Finish weld, tack, and then weld using a nylon square up assembly. Position and weld all pieces.

Tack weld, supassemble, and tack-weld on your pieces on position opposite. Tack weld, reassemble weld table, and shop floor or position parts.

Apply two coats of rust oleum hammerstone paint.

Apply one coat of zinc rich primer.

Sand checked in drill with 90 grit sandpaper.

Prepare all surfaces. Grind off slag.

Finishing
4' x 10' sheet of 10 ga. mild steel

- Fire box
- Smoke Chamber
- Lid
- Firebox (end view)

Soup can lid damper pivots on bolt, second bolt acts as handle
Step 1: Make 2" dia.
Cut a hole with a drill,
Cut here.

Step 2: Make 3-sided
Cuts with a hole saw,
Set up.

Parts
Water Grill
Grates:

Support Grates
Smoke chamber
to sides of iron welded
iron angle

Rivet lugs in place
Paint outside of lugs
and firebox with high-temperature paint
Paint outside of smokebox
Scrape+Thimble or other
Clean and degrease

Grind 1/2" radius on all lugs
Rounding all sheared edges
Painting/Assembly
Firebox
1/2" x 1/2" bolt
5/16" stud
Serves as mounting stud. Allows firebox to be easily supported while vent is inserted and assembled.

Smoke Chamber
2-1/2" dia.
R-1/2" vent hole for vent assembly

Vent Assembly
- One 2" closed nipple
- One 2" union disassembled

See photo