

**Servicing Core Drills:**

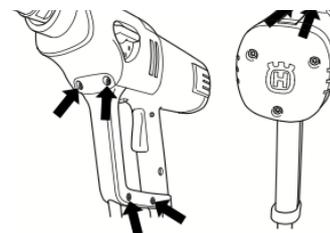
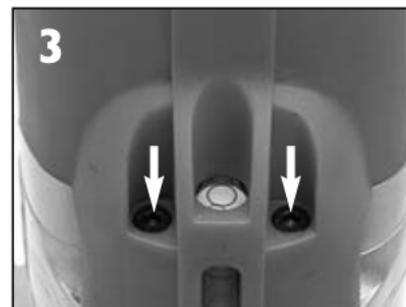
Change oil, replace brushes or re-tension the safety clutch. This example uses a Husqvarna DM230, but many machines are a similar design.

**Disclaimer:** Do not attempt this rebuild unless you are competent. Always consult your operation manual first.

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Changing oil - check manual for service interval (every 400hrs on DM230)

1. Put in a low gear.
2. Mount vertically (spindle downwards) in a vice (do not damage output shaft thread) or hole in your bench. This prevents gear oil spilling.
3. Remove the four screws (6 on DM230, as shown) and gently lift off motor and handle off gearbox. It will be tight, but do not lever upwards as you will damage the flat sealing area of the gearbox case. Do not allow motor armature to drop out.



4. If changing oil, tip out old oil and replace with correct volume and type of gear oil as specified in your drill manual. A DM230 uses 250ml. If in doubt, measure the oil you take out and replace with a similar amount.
5. Replace two O rings (DM230) or gasket if there is one.
6. Re-assemble, test run and check for any leaks.

### Re-tensioning clutch:

Carry out step 1-3 as above.

4. Note any shims on top of clutch shaft.

5. Remove clutch assy- a gentle lift upwards may do it, or as per diagram no. 2, so not to damage gearbox case.

5. Place clutch into vice with soft jaws and hold tight.

6. Using special tool (shown below, available from UDT) and torque wrench, tighten clutch to factory specification.

Setting can be from:

- 12 Nm or 9 lbf/ft (Weka DK12/13/14/16/18 and some Tyrolit)
- 15 Nm or 11 lbf/ft (Husqvarna DM230 and Dymaxion PCD1700HH)
- 16 Nm or 12 lbf/ft (Husqvarna DM220)

7. Put clutch assembly back into the gearbox, wiggling into place so gears mesh. Test by turning output shaft and making sure gears turn.

8. Put any shims back on top of shaft.

9. Now is a good time to change oil - see above.

10. Put motor back into place, aligning pin with hole in the gearbox case (if one).

11. Tighten up screws.

12. Re-assemble, test run and check for leaks.

**Replacing brushes** - brushes are a wearing item so replace when approximately half new length.

1. Disconnect and tape up 3 pin plug so it can't be plugged in.
2. Undo screws and remove brush cover at back of motor
3. Lift brush spring (1) to one side - a little wire hook is ideal.
4. Undo brush wire screw (2) and remove brush (do not drop in motor!)
5. Replace with new brush (3), doing up screw and putting spring back.
6. Repeat on other side.
7. Some manufacturers suggest running the machine run for 10 mins to bed in new brushes.

