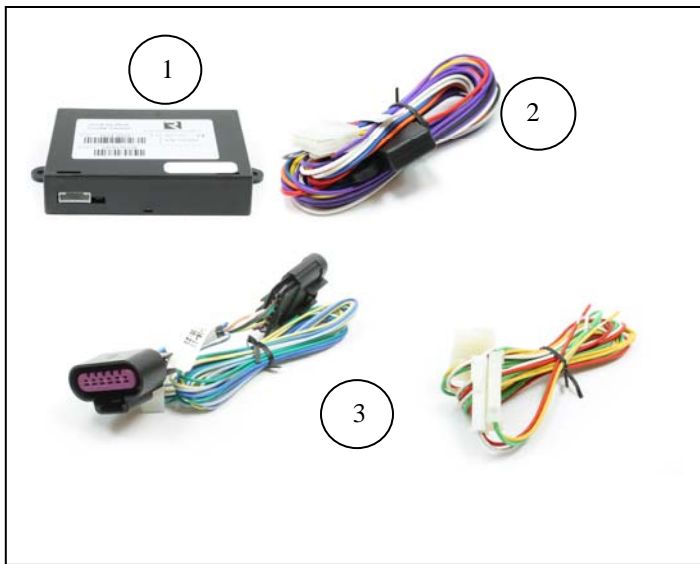


General Applicability

Kit Contents/Service Parts

Item #	Qty	Description	Service Part #
1	1	Cruise Control Module	250-2763
2	1	Main Wiring Harness	250-2759
3	1	Pedal Interface Harness PNP	250-2766
	1	Pedal Interface harness UNI	250-2771



Contents of Hardware Bag

Qty	Description
8	Wire Zip Ties

Recommended Tools

Safety Tools	
Safety Glasses	
Special Tools	
Volt-Ohm Meter	
Installation Tools	
Trim Removal Tool	
Soldering Tool	
Special Chemicals	

Note:

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

CRITICAL PROCESS: Proceed with caution to ensure a quality installation.



WARNING: DO NOT USE HAND-HELD 2-WAY TRANSCEIVERS INSIDE YOUR VEHICLE WHILE DRIVING.

WHEN TRANSMITTING FROM INSIDE THE CAR, 2-WAY RADIOS THAT OPERATE IN THE 25MHz-700MHz FREQUENCY RANGE WITH MORE THAN 2.0 WATTS OF POWER CAN PRODUCE ELECTROMAGNETIC INTERFERENCE THAT COULD INTERFERE WITH THE OPERATION OF CRUISE AND THROTTLE CONTROLS RESULTING IN VEHICLE "LIMP MODE".

USE OF CELLULAR PHONES WILL NOT INTERFERE WITH THESE CONTROLS.



DUE TO SENSITIVE NATURE OF SIGNALS USED FOR THIS PRODUCT, ALL NON-PLUG AND PLAY CONNECTIONS MUST BE SOLDERED. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL VOID WARRANTY.

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 or code being trigger in vehicle. Note and record any anti-theft radio codes prior to disconnecting. **Figure 1**

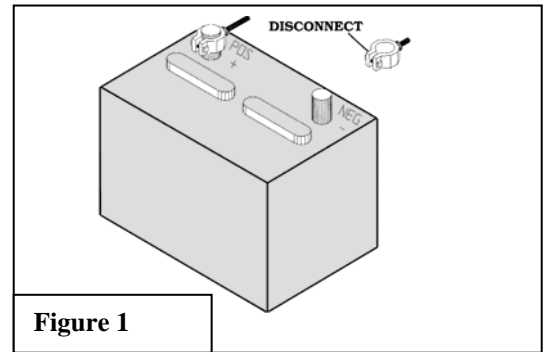


Figure 1

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 2**
2. Place the **Cruise Control Module** in the secure location behind the driver side dash area near the firewall away from moving parts.
3. Route the **Pedal Interface Harness** down to the accelerator pedal.
4. **Meter to find you PRIMARY signal wire of vehicle at accelerator pedal.**

With ignition on of the six wires coming out of the accelerator connector find the wire which reads

At rest: 0.75-0.79 volts at full throttle 3.5-4.0 volts

5. **Meter to find you SECONDARY signal wire of vehicle at accelerator pedal.**

With ignition on of the six wires coming out of the accelerator connector find the wire which reads

At rest: 0.30-0.40 volts at full throttle 1.8-2.1 volts

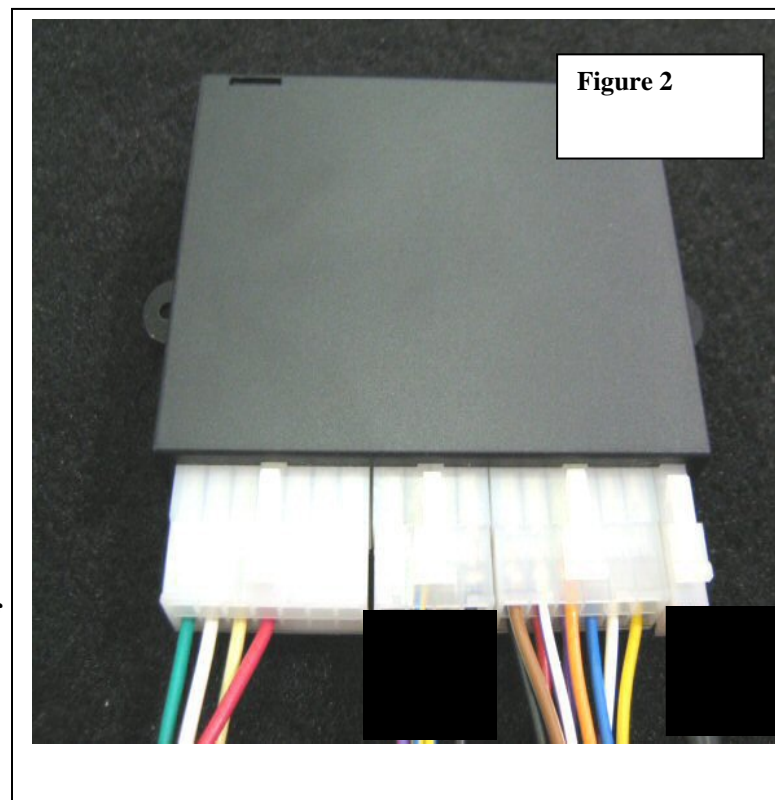


Figure 2

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.**

Note: This kits also has a plug & play harness for the accelerator. If your accelerator is a match Connect harness inline to accelerator pedal. NO soldering needed just plug in line with accelerator pedal harness Shown below. If not a match continue to follow instructions



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

Connector Side

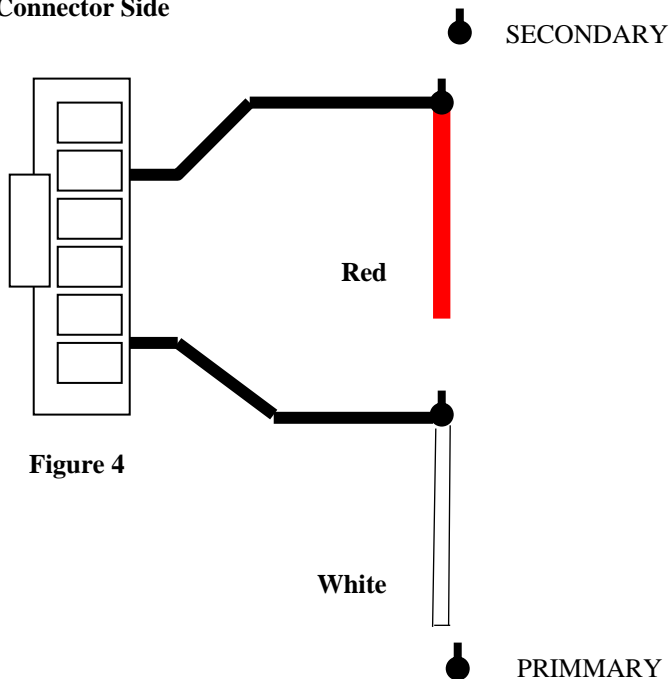
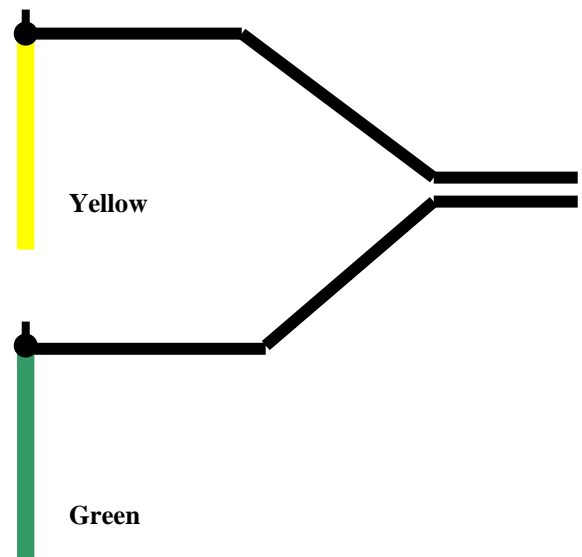


Figure 4

Harness Side of vehicle



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 solder connections.

3. Unplug the 2-pin mating connectors from each other (connected together in the last step) and reconnect to the 2-pin mating connectors of Pedal Interface Harness. **Use electrical tape to wrap all connections.**

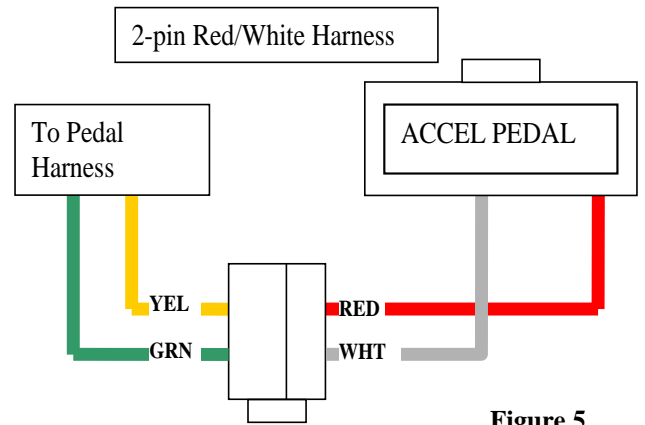
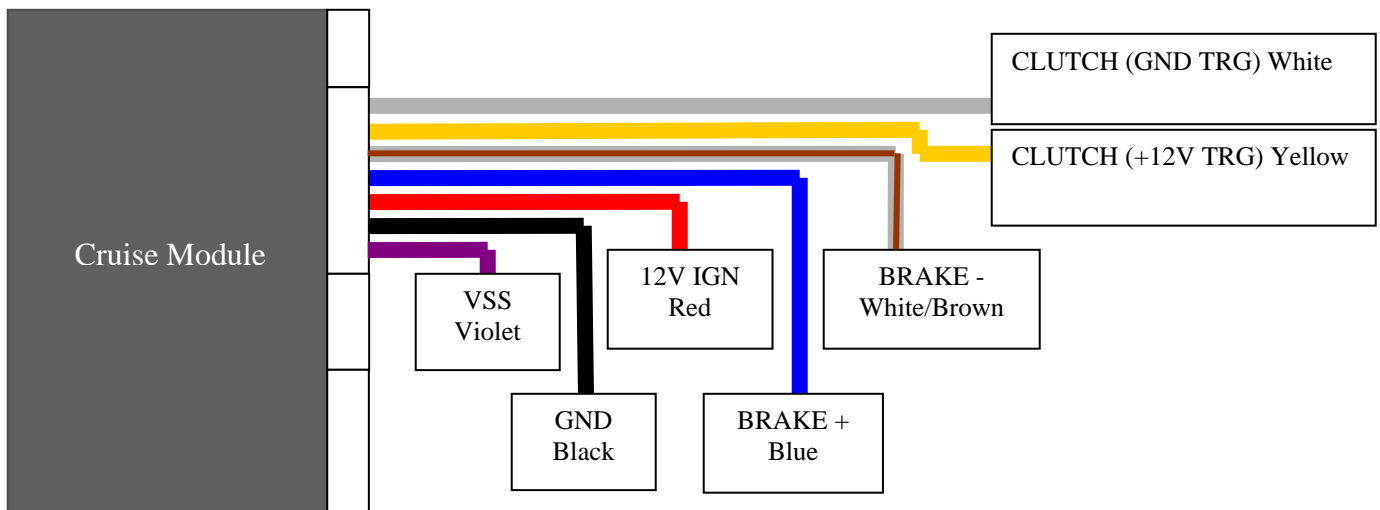


Figure 5

D. Wiring Connections (See Wiring Harness Description on last page)

1. Use the following wiring diagram as a reference to make the following connections to vehicle



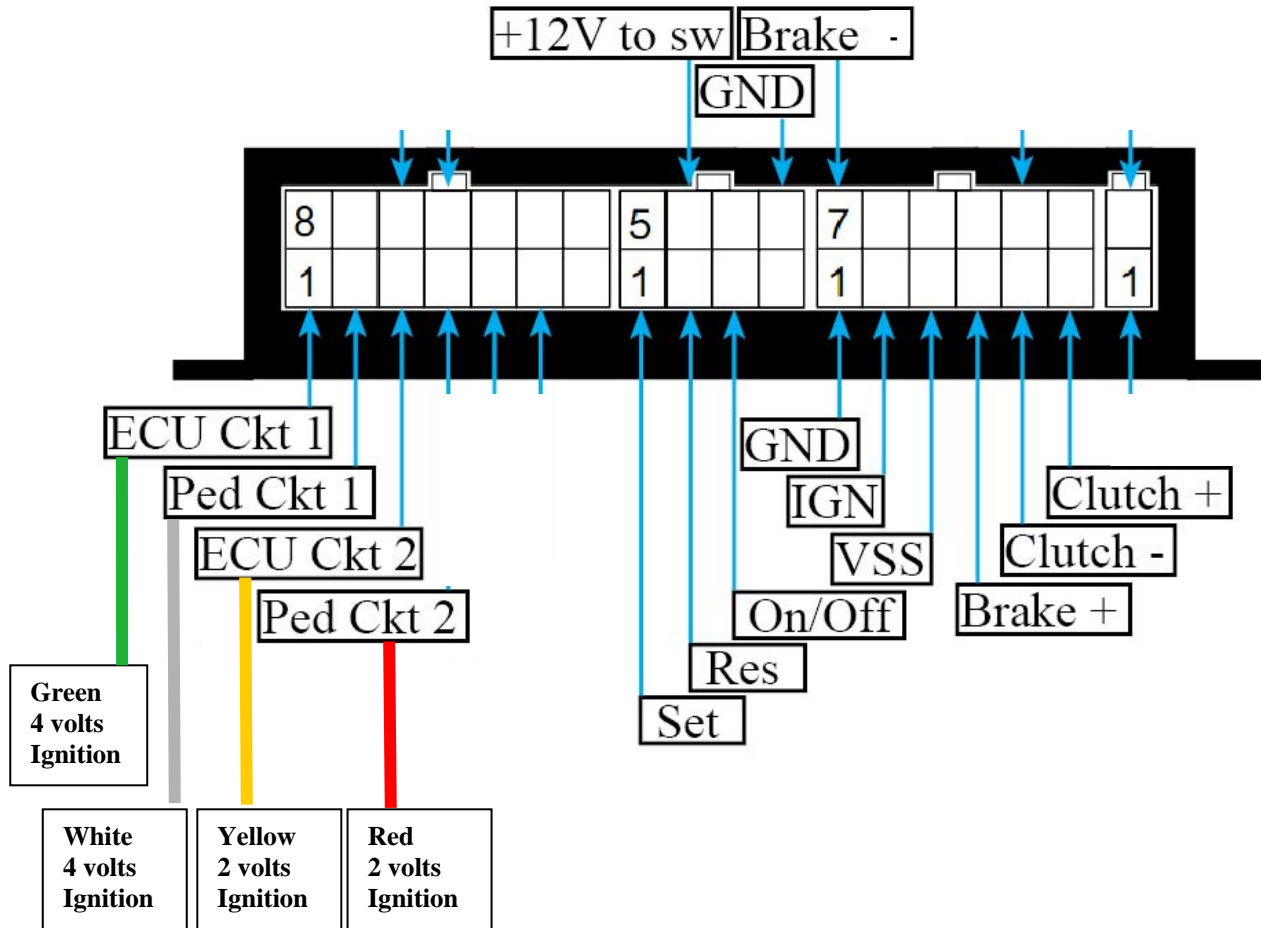
2. Connect the Main Harness to vehicle wire by using the chart below.

Function	Cruise Harness Color	
IGN	RED	+12V when switched on and +0V when Switched off.
BRAKE +	BLUE	“Hot” side of brake switch. +12V all the Time.
BRAKE -	WHITE/BROWN	“Cold” side of Brake switch. Zero (0) resistance to ground when brake is not Pressed. +12V when brake is pressed.
VSS	VIOLET	ECM square wave signal 4000 PPM
Clutch (GND Triggered)	WHITE	Ground active wire at switch when clutch Is depressed.
Clutch (+12V Triggered)	YELLOW	+12V active wire at switch when clutch is Depressed.
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.

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

Section II - Wiring Diagram



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

TROUBLESHOOTING

Function	Color	Results	Fault Conditions
Ignition	Red	12 volts when switched on and zero (0) volts when switched off. Must not disappear when starting 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. 12 volts 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. 12 volts 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.
VSS	Violet	Vehicle speed sensor circuit	Cruise will not function if this connection is not installed correctly.
Clutch or NSS	White	12 volts active or ground active wire at switch when clutch is depressed or neutral safety switch is engaged.	Cruise will not function if wrong wire is connected. Cruise will not disengage when clutch is depressed or when switched to neutral if installed incorrectly.

5 Terminal Relay for Brake Switch

