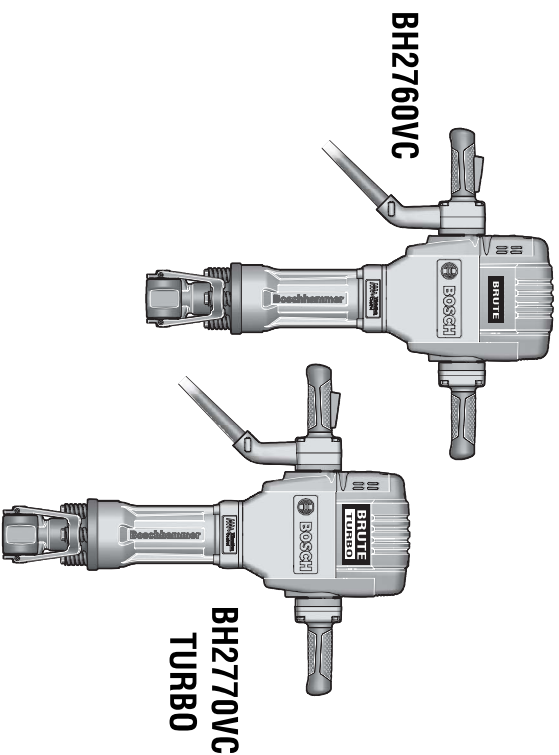


**IMPORTANT:** **IMPORTANT :** **IMPORTANTE:**  
**Read Before Using** **Lire avant usage** **Leer antes de usar**



**Operating/Safety Instructions**  
**Consignes de fonctionnement/sécurité**  
**Instrucciones de funcionamiento y seguridad**



**BOSCH**

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For English Version  
 See page 2

Version française  
 Voir page 12

Versión en español  
 Ver la página 22

## Safety Symbols

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
<b>▲ DANGER</b>	DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
<b>▲ WARNING</b>	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
<b>▲ CAUTION</b>	CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

## General Power Tool Safety Warnings

**▲WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

### SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### Work area safety

Keep work area clean and well lit. Cluttered or 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 tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase 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.

If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of an GFCI 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 personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

**Prevent unintentional starting.** Ensure the switch is in the off-position before connecting to power source and/ or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing 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 left attached 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 jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry 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 dust collection 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 and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

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

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

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

**Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those 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.

### Demolition Hammer Safety Rules

**Wear ear protectors.** Exposure to noise can cause hearing loss.

**Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.

**Hold power tools by insulated gripping surfaces, when performing an operation where the cutting tool 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.

**Use a metal detector to determine if there are gas or water pipes hidden in the work area or call the local utility company for assistance before beginning the operation.** Striking or cutting into a gas line will result in explosion. Water entering an electrical device may cause electrocution.

**Always wear safety goggles or eye protection when using this tool. Use a dust**

**mask or respirator for applications which generate dust.** Safety goggles or eye protection will help deflect fragments of the material that may be thrown toward your face and eyes. Dust generated or gases released from the material you are cutting (i.e. asbestos insulated pipes, radon) may cause respiratory difficulties.

**Use thick cushioned gloves and limit the exposure time by taking frequent rest periods.** Vibration caused by hammer action may be harmful to your hands and arms.

**Do not use dull or damaged bits and accessories.** Dull or damaged bits have a greater tendency to bind in the workpiece.

**Always use both handles for maximum control over this hammer. Never attempt to operate this tool with one hand.** This tool develops intense percussive forces during

operation and you may lose control if attempting one hand operation.

**Position yourself to avoid being caught between the tool or side handle and walls or posts.** Should the bit become bound or jammed in the work, the reaction of the tool could crush your hand or leg.

**Do not strike the bit with a handheld hammer or sledge hammer when attempting to dislodge a bound or jammed bit.** Fragments of metal from the bit could dislodge and strike you or bystanders.

**Never place the tool down until the motor has come to a complete stop.**

**When removing the bit from the tool avoid contact with skin and use proper protective gloves when grasping the bit or accessory.** Accessories may be hot after prolonged use.

### Additional Safety Warnings

GFCl and personal protection devices like electrician's rubber gloves and footwear will further enhance your personal safety.

**Do not use AC only rated tools with a DC power supply.** While the tool may appear to work, the electrical components of the AC rated tool are likely to fail and create a hazard to the operator.

**Keep handles dry, clean and free from oil and grease.** Slippery hands cannot safely control the power tool.

**Develop a periodic maintenance schedule for your tool. When cleaning a tool be careful not to disassemble any portion of the tool since internal wires may be misplaced or pinched or safety guard return springs may be improperly mounted.** Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

**Risk of injury to user.** The power cord must only be serviced by a Bosch Factory Service Center or Authorized Bosch Service Station.

**WARNING** Some dust created by grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.









## Symbols

**IMPORTANT:** Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Designation / Explanation
V	Volts (voltage)
A	Amperes (current)
Hz	Hertz (frequency, cycles per second)
W	Watt (power)
kg	Kilograms (weight)
min	Minutes (time)
s	Seconds (time)
∅	Diameter (size of drill bits, grinding wheels, etc.)
n <sub>0</sub>	No load speed (rotational speed at no load)
n	Rated speed (maximum attainable speed)
.../min	Revolutions or reciprocation per minute (revolutions, strokes, surface speed, orbits etc. per minute)
0	Off position (zero speed, zero torque...)
1, 2, 3, ... I, II, III,	Selector settings (speed, torque or position settings. Higher number means greater speed)
↘	Infinitely variable selector with off (speed is increasing from 0 setting)
→	Arrow (action in the direction of arrow)
~	Alternating current (type or a characteristic of current)
—	Direct current (type or a characteristic of current)
~	Alternating or direct current (type or a characteristic of current)
□	Class II construction (designates double insulated construction tools)
⊕	Earthing terminal (grounding terminal)

## Symbols (continued)

**IMPORTANT:** Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Designation / Explanation
	Alerts user to read manual
	Alerts user to wear eye protection
	This symbol designates that this tool is listed by Underwriters Laboratories.
	This symbol designates that this tool is listed by Underwriters Laboratories, to United States and Canadian Standards.
	This symbol designates that this tool is listed by the Canadian Standards Association.
	This symbol designates that this tool is listed by the Canadian Standards Association, to United States and Canadian Standards.
 Intertek	This symbol designates that this tool is listed by the Intertek Testing Services, to United States and Canadian Standards.
	This symbol designates that this tool complies to NOM Mexican Standards.

## Functional Description and Specifications

**WARNING** Disconnect the plug from the power source before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.

### Demolition Hammer

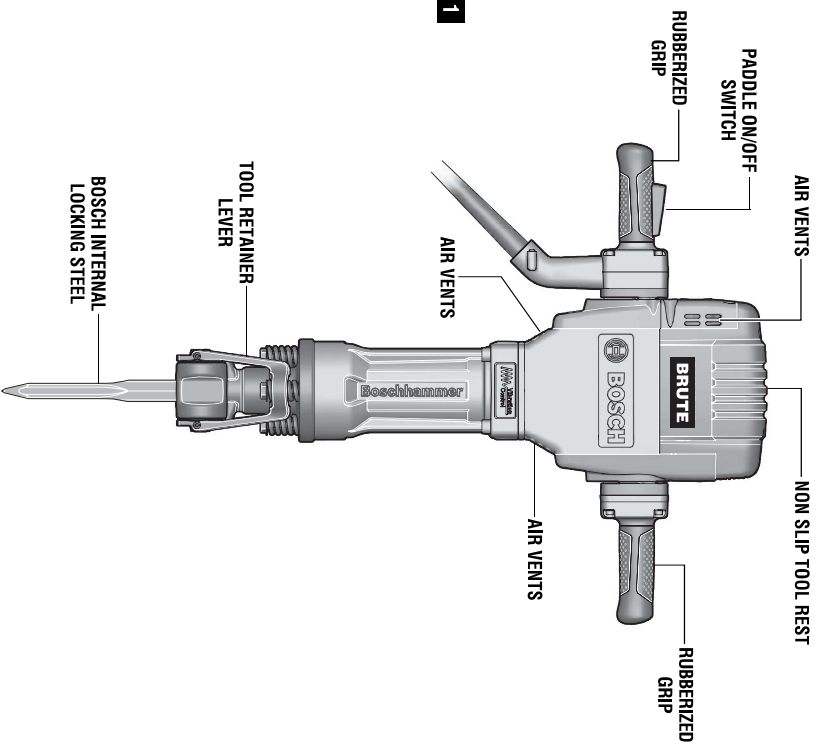


FIG. 1

Model number	BH2760VC & BH2770VC Turbo
Voltage rating	120 V ~ 50 - 60Hz
Amperage rating	15.0 A
No load speed	n <sub>0</sub> 1000/min
Shank style	Standard 1-1/8" hex, air tool steel or Bosch internal locking steel.

-7-

## Assembly

### INSTALLING ACCESSORIES

Clean the insert shank end of the accessory to remove any debris, then lightly grease with a light oil or lubricant. If work is to be done where the accessories are changed frequently and laid in dirt, sand or concrete dust, it is best not to grease the shank after wiping clean.

To lock **standard air steel** in place, Raise the tool retainer lever all the way up and around to the opposite side. To lock, insert air steel up to the striker and raise the retainer lever around the shank below the accessory collar as shown in figure 2.

To lock **Bosch internal locking steel** in place, raise tool retainer until you can slide the internal locking steel up to the striker. **NOTE:** the notch on internal locking steel should always face toward the retainer lever. To lock, lower

the tool retainer lever all the way down as shown in figure 3.

**NOTE:** The high efficiency available from the rotary hammers can only be obtained if sharp and undamaged accessories are used. The "cost" to maintain sharp and undamaged accessories is more than offset by the "time saved" in operating the tool with sharp accessories.

### REMOVING ACCESSORIES

**WARNING** Accessories may be hot after use. Avoid contact with skin and use proper protective gloves or cloth to remove.

To remove an accessory, reverse the previous directions. All accessories should be wiped clean after removing.

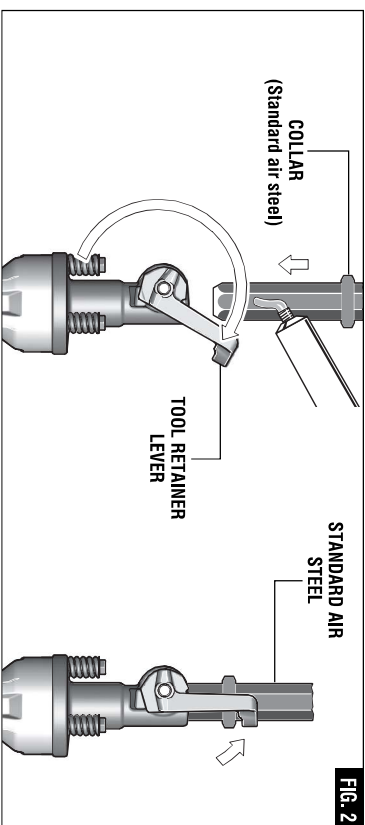


FIG. 2

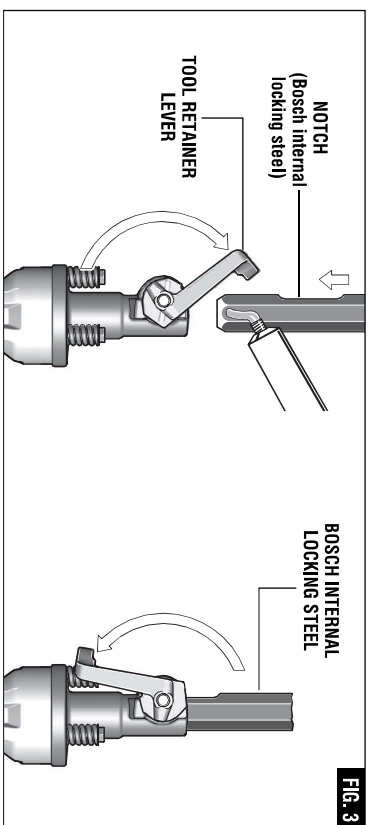


FIG. 3

-8-

## Operating Instructions

### PADDLE "ON/OFF" SWITCH

The paddle switch enables the operator to control the switch functions of "ON/OFF", TO SWITCH THE TOOL "ON": Squeeze and hold the paddle lever. TO SWITCH THE

TOOL "OFF ": Release pressure on the paddle lever. The switch is spring loaded and will return automatically.

### "TOOL TIPS"

The tool may be switched on with either hand. Balance the tool with both hands and rest the tool on the hip.

For the best penetration rates in concrete, run the tool with a steady pressure, but do not use excessive force as this will decrease the efficiency of the tool. Start chipping with the tool in a straight in position until the surface to be broken is chipped. Draw the hammer back at an angle of 60° with the surface to be broken. Apply only enough force to keep the tool weight on the accessory

All grease packed hammers require a short period of time to warm up. Depending on the room temperature, this time may vary from approximately 15 seconds (90°F) to 2 minutes

(32°F). A new hammer requires a break-in period before full performance is realized. This period may require up to 5 hours of operation.

Avoid no load running of the tool. No load or "empty blows" is the most damaging factor to any impact hammer.

An electric hammer is likely to be the most expensive portable tool at the construction job. The long wear and efficient operation of the BOSCH hammers will more than justify the cost for tools of this type. As earlier pointed out, sharp accessories as well as clean air vents are necessary for efficient operation. Establish and follow a set maintenance program.

## Dust Extraction

For selection of dust collection systems and operating instructions, see the Operating / Safety Instructions for Dust Extraction

Attachments for Hammers and Hammer Drills included with your tool or with the dust extraction attachment.

## Maintenance

### Service

**⚠WARNING** Preventive maintenance by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard. We recommend that all tool service be performed by a Bosch Factory Service Center or Authorized Bosch Service Station.

### TOOL LUBRICATION

Your Bosch tool has been properly lubricated and is ready to use. It is recommended that tools with gears be regreased with a special gear lubricant at every brush change.

### CARBON BRUSHES

The brushes and commutator in your tool have been engineered for many hours of dependable service.

Your tool is equipped with a Pop-out brush system. The tool will shut off when brush replacement, lubrication and preventive maintenance are needed.

Only genuine Bosch replacement brushes specially designed for your tool should be used.

### BEARINGS

Every second brush change, the bearings should be replaced at Bosch Factory Service Center or Authorized Bosch Service Station. Bearings which become noisy (due to heavy load or very abrasive material cutting) should be replaced at once to avoid overheating or motor failure.

### Cleaning

**⚠WARNING** To avoid accidents the tool from the power supply before cleaning or performing any maintenance. The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air.

Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through openings.

**⚠CAUTION** Certain cleaning agents and solvents damage plastic parts. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

## Extension Cords

**⚠WARNING** If an extension cord is necessary, a cord with adequate size conductors that is capable of carrying the current necessary for your tool must be used. This will prevent excessive voltage drop, loss of power or overheating. Grounded tools must use 3-wire extension cords that have 3-prong plugs and receptacles.

**NOTE:** The smaller the gauge number, the higher the cord capacity.

### RECOMMENDED SIZES OF EXTENSION CORDS 120 VOLT ALTERNATING CURRENT TOOLS

Tools Ampere Rating	Cord Size in A.W.G.				Wire Sizes in mm <sup>2</sup>			
	Cord Length in Feet				Cord Length in Meters			
	25	50	100	150	15	30	60	120
3-6	18	16	16	14	0.75	0.75	1.5	2.5
6-8	18	16	14	12	0.75	1.0	2.5	4.0
8-10	18	16	14	12	0.75	1.0	2.5	4.0
10-12	16	16	14	12	1.0	2.5	4.0	-
12-16	14	12	-	-	-	-	-	-