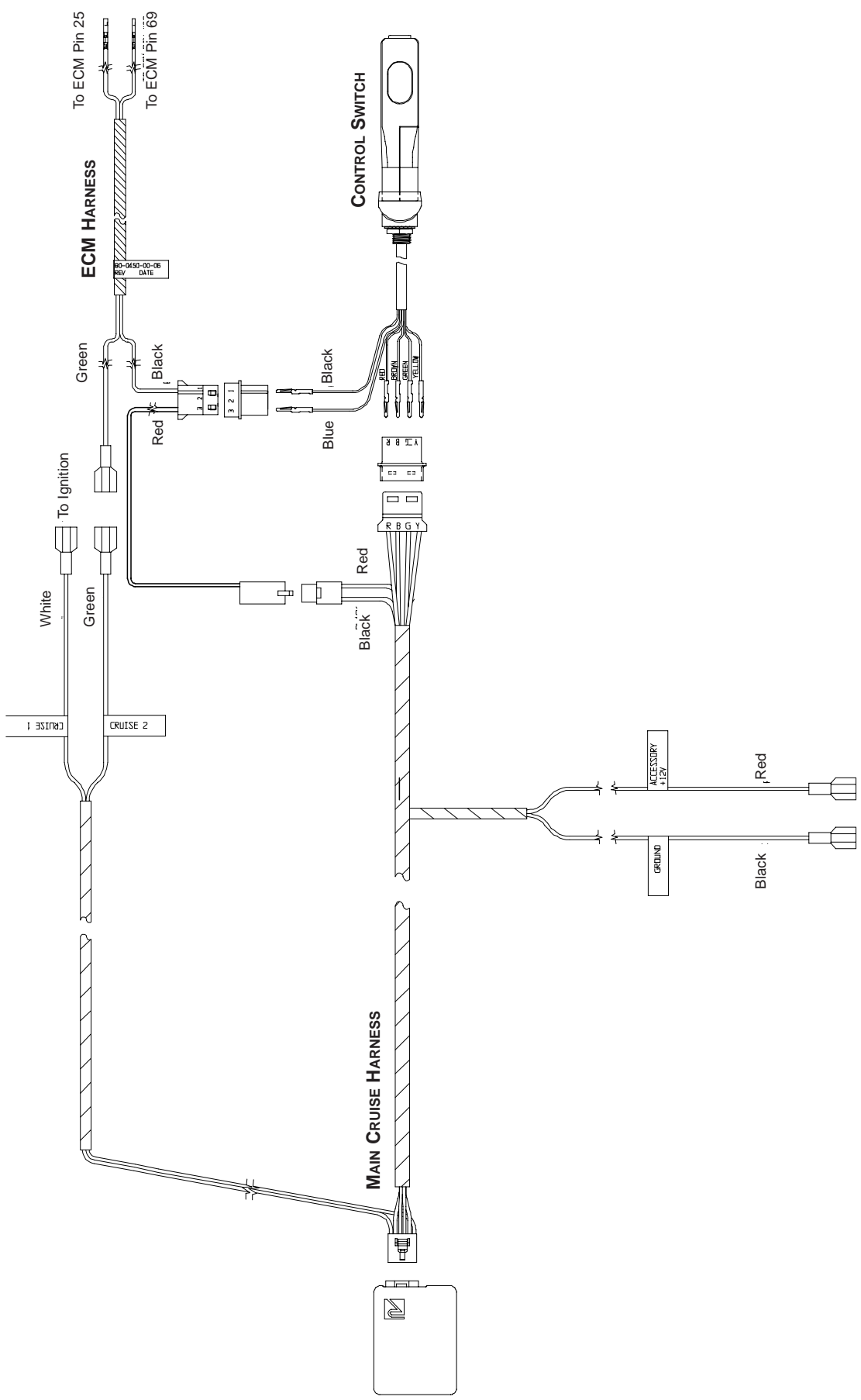
Off: 4.5 volts

On: 13.6 volts

On with "Set" pressed: 1.5 volts

On with "Resume" pressed: 2.8 volts

WIRING DIAGRAM



NOTES



ROSTRA.COM