



Post Hole Digger Drill

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.



The product is NOT supplied with engine oil, although traces of oil from the manufacturing process may be present. It is essential to add adequate engine oil of the correct type to the engine before use – see [Engine Oil](#). **Failure to add engine oil will void the product warranty.**

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INTRODUCTION

To correctly use the Post Hole Digger Drill and prevent accidents, do not start your work without having first carefully read this manual. You will find explanations concerning the operation of the various parts plus instructions for necessary checks and relative maintenance.

NOTE: ILLUSTRATIONS AND SPECIFICATIONS IN THIS MANUAL MAY VARY ACCORDING TO COUNTRY REQUIREMENTS AND ARE SUBJECT TO CHANGE WITHOUT NOTICE BY THE MANUFACTURER.



WARNING!!!

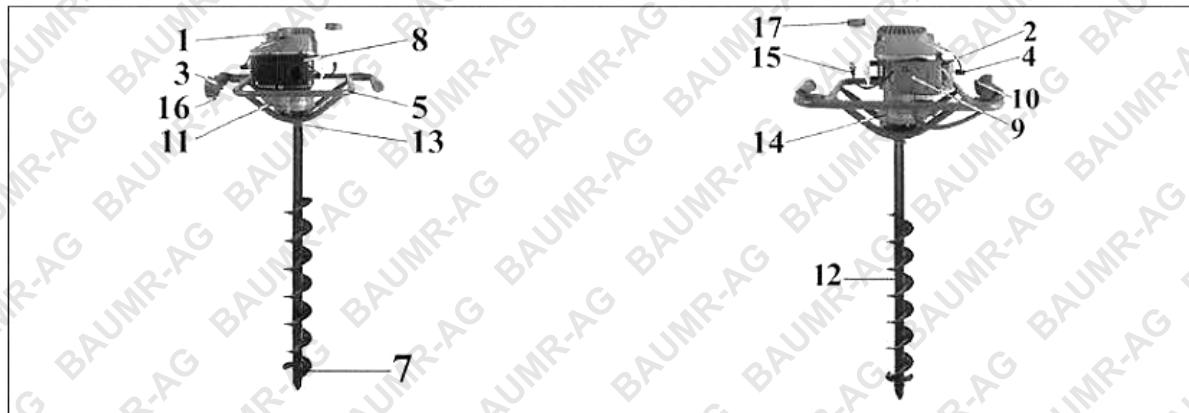


RISK OF DAMAGING HEARING

IN NORMAL CONDITIONS OF USE, THIS MACHINE MAY INVOLVE A DAILY LEVEL OF PERSONAL EXPOSURE TO NOISE FOR THE OPERATOR EQUAL TO OR GREATER THAN

110 DB (A)

COMPONENTS



1	Starter handle
2	Choke lever
3	On/Off switch
4	Spark plug
5	Bar
7	Share
8	Muffler guard
9	Air filter cover

10	Half-throttle button
11	Reduction gearbox grease cap
12	Bit
13	Bit stop pin
14	Reduction gearbox
15	Fuel tap
16	Throttle trigger
17	Fuel tank cap

SAFETY PRECAUTIONS



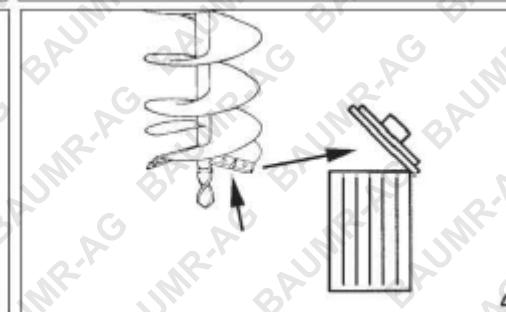
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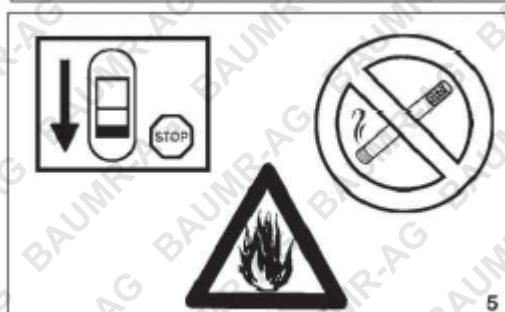
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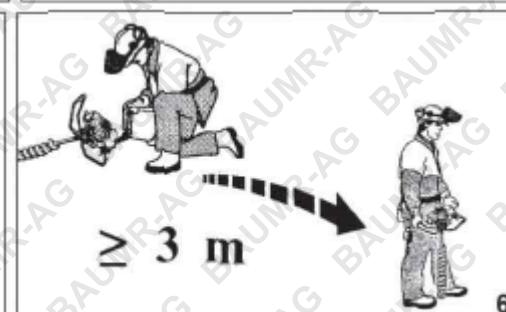
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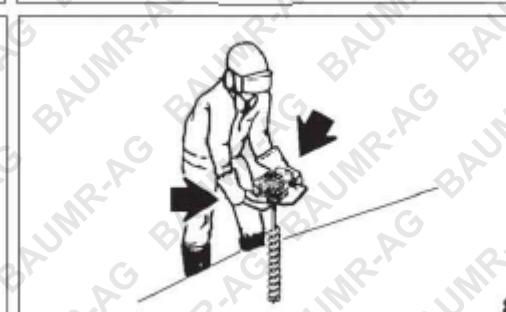
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7



8

WARNING!

IF USED CORRECTLY, THE POST HOLE DIGGER DRILL IS A POWERFUL, FAST, HIGH PERFORMANCE TOOL; IF USED IMPROPERLY OR WITHOUT THE DUE PRECAUTIONS, IT COULD BECOME A DANGEROUS TOOL. FOR A SAFE AND PLEASANT WORK, ALWAYS COMPLY STRICTLY WITH THE SAFETY RULES THAT FOLLOW, AS WELL AS THOSE FOUND THROUGHOUT THIS MANUAL.

- The Post Hole Digger Drill must only be used by adults in good physical condition, with knowledge of the operating instructions.



POST HOLE DIGGER DRILL

- Do not operate the Post Hole Digger Drill when you are tired, fatigued or under the effect of alcohol and/or drugs (Figure 1).
- Never wear scarves, bracelets or anything else which could get caught by the machine or bit. Wear close-fitting safety clothing (see [Protective Clothing Guide](#)).
- Wear protective non-slip safety shoes, gloves, glasses, ear protection and safety helmet (see [Protective Clothing Guide](#)).
- Do not allow other people to be within the operating range of the Post Hole Digger Drill while starting, calibrating and using it (Figure 2).
- Do not start working until you have cleared the work area. Do not work near electric cables.
- Only use the Post Hole Digger Drill in well-ventilated areas, do not operate the Post Hole Digger Drill in combustible or flammable atmospheres or in closed environments (Figure 3).
- Carry the Post Hole Digger Drill while the engine is turned off, with its bit removed.
- Replace the bit immediately if any cracks or other damages are present (Figure 4).
- Fill the tank away from sources of heat and with the engine turned off (Figure 5). Never smoke while filling (Figure 5). Never take the cap off the tank when the engine is still running. If fuel spills over while filling, move the Post Hole Digger Drill at least three metres (10 feet) away before starting again (Figure 6).
- Always keep the handles clean and dry.
- Before starting, make sure that the bit is not obstructed.
- Always work in a safe, firm-footed position (Figure 7).
- Never touch the bit or carry out maintenance while the engine is still running.
- Make sure that the bit will not turn when the engine is turned off.
- Grip the Post Hole Digger Drill firmly with both hands (Figure 8) and keep all parts of the body away from the bit and muffler.
- Never attempt to carry out servicing or repairs that are not part of the routine maintenance. Call specialised and authorised workshops only.
- Store the Post Hole Digger Drill off the ground in a vertical position in a dry place and with the fuel tank empty.
- Check the Post Hole Digger Drill each day to ensure that each device, whether for safety or otherwise, is functional.
- When working, transport the Post Hole Digger Drill from one place to another only when the engine is turned off.
- Never use a damaged, modified, or improperly repaired/assembled Post Hole Digger Drill. Do not remove, damage or deactivate any of the safety devices. Only used bit of the type indicated in the [table](#).
- Do not test the spark plug near the cylinder hole.
- Do not use the Post Hole Digger Drill until you have completely understood the specific operating methods. Always follow the manufacturer's instructions for the maintenance operations.
- Never use fuel for cleaning operations.

POST HOLE DIGGER DRILL

- If the bit jams up, release the throttle trigger and stop the engine immediately.
- If your Post Hole Digger Drill is no longer usable, dispose of it properly without damaging the environment by handing it in to your local dealer who will arrange for its correct and proper disposal.
- Only loan your Post Hole Digger Drill to expert users who are completely familiar with the operation and correct usage of power drills.
- All services, other than the operations shown in the manual, should be performed by a competent personnel.
- Keep this manual on hand and refer to it before each use of the tool.
- Do not attach the Post Hole Digger Drill to fixed supports.
- Hitching tools or appliances to the P.T.O that are not specified by the manufacturer are not allowed.

PROTECTIVE CLOTHING GUIDE



1

Size M	p.n. 001000844
Size L	p.n. 001000845
Size X	p.n. 001000846
Size XX	p.n. 001000847



2

Size M	p.n. 001000931
Size L	p.n. 001000932
Size X	p.n. 001000933
Size XX	p.n. 001000934



3A

p.n. 0010008.13



3B

p.n. 001000835

POST HOLE DIGGER DRILL**4**

Size 41	p.n. 001000975
Size 42	p.n. 001000976
Size 43	p.n. 001000977
Size 44	p.n. 001000978
Size 45	p.n. 001000979

**5**

Size 41	p.n. 001001079
Size 42	p.n. 001001080
Size 43	p.n. 001001081
Size 44	p.n. 001001082
Size 45	p.n. 001001083

**6**

Size S/M	p.n. 001000882
Size L/XL	p.n. 001000883

While working with the Post Hole Digger Drill, always use approved protective clothing. The use of protective clothing does not eliminate risks of injuries, but also reduces the effects of injuries in case of an accident. Consult your trusted supplier to choose adequate equipment.

The clothing must be proper and should not be an obstacle. Wear adherent protective clothing.

OLEO-MAC PROTECTIVE JACKETS (FIGURE 1) AND END DUNGAREES (FIGURE 2) ARE IDEAL.

Do not wear clothes, scarves, ties or bracelets that can get stuck in the moving parts of the tool.

Tie up and protect long hair (example with foulards, caps, helmets, etc.).

SAFETY SHOES OR BOOTS HAVING SKID-PROOF SOLES AND ANTI-PIERCING INSERTS (FIGURES 4 AND 5).

WEAR PROTECTIVE HELMET (FIGURE 3A) in places where there can be falling objects and debris.

WEAR PROTECTIVE GOGGLES OR FACE SCREENS!

PROTECT YOUR HEARING AGAINST VERY LOUD NOISES; FOR EXAMPLE NOISE REDUCTION EAR GUARDS (FIGURE 3B) OR EARPLUGS. The use of ear guards/plugs requires much more attention and caution because the perception of danger from auditory signals (screaming, alarms, etc.) is greatly limited.

WEAR GLOVES (FIGURE 6) THAT PERMIT THE MAXIMUM ABSORPTION OF VIBRATIONS.

OLEO-MAC OFFERS A COMPLETE RANGE OF SAFETY EQUIPMENT.

ASSEMBLING THE POST HOLE DIGGER DRILL



LUBRICANT FOR REDUCTION GEARBOX (FIGURE 1).



WARNING!

THE POST HOLE DIGGER DRILL IS SUPPLIED WITH TAMOIL TAMLITH GREASE 2 (150 G) GREASE IN THE REDUCTION GEARBOX.

Remove the screw (A) under the reduction gearbox and check for the presence of grease.

FITTING BITS (FIGURES 2 - 3)

Fit the reduction shaft (B) into the seat on the bit (D) and secure it using the appropriate gudgeon pin (C).



WARNING!

DO NOT CHANGE THE RATIO OF THE REDUCTION GEARBOX. THE CHARACTERISTICS OF THE MACHINE COULD CHANGE AND UNFORESEEN REACTIONS COULD OCCUR.

WORKING RULES



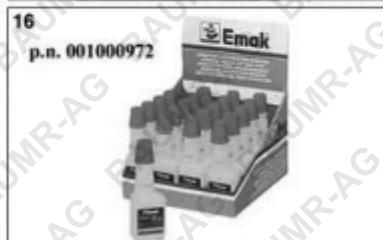
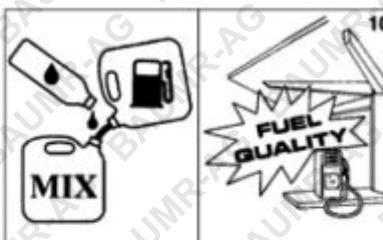
WARNING!

ALWAYS FOLLOW SAFETY RULES. THE POST HOLE DIGGER DRILL MUST ONLY BE USED TO DRILL THE GROUND. DO NOT LOCK THE POST HOLE DIGGER DRILL ONTO FIXED SUPPORTS. IT IS FORBIDDEN TO APPLY TOOLS OR APPLICATIONS OTHER THAN THE ONES INDICATED BY THE MANUFACTURER ONTO THE P.T.O. OF THE POST HOLE DIGGER DRILL.

WHILE WORKING FIRMLY HOLD, WITH BOTH HANDS, THE HANDLE TO BE ABLE TO GET GOOD RESISTANCE IN CASE THE BIT FINDS AN OBSTACLE IN THE SOIL (STONES, ROOTS, ETC.).

FUELING THE POST HOLE DIGGER DRILL

GASOLINE - BENZIN		OIL		9
		2% - 50:1	4% - 25:1	
1	1	(20)	0,04	(40)
5	5	(100)	0,20	(200)
10	10	(200)	0,40	(400)
15	15	(300)	0,60	(600)
20	20	(400)	0,80	(800)
25	25	(500)	1,00	(1000)



FUEL MIXTURE

- Use a 4% (25:1) petrol/oil mixture. Refer to Figures 9 – 10.
- With Oleo-Mac PROSINT oil, use a 2% (50:1) mixture.



WARNING!

THE 2-STROKE ENGINES HAVE HIGH POWER RATINGS; WE THEREFORE RECOMMEND THE USE OF LEADED OR UNLEADED PETROL OF A KNOWN BRAND, WITH AN OCTANE RATING NO LOWER THAN 90. THE TYPE OF GASOLINE TO BE USED (LEADED OR UNLEADED) IS REGULATED BY LOCAL LAWS. IT MUST BE FOLLOWED!

- Store petrol, oil and the mixture in approved containers (Figure 11).
- To prepare the mixture, use only **SPECIFIC OIL FOR 2-STROKE ENGINES** (Figure 12).

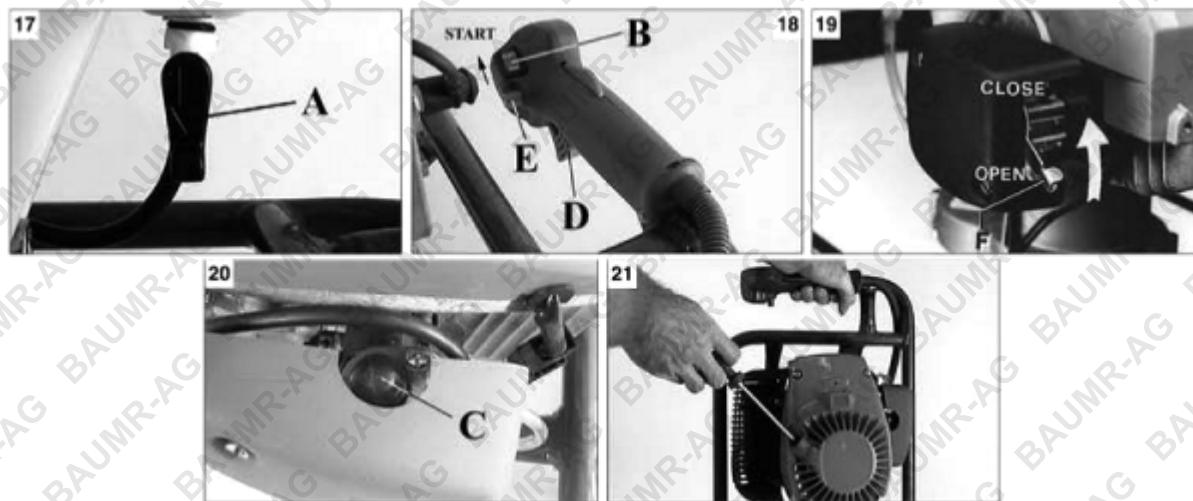
POST HOLE DIGGER DRILL

- Stir the mixture well before refuelling (Figure 13).
- Always refuel (Figures 14 – 15) with the engine turned off and away from flammable environments.
- Before unscrewing the fuel tank cap, position the Post Hole Digger Drill on a solid, flat surface so that it cannot fall over. Open the cap carefully to allow any excess pressure to escape slowly without the fuel spraying out.
- Prepare only the quantity of mixture required for immediate use; do not leave the fuel in the tank or a container for a long time. We recommend the use of the additive Emak **ADDITIX 2000** (Figure 16) code **001000972** if the mixture is to be stored for up to a year.

**WARNING!**

INHALATION OF EXHAUST GASES CAN BE HARMFUL TO YOUR HEALTH.

STARTING THE POST HOLE DIGGER DRILL



STARTING THE ENGINE

Open the fuel tap (A, Figure 17). Put the switch (B, Figure 18) in the "I" position. Pull the throttle lever (D) and lock it in the half-throttle position by pressing the button (E), then release the lever (D), put the choke lever (F, Figure 19) in the "CLOSE" position. Fill the carburettor by pushing the primer bulb (C, Figure 20). Grip the handle on the throttle side, lean the bar against your body and pull the starter rope until it meets resistance (Figure 21).

Pull the starter rope hard a few times and when the engine begins to turn, bring the choke lever (F, Figure 19) back to the original position "OPEN". Repeat the procedure until the engine starts.

Once the engine is running, press the throttle (D, Figure 18) to release it from the half-throttle position and let the engine go idle.



WARNING!

DO NOT USE THE CHOKE WHEN STARTING A HOT ENGINE (F, FIGURE 19). WHEN THE ENGINE IS IDLE, THE BIT SHOULD NOT TURN.

IF THE BIT JAMS UP, STOP THE ENGINE IMMEDIATELY.

BREAKING-IN THE ENGINE

The engine reaches the maximum power after 5 – 8 hours of activity.

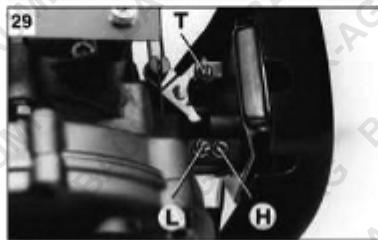
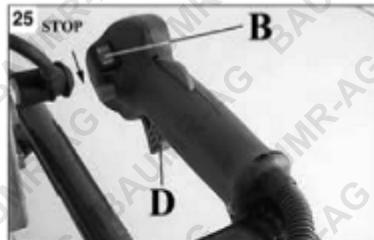
During this period of breaking-in, do not make the machine function idly at full throttle to avoid excessive functional stress.



WARNING!

DURING THE BREAKING-IN PERIOD DO NOT VARY THE CARBURETION TO OBTAIN A PRESUMED POWER INCREMENT; THE ENGINE CAN BE DAMAGED.

STOPPING THE ENGINE



H – High speed adjustment screw
L – Low speed needle
T – Idle adjustment screw

Bring the throttle to the idle position (D, Figure 25) and wait until the engine cools down. Switch the engine off by putting the on/off switch (B) in the "STOP" position.

CARBURETTOR

Before adjusting the carburettor, clean the starter cover (Figure 27), the air filter (G, Figure 26) and warm up the engine. This engine is designed and manufactured in order to comply with the applicable 97/68/EC and 2002/88/EC Directive.

THE CARBURETTOR (FIGURE 29) IS DESIGNED TO PERMIT ONLY THE ADJUSTMENT OF L AND H SCREWS IN A RANGE OF A ROUND; the half around the half round range admissible for Land H screws is determined by the manufacturer and you cannot modify it.



WARNING!
DON'T TRY TO FORCE THE SCREWS OUTSIDE THE RANGE!

Idle screw T is adjusted in order to ensure a good safety margin between idle running and clutch engagement.

Screw L must be adjusted so that the engine promptly responds to sharp accelerations and gives good idle operation.

Screw H must be adjusted so that the engine gives maximum power during the cutting phase.



WARNING!
WEATHER CONDITIONS AND ALTITUDE MAY AFFECT CARBURATION.
DO NOT ALLOW ANYONE TO STAY CLOSE TO THE POST HOLE DIGGER DRILL WHILE WORKING OR WHILE ADJUSTING THE CARBURETTOR.

MAINTENANCE AND STORAGE



AIR FILTER

Every eight hours, remove the cover (A, Figure 33) and the filter (G). The filter (G) should be washed with petrol and dried before refitting it.

FUEL FILTER

Check the fuel filter periodically. Replace it if it is too dirty (Figure 34). A dirty filter can cause difficult starting and lowers the engine's performance.

STARTING UNIT

Use a brush or compressed air to keep the cooling louvers of the starter assembly free and clean (Figure 35).

ENGINE

Clean the cylinder fins (Figure 36) with compressed air or a brush periodically. Dangerous overheating of engine may occur due to impurities on the cylinder.

SPARK PLUG

Clean the spark plug and check the electrode gap periodically (Figure 37). Use Champion RCJ-7Y or other brands with the same thermal grade.

BIT

Always check the drill bit. Sharpen or replace it if it is worn out.

REDUCTION GEARBOX

Every 100 working hours, change the grease in the reduction gearbox (A, Figure 39).

STORAGE

Follow all the maintenance procedures described previously. Clean the Post Hole Digger Drill completely and grease the metallic parts. Remove, clean and oil the drill to prevent rust from developing. Empty the fuel tank and put the cap back on. Remove the spark plug and pour a small amount of oil into the cylinder (Figure 40). Using the starting rope (Figure 41), rotate the crankshaft to distribute the oil. Put the spark plug back in. Store the power drill in a dry place, preferably off the ground and away from heat sources.



WARNING!

MAINTENANCE PROCEDURES THAT ARE NOT REPORTED IN THIS MANUAL MUST ONLY BE CARRIED OUT BY AN AUTHORISED SERVICE PERSONNEL. ONLY USE ORIGINAL SPARE PARTS.

TECHNICAL SPECIFICATIONS

ENGINE TYPE	Petrol EURO 2 - Two Stroke Commercial
DISPLACEMENT	75cc
MAXIMUM ENGINE SPEED	10,000 RPM
REDUCTION RATIO	40:1
FUEL TANK CAPACITY	1.2 Litre
FUEL TYPE	Regular Unleaded 95 +RON
FUEL MIX	25:1 to 40:1 (25 parts fuel to 1 part 2 stroke oil)
AUGERS SIZE	100, 200, 300mm (Diameter); 100cm (Length)
EXTENSION SHAFT	600mm (L)
NET WEIGHT	8.5kg

DUAL WEIGHTED CRANK / DOUBLE RINGED PISTON



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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