

2010 FORD TRANSIT

Part Number: 250-1857

ELECTRONIC CRUISE KIT

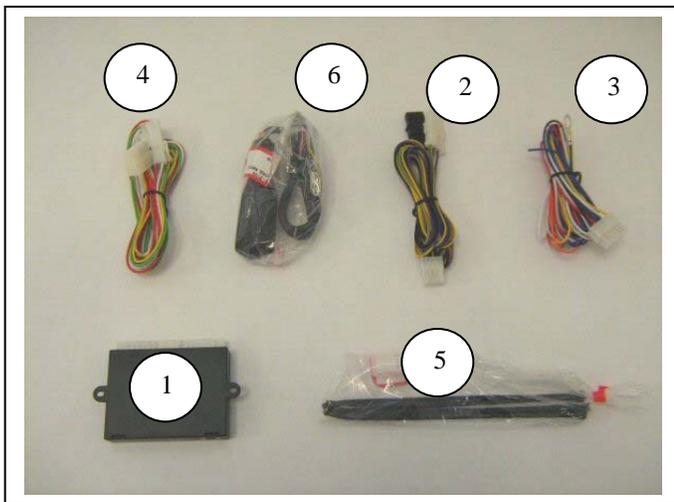
AUTOMATIC AND MANUAL TRANSMISSION

General Applicability

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Item #	Qty.	Description
1. 250-2758	1	Cruise Control Module
2. 250-2760	1	Switch Harness
3. 250-2759	1	Main Wiring Harness
4. 250-2771	1	Pedal Interface Harness
5. 250-2772	1	Hardware Kit
6. 250-3742	1	Control Switch

Kit Contents/Service Parts



Contents of Hardware Bag, 250-2768

Qty	Description
8	Wire Zip Ties
1	Weather Sealant

Additional Items Required For Installation

Recommended Tools

Safety Tools	
Gloves, Safety Glasses	
Special Tools	
Volt-Ohm Meter	
Installation Tools	
Side cutter	To cut wire ties
Drill Bit or Knockout Punch	9.5mm or 3/8" (for switch)
10mm wrench	
Soldering Tool	
Special Chemicals	

Conflicts

Note:

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process



DUE TO SENSITIVE NATURE OF SIGNALS USED FOR THIS PRODUCT ALL CONNECTIONS MUST BE SOLDERED.

FAILURE TO COMPLY WITH THIS REQUIREMENT WILL VOID WARRANTY.

Section I – Installation Procedure

A. Pre-Installation Suggestions

-  1. It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting. **Figure 1**



- 2. Remove the driver side lower dash and kick panels. Remove the steering wheel shroud. **Figure 2**

 **B. Install Electronic Module**



- 1. Plug in the **Main Wiring Harness, Switch Harness, and Pedal Interface Harness** onto mating connectors of the **Cruise Control Module**. **Figure 3**
- 2. Place the **Cruise Control Module** in a secure location behind the driver side dash area near the firewall away from moving parts and secure with zip ties.
- 3. Route the **Pedal Interface Harness** through steering column and down to the accelerator.

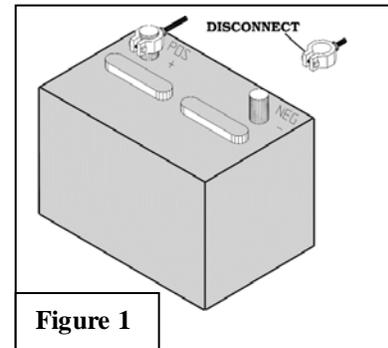


Figure 1



Figure 2

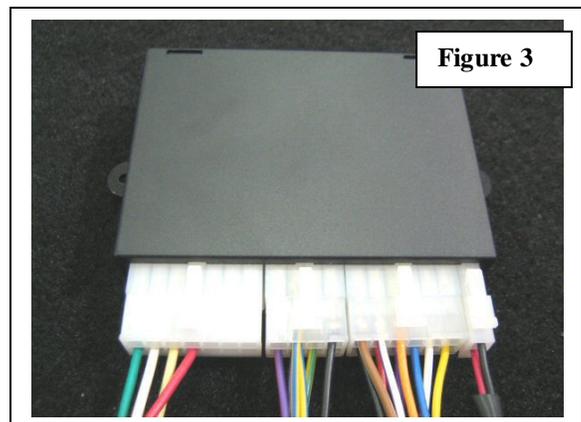


Figure 3

C. Install Pedal Interface Harness

1. Use the diagram and chart below to install the pedal interface harness. Disconnect the Pedal Interface Harness at the 2-pin connectors to ease installation of solder connections. Cut the selected wires at the accelerator harness leaving at least 2 inches of harness from the connector. Solder the wire ends from the pedal interface harness to the accelerator pedal harness according to each wire color listed in chart. **After soldering, wrap the exposed wires with electrical tape. Figure 4.**



WARNING: PROCEED WITH CAUTION TO BE SURE PEDAL INTERFACE HARNESS IS MATED PROPERLY TO THE ACCELERATOR HARNESS. FAILURE TO DO THIS CORRECTLY WILL DISABLE THE ACCELERATOR.

 : Solder Joint

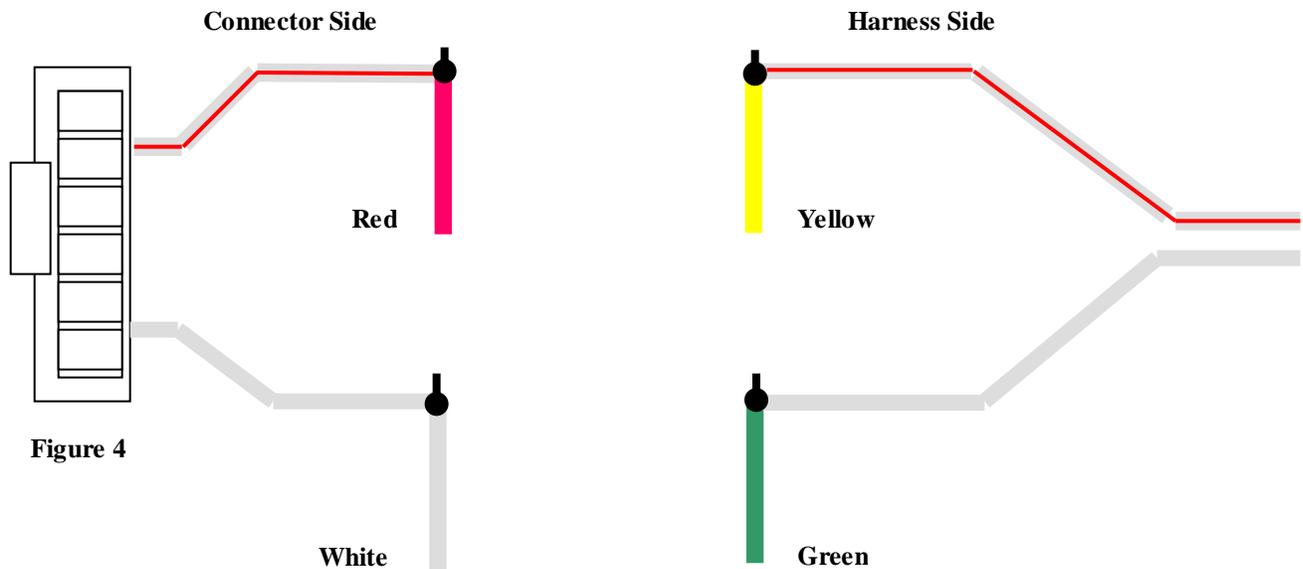


Figure 4

TRANSIT CONNECTIONS

Solder Direction	Cruise Harness Color	Vehicle Wire
CONNECTOR	RED	WHITE/RED
CONNECTOR	WHITE	WHITE
HARNESS	YELLOW	WHITE/RED
HARNESS	GREEN	WHITE

- 2. Check for good solder connection:
Before continuing cruise installation, plug the 2-pin mating connectors in to each other as shown in **Figure 5**. Reconnect negative side of battery. Start engine and depress accelerator to confirm operation. Turn off engine and disconnect battery.



- a. If a DTC code appears, restart Section C and ensure proper wire matching and good Posi-tap connections.
- 3. Unplug the 2-pin mating connectors from each other (connected together in the last step) and re-connect to the 2-pin mating connectors of **Pedal Interface Harness**. Use **electrical tape** supplied in kit to wrap all connections.

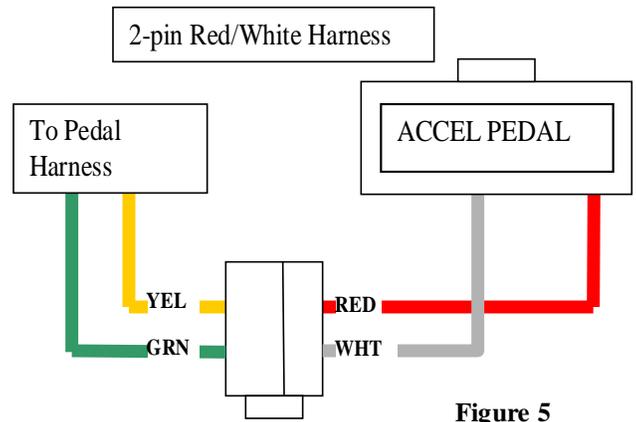
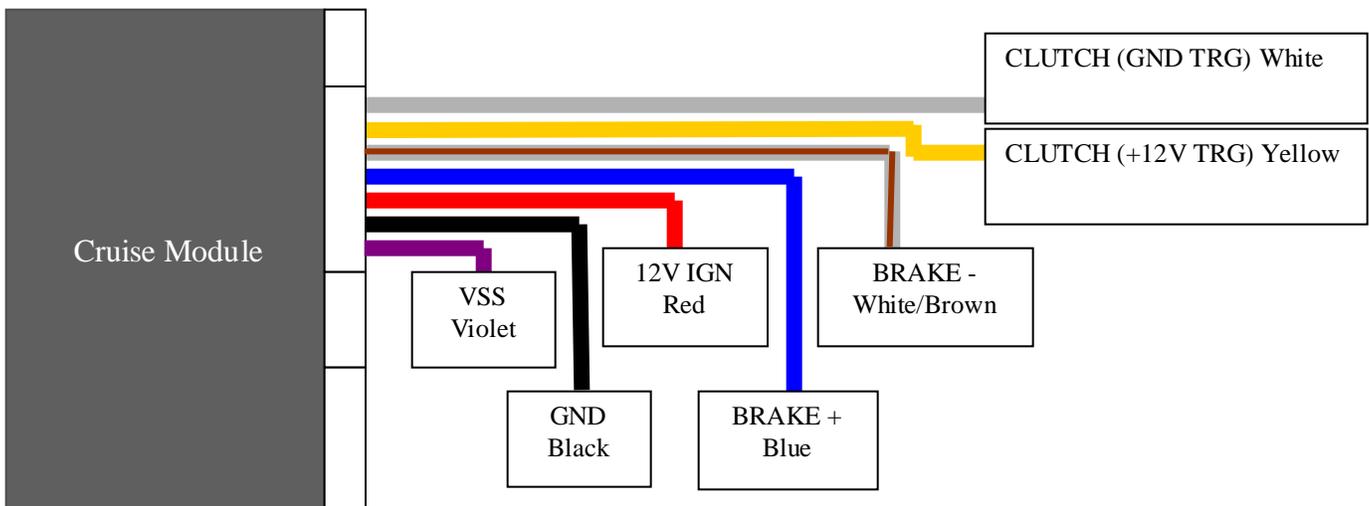


Figure 5

D. Wiring Connections



- 1. Use the following wiring diagram as a reference to connect cruise to the vehicle:



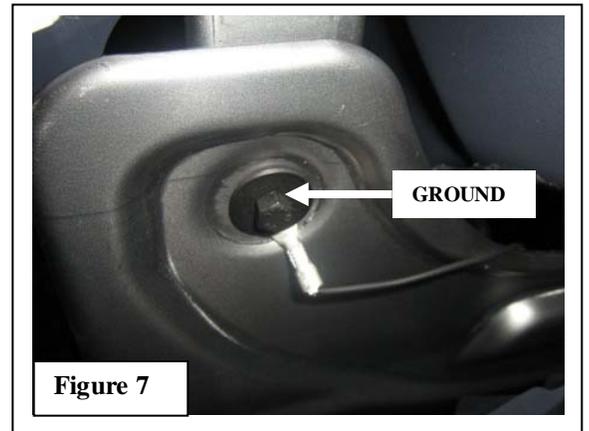
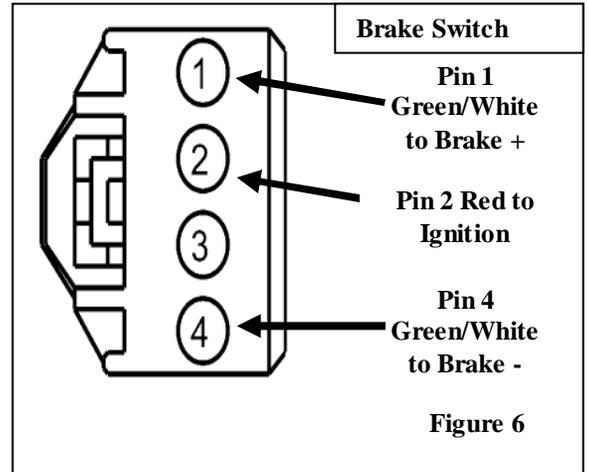


E. Wiring Connections (It is advisable use solder for all wiring connections)

1. Locate the following wires to connect to the main harness from the control module.

Function	Cruise Harness Color	Vehicle Wire
IGN	RED	RED (figure 6)
BRAKE +	BLUE	GREEN/WHITE (fig 6)
BRAKE -	BROWN/WHITE	GREEN/WHITE (fig 6)
VSS	VIOLET	GREEN/WHITE OR WHITE/BLUE (fig 11)
CLUTCH SWITCH	WHITE	PAGE 4

2. Apply the **Black Ground Wire** from the Main Harness to the Vehicle Ground Point at the lower dash frame panel. **Figure 7**



3. **VSS:** Locate the area center of the engine compartment between motor and firewall.
Figure 8. For reference, find the black metal bracket in front of the gray and blue connectors. **Figure 9.** Locate the gray 2-pin connector on the transmission below the bracket. **Figure 10.** Connect the **Violet Wire** from the cruise harness to **Green/White** or **White/Blue Wire (VSS)** in **Pin 2** of the connector. Be sure all of connections are tight so that they seal properly. **Figure 11**



Figure 8

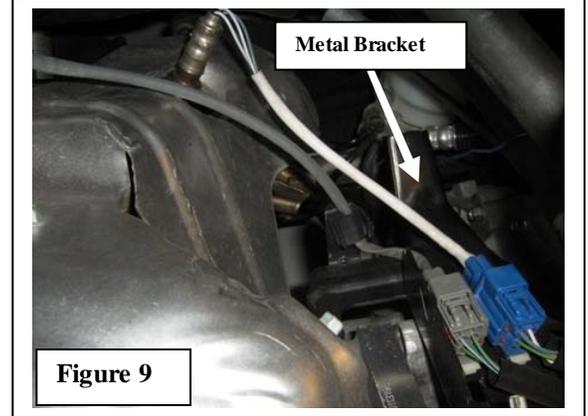


Figure 9

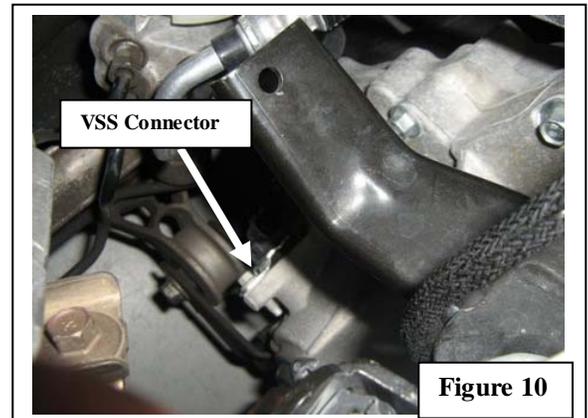
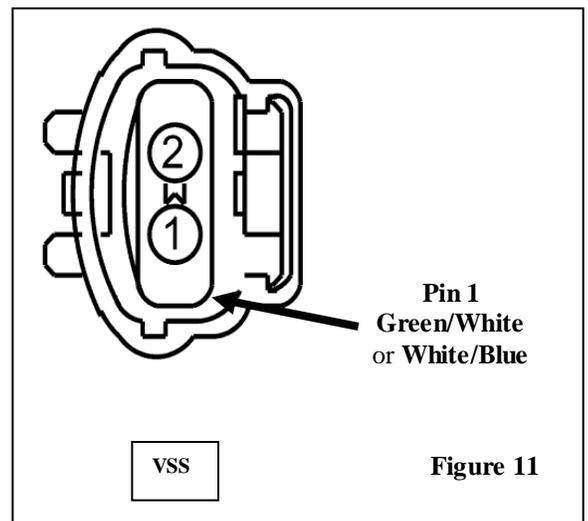


Figure 10



Pin 1
Green/White
or White/Blue

VSS

Figure 11



F. Install Control Switch



1. Use the **lever wedges** on the **Control Switch** at an angle template to drill a 3/8" or 9.5mm hole in the lower shroud of the steering column cover. Position lock-washers as shown. **Figure 12**
2. Apply nut and position **Control Switch** for driver's best view.
3. Assemble (2) 3-pin connectors from the sack parts to the mating wire colors on the **Control Switch Harness**. Use the diagram to mate the **module harness** to **switch harness**. **Figure 13**
4. Route the assembled **Control Switch Harness** to the mating connector of the Cruise Control module.
5. Secure the Control Switch harness with zip ties away from moving parts.

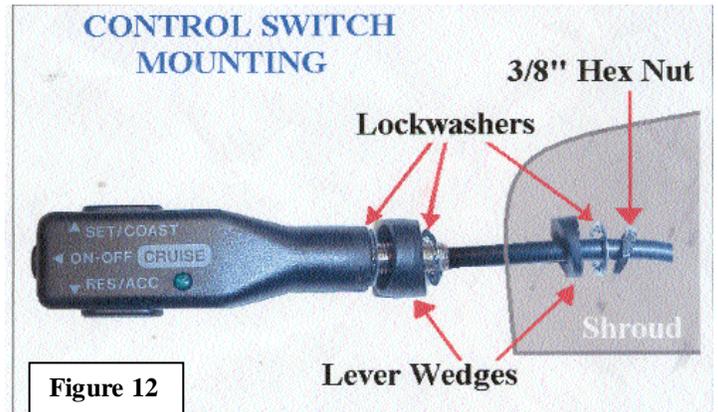


Figure 12

G. Testing



1. Reconnect negative battery cable and torque to 35 in*lbs. Reenter anti-theft radio codes.
2. Turn ignition on. Apply the on/off button of Cruise Control Switch.

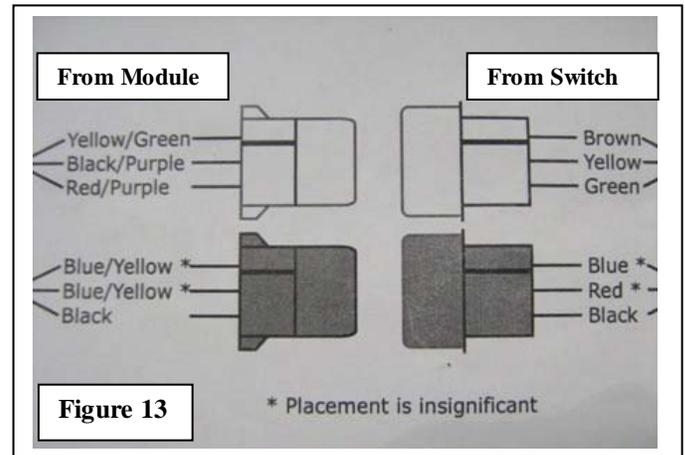


Figure 13



F. Reassembly

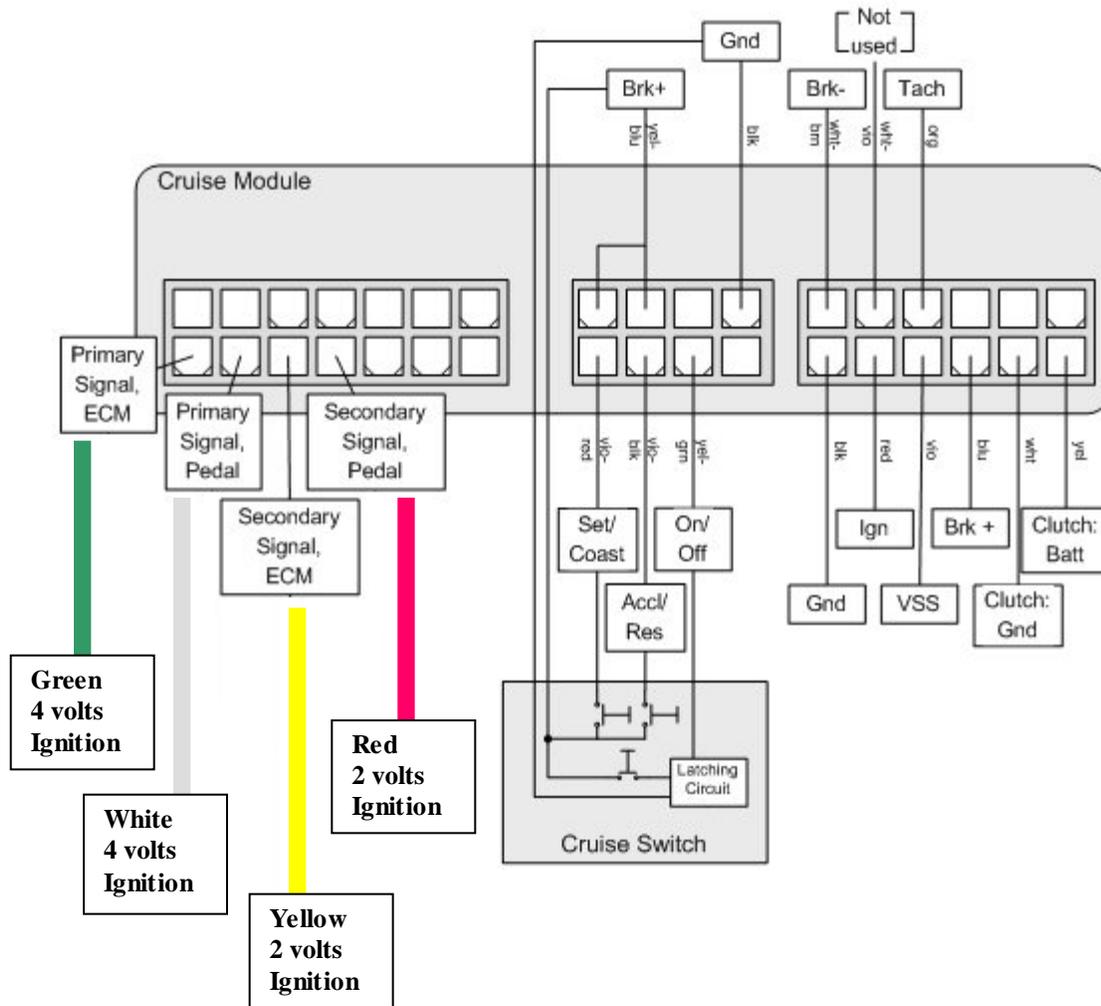
1. Reinstall all removed pieces taking care to ensure harnesses and wiring connections are properly secured.
2. Make sure all harnesses are not pinched or bound by trim pieces.



Switch Installed

Figure 14

Section II - Wiring Diagram

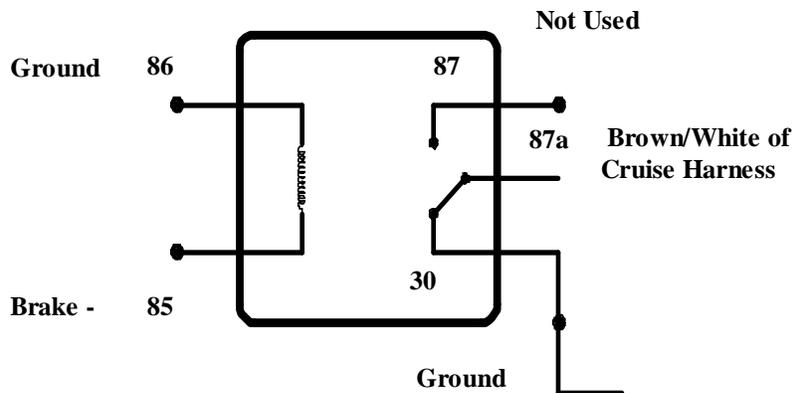


Note: All Pedal Interface Harness
Voltages are with pedal fully depressed

WIRING HARNESS DESCRIPTION

Function	Color	Results	Fault Conditions
Ignition	Red	+12V when switched on and +0V when switched off. Ignition must be greater than +10V while cranking vehicle.	No power, voltage drop, or intermittent connection will cause Loss of pedal or "Limp Mode" condition.
Brake positive +	Blue	"Hot" side of brake switch. +12V all the time.	Cruise will not function if this connection is not installed correctly.
Brake negative -	Brown/White	"Cold" side of Brake switch. Zero (0) resistance to ground when brake is not pressed. +12V when brake is pressed.	Cruise will not function if this connection is not installed correctly. If connection is good, and there is a high resistance to ground, a 5 terminal relay will be required to complete installation. See diagram below.
Ground	Black	Lowest resistance to ground closest to zero (0) ohms as possible. Use a vehicle ground point where other ground wires are connected to.	A bad ground connection will cause the following conditions: Cruise will not function; Loss of pedal or "Limp Mode" condition.
Clutch (GND triggered)	White	Ground active wire at switch when clutch is depressed.	Cruise will not function if wrong wire is connected –OR–  Cruise will not disengage when clutch is depressed.
Clutch (+12V triggered)	Yellow	+12V active wire at switch when clutch is depressed.	Cruise will not function if wrong wire is connected –OR–  Cruise will not disengage when clutch is depressed.

5 Terminal Relay for Brake Switch



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