

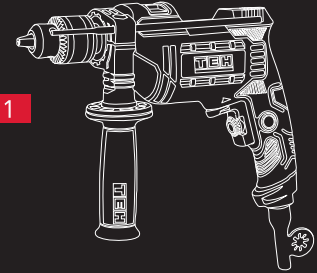


www.tehtools.com

Impact Drill

TD1307A TD1308A TD1311

To Be Your Exclusive Helper

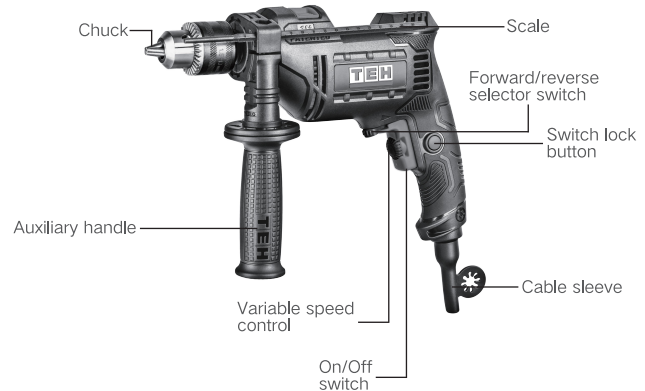


TEH

TECHNICAL SPECIFICATION

Model	TD1307A	TD1308A	TD1311	
Rated voltage	220V 50Hz	220V 50Hz	220V 50Hz	
Rated input power	710W	810W	1050W	
No-load speed	0-2800r/min	0-2800r/min	0-2800r/min	
Blows per minute	46400BPM	46400BPM	46400BPM	
Chuck capacity	1,5-13mm	1,5-13mm	1,5-13mm	
Drill Capacity	Metal	13mm	13mm	13mm
	Masonry	13mm	13mm	13mm
	Wood	35mm	35mm	40mm
Weight	1,68kg	1,78kg	2,06kg	
Protection class	II/II	II/II	II/II	

COMPONENTS AND ACCESSORIES



Accessories included:

- 1 auxiliary handle
- 1 scale
- 1 chuck key
- 1 instruction manual
- 2 spare carbon brushes

SAFETY INSTRUCTIONS

WARNING

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or other serious injury. The term “power tools” in all of the warnings listed below refers to mains-operated (corded) power tool or battery operated (cordless) power tool.

WORK AREA

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tools. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increases the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce the risk of personal injuries.
- Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in the power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

POWER TOOL USE AND CARE

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, breakage or parts and any other condition that may affect the power tools operations. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

SERVICE






- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- When servicing a tool, use only identical replacement parts. This will ensure that the safety of the power tool is maintained.

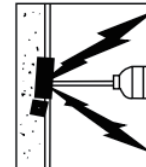
DOUBLE INSULATION

The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

IMPORTANT NOTE

SYMBOLS

-  Read the manual
-  Warning
-  Wearing protection
-  Double insulation
-  WEEE marking



WARNING

Before using your drill be sure to read the instruction manual carefully.

OPERATION INSTRUCTIONS

WARNING ⚠

Before setting up, repair or maintenance of the appliance you must always turn off the operating switch and pull out the mains plug!

BEFORE INITIAL OPERATION

Check if the rated frequency of the mains supply corresponds to the details of the type plate. Before using the tool, read the instruction book carefully.

WOOD DRILLING

- 1) For maximum performance, use high speed steel bits for wood drilling.
- 2) Move drilling mode selector to drill mode.
- 3) Secure the workpiece to prevent it from turning when drilling.
- 4) Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material.
- 5) When drilling through the holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.
- 6) Do not tack the trigger in the "on" position when the drill may need to be stopped suddenly.

METAL DRILLING

- 1) For maximum performance, use high speed steel bits for metal or steel drilling.
- 1) Move drilling mode selector to drilling mode.
- 2) Use a center punch to mark the hole location on the workpiece.
- 3) Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- 4) Maintain speed and pressure which allows cutting without overheating the bit. Applying too much pressure will: Overheat the drill, Wear the bearings, Bend or burn bits.
- 5) Produce off-center or irregular shaped holes.
- 6) When drilling large holes in metal, it is recommended to drill with a small bit at first, then finish with a larger bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

MASONRY DRILLING

- 1) For maximum performance use tungsten carbide-tipped masonry act bit when drilling holes in brick, tile, concrete, etc.
- 2) Move drilling mode selector to hammer mode.
- 3) Apply light pressure and medium speed for best results in brick.
- 4) Apply additional pressure and high speed for hard materials such as concrete.
- 5) When drilling in tile, practice on a scrap piece to determine the best speed and pressure.

CHUCK REMOVAL

The chuck of reversible drills are always fixed by a screw with left-hand thread. The screw, which is located in the center of the chuck, must be removed before the chuck can be removed.

- 1) Tighten the chuck around the shorter end of a hex key of 1/4" in the clockwise direction. This will loosen the screw inside the chuck.
- 2) Open chuck jaws fully.
- 3) Insert a screwdriver into front of chuck between jaws to engage screw head. Remove screw by turning clockwise.
- 4) Place a hex key in chuck and tighten. Using a wooden mallet or similar object, strike key sharply in the counterclockwise direction. This will loosen the chuck so that it can be unscrewed by hand.

CHUCK INSTALLATION

- 1) Screw the chuck by hand as far as it will go and insert screw.
- 2) Tighten the chuck around the shorter end of a 1/4" or larger hex key strike the longer end in the clockwise direction with a wooden mallet.
- 3) Remove the hex key and put the screw in the center of chuck. Then tighten the screw firmly.

SWITCHING ON AND OFF

- 1) Connect the plug to the power point.
- 2) Start the tool by squeezing the on/off trigger switch.
- 3) Release the trigger to stop the tool.
- 4) If you press the lock-on button while the trigger switch is depressed, the switch is kept in the operating position.
- 5) To release the lock-on button, press and release the trigger switch.

FORWARD/REVERSE LEVER SWITCH LOCK

- 1) The forward/reverse lever switch determines the direction of rotation of the tool and off button.
- 2) To select forward rotation, release the trigger switch and push the forward/reverse lever switch to the left side of the tool.

- 1) To select reverse, push the forward/reverse lever switch to the right side of the tool.
- 4) When changing the position of the lever switch be sure the trigger switch is released and the motor is stationary.

VARIABLE SPEED DIAL

- 1) The variable speed dial provides a safety feature to the user when driving screws.
- 2) You can use this dial to vary the speed.
- 3) Turn the dial clockwise direction to increase the speed and counterclockwise direction to decrease the speed.

DRILL/HAMMER MODE SELECTOR

- 1) Set the drilling/hammer selector to the  position to select the hammer mode.
- 2) Set the drilling/hammer selector to the  position to select the drill mode.

SIDE HANDLE AND DEPTH GAUGE

- 1) Rotate the side handle counter-clockwise to loosen the collar and slip it over the chuck onto the drill.
- 2) Insert the depth gauge in the hole of the side handle clamp.
- 3) The side handle can be rotated through 360° to find the position that offers extra most comfort and the easiest operation.
- 4) Tighten the side handle by rotating it clockwise.
- 5) The depth gauge helps achieve an accurate depth when drilling holes.
- 6) To change the position of the depth gauge, rotate the side handle counter clockwise until the depth gauge is hosing enough to slide through the hole. Set the depth, checking the measurement with a steel rule for more accuracy where required and then rotate the side handle clockwise to tighten both the depth stop and the side handle in the required position.

INSERTING AND REMOVING BITS

WARNING ⚠

Always ensure that the drill is switched off and the plug is removed from the power point before making any adjustments.

The drill has a key chuck, which means that a chuck key is needed to secure the bit in the drill.

- 1) Open the chuck by holding the rear section of the chuck firm and rotating the front section in an counter-clockwise direction, sufficient to allow the drill bit to be inserted into the jaws of the chuck.
- 2) Ensure the drill bit is fully inserted in the chuck.
- 3) Holding the rear section of the chuck firmly, rotate the front section of the chuck clockwise until the jaws tighten on the drill bit. The front section of the chuck needs to be a firmly to ensure the bit is held securely.
- 4) To move the drill bit, hold the rear section of the chuck firmly and rotate sharply the front section of the chuck in a counter-clockwise direction, sufficient to allow the drill bit to be removed.

MAINTENANCE AND TROUBLESHOOTING

WARNING ⚠

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance. Always store your power tool in a dry place.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or

similarly qualified persons in order to avoid a hazard.

If a fault can not be rectified, return the drill to an authorized dealer for repair.

CLEANING

unit by rubbing it with a clean cloth or blow it clean using low-pressure compressed air.

Keep the safety devices, ventilation slots and Motor housing as free of dirt and dust as possible. We recommend that you always clean the unit immediately after using it.

Clean the unit regularly by rubbing it with a damp cloth and a little soft soap. Do not use cleaners or solvents; these will attack the plastic parts in the unit. You must also ensure that water cannot get into the inside of the unit.

CARBON BRUSHES

If excessive sparking occurs you must have the carbon brushes checked by a qualified electrician. Attention! Only a qualified electrician is allowed to change the brushes.

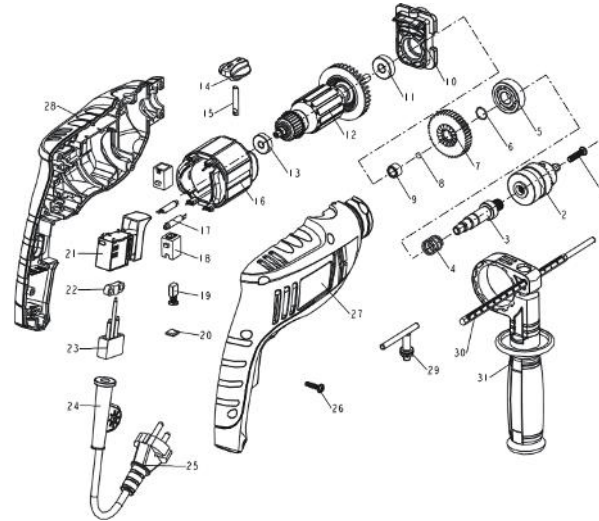
TROUBLE SHOOTING

- 1) The operating switch is switched on, but the motor is not working.
 - Wires in the mains plug or in the socket are loose. Have socket and plug checked or repaired.
 - The switch is faulty. Have the switch replaced.
- 2) The operating switch is switched on, but unusual noises can be heard, the motor is not working or only very slowly.
 - Switch contact has failed. Have the switch replaced.
 - Component jammed. Have the electric tool checked or repaired.
 - Too much thrust, as a result the motor is dragging. Use less thrust during the task.
- 3) Motor gets hot.
 - Foreign substances have got inside the motor. Have the foreign substances removed.
 - Lack of or contaminated lubrication grease. Have lubricating grease applied or replaced.

- Pressure too high. Use less pressure during the task
- 4) Frequent or strong sparks on the commutator.
- Short circuit on the armature. Have the armature replaced.
- Carbon brushes worn out or jammed. Have the carbon brushes checked.
- Rough running of the commutator. Have the surface of the commutator cleaned or ground.

WARNING ⚠

For your own safety, never remove parts or accessories of the electric tool during operation. In case of fault or damage have the electric tool repaired only by a specialist workshop or by the manufacturer

PRODUCT EXPLODED VIEW

EXPLODED VIEW PART LIST

No.	Description	Qty	No.	Description	Qty
1	Anti-clockwise Screw M5X25	1	17	Inductor	2
2	ChuckΦ13	1	18	Brush box	2
3	Output Spindle	1	19	Carbon Brush	2
4	Spring	1	20	Brush cover	2
5	Bearing 6201	1	21	Switch	1
6	Circlip for shaft 12	1	22	Cable Clip	1
7	Gear	1	23	Capacitor	1
8	Ballφ5	1	24	Cable Armor	1
9	Bearing	1	25	Cable	1
10	Supporter	1	26	Tapping Screw ST4X16	11
11	Bearing 608	1	27	Left Housing	1
12	Rotor	1	28	Right Housing	1
13	Bearing 626	1	29	Chuck KeyΦ13	1
14	Knob	1	30	Scale	1
15	Impact rod	1	31	Side Handle	1
16	Stator	1			

WARRANTY CARD

Dear customers, the warranty service for purchasing TEH products is as follows:

Under normal use, the wear of the rotor steering gear is less than 0.2 mm within three months from the date of purchase. It is guaranteed that the damage is caused by the quality of the tool.

The following conditions occur during the warranty period, not covered by the warranty:

- Any valid legal document (single ticket) certifying the date of purchase
- Any damage caused by natural wear and overload
- Any damage caused by the use of low-priced inferior accessories
- Any damage caused by improper carrying, transportation or storage
- Any product that has been opened, repaired, replaced, or modified by itself
- Any damage caused by misuse, beyond the scope of use of the tool, and failure to use and maintain in accordance with the instructions.

ladies/gentlemen : _____ employer : _____

contact number : _____ fax number : _____

contact address : _____

warranty record : _____

post code : _____

IMPORTANT NOTE

- The invoice and warranty card must be presented at the time of warranty.
- The fuselage number on the invoice is the same as the fuselage number on the warranty card.
- Once this warranty card is issued, if it is lost, it will not be reissued. Please keep it properly.

Note: The company reserves the right to amend the above provisions and has the final interpretation right in the case that the warranty service does not violate national laws.