

Dakota Digital

CRS-2000 AND CRS-3000

SUPPLEMENT TO WORLD CRUISE 2 OR GLOBAL CRUISE INSTALLATION MANUAL

This supplement provides some information and guidelines to help in the installation of this cruise control into street rods and custom vehicles.

Throttle connection:

The CRS-2000/3000 installation manual provides detailed diagrams for connecting the servo to the throttle on pages 7 - 13. These diagrams cover OEM factory throttle hook-ups. It may be necessary to use a slight variation of one of the diagrams with aftermarket carburetors.

Control switch:

There are various types of turn signal and dash mount control switches that are available. The type of control switch that we supply with the cruise control is a closed circuit type for a turn signal handle control and open circuit for dash mount switches. If you will be connecting to a factory GM 4 wire control switch, they are open circuit type. GM switches which do not have 4 wires are not compatible with this cruise control. Ford cruise control switches are not compatible with this cruise control.

Wiring:

The wiring diagram for the cruise control is located on page 1 of the CRS-2000/3000 Cruise installation manual. The wire connections that you will need to make into your vehicle are as follows:

- RED: Connect to constant 12 volt source. This should go to the fused terminal that feeds power to the brake lights.
- BROWN: Connect to switched 12 volt source. This should be connected to an accessory terminal of the fuse panel capable of supplying 10 amps. This wire should have 12 volts when the ignition key is in the accessory and run positions, but not in the off or start positions.
- BLACK: Connect to a good ground point on the chassis or fire wall.
- VIOLET: Connect to cold side of brake light switch. This wire should have 12 volts only when the brake is depressed. When the brake is not depressed it should be grounding through the brake light bulbs. If the brake light bulbs are not connected or are burned out, the system will not operate. **LED brake lights will not provide proper grounding.** If you have LED brake lights, use a relay to switch the violet wire between 12 volts and ground.
- BLUE: Connect to negative side of ignition coil. On GM HEI ignitions or MSD ignitions connect to TACH terminal. Do not route the BLUE tach wire and GRAY speed wires along side each other. The tach wire can cause interference with the speed signal wire.
- GRAY: see following section on SPEED CONNECTION.

SPEED CONNECTION:

- When using a cable drive speedometer, the metal speed pulse generator is placed in line with the cable. This can be done at either the transmission side or the speedometer side of the cable. The two wires from the sensor connect as follows:
- Systems with black and gray wires twisted together from the sensor: BLACK wire to ground, GRAY wire from sensor harness to GRAY wire from cruise harness.
- Systems with a gray cable with a red and black wire inside: BLACK wire to ground, RED wire from sensor harness to GRAY wire from cruise harness.
- When the cruise control is used with a Dakota Digital STR model of control system the gray wire should be connected to the SPEED terminal on the display system control box.

- When the cruise control is used with a Dakota Digital VFD3, VFD3X or VHX display system the gray wire should be connected to the 2K OUT or SPD OUT terminal on the display system control box.
- When the cruise control is being installed into a newer vehicle which does not use a speedometer cable consult the Vehicle Technical Information Guide supplied with the cruise. This will provide you with information on where to connect the gray wire.

SETTING PROGRAMMING SWITCHES:

The typical application is an 8 cylinder engine, automatic transmission, and a Dakota Digital or similar speed sensor. If your application is different, consult the installation manual.

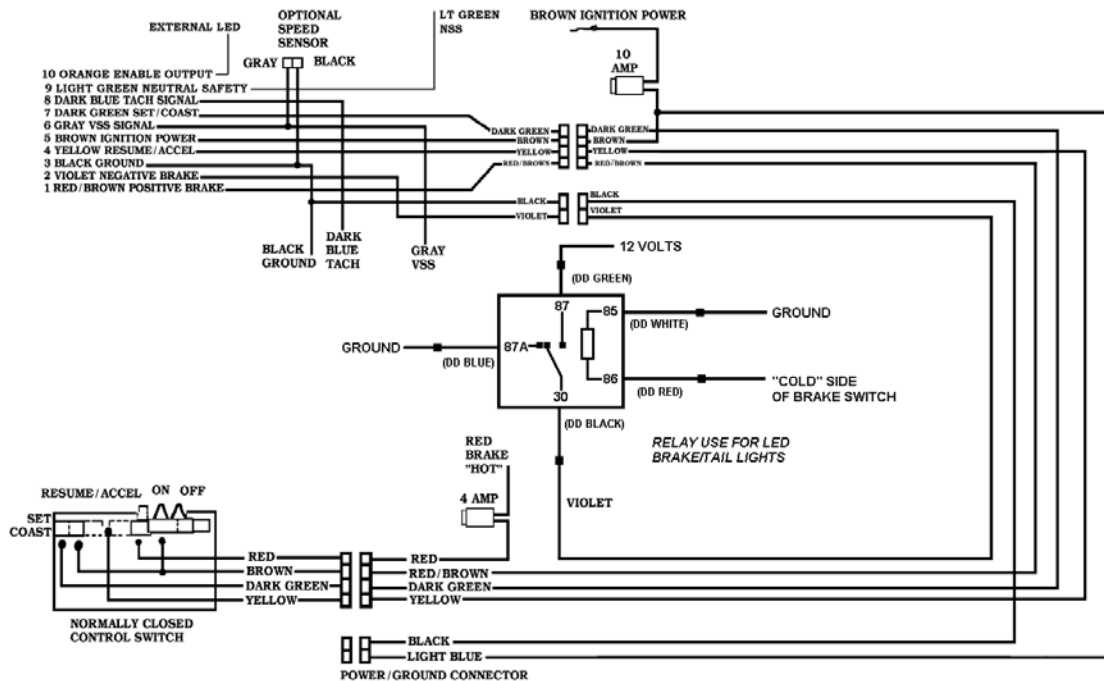
The normal setting when using a closed circuit control (turn signal switch) for the 12 switches will be 1, 3, 4, 11, and 12 on and the rest off. When using an open circuit control (dash mount switch) 1, 3, 4, and 11 should be on and the rest off. The description of the switch functions are found on page 6 of the manual. If you experience a surging when the cruise control engages then turn switch number 1 off.

TROUBLE SHOOTING:

If the system fails to operate after making all of the proper connections, consult the self diagnostics procedure on page 16. The Diagnostics LED is located beside the programming switches, under the rubber plug on the actuator.

In order for the cruise to regulate the speed properly, the car must be tested on the road and not with the tires elevated off the ground.

How to wire relay when using LED brake lights



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