Bäumr-AG®

Electric Jackhammer

User Manual

[Revision 2.0 October 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • Keep this manual for future reference. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Table of Contents

Safety

General Operational Precautions

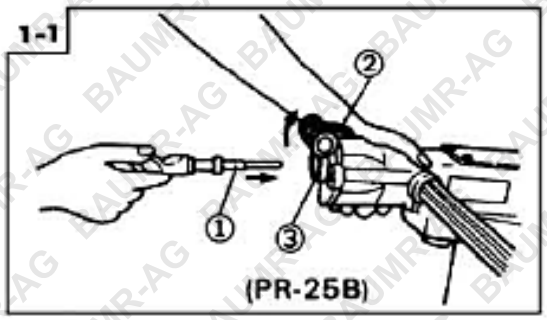
- Keep work area clean. Cluttered areas and benches invite injuries.
- Consider work area environment. Don't expose power tools to rain. Don’t use power tools in damp or wet locations. Keep work area well lit.
- Don't use tool in presence of flammable liquids or gases.
- Power tools produce sparks during operation. They also produce sparks when being switched ON/OFF. Never use power tools in dangerous sites containing lacquer, paint, benzene, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.
- Guard yourself against electric shocks. Prevent bodily contact with grounded surfaces like piles, radiators, ranges, refrigerator enclosures, etc.
- Keep children away. Do not let visitors touch the tool or extension cord. All visitors should be kept away from the work area.
- Store idle tools. When not in use, tools should be stored in a dry and high or locked-up place, out of reach of children.
- Don’t force the tool. It will do the job better and safer at the rate for which it was Intended.
- Use the right tool. Don't force a small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purposes that are not intended for it, like using a circular saw to cut tree limbs or logs.
- Dress property. Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- Use safety glasses. Also use face or dust mask if the work area is dusty.
- Don't abuse the cord. Never carry the tool by the cord or yank it to disconnect it from the receptacle. Keep the cord away from sources of heat, oil and sharp edges.
- Secure the work piece. Use clamps or a vise to hold the work piece down. It’s safer than using your hand and it frees both hands to operate the tool.
- Don't overreach. Keep proper footing and balance at all times.
- Maintain tools with care. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have them repaired by an authorised service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
- Disconnect the tool when not in use, before serving, and when changing accessories such as blades, bits and cutters.
- Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- Avoid unintentional starting. Don't carry a plugged-in tool with a finger on the switch. Be sure that the switch is off when plugging in.

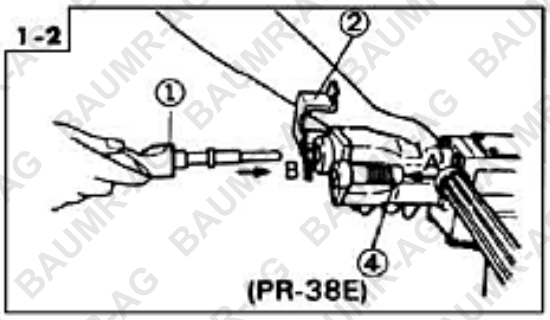
- When tool is used outdoors, use only extension cords that are intended to be used outdoors.
- Stay alert. Watch what you are doing. Use common sense. Do not operate the tool when you are tired.
- Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre, unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by an authorised service centre. Do not use the tool if the switch does not turn on and/or off.
- Do not use power tools for applications other than those specified in the instructions of this manual.
- To ensure the designed operational integrity of power tools, do not remove installed covers or screws.
- Do not touch movable parts or accessories unless the power source has been disconnected.
- Use your tool at a lower input than what is specified on the nameplate; otherwise, the finish may be damaged and working efficiency reduced due to motor overload.
- Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzene, carbon tetrachloride, alcohol, ammonia and oil containing chloric acid may damage and crack plastic parts. Do not wipe them with such solvents. Wipe plastic parts with a soft cloth lightly dampened with soapy water.
- Consult an authorised service agent or centre in the event of a power tool failure.

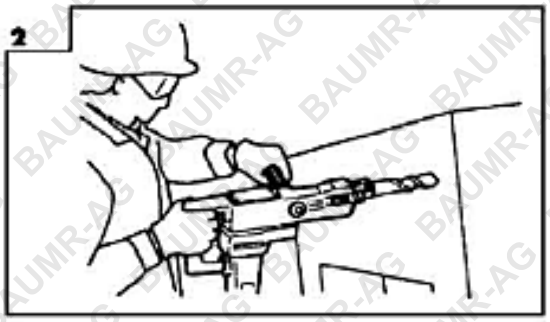
Precautions When Using the Jackhammer

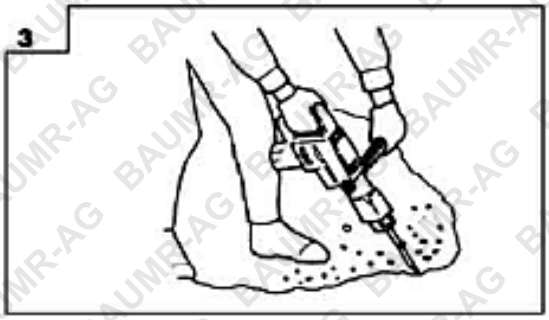
- Wear protective glasses to protect your eyes.
- Wear a mask when turning your head upwards.
- Use earplugs to keep your ears noise-free while working.
- Set the bit holder properly.
- Since the bit becomes very hot during operation, exercise extreme caution when you are near it.
- Be sure to use the side handle.
- Safe operation depends on one’s stable posture.
- At the start of each work, check the oil supply and tighten any loose screws.
- When working at a highly elevated location, pay attention to objects and persons that are below you.
- Before starting to break or chip a wall, floor, or ceiling, confirm thoroughly that no items such as electric cables or conduits are buried inside.
- Wear protective shoes to protect your feet.

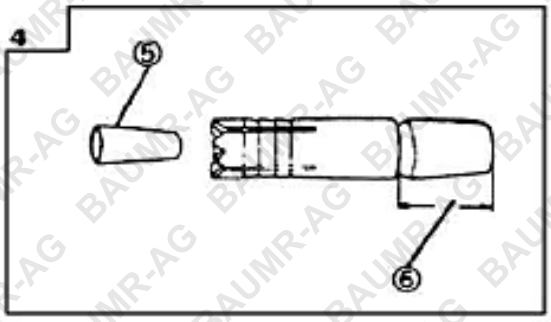
Illustrative Guide

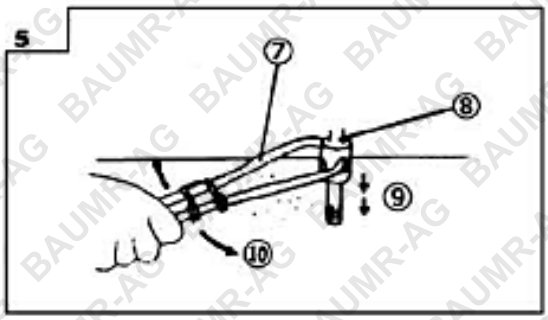


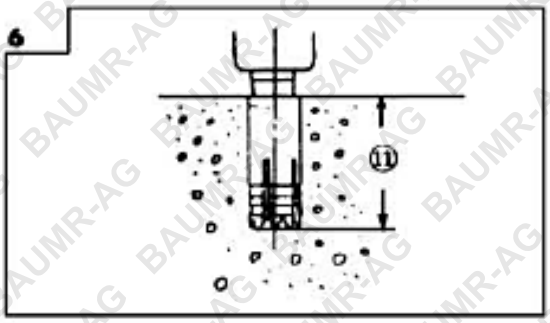


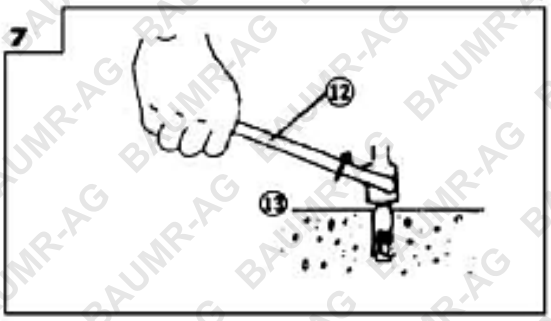


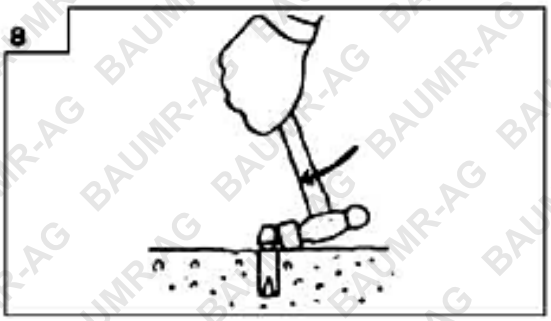


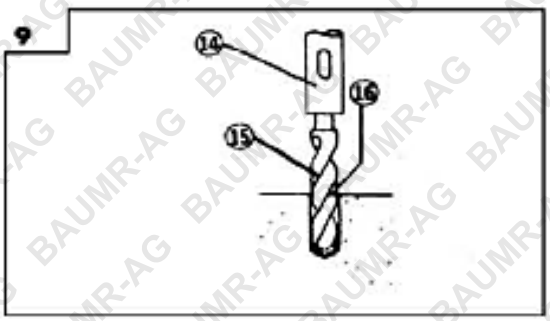












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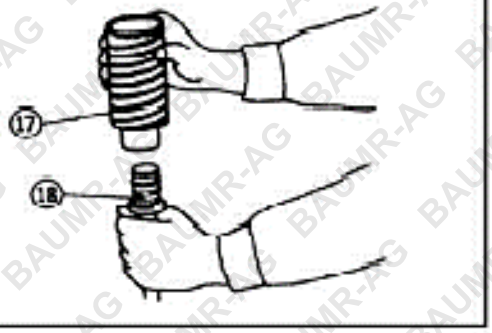

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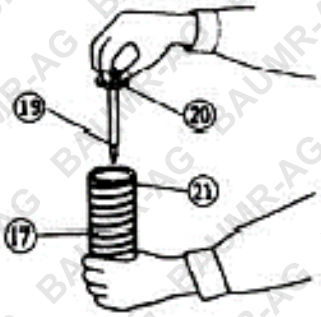

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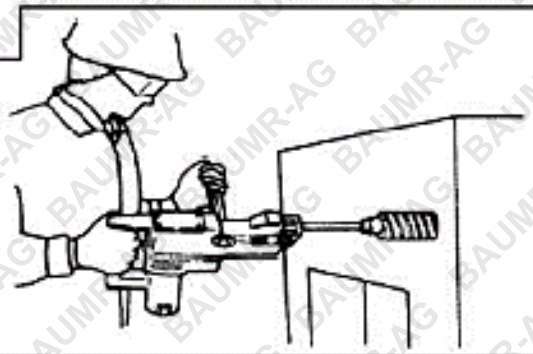

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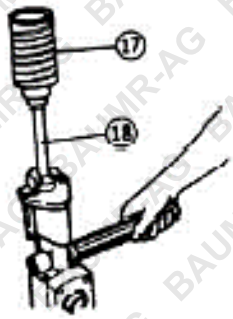

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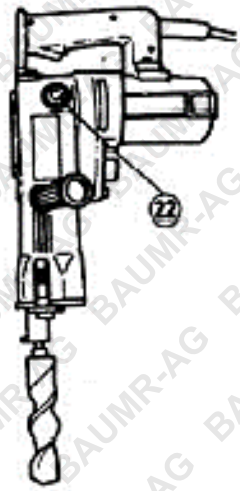

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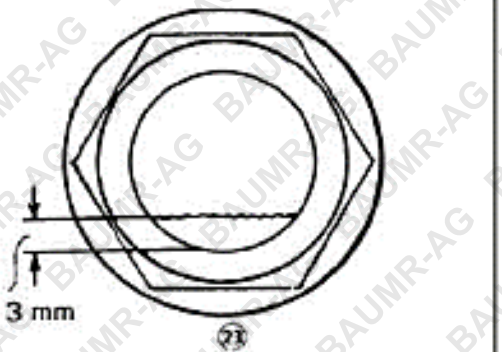

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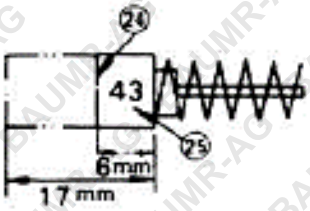

1	Tool	14	Taper shank adapter
2	Retainer	15	Drill bit (with tapered shank)
3	Front cover	16	Hole depth indicating groove: A standard depth conforming to the anchor outside diameter is indicated.
4	Stopper	17	Core bit
5	Plug	18	Core bit shank
6	Snap off this portion after driving in the self-drilling anchor.	19	Centre pin
7	Turning handle	20	Guide plate
8	Anchor adapter	21	Core bit tip
9	Striking by hammer drill	22	Oil gauge: Check the oil quantity by holding the body upright.
10	Move right and left	23	Resupply oil when the oil level drops to less than approx. 3mm.
11	Hole depth	24	Wear limit
12	Drift key	25	No. of carbon brush
13	Wrench out		

Applications

- Drilling holes in concrete
- Drilling anchor bolt holes
- Crushing concrete, chipping, digging, and squaring.

Application Examples

Installation of piping and wiring, sanitary facility installation, machinery installation, water supply and drainage work, interior jobs, harbour facilities and other civil engineering work.

Set-Up

Prior to Operation

Power Source

Ensure that the power source to be utilised conforms to the power requirements specified on the product nameplate.

Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and grounding type plug to fit the proper grounding type receptacle. 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.

Power Switch

Ensure that the power switch is in the OFF position. If the plug is connected to a power receptacle while the power switch is in the ON position, the power tool will start operating immediately, inviting serious accidents.

Extension Cord

When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

25mm

1. Raise the retainer and insert the shank portion of a drill bit into the hexagonal hole on the front cover until it reaches the extremity (Fig. 1-1 in the Illustrative Guide above).
2. By slightly tapping the top of the bit holder with a wooden mallet, replace the bit holder to grip the bit firmly.

38mm

1. Turn the stopper to the direction of arrow A, turn the retainer to the direction of arrow B. After that, insert the tool shank into the hexagon hole on the front cover (Fig. 1 -2 in the Illustrative Guide above).
2. Pushing the stopper to the direction of arrow A, turn the retainer to arrow B in the opposite direction. After that, remove the stopper.

NOTE: When dismounting the bull points, reverse the procedures described above.

Operation

How to Use the Jackhammer

How to Drill Holes

1. Pull the switch trigger after applying the drill bit tip to the drilling position.
2. It is unnecessary to forcibly press the drill main body. It is sufficient to slightly press the drill to an extent that clips are freely discharged.

CAUTION: Although a safety clutch is built in this drill, the drill bit will suddenly stop when it strikes against a buried reinforcing bar, and the drill will start to reverse its spin as a reaction.

Always continue a hole-drilling job while strongly gripping both the side handle and the handle.

How to Clip or Crutch

By applying the drill bit tip to the chipping or crushing position, operate the drill by utilising its own weight. Forcibly pressing or thrusting is unnecessary.

Drilling and Driving-In Operations for Self-Drilling Anchors

When self-drilling anchors (Fig. 4 in the Illustrative Guide above) are used, the anchors can be driven in. In this case, use the optional accessories for self-drilling anchors such as the anchor adapter.

When an Impact Anchor Adapter is Used

1. Attach the running handle to the anchor adapter and create a base hole by applying the drill impact to the position of the hole while manually turning the handle (Fig. 5 in the Illustrative Guide above).

   In this case, the plug is not attached to the anchor.
2. When a predetermined depth has been attained, pull out the anchor tentatively (Fig. 6 in the Illustrative Guide above).
3. By employing a syringe, blow out the chips.
4. Attach the plug to the anchor tip and drive in the anchor again with the Electric Jackhammer.
5. After driving in the anchor, use the drift key to separate the anchor (Fig. 7 in the Illustrative Guide above).
6. By employing a manual hammer or pliers, snap off the tapered portion of the anchor (Fig. 8 in the Illustrative Guide above).

   CAUTION: Since the snapped off tapered portion will be propelled in the air, pay attention to the snapping direction.

When a Rotation and Impact Anchor Adapter is Used

1. Attach a self-drilling anchor to the anchor adapter.
2. Turn ON the switch and drill a base hole with the self-drilling anchor.

   At the start of the hole-drilling, slightly tilt the drill to determine the position of the hole.
3. After clearing out dust with a syringe, attach the plug to the anchor tip and drive in the anchor with a hand hammer.
4. For further operation, follow procedures e and f, described above, when an impact anchor adapter is used.

When a Taper Shank Adapter is Used

1. Attach a drill bit with a tapered shank to the taper shank adapter.
2. Turn ON the switch, and drill a hole until it reaches the hole depth indicating groove (Fig. 9 in the Illustrative Guide above).
3. After cleaning out dust with a syringe, attach a plug to the anchor tip and drive in the anchor with a manual hammer or pliers.

Handling the Core Bit

When a core bit is used, large calibre holes and blind holes can be drilled. In this case, use optional accessories for core bits (such as a centre pin and core bit shank) for a more rational operation.

Mounting

CAUTION: Prior to mounting a core bit, always disconnect the plug from the power supply receptacle.

1. Mount the core bit on the core bit shank (Fig. 10 in the Illustrative Guide above). Before that, apply some oil to the screw portion of the core bit shank for to easily dismount it.
2. Mount the core bit shank onto the drill main body in the same manner as mounting the drill bit and the bull point (Fig. 11 in the Illustrative Guide above).
3. Insert the centre pin into the guide plate until it reaches the extremities.
4. Fit in the guide plate by aligning its concaved portion with the core bit tip. When the position of the concave is shifted by turning the guide plate right or left, the guide plate never slips of even when the drill is used in a downward direction (Fig. 12 in the Illustrative Guide above).

Drilling Holes

1. Insert the plug into a power supply receptacle.
2. A spring is built in the centre pin. By gently pressing it to the wall or floor surface in a straight direction, the entire surface of the core bit tip attains contact to start the hole drilling job.
3. When the hole depth reaches approximately 5mm, the hole position can be determined. Then remove the centre pin and guide plate from the core bit and continue the hole drilling job.

   CAUTION: when removing the centre pin and guide plate, always disconnect the plug from the power supply receptacle.

Dismounting the Core Bit

1. By holding the drill (with the core bit inserted) in an upward position, drive the drill to repeat impact operation two or three times, whereby the screw is loosened and the drill becomes ready for disassembly.
2. Remove the core bit shank from the drill, hold the core bit with one hand, and vigorously strike the head of the hexagonal portion of the core bit shank with a hand hammer two or three times, whereby the round head screw is loosened and the drill is ready for disassembly.

Oil Feeding

CAUTION: Prior to oil feeding, always disconnect the plug from the power supply receptacle.

Since an oil chamber is built in this Electric Jackhammer, it can be used for approximately 20 days without supplying it with lubricating oil, assuming that the drill is used continuously for 3 – 4 hours daily.

Feed oil into the oil tank as described below before using the Jackhammer (See Figs. 15 and 16 in the Illustrative Guide above).

1. If no oil is visible in the oil gauge window when the tool is held upright, feed it with new oil.
2. Before feeding the tool with oil, use the wrench provided to remove the oil gauge.
   Be careful not to lose the rubber packing attached below the oil gauge.
3. Check the oil level once daily, confirming that the oil gauge is properly filled.
4. After feeding it with oil, clamp the oil gauge securely.

Maintenance

Inspecting the Tool

Since use of a dull tool will degrade efficiency and cause possible motor malfunction, sharpen or replace the tool as soon as you note an abrasion

Inspecting the Mounting Screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in hazardous situations.

Maintenance of the Motor

The motor unit winding is the very ‘heart” of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

Inspecting the Carbon Brushes

(See Fig. 17 in the Illustrative Guide above).

The motor employs carbon brushes which are designed to be replaceable. When they become worn or near the ‘wear limit’, it may result in motor trouble. When an auto-stop carbon brush is equipped, the motor will stop automatically. At that time, replace both carbon brushes, as shown in Figure 4 in the Illustrative Guide above. In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

Replacing the Carbon Brushes

The carbon brush can be removed by removing the tail cover and brush cap in that order at the interior.

Inspecting the Dust Cover

The dust cover functions as a protection from dirt and dust for the interior mechanism. When the interior of the dust cover is worn-out, replace it with a new dust cover. The dust cover can be removed by pulling it.

Specifications

Motor Type	Induction Commercial Grade
Current	4 Amps
Maximum Power	1050W
Rated BPM	400 BPM
Tool Mount Size	1/2"
Tool Mount	Industry Standard 1/2"
Tool Size	410mm
Frequency	50Hz
Operating Voltage	240v
Machine Length (w/ tool)	642mm
Cord Length	3000mm
Compatible Drill Bits	Hitachi PR38E

Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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