

# HILO Kit Installation

## HILO Kit Contents

D03-0247	WIRE TIE 5" PANDUIT #PLT1.5M-M	EA	12
E106-1011	CRIMP, 0.187" DISCONNECT SLIP-ON	EA	2
FH-7038	SEALTITE PVC 3/8"	EA	1
FH-7049	SEAL 3/8 STRAIGHT PVC W/NUT	EA	2
HF-7563	SEALANT TFE PIPE THREAD (3 OZ)	EA	1
TFH-2021	LIGHT RED NEON NO LEADS 125VAC	EA	1
WR-18BLK	WIRE 18 GA BLACK STRANDED	FT	1
WR-18WHT	WIRE 18 GA WHITE STRANDED	FT	1
HILO PIPETRAIN	HILO PIPETRAIN	EA	1

1. Remove contents from HILO package and verify that all contents are correct.

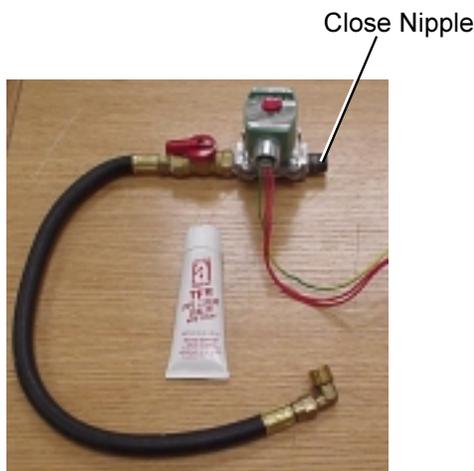


Plug A

Plug B

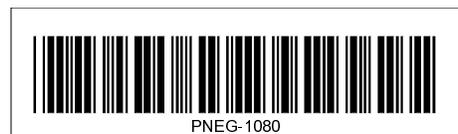
**Photo 1**

2. Remove TWO 1/2" NPT plugs from pipetrain on heater. (Plugs A & B, Photo 1)

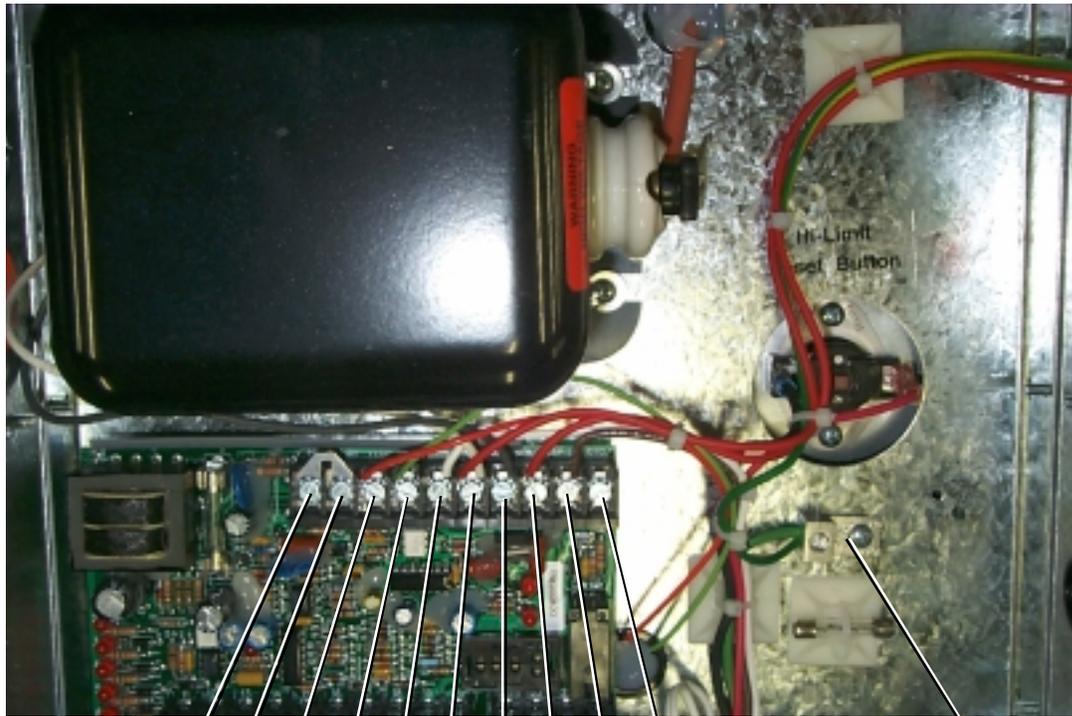


**Photo 2**

3. Apply a sufficient amount of pipe thread sealer to 1/2" close nipple on outgoing side of solenoid valve on HILO kit pipe train. (Photo 2)
4. Insert the Close Nipple (Photo 2) of the HILO pipetrain into heater pipetrain where Plug B (Photo 1) was removed. Tighten HILO pipetrain securely to heater pipetrain with a pipe wrench.
5. Apply pipe thread sealer to the 1/2" gas hose at the opposite end of the HILO train.
6. Insert gas hose where Plug A (Photo 1) was removed from the heater pipetrain. Tighten the hose securely to the heater pipetrain.
7. Assemble conduit and fittings onto the solenoid valve on the HILO pipe train.
8. Pull conduit and wires from solenoid up to control box and mark where the hole location will be.
9. Drill a 7/8" hole in the control box at this location and assemble conduit and wires through this hole.
10. Remove solenoid wire from terminal 8 (Photo 3) on the circuit board and move it to terminal 10 (Photo 3).



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Terminal: 1 2 3 4 5 6 7 8 9 10 Ground Lug

**Photo 3**

11. Place one of the red wires from the solenoid on the HILO pipetrain on terminal 8 (Photo 3) and the other red wire from that solenoid to terminal 5 or 6 (Photo 3). Place the green wire from the solenoid into one of the ground lugs located in the bottom of the control box.
12. You will now need to remove the black hole plug from the front of the control box located under the main indicator light. (see Photo 4)
13. Insert the red light into this hole.
14. Connect one side of the light to terminal 10 (Photo 3) with the black wire and .187 female slip on provided in the kit. Connect the other side of the light to terminal 5 or 6 (Photo 3) with the white wire and .187 female slip on connector.
15. Your HILO kit is now installed. Be sure to check all connections for secureness and check pipe train for leaks.



**Photo 4**