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Installation Guide: PCCS9NP Power Control Center

DANGER! Sirens produces 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!**

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.
- 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 any 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.
- If this product uses a remote device to activate or control this product, make sure this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition. **DO NOT ATTEMPT TO ACTIVATE OR CONTROL THIS DEVICE IN A HAZARDOUS DRIVING SITUATION.**
- 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!



Wear Protection!

CAUTION

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

For warranty information regarding this product, visit www.whelen.com/warranty

WARNING!

DISCONNECTING THE VEHICLE BRAKE LAMP CIRCUIT USING ANY SIRENS WITH RELAY OUTPUTS OR SWITCH CONTROLLERS COULD CAUSE VEHICLE OR PROPERTY DAMAGE, SERIOUS INJURY OR EVEN DEATH.

DISABLING THIS CIRCUIT IS A VIOLATION OF THE FEDERAL MOTOR VEHICLE SAFETY STANDARD FOR THE THIRD BRAKE LIGHT, AS WELL AS REAR BRAKE LIGHTS.

FUNCTIONS THAT BLACK OUT THE REAR BRAKE LIGHTS (SOMETIMES CALLED “BRAKE LIGHT CUT OUT”) MAY INTERFERE WITH THE BRAKE SHIFT LOCK MECHANISM, AND CAUSE THE VEHICLE TO MOVE UNEXPECTEDLY AND DANGEROUSLY.

DISCONNECTING THE BRAKE LIGHTS IN ANY WAY IS AT YOUR OWN RISK AND IS NOT RECOMMENDED BY WHELEN.

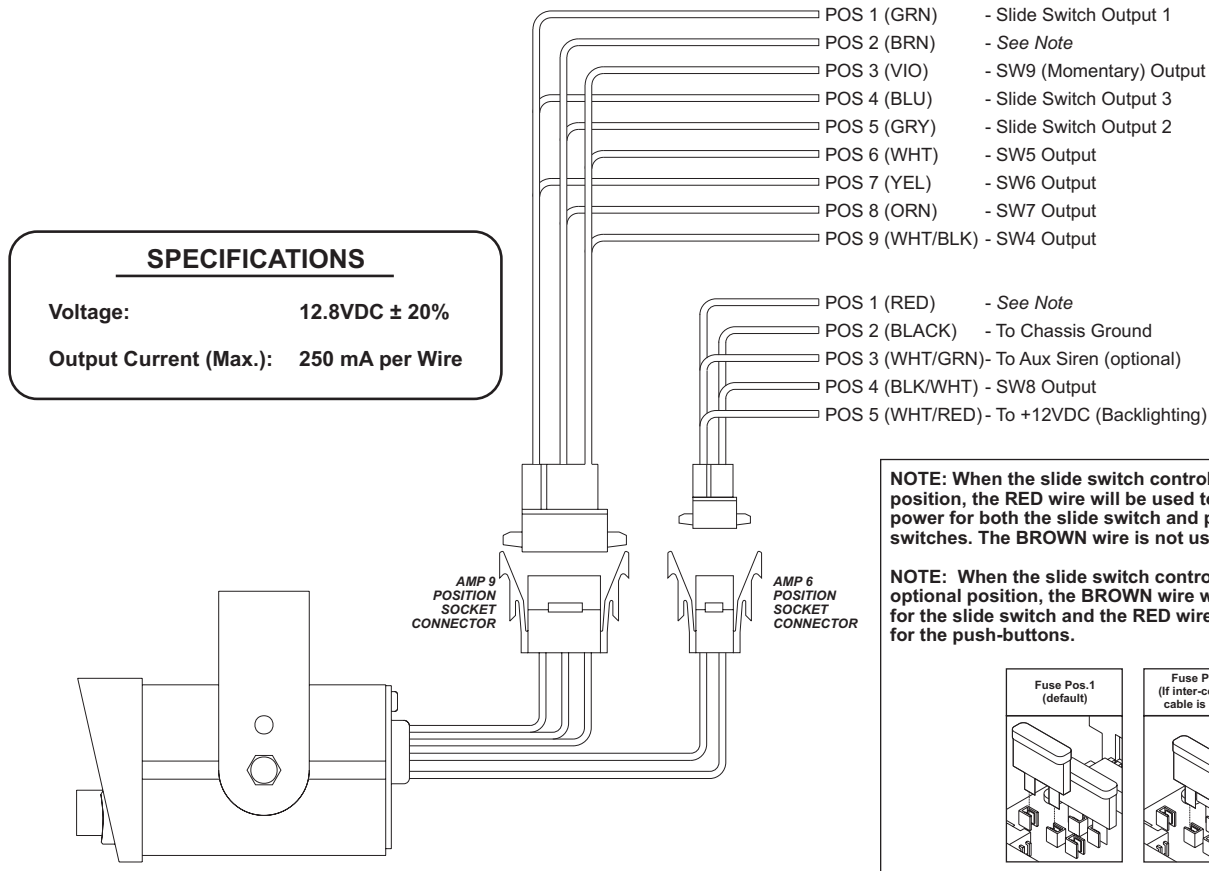
Mounting:

An aftermarket center console is recommended for the mounting location. If console mounting is not possible, the unit includes a bail strap mounting kit for over or under dash mounting. **Refer to the Air Bag Deployment Warning on the front sheet of this manual for important mounting guidelines!**

Wiring the PCCS9NP:

WARNING! All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** at the battery to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT** (see customer wire chart).

IMPORTANT! The push-button and slide switch control wires are designed to activate relays with a coil rating no greater than 250 ma. Do not connect them to any circuit rated higher.



6-Pin Connector (Power Wires)

1. Connect the 9-pin power connector (see wiring diagram) into the 9-pin pigtail connector provided.
2. Extend the RED wire to a +12VDC accessory circuit. Install a 5 amp fuse block (customer supplied) onto the end of the wire and complete the connection to the selected power circuit (remove the fuse before connecting any wires).

IMPORTANT: There must not be more than 2 feet of wire between the fuse block and the battery. The wire between the fuse and the battery is "unprotected." Do not allow this wire to come in contact with any other wires.

3. Connect the BLACK wire to chassis ground.
4. Extend the WHITE/RED wire to a +12VDC source that is activated with the vehicle ignition switch.

5. Extend the WHITE/GREEN wire to an auxiliary siren control line (optional).
6. The BLACK/WHITE wire is the SW8 output wire. Connect to the desired control wire.

IMPORTANT: Replacing a PCCS9N

If the PCCS9NP is replacing a model PCCS9N controller, it will be necessary to replace the existing 4-pin cable previously used on the vehicle in question.

Additionally, the following changes must be made to the PCCS9NP itself. First, the rear, outer fuse on the PCCS9NP circuit board must be moved from its default position into fuse position 2 (see illustration above). Note that the PCCS9NP cover must be removed to access this fuse. Finally, the dip switch settings for banks 1, 2 & 3 must be set as shown on the following page.

9-Pin Connector (Output Control Wires):

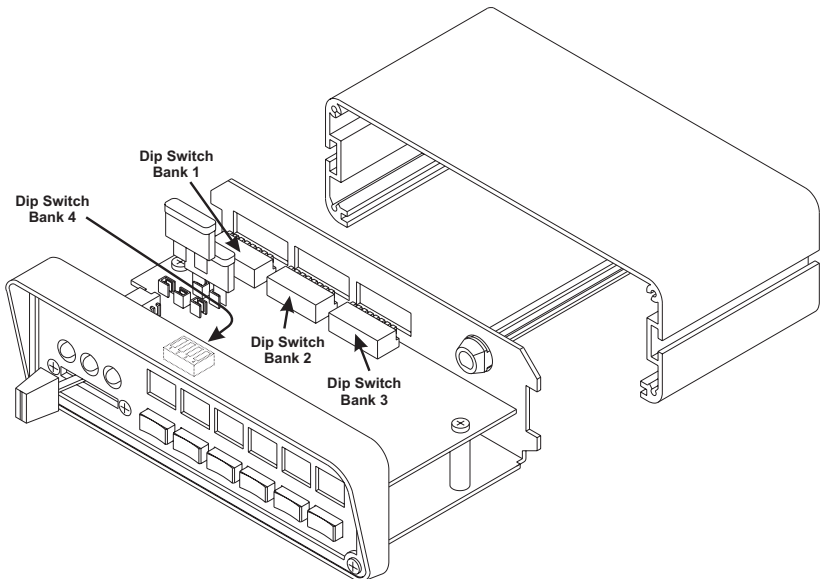
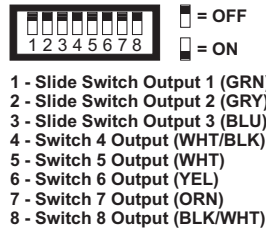
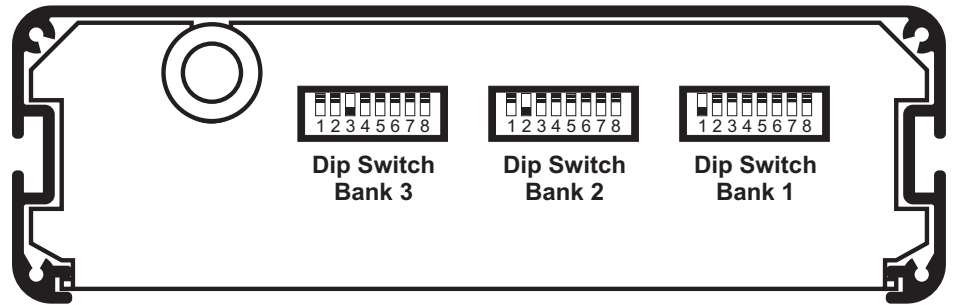
Using the information shown in the illustration on page 3, connect the appropriate output wire to the desired input control wire.

Configuring Slide Switch Control:

The slide switch has four positions: 0 (off), 1, 2 & 3. When in position 0 (furthest to the left) the slide switch has not activated any outputs. In position 1, 2 or 3 the slide switch can activate any combination of outputs 1 through 8. Each active slide switch position uses a bank of dip switches to determine which outputs are to be active while the slide switch is in that position; position 1 uses dip switch bank 1, position 2 uses dip switch bank 2 and position 3 uses dip switch bank 3.

Each dip switch bank is comprised of 8 switches, each representing a corresponding output (switch 1 for output 1, switch 2 for output 2, etc.). If, for example, switches 1, 3, 4 & 6 on dip switch bank 1 are in the ON position, outputs 1, 3, 4 & 6 will be active when the slide switch is moved to position 1.

Slide switch configuration is as simple as deciding which outputs are to be active in a given position and then moving the corresponding dip switch on the appropriate dip switch bank to the ON position.



Custom Dip Switch Configuration (Dip Switch Bank 4):

Push-button 9 (momentary switch) can function in 4 different modes, defined by the 4-position dip switch bank 4. This bank is located on top of the circuit board and is only accessible with the cover removed from the PCCS9NP.

Mode 1 - (default) - In this configuration, the output is activated for as long as push-button 9 is depressed.

Mode 2 - In this configuration, when push-button 9 is pressed, the output is activated for a period of 8 seconds.

Mode 3 - In this configuration, when push-button 9 is pressed, the output is activated. When pressed again, the output is deactivated.

Mode 4 - In this configuration, when push-button 9 is pressed, the output is activated for a period of 400 ms. After 400 ms, the output is deactivated for 400 ms. This cycle will continue until push-button 9 is pressed again.

Note - Dip Switch 1 is used to enable/disable the Aux Siren (WHT/GRN) wire. In the default position (ON), this wire is enabled. Moving Dip Switch 1 to the OFF position will disable this wire. This switch should be left in the default position. If this wire is not used, move Dip Switch 1 to the OFF position.

DIP SWITCH CHART / 4-POSITION / BANK 4

Default (factory) setting shown.

Switch 9 (momentary)	1	2	3	4
ON	Down (ON)	Down (OFF)	Down (OFF)	Down (OFF)
OFF				

SWITCH 9 CAN OPERATE IN 4 DIFFERENT MODES, DEFINED BY THE 4-POSITION DIP SWITCH (Bank 4):

