



**CORE CUT
OPERATOR'S MANUAL**

**TR40
HIGH CYCLE RING SAW**

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Introduction

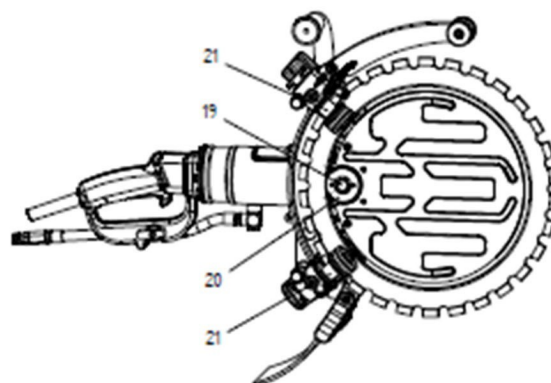
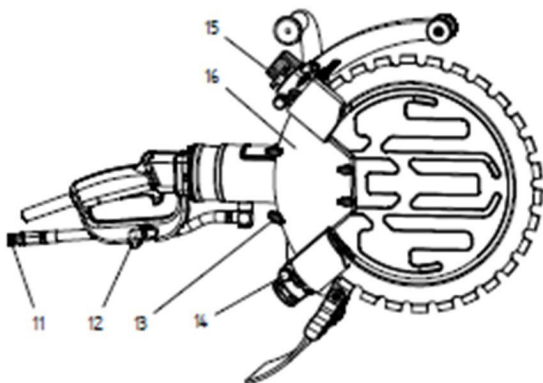
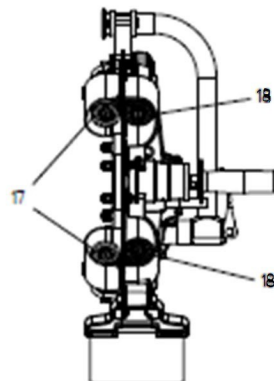
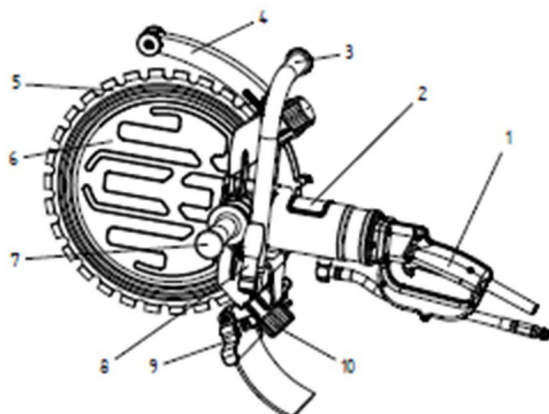
Welcome to the Diamond Products family and thank you for choosing Diamond Products equipment. At Diamond Products we are driven to ensure you are completely satisfied with your product and continually strive to improve our product line so that we can offer you the best possible equipment in the industry.

This operator's manual is a critical document that provides pertinent information regarding the safety, operation, maintenance, and care of your new equipment. Keep this manual available at all times. Operate the equipment and all of its components according to this manual. Failure to comply with and understand the following safety, operation and maintenance instructions can result in serious injuries and/or death. All operators must be properly trained or supervised by experienced personnel prior to using this equipment and should understand the risks and hazards involved. Diamond Products discourages improper or unintended equipment usage and cannot be held liable for any resulting damages.

Equipment modifications should be made by Diamond Products to ensure safety and design. Any modifications made by the owner(s) are not the responsibility of Diamond Products and void all equipment warranties if a problem arises as a result of the modification.

Refer to the Diamond Products Parts List for additional information and part diagrams. Refer to the engine/motor manual and manufacturer as the primary source for all safety, operations, and maintenance instructions regarding the engine/motor. Prior to operating, record the equipment's serial number, and the engine's/motor's model and serial numbers in Appendix.

Equipment Overview



1	Switch Handle	12	Ball Valve
2	Drive Unit	13	Wing Screw
3	Adjustable Handle	14	Hex Head Screw
4	Guard Bow	15	T-Knob
5	Saw Blade	16	Cover
6	Guide Blade	17	Support Roller
7	Additional Handle	18	Guide Roller
8	Eccentric Lever	19	Hex Head Screw
9	Stand	20	Drive Wheel;
10	Knob	21	Eccentric Shaft
11	Plug Nipple		

Equipment Specifications

Rated Voltage	230V	480V
Rated Current	16amp	13.5amp
Power Input	3700W	6500W
Power Output	2700W	4800W
Frequency - Input	50 - 60 Hz	
Max. speed output shaft	2000rpm	
Weight - without sawing equipment	27.6 Lb	
Recommended minimum water flow	1 gmp	
Water protection class	IP 55	

Max. saw blade diameter	15.75in
Max. cutting depth	11.81in
max. cutting speed	42 m/s

Safety Precautions

Operate the equipment and all of its components according to this manual. Failure to comply with and understand the following safety, operation and maintenance instructions can result in serious injuries and/or death. All operators must be properly trained or supervised by experienced personnel prior to using this saw and should understand the risks and hazards involved. Diamond Products discourages improper or unintended equipment usage and cannot be held liable for any resulting damages.


Equipment modifications should be made by Diamond Products to ensure safety and design. Any modifications made by the owner(s) are not the responsibility of Diamond Products and void all equipment warranties if a problem arises as a result of the modification.

Refer to the Diamond Products Parts List for additional information and part diagrams. Refer to the engine manual and manufacturer as the primary source for all safety, operations, and maintenance instructions regarding the engine. Prior to operating, record the saw's serial number, and the engine's model and serial numbers.


Notice: The information in this manual may be updated at any time!


Safety Alerts

 **DANGER**
Serious injuries and/or death will occur if these instructions are not followed.


 **WARNING**
Serious injuries and/or death could occur if these instructions are not followed.

 **CAUTION**
Mild and/or moderate injuries could occur if these instructions are not followed.


 **WARNING**
Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and/or other



Spark Arrester Requirement

 **WARNING**
In the State of California it is a violation of section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in section 4442, maintained in effective, working order or the engine is constructed, equipped, and maintained for the prevention of fire pursuant to section 4442.

Respiratory Hazards

 **WARNING**
Concrete cutting produces dust and fumes known to cause illness, death, cancer, respiratory disease, birth defects, and/or other reproductive harm. Safety protection techniques include, but are not limited to:

- Wearing gloves.
- Wearing safety goggles or a face shield.
- Using approved respirators.
- Washing work clothes daily.
- Using water when wet cutting to minimize dust.
- Washing the hands and face prior to eating/drinking.

For additional safety and self-protection information contact your employer, the Occupational Safety and Health Administration (OSHA), and/or The

General Safety

- Read and understand all safety, operations, and maintenance instructions provided in this manual prior to operating or servicing the saw.
- Keep equipment components clean and free of slurry, concrete dust, and debris.
- Inspect water hoses prior to operating the equipment. Clean, repair, or replace damaged components.
- Raise the equipment to a proper height for access when working underneath the equipment. Use chocks to block the wheels, and fit blocks or jacks under the frame edges.
- When using a jack to raise the equipment, place the jack against a solid, flat area under the frame base to properly support the equipment.
- Repair the equipment immediately when a problem arises.
- Replace equipment decals if unreadable.
- Dispose of all hazardous waste materials according to city, state, and federal regulations.
- Always have a phone nearby, and locate the nearest fire extinguisher and first aid kit prior to operating the equipment.
- Operate the equipment wearing flame resistant clothing.
- Always wear safety glasses when removing retaining rings.
- Persons under the statutory age limit should not operate the equipment.
- Keep all body parts away from rotating machinery.
- Replace all guards and access panels (unless stated otherwise) prior to operating the equipment.
- Chock the wheels to help prevent unnecessary movement.
- This diamond ring saw is only intended for industrial use and may only be operated by trained personnel.
- Proper use extends only to the sawing of rock, concrete and masonry. The saw must not be used for cutting pure metals.
- For operation the relevant regulations must be observed.
- Power tools must regularly (approx. 6 months) be checked on safety by a specialist according to DGUV V3.
- Never deposit the ring saw until the blade has come to a complete stop. The rotating blade can get into contact with the surface whereby you may lose control of the ring saw.
- Do not operate the ring saw while you carry it. Your clothes can be captured by accidental contact with the saw blade.
- If a disc saw is used for cutting, care must be taken that the thickness of the cutting blade matches to the ring saw blade. Never use a disc saw with a conventional cutting disc for cutting. The narrow saw groove produced in this case leads to a jamming of the ring saw blade and can lead to dangerous kickback.
- Keep your working area clean and well illuminated. Disorder or unilluminated working areas can cause accidents.
- Do not work in explosive ambiances with the electric tool, in which there are flammable liquid, gases or dusts. Electric tools generate sparks which can inflame the dust or vapors.
- Keep children and other persons away from the electric tool while using it. When being distracted, you can lose the control on the device.
- Be attentive, pay attention to what you do and go to work with the electric tool with reason. Do not use an electric tool when you are tired or under the influence of drugs, alcohol or pharmaceuticals. One moment of carelessness while using an electric tool can cause serious injuries.
- Wear personal protective equipment and always goggles. The wearing of personal protective equipment, like dust mask, skid-proof shoes, protection helmet or hearing protection, depending on the kind and use of the electric tool reduces the risk of injuries.
- Avoid unintended start up. Make sure that the electric tool is switched off before connecting it to the mains and/or the battery, picking it up or carrying it. When you have your finger on the switch while carrying the electric tool or connect the device to the mains when it is switched on, this can cause accidents.
- Remove adjusting tools or wrenches before switching on the electric tool. A tool or wrench which is located on a turning device can cause injuries.
- Avoid abnormal posture. Care for safe standing and keep the balance anytime. Do not work on a ladder. Thus you can control the electric tool better in unexpected situations.
- Wear suitable clothing. Do not wear wide clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Wide clothing, jewelry or long hair can be caught by moving parts.

- If there is the possibility to assemble a dust exhauster and collecting device, make sure that these are connected and used correctly. The use of a dust exhauster can reduce dangers by dust.

DO NOT:

- Drop equipment, supplies, tools, etc., when handling to help prevent injuries.
- Lift and carry equipment, supplies, tools, etc., that are too heavy and/or cannot be lifted easily.
- Operate the equipment without using the appropriate safety equipment required for the work task.



- Operate or service the equipment with any clothing, hair, or accessories that can snag in the machinery, which could lead to serious injuries or death!
- Operate the equipment using attachments not associated with or recommended for the equipment.
- Operate the equipment around combustible materials or fumes to prevent fires/explosions.
- Operate the equipment with anyone near the work area or within the direct line of the blade.
- Operate the equipment until all unnecessary materials have been removed from the work area.
- Operate the equipment with loose nuts, screws, and bolts.
- Operate the equipment when ill or fatigued.
- Operate the equipment under the influence of drugs and/or alcohol.
- Operate the equipment on steep slopes.
- Cut concrete with guards and access panels removed.
- Grease the equipment with the engine running.
- Touch hot components when operating the equipment.
- Leave the equipment unattended until the engine is off and the blade has stopped spinning.
- Place the equipment into storage until it has cooled down.
- Service the equipment until it has cooled down.

- Service the equipment with the engine running.

Electrical Safety

- Do not modify plug.
- Avoid body contact with grounded surfaces that could increase the risk of shock.
- Keep tool away from rain and wetness.
- Only use extension cords that are approved for the saw
- If working in humid areas, use a GFCI.

Blade Guard and Saw Blade Safety

- Check that the guard of the machine is correctly fitted and without any cracks or deformations before starting the machine. The guard always has to be fitted to the machine during operation.
- Check that the saw blade is fitted correctly and does not show signs of damage. A damaged saw blade can cause personal injury.
- Only use such saw blades that fulfill all requirements of this ring saw.
- Never use a saw blade at a lower speed rating than that mentioned on the ring saw and in these operating instructions. Accessories that turn faster than permitted may be damaged.
- When using a saw blade make sure that it rotates in the direction indicated by the arrow on the blade. There is an arrow on the machine that indicates the shafts direction of rotation that the blade is mounted on.
- Never use a cutting blade for any other materials than that it was intended.
- Do not transport the ring saw with the saw blade fitted. All blades should be removed from the ring saw after use.
- Saw blades for this saw must always be cooled with water in order to avoid overheating. If the saw blade is not cooled, personal injury and property damage may occur.

Operation

Starting and Stopping Saw

Starting

- This machine has a lock-off type switch. First press the trigger release, then squeeze the trigger switch to switch on. For safety reasons, the switch is not possible to lock on.



Stopping

- Release the trigger switch to stop the machine. After the machine has been switched off, the chain will still rotate for a few seconds, take care that parts of your body do not come into contact with the chain while it is still rotating!

WARNING: Do not set the machine down until the chain has stopped turning.

Electrical Connection

- Connect the TR40 via the frequency converter FU6U and via the adapter cable only on a properly earthed shockproof socket. If required use only high-quality extension cords with sufficient cross section.
- For 230V Up to 100m length - 3G2,5 quality, e.g. H 07BQ-F or H 07RN-F
- For 480V Up to 100m length - 4G2,5 quality, e.g. H 07BQ-F or H 07RN-F
- Take care that the extension cord is not rolled up on use for reaching a sufficient heat removal. Consider that the TR40 takes the maximal power from the electrical mains.
- If you change the operation mode of the ring saw TR40 between 230V~ und 480v~3P the frequency converter FU6U has to be disconnected for approx. 2 minutes in order to discharge the intermediate circuit and re-initialize the controller.

TR40 and FU6 can be used at a generator or a transformer provided by the construction site, if following conditions are kept:

- operating voltage within +5% and – 10 % to nominal voltage
- integrated automatic voltage controller with start amplification
- frequency 50 – 60Hz; max. 65 Hz
- AC voltage, power output at least:

230V ~	-	4 kVA
480V 3~	-	11 kVA

Cutting Technique

- Care for safe standing and keep the balance anytime. Always hold the machine in a firm grip with both hands.
- When sawing, always stand parallel to the saw blade. Do never stand directly behind the saw blade as the saw will move in the plane of the blade in case of a kickback. Never use the kickback area of the ring saw for cutting.
- Never cut above shoulder height.
- Do not use the ring saw from a ladder. Use a scaffolding if you are cutting above the shoulder height.
- Check that the saw blade is not in contact with anything when the machine is started.
- Avoid blockage of the saw blade by excessive pressure, lateral stress and excessively deep cuts. Let the machine work without excessive force. Lateral loading of the bar and the diamond chain can lead to material and personal injury.
- Support the work piece in such a way that no unpredictable movement is possible, and so that the cut remains open while cutting.
- When cutting openings, first perform the lower horizontal cut, then the two vertical cuts. Finish with the upper horizontal cut. If the upper horizontal cut is carried out before the lower one, the cut-out unit falls onto the cutting equipment and jams or damages it.
- Arrange the splash guard in such a way that the splashes and sparks entrained by the workpiece are caught and guided away by the user.

Kickback

The word kickback is used to describe a sudden reaction that causes the ring saw to be kicked uncontrollable into the direction of the user or away from the user depending on the direction of rotation. Kickback is caused by blocking of the saw blade. This uncontrollable movement can cause damages on material and personal injury. A kickback is the result of an incorrect or improper use of the ring saw.

- Always hold the machine in a firm grip with both hands. Bring your body and arms in a position in which you can control the rebound forces. The operator can control the rebound and reaction forces by appropriate precautions.
- Never get your hand near the rotating saw blade. The saw blade can touch your hand during a kickback.
- When sawing, always stand parallel to the saw blade. Do never stand directly behind the blade as the saw will move in the plane of the blade in case of a kickback. Never use the kickback area of the ring saw for cutting.
- Never use the kickback area (upper quadrant). You can avoid a kickback when you cut with the lower quadrant of the saw blade.
- Work carefully in the area of sharp edges, corners, etc. Avoid the saw blade being kicked back from the work piece and being blocked. The rotating saw blade tends to be blocked at corners and sharp edges or if it is rebounded. This causes a loss of control or kickback.
- Avoid blocking of the blade by too high contact pressure. Avoid too deep cuts. Overstressing of the saw blade increases wear and the liability for blocking and therefore the possibility of a kickback or break of the abrasive body.
- If the saw blade is blocked or if you stop work shut off the machine and keep it still until the saw blade has stopped completely. Never try to remove the running saw blade out of the cut as long as the saw blade is still turning, otherwise this may cause a kickback. Detect and eliminate the reasons for blocking.
- Do not switch on the ring saw as long as it is located in the workpiece. Only begin to move the saw blade in the cut when the blade has reached full speed. Otherwise the blade can be blocked, rebounds from the workpiece or causes a kickback.

- Support slabs or big workpieces in order to reduce the risk of a kickback as a result of a jammed saw blade. Big work pieces can bend under their own weight. The work piece has to be supported at both sides of the saw blade both near the cut and at the edge.
- Be very careful with “bag cuts” in existing walls or other non-visible areas. The saw blade can cause a kickback when hitting a gas or water pipe, electric line or another object.

Water Connection

- Connect the frequency converter FU6U via the plug-in nipple to the water supply. The ball valve must at any time be on the side of the water supply. Now connect the FU6U with the saw via a water hose with a length of approx. 4,2 m (length of the cable).



Attention: Max water pressure is 40psi

- During operation, there must be at least 1L per minute of water flow.
- Run the saw at max flow for 10-20 seconds to clean blade.
- Water must be removed from the saw during cold seasons, or the case may crack from freezing.

FU6U Inverter

- The diamond ring saw TR40 is controlled by the water-cooled frequency converter FU6U. Operate the frequency converter only with a type B residual current circuit breaker.
- Please wait approximately 20 s before the machine is started after switching on the main switch.
- In the event of a fault or power failure, switch off the main switch and check the cause (fuse). Before switching on again, switch of the main switch for 60s.

LED Status Display

Status code	Meaning	Measure
green off	Frequency converter without voltage supply	- Switch on main switch - Use adapter cable type FU06543 - Check supply cable (cable interrupted) - Check mains voltage (fuse)
green flashing	Intermediate circuit is charged	- Wait
	Frequency converter waits for machine	- Connect machine - Check connectors of machine and converter for dirt and damages
	Service interval exceeded	- Bring converter to service station
green on	Frequency converter ready	- Converter can be used

Status code	Meaning	Measure
red permanent on	Low voltage	- Increase wire cross section (extension cord) - Check supply cable (cable interrupted) - Use a generator with more power
red 1x pulse	Over temperature motor	- Increase water flow (cooling of motor or converter is too low; water temperature is too high) - Check hose connection Never use waste water for cooling!
red 2x pulse	Over temperature frequency converter	
red 4x pulse	Overcurrent	- motor stops, motor has been used in the overload range - Check motor cable and plug connection for damages (short circuit)
red 5x pulse	Overload	- Reduce machine load, motor is operated in the overload range
red 6x pulse	Encoding error	- Check plug contacts of machine and frequency converter for dirt and damages - Update frequency converter (encoding unknown)
red 7x pulse	Over current power module	- Check motor cable and connectors for damages (short circuit)

Maintenance

General Maintenance

Attention: Always unplug the machine from power before starting maintenance and repair.

- Clean the machine once the sawing work has been completed. You can sprinkle the machine carefully with a soft jet of water. Never use a high-pressure cleaner or even a steam cleaner.
- In order to clean the rollers after completion of the work, the diamond ring saw must be operated at idle speed with maximum water flow for at least 10-20 sec
- After work, we recommend to clean and spray the rollers, drive wheel and saw blade with oil. This prevents corrosion and reduces the accumulation of sludge on the components.
- Damaged cords and plugs have to be repaired or exchanged exclusively in an authorized repair station.

Drive Wheel

- The drive wheel is subject to wear because of the design of the drive. The V-shaped edge of the inside diameter of the saw blade is pressed by the guide rollers into the V-shaped groove of the drive wheel.

- When the saw blade touches the base of the V-shaped groove of the drive wheel, the saw blade slides. In this case, the drive wheel must be replaced.

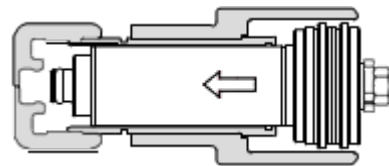
Replacement

- Loosen the hexagon head clockwise, using the combination spanner and face spanner (see scope of delivery). Remove the drive wheel.
- Insert the new drive wheel onto the driving spindle of the ring saw. Make sure that the inner contour of the recess on the drive wheel matches the outer contour on the spindle.
- Secure the drive wheel by screwing the hexagon head screw counterclockwise. Tighten the hexagon head screw firmly, using the combination spanner and face spanner.

Guide Rollers

Lubricating

- The guide sleeves on which the guide rollers are mounted must be lubricated regularly to allow easy movement inside and out. If the guide sleeves cannot move easily, the saw blade cannot be sufficiently pressed against the drive wheel.
- Remove saw blade and guide plate.
- Fully loosen the adjusting knobs. The guide sleeve is locked into the adjusting knob and follows this when loosening. By completely loosening the adjusting knobs, the sleeves are released from the knobs.
- Remove guide sleeve completely to the front.

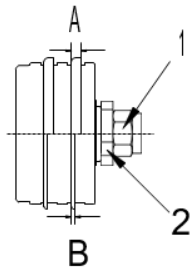


- Clean guide sleeves and seat in gearbox housing and provides water-resistant grease.
- Screw the adjusting knobs and insert guide sleeves into the seat in the gear housing. Push the guide sleeve into the adjusting knob by hand until a clear snapping action can be heard.

- The correct engagement can be checked by unscrewing the knob. If the guide sleeve is correctly locked, the guide sleeve is carried away by the adjusting knob.

Replacement

- The guide rollers must be replaced if the two embossments of the guide roller have a thickness of # 1.2 mm
 - New > 3mm
 - Worn # 1.2 mm
- Unscrew the self-locking nut (1) with 13 mm hexagon wrench and 19 mm hexagon 2 wrench (or socket wrench) to hold the hexagon nut (2). Remove the guide roller B
- Clean area around shaft seal and lubricate with water-resistant grease. Assemble a new guide roller.

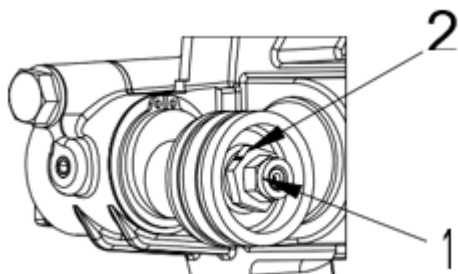


- Do not reuse the self-locking nut.

Support Rollers

Replacement

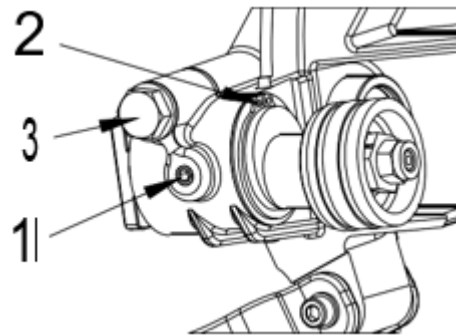
- The support rollers must be replaced when the roller surface is planar, that means, when the grooves in the roller surface are no longer present.
- Unscrew the self-locking nut (1) with a 13 mm hexagon wrench and a 19 mm ring wrench (cranked) to hold the hexagon nut (2). Remove support roller.



Lubricating

- The eccentric sleeves on which the support rollers are mounted must be lubricated if they can only be rotated difficultly.

- Remove saw blade and guide blade. 1
- Remove support roller.
- Unscrew the threaded pin (1) (glued in) and remove the retaining ring
- (2) with a retaining ring pliers. Remove the washer. Remove the hexagon head screw (3).

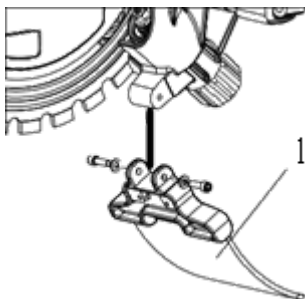


- Carefully clean the eccentric sleeve and the seat in the gearbox housing and provide water-resistant grease.
- Insert the eccentric sleeve into the gear housing so that the threaded pin engages in the groove in the eccentric sleeve. Care must be taken that the eccentric sleeve can only be placed against the saw blade in the clockwise direction (viewing direction on the support roller).
- Provide threaded pin with screw locking device (for example Loctite medium-tight).
- Screw in the threaded pin as far as it will go and then turn back a quarter of a turn so that the eccentric sleeve is free to rotate.
- Fit the washer and the retaining ring. Fit support roller.

Assembly

Mounting Stand

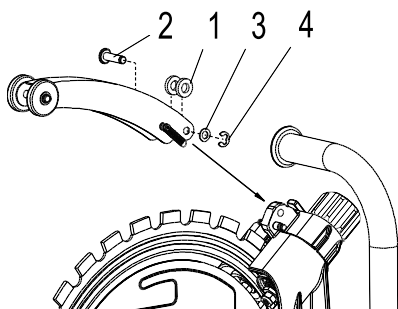
- Screw the base with the enclosed hexagon socket screws on the reception of the ring saw.



- Ensure that the splash guard is installed away from the saw blade.

Guard Bow

- Arrange the plastic washers (1) between the bore on the gearbox housing and the inside of the guard bow.
- Guide the bracket axle (2) through the hole and secure the bracket axle with the washer (3) and the locking washer (4).
- Insert the locking washer by hand into the corresponding groove in the bracket axis.

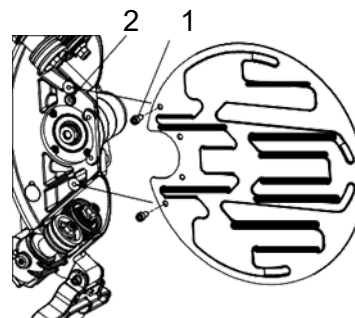


Drive Wheel

- Insert the drive wheel onto the driving spindle of the ring saw. Make sure that the inner contour of the recess on the drive wheel matches the outer contour on the spindle.
- Secure the drive wheel by screwing the hexagon head screw counterclockwise. Tighten the hexagon head screw firmly, using the combination spanner and face spanner (see scope of delivery).

Guide Plate

- Mount the guide blade into the corresponding holes on the gear box housing using the enclosed hexagon socket head screws (1).
- The guide blade serves to stabilize the saw blade during the sawing process and to distribute the water.
- Make sure that the rubber grommet (2) on the gearbox housing matches the opening for the water supply in the guide blade



- Ensure that the grommet on the transmission housing matched the bore for the water supply in the guide bar. If the guide bar is not properly mounted, the blade will not get enough water and will overheat.

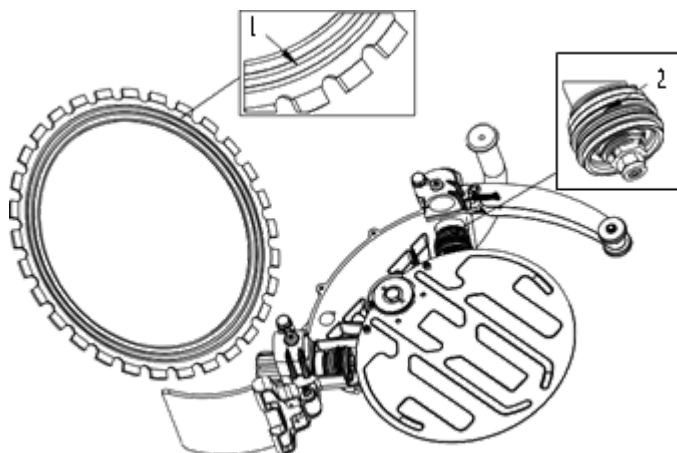
Saw Blade

- Check the saw blade for damage before installation. Damaged saw blades can lead to personal injury.
- If the saw blade is worn out (diamond segments worn out), the saw blade must be replaced. It is not permitted to provide the used saw blade with new diamond segments (new tipping). If the used saw blade is equipped with new segments, personal injury and property damage may result.
- Handle saw blades with care. If individual segments are missing, or if the blade is poorly tensioned, if it has a concentricity error or stroke, dangerous unbalances can occur which could damage the saw and endanger the operator. Our sales partners are specialists for these tools. Please have a thorough consultation before choosing a saw blade.



Hex Screw is left handed threads!

- The saw blade has two grooves (1) on one side. These grooves form the guide for the guide rollers. Mount the saw blade so that the V-shaped edge engages the drive wheel and the two embossments of the guide roller (2) fit into the grooves of the saw blade.
- If necessary, the position of the guide rollers can be adjusted by turning the adjusting knobs.
- Turn the T-knob so that the support rollers [get light contact with the saw blade. The support rollers must be adjusted in such a way that they can be stopped with the thumb when the saw blade is turned by hand. The support rollers should only run with the saw blade from time to time.



- Firmly tighten the adjusting knobs to the stop on the housing. A seal on the housing prevents water from penetrating into the guide rollers when the adjusting knob is tightened.
- Tighten hexagon head screw [14]. Turn the saw blade again and check whether the support rollers can be stopped by hand. If this is not the case, the support rollers must be adjusted again.



If the support rollers are applied too strongly to the saw blade, damage to the saw blade and the ring saw can occur.

- Check whether the saw blade can be easily turned by hand and that the saw blade is guided correct in the guide rollers.

Reference

Appendix A

Serial Numbers

Record the TR40's serial number below for future reference and customer service purposes.

Serial Number	
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EQUIPMENT AND PARTS WARRANTY

Diamond Products warrants all equipment manufactured by it against defects in workmanship or materials for a period of one (1) year from the date of shipment to Customer.

The responsibility of Diamond Products under this Warranty is limited to replacement or repair of defective parts at Diamond Products' Elyria, Ohio factory, or at a point designated by it, of such parts as shall appear to us upon inspection at such parts, to have been defective in material or workmanship, with expense for transportation and labor borne by Customer.

In no event shall Diamond Products be liable for consequential or incidental damages arising out of the failure of any Product to operate properly.

Integral units such as engines, electric motors, batteries, transmissions, etc., are excluded from this Warranty and are subject to the prime manufacturer's warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED.



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