FASS Diesel Fuel Systems

DIFSHK1001 DROP-IN SERIES FUEL HEATER KIT

INSTALLATION MANUAL

APPLICATION:

FASS Drop-In Series

DESIGNED, MACHINED & ASSEMBLED IN THE USA

www.fassride.com
(866) 769.3747

Thank you for choosing FASS, from Diesel Performance Products, Inc.

FASS specializes in building extremely high-quality fuel products. We have earned an unsurpassed reputation for excellence in our industry by using only the highest-quality American-made components. In order to support our American workers and our American economy, more than 98+ percent of our products are manufactured completely in the United States.

Of course, that dedication to excellence comes at a price, but it is important to remember that price does not dictate quality-quality dictates price! We will never compromise by using cheaper, foreign-made components, like so many of our competitors do.

Customer satisfaction is our top priority and we strive always to provide outstanding customer service. Our Research and Development department, in conjunction with our Dealer Support Department, continually searches for ways to improve quality, expand our product line, and provide superb support. Our exclusive ViP Network ensures that customers receive the proper products and support at the local level. There is no warranty on products not purchased outside the network.

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contact Technical Support:
Diesel Performance Products, Inc.
16234 State Hwy O.
Marthasville, MO 63357
636-433-5410

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NOTE: ***Owner's Manual available for download on our website,***
www.FASSride.com

HE-1001

HB-2001

DIELECTRIC GREASE

RELAY COVER

RING TERMINALS

ADD-A-CIRCUIT 46177

46116

ADD-A-CIRCUIT 46044

46251

WH-1006

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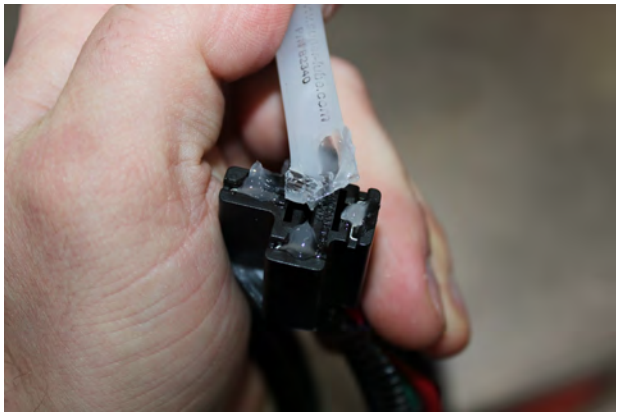
STEP 1:
INSTALL ELECTRICAL HARNESS

NOTE: USE SUPPLIED DIELECTRIC GREASE SPARINGLY ON ALL ELECTRICAL CONNECTIONS! BE SURE TO GREASE RELAY PIGTAIL!



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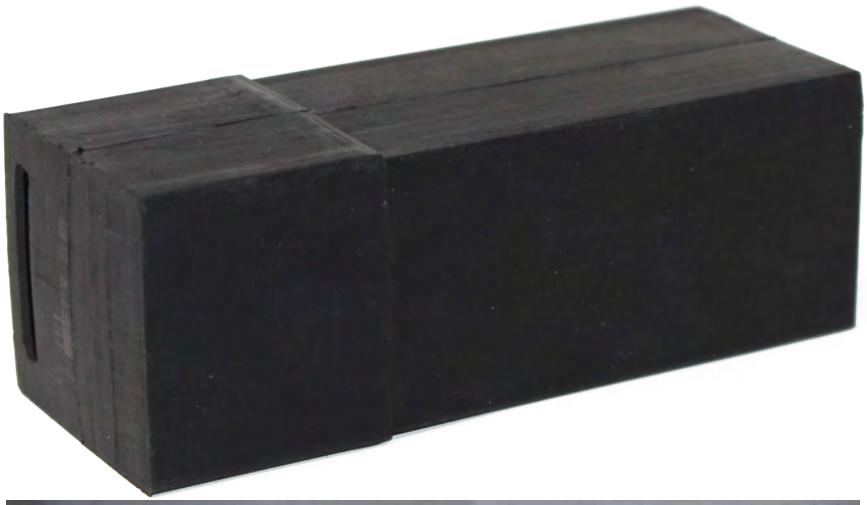
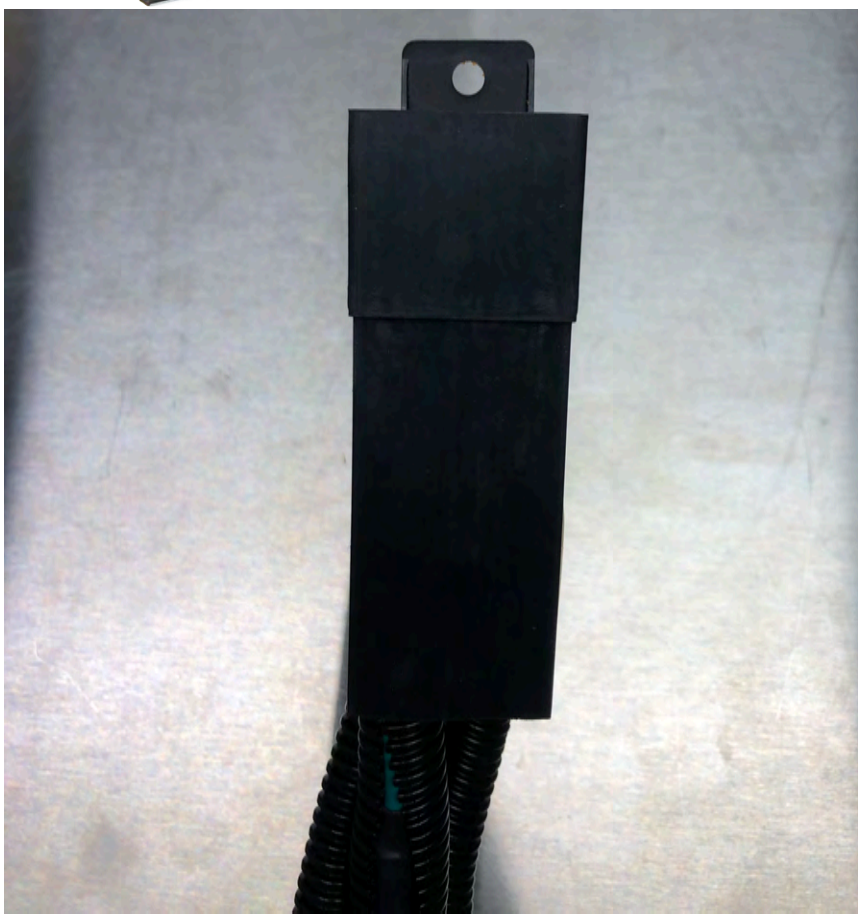
STEP 1:
INSTALL ELECTRICAL HARNESS

The installation of the electrical harness is done first, allowing power to be applied to the pump for lubrication purposes later in the installation.

Install the Relay Cover onto the relay on the FASS harness.





STEP 1:
INSTALL ELECTRICAL HARNESS

The installation of the electrical harness is done first, allowing power to be applied to the pump for lubrication purposes later in the installation.

OPTIONAL WIRING STRATEGY:

Installation of a lighted toggle switch will allow you to power the heater kit on prior to the FASS running. THIS WILL ALLOW THE FUEL TO "THAW" PRIOR TO STARTUP, REMOVING ANY POTENTIALLY GELLED FUEL FROM THE FUEL FILTERS. We suggest utilizing a lighted rocker switch in a highly visible location to prevent accidentally leaving the switch in the "on" position after leaving the vehicle and draining the batteries.

STEP 1:
INSTALL ELECTRICAL HARNESS

The installation of the electrical harness is done first, allowing power to be applied to the pump for lubrication purposes later in the installation.

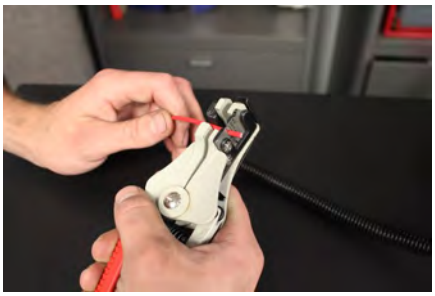
OPTIONAL WIRING STRATEGY:

Another option for wiring the FASS heater kit is wiring the heater kit trigger wire to the headlamp or running lamp 12v + circuit. If this is the preferred method, the heater kit will run at all times when the headlamps/running lamps are on. The heater elements are thermostatically controlled so there is no need to worry about overheating the fuel. WIRING THE HEATER KIT TO THE HEADLAMP CIRCUIT WILL ALLOW YOU TO PRE-HEAT THE DIESEL FUEL PRIOR TO STARTING THE ENGINE. This method will prevent accidentally leaving the heater kit on after leaving the vehicle, potentially draining the batteries.

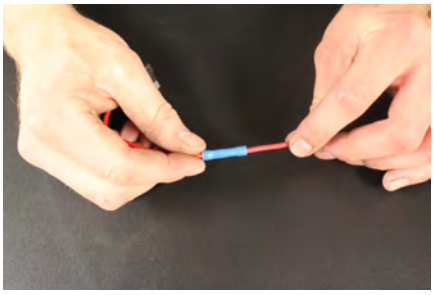
STEP 1:
INSTALL ELECTRICAL HARNESS

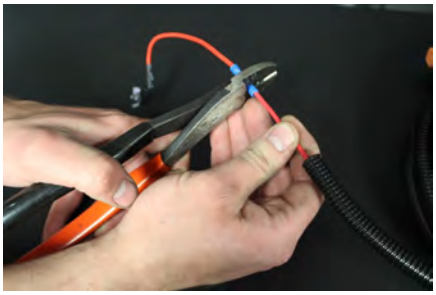
NOTE: FOR TRUCKS EQUIPPED WITH MICRO FUSES, USE 46177. FOR TRUCKS EQUIPPED WITH MINI FUSES, USE 46044.

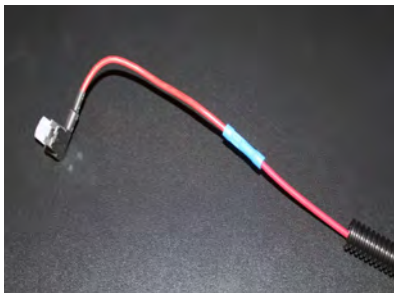
A. Using wire stripping tool remove excess insulation off the ADD-A-CIRCUIT and the single red wire of WH-1006.



B. Place wire from ADD-A-CIRCUIT and WH-1006 into butt connector. Using crimping tool connect ADD-A-CIRCUIT Install the appropriate fuse into ADD-A-CIRCUIT bottom slot (opening that is near the spade). Route ADD-A-CIRCUIT lead to the fuse panel.





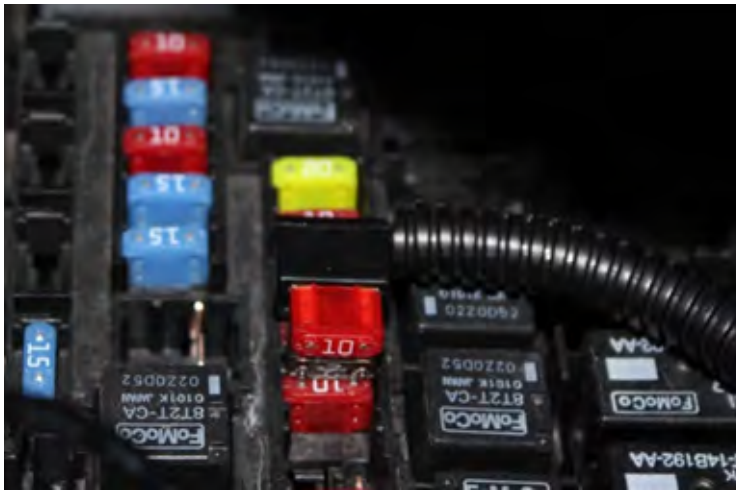


C. Crimp the ring terminals to the red and green wires of the WH-1006 wire harness. Attach red wire to the positive terminal of the battery and the green wire to the negative terminal. Use supplied dielectric grease on all electrical connections.

STEP 1:
INSTALL ELECTRICAL HARNESS

D. Secure relay and fuse in an upright position, as shown, to prevent moisture from entering. Apply dielectric grease to the relay pigtail.

E. Route the Add-a-Circuit to the fuse panel. Remove a fuse (maximum of 10A) that is “hot” when the key is on, install the into the open location. Install the pulled fuse into the open space on the fuse tap. Disconnect the vehicles’ battery and continue installation.



F. Route WH-1006 wire harness along frame rail to mounting location of pump. Completion of this step will be addressed in the mounting step.

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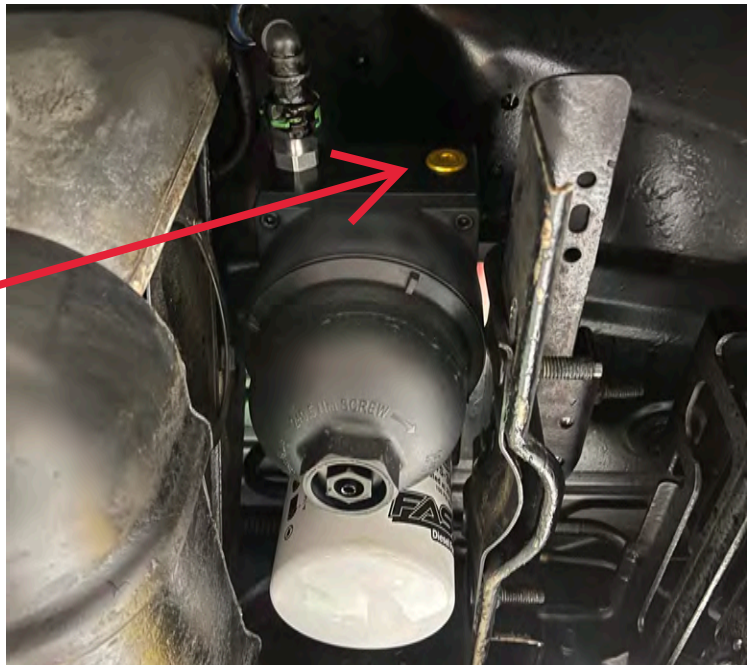
STEP 2:
INSTALLING THE FUEL HEATER ELEMENT

PLEASE SEE THE BELOW PICTURES FOR CORRECT HEATER PROBE PORT ON YOUR APPLICATION!

DIFSL5P1001



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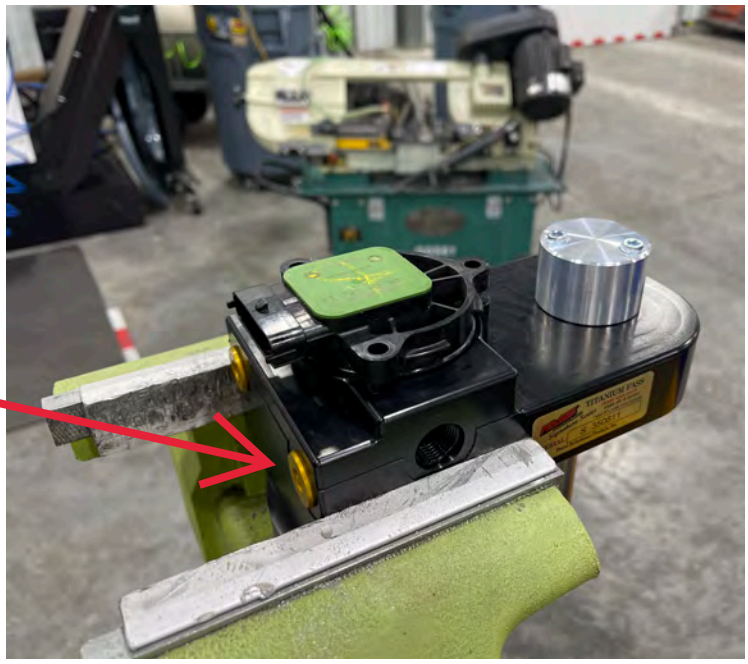

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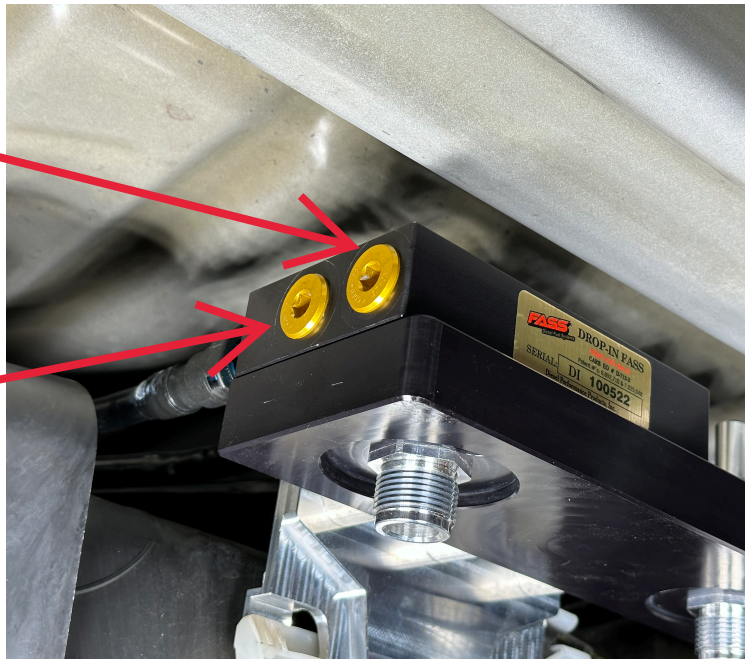
STEP 2:
INSTALLING THE FUEL HEATER ELEMENT

PLEASE SEE THE BELOW PICTURES FOR CORRECT HEATER PROBE PORT ON YOUR APPLICATION!

DIFSFRD1001

If installing ONE probe use this port.

If installing TWO probes, this is the secondary port.



DIFSRAM1001

If installing ONE probe use this port.

If installing TWO probes, this is the secondary port.

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STEP 2: INSTALLING THE FUEL HEATER ELEMENT

NOTE: ON SOME MODELS, THE HEATER PROBE CAN BE INSTALLED WITH THE DROP-IN FASS MOUNTED ON THE TRUCK. OTHER MODELS MAY REQUIRE THE FASS BE REMOVED FOR EASIER ACCESS TO THE HEATER PROBE PORTS.

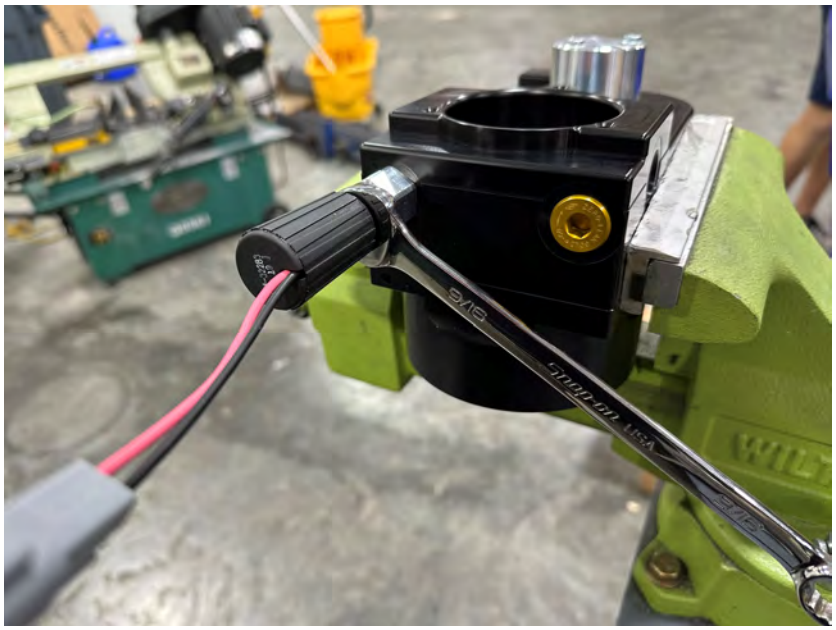
A. Using a 5/16" Allen wrench, remove the chosen plug from the filter base.

B. Install HB-2001 into the open port and tighten accordingly.

STEP 2:
INSTALLING THE FUEL HEATER ELEMENT

C. Apply thread tape to HE-1001 as shown.

D. Install HE-1001 into HB-2001 and tighten accordingly. If removed, the FASS can now be reinstalled. Connect WH-1006 to HE-1001. Start the truck and check for leaks!



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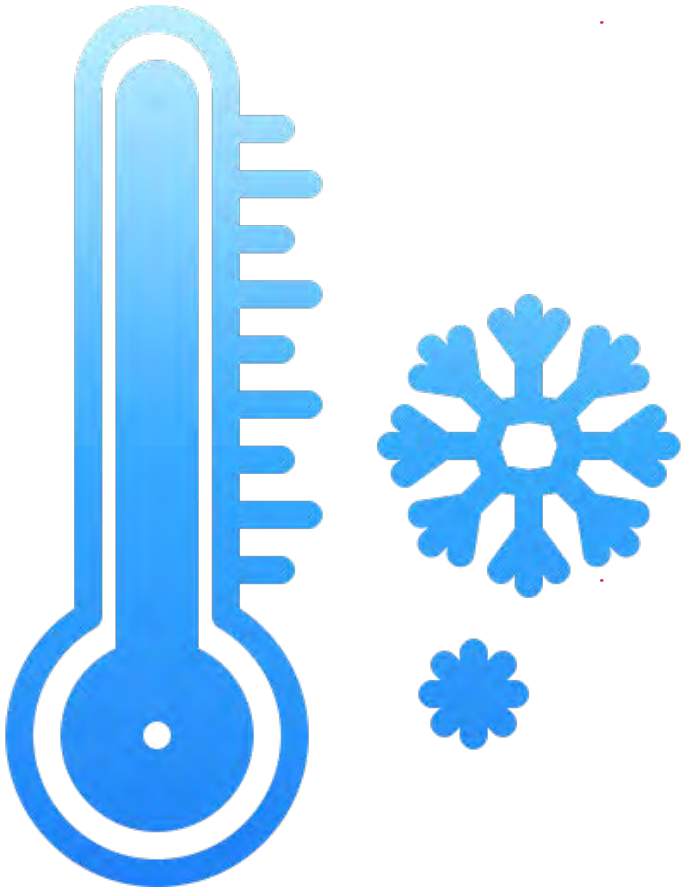
STEP 2:
INSTALLING THE FUEL HEATER ELEMENT

NOTE: THE DROP-IN SERIES HEATER PROBE KIT IS THERMOSTATICALLY CONTROLLED. WHEN THE FUEL DROPS TO THE CALIBRATED SETPOINT, THE HEATER ELEMENT WILL AUTOMATICALLY POWER ON. ONCE THE FUEL REACHES OPTIMUM TEMPERATURE, THE HEATER WILL AUTOMATICALLY POWER OFF!