

**D38E KOMATSU DOZER  
UNDERSEAT HEATER INSTALLATION**

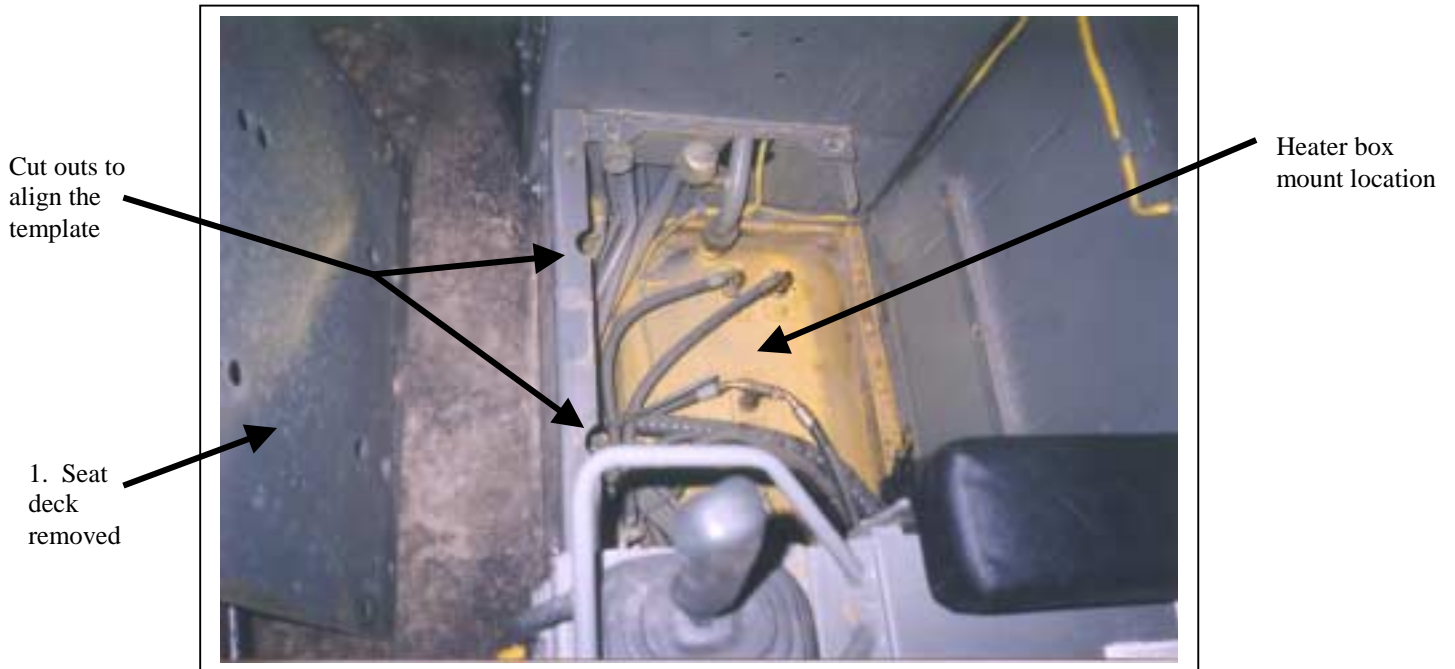
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**HAMMOND AIR CONDITIONING LTD**  
125 SAMNAH CRES  
INGERSOLL, ONTARIO  
N5C 3J7

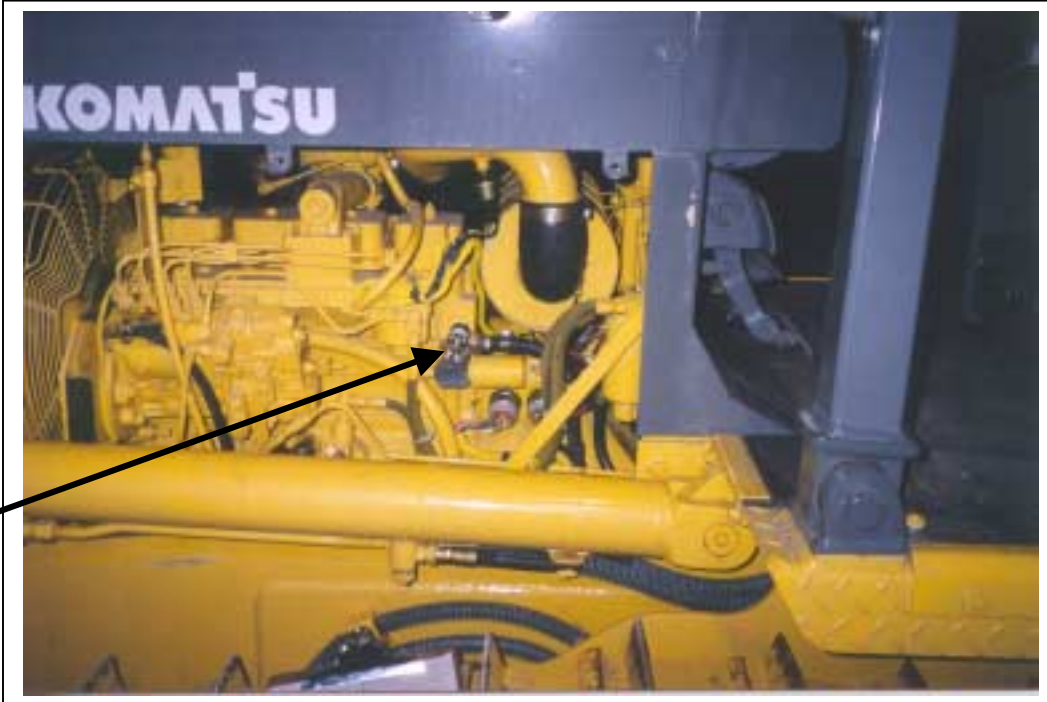
**(519) 485-5961 OR 800-267-2665**  
**(519) 485-3745 OR 888-267-3745**

**Pre-installation:**

- Steps:
1. Remove left and right hand side engine compartment panels Remove seat
  2. Remove seat deck from overtop of the transmission.
  3. Drain rad (via drain tap)
  4. Mark & drill mounting holes and 3 ¼” hole saw holes or holes for rectangular cut-out using the template supplied in the kit. Set the template against the vertical front surface of the seat platform and right rear mount bracket align its upper lip using the two semi-circular cutouts.



2.



Hot water shutoff valve and tie in point on the engines left side

3.

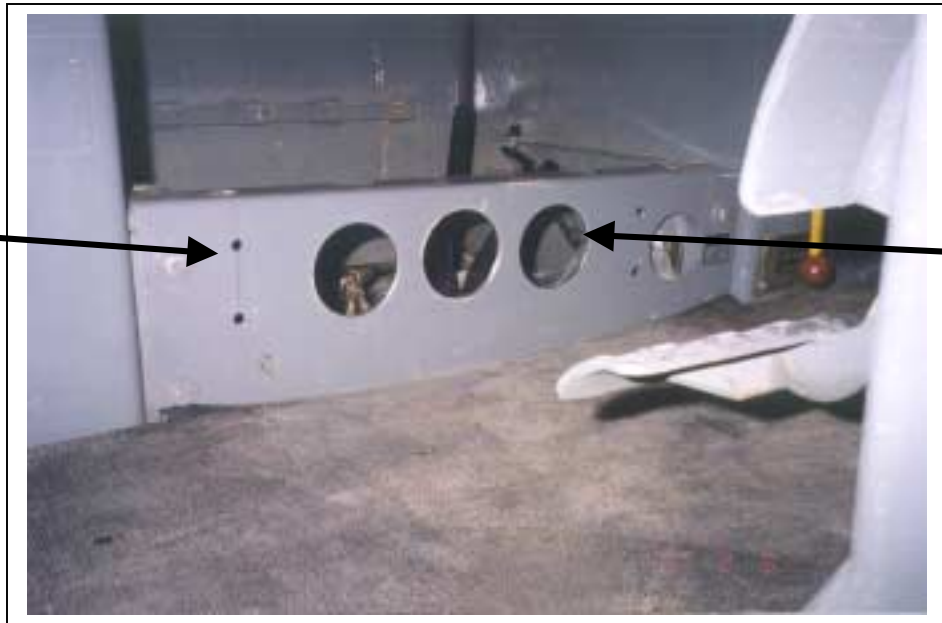


Heater outlets cut in vertical panel of the seat platform



Mark and drill with template supplied

Heater box  
mounting holes  
3/8"



3 1/4" hole  
saw holes.

### Heater Tap's & Hose Runs:

Steps: 1. Remove the plug from the rear left hand corner of the engine head and install the heater shut-off tap and fittings from kit with "Teflon tape" or pipe sealant as shown (pic #6)

6.



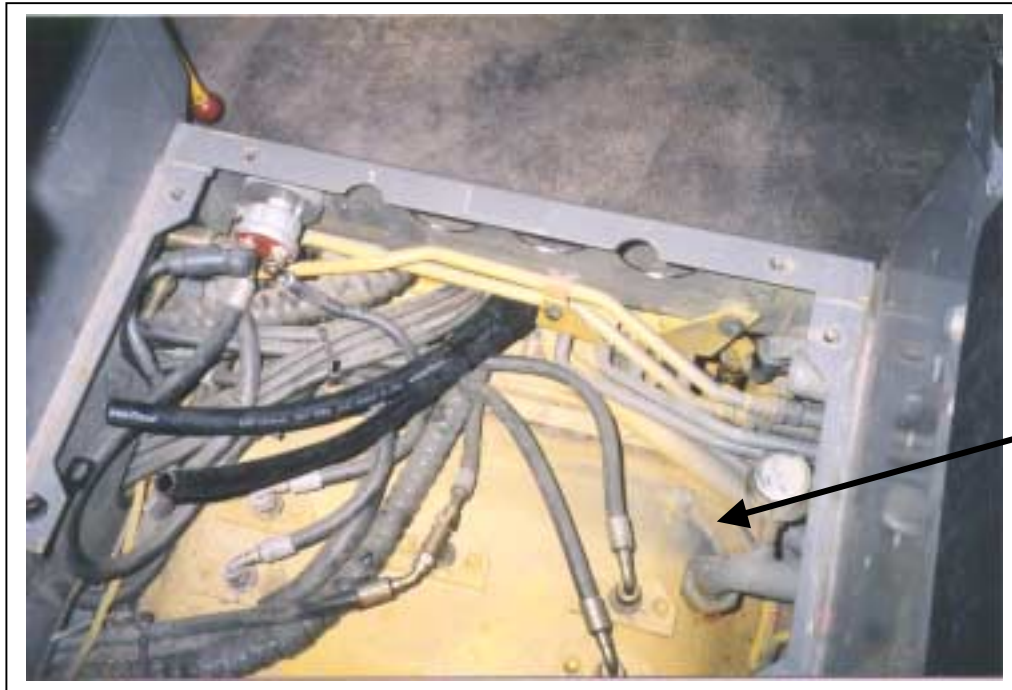
2. Remove the plug from the lower, front right hand side of the engine, just below the alternator. Install the heater shut-off tap and other fittings from kit with "Teflon tape" or pipe sealant as shown (pic #7)

NOTE: #10 gear clamp should be opposite (with screw on bottom) so that it will not interfere with changing the oil filter



3. Feed the 6' long 5/8" heater hose from the heater box mounting location, under the floor to the left side of the engine compartment and secure to the heater shut-off tap using a #10 gear clamp. Also feed the 7' long 5/8" heater hose from the heater box mounting location, under the floor panel to the right hand side of the engine compartment secure to the heater shut-off tap using a #10 gear clamp. Secure where necessary with tie wraps from kit see (pic # 8,9,10)

8.



Heater  
box  
mount  
location



Left side

10.

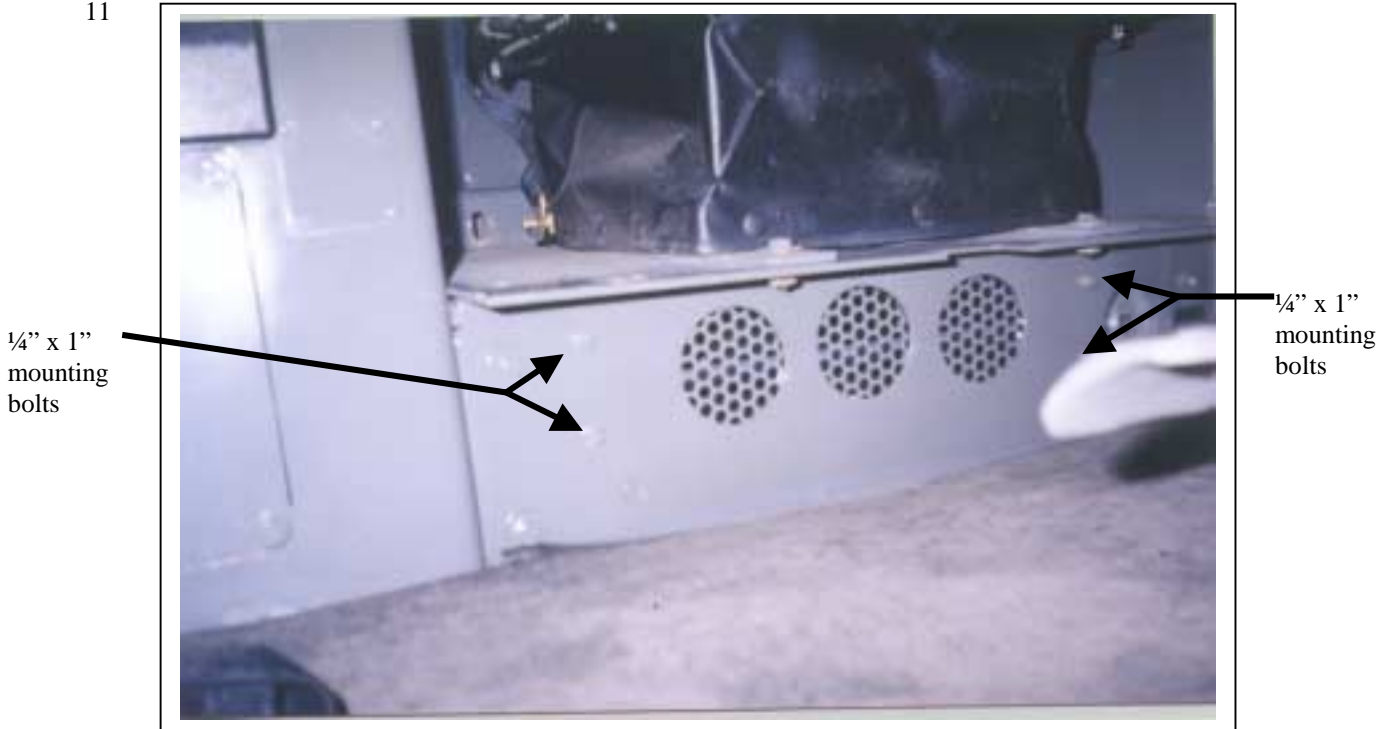


Right side

**To Mount Heater Box:**

- Steps: 1. Place the heater box in the mounting location (under the seat) tight to the front/  
2. Secure the front of the box using the hardware supplied in kit, four 1/4" x 1" bolts, lock, flats (pic # 11)

11

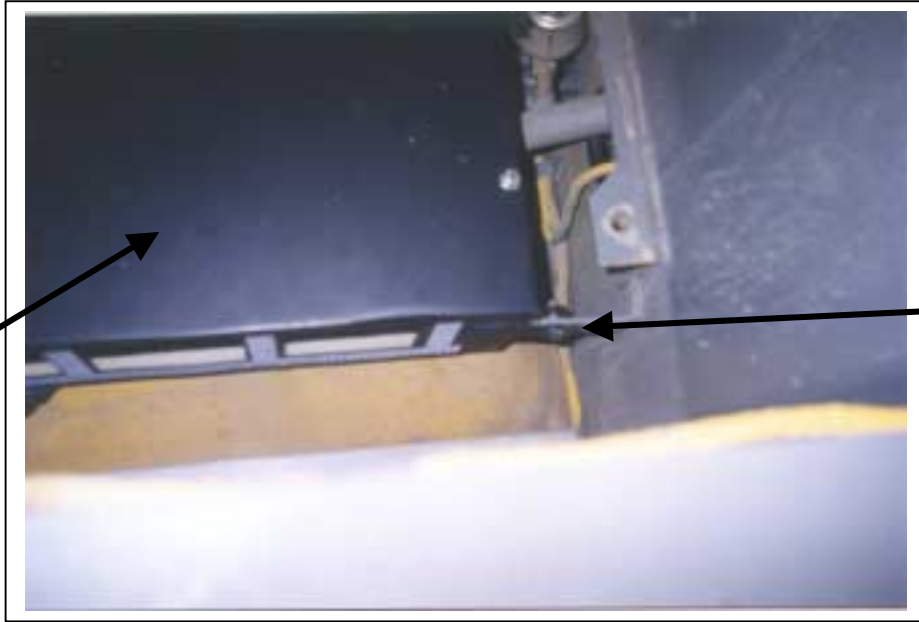


3. Secure the rear right hand side mounting bracket using the hardware supplied. One 3/8" x 1" bolt, lock, nut, two flats (See pic # 12)



12.

Heater box



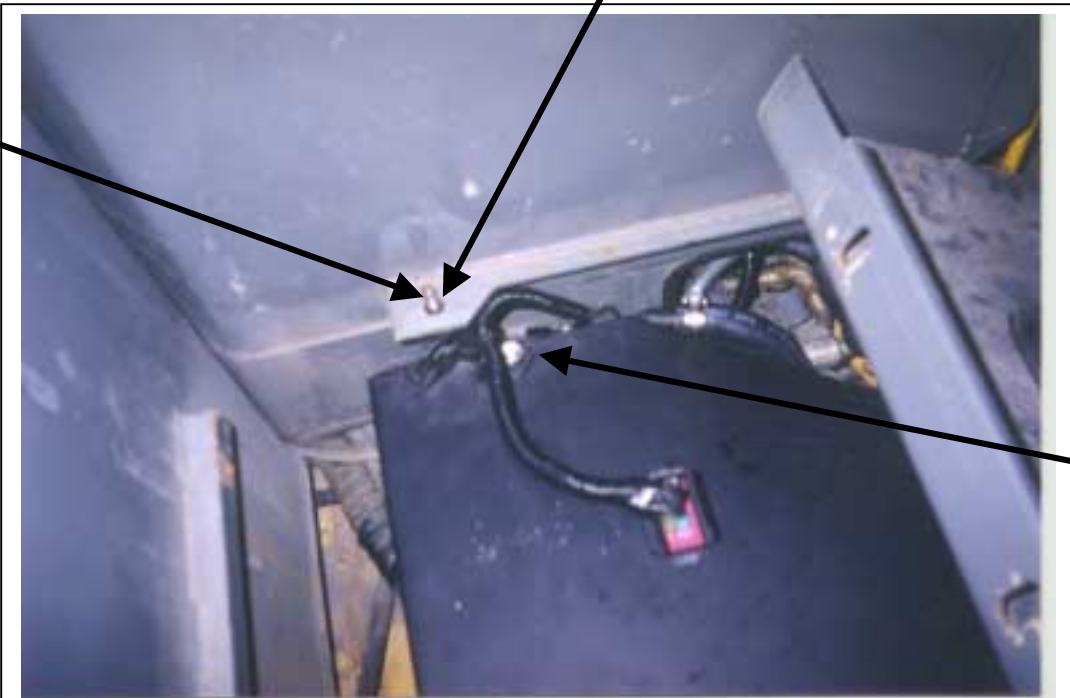
Right rear  
mount  
bracket  
installed

4. Drill the rear left hand 3/8" weld nut on the seat deck mount bracket out to 1/2" and mount the "z" bracket with 3/8" stud to the heater box lid with 1/4" x 1" bolt, lock and flat. The 3/8" stud comes up through the 1/2" hole. When the installation is completed and tested place the seat deck back in place. The 3/8" stud will come up through the original hole. Use a flatwasher, lockwasher and nut to secure stud.

3/8" weld stud

13.

3/8"  
weld  
nut  
drilled  
out to  
1/2"



1 x 1/4" bolt,  
lock, flat

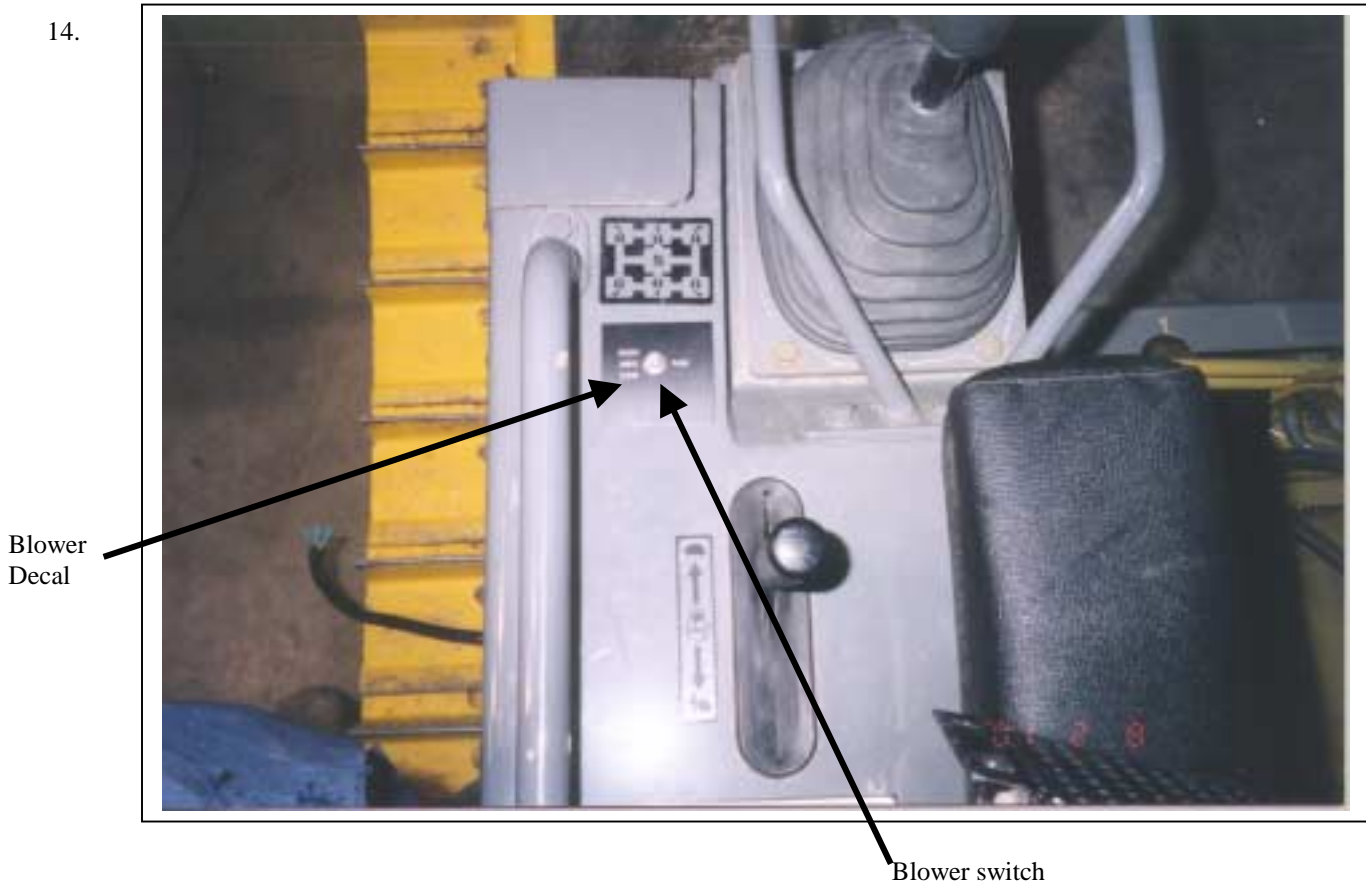
5. Secure the heater lines to the coil with #10 gear clamps, making sure that the 6' line is on the inlet side of the coil and the 7' line is on the outlet side of the coil. NOTE: Lines from heater box will be marked

**Wiring:**

**Steps:**

1. Drill a (7/16) hole on the left side control panel and mount blower switch and decal (see pic # 14)

14.



2. Remove (1) 3/8 bolt from inside battery panel and use to secure the relay/breaker mounting bracket. (see pic # 15)

15.

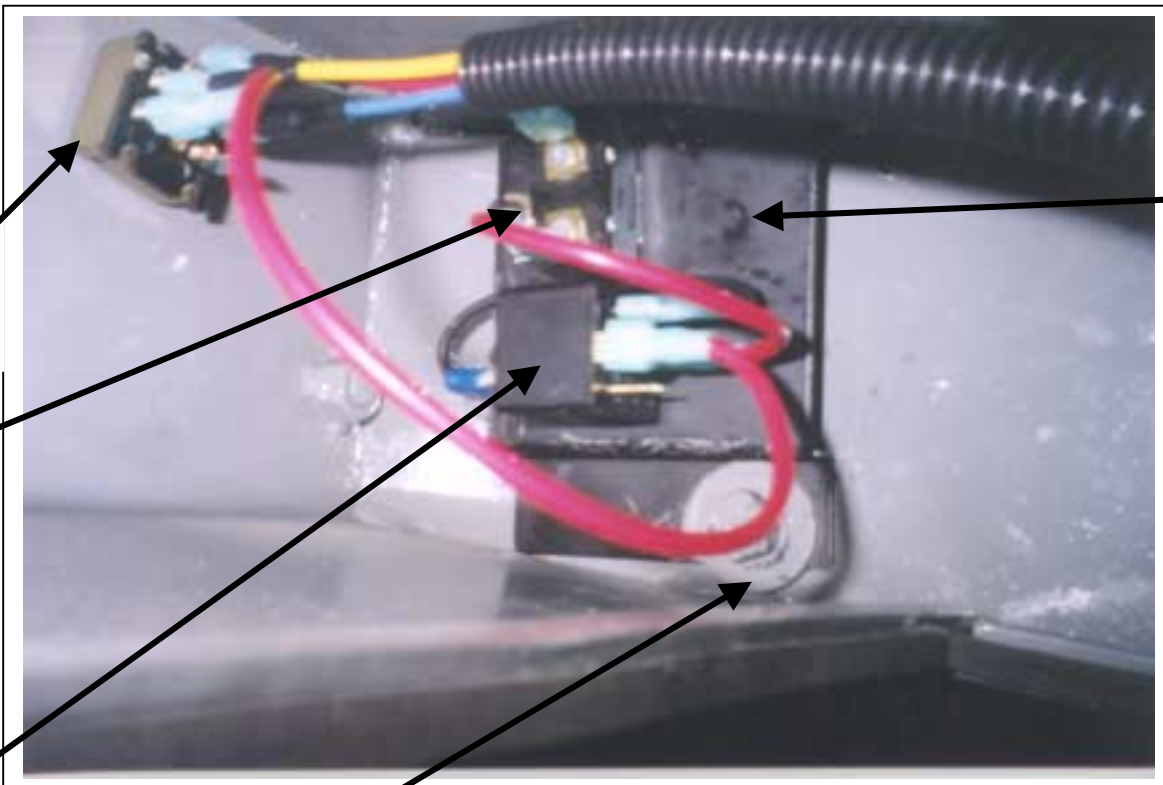
Blower switch

Self resetting breaker

12 volt relay

Existing 3/8" bolt used to mount relay/breaker bracket

Relay/breaker mounting bracket

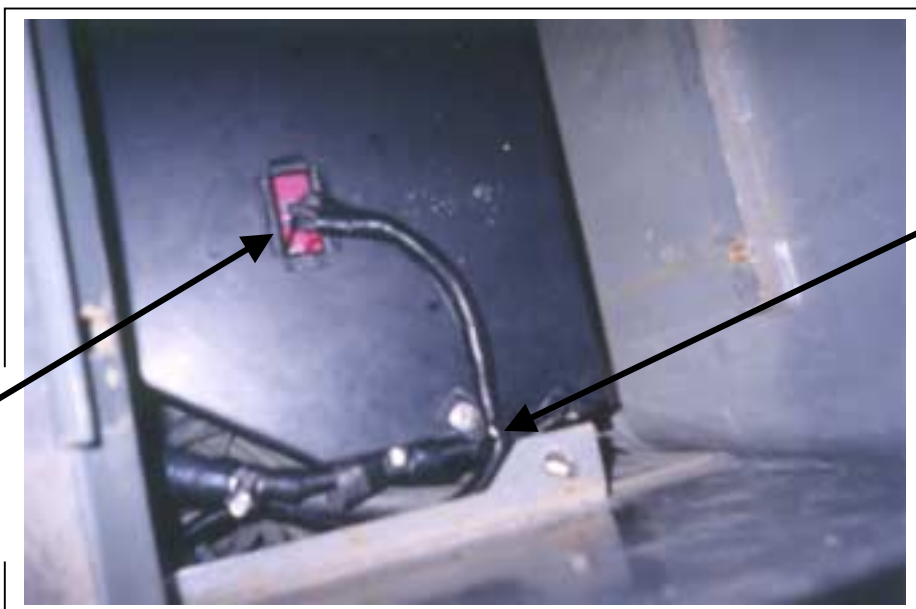


3. Run (low, med, High) fan power wires to box (see pic # 16)

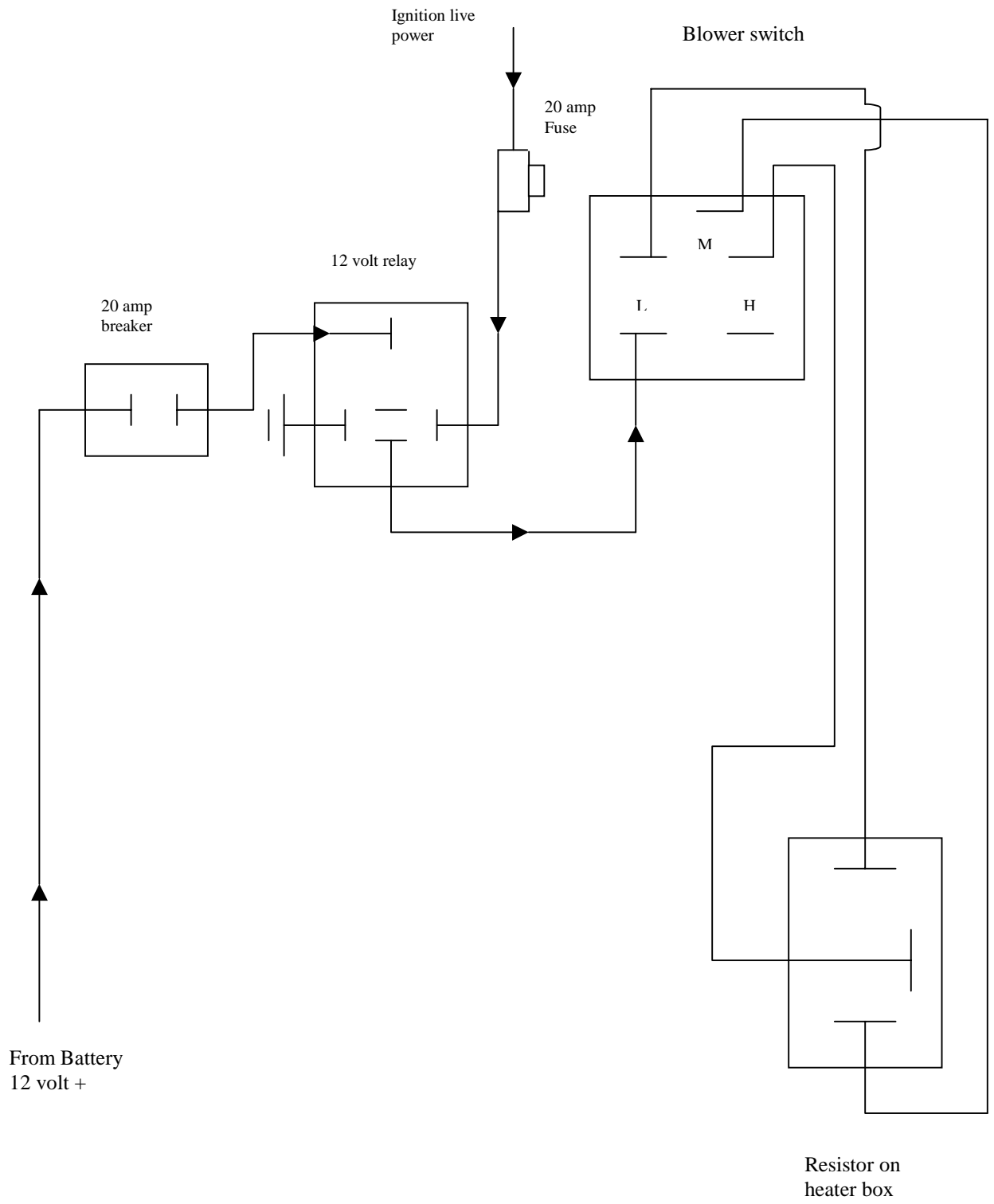
16.

Blower wiring at the resistor

Secure wire loom to "Z" bracket with a tie wrap



# Wiring Diagram



**Re-assembly:**

Steps:

1. Re-fill rad (make sure tap is off)
2. Open heater shut off taps
3. Reattach seat deck using original hardware and (3/8) nut, flat, lock supplied by Hammond.
4. Reattach seat using original hardware
5. Reattach side panels for engine compartment, use original hardware

**Maintenance:**

1. Shut off heater taps in summer
2. Open heater taps in winter
3. To change or clean filter via rear access panel or remove bolts from seat deck and slide forward