



GS-**2.5**KIT 12/24V

Installation Instructions

- (1)** Housing Assembly - GS-HSG**2.5**
- (1) Display Kit - GS-DSPLYKIT
- (1) Wiring Conn Kit - GS-CONNKIT
- (1)** ShockerEDGE Controller - GS-CNTRL-1.0 or 2.0
- (2)** Silicone Hose - HS-**2.5**X3.0L
- (4)** Hose Clamp - CLP-**042**
- (1) Sensor Verification Spray - GS-SVS



**Headwind
Solutions**

1.844.304.7277

www.headwindsolutions.ca

Sensor Housing Location

- **Single Air Cleaner**
 - Choose a location as close as possible to the air cleaner housing discharge nipple
- **Dual Air Cleaners**
 - Choose a location after the WYE pipe, as far away from the turbo inlet as possible
- **Multiple air cleaners**
 - Follow the steps for a single air cleaner

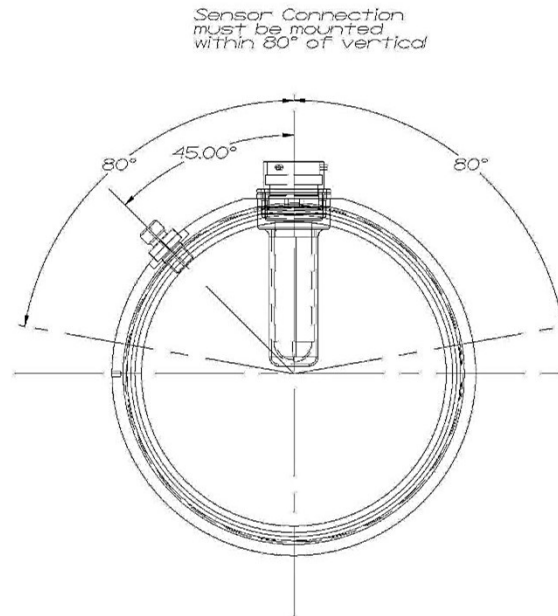
Air Filter Type

- Paper or washable media – permissible
- Oil bath – Not permissible
- Oiled media – Not permissible

Sensor Housing Installation

- **Pipe/tube**
 - Cut 3.5” from O.E.M. pipe/tube to accommodate the ShockerEdge sensor housing. Ensure there is a minimum of 1.25” straight pipe/tube on either side of the cut for proper clamping.
 - Install ShockerEdge sensor housing with the supplied hoses and clamps. Tighten clamps to torque spec (info located on Maintenance Decal).
 - Ensure the arrow on the sensor housing is pointed in the direction with air flow.
- **Rubber Hose**
 - Cut 1.25” from the O.E.M. hose, while ensuring you have 1.25” of straight hose on either side of the cut to allow for proper clamping
 - Install the sensor housing with the provided clamps and tighten to torque spec (info located on Maintenance Decal).
 - Ensure the arrow on the sensor housing is pointed in the direction with air flow.

****The ShockerEdge housing must be installed within 80 degrees of vertical, 0-45 degrees is optimal orientation (see diagram).****



****Crankcase ventilation lines (or EGR line) must be located downstream of the sensor housing.** AS FAR AWAY AS POSSIBLE**

Mounting the ShockerEdge Controller

- Mount the Control Unit on the firewall of the engine compartment away from moving parts and heat sources so that it is accessible for testing. Do not tighten the screws until installation is complete.

ATTENTION
Always mount box
in upright position
as pictured.



Create a drip loop as per
good wiring practices to
ensure any moisture
goes to the bottom
of the loop.

- The controller can be mounted inside the engine bay or operator compartment. Extension cables are available from Headwind Solutions.
- Secure the controller in an upright position with provided mounting slots. Do not leave loose or zip tied to other wiring or components.

We recommend mounting your ShockerEDGE controller in the engine compartment, and the ShockerEDGE provided display on the left-hand side of the dash, so it is easily accessible/visible from both the operator's seat and the ground.

Edge Wiring Procedure

With all components mounted, begin the wiring process as follows.

1. Connect Molex 12 pin connector on harness to the ShockerEDGE controller.
2. Route wiring harness in a safe path to all components.
3. Connect yellow 5 pin cable to the yellow [GS-CON-90] sensor cable on the sensor housing.
4. Connect the 3-pin male yellow cable from the main ShockerEDGE harness to the female connector on the ShockerEDGE display.
5. Using the add-a-circuit fuse tap supplied, connect the brown wire in the 3-wire yellow cable [GS-CBL-2M-3W-F] using the supplied red heat shrink/crimp butt connector to the add-a-circuit fuse tap lead. (blue wire is not used, cap off with heat shrink tubing) Locate a 5 to 20 amp key on/off circuit*, remove the OEM fuse, and install the OEM fuse in the bottom slot (closest to the pins) on the fuse tap. Install the supplied 5-amp

- fuse in the top slot of the fuse tap. Install the fuse tap into the OEM fuse panel slot. Connect the black wire to battery ground.
6. Connect the 3 pin [GS-CBL-2M-3W-F] female cable to the male connector on the ShockerEDGE display. Route this cable to the equipment/truck fuse panel and cut off the excess.
 7. Using the supplied red fuse adaptor, connect the #7 wire (red/wht) to the fused lead of the adaptor & the non-fused lead to the #1 wire (bk/wht) using the supplied yellow heat shrink/crimp butt connectors.
 8. Locate the ECM wake power or fuel shutoff solenoid circuit fuse in the panel. * Remove the fuse from the panel, install that fuse into the slot into the adaptor, install the adaptor into the slot in the OEM fuse panel.
 9. Connect the 12 awg red #6 wire using the supplied fuse holder with 5-amp fuse and the supplied yellow heat shrink/crimp butt connectors, to the positive battery post using the supplied yellow heat shrink/crimp ring connector. ****IMPORTANT**leave the fuse out of holder until step 11**
 10. Connect the 12 awg black #12 wire to the negative post of the battery using the supplied yellow heat shrink/crimp connector.
 11. Install fuse & watch the LED sequencing on upper left of controller. [see operators manual for LED guide]

***Refer to the OEM owners/service manual for circuit/fuse location.**

- **Option Connect:** White #5 wire to audio/visual alarm.
- **Option 1.0 Controller:** Connect green wire #11 to the ground activation terminal of a ShockerPASS RPM controlled Positive Air Shutoff system. This is a ground activation circuit and can be used in conjunction with a relay to activate a positive circuit.
- **Option 2.0 Controller:** Pull the green wire to ground for remote activation. ex) ESD/Slam button
- After installation is complete, be sure to complete an EDGE controller test and SVT to ensure the system is working properly.

**WARNING: EDGE SYSTEM STARTUP IS APPROXIMATELY
20-60 SECONDS**

Shocker
EDGE
EARLY DETECTION OF GAS EXPOSURE

**REGULAR
MAINTENANCE**

- **TEST CONTROLLER WEEKLY**
- **SVT COMPLETED A MINIMUM ONCE EVERY 90 DAYS**
- **INSPECT HOSES & WIRES**
- **CHECK CLAMP TIGHTNESS**
(Torque clamps to: 9Nm - 6.6 ft./lbs. - 79.6 in./lbs.)

Go to www.headwindsolutions.ca for Owners Manual instructions

Shocker
EDGE
EARLY DETECTION OF GAS EXPOSURE

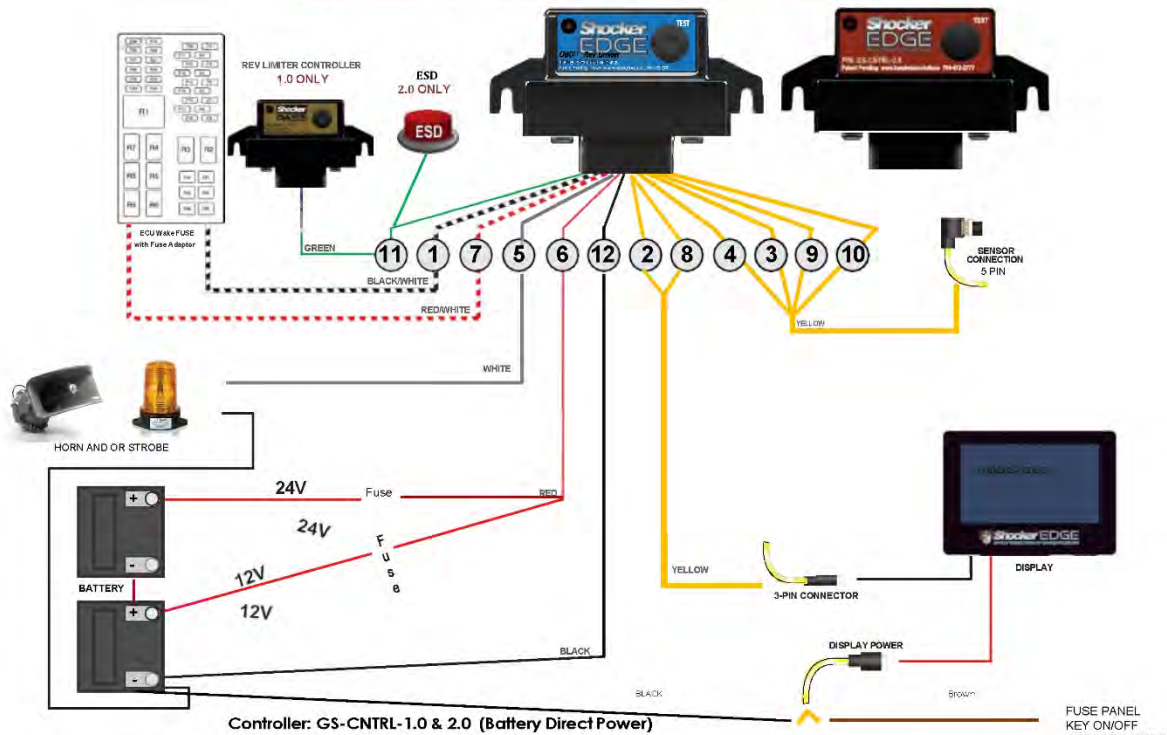
WARNING

**SYSTEM STARTUP MUST BE DONE IN A
CLEAN AIR ENVIRONMENT WITH 0% LEL
AND AMBIENT TEMP BETWEEN
-40°C/-40°F TO 75°C/167°F**

SVT MUST BE COMPLETED A MINIMUM OF ONCE EVERY 90 DAYS

Go to www.headwindsolutions.ca for Owners Manual Instructions

Wiring Diagram G5-CNTRL-1.0 (blue label) or 2.0 (copper label)



FUSE PANEL
KEY ON/OFF
ACTIVATE AFTER
ENGINE STOP

Pin	Use	AWG #	Color
1	Engine Shutdown NC (common)	12	Black/White
2	Display CAT Cable		Yellow
3	Rx Sensor CAT Cable		Yellow
4	Tx Sensor CAT Cable		Yellow
5	Hold Output	12	White
6	Battery Positive	12	Red
7	Engine Shutdown NC	12	Red/White
8	Display CAT Cable		Yellow
9	Sensor Ground CAT Cable		Yellow
10	Sensor Power CAT Cable		Yellow
11	Optional 1.0 & 2.0 Controller	16	Green
12	Battery Negative	12	Black

Display: GS-DSPLY (Key On/Off Power)

Power	Brown
Ground	Black
Not Used	Blue

IMPROPER GROUNDING OR REMOVAL OF CONNECTORS CAN CAUSE DAMAGE TO COMPONENTS, VOIDING WARRANTY

Headwind Solutions warrants the components of this device for a period of one (1) year from the date of purchase. The customer is responsible for the correct installation, setup and testing of the product, including: a) the location of all components; b) correct wiring connections and wire gauge; c) correct setup and testing of the installed product. This warranty is void if the product is incorrectly installed, set up or tested.

THANK YOU FOR CHOOSING



Manufactured in North America.

**Check our website for
troubleshooting videos and tips.**

www.headwindsolutions.ca

©2018 Headwind Solutions. All rights reserved

Toll Free: 1-844-304-7277 www.headwindsolutions.ca

V1.2 March 2025