WWW. **efi** HARDWARE .com

Bulkhead Electrical Fitting M6 Hex Hi-Amp
Technical Diagram
Part Number: 866-033
Drawing Revision 2 - 24/2/21

www.youtube.com/efihardware
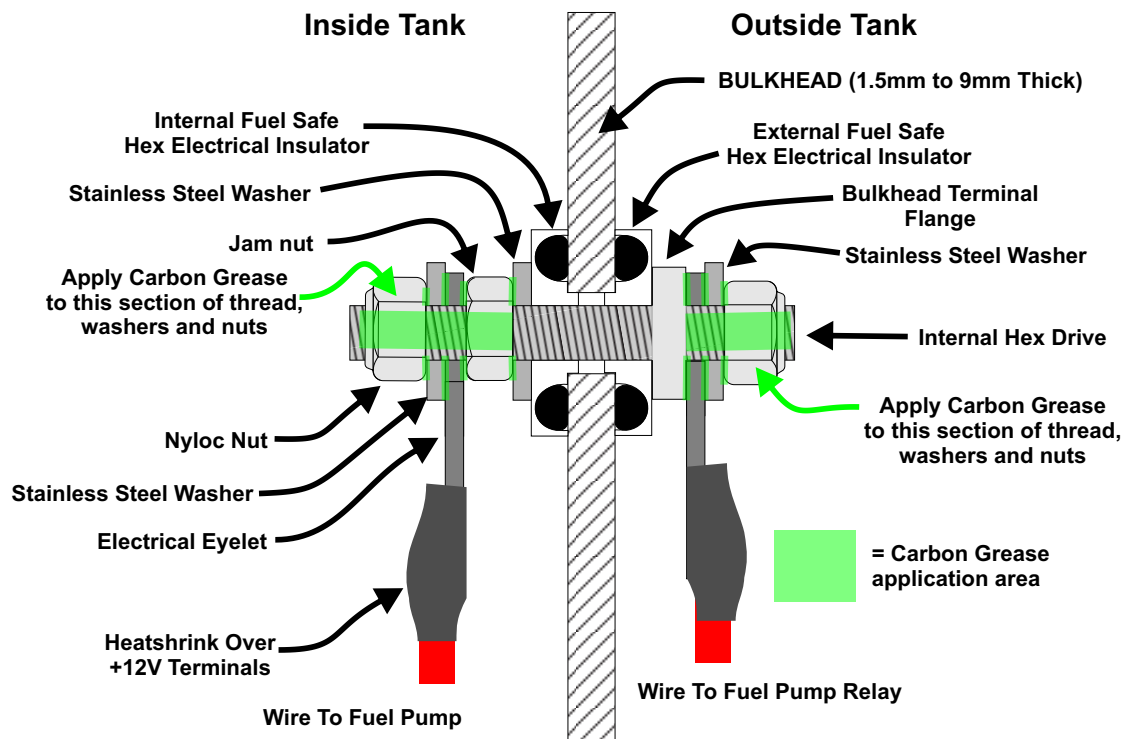
www.facebook.com/efihardware

www.efihardware.com

info@efihardware.com

(03) 9873 5400
+613 9873 5400

(03) 9873 5955
+613 9873 5955

Inside Tank

Outside Tank

BULKHEAD (1.5mm to 9mm Thick)

Internal Fuel Safe Hex Electrical Insulator

External Fuel Safe Hex Electrical Insulator

Stainless Steel Washer

Bulkhead Terminal Flange

Jam nut

Stainless Steel Washer

Apply Carbon Grease to this section of thread, washers and nuts

Internal Hex Drive

Nyloc Nut

Apply Carbon Grease to this section of thread, washers and nuts

Stainless Steel Washer

Electrical Eyelet

= Carbon Grease application area

Heatshrink Over +12V Terminals

Wire To Fuel Pump Relay

Wire To Fuel Pump

Instructions:

1 - The hole you drill in your fuel tank bulkhead must be between 8.1mm and 8.2mm in diameter.

2 - The external white hex insulator must remain tensioned against the underside of the bulkhead terminal flange at 2Nm

3 - Fit the stud through the bulkhead and torque the internal white hex insulator to 2Nm while holding an Allen wrench in the top side of the stud to prevent the stud from rotating.

4 - Tighten the Jam nut and washer on the internal side of the stud, while holding an allen wrench in the top side of the stud, to prevent the assembly rotating.

5 - Apply carbon conductive grease to the threaded stud both inside and outside the tank. Also apply some carbon grease into both nyloc nuts before fitting.

6 - IMPORTANT - Carbon Conductive Grease Application. This special grease greatly assists in reducing electrical resistance, voltage drop and heat across the bulkhead terminal assembly. On Final electrical assembly apply the Carbon Conductive Grease to the following areas:-
• The bulkhead stud threads were the nyloc nuts will be fitted.
• To both sides of the eye terminals were they contact the bulk head stud flange, jam nut and washers.
• The underside and inside threads of the nyloc nuts.
With this Conductive Grease a little goes a long way so only a small amount is required in each area.

7 - Fit the electrical eyelets with washers and then install the nyloc nuts.

Current Rating
25A @ 50C continous*
30A @ 50C Short periods < 30sec*
*(once assembled to specification)
NOTES:
- Specifically designed for use with OEM style plastic fuel pump bulkheads.
- The minimum bulkhead thickness is 1.5mm. Maximum Thickness of 9mm
- You can use these Bulkhead Fittings for Fuel Level Sensors or other electrical controls.
- 14mm socket can be used on the electrical isolator.