OPERATION AND PARTS MANUAL

MULTIQUIP®

MODEL TP24
TILE SAW
(ELECTRIC MOTOR)

Revision #4 (09/12/19)

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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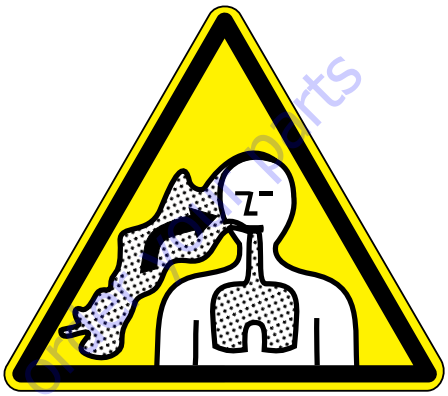
⚠ WARNING

SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

⚠ WARNING



RESPIRATORY HAZARDS

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.

TP24 Tile Saw

NOTICE

Specifications and part numbers are subject to change without notice.

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: **DANGER, WARNING, CAUTION** or **NOTICE.**

SAFETY SYMBOLS

DANGER

Indicates a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY.**

WARNING

Indicates a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY.**

CAUTION

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE INJURY.**

NOTICE

Addresses practices not related to personal injury.

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety messages.

Symbol	Safety Hazard
	Rotating parts hazards
	Cutting and crushing hazards
	Electric shock hazards

GENERAL SAFETY

⚠ WARNING

- Adherence to the OSHA 2017 Ruling governing Occupational Exposure to Respirable Crystalline Silica, requires that all sawing operations **MUST BE** conducted with an integrated water delivery system that feeds water to the blade.

⚠ CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.

- Avoid wearing jewelry or loose fitting clothes that may snag on the controls or moving parts as this can cause serious injury.
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication.

- **NEVER** operate this equipment under the influence of drugs or alcohol.

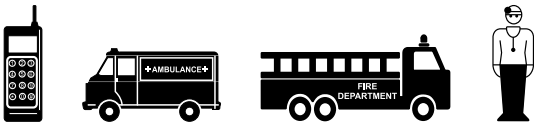
- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.
- No one other than the operator is to be in the working area when the equipment is in operation.
- **ALWAYS** check the equipment for loosened threads or bolts before starting.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.

NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **ALWAYS** know the location of the nearest **fire extinguisher.**

- **ALWAYS** know the location of the nearest **first aid kit.**

- **ALWAYS** know the location of the nearest phone or **keep a phone on the job site.** Also, know the phone numbers of the nearest **ambulance, doctor** and **fire department.** This information will be invaluable in the case of an emergency.



SAW SAFETY

DANGER

- **NEVER** operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe **bodily harm or even death.**

WARNING

- Accidental starting can cause severe injury or death. **ALWAYS** place the ON/OFF switch in the OFF position.

- Keep hands away from moving parts at all times.

- **NEVER** disconnect any **emergency or safety devices.** These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.

CAUTION

- **ALWAYS** ensure saw is **securely** placed on appropriate blocks or jackstands when maintenance requires elevation of the saw.
- If the machine malfunctions, stop the saw immediately and secure it. Fix the problem as soon as possible.

NOTICE

- **ALWAYS** keep the machine in proper running condition.
- Fix damage to machine and replace any broken parts immediately.
- Make sure there is no buildup of grease, oil or debris on the machine.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

BLADE SAFETY

WARNING

- Rotating blade can cut and crush. **ALWAYS** keep hands and feet clear while operating the saw.

CAUTION

- **NEVER** operate the saw without blade guards and covers in place. Exposure of the diamond blade must not exceed 180 degrees.

- Verify the motor start switch is set to the OFF position before installing a blade.
- **ALWAYS** inspect blade before each use. The blade should exhibit no cracks, dings, or flaws in the steel centered core and/or rim. Center (arbor) hole must be undamaged and true.

NOTICE

- Use proper blades and follow blade manufacturer's recommendations. Match the blade RPM (blade shaft RPM) to the recommended blade surface feet per minute (SFPM).
- Ensure the blade-mounting bolt is tightened adequately
- **ALWAYS** examine blade flanges for damage and excessive wear.
- Ensure the blade is marked with an operating speed greater than the spindle speed of the saw.
- Only cut the material that is specified for the diamond blade. Read the specification of the diamond blade to ensure the proper tool has been matched to the material being cut.
- Ensure that water is used during sawing operations and that a sufficient flow of water is applied to both sides of the blade.
- **DO NOT** drop the diamond blade on ground or surface.
- Ensure that the blade is mounted for proper operating direction.
- Adhere to the blade manufacturer's recommendations on handling, storage and safe usage of blades.

ELECTRIC MOTOR SAFETY

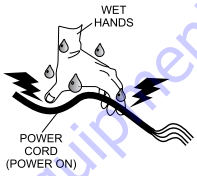
NOTICE

- Operate electric motor only at the specified voltage indicated on the nameplate.
- **DO NOT** spray water onto electric motor.
- **ALWAYS** disconnect AC power plug from power source before moving saw, changing blade, or performing maintenance.
- **ALWAYS** make sure the ON/OFF switch on the electric motor is in the OFF position when not in use and before inserting the saw's power plug into an AC receptacle.

Power Cord/Cable Safety

⚠ DANGER

- **NEVER** let power cords or cables **lay in water.**
- **NEVER** use **damaged** or **worn** cables or cords when connecting equipment to generator. Inspect for cuts in the insulation.
- **NEVER** grab or touch a live power cord or cable with wet hands. The possibility exists of **electrical shock, electrocution or death.**



- Make sure power cables are securely connected. Incorrect connections may cause electrical shock and damage to the saw.

⚠ CAUTION

- Ensure that cables and cords will not be tripped over or trapped underneath the saw.
- Never use the cable to pull out the plug from the power source.

NOTICE

- **ALWAYS** make certain that proper power or extension cord has been selected for the job.
- Protect the cable from heat, oil, and sharp edges.

LIFTING SAFETY

⚠ CAUTION

- **NEVER** allow any person or animal to stand underneath the equipment while lifting.
- Some saws are very heavy and awkward to move around. Use proper heavy lifting procedures.
- **DO NOT** lift machine to unnecessary heights.
- **NEVER** lift the equipment while the motor is running.

TRANSPORTING SAFETY

NOTICE

- **ALWAYS** shutdown motor before transporting.
- **ALWAYS** tie down equipment during transport by securing the equipment with rope.
- Ensure that the diamond blade does not come into contact with the ground or surface during transportation.
- **NEVER** transport the saw to or from the job site with the blade mounted.

ENVIRONMENTAL SAFETY

NOTICE

- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.

- **DO NOT** use food or plastic containers to dispose of hazardous waste.
- **DO NOT** pour waste, oil or fuel directly onto the ground, down a drain or into any water source.

Table 1. Saw Specifications	
Model	TP24
Blade Capacity	10 in. (254 mm)
Blade RPM	3200
Arbor Size	5/8 in. (15.875 mm)
Blade Guard	Cast Aluminum
Blade Shaft Bearings	Water-Cooled
Cutting Head	Cast Aluminum, Adjustable
Conveyor Cart	Aluminum with roller bearings, injected molded rubber pad, transportation lock
Drive System	V-belt
Max. Depth of Cut	3-1/2 in. (90 mm)
Straight Cut	24 in. (610 mm)
Diagonal Cut	16 in. (406 mm) x 16 in. (406 mm) Size Tile
Water Tray	ABS
Water Pump	115V, 60 Hz — 100 GPH
Weight	65 lbs. (29 kg)

Table 2. Electric Motor Specifications	
Horsepower	2
Volts	115
Amps	15
Motor RPM	3000 RPM
Cycle	60
Phase	1
Class	E

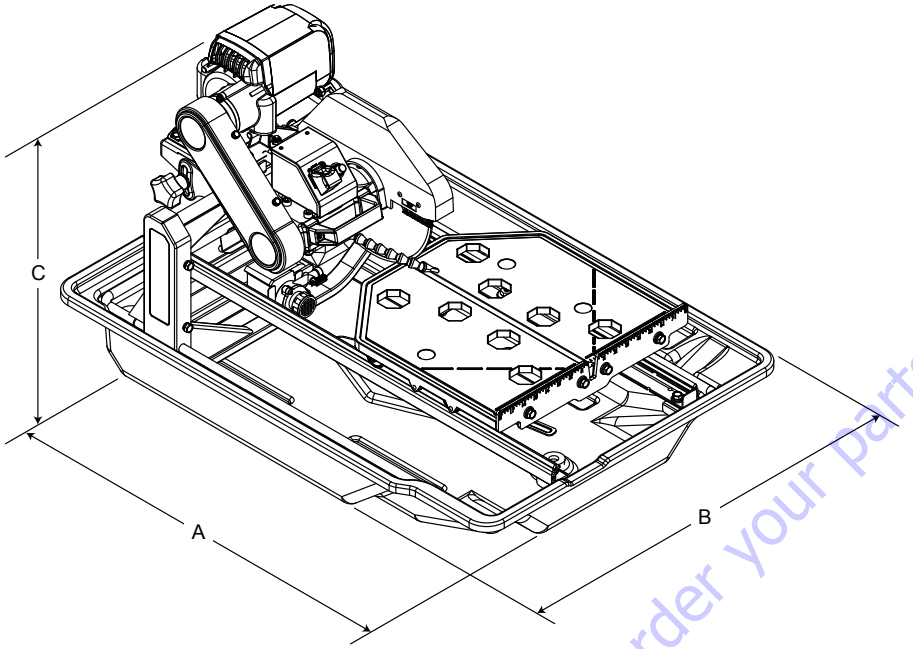


Figure 1. Dimensions

Table 3. Dimension	
Reference Letter	**Dimensions**
A	36.5 in. (927 mm)
B	26 in. (660 mm)
C	20.4 in. (518 mm)

The TP24 is a powerful, robust saw designed to professionally handle large-sized cuts on ceramics, stone, and masonry materials. A sturdy steel precision frame and easily removable ABS water tray provides overall durability and longevity.

This saw is equipped with a trusted high-torque 2 HP electric motor that operates on standard 115 V power and is designed with thermal overload and fan air cover protection.

An innovative water-cooled bearing assembly works in conjunction with the water pump to keep key bearing components running cooler.

The TP24 saw comes complete with premium blade and high flow water pump.

SAWING APPLICATIONS

The TP24 Tile Saw comes complete with a water pump and full water delivery system. The water pump connects directly to a receptacle located on the ON/OFF switch enclosure. Ensure that an ample amount of clean water is distributed to the diamond tool.

This saw has been designed to incorporate the use of diamond blades as the cutting tool. The optimum performance of this saw is best evidenced by using 10-inch (250 mm) diamond blades that match the material being cut. Ask your dealer, or call Multiquip regarding the proper diamond tool selection for your application.

ACCESSORIES/REPLACEMENT PARTS

If desired, the TP24 tile saw can be equipped with a support stand with wheels. This stand is ideal when the saw needs to be placed on a secure reliable platform.

FEATURES

- **Rugged Portable Frame Assembly** — Sturdy steel frame design with handles for easy transport.
- **Electric Induction Motor** — UL/CSA approved 115 V 60 Hz, 2 HP electric motor with thermal overload and fan cover protection.
- **Water Tray** — Sturdy ABS water tray that is easily removable for cleaning.
- **Cutting Table** — Rugged cast aluminum table with heavy-duty injected molded rubber padding and extension table. Industrial ball bearing rollers ensure smooth, precise cart movement.
- **Water Pump** — Powerful, maintenance-free, submersible pump provides high volume water flow.
- **Water-Cooled Blade Shaft Bearing Assembly** — High flow water circulating system designed to keep crucial bearing components running cooler.
- **Blade Guard** — Hardy cast guard with blade brushes designed to evenly distribute water to the blade, and to easily position for blade changes.
- **Diamond Blade** — 10-inch (254 mm) premium tile blade included.

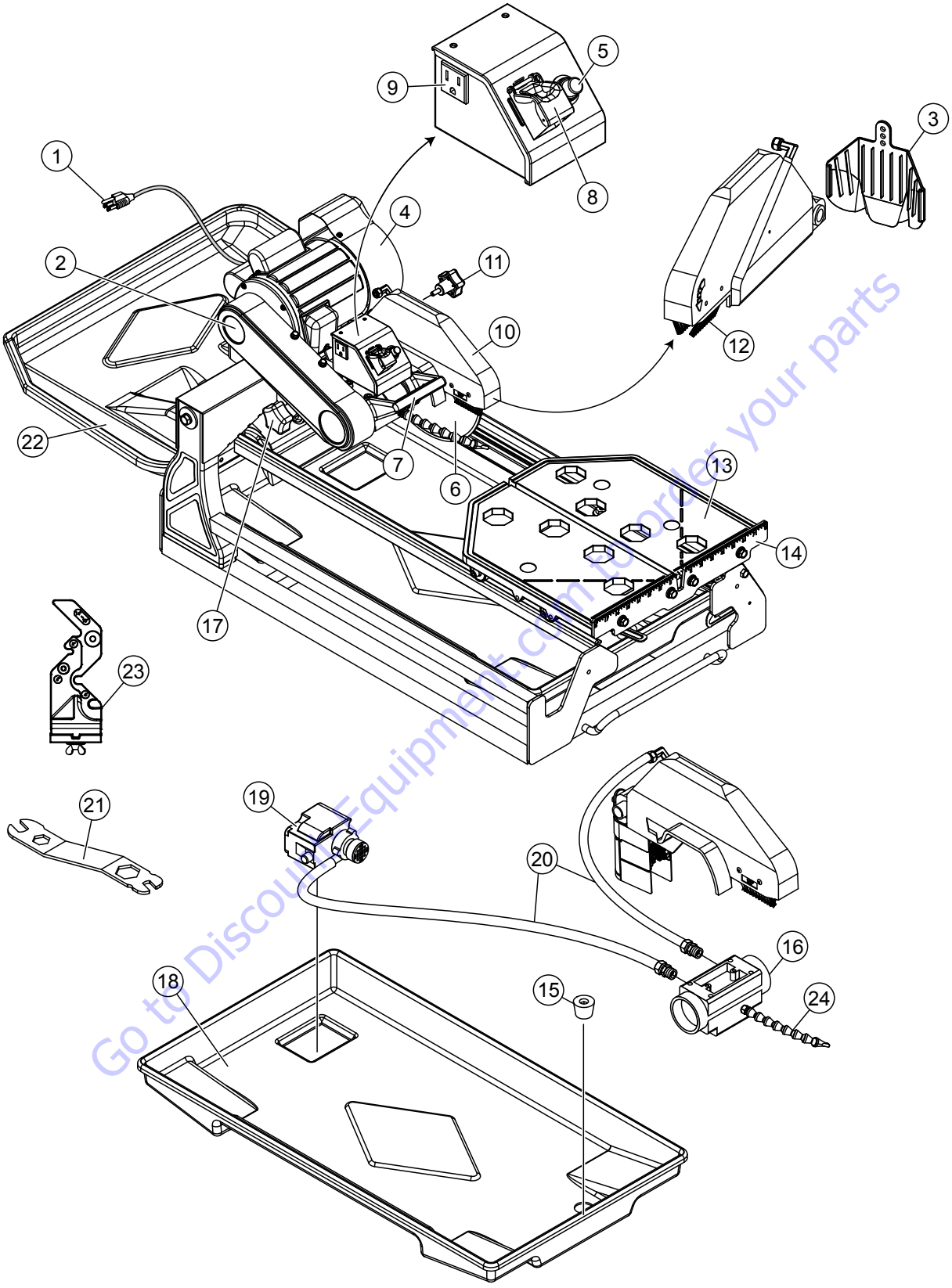


Figure 2. Saw Components

Figure 2 shows the location of the basic components of the TP24 saw. Listed below is a brief explanation of each component.

1. **AC Power Cord** — Plug this cord into a 125 VAC receptacle when starting of the electric motor is required.
2. **V-belt Cover** — Remove this cover to access the drive V-belt. **NEVER** operate the saw with the V-belt cover removed.
3. **Rubber Splash Guard** — Keeps water from splashing from the blade.
4. **Electric Motor** — This unit uses a 115V, 60 Hz, 2 HP electric motor.
5. **Overcurrent Breaker Button** — When a thermal overload condition exists, press this button to reset the breaker. Allow time for the electric motor to cool down before reseting the breaker.
6. **Cutting Blade** — This unit uses a 10-inch (254 mm) premium diamond blade. Always use recommended Multiquip cutting blades. When mounting of the cutting blade is required, remove the spindle bolt and outside blade flange. Align cutting blade with inside flange arbor and reassemble spindle and outside blade flange.
7. **Cutting Head Handle** — Grab hold of this handle to control the movement of the cutting head.
8. **Power ON/OFF Switch** — To turn on the saw place in the ON position. Place in the OFF position to shut down the saw.
9. **Water Pump Power Receptacle** — Plug the water pump power cord into this AC receptacle.
10. **Blade Guard** — Protects the user from the cutting blade. **NEVER** operate the saw with the blade guard removed.
11. **Blade Guard Adjustment Knob** — Turn knob clockwise to loosen and remove blade guard. Turn counterclockwise to tighten.
12. **Blade Guard Brushes** — Prevents foreign matter and debris from accumulating on the saw blade. Replace brushes immediately when they become worn or damaged.
13. **Cutting Table** — Place material to be cut on this rubber padded table. For ease of cutting, this table has been placed on rails so that it can easily slide back and forth.
14. **Ruler Backstop** — When cutting, place material against backstop. Use measurement rail (ruler) to determine where material is to be cut.
15. **Stopper** — Place stopper in water tray when filling with water.
16. **Bearing Housing** — Houses permanently lubricated ball bearings to allow motor shaft to rotate smoothly.
17. **Cutting Head Adjustment Knob** — Turn knob clockwise to loosen and position cutting head to desired height. Turn counterclockwise to tighten.
18. **Water Tray** — Keep the water tray filled with clean fresh water. Ensure that the submersible pump is totally immersed in water at all times for proper operations.
19. **Electric Water Pump** — The electric water pump for this saw requires 115 VAC. Plug power cord of electric water pump into AC receptacle located on conduit box. **NEVER** run pump dry. Pump must be immersed in water.
20. **Water Lines** — Replace the clear vinyl tubing water lines when they become brittle, worn or clogged. Water kits are available through your Multiquip dealer.
21. **Maintenance Wrench** — Use this multi-purpose wrench when performing maintenance or repairs on the saw.
22. **Rear Drip Tray** — Rear drip tray increases the surface area for collecting water and slurry to prevent spillage.
23. **MasterGuide Template Base** — Mounts to ruler backstop to ensures precision while making cuts.
24. **Water LInk Hose** — Recycles water from the bearing housing back into the water tray.

ELECTRIC MOTOR COMPONENTS

Figure 3 shows the location of the components of the electric motor.

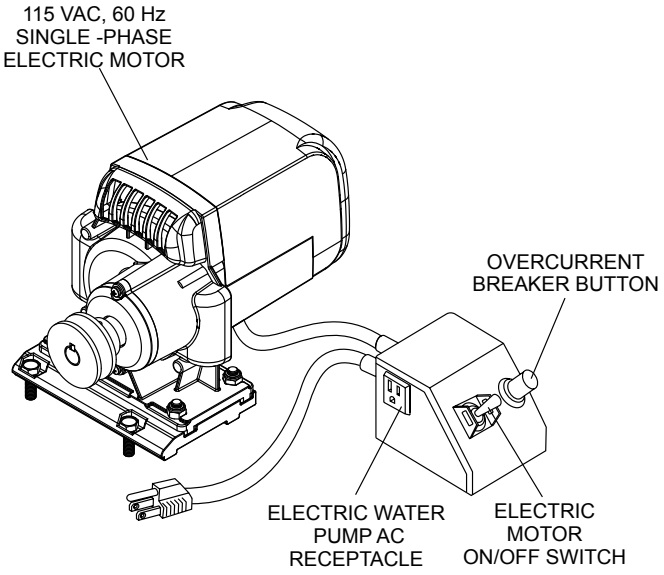


Figure 3. Electric Motor Components

SAW SET-UP

WARNING

Whenever cleaning, adjusting or lubricating any part of the saw, make certain to place the power ON/OFF switch in the **OFF** position and disconnect the plug from the power source.

1. Open the shipping container carefully, lift the saw by its carrying handles and place it on a suitable table or platform. Make sure the table or platform can support the weight of the saw.
2. Make sure that the following items are found in the container.

- Saw
- Water Tray
- Drain Plug
- Universal Wrench
- Saw Blade
- Water Pump
- Rear Drip Tray
- Owner's Manual
- Rip Guide

3. Slide water pump onto U-shaped bracket located at the bottom of the frame. See Figure 6.
4. Slide cutting head onto the post. Secure cutting head to the shaft using provided flat washer, lock washer and nut. Attach cutting depth control knob and washer to the cutting head through the slot located underneath the belt guard. See Figure 4.
5. Mount blade guard onto shaft protruding from the side of the cutting head. Secure the blade guard in place using the provided serrated washer and blade guard knob.
6. Attach rear drip tray to the water tray.

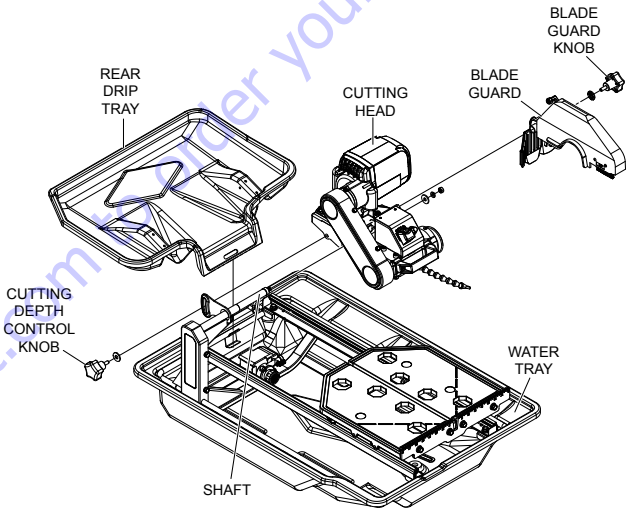


Figure 4. Saw Assembly

7. If using the optional support stand, assemble as described in the Support Stand Assembly section. Make sure that the saw is secured on the support stand as instructed.

SUPPORT STAND ASSEMBLY (OPTIONAL)

Refer to Figure 5 for location of components.

1. Remove the folding stand from its box.
2. While holding the stand upright, spread both sets of legs apart and swing the workbench over and on top of the legs.
3. Seat the saw securely onto the stand.

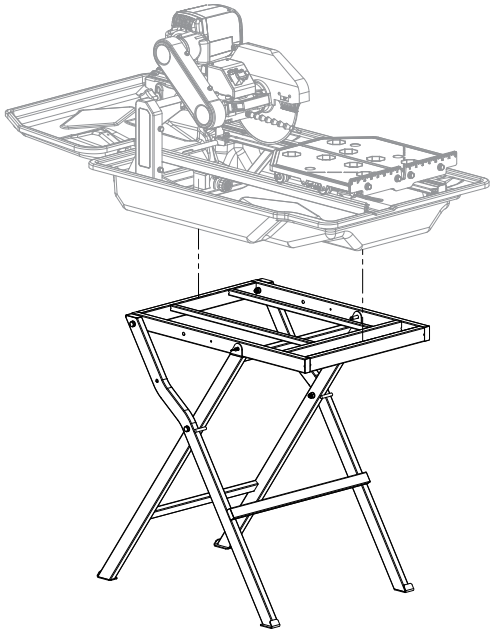


Figure 5. Support Stand Assembly

CONNECTING THE WATER PUMP

Refer to Figure 6.

4. Attach the water hose coming from the blade guard and bearing housing to the water pump.
5. Install drain plug in water tray.
6. Fill the water tray with clean fresh water. The water pump intake must always be fully covered by water. Also, keep the pump intake free of sludge, debris and other materials that may accumulate in the tray.
7. Make certain that the water hose will not come in contact with the blade or interfere with any moving parts.

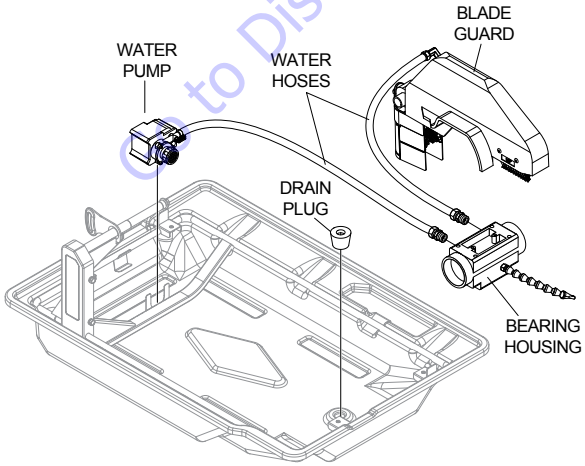


Figure 6. Connecting the Water Pump

8. Insert the water pump power plug into the outlet cable receptacle from the electric motor conduit box as shown in Figure 7.

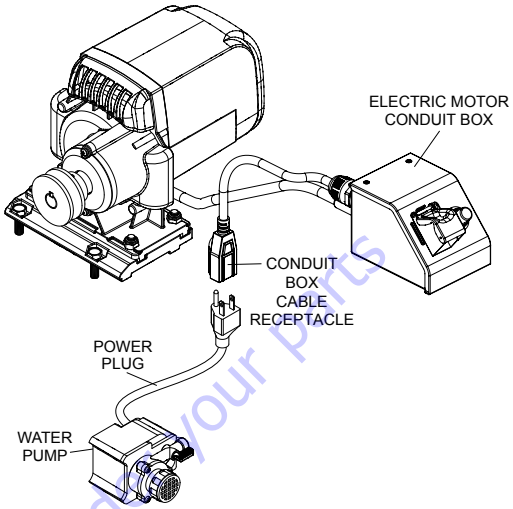


Figure 7. Water Pump Power Connection

⚠ WARNING

Adherence to the OSHA 2017 Ruling governing Occupational Exposure to Respirable Crystalline Silica, requires that all sawing operations **MUST BE** conducted with an integrated water delivery system that feeds water to the blade.

⚠ WARNING

Disconnect the pump before attempting to handle the pump. **NEVER** operate pump without water in the tray.

BLADES

WARNING

Failure to thoroughly inspect the blade for operational safety could result in damage to the blades or the saw and may cause serious injury to the user or others in the operating area. Inspect the blade flanges and shaft for damage before installing the blade.

Blade Components

Diamond blades are recommended for your saw. Ask your Multiquip dealer about your specific cutting application. Figure 8 highlights the components of a diamond blade.

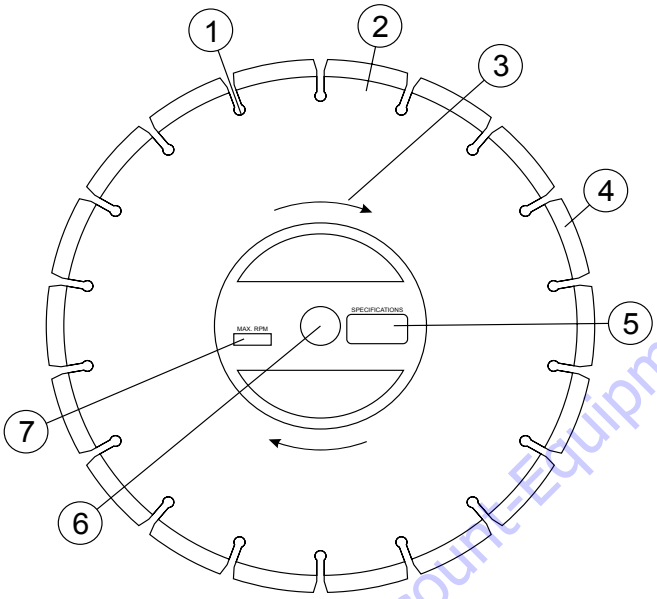


Figure 8. Diamond Blade

1. **Stress Relief Holes (Gullets)** — Check the steel core for cracks that may have propagated from the slots and/or gullets. Cracks indicate extreme fatigue failure and if sawing continues, catastrophic failure will occur.
2. **Edge of the Steel Core** — Check the diameter edge for discoloration (blue oxidation) indicating an overheating condition caused by insufficient cooling water/air. Overheating of blades may lead to loss of core tension and/or increase the possibility for blade failure. Check to make sure the steel core's width is uniform about the rim of the blade, and not succumbing to an "under cutting" condition brought about by highly abrasive material or improper under cutting core protection.
3. **Directional Arrow** — Check to ensure that the blade is oriented properly on the spindle for sawing. Reference the directional arrow on the blade and place it so the direction of rotation "downcuts" with the turn of the shaft.
4. **Diamond Segment or Rim** — Ensure that there are no cracks, dings, or missing portions of the diamond segment/rim. **DO NOT use a blade that is missing a segment or a portion of the rim**. Damaged and/or missing segments/rims may cause damage to your saw and injury to the user or others in the operating area.
5. **Specifications** — Ensure that the blade specifications, size, and diameter properly match up to the sawing operation. Wet blades must have water to act as a coolant. Utilizing a diamond blade not matched properly to the task may result in poor performance and/or blade damage.
6. **Arbor Hole** — It is essential that the arbor hole diameter properly matches the shaft arbor, and that it is free from distortions. Correct blade flanges (collars) must be used. The inside face of the flanges must be clean and free of debris. An out of round arbor condition will cause damage to the blade and the saw.
7. **MAX RPM** — This RPM reference is the maximum safe operating speed for the blade selected. **NEVER** exceed the max RPM on the diamond blade. Exceeding the MAX RPM is dangerous, and may cause poor performance and may damage the blade. All blades used must be designed for the maximum spindle RPM.

Cutting Depth

The recommended cutting depth is 1/4" (6 mm) below the cutting table surface. To adjust the cutting depth, loosen the cutting head adjustment knob so that the blade is 1/4" below the top of the cutting table's surface. See Table 4 to determine cutting depth by blade diameter.

WARNING

Setting the blade too low may damage the cutting table and if set too high, the blade may grab the material being cut, causing damage and possibly injury.

Table 4. Blade Diameter vs. Cutting Depth

Blade Diameter	Cutting Depth
7 in. (178 mm)	1-3/4 in. (44.5 mm)
10 in. (254 mm)	3-1/2" (90 mm)

Blade Installation

Refer to Figure 9 and the following instructions for installing the blade.

1. Loosen blade guard adjustment knob located at the rear of the blade guard. Carefully raise the cutting head to its highest position and secure it into place by tightening the blade guard adjustment knob.
2. Remove the blade shaft nut and outer flange. If a blade has been mounted, hold the blade with one hand and use the other hand to loosen the nut with the universal wrench. Remove existing blade.
3. Mount new blade, but make certain the arrow on the blade coincides with the rotation direction of the shaft. Ensure the capacity of the blade guard matches the diameter of your cutting blade.
4. Attach outer flange and blade shaft nut. Hold the blade with one hand and use the other hand to tighten the nut with the universal wrench. Make certain the flanges are pressed flush against the blade and that the nut is firmly tighthened, but **DO NOT** over tighten.
5. Loosen blade guard adjustment knob, lower the blade guard, and retighten the knob.
6. Slightly loosen the cutting head adjustment knob, lower the cutting head so that the blade is 1/4" (6 mm) below the surface of the cutting table. Tighten the adjustment knob firmly to hold the cutting head in place.

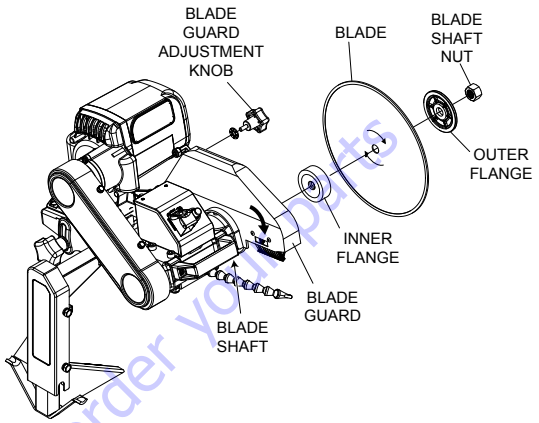


Figure 9. Blade Installation

See Table 5 for proper blade use guidelines.

Table 5. Proper Blade Use

Dos	Don'ts
Inspect blades daily for cracks or uneven wear.	Do not operate the saw without safety guards in place.
Always use appropriate blades for material being cut.	Do not operate the saw with blades larger than 10 in. (254 mm)
Inspect arbor shaft for uneven wear before mounting blade.	Do not exceed manufacturer's recommended maximum RPM.
Always use blades with the correct arbor shaft size.	Do not force blade into material. Let blade cut at its own speed.
Ensure that blade is mounted in the correct direction.	Do not make long cuts with dry blades. Allow them to air cool.
Use proper safety equipment when operating the saw.	Do not use the edge or side of blade to cut or grind.
Always have a continuous flow of water on both sides of blade.	Do not attempt to cut a radius or curve.
Secure the blade to the arbor with a wrench.	Do not cut too deep or too fast into the material.
Inspect segment blades for segment cracking or loss.	Do not cut any material not recommended by blade manufacturer.
Do not use damaged blades.	

CONNECTING THE POWER

1. Place the power ON/OFF switch (Figure 10) in the OFF position (down).
2. Connect an extension cord of adequate current carrying capacity to the power plug on the electric motor.
3. **MAKE CERTAIN** that the correct size extension cord is used. Undersized wires will burn out motors. Use Table 6 to determine the correct extension cord size.

Table 6. Extension Cord Sizes

Motor	Voltage VAC	25 ft (7.6 m) Long	50 ft (15. 2 m) Long	75 ft (22.9 m) Long
2 HP	115	No. 12	No. 10	No. 8

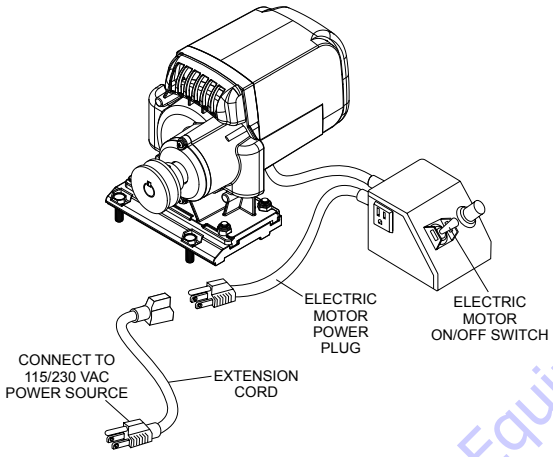
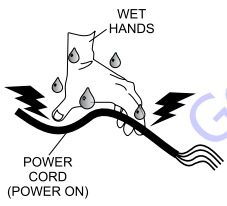


Figure 10. Extension Cord Connection

DANGER



NEVER grab or touch a live power cord with wet hands, the possibility exists of electrical shock, electrocution, and even death!

NEVER use a damaged or worn extension cable when connecting to a power source. Defective cables may cause damage to the saw's electric motor or electrical shock.

ALWAYS use a grounded (3-wire) extension cord and **MAKE CERTAIN** that the motor is connected to a properly grounded electric circuit. If possible use a ground fault circuit interrupter to protect the operator from possible electric shock.

4. Plug the free end of the extension cord into an AC power receptacle. Whenever possible use a GFCI receptacle (Figure 11) to reduce the risk of electrical shock.

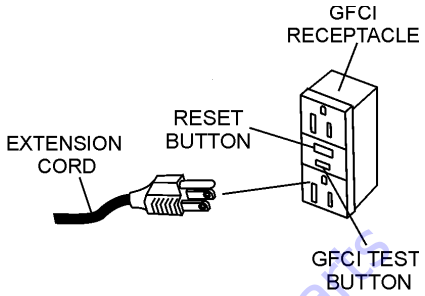


Figure 11. GFCI Receptacle

SAWING GUIDES

Using the Cutting Table

- The ruler guide has inches marked along the top to allow convenient measurements and to promote precision cuts. See Figure 12.
- The table spans an area of 16" x 16" (406 x 406 mm). With the optional side extension table equipped, the cast aluminum cutting table spans an area of 25" x 16" (635 x 406 mm), which allows it to provide greater support for handling larger materials.
- Cutting table is covered by a rubber mat that provides a firm, durable work surface.
- A rip guide should be used with the cutting table to ensure precision while making cuts.

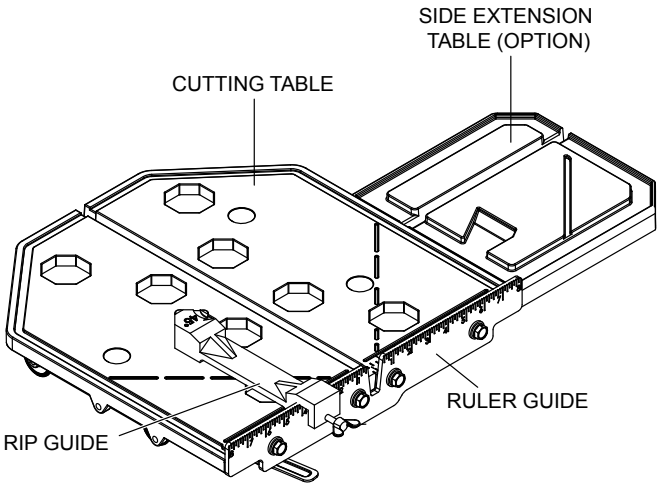


Figure 12. Cutting Table

Using the Rip Guide

1. Set the rip guide at the desired location on the ruler guide and tighten the threaded knob. Make sure that the rip guide is firmly tightened to avoid slippage. The rip guide can be used for 45° and 90° cuts.
2. After the rip guide is positioned, for the desired cut, place material flat against the rip guide and ruler guide.
3. Now you are ready to make your cut.

Performing Diagonal Cuts

1. Remove threaded knob from the end of the rip guide with the horizontal groove and insert it into the other end with the diagonal groove.
2. Set the rip guide onto the ruler guide, such that the top edge of the rip guide is aligned with the diagonal groove to the left of the vertical channel in the cutting table. Tighten threaded knob once in place.
3. Place one corner of the material being cut in the vertical slot of the ruler guide and rest the adjoining edge flat against the rip guide.
4. Now you are ready to make your cut.

Performing Miter Cuts

To make miter cuts, an optional miter block must be purchased. See Figure 13.

1. Place the lip of the miter block on the ruler guide with the threaded knob facing you.
2. Position the miter block such that a tile laying flat against the block may rest its left-most edge within the vertical channel of the cutting table. Tighten the threaded knob to secure the miter block in place.
3. Place material onto miter block and you are ready to cut.

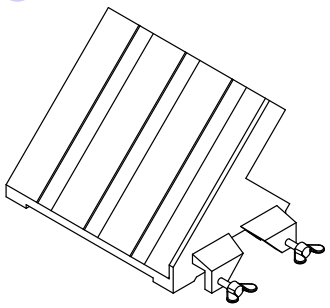


Figure 13. Optional Miter Block

START-UP PROCEDURE

NOTICE

Read and fully understand this manual before starting or attempting to operate the saw.

Before starting the saw's electric motor make sure that the Safety, General Information, and Set-Up sections have been completed and understood. **DO NOT** proceed until the above mentioned sections have been completed.

WARNING

Adherence to the OSHA 2017 Ruling governing Occupational Exposure to Respirable Crystalline Silica, requires that all sawing operations **MUST BE** conducted with an integrated water delivery system that feeds water to the blade.

WARNING

NEVER place hands or feet inside the belt guard or blade guard while the motor is running. **ALWAYS** shut the motor down before performing any kind of maintenance

WARNING

ALWAYS wear approved eye and hearing protection before operating the saw.

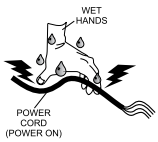
WARNING

NEVER place hands and fingers near the cutting blade. The possibility exists of severe bodily harm if hands and fingers come in contact with rotating saw blade.

WARNING

ALWAYS ensure that the cutting blade has been mounted correctly.

DANGER



NEVER touch a live power cord with wet hands. The possibility exists of electrical shock, electrocution which could cause severe bodily harm, even death.

WARNING

NEVER lift the blade guard while the blade is rotating. The possibility exists of severe bodily harm if fingers or hands come in contact with the rotating saw blade. Wait for the blade to stop rotating before lifting the blade guard.

1. Place the material to be cut (Figure 14) on the cutting table against the backstop.

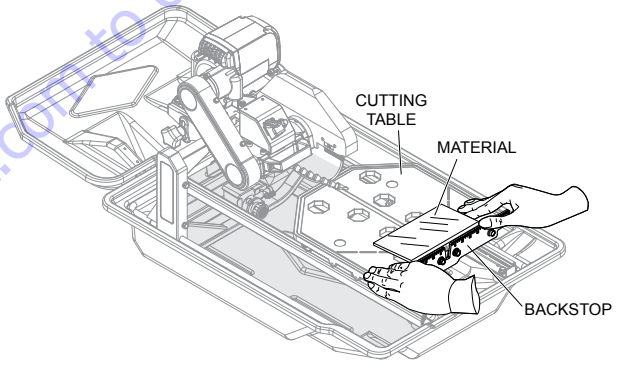


Figure 14. Material Placement

DANGER

ALWAYS be alert to the fact that there is a rotating blade on the saw and be extremely aware of your body position — especially your hands in relationship to the rotating blade. The possibility exists of severe bodily harm or even death if your body comes in contact with the rotating saw blade.

2. Turn the power ON/OFF switch (Figure 15) to the ON position with the blade away from the material to be cut, the cutting blade should begin to rotate. Before cutting remember to follow all safety rules referenced in this manual.

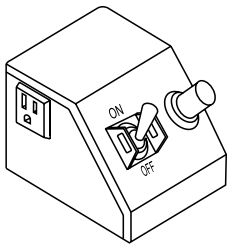


Figure 15. Power ON/OFF Switch (ON)

3. Push the cutting table with the material, slowly and evenly until the cut is complete. Move the cutting table back and remove the cut pieces.

4. Avoid overloading the motor when cutting. However, the electric motor is protected with a manual-reset thermal overload switch that will turn the saw off if the motor is overheated. In the event that the switch is tripped, turn the "ON/OFF" switch to the "OFF" position and allow the motor to cool before attempting to restart.

SHUT DOWN PROCEDURE

1. Place the power ON/OFF switch (Figure 16) in the OFF position (down).

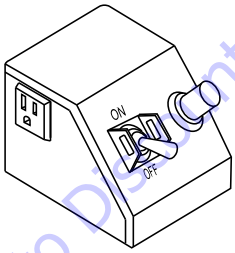


Figure 16. Power ON/OFF Switch (OFF)

2. Wait for the cutting blade to stop rotating.

3. Disconnect the saw's AC power cord from the power source. **NEVER** leave the saw connected to a power source when unattended. This will prevent accidental starting.

4. Using a soft cloth, clean any excess debris or residue that may have accumulated on the saw.

5. Store saw in a clean dry location where it will be out of the reach of children.

A good preventive maintenance program of regular inspection and care will increase life and improve the performance of the saw and cutting blades.

⚠ WARNING

Whenever cleaning, adjusting, or lubricating any part of the saw, **MAKE CERTAIN** to do the following:

- Place power ON/OFF switch to the **OFF** position.
- Disconnect power cord from AC source.
- **NEVER** attempt to check the V-belt with the engine running. Severe bodily injury can occur.

BASIC MAINTENANCE

1. Tighten loose nuts or screws and replace any cracked or broken parts.
2. Clean the machine frequently. **DO NOT** use aggressive cleaners (i.e. containing solvents). **DO NOT** use high high-pressure water jets, aggressive detergents or solutions and liquids with a temperature exceeding 86°. Use a fluff-free cloth only. Use a cloth which may be lightly moistened only for removing dust and dirt. Hard packed dirt can be removed with a soft brush.

   DO NOT let any water/cleaning liquid/vapor penetrate into the electric motor, connectors/plugs, switches, etc. Cover all apertures, holes in the housing, connectors or plugs, etc, or seal them with adhesive tape.

   Use a soft, low-pressure water jet and a brush to rinse dirt and incrustations away. Be particularly careful when near hazardous parts of the machine (e.g. switch, motor). Clean the motor and switches only by wiping with a moist cloth.
3. Remove the belt guard and clean the pulleys. The belts and pulleys will wear rapidly if excessive dust builds up.
4. Clean the sludge that accumulates on the bottom of the water tray at least once a day and refill with clean water. It may be necessary to clean the tray out twice a day in heavy cutting. The sludge is abrasive and will shorten the life of the water pump and blades.
5. After each day's use, run clean water through the water pump and water hoses. This extends pump and blade life.
6. After cleaning, remove all covers and adhesive tape. All screws or nuts which may have been loosened must be retightened.
7. Check the spindle bolt for tightness periodically.
8. Keep the drive belt tight. It is very important to replace worn belts as soon as possible. To adjust belt tension, loosen the four (4) motor mounting bolts and remove the belt guard. Tighten the adjusting nut on the back of the motor plate to increase the tension. Proper belt tension is 4-5 lbs. of force with approximately 3/16" of belt deflection measured at a point midway between the pulleys. Tighten the motor mounting bolts and reattach the belt guard.
9. **MAKE CERTAIN** that the cutting head is aligned properly. Misalignment can adversely affect blade life.
10. The blade flanges must have a diameter of 4". Undersized flanges will reduce blade life and cause breakage. Therefore, they should be replaced at once.
11. Cutting blades must fit the arbor snugly. This is very important with diamond blades as pounding will occur and serious blade damage can result. If the arbor shoulder of the inner blade flange is grooved from blade slippage, the flange must be replaced.
12. Inspect the cutting table periodically. Replace worn parts.
13. **DO NOT** "rinse" the bearings of the drive elements to prevent them from running dry. The ball bearings of the machine are permanently lubricated.
14. Replace the spindle bearings as soon as they begin to make any strange noises. Worn bearings can destroy blades very quickly.
15. Grease pivot bearings periodically.

MAINTENANCE INTERVALS

Use the following guidelines to perform maintenance on your saw.

After every use of the machine

- Remove dirty water from container.
- Remove dirt and mud from the bottom of the container.
- Rinse the immersion pump with fresh water to prevent water pump clogging from residual dirt.

After wet cleaning and before using the machine again

- Connect the machine to an electric power outlet equipped with a "GFCI" safety power breaker. If the safety power breaker cuts off the electrical power supply, do not try to operate the machine but have it checked by an authorized dealer first.

Before not using the machine for a prolonged period of time

- Clean and lubricate all movable parts. **DO NOT** grease guide rails.

After not using the machine for a prolonged period of time

- Check that the stand is safely fixed.
- Check that all screw joints and nuts are fixed.
- Check that the cutting table is seated properly on the guide rails and that it easily moves along the entire length of the rails.
- With the saw blade removed, switch on the motor for an instant and switch it off again. If the motor does not run, have the machine inspected by a qualified electrician.
- Check that the immersion pump works properly. Turn on the cooling water tap and switch the machine on. If the pump does not give any water or only a little, switch the machine off at once. Clean the pump, or replace if necessary.

Ambient temperature below 32°F / 0°C (operation in winter)

- To prevent the water in the pump and cooling system from freezing, remove the water after using the machine or when there will be a long break. Make sure that the cooling system is entirely drained so that there is no water left inside the pump and water hose.

CLEANING THE WATER TRAY

Refer to Figure 17.

1. Remove the rear drip tray.
2. Lift the saw up from inside the water tray.
3. Remove the drain plug and drain any water left inside the water tray.
4. Flush water into tray while holding it upright to remove any sludge buildup.
5. Replace the saw back into the water tray.
6. Attach the rear drip tray.

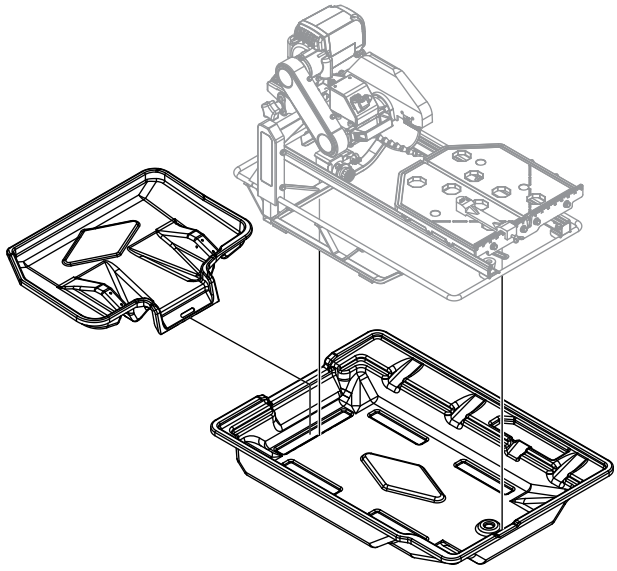


Figure 17. Water Tray Removal

WATER PUMP MAINTENANCE

When the machine has not been used for a long period of time, hard packed dirt may build up inside the pump and block the pump wheel.

NOTICE

If the machine is activated with the immersion pump blocked, the electric motor will be damaged within a few minutes!

Please follow the steps below to clean the pump before operating the saw.

1. Remove the immersion pump from the water container.
2. Clean the immersion pump.
3. Loosen the fixing screws of the pump lid.
4. Take the lid off the pump (be careful not to damage or lose the gasket underneath)
5. Clean the pump lid.
6. Remove all dirt and incrustations from the pump wheel.
7. Check whether the pump wheel can be easily turned.
8. Reassemble the immersion pump and check that it works properly.

BELT REPLACEMENT

To replace the belt (Figure 18) perform the following.

1. Turn off and unplug the saw.
2. Loosen and remove the 4 bolts located above and below the belt guard. Remove the belt guard.
3. Loosen the 4 bolts located at the base of the motor.
4. Use a hex wrench to access the socket hex bolt located at the rear of the cutting head. Turn wrench to move the motor forward, thus providing some slack in the belt.
5. Take off the old belt and replace with new belt.
6. To reassemble, follow steps 1-4 in reverse order. Make sure belt is at the proper tension before tightening the four bolts at the base of the motor.

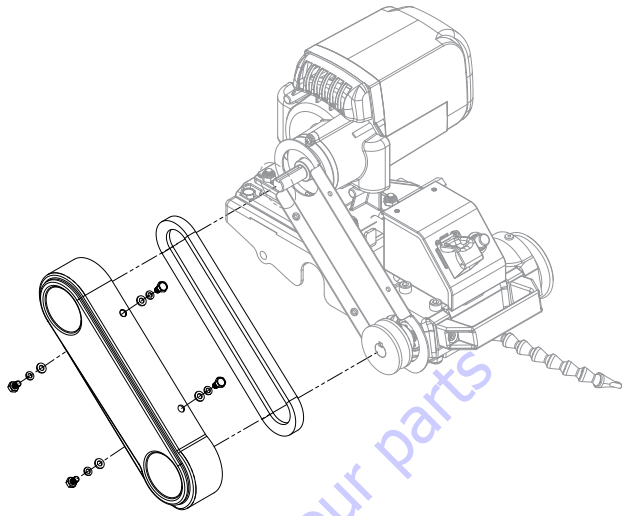


Figure 18. Belt Replacement

CUTTING HEAD REMOVAL

To remove the cutting head, see Saw Set-Up

BEARING HOUSING REMOVAL

To remove the bearing housing (Figure 19), perform the following:

1. Remove the 4 screws on the belt guard.
2. Remove the belt guard.
3. Loosen (do not remove) the adjustment screw behind the mounting plate and the 4 screws on the motor base to remove the belt.
4. Remove the blade lock nut and remove the blade (if there is one present.)
5. Remove the 4 screws on the mounting plate closest to the cutting head handle to remove the bearing housing (including the attached pulley and inner flange.)

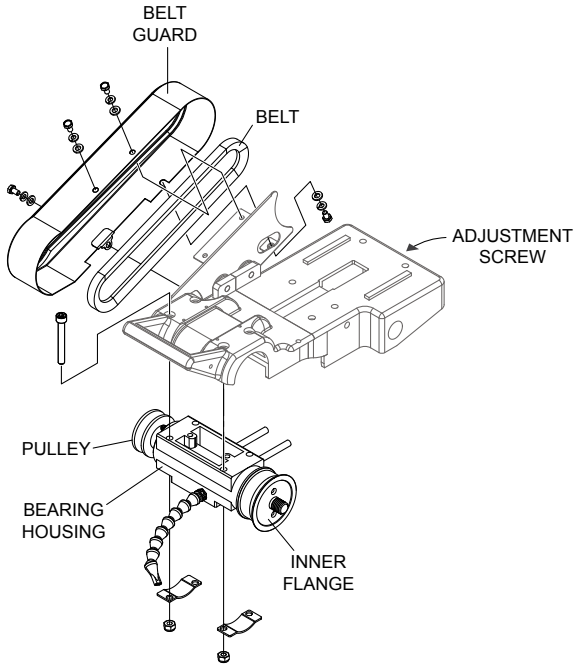


Figure 19. Bearing Housing Removal

BEARING HOUSING INSTALLATION

To install a new bearing housing, perform the following:

1. Make sure that the old housing has been properly removed.
2. Unpack the new bearing housing and place the flat portion face-down on a towel situated on a flat surface.
3. Secure the cutting head in a in a completely horizontal position.
4. Slide the new bearing housing with the flat portion facing upwards onto the 4 screws located below the mounting plate. Take care not to damage the inner flange. Lock the bearing housing into place by using the brackets and nuts.
5. Pull the motor towards you, place the belt on the pulleys, and tighten the motor position adjustment screw. Be sure to leave some slack on the belt.
6. Align the belt by adjusting the motor pulley after loosening the hex screw.

⚠ WARNING

Do not adjust the bearing housing pulley.

7. After aligning the belt, tighten the hex screw.
8. Replace the belt guard and lock into place using 4 screws.

REALIGNMENT

Method 1

This procedure deals with the most common source of misalignment that occurs when the guide rails are not parallel with the blade.

1. Set the cutting depth such that the blade passes through the table, not over.
2. Place a straight edge (i.e. carpenter's square) on the cutting table as shown in Figure 20.
3. Loosen the left and right guide rails by loosening the fasteners found at the ends of the rail. The left rail should be slightly loose, so there is not too much play during adjustments, but the right rail should move freely.

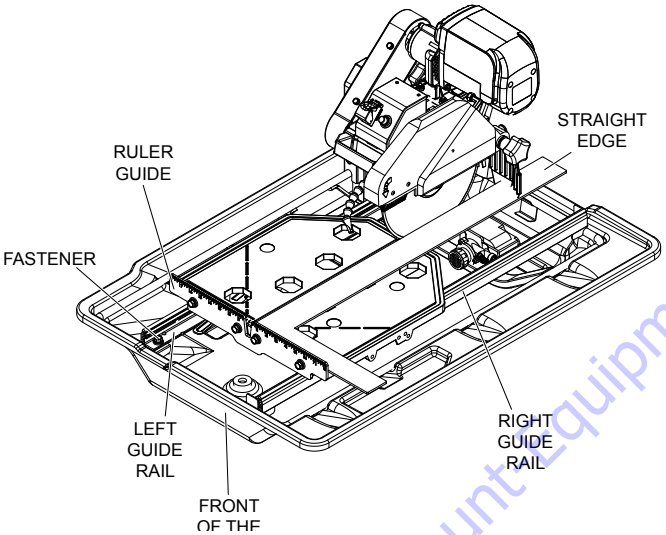


Figure 20. Realigning Guide Rails

4. Make sure the short portion of the straight edge is placed flush against the ruler guide. Adjust the left guide rail so that the front and rear edges of the blade touch the straight edge, although a tolerance of 0.1mm (.004 in.) between the front and rear edges is allowed. Perform this adjustment along the entire length of the straight edge.
5. Position the table as close to the user as possible. Place the straight edge flush against the ruler guide and blade. Without holding onto the straight edge, gently move the table towards the rear of the saw and then back. Observe any gaps that may appear between the straight edge and blade or between the straight edge and ruler guide. A gap exceeding the allowed tolerance means that the table is not moving parallel to the blade; hence, further adjustments as outlined below will be required. However, if scenario A or B (described below) occurs, other adjustments may be required instead.
   a. If the straight edge only touches the blade when the table is positioned midway along the rail or at the ends of the rail, then the rail may be deformed (i.e. bowed). See Figure 21. Perform test cuts to determine if the rail should be replaced. Typically, a bowing displacement of up to 0.2mm (.008 in.) will not affect cutting accuracy.

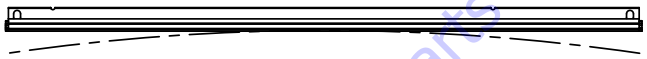


Figure 21. Rail Deformation

   b. If the straight edge touches both edges of the blade intially, but shifts apart as the table travels along the rail, proceed to Method 2.
6. Tighten the fasteners at both ends of the left rail.
7. Adjust the right guide rail so that the horizontal rollers underneath the table engage the rail as shown in Figure 22. In most cases the rollers will not have to be vertically adjusted. Spacing between rails must be equidistant at all points to ensure that they are parallel. Once adjustments are made, lightly tighten the fasteners on the right rail and move the table back and forth. If the table binds against the rail at any point, adjust spacing accordingly until the table moves smoothly.
8. Tighten the fasteners at both ends of the right rail.

If alignment has been achieved, do not proceed to Method 2.

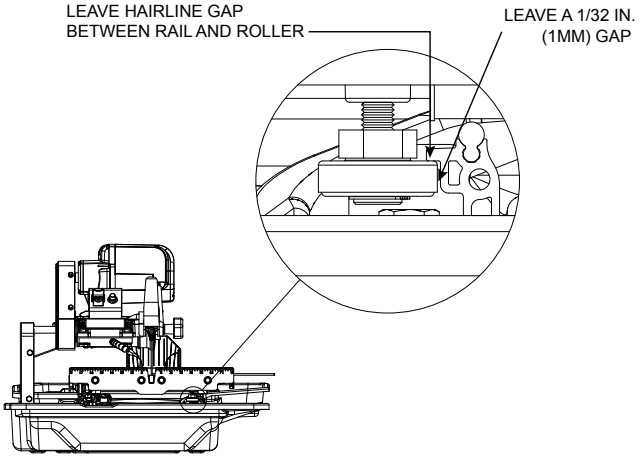


Figure 22. Adjust Right Guide Rail

Method 2

This procedure corrects another source of misalignment that occurs when the table's orientation is not parallel with the guide rails.

1. Use the universal wrench to loosen (but not remove) the fasteners from either end of both guide rails. Move each rail away from the other, so that the horizontal rollers are clear of the right guide rail. See Figure 23.

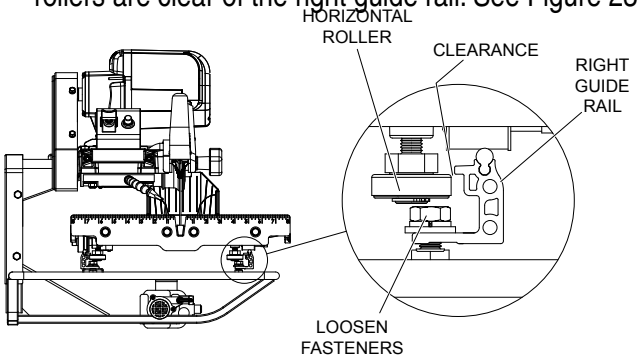


Figure 23. Roller Clearance

2. Remove rubber cap A on the left side of the table. Loosen the exposed lock nut using a 13mm socket wrench. Use a flat screwdriver to turn the shaft of the roller clockwise to lower it by approximately 3/8 in. (9.5 mm). See Figure 24. Evenly lift up the table to disengage the guide rollers from the left guide rail. Once the guide rollers are clear, shift the table to the right to clear the left horizontal roller of the rail. Remove the table from the guide rails. See Figure 25.

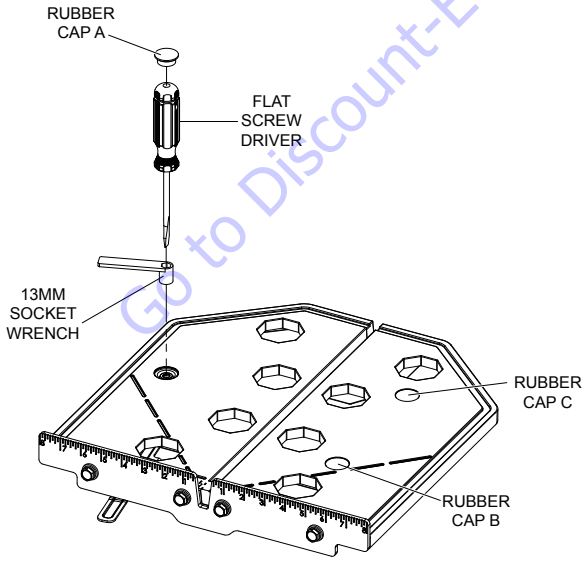


Figure 24. Lowering Roller

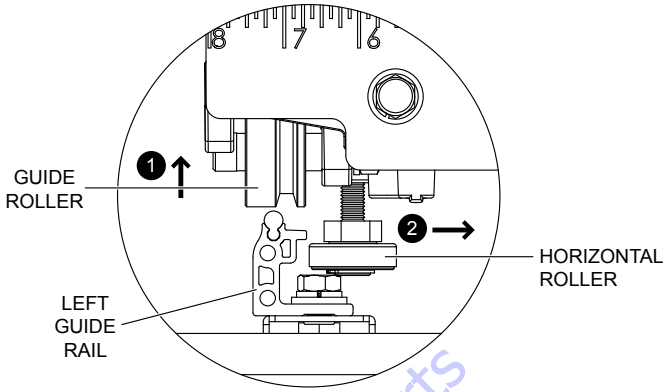


Figure 25. Remove Table

3. If the table shifts to the right as it travels away from the user, a shim needs to be added to the guide roller furthest from the ruler guide. On the other hand, if the table shifts to the left, a shim needs to be added to the guide roller closest to the ruler guide. Remove the appropriate guide roller to insert a shim between the roller and table, then reattach. See Figure 26. Depending on the severity of the shift, more than one shim may be required.

4. After adding shim(s), mount the table onto the guide rails by reversing the instructions in step 2. Move the rails toward each other to engage the horizontal rollers to the right guide rail as shown in Figure 22. Realign the table to the blade using Method 1. Check to see if any shifting persists. A shift tolerance of 0.2mm (.008 in.) is allowed. A shift in excess of that will require further adjustment—repeat step 3.

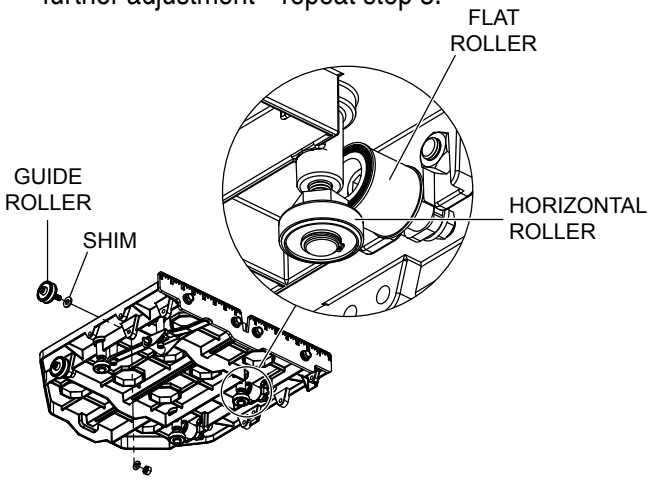


Figure 26. Add Shims

5. Once alignment is successful, replace saw back into water tray.

Leveling Adjustment

This procedure levels the table so that it is perpendicular to the blade and flush against the rails.

1. Remove rubber caps B and C on the right side of the table. Loosen the exposed lock nuts using a socket wrench. Next, use a flat screwdriver to turn the shaft of the rollers clockwise. See Figure 24. This will lower the horizontal rollers to allow room for adjusting the flat rollers.
2. Loosen the socket bolts on the flat roller plate so that the roller can swing freely about one bolt. see Figure 27. Do this for both flat roller plates.
3. Hold the table against the guide rails. The flat rollers should reposition themselves to maintain contact with the guide rails. If the table is not perpendicular to the blade, lift the right side of the table instead to obtain the proper angle. A square tool will be required to confirm the angle. Tighten the socket bolts. Check the table for play. Repeat step 2 if some play is still present.
4. Restore the horizontal rollers to their original positions as shown in Figure 22 by reversing the instructions in step 1. Be sure to tighten the lock nuts and replace the rubber caps.

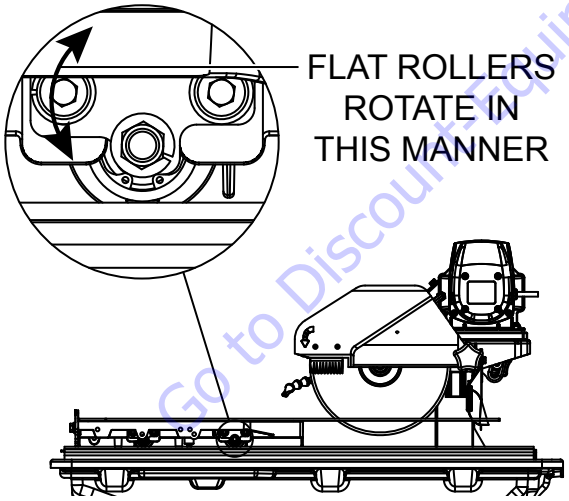


Figure 27. Flat Roller Rotation

TRANSPORTING THE SAW

1. Ensure that the water tray is empty and dry.
2. Unplug the power cord and store it in the water tray.
3. Secure the cutting table to the front of the saw using the table retention device.
4. Tighten the cutting depth control knob.
5. Optionally, the rear drip tray may be removed and set in the water tray for better handling.

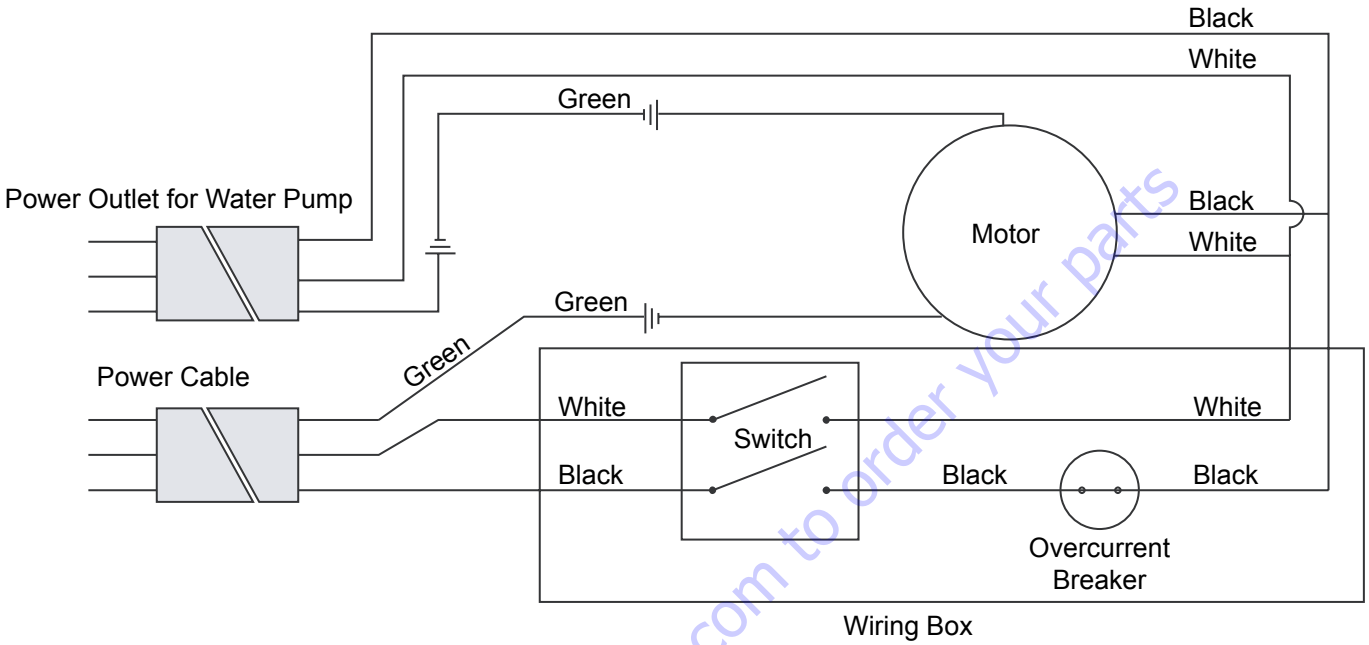


Figure 28. Electric Motor Wiring Diagram

Table 7. Blade Troubleshooting		
Symptom	**Possible Problem**	**Solution**
Irregular run of the saw blade	Poor tension in the blade material	Return saw blade to manufacturer
Saw blade wobbles when running	Saw blade is damaged or bent	Have the saw blade aligned/flattened
		Chean the receiving flange
		Replace saw blade.
	Flange of the saw blade is damaged	Replace the saw blade flange
	Shaft of the motor is bent	Replace the electric motor
Diamond segment becomes loose	Overheating of the saw blade; cooling water not sufficient	Replace saw blade.
Excessive wear	Wrong type of saw blade	Use harder saw blade
	Shaft of motor causes wobbling	Have motor or bearings of motor replaced
	Overheating	Ensure optimum flow of cooling water
Cracks in or near diamond segment	Saw blade too hard	Use softer blade
	Fixed flange is worn out	Have fixed flange replaced
	Motor shaft bearing	Replace the bearing of the motor shaft
Saw blade is blunt	Saw blade type is unsuitable for the material being cut	Use appropriate type of saw blade
	Saw blade type is unsuitable for the machine performance	
	Saw blade too hard	
	Diamond segments are blunt	Replace saw blade.
Appearance of cut is not optimal	Poor tension in the blade material	Return saw blade to manufacturer
	Too much load placed on saw blade	Use a suitable saw blade
	Diamond segments are blunt	Replace saw blade.
Center hole in saw blade has become wider due to wear	Saw blade has slipped on the motor shaft when running	Arbor of the saw blade must be fitted with an appropriate adapter ring
		Check the receiving flange and have it replaced if necessary
Saw blade shows blooming colors	Saw blade overheating due to lack of cooling water	Ensure optimum flow of cooling water
	Lateral friction when cutting	The material feed is too high; proceed more slowly
Grinding marks on the saw blade	Material is not being fed parallel to saw blade	Ensure that the direction of the feed is absolutely parallel to the saw blade
		Adjust roller table
	Poor tension in blade material	Have the saw blade tensioned
	Too much load on the saw blade	The material feed is too high; proceed more slowly

Table 8. Saw Troubleshooting		
Symptom	**Possible Problem**	**Solution**
Machine does not run when switched on	Power cord not properly fixed/plugged in	Check that the machine is properly connected to the power supply
	Power cord defective	Have the power cord checked, replace if necessary
	Main power switch defective	Have the main power switch checked and replaced if necessary by a qualifed electrician
	Loose electrical connection inside the electric system	Have the whole electric system of the machine checked by a qualified electrician
	Motor defective	Have the motor checked and replaced if necessary by a qualified technician
Motor stops (power cuts out)	Too much pressure exerted while cutting	Exert less pressure when cutting
	Incorrect specification for saw blade	Use a saw blade which corresponds to the material being cut
	Saw has a defective electric system	Have the electric system of the saw checked by a qualified technician
Poor machine performance, little power	Power cord/extension cable too long or cable still wound up inside cable drum	Use a power cord/extension cable of the rated length, use a cable drum with cable fully extended
	Power network is insufficient	Observe the electrical ratings of the machine and connect it only to a power network which complies with these ratings
	Drive motor no longer runs at rated speed (RPM)	Have the motor checked by a qualified electrician and replace if necessary
Insufficient flow of cooling water or no cooling water at all	The water pump draws air	Fill the water tray with water
	Filter clogged	Clean the filter of the water pump
	Pump wheel of the immersion pump is blocked by dirt	Disassemble the immersion pump and clean it

EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN.	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break — Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"
"S/N XXXX AND ABOVE"
"S/N XXXX TO S/N XXX"

Specific Model Number Use — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"
"NOT USED ON XXXX"

"Make/Obtain Locally" — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

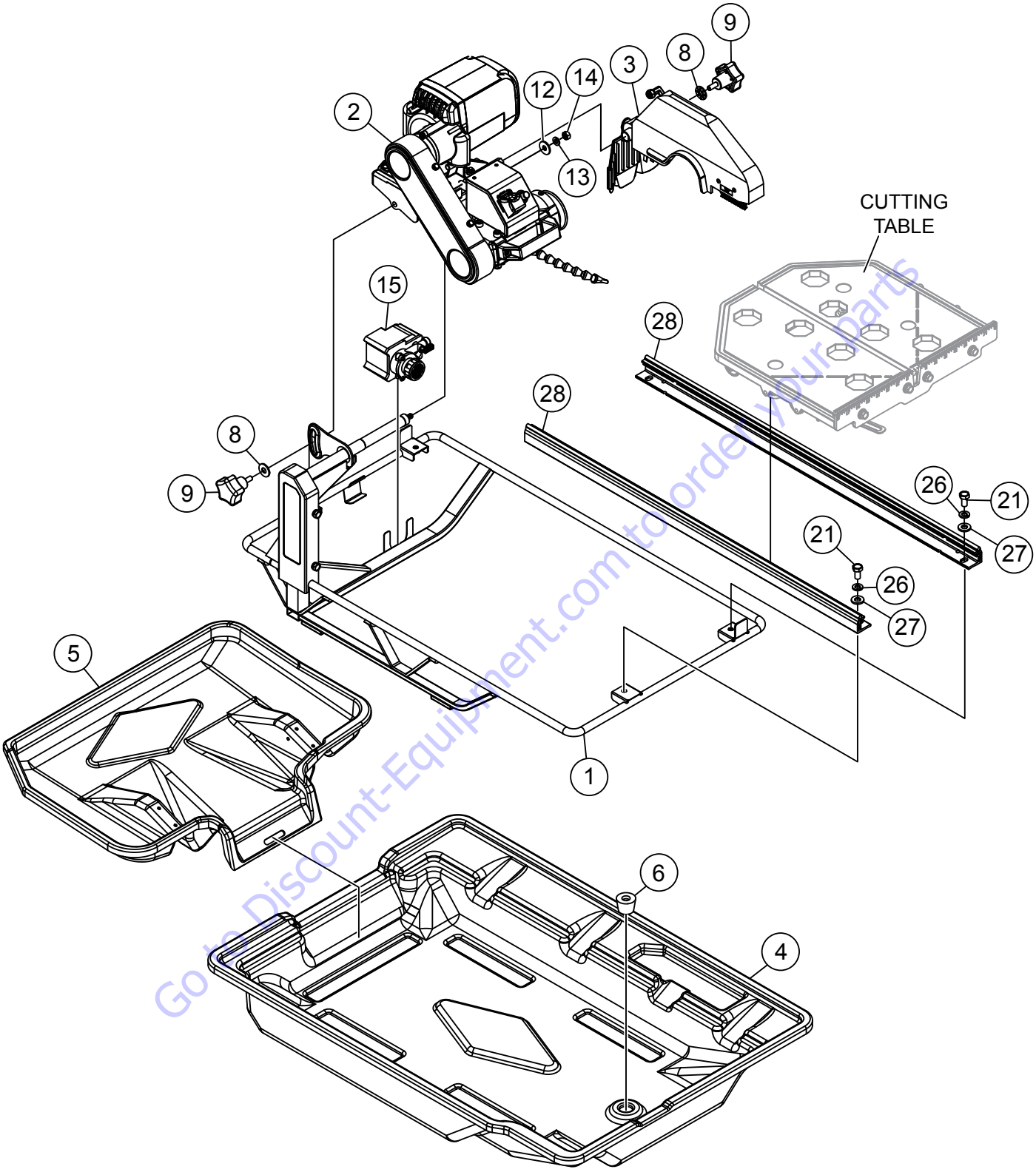
TP24 TILE SAW WITH ELECTRIC MOTOR

1 to 3 units

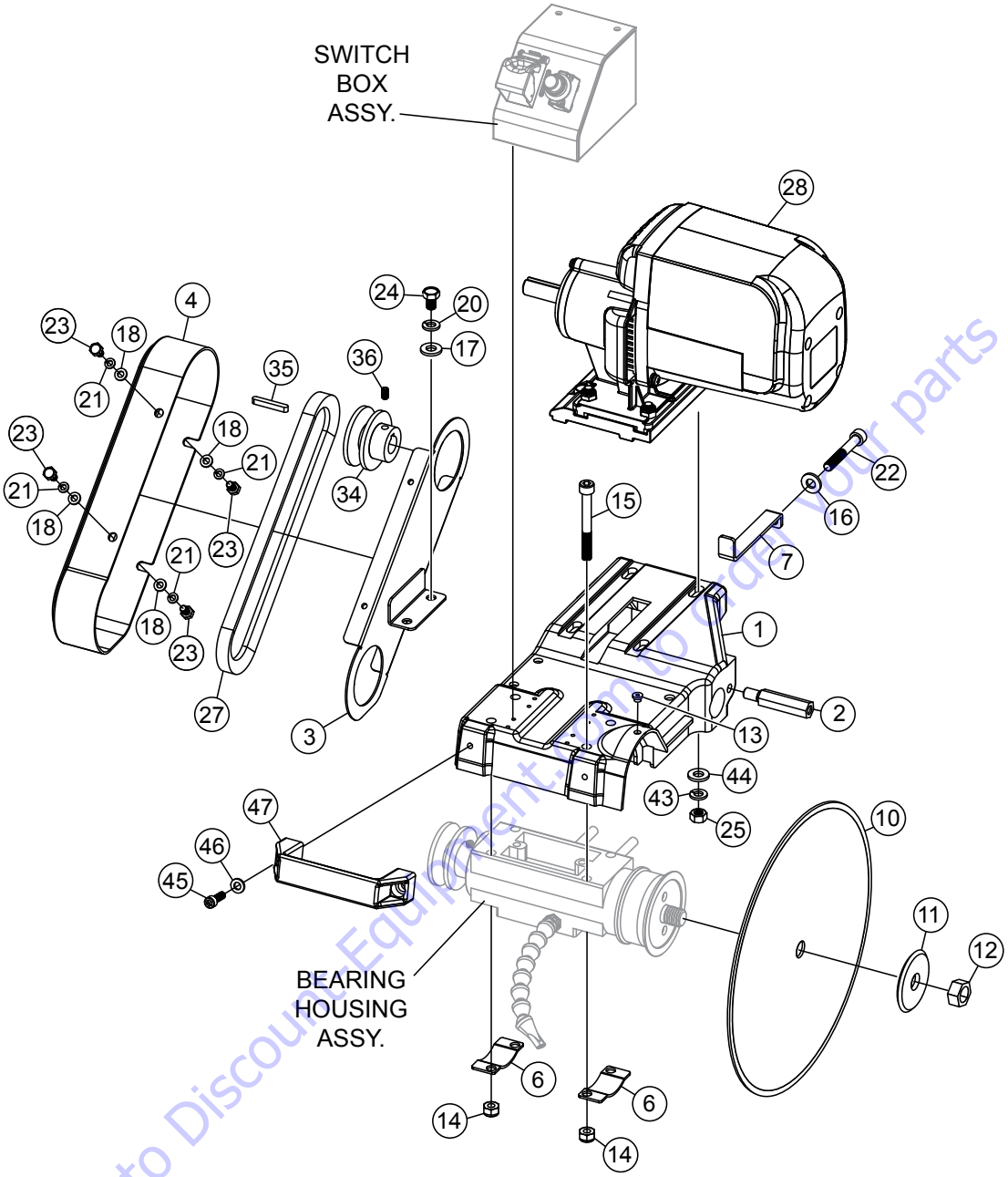
Qty.	P/N	Description
1	TP100072	V-BELT
1	TPS100003	SWITCH, TOGGLE 15A
1	TP100152	CARBON BRUSH

NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

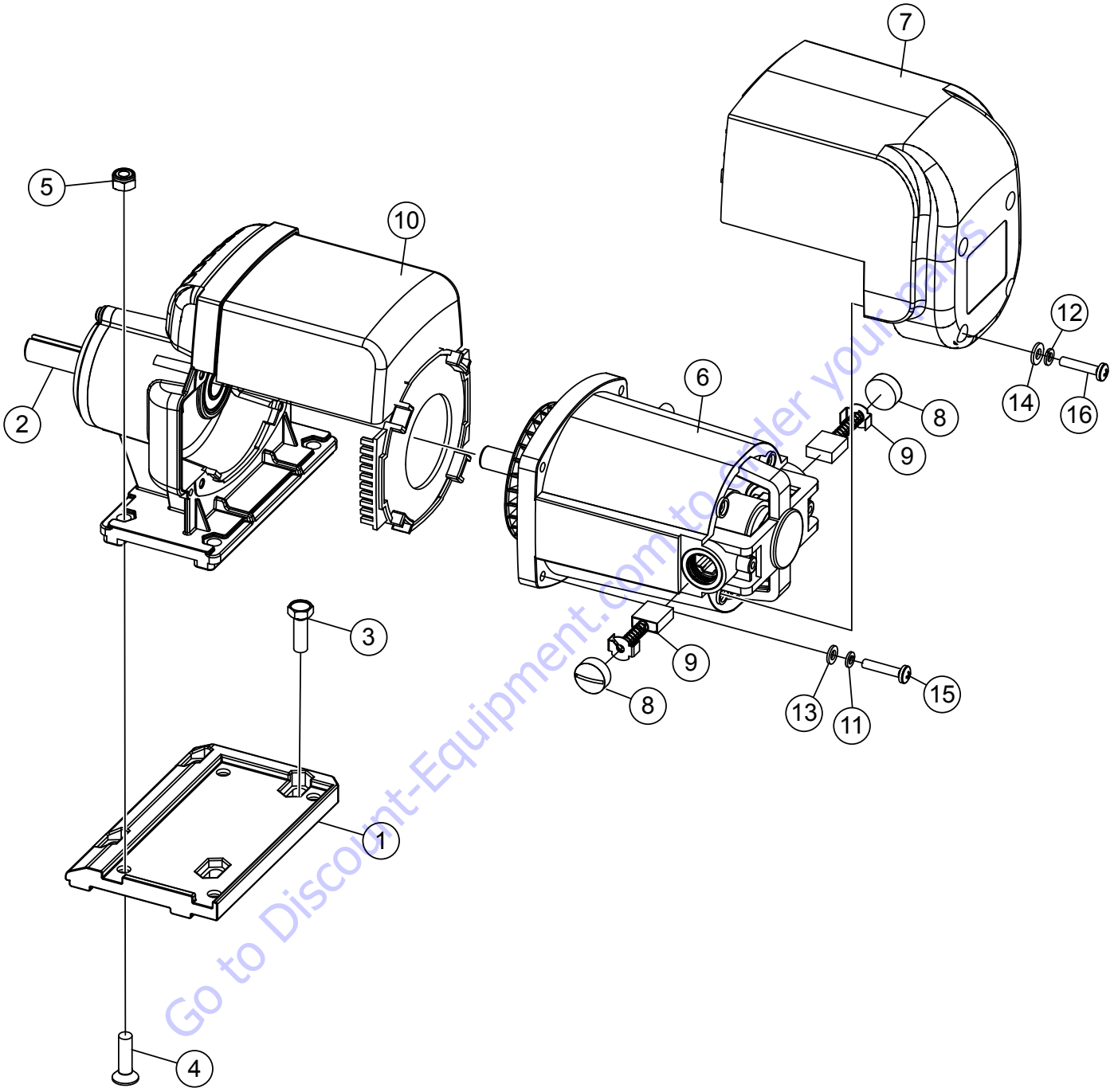


NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100125	FRAME ASSY	1	
2	TP100127	CUTTING HEAD ASSY	1	
3	TP100129	10" BLADE GUARD ASSY	1	
4	TP100143	WATER TRAY	1	
5	TP100144	WATER TRAY, BACK DRIP	1	
6	TP100140	PLUG, WATER TRAY	1	
8	TP100138	M10 SPRING WASHER	2	
9	TP100139	KNOB, M8 X 1.25 X 20L	1	
12	TP100141	WASHER, M8	1	
13	TP100080	WASHER SPRING M10	1	
14	TP100086	NUT, M8 X 1	1	
15	TP100132	WATER PUMP, 230 GAL/HR	1	
21	TP100109	BOLT, HEX M8 X 1.25 X 16L	4	
26	TP100080	WASHER, SPRING M8	4	
27	TP100141	WASHER, NARROW M8	4	



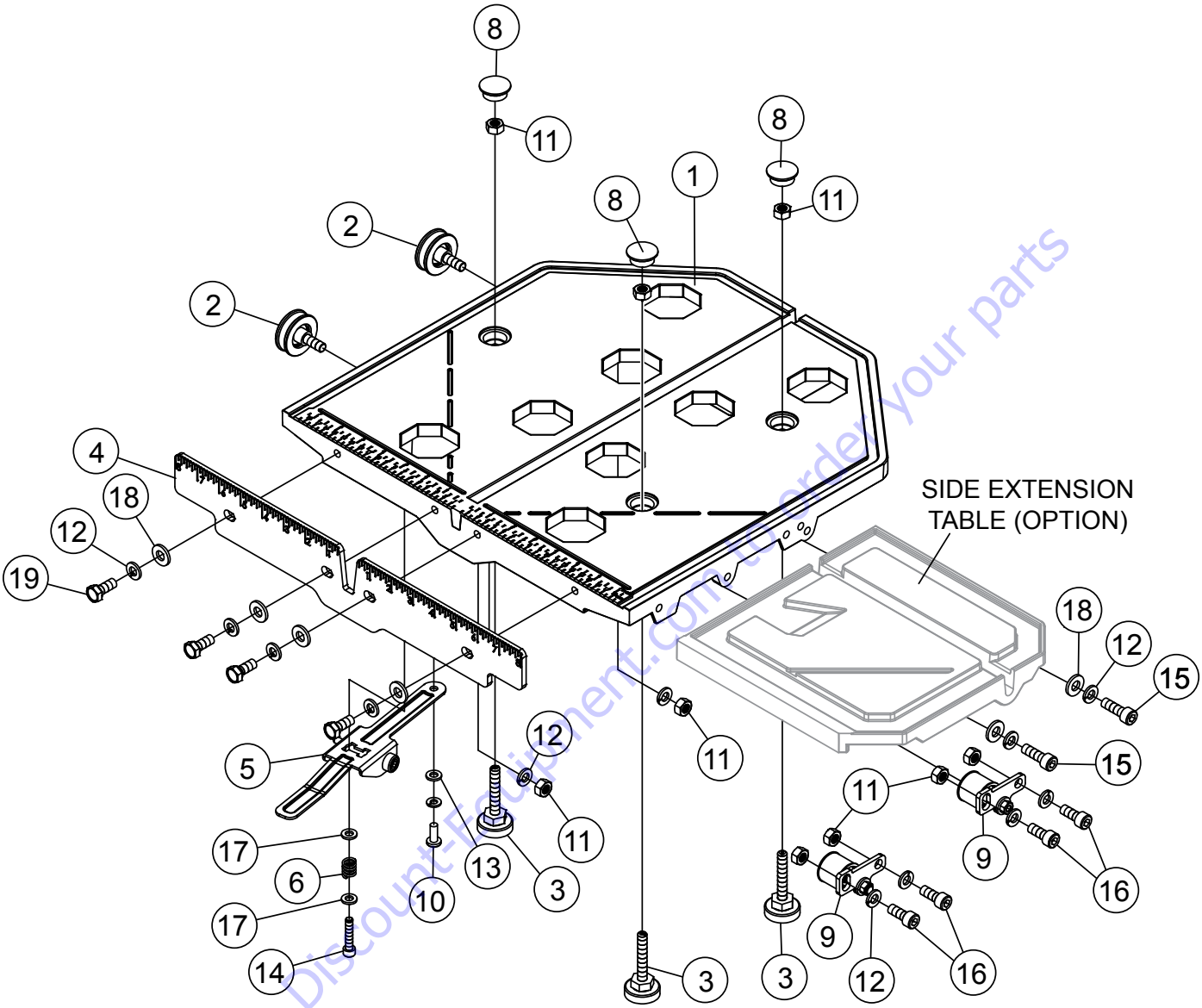
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100064	MOUNTING PLATE	1	
2	TP100068	SHAFT, BLADE GUARD	1	
3	TP100069	BRACKET, BELT GUARD	1	
4	TP100067	BELT GUARD	1	
6	TP100077	BRACKET, LCBH	2	
7	TP100074	BRACKET, MOTOR TENSION	1	
10		BLADE, 10" GENERAL PURPOSE	1	CONTACT UNIT SALES
11	TP100136	FLANGE, UNIVERSAL, DIA 5/8"	1	
12	TP100137	NUT, 5/8-11 UNC	1	
13	TP100075	RUBBER STOP, CIRCULAR D6	1	
14	TP100086	NUT, NYLON M8 X 1.25	4	
15	TP100085	BOLT, HHSC M8 X 1.25 X 70L X 28	4	
16	TP100142	WASHER, M8	1	
17	TP0120	WASHER, M8 NARROW	2	
18	TP100061	WASHER, NARROW M6	4	
20	TP0121	WASHER, M8 LOCK	2	
21	TP100081	WASHER, SPRING M5	4	
22	TP100083	BOLT, HHSC, M8 X 1.25 X 55L X 28	1	
23	TP100062	BOLT, HEX M6 X 1 X 10L	4	
24	TP100087	BOLT, HEX M8 X 1.25 X 12L	2	
25	TP100082	NUT, M8 X 1	4	
27	TP100072	V-BELT, 23"	1	
28	TP100066	MOTOR ASSY	1	
34	TP100092	PULLEY, MOTOR	1	
35	TP100093	KEY, SQUARE 5 X 5 X 30L	1	
36	TP100094	SET SCREW, FLAT POINT, M6 X 1 X 10L	1	
43	TP100080	WASHER, SPRING M8	4	
44	TP100079	WASHER, NARROW M8	4	
45	TP100084	BOLT, HHS M6 X 1 X 20L	2	
46	TP100061	WASHER, NARROW M6	2	
47	TP100073	HANDLE, RECTANGLE 26.5H X 7W X 93L	1	

ELECTRIC MOTOR ASSY.



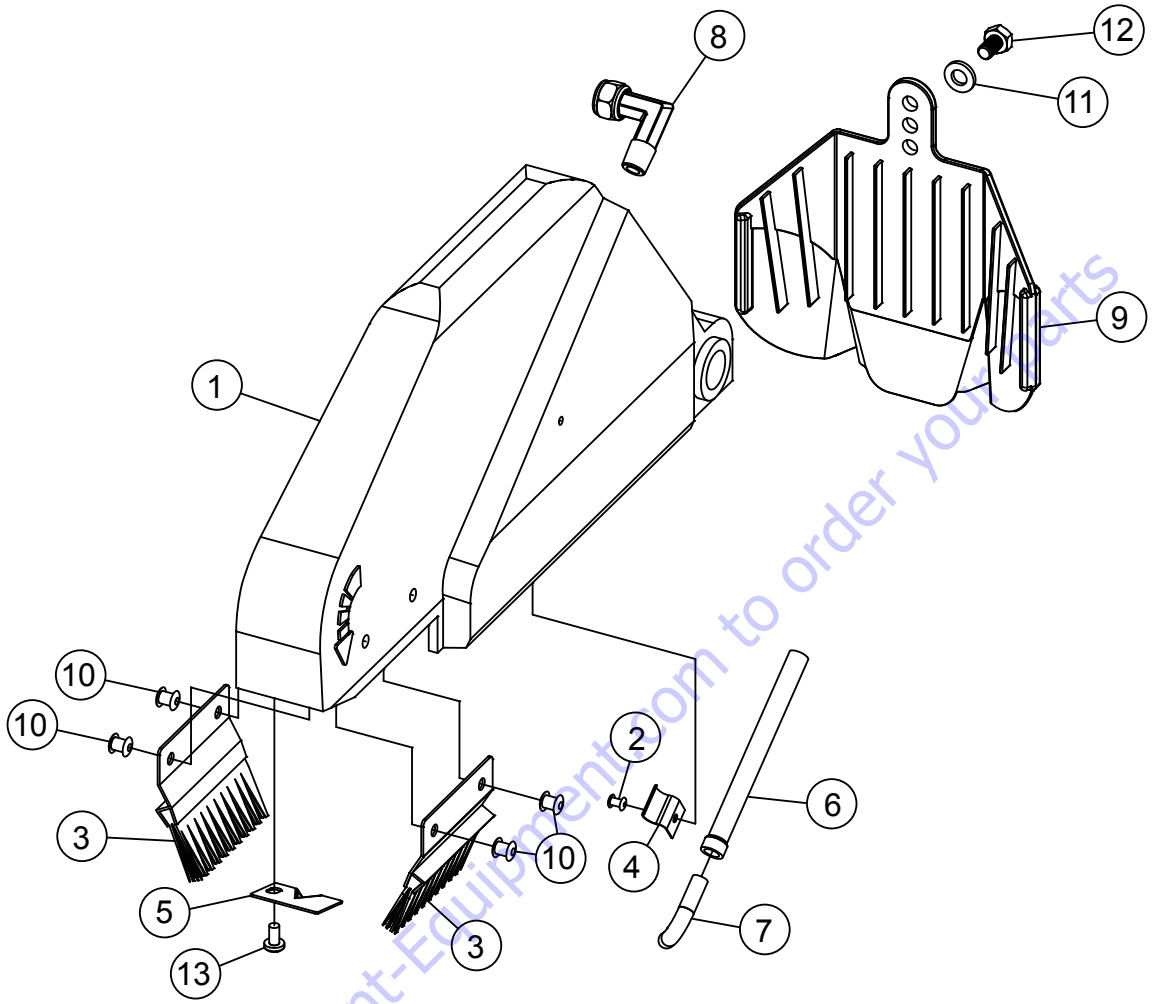
ELECTRIC MOTOR ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100145	MOUNTING BLOCK	1	
2	TP100146	MOTOR ASSY, M2 2HP	1	
3	TP100147	BOLT, HEX M8 X 1.25 X 25L	4	
4	TP100148	BOLT, COUNTERSUNK SOCKET, M8 X 1.25 X 30L	1	
5	TP100082	NUT, NYLON M8 X 1.25	4	
6	TP100149	ARMATURE AND WINDING ASSY	1	
7	TP100150	MOTOR COVER	1	
8	TP100151	CAP, CARBON BRUSH	2	
9	TP100152	CARBON BRUSH, 17MM X 7 M (SET OF 2)	1	
10	TP100153	WIND BAFFLE	1	
11	TP100154	WASHER, SPRING M5	4	
12	TP100155	WASHER, SPRING M4	4	
13	TP100156	WASHER, NARROW M5	4	
14	TP100157	WASHER, NARROW M4	4	
15	TP100158	CROSS SCREW, M5 X .8 X 25L	4	
16	TP100159	CROSS SCREW, M4 X .7 X CROSS SCREW	4	



CUTTING TABLE ASSY.

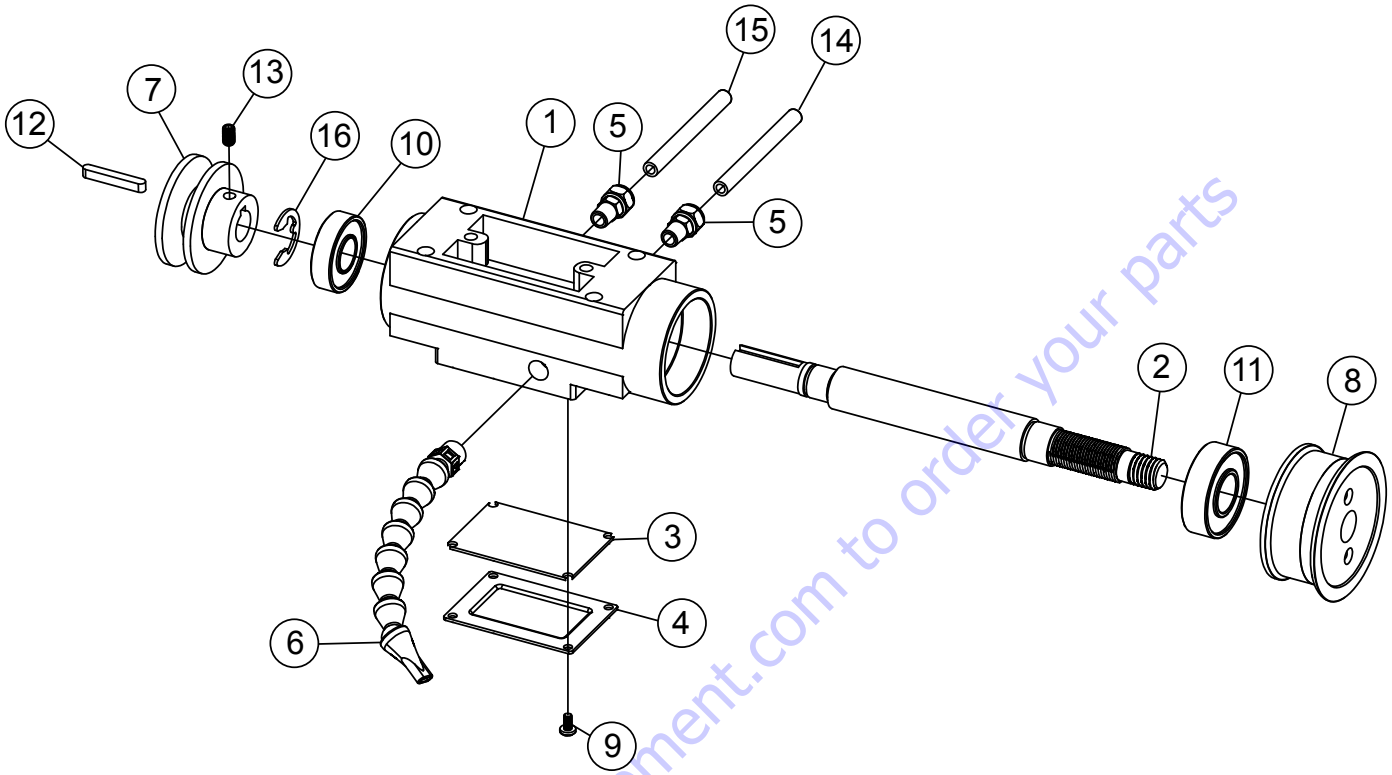
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100095	CUTTING TABLE	1	
2	TP100097	GUIDE ROLLER (SET OF 2)	1	
3	TP100098	CONCENTRIC FLAT ROLLER	3	
4	TP100099	RULER GUIDE	1	
5	TP100100	SPRING LOCK ASM	1	
6	TP100101	SPRING	1	
8	TP100103	RUBBER CAP	3	
9	TP100105	FLAT ROLLER ASM (SET OF 2)	1	
10	TP0322	HEX BOLT M6X1.0X10L	1	
11	TP100082	NUT M8X1	9	
12	TP0121	WASHER LOCK M8	12	
13	TP100081	WASHER LOCK M6	1	
14	TP25095	HEX BOLT M6X1.0X30L	1	
15	TP100107	HEX BOLT M8X1.25X25L	2	
16	TP100108	HEX BOLT M8X1.25X20L	4	
17	TP0384	WASHER NARROW M6	2	
18	TP0120	WASHER NARROW M8	6	
19	TP100109	HEX BOLT M8X1.25X20L	4	



BLADE GUARD ASSY.

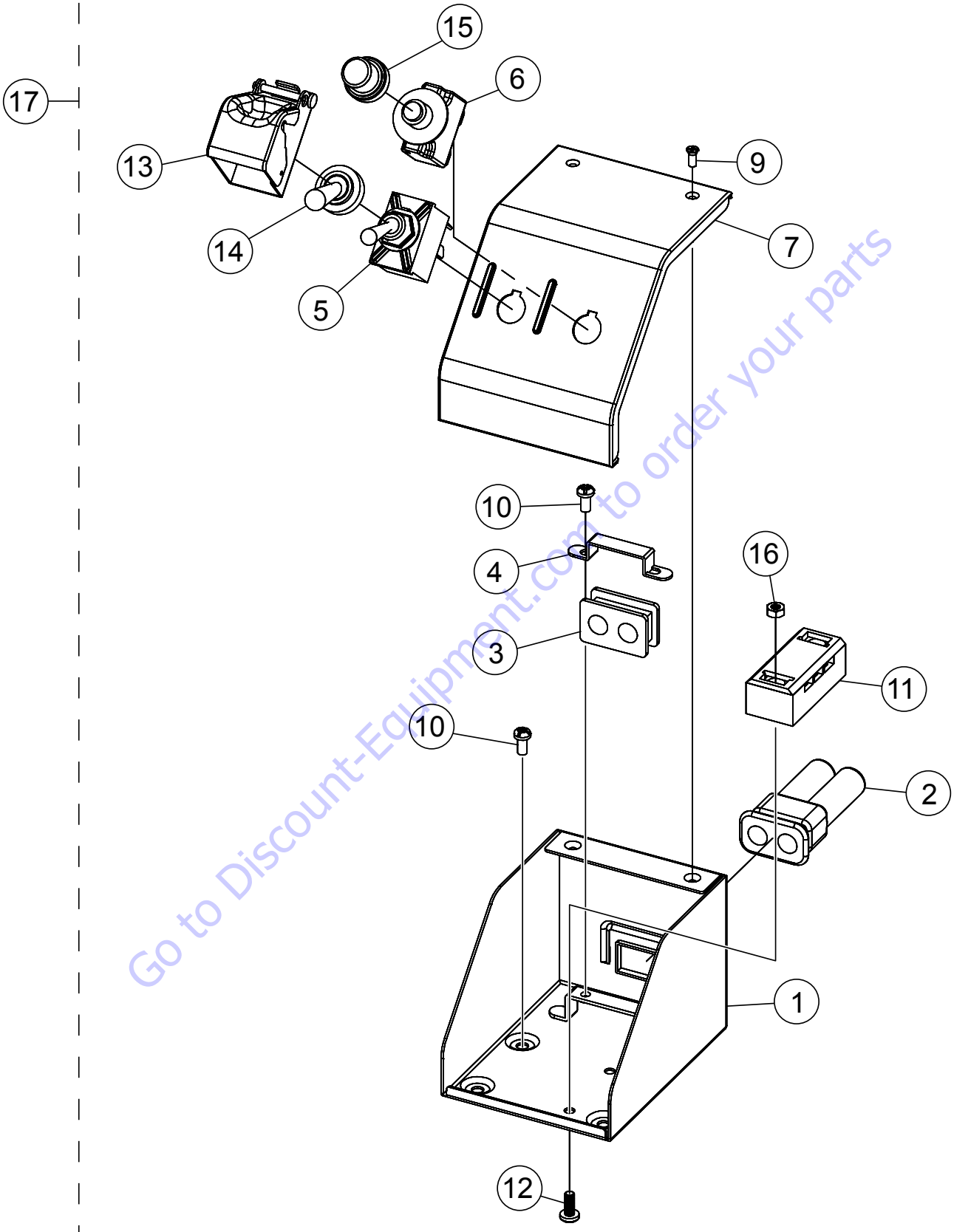
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100051	BLADE GUARD	1	
2	TP100053	M3 RIVET	1	
3	TP100054	PLASTIC BRUSHES	2	
4	TP100055	RETAINING CLIP	1	
5	TP100056	WATER BAFLE PLATE	1	
6	TP110057	WATER TUBE	1	
7	TP100058	D6.4MM 90° ELBOW PIPE	1	
8	TP100059	D8 90° ELBOW HOSE CONNECTOR	1	
9	TP100060	RUBBER SPLASH GUARD	1	
10	TP481101	M5 RIVET	4	
11	TP100061	WASHER NARROW M6	3	
12	TP0322	HEX BOLT M6X1.0X10L	3	
13	TP0353	CROSS SCREW M4X0.7X8L	1	

BEARING HOUSING ASSY.



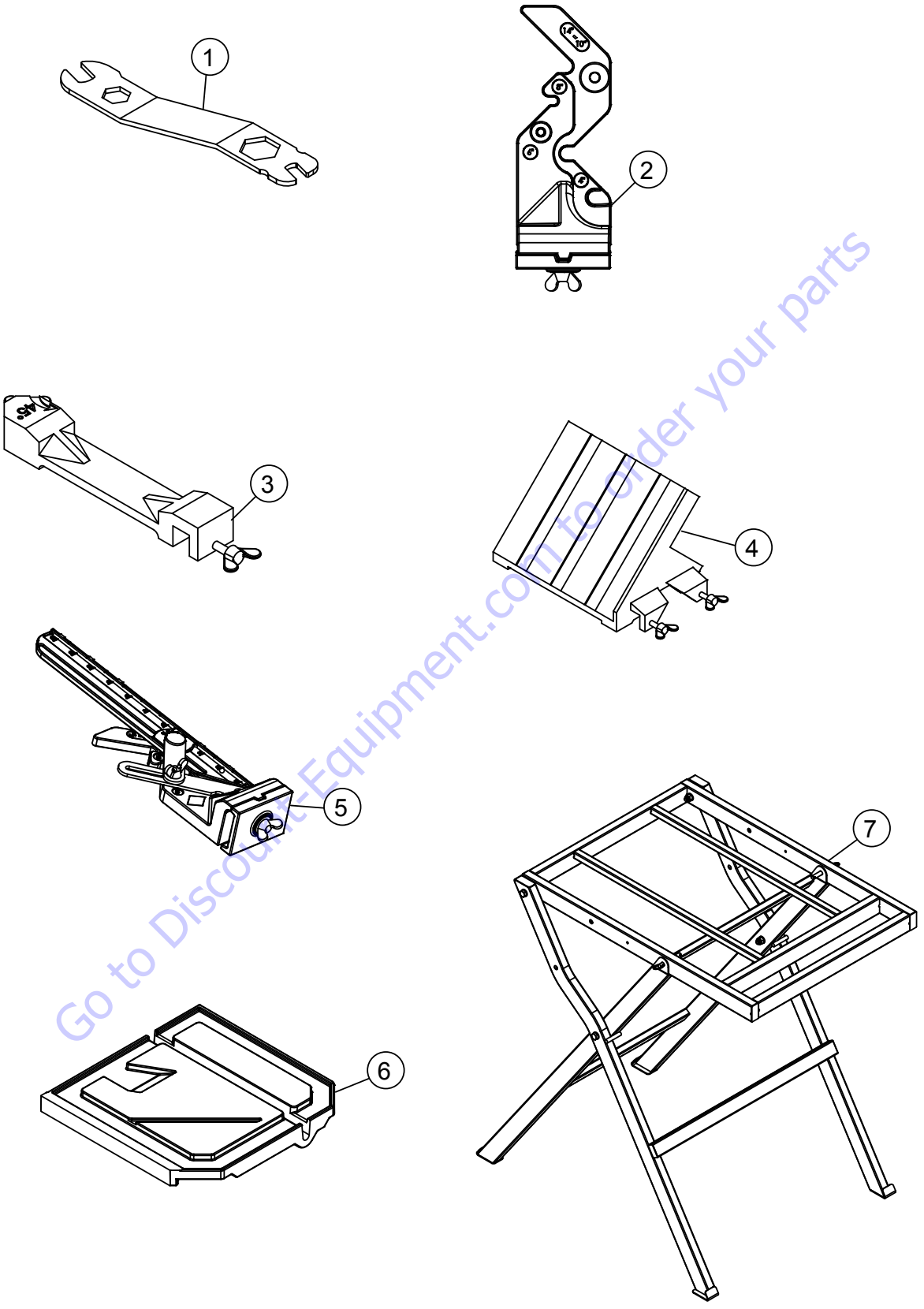
BEARING HOUSING ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TP100110	BEARING HOUSING	1	
2	TP100112	BLADE SHAFT	1	
3	TP100113	RUBBER GASKET	1	
4	TP100114	WATER CHANNEL COVER	1	
5	TP100116	MALE CONNECTOR, M10 TO D7.5	2	
6	TP110017	WATER LINK ASM	1	
7	TP100118	BLADE SHAFT PULLEY	1	
8	TP100119	INNER ARBOR FLANGE	1	
9	TP1374	CROSS SCREW M4X0.7X8L	4	
10	TP100120	BEARING RADIAL D40	1	
11	TP100121	BEARING RADIAL D47	1	
12	TPS1000062	KEY, SQUARE 5X5X30L	1	
13	TP0316	SET SCREW FLAT PT M6X1.0X10L	1	
14	TP100122	HOSE, BLADE GUARD	1	
15	TP100123	HOSE, WATER PUMP	1	
16	TP100124	M17 E-CLIP	1	



SWITCH BOX ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1@	TP420280	SWITCH BOX HOUSING	1	
2@	TP420281	2 CABLE D9 CABLE GROMMET	1	
3@	TP420282	2 CABLE D9 CABLE BOOT	1	
4@	TP420283	CABLE CLAMP	1	
5@	TPS100003	SWITCH, TOGGLE 15A	1	
6@	TPS100004	CIRCUIT BREAKER RESET 20A	1	
7@	TP420286	SWITCH BOX COVER	1	
9@	TP110032	SCREW CROSS M3X0.5X8L	2	
10@	TP1374	SCREW CROSS M4X0.7X8L	6	
11@	TP420290	JUNCTION BOX	1	
12@	TP03531	SCREW CROSS M4X0.7X15L	2	
13@	TP420291	SHIELD POWER SWITCH	1	
14@	TPS1000032	BOOT POWER SWITCH	1	
15@	TPS1000041	BOOT RESET BUTTON	1	
16@	TP420294	NUT, M4 X 0.7	2	
17	TP100076	POWER SWITCH ASSY	1	INCLUDES ITEMS W/@



NO.	PART NO.	PART NAME	QTY.	REMARKS
1	TPS100041	UNIVERSAL WRENCH	1	
2	TPS1000MG1	MASTER GUIDE TEMPLATE BASE	1	OPTIONAL
3	TPS100035	45°/90° RIP GUIDE	1	
4	TPS100034	MITER BLOCK	1	OPTIONAL
5	TPS1000MG	MASTER GUIDE	1	OPTIONAL
6	TP100102	SIDE EXTENSION TABLE	1	OPTIONAL
7	TPSDT1010ST	SAW STAND	1	OPTIONAL

PARTS FINDER

Search Website by Part Number

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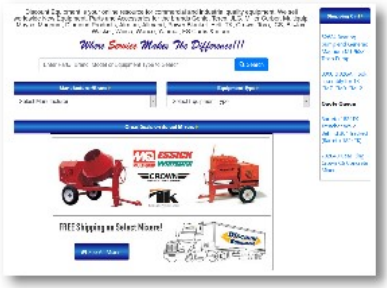

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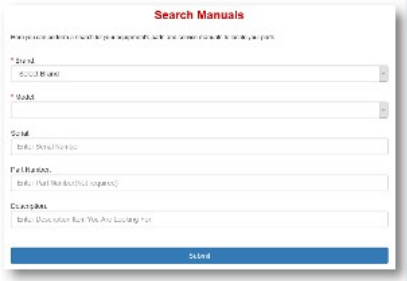

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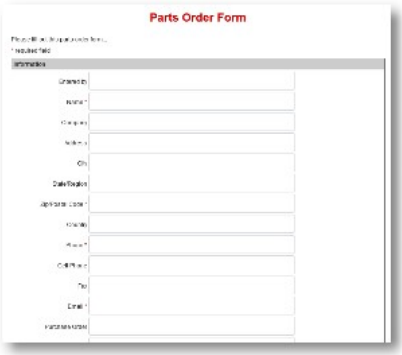

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OPERATION AND PARTS MANUAL

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