

WHELEN[®]

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Addendum:
CANport™ Optional OBDII Communication Board
Control® WC
and
GenCom Carbide®

DANGER! Sirens produce extremely loud emergency warning tones! Exposure to these tones without proper and adequate hearing protection, could cause ear damage and/or hearing loss! The Occupational Safety & Health Administration (www.osha.gov) provides information necessary to determine safe exposure times in Occupational Noise Exposure Section 1910.95. Until you have determined the safe exposure times for your specific application, operators and anyone else in the immediate vicinity should be required to wear an approved hearing protection device. **FAILURE TO FOLLOW THIS RECOMMENDATION COULD CAUSE HEARING LOSS!**

Warnings to Installers

Whelen's emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen's written instructions when installing or using this device. Emergency vehicles are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer's instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRS) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SRS wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. **PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.**

Warnings to Users

Whelen's emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen's audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.**
- **Failure to use specified installation parts and/or hardware will void the product warranty.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post (this does not include products that use cigar power cords).**
- **If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device to be operated safely in any driving condition.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**ACTIVATION OF THIS
SIREN MAY DAMAGE
UNPROTECTED EARS!**



CAUTION
Loud siren noise can cause hearing damage and/or loss. Refer to OSHA Section 1910.95 prior to putting ANY siren into service!

NOTE: The OBDII Communication Board is optional and replaces the Input Remote Module on Carbide systems!

Preparation...

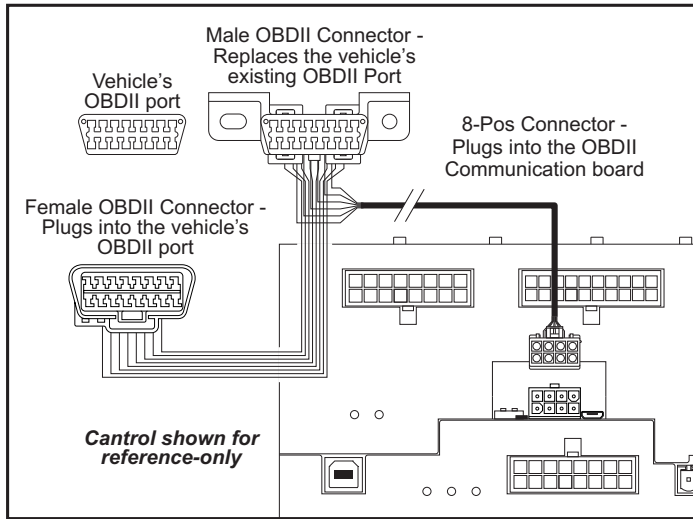
The following procedure should be performed with the vehicle off.

1. Locate your vehicle's OBDII port, typically under the driver-side of the dashboard (refer to your Owner's Manual for the exact location).
2. Locate the OBDII Interface Cable (included). This cable allows the CanTrol WC or CenCom Carbide system to communicate with your vehicle's OBDII network.

The interface cable is comprised of the following connectors:

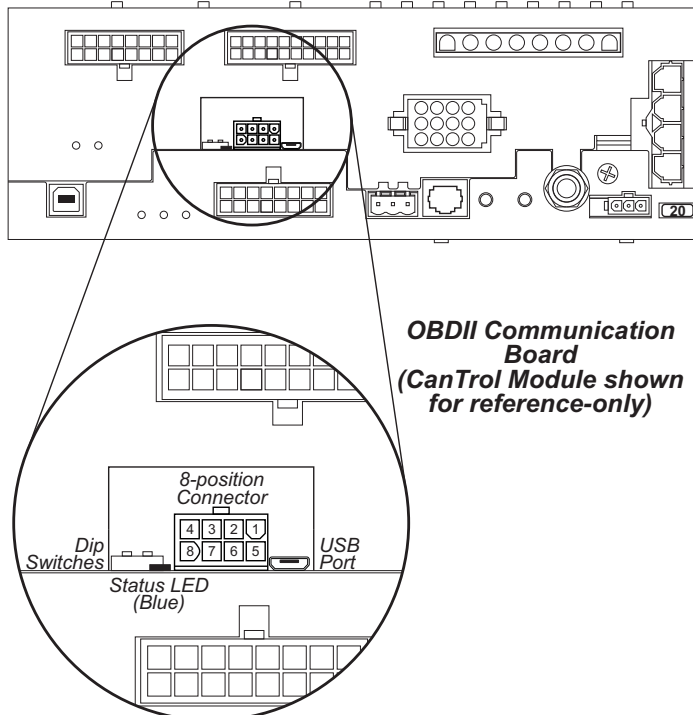
- **A Female OBDII connector**
- **A Male OBDII connector**
- **A 8-pin connector**

Using the hardware provided, mount the male OBDII connector in an area adjacent to the vehicle's OBDII port.



Connecting to the OBDII network...

1. The OBDII Communication Board consists of the following components:



- **USB Port** - This port is used exclusively for programming the OBDII Communication Board. All other system programming uses the standard USB port found on the CanTrol / Carbide module.
- **USB Status LED (Blue)** - This LED, located adjacent to the 8-position connector, indicates one of three potential USB states:
Off - No connection detected.
Slow Flash - For factory purposes only.
Fast Flash - Connection detected, not ready.
Steady - Connection detected, ready for use.
- **8-position Connector** - This connector is used to connect the OBDII Interface Cable to the CanTrol / Carbide module.
- **Dip Switches** - These switches are pre-set at the factory and their positions should not be modified. Changing their default positions could compromise the stability of the system.

2. Plug the female OBDII connector onto the vehicle's OBDII port.
3. Plug the interface cable's 8-position connector into the OBDII communication board on your CanTrol or Carbide module.

The CanTrol or Carbide system is now connected to the vehicle's OBDII network. The vehicle's emission and diagnostic data may now be accessed via the Male OBDII connector installed earlier in this installation.

Programming...

Configuring the CanTrol or Carbide system to interact with the OBDII network requires a Windows®-based laptop computer to be connected to the OBDII Communication board. This connection requires a USB cable and is only needed during the programming process.

When the laptop has been connected to the OBDII Communication board, run the CanTrol or Carbide configuration software and access the OBDII Option.

Connector Pin-Out...

<u>Pin</u>	<u>Description</u>	<u>Color</u>
1	Signal - High (CAN 1)	GRN
2	Signal - Shield (CAN 1)	Shield
3	Signal - Low (CAN 1)	GRY
4	Speed Output	VIO
5	Signal - High (CAN 2)	BLU
6	Signal - Shield (CAN 2)	Shield
7	Signal - Low* (CAN 2)	GRY
8	Speed Ground	BLK

* = Tied to Shield on GMLAN