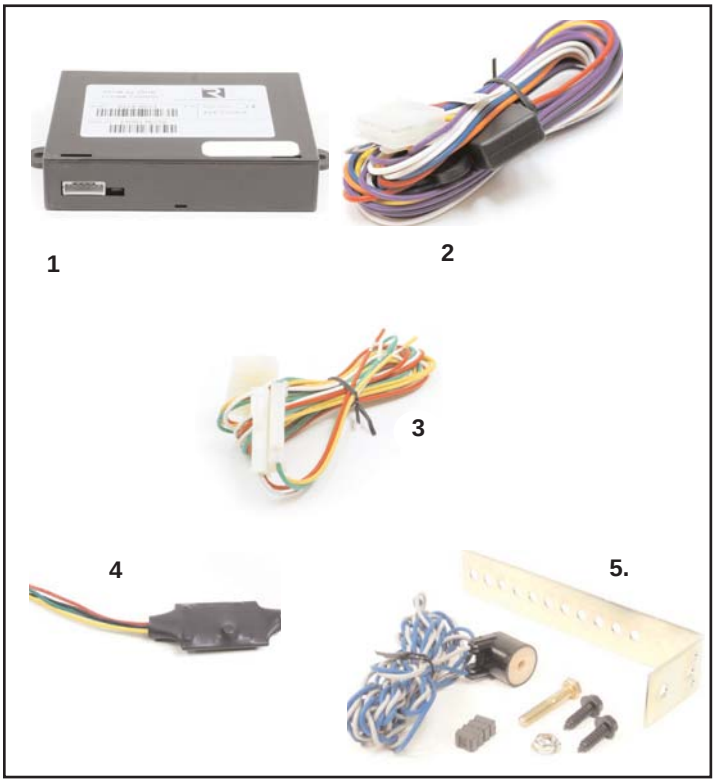
# PART NUMBER: 250-1882

## GENERAL APPLICABILITY

THIS CRUISE WAS TESTED AND VERIFIED ON:

## KIT CONTENTS/SERVICE PARTS

| ITEM | QTY | DESCRIPTION | PART# |
|---|---|---|---|
| 1 | 1 | CRUISE CONTROL MODULE | 250-2763 |
| 2 | 1 | MAIN WIRING HARNESS | 250-2838 |
| 3 | 1 | PEDAL INTERFACE HARNESS | 250-2761 |
| 4 | 1 | PULSE DIVIDER | 250-4369 |
| 5. | 1 | MAGNET PACKAGE | 250-4165 |




## RECOMMENDED TOOLS

| | |
|---|---|
| **PERSONAL & VEHICLE PROTECTION** | |
| SAFETY GLASSES | |
| | |
| | |
| **SPECIAL TOOLS** | |
| VOLT-OHM METER | |
| **INSTALLATION TOOLS** | |
| TRIM REMOVAL TOOL | |
| SOLDERING TOOL | |
| | |
| | |
| | |
| **SPECIAL CHEMICALS** | |
| | |
| | |

## CONFLICTS

**NOTE:**

## 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.

**TOOLS & EQUIPMENT:** THIS CALLS OUT THE SPECIFIC TOOLS AND EQUIPMENT REQUIRED FOR THE PROCESS.

**REVISION MARK:** THIS MARK HIGHLIGHTS A CHANGE IN INSTALLATION WITH RESPECT TO PREVIOUS ISSUE.

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

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.**

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

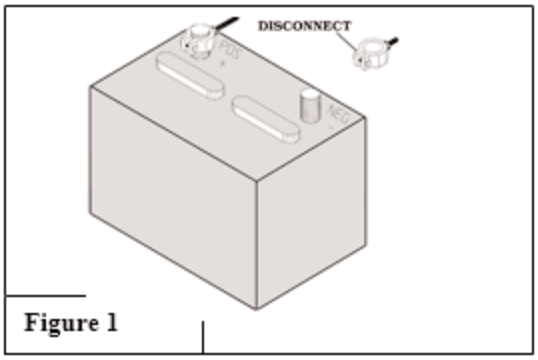



**Figure 1**

### 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**

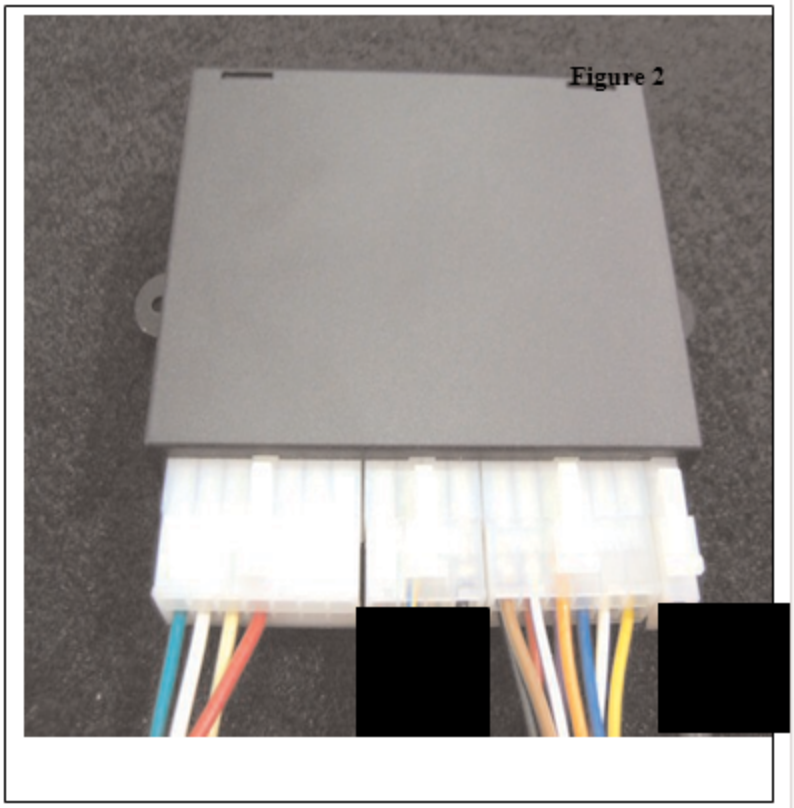


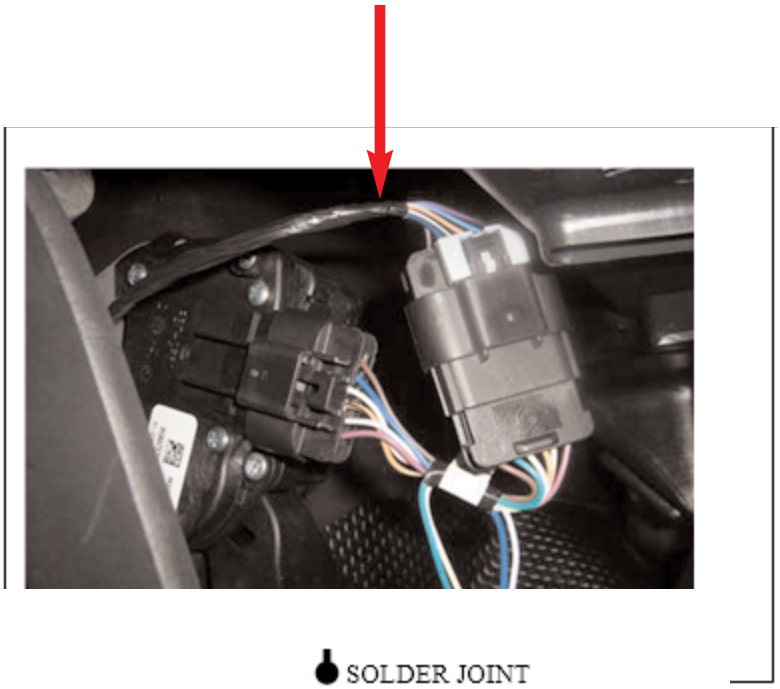
**Figure 2**

NOTE: If Customer purchased the MATING/PLUG & PLAY harness for the vehicles accelerator pedal place inlne or in series with accelerator as shown below. No cutting or soldering will be requied in accelerator pedal connection.
If harness is not available contine to follow the cut and solder instructures below.

## 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.**



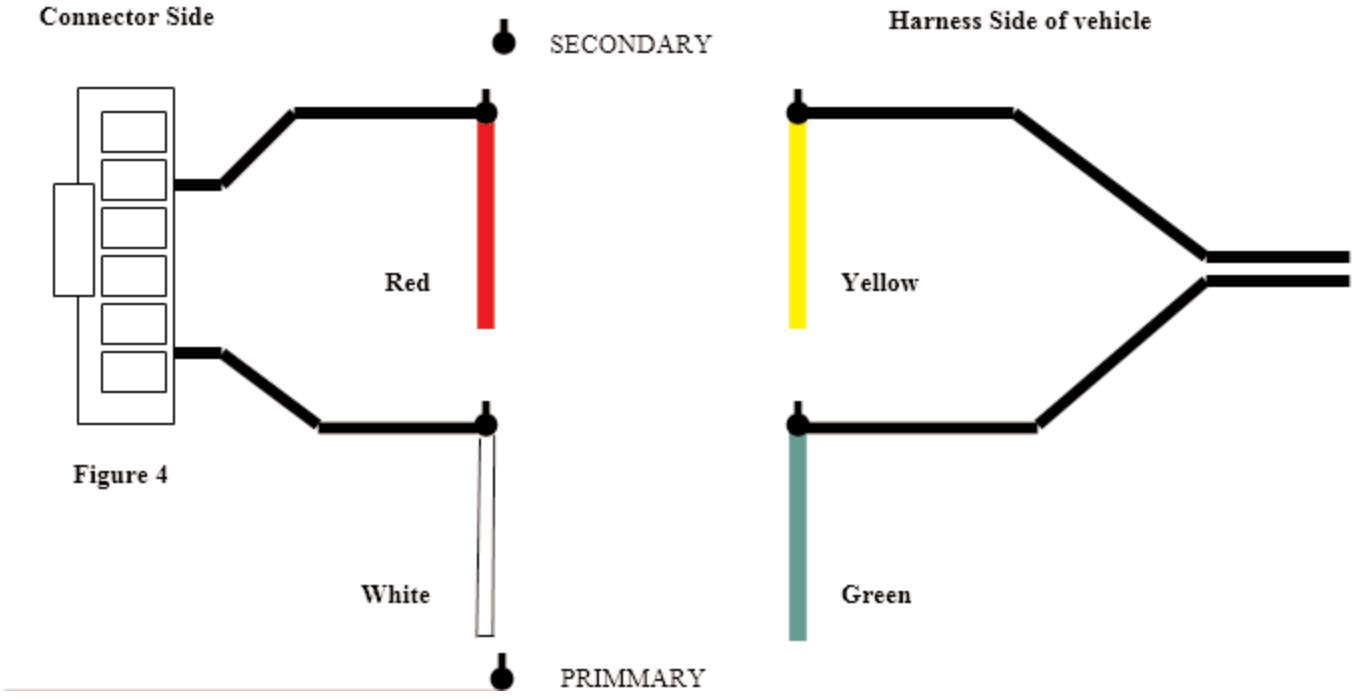
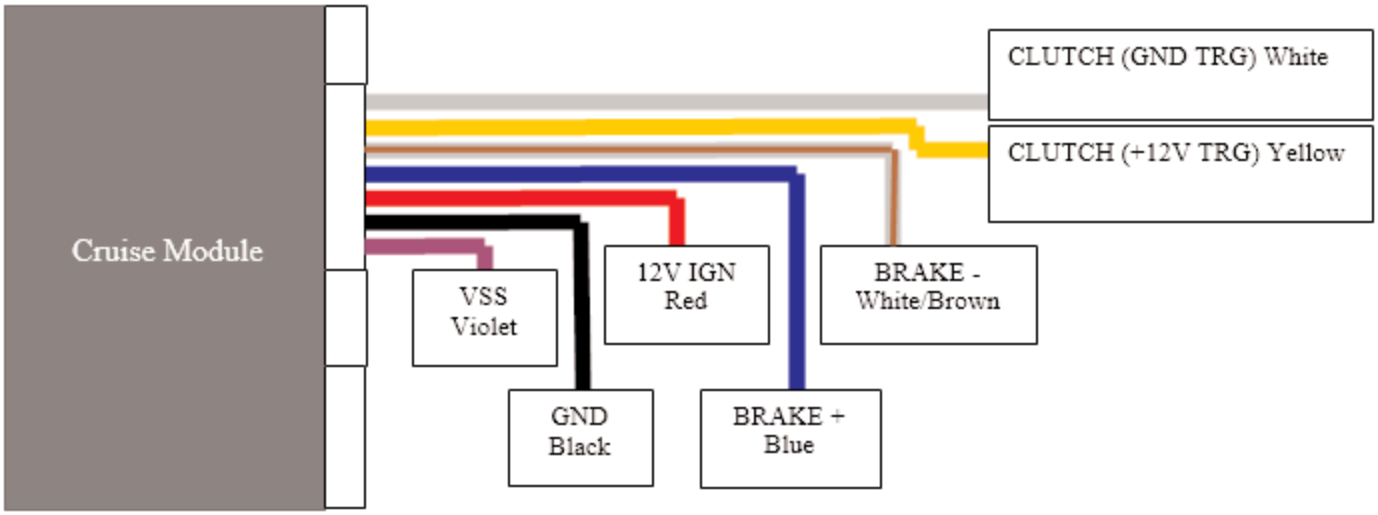




Figure 4




| 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. |

1. Mount 2 magnets on the driveshaft 180 degrees apart using epoxy in cruise package.

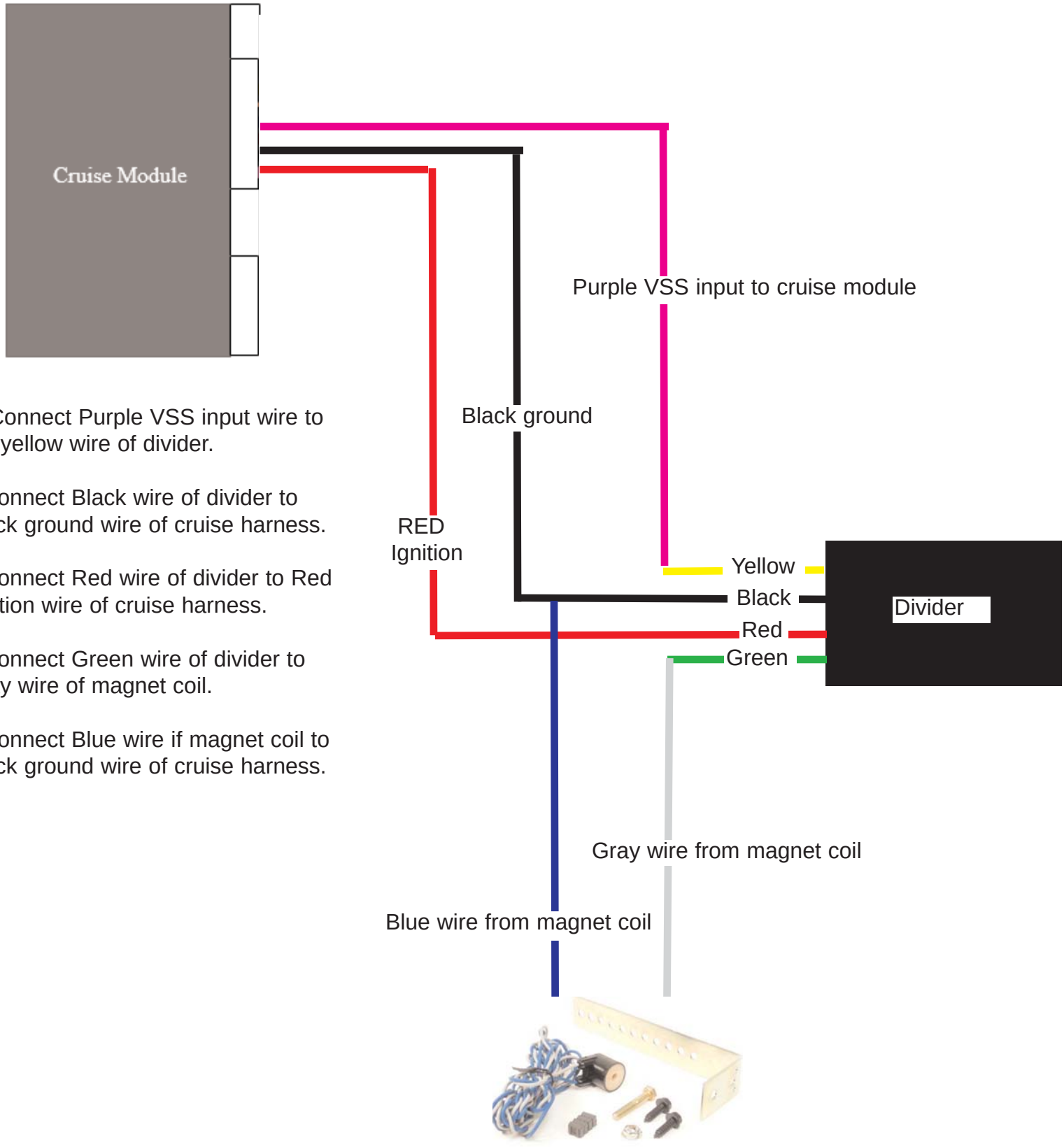
2. Place tie strap around drive shaft over magnets from cruise pack

3. Using flat head screw driver and pliers crip down tie strap to secrue magnets

4.Position the pickup coil face between 1/2” to 1” away from the magnets on drive shaft staying directly inline with magnets

5.secure magnet coil bracket with supplied self tapping screws in kit.

6. Finished Assembly




1. Connect Purple VSS input wire to the yellow wire of divider.

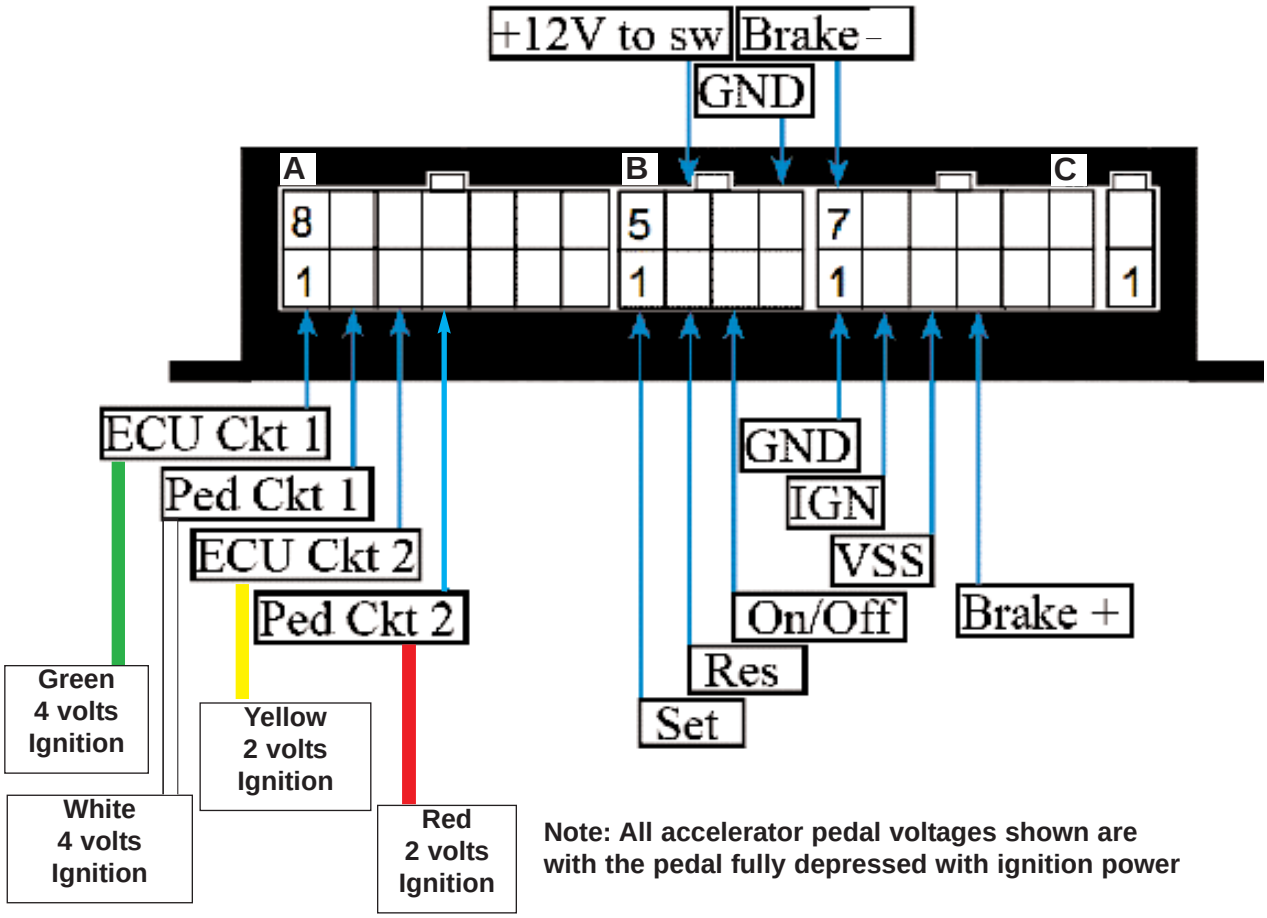
2.Connect Black wire of divider to Black ground wire of cruise harness.

3.Connect Red wire of divider to Red Ignition wire of cruise harness.

4.Connect Green wire of divider to Gray wire of magnet coil.

5.Connect Blue wire if magnet coil to Black ground wire of cruise harness.

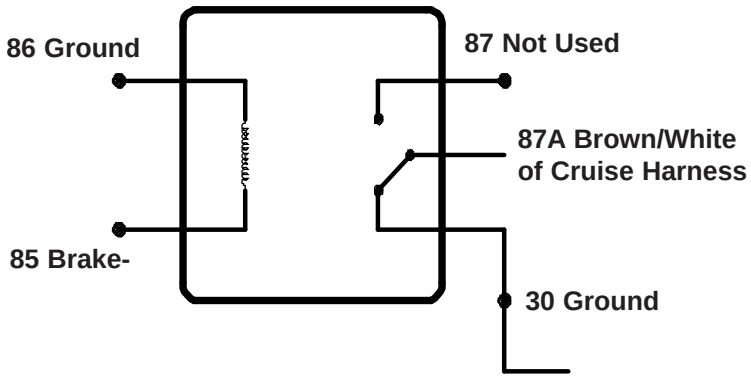
## TROUBLESHOOTING




**Note: All accelerator pedal voltages shown are with the pedal fully depressed with ignition power**

| PIN | COLOR | DESIRED RESULTS | FAULT CONDITION |
|---|---|---|---|
| 2C | RED | (IGN) +12V WHEN SWITCHED ON AND +OV 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. |
| 4C | BLUE | "HOT SIDE OF BRAKE SWITCH. +12V ALL THE TIME. | CRUISE WILL NOT FUNCTION IF THIS CONNECTION IS NOT INSTALLED CORRECTLY. |
| 7C | 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 ON NEXT PAGE. |
| 3C | PURPLE | (VSS) VEHICLE SPEED SENSOR CIRCUIT | CRUISE WILL NOT FUNCTION IF THIS CONNECTION IS NOT INSTALLED CORRECTLY. CRUISE WILL ACCELERATE IF THERE IS AN INTERMITTENT CONNECTION. |
| 1C | BLACK | LOWEST RESISTANCE TO GROUND AND 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. |
| 1B | GREEN | SET/COAST: 12V PRESS AND HOLD SET | CRUISE WILL NOT SET IF THIS CONNECTION IS NOT INSTALLED CORRECTLY. |
| 2B | YELLOW | RESUME/ACCEL: 12V PRESS AND HOLD RESUME | CRUISE WILL NOT RESUME OR ACCEL IF THIS CONNECTION IS NOT INSTALLED CORRECTLY. |
| 3B | BROWN | ON/OFF: 12V PRESS ON | CRUISE WILL NOT SET IF THIS CONNECTION IS NOT INSTALLED CORRECTLY. |
| 6B<br>8B | RED AND BLUE<br>BLACK | 12V<br>(0) OHMS RESISTANCE TO GROUND | CRUISE LIGHT WILL NOT COME ON IF THESE CONNECTIONS ARE NOT INSTALLED CORRECTLY. |

5 TERMINAL RELAY FOR BRAKE SWITCH IF NEEDED



NOTES:


Rostra
Precision
Controls, Inc.