

## EFC-1K Assembly Instructions

### Parts List:

Part no.	Description	Qty
EFC1 Board	EFC-1 PC board	1
EFC29-3	EFC forward bulkhead	1
EFC29-2	EFC housing	1
EFC-1 Plug	Glow plug	1
EFC-1 Screw	4-40 Button head screw	2
EFC-1 Wire	3" Copper wire	1

### Tools & Supplies Required:

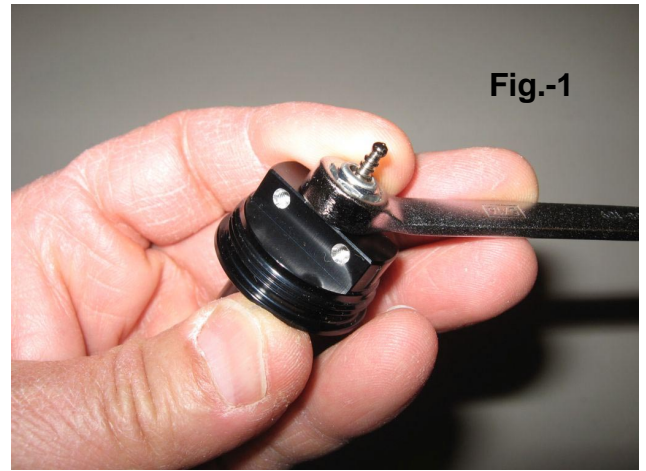
- 3/8" box or adjustable wrench
- Soldering iron (30 watt recommended)
- Rosin core solder
- Wire trimmer or scissors
- 3/32" slotted screwdriver
- 1/16" allen wrench
- Fine sandpaper

**1-1. Fig.-1:** Thread the glow plug into the receptacle in the EFC forward bulkhead. Tighten securely with the 3/8" wrench.

**1-2. Fig.-2:** Remove the insulation from the supplied 3" copper wire. Tightly wrap the middle of the wire twice around the groove just below the end of the glow plug terminal.

**1-3. Fig.-3:** Twist the exposed ends of the wire together tightly in the profile and orientation shown.

**1-4. Fig.-4:** Using a soldering iron and rosin core solder, apply solder to the glow plug terminal and wire until the wire is securely attached to the terminal and the terminal and wire are completely wetted with solder.



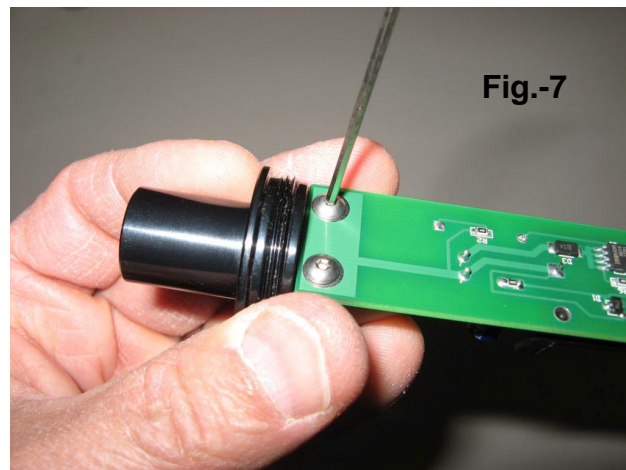
**1-5. Fig.-5:** Trim the soldered wire to a length of approximately 5/16" past the end of the glow plug terminal.



**1-6. Fig.-6:** Insert the trimmed end of the glow plug wire into the hole in the terminal block marked "plug pin". Tighten the screw in the block securely onto the wire with the 3/32" slotted screwdriver.



**1-7. Fig.-7:** Insert the 4-40 button head screws through the PC board and into the holes in the EFC forward bulkhead. Ensure that the PC board is centered on the flat machined in the forward bulkhead, then tighten the screws with the 1/16" allen wrench.



**1-8. Fig.-8:** Test fit the EFC board assembly into the EFC housing. If it is too tight, adjust the position of the PC board on the forward bulkhead, and/or use the fine sandpaper to lightly sand the edges of the PC board that contact the EFC housing.



Refer to the supplied EFC-1 operating instructions for use and maintenance of the EFC.