

GMC Eastern States Rally

Atwood (Hydroflame) Furnace Installation

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June 22, 2004

SPECIFICATIONS

(W.C. = Water Column)

MODEL #	8516-IV	8520-IV	8525-IV	8531-IV	8535-IV
BTU Input	16,000	20,000	25,000	30,000	34,000
Duct Static Pressure	20" W.C.*	10" W.C.*	10" W.C.*	10" W.C.*	10" W.C.*
12 Volt Amperage (AMPS)	4.6	4.6	7.6	7.6	9.8
Watts	55	55	91	91	118
Power Supply (VOLT DC)	12	12	12	12	12
Recommended Return Air	80 in ²	80 in ²	80 in ²	80 in ²	80 in ²
MINIMUM RETURN AIR	65 in²	65 in²	65 in²	65 in²	65 in²

DIMENSIONS

ALL MODEL	WIDTH	HEIGHT	DEPTH
Casing	16-1/2"	7-3/8"	18"
Door	19-1/4"	9-1/4"	1/4"
Recess Bezel	20-9/16"	11-1/2"	

WEIGHT

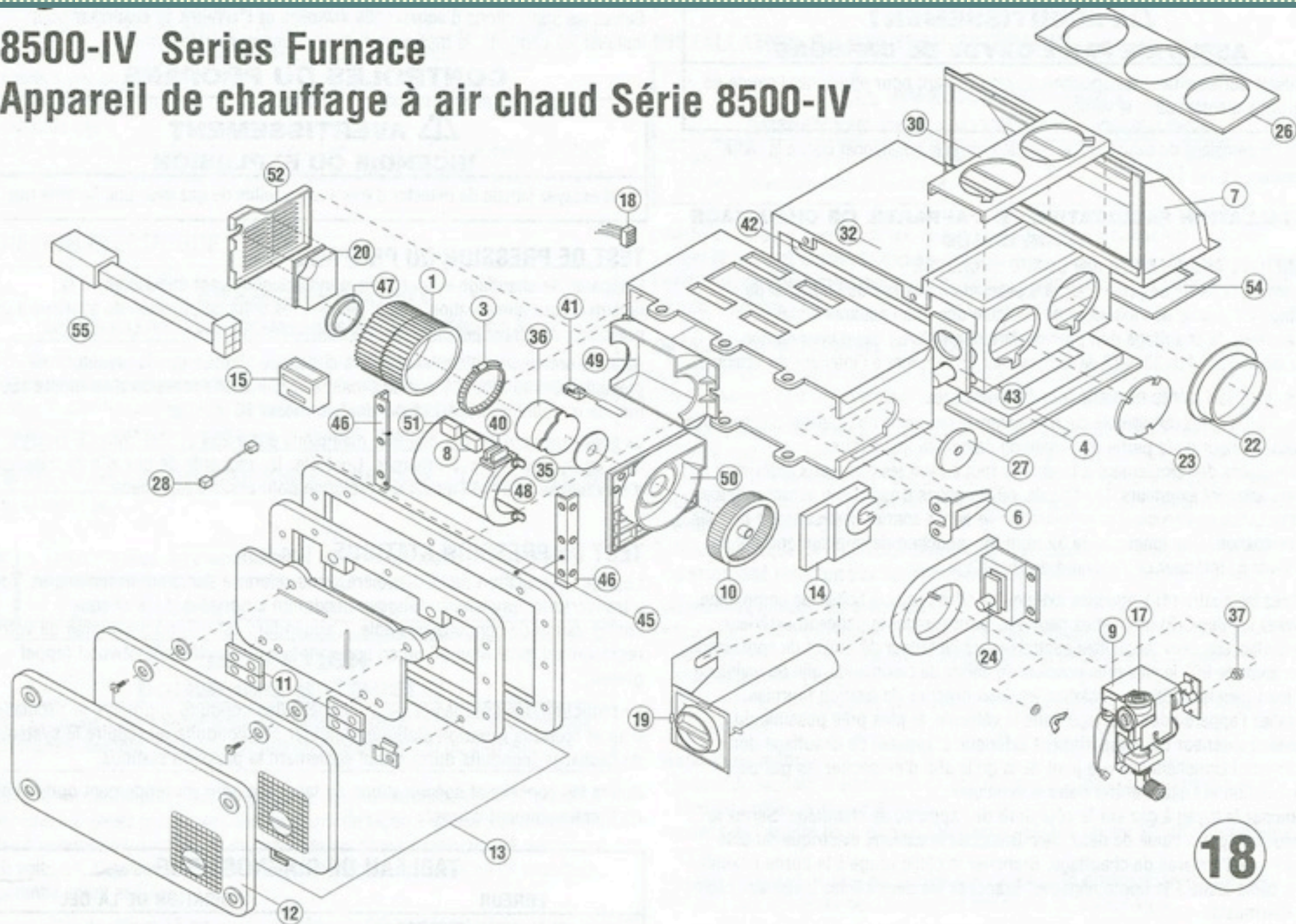
FURNACE	30 lbs
SHIPPING	32 lbs

Required Minimum Discharge - (also see STATIC PRESSURE TEST)

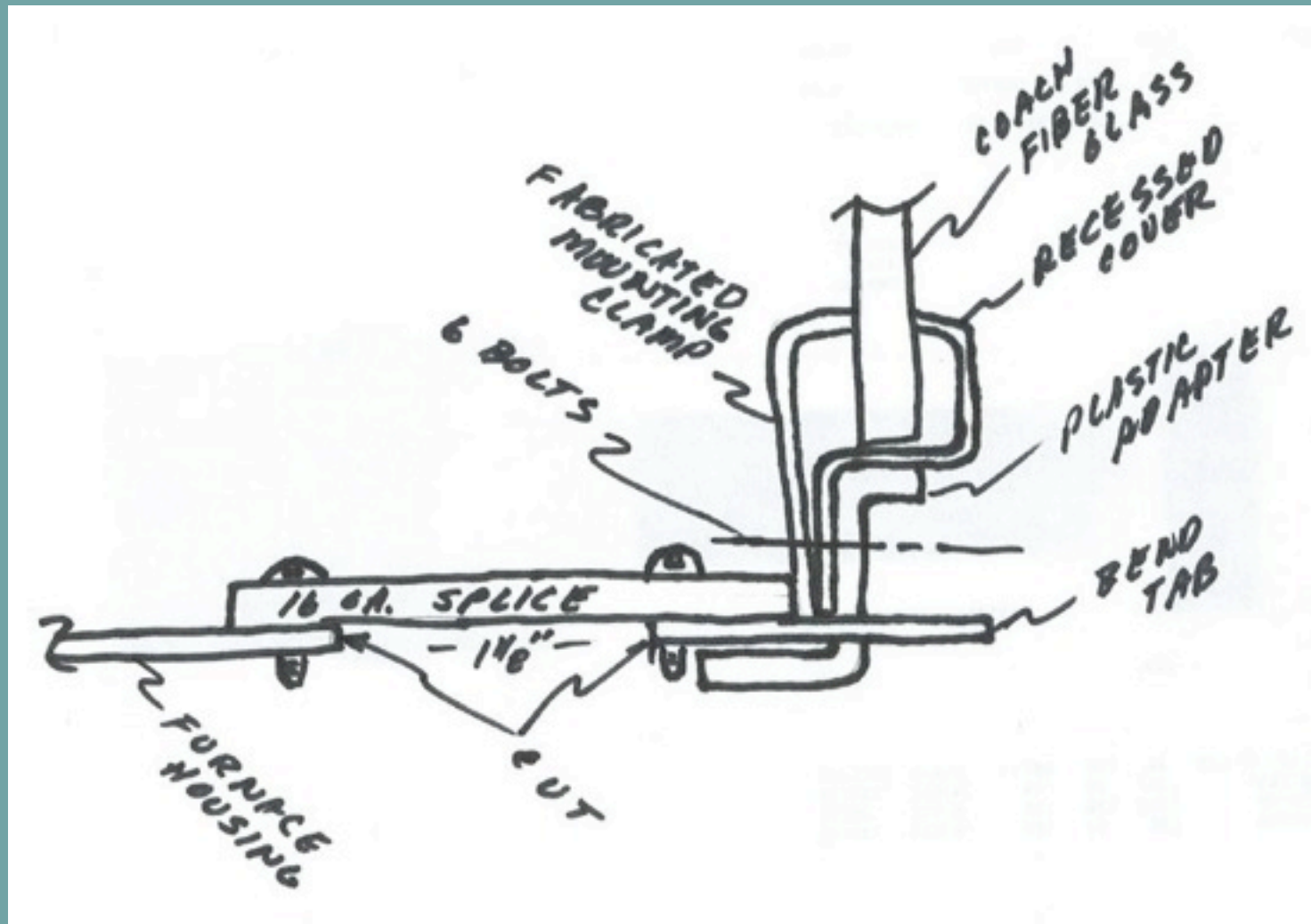
MODELS	REQUIRED DISCHARGE
8516-IV, 8520-IV	24in ²
8525-IV & 8531-IV	36in ²
8535-IV	48in ²
ALL MODELS - TOP OR BOTTOM DISCHARGE SYSTEMS.....	48in ²
8525-IV, 8531-IV, 8535-IV VERTICAL INSTALLATION	48in ²
(EXCEPT WHEN USING THE THREE REAR DUCT OPENINGS)	

8500-IV Series Furnace

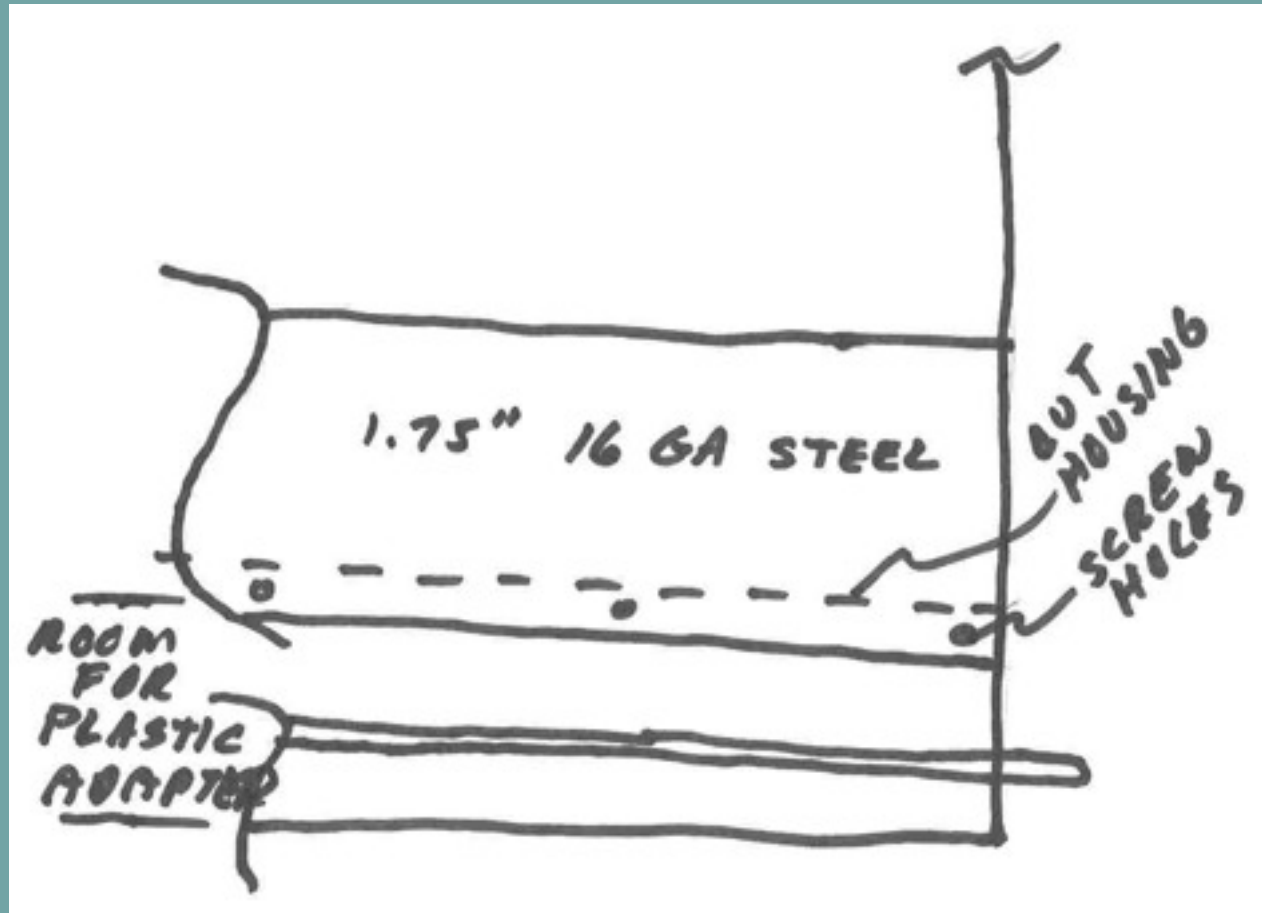
Appareil de chauffage à air chaud Série 8500-IV



- ◆ BIGGEST JOB - MODIFY FURNACE HOUSING
 - ◆ Finished cross section should look like this:

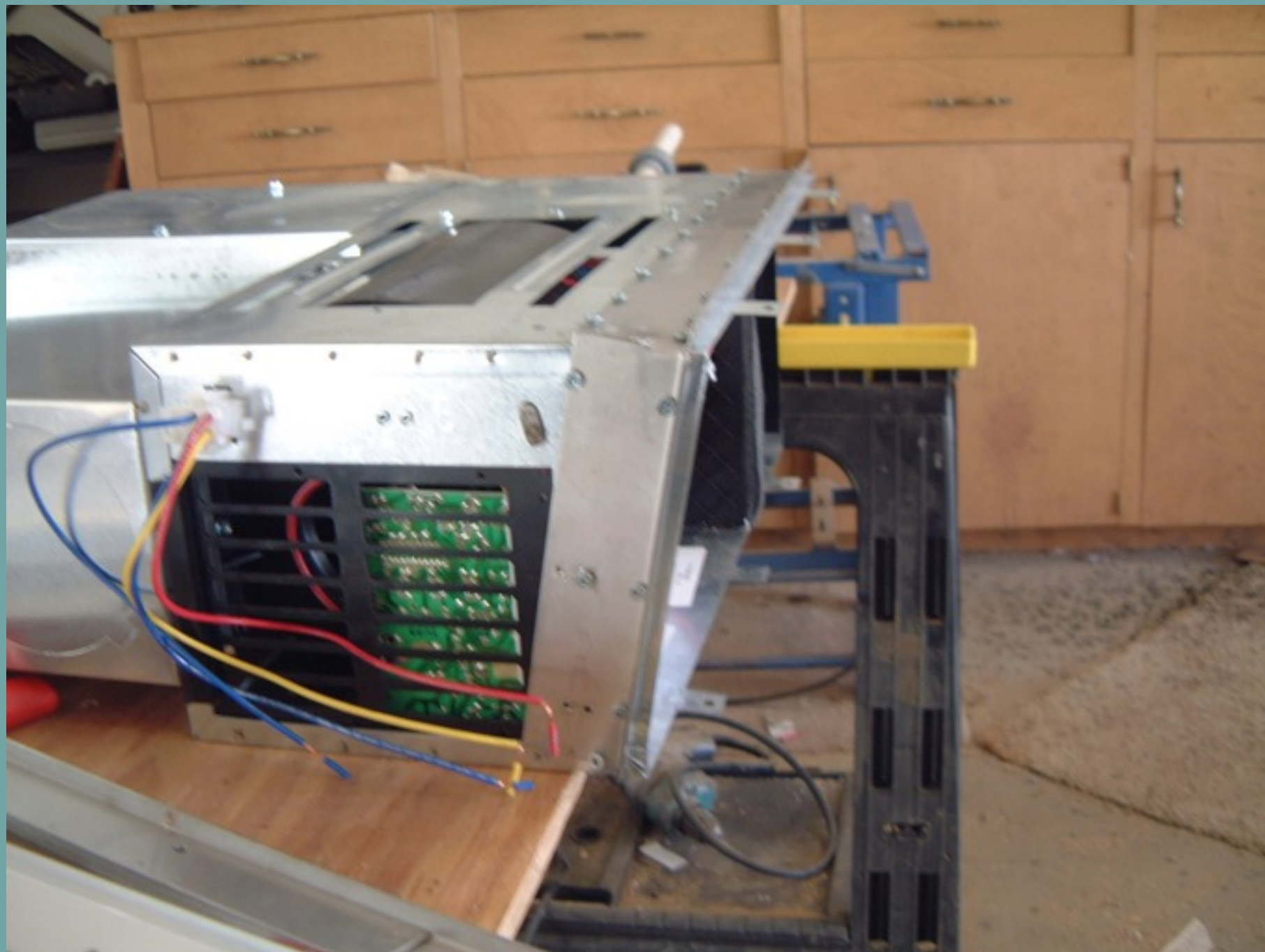


- ◆ Procure a piece of 16 ga galv. Steel 1.75" wide and the length plus height of the housing
- ◆ Lay across top of housing .5" or so back from housing flange
- ◆ Drill holes for self tapping screws approx two inches apart across the top. Make sure screws are far enough back from the front edge to allow plastic adapter to fit in housing
- ◆ Cut housing at dots



- ◆ Cut housing, separate 1 1/8", drill and fasten other side of splice

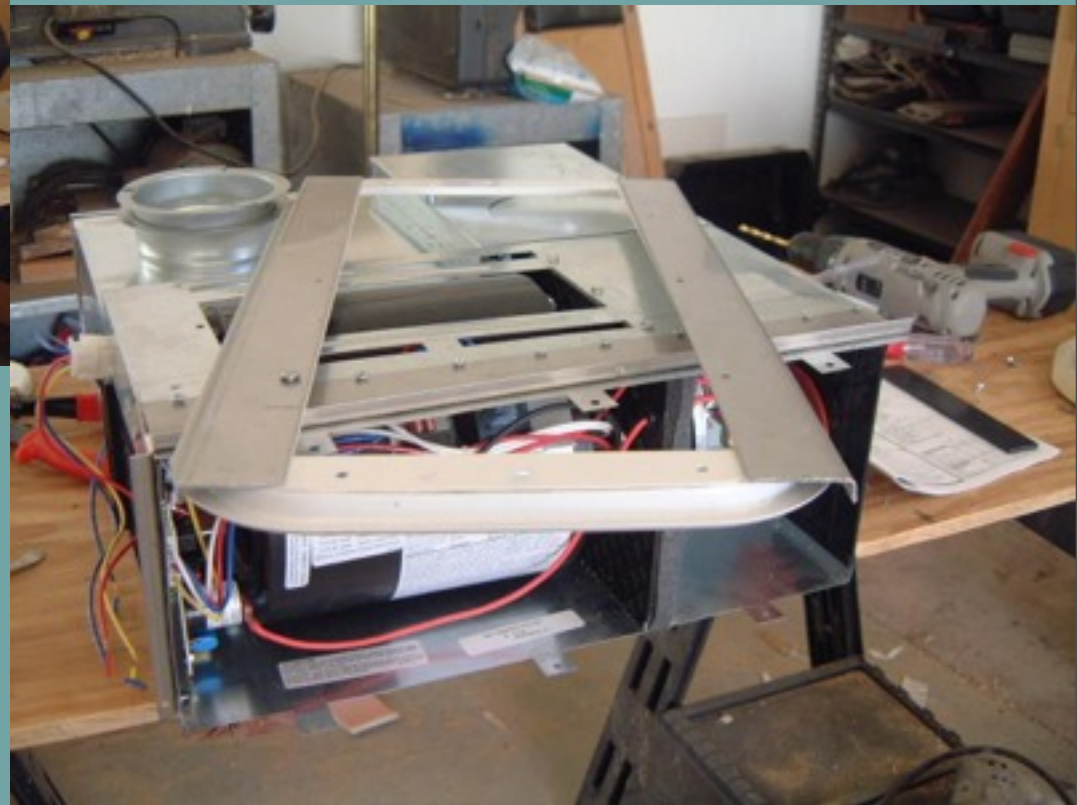
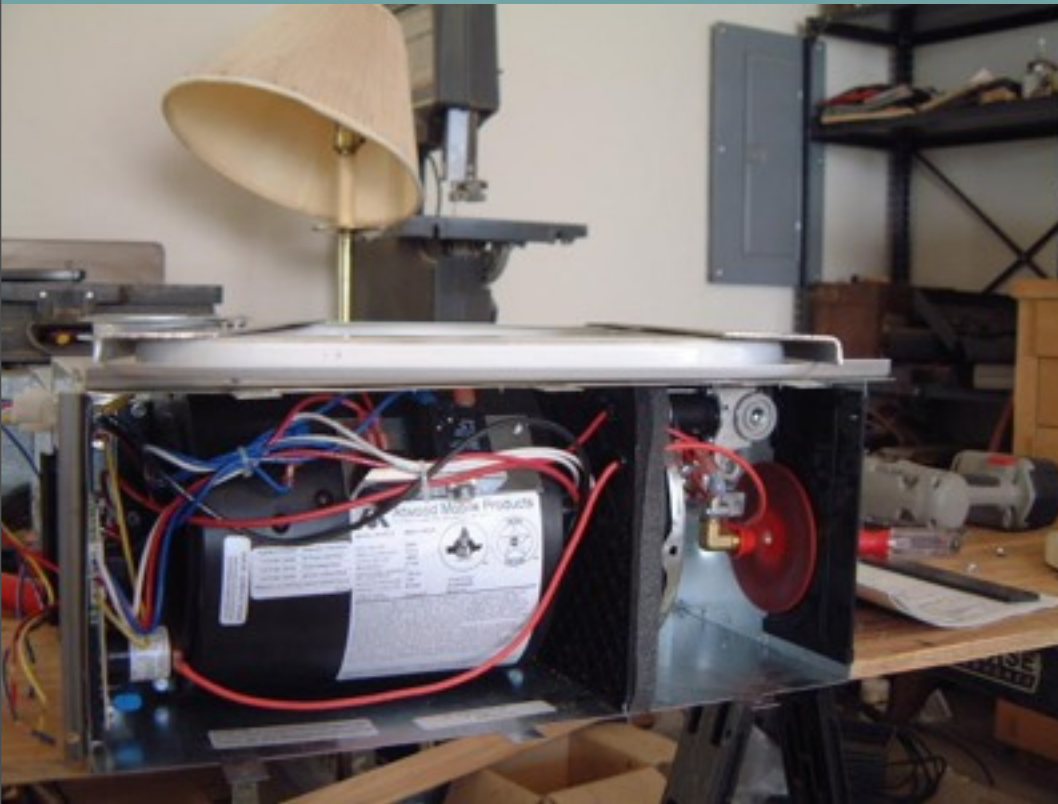




- ◆ View with plastic adapter loosely installed

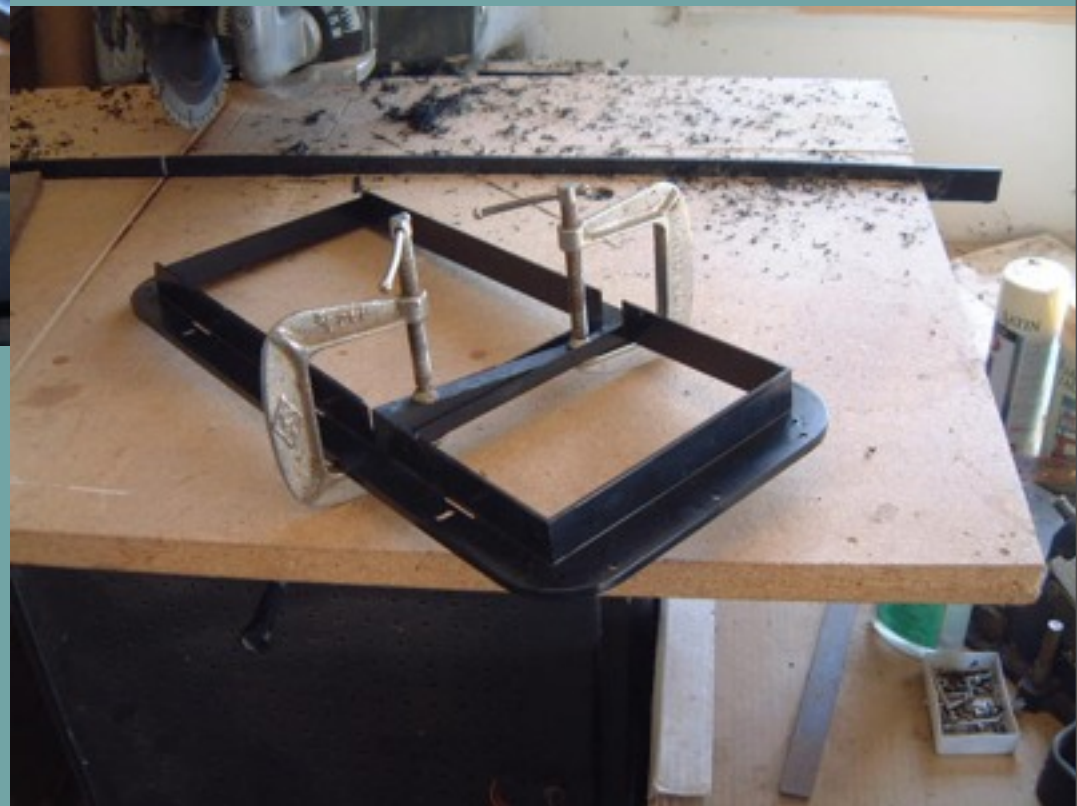


- ◆ Fabricate “L” shaped mounting clamp w/ $\frac{1}{4}$ ” lip



Seal fresh air/exhaust compartments

- ◆ Find some $\frac{1}{4}$ " thick ABS sheet molding material
- ◆ Fabricate 3 rectangular pieces $1 \frac{1}{8}$ inch wide by the height of the furnace housing
- ◆ Glue the three pieces together
- ◆ Cut the triangular shape to fit
- ◆ Glue to plastic adapter and let dry



- ◆ Plastic adapter, recessed cover, mounting clamp loosely assembled on furnace tabs



Cut hole in coach (very carefully!!)

- ◆ Put at least 1" spacer under furnace, slide into position
- ◆ Mark the housing corner locations on the fiberglass
- ◆ Drill a small hole at each of the four locations
- ◆ Go outside the coach and use the recessed cover and the four drilled holes as guides to mark hole opening. Note hole opening is not symmetrical about the furnace housing!!
- ◆ The hole should be 10" x 19 1/2 " with 2 1/8" radius corners
- ◆ A small air grinder works OK to cut the glass – be careful!!

- ◆ Finished cut & cover, plastic adapter, and clamp in position and bolted. Note sealer around cover



Finishing Touches

- ◆ After the sealer dries, slide furnace into place
- ◆ Remove the six attaching bolts
- ◆ Bend tabs so that the holes align with the six bolt holes and reinstall bolts
- ◆ Attach rear of furnace to the floor using wood spacers
- ◆ Hook up 12V, thermostats, ducts, and gas, and you are ready to go.

◆ Outside before and after painting



- ◆ Got an extra shelf as a bonus, and a place for jack

