# Concrete Vibrator 580/800 W

AR-HE-BR80020/AR-HE-BR80015/AR-HE-BR58015

User's Manual

Please follow all security measures in this user's manual to ensure a secure use.

# Contents

**Please read and save these instructions. Read through this user's manual carefully before using product. Protect yourself and others by observing all safety information, warnings and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.**

# 1. Safety instructions

- Before commencing any work shift, the operator must verify the effectiveness of the controls and safety equipment, as well as the proper installation of the safety devices. Concrete vibrators may only be operated with all protective devices. The effectiveness of the controls must not be unauthorized influenced or removed.
  Before putting the devices into operation, it is essential to read the corresponding instructions!
- Concrete vibrators may only be operated as intended, taking into account the operating and maintenance instructions, the generally accepted safety rules and the country-specific regulations. The intended use is exclusively the compacting of concrete. Any other use of the concrete vibrator is considered to be improper and is a matter to be responsible exclusively by the operator.

## 1.1 Condition for operation

- Proper and safe operation of the device requires the following:
  - Proper transport, storage, installation.
  - Careful operation.
  - Careful care and maintenance.
- The device may only be operated for compacting fresh concrete. The vibrating body must be immersed in the fresh concrete.

## 1.2 Operational safety

- Observe the safety instructions and warnings on the device and in the operating instructions.
- Commission the device according to the operating instructions.
- Familiarize yourself with the work environment before starting work. These include the following points:
  - Obstacles in the area of work and traffic.
  - Load capacity of the soil.
  - Necessary securing of the construction site, in particular for public transport.
  - Necessary protection of walls and ceilings.
  - Possibilities of assistance in accidents.
- Keep the workplace clean and well lit.
- Do not work with the power tool in an explosive environment, near flammable liquids, gases or dust. Power tools generate sparks that can ignite fumes and dust.
- Keep people and children away from the workplace while working with the power tool. Distraction could make you lose control.
- Do not expose power tools to rain or damp environments. Penetrating water increases the risk of electric shock.
- Never leave a running device without supervision!
- Operate the device only as intended and in perfect technical condition.
- Never put a device requiring maintenance or repair into operation.
- When using an extension cord, it must be undamaged and checked. You must immediately replace extension cables with damages (e.g. cracks in the sheath) or loose connectors and

couplings.
- Cable drums and multiple sockets must meet the same requirements as extension cords.
- Protect extension cords, multiple sockets, cable drums and couplers from rain, snow or other wetness.
- Before operation, unwind the cable drum completely. Risk of fire due to unrolled cable drum.
- Do not use the connection cable to pull or lift the device. Do not pull the plug of the connection cable by the cable from the socket.
- Protect the connection cable from heat, oil and sharp edges.
- You must have the connection cable immediately replaced in case of damage or a loose plug.
- Protect protective hose. Do not pull the protective hose over sharp edges. If the vibrating body has caught in the reinforcement, do not pull the protective hose forcibly or jerkily. Loosen the clamped vibrating body by carefully rocking it back and forth.
- Always ensure a secure footing when working with the unit. This is especially when working on scaffolding, ladders, uneven or slippery ground, etc.
- The vibrating body must not come into contact with body parts or be introduced into body parts.
- Do not touch the hot vibrating body during operation or shortly after. The vibrating body can become very hot and can cause burns.
- Also avoid body contact with earthed parts.
- Keep hands, feet, and loose clothing away from moving or rotating equipment. Serious risk of injury from pulling or crushing.
- Never use the protective hose, connecting cables or other components of the device as a climbing aid or as a safety device.
- Only operate the device with safety and danger awareness and with all protective devices. Do not change or bypass safety devices.
- Before starting work, check the effectiveness of controls and safety equipment.
- Be careful when lifting and transporting the concrete vibrator. Do not lean forward when lifting the unit, but bend your knees.

### 1.3 Protective equipment

- The work clothes should be appropriate, i.e. close but not hindering. Do not wear open long hair, loose clothing or jewelry, including rings, on construction sites. There is a risk of injury, for example by snagging or pulling on device parts that move.
- Wear only flame-resistant work clothing.
- Use personal protective equipment to prevent injury and damage to health:
  - Safety shoes.
  - Work gloves made of solid material.
  - Work suit made of solid material.
  - safety helmet.
  - Ear protection.
- Work with ear protection particularly attentive and prudent, since you sense noises for example cries or beeps only to a limited degree.

### 1.4 Recommendations for work

- Please follow these recommendations:
  - Only work in good physical condition.
  - Work in a concentrated manner, especially at the end of working hours.
  - Do not work with the device when you are tired.
  - Carry out all work in a calm, cautious and careful manner.
  - Never work under the influence of alcohol, drugs or medications. Your vision,

responsiveness, and judgment may be affected.
- Work so that no third parties are harmed.
- Make sure that there are no persons or animals in the danger zone.

### 1.5 Electrical safety

- Power tool plugs must match the socket. Never modify the socket. Do not use adapter plugs with earthed (grounded) power tools. Unmodified plugs with appropriate sockets 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 in rainy or wet conditions. Penetration of water into a power tool will increase the risk of electric shock.
- Be careful with the power cord. Never use the feeding cable for carrying, pulling or unplugging the power tool. Keep power cord away from heat, oil, sharp edges or moving parts. Damaged or entangled feeding cable increase the risk of electric shock.
- When operating power tools outdoors use a suitable extension cord. Use of a suitable extension cord reduces the risk of electric shock.
- If operating a power tool in damp conditions is unavoidable, use a residual current device (RCD). Use of a RCD reduces the risk of electric shock.

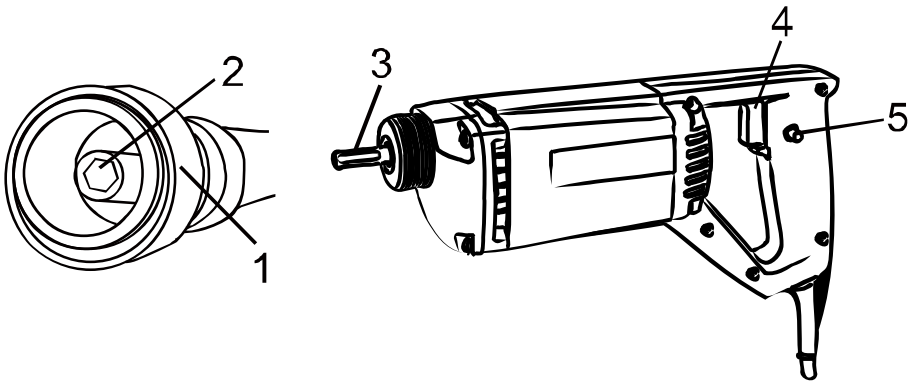
### 1.6 Personal safety

- Avoid accidental starting. Ensure the switch is in the off position before connecting to power source. Carrying power tools with your finger on the switch may result in an accident.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left in a rotating part of the power tool may result in personal injury.
- Do not overreach. Always keep proper footing and balance. This enables to control the power tool in unexpected situations.
- In the presence of devices for dust extraction and collection facilities ensure these are properly connected and used. Use of dust collection can reduce dust exposures.

### 1.7 Power tool use and care

- Do not overload the power tool. Use the power tool for its intended purpose. The correct power tool will do the job better and safer at the rate it was designed for.
- Do not use the power tool if the switch does not work properly. 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. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Keep power tools out of the reach of children and do not allow unauthorized people to operate the power tool. Power tools are dangerous in the hands of unauthorized people.
- Ensure properly maintenance of power tools. Check the tool for misalignment or binding of moving parts, breaking of parts and any other conditions that may affect the operation. If the power tool is damaged it should be 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 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.

# 2. Operation




1. Locking nut
2. Flexible shaft
3. Joint shaft
4. Trigger switch
5. Switch button

### 2.1 Steps

1. Insert the joint shaft (3) into the hole of the flexible shaft (2), turn the locking nut (1) counterclockwise to fix the vibrator.
2. Press the trigger switch (4) to start the motor. For continuous operation press the switch button (5) while the trigger switch (4) is pressed. In order to switch off the motor during the continuous operation press the trigger switch (4) again.
3. If the vibrator does not start vibration after the start of the motor, it should be knocked. Then the vibrator can be used.
4. The motor should be mounted on a scaffold or placed on a hard surface during operation. Never place it on the concrete which has not yet set to us. A wooden plate with dimensions more than 11.81 x 11.81 in (30 x 30 cm) can be placed on the unconsolidated concrete for the need of construction site. Then the motor is put on the wooden plate and fixed in order to avoid the damage of the motor when it is stuck in the unconsolidated concrete.

**ATTENTION: The locking nut is hot when running, do not touch!**

### 2.2 Applications

- The distance between two compaction points and the duration of compaction work depends on the thickness of the concrete layer and the composition of the concrete.
  The following points serve as an indication.

### 2.3 Flooring

1. Slowly insert the vibrating hose into the concrete. (Compression time about 3-4 seconds).
2. Slowly pull the vibrating hose out of the concrete and repeat the process every 19.7 in (50 cm).

### 2.4 Walls and columns

1. Fill with concrete up to the height of about 39.4 in (100 cm).
2. Insert the internal vibrator into the formwork.
3. Slowly pull the vibrating hose out of the concrete and change it to the next position.
4. Now the next concrete filling of about 39.4 in (100 cm) height can be done.

# 3. Technical specifications

| **Model** | **AR-HE-BR58015** | **AR-HE-BR80015** | **AR-HE-BR80020** |
|---|---|---|---|
| **Machine** | | | |
| Input Power | 580 W | 800 W | 800 W |
| Rated input voltage | 230 V | 230 V | 230 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Material | Plastic | Plastic | Plastic |
| Rotation speed | 4000 rpm | 5600 rpm | 5600 rpm |
| **Shaft** | | | |
| Ø vibrating head | 1.38 in (35 mm) | 1.38 in (35 mm) | 1.38 in (35 mm) |
| Ø rubber hose | 1.18 in (30 mm) | 1.18 in (30 mm) | 1.18 in (30 mm) |
| Ø flexible shaft | 0.394 in (10 mm) | 0.394 in (10 mm) | 0.394 in (10 mm) |
| Length | 1.5 m | 1.5 m | 2 m |

# 4. Cleaning and maintenance

- When it is operated, the motor should be cleaned outside if necessary. Especially the inlet and outlet of the motor must always be kept clear.
- When it is operated, check if all the connecting screws are tighten. The place where the vibrator connects to the motor should be cleaned up, and fed some drops of oil, and then the connector of the vibrator is covered with a protective cover.
- During operation, check the wear of carbon brush. If it is necessary it should be replaced to avoid the damage of the motor. The carbon brush can be replaced only by technically qualified personnel.
- The brushes should be checked periodically and worn-out brushes should be replaced in time, after replacing inspect whether the new brushes can move freely in the brush holder - keep running the motor for 15 minutes to match the contact of brushes and commutator.
- Keep the ventilation slots clean, remove the accumulated dust and oil dirt periodically.
- If something happens during normal operation the power supply should be switched off immediately and the tool should be checked and repaired.
- Regularly inspect all mounting screws and ensure that they are properly tightened. If any of the screws are loose tighten them immediately, failure to do so could result in personal injury.
- Do not expose the tool in rainy, damp or wet conditions, keep work area well lit, do not use power tools where there is risk of fire or explosion.
- Ensure your power tool is serviced by qualified personnel using only identical replacement parts. This will ensure the safety operation of the power tool.

# 5. Troubleshooting

| Item trouble | Cause | Method |
|---|---|---|
| **Motor doesn´t work.** | - The power socket is damaged or loose.<br>- The plug is damaged.<br>- The cable is worn or damaged.<br>- The carbon brush is worn.<br>- The switch is damaged or loose.<br>- The inner wire is loose.<br>- The stator or rotor is damaged. | - Repair or replace socket.<br>- Replace the plug.<br>- Replace cable.<br>- Repair the carbon brush.<br>- Repair or replace the switch.<br>- Connect the inner wire.<br>- Replace the stator or rotor. |
| **Big spark on the carbon brush.** | - The commutator is damaged.<br>- The rotor or stator winding is short circuited or rotor winding is open circuited.<br>- Carbon brush is worn. | - Replace the rotor.<br>- Replace the rotor or stator.<br>- Replace the new carbon brush. |
| **The vibrator does not vibrate or vibration is weak.** | - There is dirt, oil and water in the vibrator head.<br>- The O-ring seal is damaged. | - Clean, dry and assemble it again.<br>- Replace the O-ring seal. |

# 6. Disposal instruction

### 6.1 Disposal of the packaging

- Please make reference to the guidelines and standards for appropriate disposal of the packaging valid in your region. In part, the package may consist of plastic bags - watch this respect, with special care to ensure that this is not out of the reach of children. There is a risk of suffocation!

### 6.2 Disposal of waste equipment

- Equipment must be disposed of in accordance with the rules and regulations of the local waste disposal.

### 6.3 Meaning of the "dustbin"

Protect our environment; electrical appliances do not belong in household waste. Use the provided for the disposal of electrical equipment collection points and enter your electrical and electronic equipment that you no longer use. They help ensure that the potential effects of incorrect disposal on the environment and human health to be avoided. So, do your part to recycle, recycling and other forms of recovery of waste electrical and electronic equipment. Information on where the devices are disposed of, please contact your local authorities or local Governments.

# EU Declaration of Conformity

We,

Canbolat Vertriebs GmbH, Gneisenaustraße 10-11, 97074 Würzburg, Germany,

Hereby declare that the product named below, seen its design and construction as well as according to our sales, has been complied with the relevant and basic health and safety EU-requirements.

| Product name | Concrete Vibrator 580 W | Concrete Vibrator 800 W | Concrete Vibrator 800 W |
|---|---|---|---|
| Article No | 4260551587801 | 4260551587795 | 4260551587818 |
| Model No | AR-HE-BR58015 | AR-HE-BR80015 | AR-HE-BR80020 |

If the product has any modification not allowed by us, this declaration loses its validity.

Tested acc. to:
EU Standard:
EN ISO 12100:2010, EN 60745-2-12:2009
EN 60204-1:2006+A1:2009+AC:2010
EN 349:1993+A1:2008, EN ISO 14120:2015
EN ISO 13857:2008, EN 61000-6-1:2017
EN 61000-6-3:2007+A1:2011+AC:2012
EN 61000-3-2:2014, EN 61000-3-3:2013

Date/Manufacturer Signature/Location: Würzburg, 23.11.2018

Identification of the signatory:
Korhan Canbolat, head of the company

Authorised representative for the technical documentation:
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