

Hejny Rentals, Inc.

Contractor, Lawn & Garden, and Party Equipment Rentals
1829 White Bear Ave. - Maplewood, MN 55109
Phone: 651-770-3841 – Fax: 651-770-1725
www.hejnyrental.com

Hilti DCH300 Electric Concrete Saw

WARNING

The supply cord must be disconnected from the electric supply and the cutting disc or drive spindle must have come to a complete stop before attempting to change or adjust discs, parts of the tool or its accessories.

CAUTION

The mains voltage must comply with the specification given on the type identification plate. Ensure that the power tool is disconnected from the electric supply.

CAUTION

Wear protective gloves, especially when changing discs, adjusting the guard (hood) and when fitting the hood extension with depth gauge.

WARNING

Never use the power tool without the guard (hood).

NOTE

If the guard (hood) clamping force is found to be inadequate, this can be increased by tightening the clamping screw slightly.

Fitting and Adjusting the Guard

1. Disconnect the supply cord plug from the power outlet.
2. Use the hex socket wrench to release the clamping screw.
3. Fit the guard (hood) onto the collar on the gearing section.
4. Rotate the guard (hood) into the desired position.
5. Use the hex socket wrench to tighten the clamping screw.

Removing the guard (hood)

1. Disconnect the supply cord plug from the power outlet.
2. Use the hex socket wrench to release the clamping screw.
3. Rotate the guard (hood) and pull it away from the tool.

Depth gauge

DANGER

The hood extension with depth gauge is to be used exclusively for cutting mineral materials with diamond discs.

Fitting / removing the hood extension with depth gauge

1. Disconnect the supply cord plug from the power outlet.
2. Fit the hook over the guide wheel axle.
3. Pivot the hood extension into the hood until the catch is heard to engage.
4. To remove the hood extension, press the catch and pivot the hood extension down and away from the hood.

Using the depth gauge to adjust cutting depth

1. Press the cutting depth sliding indicator.
2. Move the cutting depth sliding indicator to the desired cutting depth.

Fitting a cutting disc

DANGER

Use only the metric-size clamping flange and the wrench supplied with the power tool.

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CAUTION

Use only cutting tools with a rated maximum permissible speed which is at least as high as the machine's highest no-load running speed.

CAUTION

Cutting discs which are damaged or out of round (causing vibration) must not be used.

CAUTION

Do not use synthetic resin-bonded fiber-reinforced cutting discs that have exceeded their use-by date.

NOTE

Diamond cutting discs in compliance with the requirements of ANSI B7.1 are to be used with the power tool. Synthetic resin-bonded fiber-reinforced cutting discs in compliance with ANSI B7.1 (cutting-off wheels of the straight, not offset type) may also be used with this power tool for working on metals. In this case, the appropriate DCH 300 ABR disc mount (see accessories) must be used with the power tool. The mounting instructions issued by the disc manufacturer must also be observed.

The width of the slot between the segments must not exceed 10 mm ($\frac{3}{8}$ "). The thickness of the disc must not exceed 3.5 mm ($\frac{1}{8}$ "). The 60 mm dia. interchangeable flange can be used on one side for cutting discs with an inner diameter of 22.2 mm ($\frac{7}{8}$ ") or, on the other side, with cutting discs with an inner diameter of 25.4 mm (1"). Check which side of the flange fits the arbor hole in the cutting disc. The flange must center the disc.

1. Disconnect the supply cord plug from the power outlet.
2. Clean the clamping flange and the clamping nut.
3. Fit the 60 mm diameter reversible flange onto the spindle the right way round, so that it is no longer free to rotate.
4. Place the diamond cutting disc on the reversible flange.
5. Fit the 60 mm diameter clamping flange and the clamping nut.
6. **CAUTION** - Do not press the spindle lock button before the drive spindle has stopped rotating. Press the spindle lock button and hold it in this position.
7. Use the wrench to tighten the clamping nut securely and then release the spindle lock button.
8. Check to ensure that the spindle lock button has disengaged.

DANGER

Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

WARNING

Do not use the power tool if it starts with a jolt. This may be an indication that the electronic control unit is defective. Have the power tool repaired by Hilti Service immediately.

CAUTION

The power tool and the cutting operation generate noise. Wear ear protectors. Exposure to noise can cause hearing loss.

CAUTION

The cutting operation may cause dangerous splinters. Splintering material presents a risk of injury to the eyes and body. Wear eye protection and a hard hat.

CAUTION

The direction of advance is important. The power tool must always be advanced with the guide wheels ahead and in contact with the material being cut. There is otherwise a risk of kick-back.

WARNING

The electric supply voltage must comply with the information given on the type identification plate on the power tool.

CAUTION

The cutting disc and parts of the power tool may get hot through use. There is a risk of burning your hands. Wear protective gloves. Touch the power tool only at the grips provided.

CAUTION

Use clamps or a vice to hold the work piece securely.

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WARNING

Slits cut in loadbearing walls of buildings or other structures may influence the statics of the structure, especially when steel reinforcing bars or load-bearing components are cut through. Consult the structural engineer, architect, or person in charge of the building project before beginning the work.

Working with the power tool

Take care to ensure that the closed side of the guard is always positioned toward the operator's body. Adjust the position of the guard (hood) to suit each cutting application.

Switching on

1. Plug the supply cord into the power outlet.
2. Always hold the tool securely with both hands on the grips provided.
3. Unlock the on / off switch by pressing the switch-on interlock release button.
4. Press the on / off switch.
5. Reposition your thumb around the rear grip.

Switching off

Release the on / off switch.

The tool stops after the on / off switch is released. The switch-on interlock is re-activated.

DANGER

To reduce the risk of kick-back, avoid bringing the cutting tool into contact with the material in the area indicated.

DANGER

Wherever possible, bring the wheels into contact with the work piece before starting the cut. Take extra care in situations where this is not possible or where the cutting disc is inserted in an existing cut.

CUTTING

1. **When cutting mineral materials, first bring the tool's guide wheels into contact with the object to be cut.**
2. **Allow the power tool to reach full speed.**
3. **Apply pressure to the power tool so that the cutting disc is pressed into the material slowly. This ensures that particles and sparks generated by the cutting operation are caught by the hood and extracted by the dust removal system.**

NOTE Apply moderate pressure, adjusting the rate of advance to suit the material being cut.

NOTE The diamond disc may overheat and suffer damage when cutting very hard mineral materials, e.g. concrete with a high hard pebble content. A trail of sparks right round the circumference of the diamond cutting disc is a sure indication of this. Should this occur, stop cutting and cool the disc by allowing the tool to run under no load.

A drop in the rate of cutting progress can be an indication of "blunt" (polished) diamond segments. The segments can be re-sharpened by making a few cuts in an abrasive material (Hilti sharpening plate or sand-lime block).

Using a suitable vacuum cleaner for working on mineral materials

NOTE

Please read the operating instructions for the vacuum cleaner for information about disposal of the material collected.

Dust can be kept to a minimum when working by using a suitable vacuum cleaner (such as the Hilti VCD 50). Use of a vacuum cleaner also helps to cool the segments on the disc and thus reduces segment wear. In order to avoid electrostatic effects, a vacuum cleaner equipped with an antistatic hose should be used.

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