

DHR-34 Bench Top Oven Instructions

GOODSON

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DHR-34

Before you begin:

- Locate a place on your bench that is reasonably level so the oven won't rock.
- Heat dissipation is minimal so you'll need about 6 to 8 inches of open space around the oven.
- Mount oven to bench through holes provided at each corner of base flange.

Electrical: At the right rear of the oven, remove the cover on the electrical box. The white wire is the neutral leg and the two black wires are the hot legs (220v 1ph). Be sure your supply wires are connected tightly and covered with wire nuts.

Note: Current draw is 10 amps.

Things to Remember:

1. Spray a small amount of Anti-Seize lubricant on the track/hinge assembly and threaded rods.
2. Long thin heads straighten much easier than short stocky ones.
3. One hour at 350° will usually do the job.
4. Cool down time is about one hour with the door open
5. It's always better to do it twice than go to far the first time.
6. If you get a "tuffy" you can do three things
 - a. Increase the temperature
 - b. Increase the bend past straight
 - c. Slow the cool down time
7. Keep you log book up to date
8. If a seat falls out, just say "Thank You". It may have just saved you a come back.
9. Be sure head surface is clean
10. Remember-Think Simple...
11. Prove to your customer that the camshaft turns freely in the head. He may have a warped block.
12. Keep you log book.

Using the Oven

Heads without Cam Towers:

- For the most part, these heads are the easiest. Just pull them down flat on the grate heat-and let cool.
- The hardest heads we've found in this category are the 1300 and 1400cc Renault.
- You may have to shim them slightly, and bend beyond straight.

Heads with Cam Towers:

With this style head, your only concern in the straightening process is to make the camshaft turn freely in the cam tower. The deck will probably need to be surfaced also. Remember - long thin heads straighten much easier than short stalky ones.

Example:

1. Inspect the cam bore for burrs and smoothness.
2. Make sure the head surface is clean.
3. Lay head on the grate and put clamp bar in place. Pull clamp down until it just touches the head and is held in place.
4. Insert the round straight edge and feel the roching motion.
5. Pull the head down until the rocking motion stops.
6. A good test at this time is to put the camshaft in and make sure it turns freely.
7. **Important:** You don't want an air gap between the head surface and the grate. Insert a feeler gage between the two for a stop. If this isn't done, as the head heats up it can coast and go beyond straight.
8. There will be times when you will have to shim the ends of the heads because the cam tower has more bend than the head surface.
9. Most Times: Long heads-Just pull them down to straight
Short Heads-Pull them a couple thousandths beyond straight
10. For Ford Escort heads you must use the camshaft for the straight edge.
