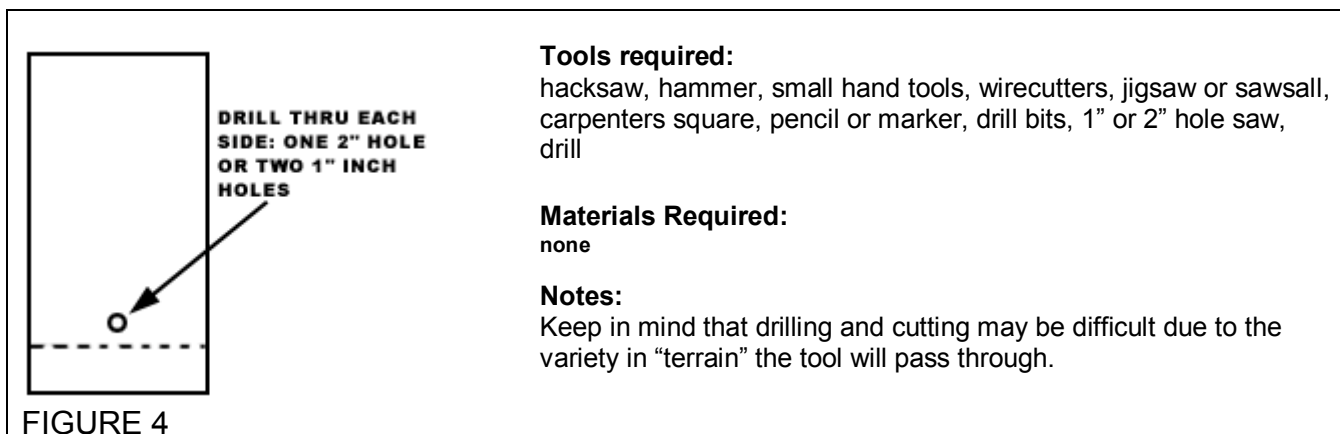


To maintain this air flow, you will need to drill (1) two inch hole or (2) one inch holes through the vertical walls of your fridge, left and right at the bottom of the smoke chamber. No insulation should be exposed when we are done so we will need to make a pipe of sorts to go through these holes to provide a clean source of fresh air later on.



**Tools required:**

hacksaw, hammer, small hand tools, wirecutters, jigsaw or sawsall, carpenters square, pencil or marker, drill bits, 1" or 2" hole saw, drill

**Materials Required:**

none

**Notes:**

Keep in mind that drilling and cutting may be difficult due to the variety in "terrain" the tool will pass through.

**Procedures:**

Determine if you have either a 1" hole saw or 2" hole saw. If you have either of these great, use the two inch as it will be less work. Drill one two inch hole on each side 2-3 inches above the floor of the heat chamber. If a one inch hole saw is used, make two holes on each side of the fridge a few inches apart.

If you do not have any hole saws, you can use a compass to layout and make cutouts like you did with the smoke chamber and flue by step drilling a smaller hole up to a larger diameter and cut out with a jigsaw or sawsall.

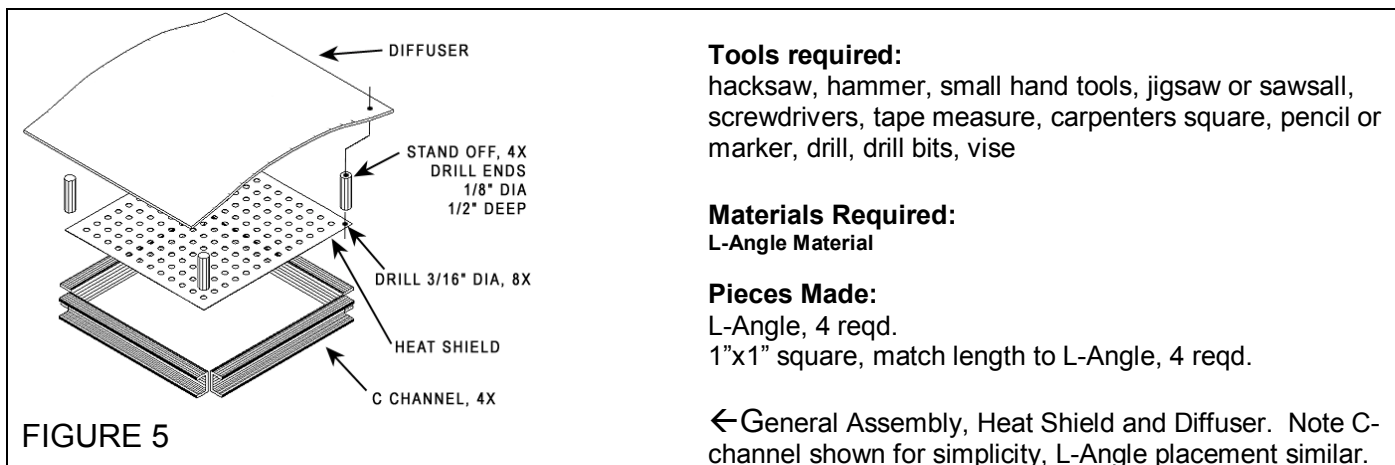
**Parts Fabrication: General**

For reference, there will be steps requiring temporarily assembly to determine aspects of parts fabrication and hole placement as we go. In some cases it may be good to temporarily attach pieces with a screw or two to keep things still while you are drilling, assembling or making pilot holes. This is most important when making a pilot hole pattern that other parts attach to or thru. You do not want your holes to be off later on so keep things tight! If something doesn't match up later, you can "*match drill*" the holes to the correct size and location. DO NOT PERMANENTLY ATTACH ANYTHING UNTIL FINAL ASSEMBLY UNLESS SPECIFICALLY TOLD TO DO SO.

**Parts Fabrication: Pass Thru Caps (options A or B)**

Next we have to close the edges of the *pass thru* (the big cut out in the bottom of the fridge) and prepare a *base* for the *Heat Shield / Diffuser Assembly* to attach to. See Figure 5 for pictorial details. You can do this a couple ways. You can use either aluminium L-angle or scrap tin bent in the form of a "C" otherwise known as C-channel. Use whichever material is cheaper for you to come by, however the C-channel method while cheaper and easier takes a little more time to fabricate.

**Parts Fabrication OPTION A: L-Angle Method, Pass Thru Cap**



**Tools required:**

hacksaw, hammer, small hand tools, jigsaw or sawsall, screwdrivers, tape measure, carpenters square, pencil or marker, drill, drill bits, vise

**Materials Required:**

L-Angle Material

**Pieces Made:**

L-Angle, 4 reqd.  
1"x1" square, match length to L-Angle, 4 reqd.

← General Assembly, Heat Shield and Diffuser. Note C-channel shown for simplicity, L-Angle placement similar.