CHRYSLER TOWN & COUNTRY/ JEEP LIBERTY 09-11 DODGE RAM 1500/ DAKOTA NEW BODY

PART NUMBER: 250-9001

KIT CONTENTS

ITEM	Q TY	DESCRIPTION	
1	1	CRUISE CONTROL SWITCH/HARNESS	
2	1	ECM HARNESS	
3	1	Hardware Package	
4	1	Clockspring Harness	

SERVICE PARTS

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROL SWITCH	250-2716
2	1	CLOCKSPRING/ECM	250-2728
		Harness	
3	1	Hardware Package	250-2714

HARDWARE PACKAGE CONTENTS

ITEM	Qтy	DESCRIPTION	
1	2	#10 Screws, T-25	
2	3	Posi-Tap Connectors	
3	1	Convoluted tubing, 36 inches	
4	5	Cable Ties	
5	3	#6 Screws, T-15	

Additional Items Required for Install

ITEM	QTY	DESCRIPTION
1	N/A	Electrical Tape
2		
3		
4		

CONFLICTS

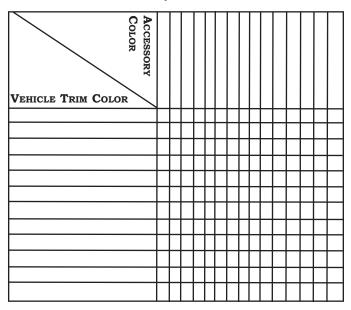
Note:			

RECOMMENDED TOOLS

SAFETY TOOLS	
SPECIAL TOOLS	
Installation Tools	
FASTENER REMOVAL TOOL	Wire Cutters
Trim Removal Tool	PHILLIPS SCREWDRIVER
10-mm Deep Socket	Pliers
T15 Driver	T25-Driver
SPECIAL CHEMICALS	

FORM #5163, REV. F, 04-07-11

COLOR APPLICABILITY/TRIM LEVEL



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		

* Mandatory

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.



 $\underline{\textbf{TOOLS}}$ & $\underline{\textbf{EQUIPMENT:}}$ This calls out the specific tools and equipment required for the process.



 ${\bf REVISION}$ ${\bf MARK}.$ This mark highlights a change in installation with respect to previous issue.

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

DODGE RAM 1500 / DAKOTA NEW BODY

1. DISCONNECT THE CABLE FROM THE NEGATIVE TERMINAL OF THE BATTERY. ${f Figure~1}$







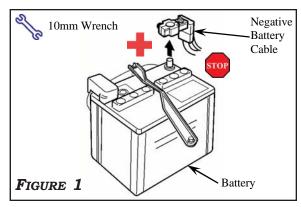
CAUTION: ENSURE THAT BATTERY HAS BEEN DIS-CONNECTED FOR MORE THAN 90 SECONDS PRIOR TO REMOVAL OF AIRBAG; FAILURE TO HEAD THIS WARN-ING MAY RESULT IN AIRBAG DISCHARGE AND MAY CAUSE SERIOUS INJURY OR DEATH.

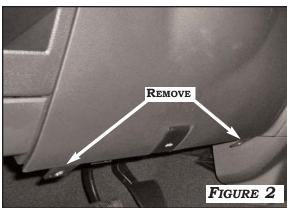


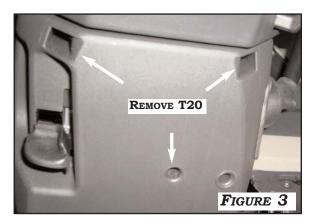


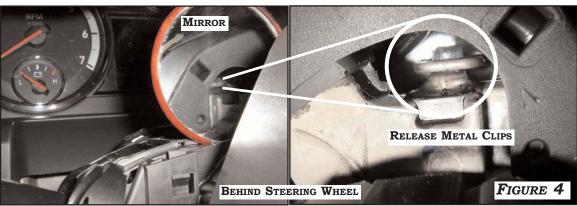


- **2.** Remove lower dash panel by removing (2) phillips screws as shown in **Figure 2.**
- **3.** Remove (3) T20 screws to remove the steering shroud as shown in **Figure 3**.
- **4.** Locate the (3) metal clips behind the steering wheel. Use a mirror for a better view as an option. **Figure 4**









VEHICLE PREPARATION

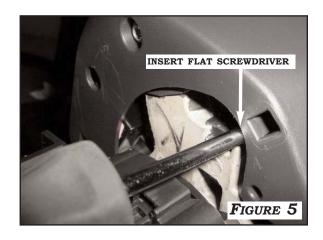
DODGE RAM 1500 / DAKOTA NEW BODY CONTINUED...

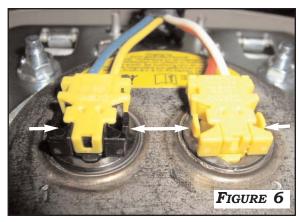
5. Place a flat head screwdriver below each clip and twist while pulling the air bag forward to release. **Figure 5**

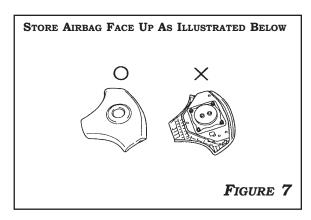
6. Press in sides of both connectors to remove airbag as shown is figure ${\bf Figure}~{\bf 6}$



CAUTION: BE SURE TO STORE AIRBAG FACE UP AS ILLUSTRATED IN FIGURE 7 TO REDUCE INJURY IN EVENT OF ACCIDENTAL DISCHARGE OF AIRBAG.







CONTROL SWITCH

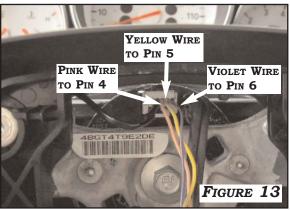
(Dodge Ram 1500/Dakota New Body)

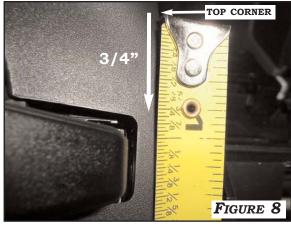


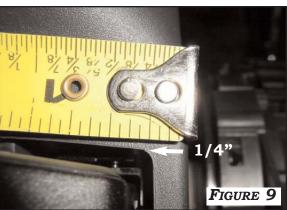


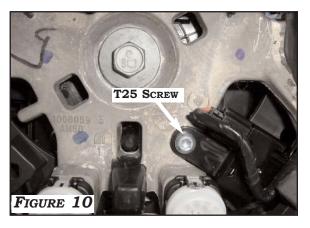
- 1. Measure 3/4" down from the back side top corner AND 1/4" IN FROM THE OUTER EDGE TO CUT CLEARANCE FOR SWITCH AT RIGHT SIDE OF STEERING COLUMN. FIGURES 8 & 9.
- 2. Use (2) #10, T25 screws provided in hardware bag TO MOUNT CRUISE CONTROL SWITCH. FIGURES 10 & 11
- 3. For switch with harness connector: Remove fac-TORY 6-PIN CONNECTOR OF VEHICLE AND EXTACT PINS 2 AND 3 (HORN). FIGURE 12. REPLACE FACTORY CONNEC-TOR WITH ROSTRA SWITCH CONNECTOR. CONNECT REMAIN-ING 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 LOCA-TIONS 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 13

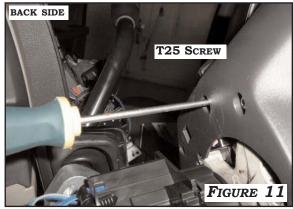












VEHICLE PREPARATION

DODGE NITRO, CARAVAN, JOURNEY, TOWN & COUNTRY, AND JEEP LIBERTY





- Remove the negative battery cable before installing the cruise control components for safety precautions.
- 2. Remove steering column shroud. Remove airbag by using flat head screwdriver to release (3) metal clips as shown in *Figures* 1,2.



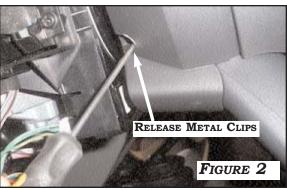
CAUTION: ENSURE THAT BATTERY HAS BEEN DISCONNECTED FOR MORE THAN 90 SECONDS PRIOR TO REMOVAL OF AIRBAG; FAILURE TO HEED THIS WARNING MAY RESULT IN AIRBAG DISCHARGE AND MAY CAUSE SERIOUS INJURY OR DEATH.

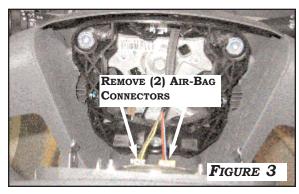
3. Press in sides of both connectors to remove airbag as illustrated in *Figure 3*.

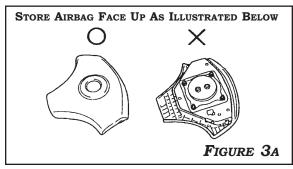


CAUTION: BE SURE TO STORE AIRBAG FACE UP AS ILLUSTRATED IN FIGURE 3A TO REDUCE INJURY IN EVENT OF ACCIDENTAL DISCHARGE OF AIRBAG.









CLOCKSPRING/ECM HARNESS





- 1. Some Vehicles are prewired for cruise. Verify ECM POSITIONS ARE OCCUPIED. IF OCCUPIED, SKIP TO CRUISE SWITCH INSTALLATION.
- 2. Dodge Caravan, Journey, and Town & Country Applications: Locate four connector ECM at driver SIDE FENDER WELL BEHIND SPLASH GUARD AT FRONT WHEEL. DODGE NITRO AND JEEP LIBERTY APPLICATIONS: LOCATE ECM AT PASSENGER SIDE FENDER WELL. GO TO THIRD CONNECTOR (WHITE ON BOTTOM SIDE). FIGURE 4. Remove top of connector. Locate PIN 15 VIOLET/BROWN WIRE, PIN 18 VIOLET/ORANGE WIRE, AND PIN 34 VIOLET WIRE. FIGURE 5. IF WIRES ARE PRE-SENT, THEN VEHICLE IS PREWIRED. SKIP TO CONTROL SWITCH INSTALLATION. IF WIRES ARE NOT IN THE POSITIONS, USE CLOCKSPRING/ECM HARNESS SUPPLIED IN KIT.
- 3. Release slot clip to free pins in connector. Use PRECISION TOOL TO BREAK PLASTIC INSERT IN OPENING OF PIN 15, 18 AND 34 OF CONNECTOR (FIGURE 6). PUSH OUT REMAINS ON REVERSE SIDE AS SHOWN IN FIGURE 7.

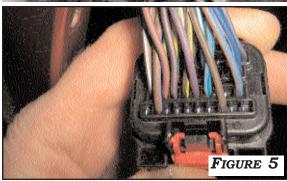


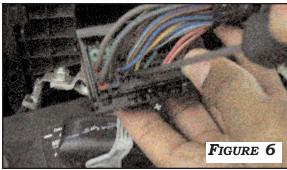
CAUTION: BE SURE PLASTIC INSERT IS FULLY REMOVED BEFORE INSERTING EACH PIN.

4. Insert Pink cruise wire to Pin 18 of ecm, Violet CRUISE WIRE TO PIN 34, AND YELLOW CRUISE WIRE TO PIN 15. ONCE PINS ARE INSERTED, RE-ASSEMBLE CONNEC-TOR. ROUTE THE CLOCKSPRING/ECM HARNESS INSIDE VEHICLE TO STEERING COLUMN. LOOK BELOW STEERING COLUMN. LOCATE FAR RIGHT CLOCKSPRING CONNECTOR. FIGURE 8. USING CLOCKSPRING/ECM HARNESS IN KIT, INSERT PINK CRUISE WIRE TO PIN 4, YELLOW CRUISE WIRE TO PIN 5, AND VIOLET CRUISE WIRE TO PIN 6. FIGURE **8A**











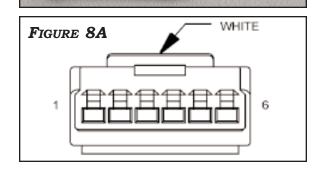


FIGURE 7

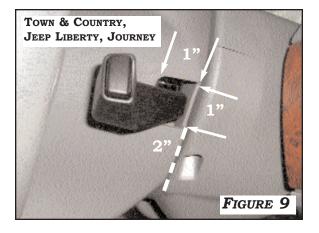
CONTROL SWITCH (DODGE CARAVAN, JOURNEY, JEEP LIBERTY, AND TOWN & COUNTRY)

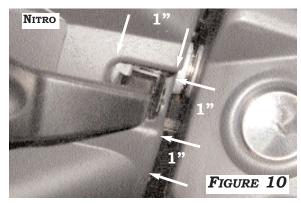


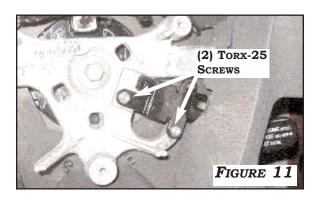


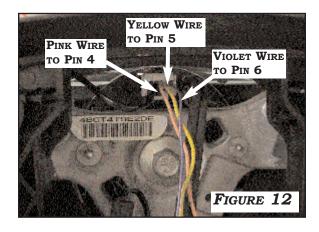


- 1. Cut clearance for switch at right side of steering column. For Dodge Caravan, Journey, Jeep liberty, and Town & Country use Figure 9. For Dodge Nitro use Figure 10.
- 2. Use (2) #10, T25 screws provided in hardware bag to mount cruise control switch. Figure 11
- 3. Locate white 6 pin connector inside 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 12









REASSEMBLY





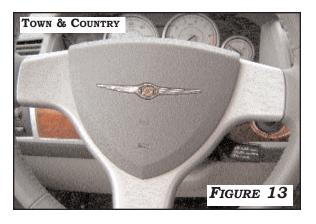


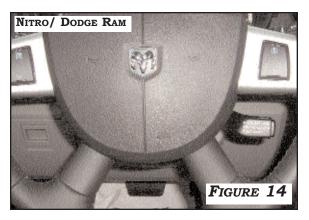
- 1. REINSTALL AIRBAG.
- 2. Reconnect negative battery cable and torque nut to 35 ft*lbs.

TESTING

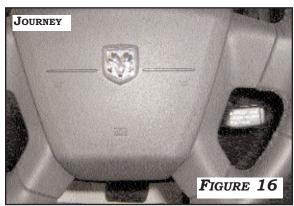
WHILE DRIVING VEHICLE, PRESS [ON/OFF] BUTTON ON CRUISE SWITCH TO ENGAGE CRUISE CONTROL. WITH VEHICLE ABOVE MINIMUM SET SPEED (REFER TO OWNER'S MANUAL), VERIFY THE FOLLOWING:

- 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.

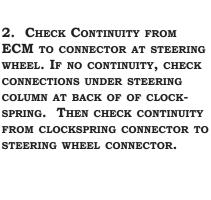


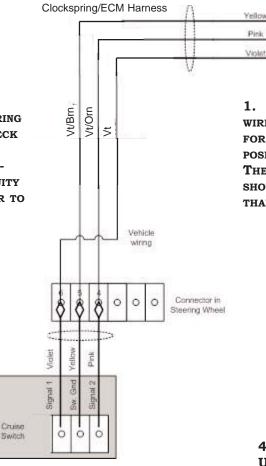






TROUBLESHOOTING





1. CHECK VOLTAGES ON THE PINK WIRE IN THE ECM AT POSITION 18 FOR 5 VOLTS. THE VIOLET WIRE AT POSITION 34 SHOULD READ 5 VOLTS. THE YELLOW WIRE AT POSITION 15 SHOULD HAVE A GROUND NO HIGHER THAN 3 OHMS OF RESISTANCE.

C1 connector to ECM

∞34

Signal 2 5 volts

Signal 1 5 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

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



NOTES

