This Cruise Control Kit is a microprocessor based Cruise Control. It is designed for ease of installation and can be used with most cars, light trucks and vans. Carefully follow the installation procedures in this manual for best results.

**DO NOT INSTALL THIS SYSTEM ON A DIESEL POWERED VEHICLE WHICH HAS A MANUAL TRANSMISSION WITHOUT A DISENGAGEMENT SWITCH (250-4206) ON THE CLUTCH PEDAL ASSEMBLY**

Your vehicle must have a VSS (Vehicle Speed Sensor) wire or an available signal generator for installation of this Cruise Control. Please consult vendor's Application Guide.

All through the instructions there are WARNINGS, CAUTIONS, AND NOTES that are meant to make it easier for you to put the Cruise Control on your vehicle and safer to use. We have gathered these tips from people across the country who have told us about their problems and how they worked them out. Even with all these reports from the field, we cannot cover every condition which you might encounter, there are just too many different vehicle makes and models. We do our best to tell you how to handle most vehicles, but we must Depend On Your Good Judgment for dealing with the rest.

Therefore, we believe you can understand why we strongly urge you to think carefully about what could happen to you, your passengers, and your vehicle if you use any tools, parts, fastening methods, routing or procedures which are not described in this manual.

There is NO drain on the battery if the control switch is left on. The Cruise Control needs no regular service.

---

**WARNING:**

Failure to follow the instruction manual could not only cause the Cruise Control to work improperly, but could cause the Cruise Control to function incorrectly, possibly causing damage to your vehicle and/or injury or death to both you and your passengers.

**WARNING:**

If you question the applications of the Cruise Control, please consult the applicable application guide. Only install on approved applications.

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ROSTRA PRECISION CONTROLS, INC.

ROSTRA PRECISION CONTROLS, INC. 1995

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<td>15</td>
<td>250-3425</td>
</tr>
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</table>

Disengagement Switch use 250-4206

*Order Small Parts Package 250-3708 and receive parts indicated.
1. Before Starting Installation:
Familiarize yourself with the Installation Instructions and Cruise Control’s components.

2. Air Bag and Anti-Theft Radio:
A. If vehicle is equipped with an ANTI-THEFT RADIO, the radio code must be written down prior to disconnecting battery cable. The code must be re-entered when the negative battery cable is reinstalled.
B. If vehicle is equipped with an AIR BAG, it is advisable to disconnect negative battery cable. However, remember that some vehicles retain power to the air bag system when battery is disconnected.

3. Removal of Negative Battery Cable:
Remove the negative battery cable before installing the Cruise Control components for safety precaution. (Figure A)

4. Self Stripping Connector:
When installing Self Stripping Connector, follow these four steps: (Figure B)

5. Accessory Power:
When installing the special terminal into fuse panel of vehicle, See (Figure C).

WARNING: Failure to follow the instruction manual could not only cause the Cruise Control to work improperly, but could cause the throttle to hang up, possibly causing damage to your vehicle and injury to you and your passengers.
The **Actuator Assembly** must be **programmed** for the vehicle on which it is installed. The TEN (10) programming switches must be set according to the chart below in order for the Cruise Control to operate properly.

**NOTE 1:** Both the Gray (VSS) and the Blue (TACH) wires must be connected. (If the Gray wire is not used, an auxiliary road speed source must be used.) See **Form #2482 Vehicle Technical Information Guide** (supplied in kit) for VSS and TACH wire information.

**NOTE 2:** If using an "OPEN CIRCUIT" control switch with the Cruise Control, SWITCH NUMBER 7 will have to be **OFF**. If unsure whether control switch is “OPEN CIRCUIT” or “CLOSED CIRCUIT”, look at label of box in which the control switch was packaged.

**NOTE 3:** IF ANY OF THE 10 SWITCHES NEED TO BE CHANGED AFTER INSTALLATION OF THE CRUISE CONTROL, CONTROL SWITCH AND THE VEHICLE IGNITION SWITCH MUST BE IN THE OFF POSITION. THIS IS TO ALLOW THE CRUISE CONTROL TO RESET.

---

**PROGRAMMING SWITCHES**

<table>
<thead>
<tr>
<th>PROGRAMMING SWITCHES</th>
<th>FUNCTIONS</th>
</tr>
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<tbody>
<tr>
<td><strong>GAIN (SENSITIVITY)</strong></td>
<td>High</td>
</tr>
<tr>
<td>SWITCH 1</td>
<td>ON</td>
</tr>
<tr>
<td>SWITCH 2</td>
<td>ON</td>
</tr>
</tbody>
</table>
| **Note:** If your Cruise Control surges or is too sensitive - set Gain to Low.  
**Note:** If your Cruise Control seems slow in controlling or responding to set speed - set Gain to High. |
| **PULSES PER MILE** | 2000 | 4000 | 5000 | 8000 |
| SWITCH 3 | ON | OFF | ON | OFF |
| SWITCH 4 | ON | ON | OFF | OFF |
| **ENGINE** | 3 & 4 Cylinder | 5 & 6 Cylinder | 8 Cylinder |
| SWITCH 5 | ON | OFF | OFF |
| SWITCH 6 | OFF | ON | OFF |
| **CONTROL SWITCH** | OFF: Open Circuit Control Switch  
SWITCH 7 | ON: Closed Circuit Control Switch  
NOTE: If unsure of Control Switch, see Control Switch test or label on box |
| **CENTERING** | OFF: Low (Slow Pull-up ) | (Normal) |
| SWITCH 8 | ON: High (Fast Pull-up)  
**NOTE:** If your Cruise Control drops 1 mph or more when setting, then set Centering to High. |
| **TRANSMISSION** | OFF: Manual Transmission  
SWITCH 9 | ON: Automatic Transmission |
| **VSS SOURCE** | OFF: Vehicles using Auxiliary VSS (Signal Generator or Magnets) and Ford Vehicles  
SWITCH 10 | ON: Vehicle's Own VSS (ECM) |

---

Form #2784, Page 7
ACTUATOR ASSEMBLY MOUNTING

1. **NOTE:** DO NOT MOUNT ACTUATOR ASSEMBLY IN THE FOLLOWING AREAS:
   a. Under the fender
   b. Under the vehicle
   c. Directly to the engine
   d. With cable pointed down
   e. Near sharp, hot or moving objects
   f. Near ignition coil (No closer than 10”)
   g. In the passenger compartment (noise)
   h. Where it will interfere with service checks

2. Install the **Extension Bracket** on the back of the **Actuator Assembly** with the two (2) **Bolts** provided.  **(Figure 2)**

   **NOTE: DO NOT OVERTIGHTEN!** Damage to the Actuator Assembly will occur if bolts are overtightened.

3. When you have selected a possible location, set the **Actuator Assembly** unmounted in that area. The reason for leaving the **Actuator Assembly** unmounted is to make sure the **Harness Assembly** will reach the **Actuator Assembly** and the **Cable Assembly** will reach the throttle attaching point.

4. Once you have confirmed that the **Harness Assembly** and the **Cable Assembly** will reach their respective locations, mount the **Actuator Assembly** in the spot you have selected with **Screws** provided in the kit. **(Figure 3)**

---

**CAUTION:**
Failure to follow the instruction manual could not only cause the Cruise Control to work improperly, but could cause the throttle to hang up, possibly causing damage to your vehicle and injury to you and your passengers.
MEASURING THROTTLE TRAVEL

This is a very important step. Failure to determine Throttle Travel could cause damage to your vehicle and/or Cruise Control System.

Measure only with engine OFF. The Actuator Assembly Cable moves 1-5/8” (41 millimeters).

To measure throttle travel, measure the distance from position "A" (Idle) to position "B" (Wide Open Throttle).

1. Make a mark on the throttle cable when the throttle is in the idle position. (Figure 4)
2. Depress accelerator pedal and make a mark on the throttle cable when the throttle is in the wide open position. (Figure 5)
3. Measure the distance between the two marks. (Figure 6) If distance is greater than 1-5/8” (41 millimeters), go to the next page. If it is less, go to Step D.
4. If the throttle travel is less than 1-5/8” (41 millimeters), you must use Bead Chain to provide slack. NOTE: Slack is the distance the Cable Assembly moves before the throttle starts to move. Each bead of the chain added will give you 1/8” (3 millimeters) of slack. (Example: If your throttle travels 1-1/2” (38 millimeters), you will need one (1) bead). NOTE: To add beads you must use the Bead Chain, Bead Chain Connector and the Bead Chain Cover. Do not count the bead used with the Bead Chain Connector.

After determining your throttle travel, continue to the next section.

CAUTION:
Failure to follow the instruction manual could not only cause the Cruise Control to work improperly, but could cause the throttle to hang up, possibly causing damage to your vehicle and injury to you and your passengers.
ATTACHING CABLE ASSEMBLY TO THROTTLE

This section will cover the proper ways to use the hardware available. Each section contains sample illustrations showing how the connector is used in an actual installation. It must be noted however, that you should have an understanding of how each attachment method works so that a proper installation is achieved.

There are five (5) different types of throttle connections.
A. Pulley Assembly using Loop Cable
B. Pulley Assembly using T-Bar Adapter
C. Pedal Attachment
D. Ford Throttle
E. General Motors and Chrysler Throttle using Three Bead Connector

NOTE:
When using the Bead Chain Connector to connect the Bead Chain to the Cable Assembly you must always use the Bead Chain Cover. (Figure 7)
Failure to use the Bead Chain Cover could possibly cause the Bead Chain or the Cable Assembly to hang in the Bead Chain Connector causing the throttle to be held in a partially open position. This condition could occur when the Cruise Control is not being used.

A. Pulley Assembly Using the LOOP CABLE

1. On some vehicles it may be necessary to remove the air cleaner so the throttle pulley segment is showing.
2. Set the pulley segment in an OPEN throttle position, and remove the throttle cable from the pulley.
3. Hold the Loop Cable between the holes in each side of the pulley. Slide the barrel at the end of the throttle cable through the slotted hole, then through the Loop Cable and into the second hole. (Figure 8)
4. Connect the Loop Cable to the Cable Assembly using the Bead Chain Connector.
   NOTE: Use the Bead Chain Cover.
5. To secure the Loop Cable to the throttle cable, punch a small hole in the Bead Chain Cover and slide the 4" Tie Strap through the hole and secure to the existing throttle cable. (Figure 9)

WARNING
If the Loop Cable is not secured to the existing throttle cable, it could come out of the pulley segment possibly causing the throttle to be held in a partially open position.
ATTACHING CABLE ASSEMBLY TO THROTTLE (continued)

B. Pulley Assembly (Dual) Using the T-BAR ADAPTER

1. Remove air cleaner to expose the dual pulley segments.
2. Find the blank anchor that is located above the throttle anchor. Follow the instructions in STEP B for Anchoring Cruise Cable -- page 15.
3. Attach a Bead Chain Connector onto the Cable Assembly. (Figure 10)
4. Attach the T-Bar Adapter to the top pulley segment. Slide the Bead Chain Cover onto the T-Bar Adapter.
5. Attach the T-Bar Adapter to the Bead Chain Connector. Make sure to slide the Bead Chain Cover over Bead Chain Connector. (Figure 11)

C. Pedal Attachment

1. Select a Tube Clamp that fits around the top of the accelerator pedal shaft. Make sure the tabs of the Tube Clamp point away from the bulkhead.
2. Attach the Bead Chain to the Cable Assembly with a Bead Chain Connector. Make sure to use a Bead Chain Cover.
3. After you determine the length of Bead Chain needed to attach to the accelerator pedal shaft, cut Bead Chain and attach to the Eyelet Connector. Make sure to use a Bead Chain Cover.
4. Put Screw #10-32 x 1/2 through the holes in the Tube Clamp. Slide the Eyelet Connector over the Screw. Thread Nut #10-32 onto the Screw and tighten. (Figure 12)

**WARNING**

Failure to follow the instruction manual could not only cause the Cruise Control to work improperly, but could cause the throttle to hang up, possibly causing damage to your vehicle and injury and/or death to you and your passengers.
ATTACHING CABLE ASSEMBLY TO THROTTLE (continued)

D. Ford Throttle

1. Select a Tube Clamp that fits the throttle cable. Make sure the tabs of the Tube Clamp point away from the carburetor or air throttle, this will prevent the throttle from hanging. (Figure 13)

2. Attach Cable Assembly to the Eyelet Connector. NOTE: Use the Bead Chain Cover.

3. Put Screw #10-32 x 1/2 through the holes in the Tube Clamp. Slide the Eyelet Connector over the Screw. Thread Nut #10-32 onto the Screw and tighten. (Figure 13)

4. Figure 14 is an example of a Ford Throttle connection using the Tube Clamp.

E. General Motors and Chrysler Throttle

Using THREE BEAD CONNECTOR

1. Most General Motors vehicles and many Chrysler vehicles can use the Three Bead Connector to attach the Cable Assembly. (Figure 15)
ATTACHING CABLE ASSEMBLY TO THROTTLE (continued)

**E. General Motors and Chrysler Throttle using THREE BEAD CONNECTOR**

2. Attach the Bead Chain to the Three Bead Connector. Secure beads by folding the metal tabs. (Figure 16)

3. Remove clip or pin which retains throttle cable (and washer if provided) and install Three Bead Connector on the same side of throttle cable as the Cable Assembly will be anchored (this is necessary so that Cable Assembly and throttle cable will not cross).

4. The Three Bead may need to be bent so that it clears the throttle cable. (Figure 17) Also, the 4” Tie Strap can be used to hold the Three Bead Connector to the sleeve of the throttle cable. (Figure 17)

5. When the Three Bead Connector is properly used, the following parts will be used: Three Bead Connector, Bead Chain Cover Bead Chain Connector, and Bead Chain (Figure 18)

NOTE: After the Cable Assembly has been attached, manually move the throttle to assure the Cable Assembly does not hang up on any part of the vehicle.

**WARNING**

Failure to follow the instruction manual could cause the Cruise Control to work improperly, possibly causing damage to your vehicle and injury or death to you and your passengers.
Anchoring Cable Assembly

There are three (3) types of connectors used to anchor the Cable Assembly:

A. Snap-In Adapter
B. General Motors Blank Anchor
C. Threaded Tube Clamp

A. Snap-In Adapter
1. Before using the Snap-In Adapter, remove the Adjustable Sleeve from the Cable Assembly. To use the Snap-In Adapter, it will be necessary to form threads on the end of the Cable Assembly. This is easily accomplished by placing the 1/4” - 20 Nut on the end of the Cable Assembly with your fingers. Then use a 7/16” box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19)

2. After the threads have been formed, screw the Snap-In Adapter on to the Cable Assembly. (Figure 20)

NOTE: Cable Assembly must extend past the end of the Snap-In Adapter on all applications.

3. The Snap-In Adapter snaps into the square hole of the Extension Bracket (Figure 21) or snaps into an existing square hole on the vehicle -- common on GM vehicles. (Figure 22)
Anchoring Cable Assembly (Continued)

B. General Motors Blank Anchor

1. To locate the blank anchor on General Motors vehicles, it is necessary to remove the air cleaner. The blank anchor is located above the throttle anchor.

2. This anchor is hollow except at one end. Use a 1/4” bit and drill as shown in Figure 23.

3. Before using the 1/4”-20 Nut, remove the Adjustable Sleeve from the Cable Assembly. Then use the 1/4”-20 Nut to form threads on the end of the Cable Assembly. This is easily accomplished by first placing the 1/4” - 20 Nut on the end of the Cable Assembly with your fingers and then use a 7/16” box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19, page 14)

4. Insert the Cable Assembly through the blank anchor and thread the other 1/4” - 20 Nut in place. (Figure 24)

NOTE: If you do not use the other 1/4” - 20 Nut, install a Tube Clamp and the Threaded Tube Clamp 6” to 7” from the anchor point. (Figure 25) This will keep the Cable Assembly from backing out of the anchor.

5. The 1/4” - 20 Nut can also be used if there is a pre-existing 1/4” hole in a bracket on the vehicle or if it is possible to drill a 1/4” hole in a bracket on the vehicle. (Figure 26)

WARNING
Failure to follow the instruction manual could cause the Cruise Control to work improperly, possibly causing damage to your vehicle and injury or death to you and your passengers.
Anchoring Cable Assembly (Continued)

CAUTION: When using the Threaded Tube Clamp on the Cable Assembly the Adjustable Sleeve MUST be removed. When using a Tube Clamp on the Cable Assembly the Adjustable Sleeve MUST be used to prevent slippage or binding of cable.

C. Threaded Tube Clamp

1. Before using the Threaded Tube Clamp remove the Adjustable Sleeve from the Cable Assembly. To use Threaded Tube Clamp, it will be necessary to form threads on the end of the Cable Assembly. This is easily accomplished by first placing the 1/4” - 20 Nut on the end of the Cable Assembly with your fingers and then use a 7/16” box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19, page 14)

2. After the threads have been formed, screw the Threaded Tube Clamp onto the Cable Assembly. (Figure 27)

3. The Threaded Tube Clamp may be used to anchor the Cable Assembly to the existing throttle cable bracket. (Figure 28) In some cases there is an existing hole, in other cases you can drill a 3/16” hole in the bracket.

4. The Threaded Tube Clamp may also be used to anchor the Cruise Cable using the Extension Bracket. (Figure 29)

WARNING
Failure to follow the instruction manual could cause the Cruise Control to work improperly, possibly causing damage to your vehicle and injury or death to you and your passengers.
Harness Assembly

1. Push Rubber Cover Grommet securely into place on the cover of the Actuator Assembly. (Figure 30)

2. Straighten the Harness Assembly and find the 4 pin mating connectors. Separate the 4 pin connectors. A small screwdriver may be needed.

3. Harness Assembly needs a 3/4" hole to pass through bulkhead. You may find one nearby such as the speedometer cable hole or a small one you can file larger. If you find the right size hole in the right place, remove rubber grommet. If not, drill, saw, or punch a 3/4" hole in bulkhead. A hole a couple of inches to the left or slightly higher than the steering column is usually a good place. (Figure 31)

NOTE: Check inside before drilling, sawing, or filing so you don’t damage anything.

4. From engine side, pass four pin connector and VIOLET wire through hole. If you did not hook up the BLUE TACH wire and GRAY VSS wire under the hood, pass them through to the inside also.

5. Reattach 4 pin mating connectors and make necessary wire connections. (See page 18)

Sealing Bulkhead

Seal hole in bulkhead with Sealing Putty as shown in Figure 32.

WARNING

Failure to follow the instruction manual could cause the Cruise Control to work improperly, possibly causing damage to your vehicle and injury or death to you and your passengers.
Cruise Control Switch Installation

If your Cruise Control switch is the type which clamps on the turn signal lever, requires cutting the turn signal lever, or is mounted on the instrument panel, follow instructions packaged with it. If you have a switch which replaces the complete original equipment turn signal lever, remove the existing lever and install the Cruise Control switch and lever assembly as instructed in the vehicle shop service manual.

**CAUTION:**
If a two way radio is in the vehicle or is later installed, the Actuator Assembly should be located as far from the radio transceiver as practical (at least 3") and the Harness Assembly should be routed as far from the radio wires and coaxial cable as practical. The radio should be wired directly to a battery ground connection and the standing wave ratio of the antenna should be as low as possible.

**WIRING ATTACHMENTS TO VEHICLE**

To find a place to get electrical power you will need to "ground" one lead of your test light or volt-ohm meter. Find electrical ground by turning on the ignition switch and touching one lead to a hot fused terminal at fuse panel; touch other lead to unpainted metal part of vehicle. The metal you touch, if it makes continuity, is ground. Bracket for parking brake lever is usually a good ground. Turn ignition switch off.

**NOTE:** Some fuse panels are behind shields which must be removed first. On other vehicles the screw that mounts the panel must be removed to get to the fuses.

**CAUTION:**
Before making any wiring connections, be sure to disconnect your vehicle's negative battery cable to avoid electric shock and/or damage to the vehicle's electrical system.

<table>
<thead>
<tr>
<th>WIRE COLOR</th>
<th>FUNCTION</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>GROUND</td>
<td>Vehicle ground point which is a clean unpainted metal surface <strong>NOTE:</strong> DO NOT USE THE ENGINE AS A GROUNDING POINT. DO NOT CONNECT TO THE EXTENSION BRACKET</td>
</tr>
<tr>
<td>BROWN</td>
<td>ACCESSORY POWER</td>
<td>Fuse panel: fuse that has +12 volts when key is ON and 0 volts when key is OFF or in the START (CRANK) position.</td>
</tr>
<tr>
<td>RED</td>
<td>CONSTANT POWER</td>
<td>Hot side of brake switch - +12 volts</td>
</tr>
<tr>
<td>VIOLET</td>
<td>GROUND</td>
<td>Cold side of brake switch - 0 resistance when brake is not pressed, +12 volts or open resistance when brake is pressed.</td>
</tr>
<tr>
<td>BLUE</td>
<td>TACHOMETER</td>
<td>See Vehicle Technical Information Guide (Form #2482) or consult Vehicle Shop Manual</td>
</tr>
<tr>
<td>GRAY</td>
<td>VEHICLE SPEED SENSOR</td>
<td>See Vehicle Technical Information Guide (Form #2482) or consult Vehicle Shop Manual</td>
</tr>
</tbody>
</table>
SELF DIAGNOSTICS PROCEDURES

Entering Diagnostics Mode:

1. Turn the **Cruise Control Switch** to the **OFF** position
2. Turn the ignition switch to the **OFF** position
3. Press and hold the **RESUME/ACCEL** slide switch while you turn the ignition switch to the **ON** position **without starting the engine**. Now release the **RESUME/ACCEL** slide switch. (If you are using a 250-3592, 250-3593, 250-3742 or 250-3743 **Cruise Control Switch**, turn the ignition switch to the **ON** position **without starting the engine**, hold the **RESUME/ACCEL** button down while you turn the **Cruise Control Switch** to the **ON** position.)
4. The Diagnostics LED should be off at this time.

Testing the **Cruise Control Switch**, **Brake Switch Wiring**, and **Vehicle Speed Sensor (VSS)** Signal:

- **IF NOT**
  - Check steps to entering diagnostics mode and try again
- **IF YES**
  - Press and release **SET/COAST** button. LED should light each time button is pressed and go out when it is released.
  - **IF NOT**
    - Check steps to entering diagnostic mode and try again
  
- **IF YES**
  - Press and release the **RESUME/ACCEL** switch. LED should light each time the switch is pressed and to out when it is released.
  - **IF NOT**
    - Check programming switch #7: OFF: Normally OPEN switch
      ON: Normally CLOSED switch
    - If set incorrectly, reset and re-enter diagnostic mode
    - Check power to **Actuator Assembly**, if none of the diagnostic commands are functioning
  
- **IF YES**
  - Press and release the **BRAKE**. LED should light each time BRAKE is pressed and go out when it is released.
  - **IF NOT**
    - Check steps to entering diagnostic mode and try again
  
- **IF YES**
  - Test **VEHICLE SPEED SENSOR** (VSS): A second person is required to check visual status of the LED. Push car at least three (3) feet forward or backward, LED should flash at least once.
  - **IF NOT**
    - Check steps to entering diagnostic mode and try again
    - Some vehicles need to be pushed more than three (3) feet
    - Connection to the Vehicle Speed Sensor is bad
    - The connection point for the Vehicle Speed Sensor is not correct
  
- **OR**
  - Test **AUXILIARY SPEED SENSOR** (Signal Generator): A second person is required to check visual status of the LED. One drive wheel needs to be jacked-up, take care to use a support stand for safety. Spin wheel by hand as fast as you can, LED should flash.
  - **IF NOT**
    - Check steps to entering diagnostic mode and try again
    - Check Programming Switch #10, it should be **OFF**
    - If switch is ON reset to **OFF** and re-enter diagnostic mode
    - You must spin the wheel at least 3 MPH or faster in order to test an auxiliary signal generator
Testing the TACH Signal

If all of the previous functions are correct, check the TACH Signal
1. Turn the Cruise Control Switch to the OFF position
2. Turn the ignition switch to the OFF position
3. Press and hold the RESUME/ACCEL slide switch while you turn the ignition switch to the ON position and start the engine. Now release the RESUME/ACCEL slide switch. (If you are using a 250-3592 or 250-3593 dash mount Cruise Control Switch, turn the ignition switch to the ON position and start the engine, hold the RESUME/ACCEL button own while you turn the Cruise Control Switch to the ON position.)
4. The Diagnostics LED should be flashing. Rev the engine, the LED should flash faster at higher RPM's.
   - Check steps to entering diagnostic mode and try again
   - Connection to TACH Signal source is bad
   - TACH Signal connection point is not correct

CONTROL SWITCH TESTS

You need to unplug the 8-pin connector from the Actuator Assembly for these tests.
To do the test:
1. Ground the test light lead and verify that the test light works by proving a known power source.
2. Follow the test chart below when testing a closed circuit Cruise Control Switch.

<table>
<thead>
<tr>
<th>IGNITION SWITCH POSITIONS</th>
<th>CONTROL SWITCH POSITIONS</th>
<th>RED</th>
<th>DARK GREEN</th>
<th>YELLOW</th>
<th>BROWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>press and hold SET/COAST</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>press and hold RESUME/ACCEL</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>CRANK or START</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

3. Follow the test chart below when testing an open circuit Cruise Control Switch.

<table>
<thead>
<tr>
<th>IGNITION SWITCH POSITIONS</th>
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<th>RED</th>
<th>DARK GREEN</th>
<th>YELLOW</th>
<th>BROWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
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<tr>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>press and hold SET/COAST</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
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<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

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In the event that you need technical assistance with trouble shooting, please have the following information ready when calling our Technical Service Department 910-277-1828. This information is important for a proper and speedy diagnosis of the problems encountered.

Model Number of Cruise Control System printed on box and manufacturers code printed on the Actuator Assembly

Vehicle Make Model and Year:

Engine and Transmission:

Ensure that the Brake Switch wiring connections are correct.
Red wire of Wiring Harness Assembly is connected to "HOT SIDE" (color):

Violet wire of Wiring Harness Assembly is connected to "COLD SIDE" (color):

Ensure that the Brown wire is connected to an "ignition power source"

Speed Signal Source:
VSS (Vehicle Speed Signal): Gray wire connection point and wire color:

Alternative Speed Signal Source (Part #)

Tachometer Signal: Blue wire connection point and color

Actuator Assembly programming switch settings:

1  2  3  4  5  6  7  8  9  10
ON
OFF

List the parts used for the throttle connection and cable anchoring. Refer to the Parts List and Parts Diagram on Pages 4-5.

_________________________________________________________________________________________

_________________________________________________________________________________________

_________________________________________________________________________________________

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Rostra Precision Controls, Inc. (The Company) warrants to the original retail purchaser of this Cruise Product that should this product or any part thereof, under normal use and conditions, be proven defective material or workmanship within 36 months or 36,000 miles of the original purchase, such defect(s) will be repaired or replaced (at the Company’s option) without charge for the parts.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the installing dealer and/or retailer.

This Warranty does not cover costs incurred for removal or reinstallation of the product, or damage to vehicle electrical systems.

This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HERE UNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

THE EXTENT OF THE COMPANY’S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY’S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**OWNER’S WARRANTY RECORD**

(To be completed by selling dealer and retained by customer)

Customer’s Name__________________________________________
Address____________________________________________________
Dealer Name________________________________________________
Dealer Address________________________________________________
City_________________________ State__________ Zip_______________
Date Purchased______________ Date Installed____________________
Make & Year of Car________________________ Mileage at Installation__________

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OPERATING PROCEDURES

ROAD TESTING
Be sure to road test your Cruise Control after installation. If your Cruise Control was installed correctly, it should perform as indicated in this section. The Cruise Control Switch is used to operate the system.

TEST DRIVE
Follow the operating instructions to test drive your new Cruise Control. Try all functions on your Cruise Control to be sure it is operating correctly.

ON/OFF: The first time you use the Cruise Control you should be on a straight, paved road away from heavy traffic. Slide the ON/OFF switch of the Cruise Control Switch to the ON position. Nothing will happen, this simply prepares the system for use.

Remember, each time you turn OFF the ignition switch, or slide the Cruise Control Switch to OFF, you de-energize the system.

To re-energize it, the ignition switch must be ON and the slide switch must be in the ON position. You can leave the Cruise Control Switch ON all the time without damaging the system.

SET SPEED: After turning the system ON, wait at least three seconds before trying to set your speed. To operate the system drive your car at a steady speed above 35 mph.

Press the SET/COAST button, and release it. Slowly remove your foot from the accelerator. Your speed is now in the Actuator Assembly’s memory. Your driving speed should remain within 2-1/2 mph of your set speed.

If you want to increase your speed, press the accelerator pedal. When you release the pedal, you will return to your SET SPEED.

ACCEL: You may increase your SET SPEED by using the RESUME/ACCEL feature. Your vehicle will accelerate as you hold the slide switch to the RESUME/ACCEL position. When you release the slide switch you will have a new, higher SET SPEED.

TAP-UP: You can also increase your speed gradually, by quickly sliding and releasing the RESUME/ACCEL switch. Each time you slide and release the slide switch, your speed will increase approximately one mph.

COAST: To reduce your SET SPEED, press and hold the SET/COAST button. This erases the old SET SPEED, and allows your vehicle to coast. Just before reaching the speed you want, release the button. This will be your new SET SPEED, providing you are above 35 mph.

TAP-DOWN: You can also decrease your speed gradually, by quickly pressing and releasing the SET/COAST button. Each time you press and release the button your speed will decrease approximately one mph.

RESUME: When you use the brake to slow down or stop, the Cruise Control will remember your SET SPEED. To return to the SET SPEED, you need to be above 30 mph and drive to a speed within 15 mph of your SET SPEED. Slide the RESUME/ACCEL slide switch, then release it. Your vehicle will automatically accelerate to the SET SPEED and hold there.

When using the RESUME feature with a standard transmission, you must be in the correct gear for your SET SPEED.

After braking, the RESUME feature will NOT work if you:
-Move the slide switch to OFF
-Turn OFF the ignition
If this happens, you need to SET SPEED again.

DISENGAGE: You may DISENGAGE from your SET SPEED in two or three ways depending on the type of transmission (manual or automatic) you have in your car.
-Gently depress the brake pedal to activate the brake lights
-Turn the Cruise Control Switch to the OFF position
-For manual transmissions, depress the clutch (This WILL cause the engine to rev before disengaging)

CAUTION: Do not use Speed Control on slippery roads or in heavy traffic.