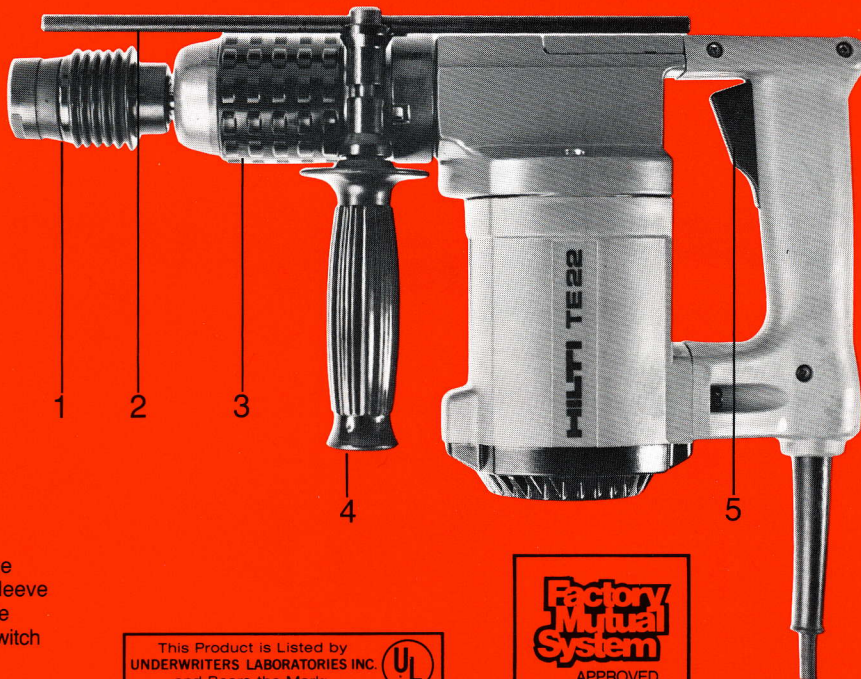


HILTI®

TE-22 Rotary Hammer Instruction Manual 3 Wire Grounded Construction



- 1 Hilti chuck
- 2 Depth gauge
- 3 Adjusting sleeve
- 4 Side Handle
- 5 Two-pole switch

This Product is Listed by
UNDERWRITERS LABORATORIES INC.
and Bears the Mark:



Technical Data

Current 5.5 Amps
Voltage 115 Volts AC
Frequency 50/60 Hz
Speed 440 RPM (full load)
650 RPM (no load)

Hammering
Speed

3150 BPM

Dimensions

Length without bit 15³/₄"
Height 8⁵/₈"
Weight 12¹/₂ lbs.
Cord length 10 ft.

Features

- Three wire grounded cord and plug
- Automatic cut-out brushes
- Side handle is locked in position by tightening hand grip
- Depth gauge readily adjustable, locks positively
- Two drilling modes, hammer drilling and rotary only
- Permanent lubrication

Range of Accessories

TE 22 Bits 1/4"-1" Diameter (up to 18" in length) (TE-C and D)

TE-D-SD Setting Tools for HDI Anchors 1/4"-1/2" anchors (3 different sizes).

Exact diameters, lengths, and catalog numbers can be found on the selector chart in your tool box or in the Hilti Drilling and Anchoring Catalog.

Note: Use of other than recommended accessories may be hazardous to the operator.

Safety Rules

1. Keep Work area clean

Cluttered areas and benches invite accidents.

2. Avoid dangerous environment

Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.

3. Keep children away

All visitors should be kept safe distance from work area.

4. Store idle tools

When not in use, tools should be stored in dry, high, or locked — up place — out of reach of children.

5. Don't force tool

It will do the job better and safer at the rate for which it was designed.

6. Use right tool

Don't force a small tool or attachment to do the job of a heavy-duty tool.

7. Wear proper apparel

No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.

8. Use safety glasses

Use safety glasses with most tools. Also face or dust mask if cutting operation is dusty.

9. Don't abuse cord

Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.

10. Secure work

Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

11. Don't overreach

Keep proper footing and balance at all times.

12. Maintain tools with care

Keep tools sharp and clean for

best and safest performance. Follow instructions for lubricating and changing accessories.

13. Disconnect tools

When not in use; before servicing; when changing accessories such as blades, bits, wheels, cutters, etc.

14. Remove adjusting keys and wrenches

Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

15. Avoid accidental starting

Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.

16. Servicing

When servicing use only identical replacement parts.

17. Outdoor Use Extension Cords

When tool is used outdoors,

use only extension cords marked "Suitable for use with outdoor appliances — store indoors when not in use".

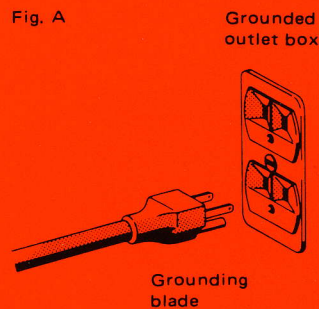
18. Wear Ear Protectors

Wear ear protectors when using for extended periods.

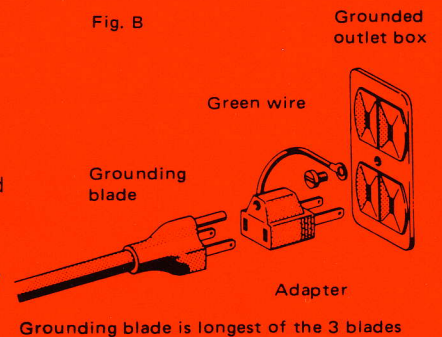
19. The use of other than Hilti accessories may be hazardous or result in damage to the tool.

Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle (figure A). The green (or green and yellow) conductor in the cord is the grounding wire. Never



connect the green (or green and yellow) wire to a live terminal. An adaptor (figure B) is available for connecting the plug to a two prong receptacle. The green-colored rigid "ear" or lug extending from the adaptor must be connected to a permanent ground (such as to a properly grounded outlet box).



Extension Cords

Use only three-wire extension cords that have three-prong grounding type plugs and three-pole receptacles that accept the tool's plug.

Use an extension cord heavy enough to carry the current

your tool will draw. An undersized cord will cause a drop in voltage, resulting in loss of power and over-heating. The following table shows the correct size to use depending on cord length. If in doubt, use the next heavier gauge.

Note: The smaller the gauge number, the heavier the cord. Repair or replace damaged cords. See your Hilti salesman for extension cords.

The following are recommended American Wire Gauges for your TE22.

Cord length	Awg.
up to 100 ft.	16
up to 150 ft.	14
up to 250 ft.	12
up to 375 ft.	10

Operation

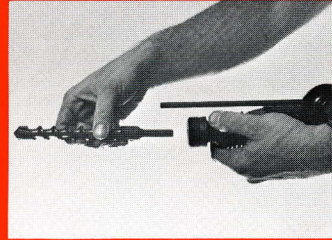
NOTE: Before connecting your TE22 to an outlet, insure that the power supply is 115 volts AC, 60 Hz.



1. Side Handle and Depth Gauge Adjustment

Loosen the side handle by turning counter-clockwise. Adjust the depth gauge to the proper length and rotate the handle to the most comfortable position. Retighten the side handle.

Note: When setting depth gauge be sure that the drill bit is pushed back to insure correct setting.

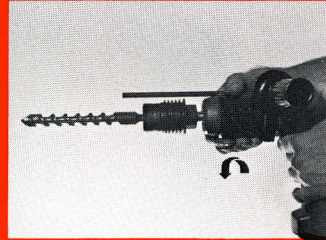


2. Lubrication of the Chuck

Always clean and lubricate the chuck end of the bit shank before inserting in the drill. To lubricate, spray lightly with Hilti spray lubricant.

3. Bit Chucking

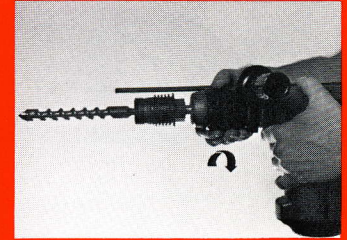
Pull the locking sleeve back and insert the bit in the chuck. Release the locking sleeve and turn the drill bit until the locking sleeve snaps back into its original position.



4. For hammer drilling:

With the drill stopped, pull back the adjusting sleeve all the way and lock by twisting a quarter turn counter clockwise. Place the drill against the work surface, apply light pressure, switch the drill on.

Note: If the machine is switched on before being placed in position, no hammering will occur.



5. For rotary drilling:

With the drill stopped, unlock the adjusting sleeve with a quarter turn clockwise. A spring will push it forward all the way. Turn the adjusting sleeve a quarter turn counter clockwise to lock in the "drilling only" position. Place the drill against the work surface and switch on.

HILTI® Fastening Systems

P.O. BOX 45400
TULSA, OK 74145
Telephone (918) 627-9711

For range of drill bits, anchors and anchor setting tools, see selector chart in your tool box.

Caution

The metal parts of the drill may be made live if the tool drills into wiring. Only the insulated handles of the TE22 should be contacted when drilling into a wall or other concealed space.

Use of TE-D-SD Setting Tool with HDI Anchors

1. Drill the hole for the HDI anchor and install the anchor into place.
2. Insert the TE-D-SD Setting Tool into the drill chuck (use same procedure as for a bit).
3. Using both hammering and rotation, place the end of the TE-D-SD Setting Tool into the anchor and "hammer" the plug into the anchor until the setting tool bottoms out on the top of the anchor. The HDI is now "set".

Maintenance of bits

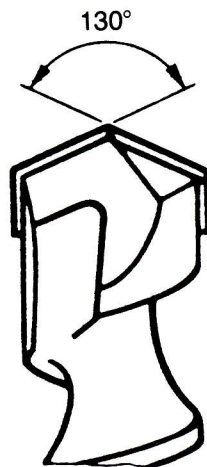
Because of the operating principle of the TE22, excess operator pressure is not needed. To ensure long bit life, never force the bit or let it overheat.

Sharp bits perform better than dull ones. Resharpen bits as frequently as needed. Resharpen only in accordance with instructions.

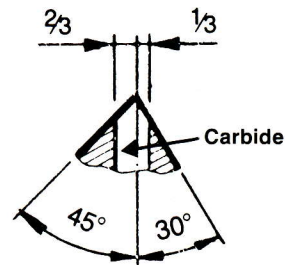
Regrinding carbide bits

Resharpener can be accomplished with a normal grinding wheel to the angles indicated in the accompanying diagram. A good grade of silicon carbide grinding wheel hardness H to J, grit size 80 should be used. It is best to use a commercially available adjustable angle drill grinding bit holder. Short back and forth movements of the tool will produce a good ground finish with little heating effect. Carbide cutting edges must never be cooled in water.

Cutting angles for TE-C and D drill bits



Cross Section View of bit



Warranty

Your new Hilti TE22 drill is warranted for 90 days from the date of shipment to the original purchaser. The warranty is against defects in material or workmanship, provided that the system is used in accordance with Hilti instructions; repairs have not been made by persons other than authorized Hilti service personnel; damage is not due to normal wear and tear; the tool has not been abused or misused; and the defective tool is returned to the local Hilti representative for forwarding to the Hilti Repair Center. Parts which are found to be defective in material or workmanship will be replaced or repaired without cost other than the cost of shipping and insurance. Under no circumstances will Hilti be obligated for consequential or other damages, losses, or expenses in connection with or by reason of the use or inability to use the tool for any purpose.

This warranty, which is given expressly and in lieu of all other warranties, express or implied, merchantability, and of fitness for particular purpose, constitutes the only warranty or guarantee made by Hilti.

Servicing

All repairs and adjustments to the Hilti TE22 including inspection and replacement of the brushes, switch, and power cord, should be performed at a Hilti Repair Center. When servicing use only identical replacement parts, as shown on the parts list.

Preventive maintenance

Check for worn or frayed cord. Keep the air passages for the motor clear of dirt and dust. The TE22 is permanently lubricated.