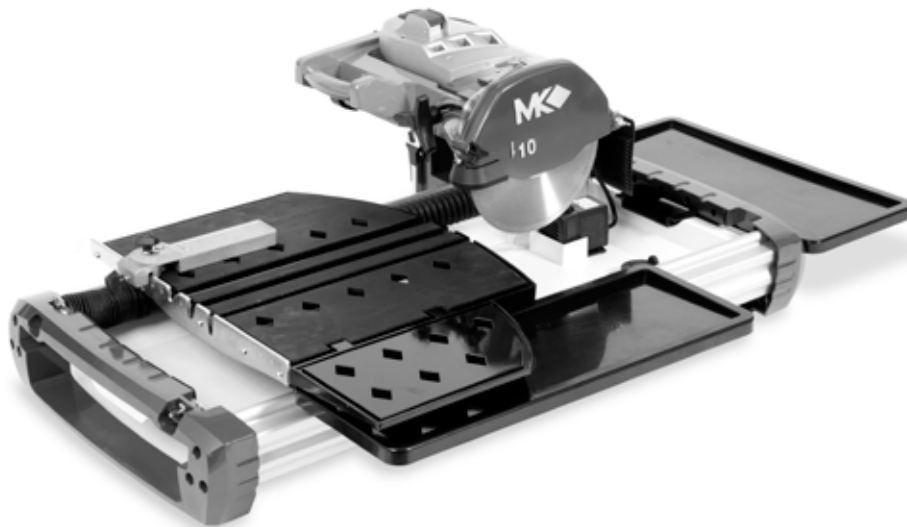


TX-4 TILE SAW OWNER'S MANUAL, OPERATION MANUAL & PARTS LIST



Revision 100	09.2015
Manual Part No. 171353	

Caution: Read all safety and operating instructions before using this equipment. This manual **MUST** accompany the equipment at all times.

We at MK Diamond want to congratulate you on selecting the TX-4. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your TX-4 should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your TX-4 safely and correctly. Please take a few minutes to familiarize yourself with the TX-4 by reading and reviewing this manual.

If you should have questions concerning your TX-4, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:


MODEL NUMBER:	
SERIAL NUMBER:	
PURCHASE PLACE:	
PURCHASE DATE:	

NOTE: For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number) and mail it in as soon as possible.

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Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life. Safety warnings and guidelines do not by themselves eliminate danger. They are not substitutes for proper accident prevention procedures and good judgement.

SAFETY MESSAGES

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol () and one of three words: **DANGER**, **WARNING**, or **CAUTION**.



DANGER You **WILL** be **KILLED** or **SERIOUSLY INJURED** if you **DO NOT** follow directions.



WARNING You **CAN** be **KILLED** or **SERIOUSLY INJURED** if you **DO NOT** follow directions.



CAUTION You **CAN** be **INJURED** if you **DO NOT** follow directions. It may also be used to alert against unsafe practices.

DAMAGE PREVENTION AND INFORMATION MESSAGES

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the word **NOTE**, as in the example below.

NOTE: Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS

In order to prevent injury, the following safety precautions and symbols should be followed at all times!



ALWAYS read this Owner's Manual before operating the machine. **DO NOT** operate or service this equipment before reading this entire manual. Read and understand all warnings, instructions and controls on the machine. Know how to stop the equipment quickly in case of emergency. It is the operators responsibility to use this machine under safe working conditions and conform with federal, state and local codes or regulations pertaining to safety, air, pollution, noise etc...



ALWAYS keep the Blade and Belt Guards in place. **DO NOT** operate this machine with any guard or safety device removed. A Guard, or any damaged part should be repaired or replaced immediately.



NEVER operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job. Non-slip foot wear is recommended.



PERSONAL PROTECTIVE EQUIPMENT

ALWAYS wear approved respiratory, head, ear and eye protection when operating this machine.



ACCIDENTAL STARTS!

Before starting the engine/motor, be sure the **ON/OFF** switch is in the **OFF** position to prevent accidental starting. Place the **ON/OFF** switch in the **OFF** position before performing any service operation. **ALWAYS** place the power **ON/OFF** switch in the **OFF** position when the machine is not in use.



ROTATING PARTS

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the motor with covers, shrouds, or guards, removed.



HOT PARTS!

Engine components can become extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running, or immediately after it is turned off. Never operate the engine with heat shields removed.



OVER SPEED

NEVER tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.



ELECTRICAL SHOCK

NEVER touch electrical wires or components while the engine is running. Exposed, frayed or worn electrical wiring and plugs can be sources of electrical shock which could cause severe injury or burns. Do not touch the plug with wet hands.



ALWAYS avoid inhalation of and skin contact with silica dust and/or mist. Provide proper dust removal. Use dust-collection system when applicable.



NEVER operate the machine in an explosive atmosphere or near combustible materials. Sparks from the cutting-action of this machine can ignite flammable materials, liquids, gases or dust.



This equipment should not be operated by persons under 18 years of age.



KEEP CHILDREN AWAY

All visitors and children should be kept a safe distance from work area. Maintain a safe operating distance to other personnel.



MAKE THE WORKSHOP KID PROOF

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.



DO NOT FORCE THE TOOL

A power tool will do a job better and safer operating at the rate for which it was designed. **DO NOT** force a tool or an attachment to do a job that it was not designed to do.

**USE PROPER APPAREL**

DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

**SECURE WORK**

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

**DO NOT OVERREACH**

Keep proper footing and balance at all times by not overreaching.

**DISCONNECT TOOLS**

Power tools should always be disconnected before servicing, adjusting or when changing accessories, such as blades, bits, cutters, and the like.

**MAINTAIN TOOLS WITH CARE**

Keep tools clean and maintained for the best and safest performance. Always follow maintenance instructions and examine the machine before use. If any abnormal vibrations or noises occurs, turn off machine immediately and have the problem corrected before further use.

**REMOVE ADJUSTING KEYS AND WRENCHES**

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

**KEEP WORK AREA CLEAN**

Cluttered work areas and benches invite accidents. Keep area around machine clear of obstructions which could cause persons to fall.

**DO NOT USE IN DANGEROUS PLACES**

DO NOT operate equipment in dangerous or hazardous environments. **DO NOT** use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

**USE RECOMMENDED ACCESSORIES**

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury. Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.



ALWAYS ensure that the machine is on level ground before using.

**NEVER STAND ON THE TOOL**

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

**TRANSPORT**

When loading or unloading the machine, use caution. Remove the blade prior to hoisting, loading and transporting the machine.

**CHECK FOR DAMAGED PARTS**

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced. Always check the machine for loose bolts before starting.

**DIRECTION OF ROTATION**

A blade or cutter should always be installed so that rotation is in the direction of the arrow imprinted on the side of the blade or cutter. It should correspond with the rotational direction of the motor. Always feed work into a blade against the direction of rotation.

**NEVER LEAVE A TOOL UNATTENDED**

TURN POWER OFF - Do not leave a tool until it comes to a complete stop. **ALWAYS** turn a power tool **OFF** when leaving the work area, or, when a cut is finished.



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. Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.



NEVER use this machine with any cutter designed for woodworking.



NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.



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



On belt driven equipment, overtensioning of belts will result in premature crank and/or bearing failure.



Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.



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



DO NOT lend or rent this equipment without including the Owner's Manual and the Engine/Motor Manufacturer's Manual.



Check the chemical properties of the material to be cut/grinded and follow all EPA/OSHA Regulations.

SILICA DUST 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 respiratory precautions.

Use appropriate NIOSH-approved respiratory protection where dust hazard may occur. Paper masks or surgical masks without a NIOSH approval number are not recommended because they do little to protect the worker. For more information about respirator programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at:
<http://www.cdc.gov/niosh/topics/respirators>

Observe OSHA regulations for respirator use (29 C.F.R. §1910.134).
Visit <http://www.osha.gov> for more information.

CALIFORNIA PROPOSITION 65 MESSAGE

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica from bricks, cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:
<http://www.osha.gov/dsg/topics/silicacrystalline/index.html>
<http://www.cdc.gov/niosh/docs/96-112/>
<http://oehha.ca.gov/prop65/law/P65law72003.html>
<http://www.dir.ca.gov/Title8/sub4.html>

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.



WARNING

Sawing, grinding and drilling generate dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200).

ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS

In order to prevent electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

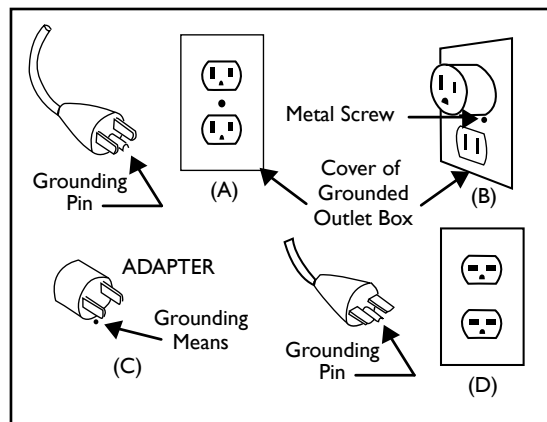


WARNING

In case of a malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This tool is equipped with an electric cord which has an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- **DO NOT** modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- Repair or replace a damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A. The tool has a grounding plug that looks like the plug illustrated in Sketch A. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, plug, and the like, extending from the adapter, must be connected to a permanent ground, such as a properly grounded outlet box.



Circuit and Adapter Information

NOTE: Use of a temporary adapter is not permitted in Canada.

NOTE: If permanently connected this tool should be connected to a grounded metal permanent wiring system; or to a system having an equipment - grounding conductor.

ELECTRIC MOTOR SAFETY

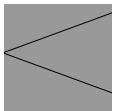
For maintenance care and operation of the electric motor, refer to your electric motor instruction booklet furnished with the electric motor. Protect the electric motor from dust as much as possible and keep ventilating openings clean. Before plugging in the machine, make sure that the outlet voltage is within the voltage marked on the machines's data plate.



CAUTION



DO NOT spray water on the electric motor. **DO NOT** touch the plug with wet hands. To reduce the risk of electrocution, keep all connections dry and off the ground.



DO NOT operate electric motor in an explosive environment.



DO NOT EXPOSE TO RAIN

DO NOT expose to rain or use in damp locations.



WARNING



If operating the equipment in damp locations is unavoidable, **ALWAYS** use a Ground Fault Circuit Interrupter, **ALWAYS** wear rubber gloves and footwear in damp conditions.



DO NOT abuse the cord. Never use the cord to carry the equipment or to pull the plug from the outlet. Keep the cord away from heat, sharp edges, and moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.



WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground. A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for this machine. Receptacles are available having built-in GFCI protections and may be used for this measure of safety. When using an extension cord, GFCI should be installed closest to the power source, followed by the extension cord and lastly, the machine.



WARNING

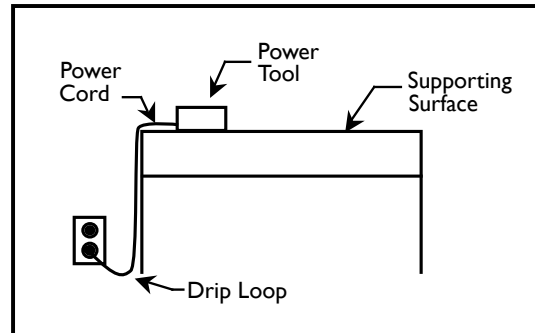
The water pump requires a GFCI. To reduce risk of electrical shock when operating the machine with the pump plugged into the 3-pole receptacle on the motor, connect the machine to a GFCI outlet. See the pump manual and informational tags enclosed separately for all pump information.

**WARNING**

To avoid the possibility of the appliance or plug receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping into the receptacle or plug. A "drip loop," shown in the picture below, should be arranged by the user to properly position the power cord relative to the power source. Use the drip loop as a way to prevent GFCI and plug from getting wet.

The "drip loop" is that part of the cord below the level of the receptacle (or the connector, if an extension cord is used). This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

If the plug or receptacle gets wet, **DO NOT** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.



Drip Loop Information

**WARNING**

Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. **DO NOT** use damaged extension cords. Examine extension cords before using and replace if damaged. **DO NOT** abuse extension cords and **DO NOT** yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

ALWAYS make certain that the power source required for the electric motor is correct and always use the correct NEMA configuration plug. Motors can burn out when the line voltage falls 10% below the voltage rating of the motor. Failure to use proper voltage will cause the motor to overheat. Make certain that the correct size grounded (3-wires) extension cord is used.

**WARNING**

Use of undersized extension cords result in low voltage to the motor that can result in motor burnout and premature failure. MK Diamond warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords, will be repaired or replaced totally at the customer's expense. There will be no warranty claim.

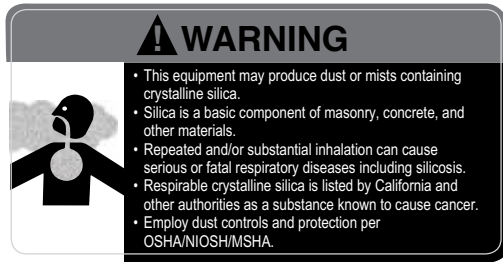
To choose the proper extension cord,

- Locate the length of extension cord needed in the table below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

MOTOR SPECS			EXTENSION CORD LENGTH			
Motor	Voltage	Amps	25'	50'	100'	200'
157801-C	115V 1 Ph	15	14 ga	10 ga	8 ga	6 ga

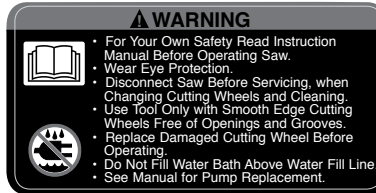
OPERATION & SAFETY DECALS

Safety labels are located on the back of the motor assembly (figure 3). The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. Should any of these decals become unreadable, replacements can be obtained by calling MK Diamond or your dealer for a replacement.



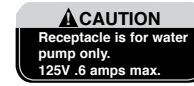
Part # 164202

A



Part # 155806

B



Part # 154822

C



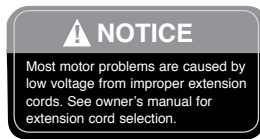
Part # 155678

D



Part # 155038

E



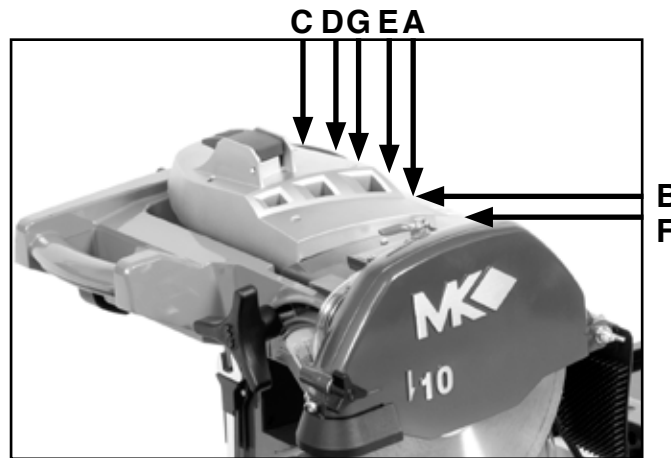
Part # 155672

F



Part # 170480

G



Decal	Location	Description
A	Motor - Back	Warning - Silica
B	Motor - Back	Warning - Read & Follow Operating Instructions
C	Motor - Back	Caution - Receptacle for Water Pump
D	Motor - Back	Caution - Use with Ground Fault Circuit Interrupter
E	Motor - Back	Service/Warranty
F	Motor - Back	Notice - Voltage/Extension Cord
G	Motor - Back	QR Code for Manuals

PRODUCT SPECIFICATIONS

The TX-4 is a versatile tile saw. Operated and used according to this manual, the TX-4 will provide years of dependable service.

MOTOR AND WEIGHT SPECIFICATIONS

Motor and Weight specifications for the TX-4 are listed in the Table below.

VOLTAGE	120V
AMPERAGE	15
FREQUENCY	50-60 Hz
RPM	3,500 RPM
WEIGHT	85 lbs. (39 kg)

BLADE CAPACITY

The TX-4 uses a 10-inch diameter segmented MK Diamond blade with a .06-inch cutting width and 1-inch arbor.

TILE TYPES

The TX-4 can cut a variety of tile types including stone, masonry, and lapidary products.



NOTE

The TX-4 is not designed to cut plastic or metals.

SPRING ASSISTED CUTTING HEAD

The TX-4 is designed with a spring assisted Cutting Head to allow for plunge cutting. The Cutting Head can be locked in any down position when using with smaller blade or profile wheel.

REMOVABLE MOTOR AIR FILTER

The TX-4 is designed with an easy clean motor air filter to extend the life of the motor.

REPLACEABLE MOTOR BRUSHES

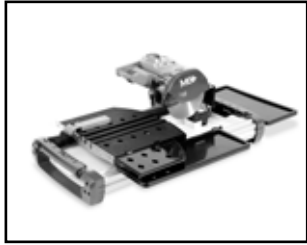
The TX-4 is designed with replaceable motor brushes to extend operating life.

UNPACKING

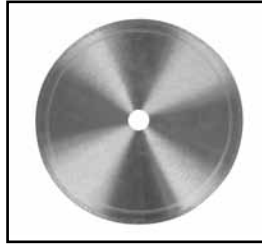
Your TX-4 has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

CONTENTS

If not already done, remove the TX-4 from the carton and place it on a flat surface. Check contents with list below:



1



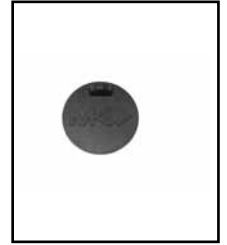
2



3



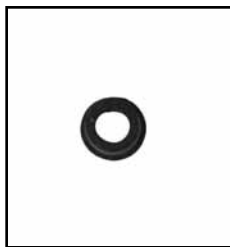
4



5



6



7



8



9



10



11



12



13

ITEM NO.	DESCRIPTION	QUANTITY
1	TX-4	1
2	10" WET CUTTING TILE BLADE	1
3	ADJUSTABLE CUTTING GUIDE	1
4	SIDE CUTTING TABLE	1
5	DRAIN PLUG	1
6	WRENCHES	2
7	GROMMET	1
8	ADAPTER	1
9	WATER PUMP	1
10	SIDE WATER TABLE	1
11	REAR WATER TABLE	1
12	OWNER'S MANUAL	1
13	WARRANTY CARD	1

SETUP AND ADJUSTMENTS



WARNING

ALWAYS disconnect unit from power supply when performing changes or adjustments.

You will need the following tools:

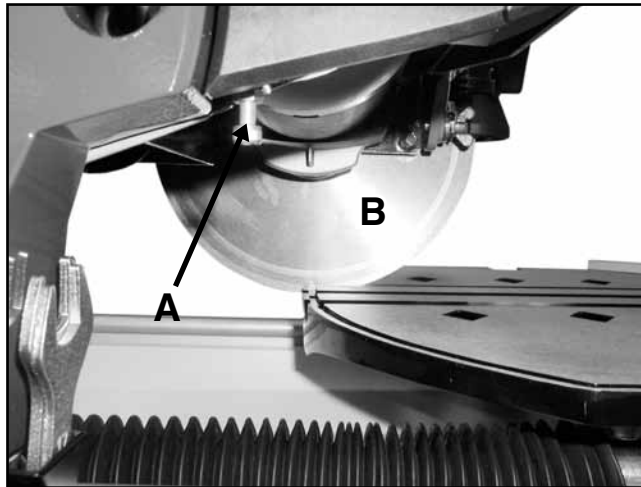
1. Combination Square
2. Hex Nut Wrench Set
3. Phillips Screwdriver

BLADE ALIGNMENTS

The TX-4 has been factory aligned. If any adjustment should occur, refer to steps below for specific adjustments.

BLADE DEPTH ADJUSTMENT

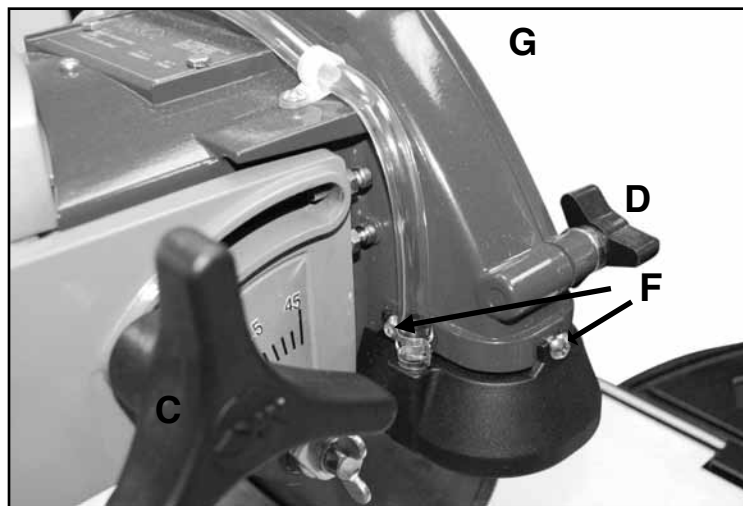
1. Loosen Hex Nut (A) on blade depth adjustment screw.
2. Set Blade (B) approximately 3/16" below the table surface by turning adjustment screw.
Retighten Hex Nut to secure Screw after desired depth is achieved.



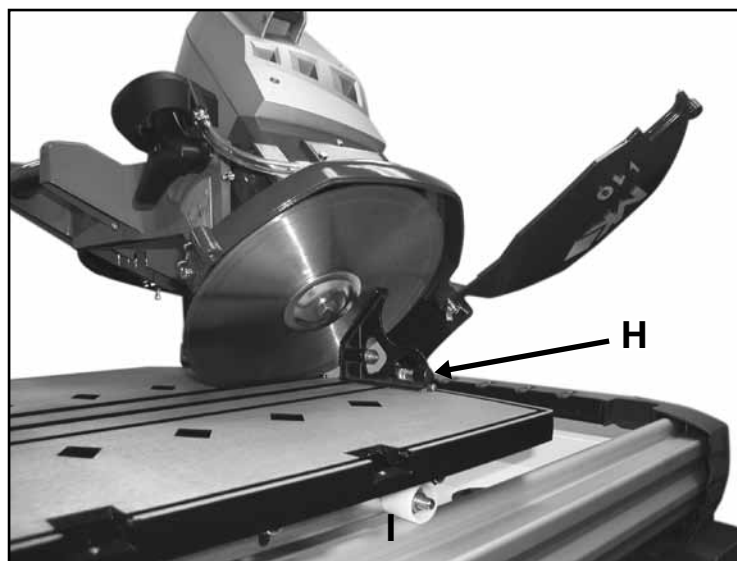
SETUP AND ADJUSTMENTS

A Combination Square (H) is needed for 45° adjustment.

1. Loosen Miter Adjustment Knob (C) and tilt Cutting Head.
2. Remove Outer Blade Guard by turning Outer Blade Guard Release Knob (D) and pushing Outer Blade Guard back.
3. Remove Water Manifold Module (E) by loosening the two Water Module Screws (F).
4. Loosen the Hex Nut on the 45° Adjustment Screw (G).



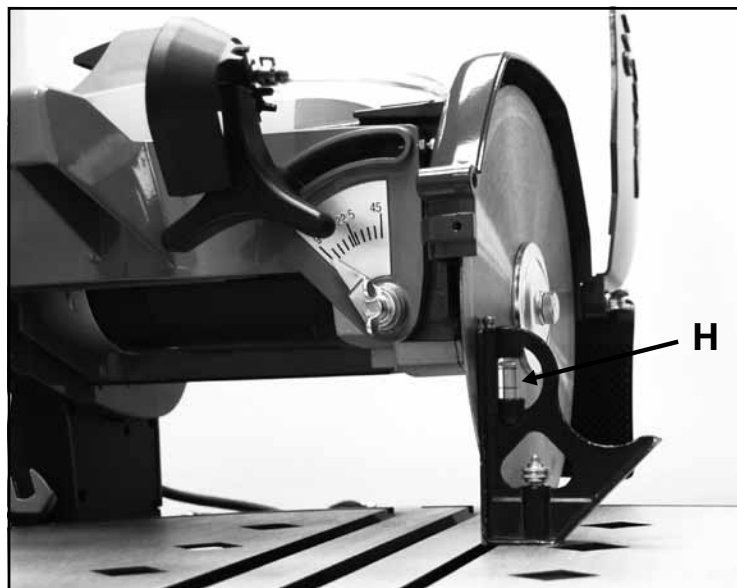
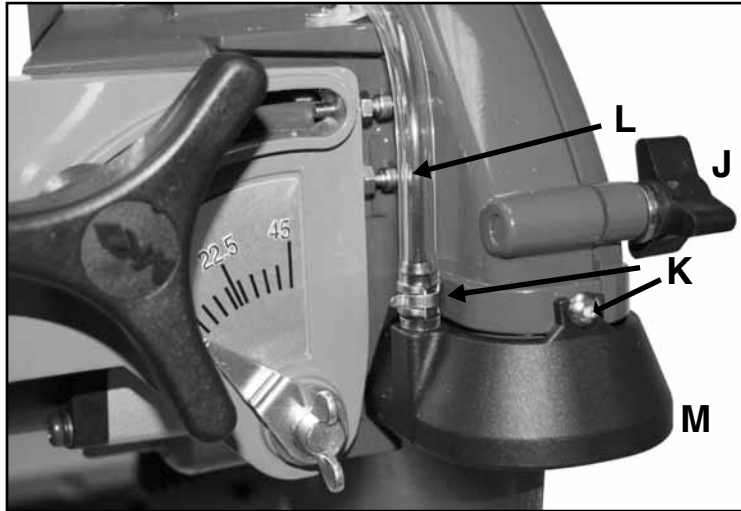
5. Turn 45° Adjustment Screw (G) and set vertical position of Roller Wheel Bracket (I) until Blade is parallel with 45° level on the Combination Square (H).
6. Tighten Hex Nut on the 45° Adjustment Screw (G) to secure Screw and Roller Wheel Bracket (I) in place.



BLADE VERTICAL ADJUSTMENT

A combination square (H) is needed for 45° adjustment.

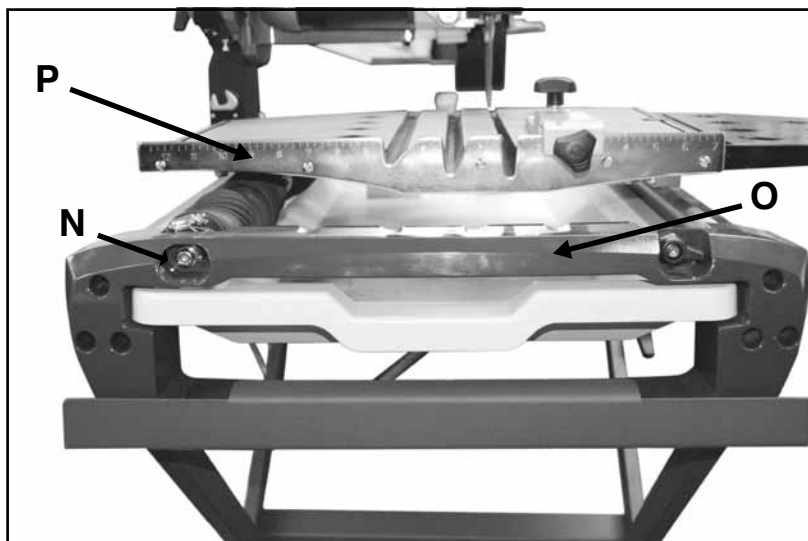
1. Remove Outer Blade Guard by turning Outer Blade Guard Release Knob (J) and pushing Outer Blade Guard back.
2. Remove Water Manifold Module (M) by loosening the two Screws (K).
3. Loosen the Hex Nut on the Vertical Adjustment Screw (L).



LINEAR GUIDE BAR ADJUSTMENT

A combination square is needed for 45° adjustment. This adjustment is to ensure consistency of material cutting width.

1. Loosen Guide Bar Adjustment Screws (N) on front and rear End Caps (O).
2. Tap Guide Bar lightly until Table Fence (P) is perpendicular with the blade by using a combination square.
3. Tighten up Screws and re-check that the Blade is square with the Table Fence (P).



WATER PUMP PREPARATION



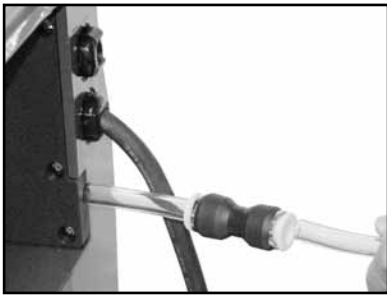
(A)
Press one end of the Cooling Transfer Tube into the Water Pump Discharge Fitting

CONNECTING THE WATER PUMP

- ⚠ WARNING**
1. To prevent the possibility electrical shock, the TX-4 MUST be de-energized when connecting the Water Pump.
 2. To prevent the possibility of electrical shock, use only MK Diamond qualified replacement parts

NOTE:

To prevent pump damage, the Water Pump must be disconnected if cutting with a Dry Blade.



(A)
Connect the Cooling Transfer Tube into coupling attached to saw.



(B)
Connect the Water Pump power cord to the connection found on the back of the motor

WATER PUMP SETUP FOR OPERATION

The Water Pump can be setup for operation in two ways, External Water Source or Re-circulation.

NOTE: If using a dry blade for operation, DO NOT connect the water pump.

EXTERNAL WATER SOURCE

This is the preferred method of cooling.



(A)

Remove the Drain Plug. Place empty container under hole for water drainage



(B)

Place the Water Pump in an external container and fill until water completely covers the Water Pump suction

RE-CIRCULATION

NOTE: When using the re-circulation method, the water should be changed often for longer pump life.



(A)

Ensure the Drain Plug is installed in the Water Basin



(B)

Place the Water Pump in the back of the Water Basin

CAUTION

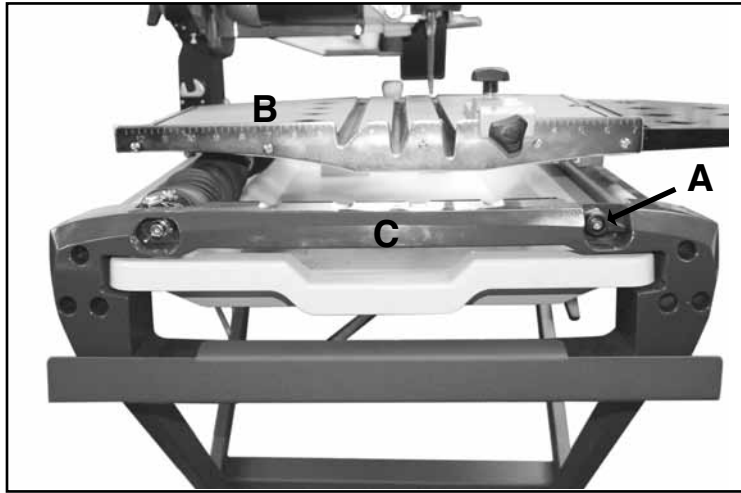
1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing its intended function. Check for binding and alignment of moving parts. Check for damaged, broken, or missing parts.
2. Verify the On/Off switch is in the OFF position.
3. Before connecting the TX-4 to a power supply, be sure the voltage, cycle and phase of the job site power source meet the requirements.
4. **ALWAYS** ensure there is a sufficient amount of clean water in the Water Pan or external container and the Filter is submerged in the water to ensure proper performance and to prevent Pump damage.

**WARNING**

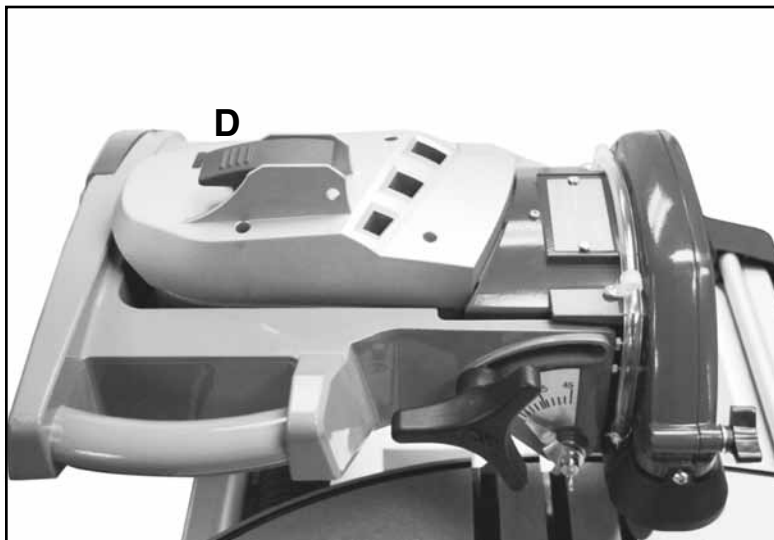
ALWAYS disconnect unit from power supply when performing changes or adjustments.

SAW SETUP

1. Rotate Table Lock (A) clockwise to release Table (B) from lock position.



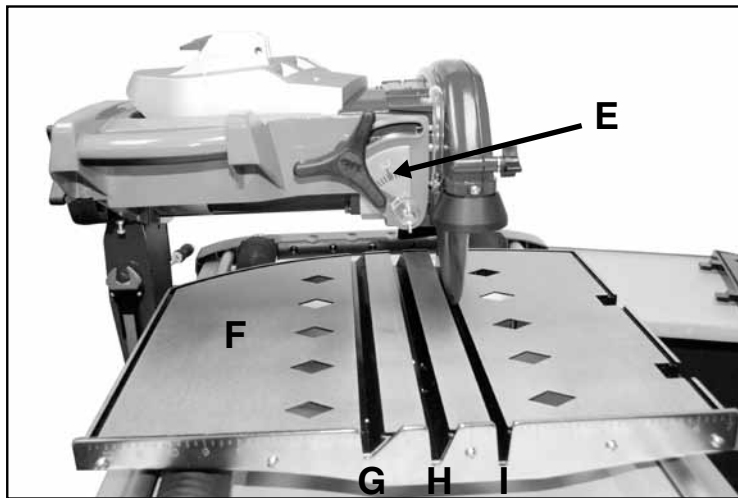
2. Turn on equipment with the Toggle Switch (D) to make water is delivered through Nozzles.

**NOTICE**

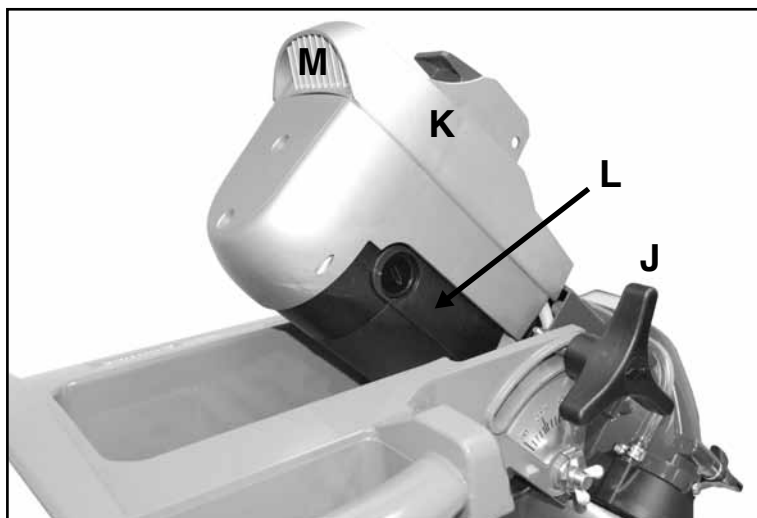
Move Table (B) all the way to the Front End Cap (C), hold Table (B) in place and rotate Table Lock (A) counterclockwise to lock Table (B) in place for transportation.

MITER CUTS

1. The Table (F) has 45° (G), 22.5° (H) and 90° (I) clearance slots built-in. 90° and 45° are pre-set at the factory. 22.5° miter can be obtained by aligning the Pointer to 22.5 mark on the Miter Index (E). All other angular cuts can be obtained by raising the work up. Make sure the Blade will clear the Table before operations.

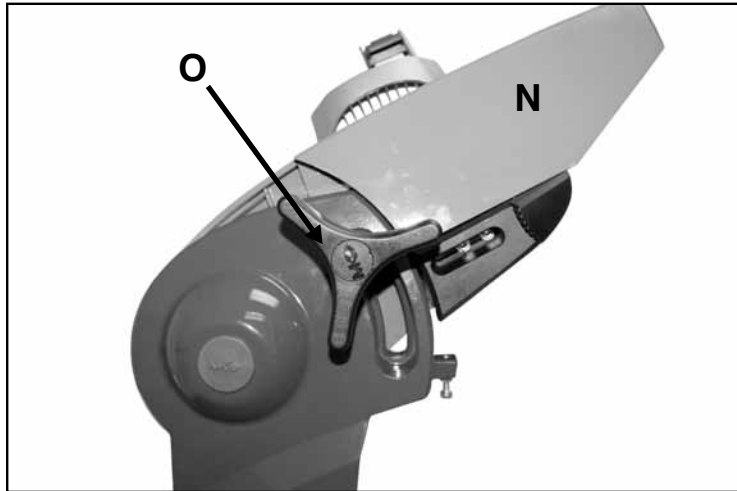


2. Move the Table (F) toward the front of the Saw so that the Blade does not interfere with the Table when setting up the Cutting Head.
3. To perform miter cuts, loosen the Miter Adjustment Knob (J) and lift Air Flow Module (K) with the Air Flow Module Handle (M) located in the rear of the Upper Air Flow Module (K).
4. Tilt Motor Assembly (L) to desired degree using the Miter Index (E).
5. Tighten Miter Adjustment Knob (J) to hold Motor Assembly (L) in position.

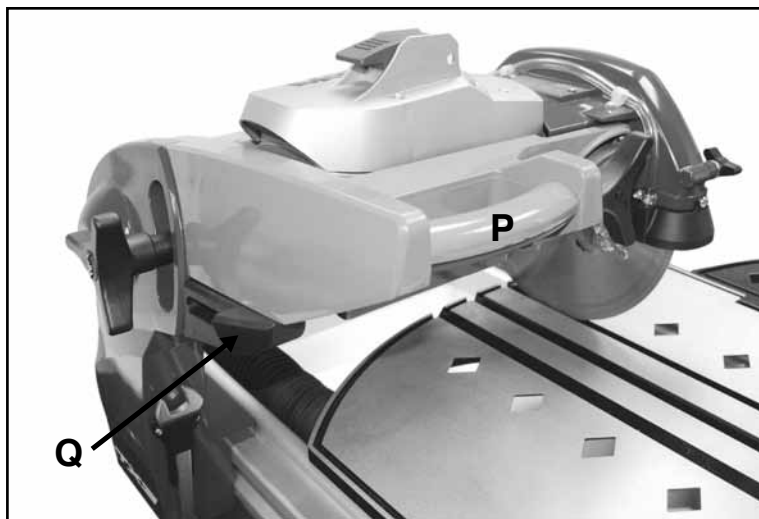


PLUNGE CUTS

1. Loosen Cutting Head Knob (O) so that the Cutting Head Assembly (N) will swing upward.
2. Shift Plunge Lock Lever (Q) forward.
3. Push Cutting Head Handle (P) downward to perform plunge cuts.



4. Shift Plunge Lock Lever (Q) back while Cutting Head Assembly (N) is at uppermost position.
5. Bring Cutting Head Assembly (N) down to stop on the Plunge Lock Lever (Q).
6. Tighten Cutting Head Knob (O) for normal operations.

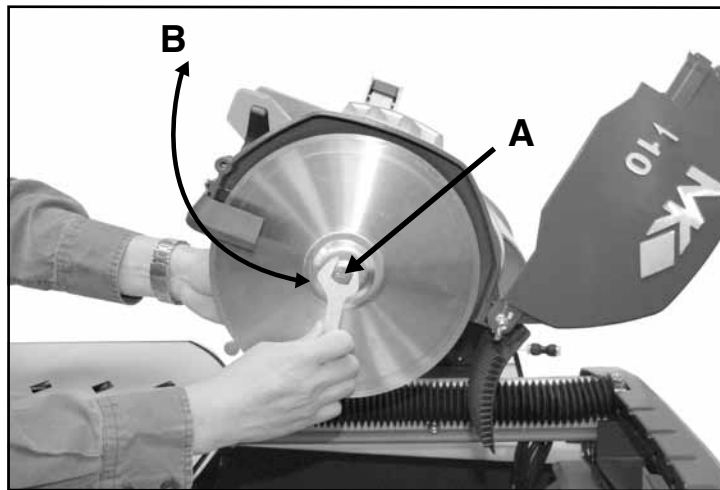


**WARNING**

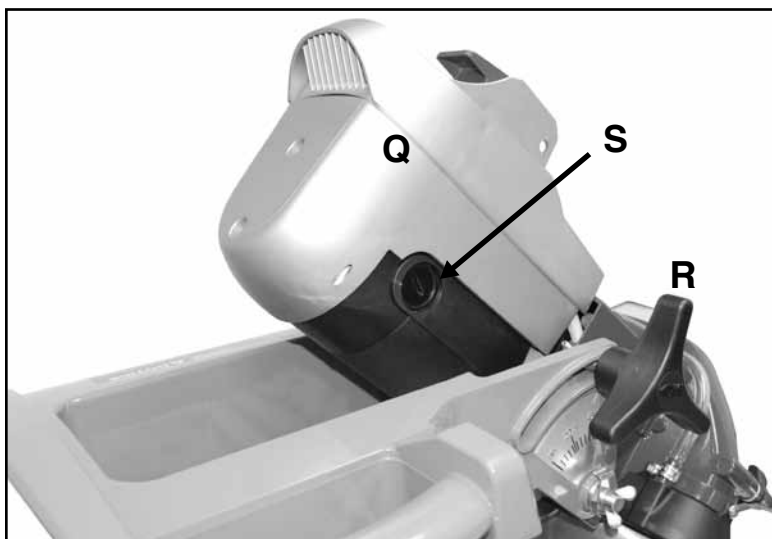
ALWAYS disconnect unit from power supply when performing changes or adjustments.

BLADE REPLACEMENT

1. Hold Wrench over two flats on Motor Shaft on the inner side of the Blade.
2. Rotate Wrench (B) on the outer side of Blade counterclockwise to loosen and clockwise to tighten the Blade Screw (A).

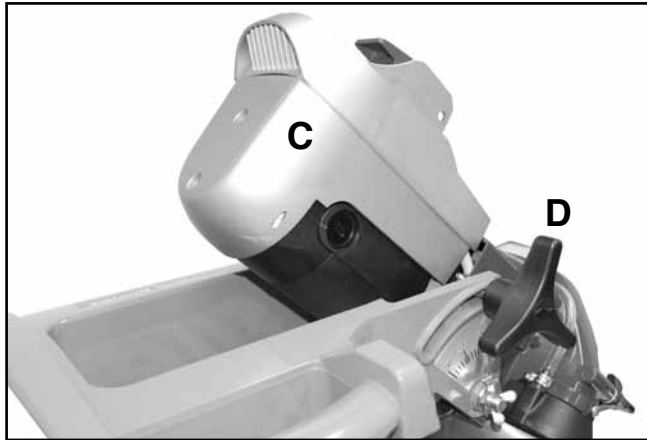
**MOTOR BRUSHES REPLACEMENT**

1. Tilt Motor Assembly (Q) at 45° and tighten Miter Adjustment Knob (R) to hold Motor Assembly in place.
2. Remove Brush Caps (S) on both sides of Motor.
3. Replace Brushes and reinstall Brush Caps (S).

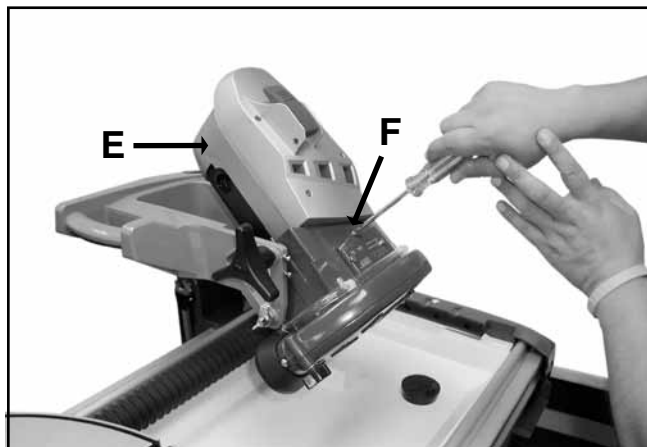


FILTER REPLACEMENT

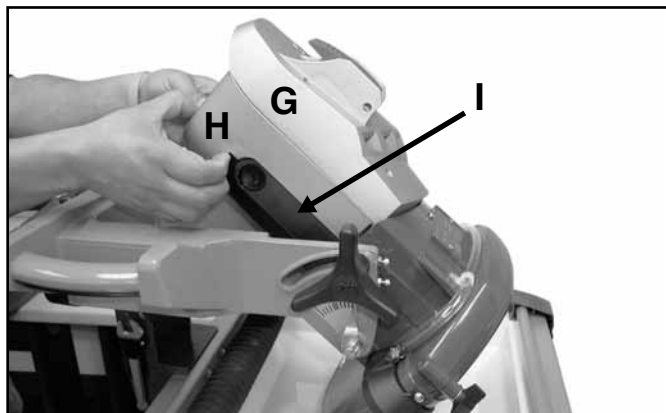
1. Tilt Motor Assembly (C) at 45° and tighten Miter Adjustment Knob (D) to hold Motor Assembly (C) in place.



2. Remove one screw, which secures Lower Air Flow Module (E) through Inner Blade Guard (F) with a Phillips screwdriver.

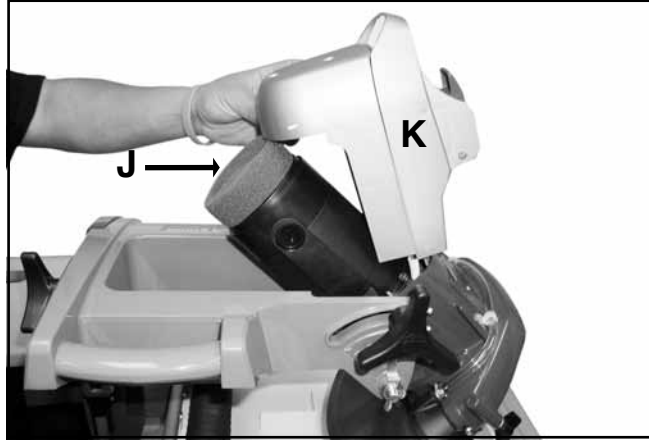


3. Pull Lower Air Flow Module (H) backward to separate Upper and Lower Air Flow Module from Motor (I).



FILTER REPLACEMENT CONTINUED

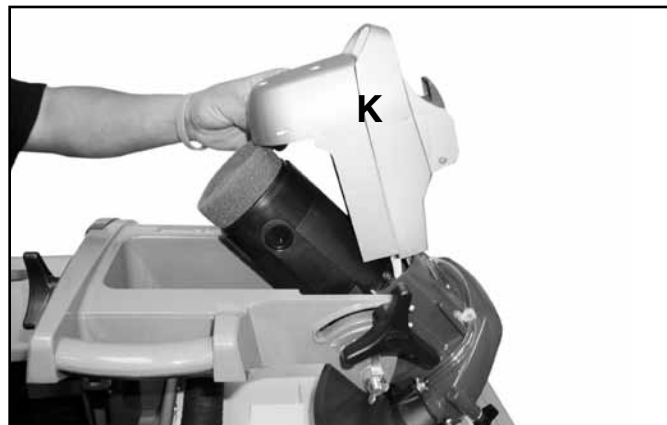
4. Lift Air Flow Module (K) up to remove Filter (J). Place a clean Filter onto Spacers (L) through holes in the Filter.



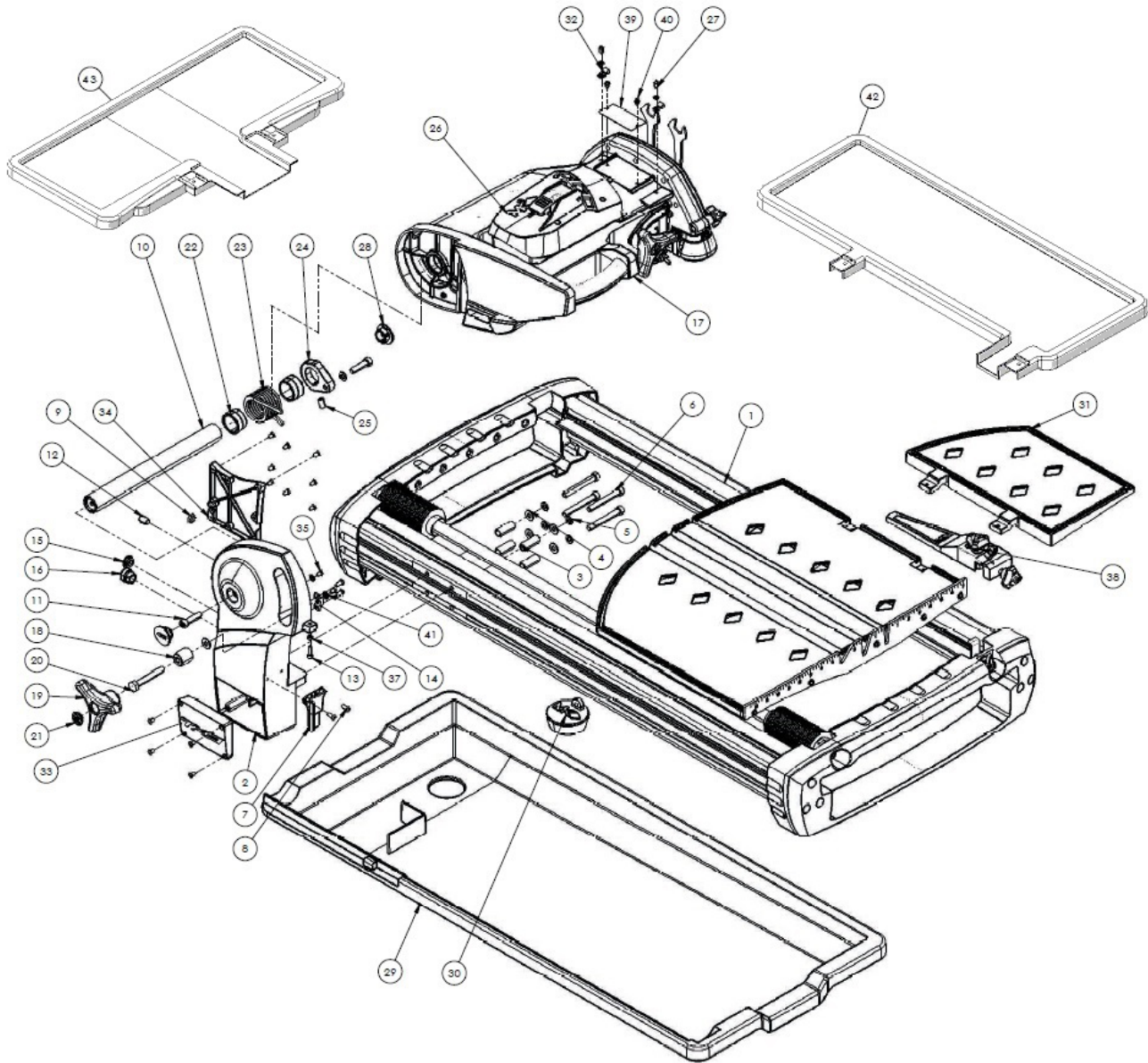
5. Move Air Flow Module (K) over the Filter.



6. Align holes in Lower Air Flow Module with Spacers (L). Push Air Flow Module (K) back onto Spacers (L).



PARTS LIST - ASSY, FINAL - P/N 171231

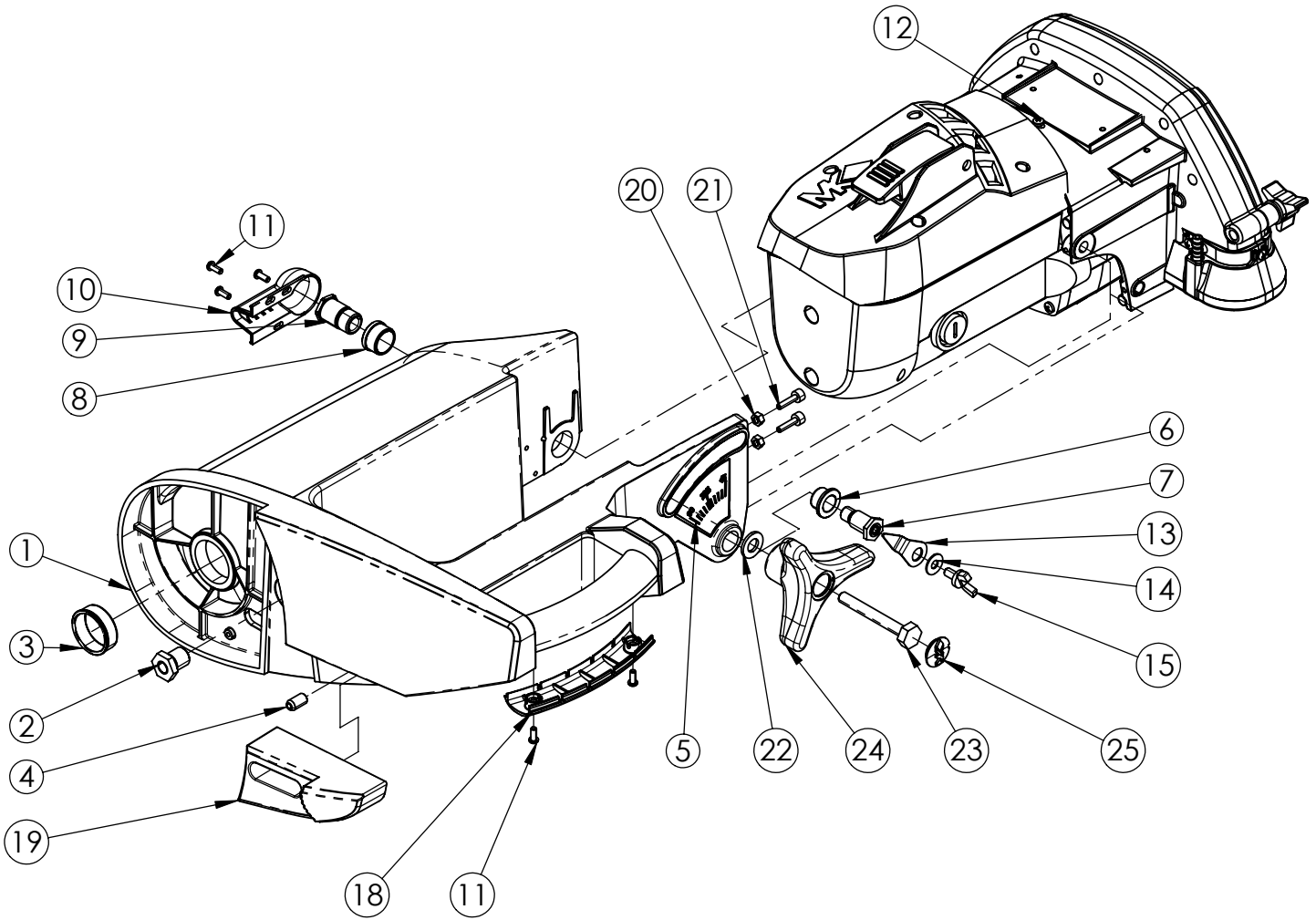


ITEM NO.	DESCRIPTION	PART #	QTY.
1	ASSY, LOWER FRAME	171357	1
2	POST	164843	1
3	SPACER, POST MOUNTING	164839	4
4	WASHER, FLAT, M8	164855	5
5	WASHER, SPLIT LOCK, M8	164860	5
6	SCREW, SOCKET HD CAP, M8 X 70 MM	165301	4
7	HOLDER, WRENCH	164669	1
8	SCREW, PAN HD PHIL, M4 X 12 MM	164778	4
9	O-RING, BUNA-N, .500 X .094	165028	1

PARTS LIST - ASSY, FINAL - P/N 171231

ITEM NO.	DESCRIPTION	PART #	QTY.
10	SHAFT, PIVOT	166686	1
11	SCREW, SOCKET HD CAP, M5 X 35 MM	165311	2
12	SCREW, SOCKET HD SET, M10 X 6 MM	166680	1
13	SCREW, SOCKET HD CAP, M5 X 18 MM	166675	1
14	CLAMP, CABLE	164759	1
15	CAP, POWER CORD	166679	1
16	BUSHING, STRAIN RELIEF	164725	1
17	ASSY, CUTTING HEAD	171354	1
18	SPACER, POST KNOB	166657	1
19	KNOB, TRI	166312	1
20	SCREW, HEX HD CAP, M8 X 65 MM	165318	1
21	CAP, TRI KNOB	166311	1
22	SPACER, SPRING	166684	2
23	SPRING, TORSION	164770	1
24	RETAINER, SPRING	164794	1
25	SCREW, SOCKET HD SET, M8 X 16 MM	166677	1
26	COVER, CUTTING HD	164847	1
27	SCREW, PAN HD PHILIP, M4 X 10 MM	164777	10
28	CAP, MK LOGO	166656	2
29	PAN, WATER	171347	1
30	PLUG, DRAIN	159858	1
31	ASSY, SIDE TABLE	165317	1
32	CLAMP, TUBE	164698	2
33	COVER, OUTER POST	164766	1
34	COVER, INNER POST	164771	1
35	SCREW, PAN HD PHIL, M4 X 8 MM	164776	14
36	WASHER, FLAT, M4	164795	2
37	NUT, HEX, M5	157405	1
38	ASSY, RIP GUIDE	165356	1
39	SERIAL TAG	157500-TX4	1
40	SCREW, QUICK DRIVE, #8 X 1/4	162850	2
41	WASHER, TOOTH LOCK EXT, M4	165352	2
42	WATER TRAY, RIGHT	171348	1
43	WATER TRAY, REAR	171349	1

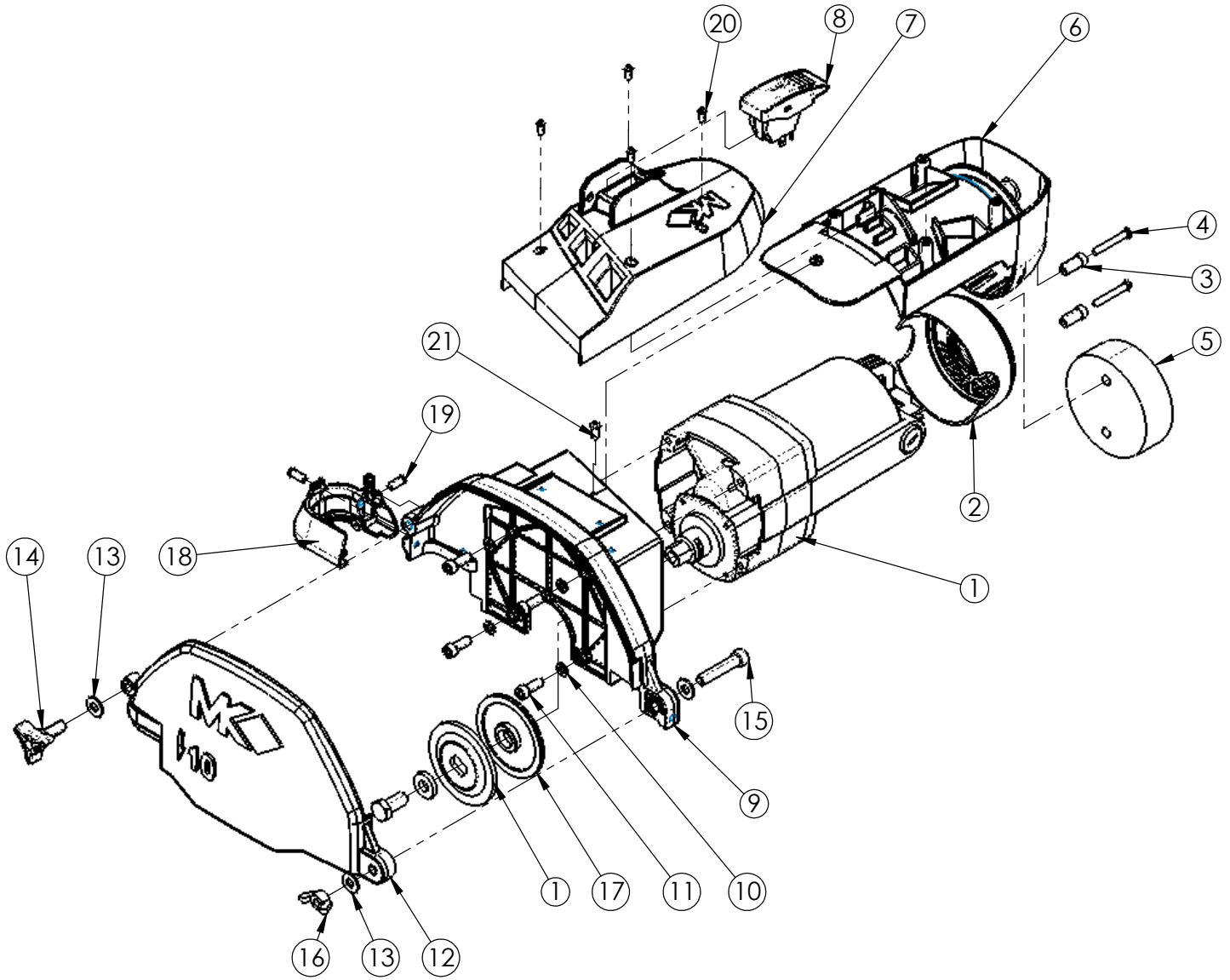
PARTS LIST - ASSY, CUTTING HEAD - P/N 171354



PARTS LIST - ASSY, CUTTING HEAD - P/N 171354

ITEM NO.	DESCRIPTION	PART #	QTY.
1	CUTTING HEAD	164841	1
2	BUSHING, THDED FLANGE	164844	1
3	BUSHING, PIVOT SHAFT	166668	2
4	PLUNGER, BALL, M8 X 15 MM	166669	1
5	INDEX, MITER	165310	1
6	BUSHING, MITERING, LEFT	166659	1
7	STUD, PIVOT	165308	1
8	BUSHING, MITERING, RIGHT	166660	3
9	BUSHING, WIRE ROUTING	164825	1
10	COVER, WIRE	164786	1
11	SCREW, PAN HS PHILIP, M4 X 10 MM	164777	9
12	ASSY, MOTOR	171335	1
13	POINTER	164828	1
14	WASHER, FLAT, 16 X 6.5 X 1 MM	166681	1
15	SCREW, WING, M6 X 12 MM	165323	1
18	COVER, HANDLE	166670	1
19	STOP, BLADE DEPTH	165014	1
20	NUT, HEX, M5	157405	2
21	SCREW, SOCKET HD CAP, M5 X 18 MM	166675	2
22	WASHER, FLAT, M10	160203	2
23	SCREW, HEX HD CAP, M8 X 65 MM	165318	1
24	KNOB, TRI	166312	1
25	CAP, TRI KNOB	166311	1

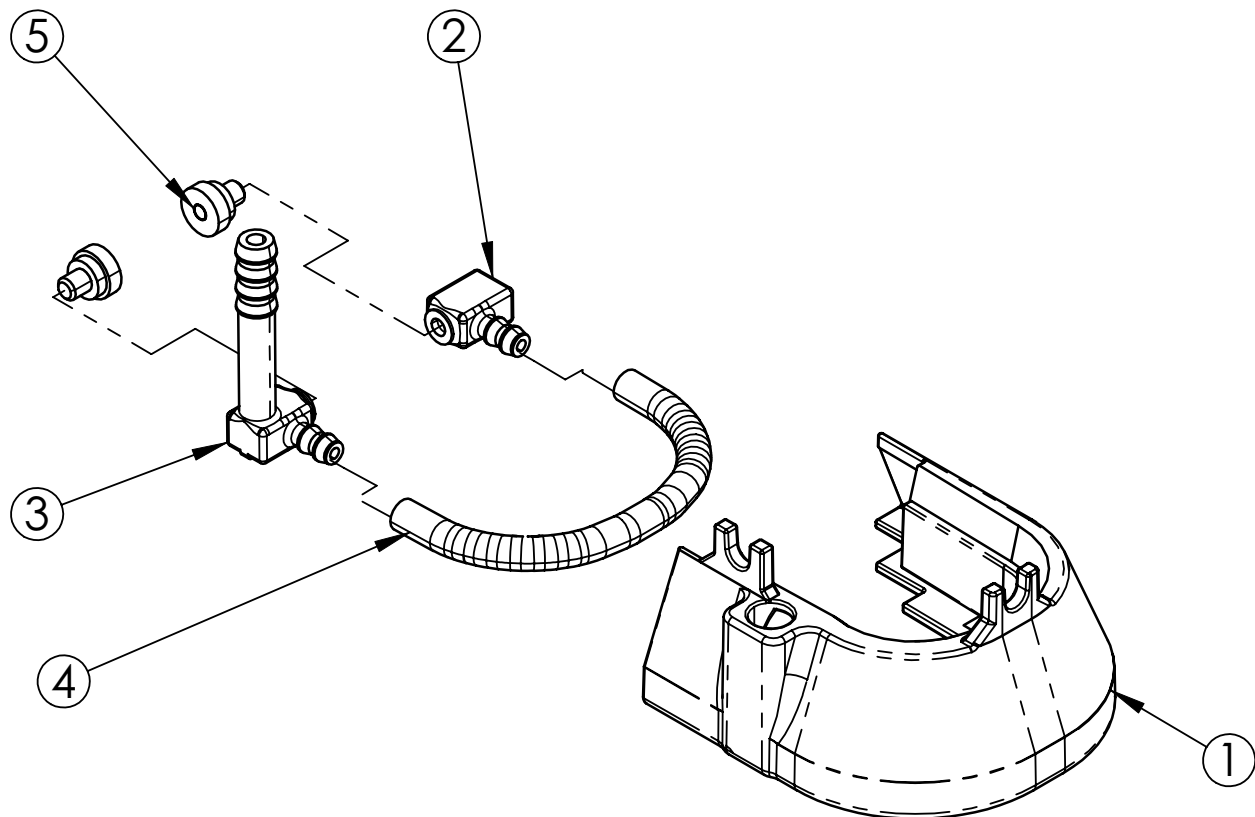
PARTS LIST - ASSY, MOTOR - P/N 171355



PARTS LIST - ASSY, MOTOR - P/N 171355

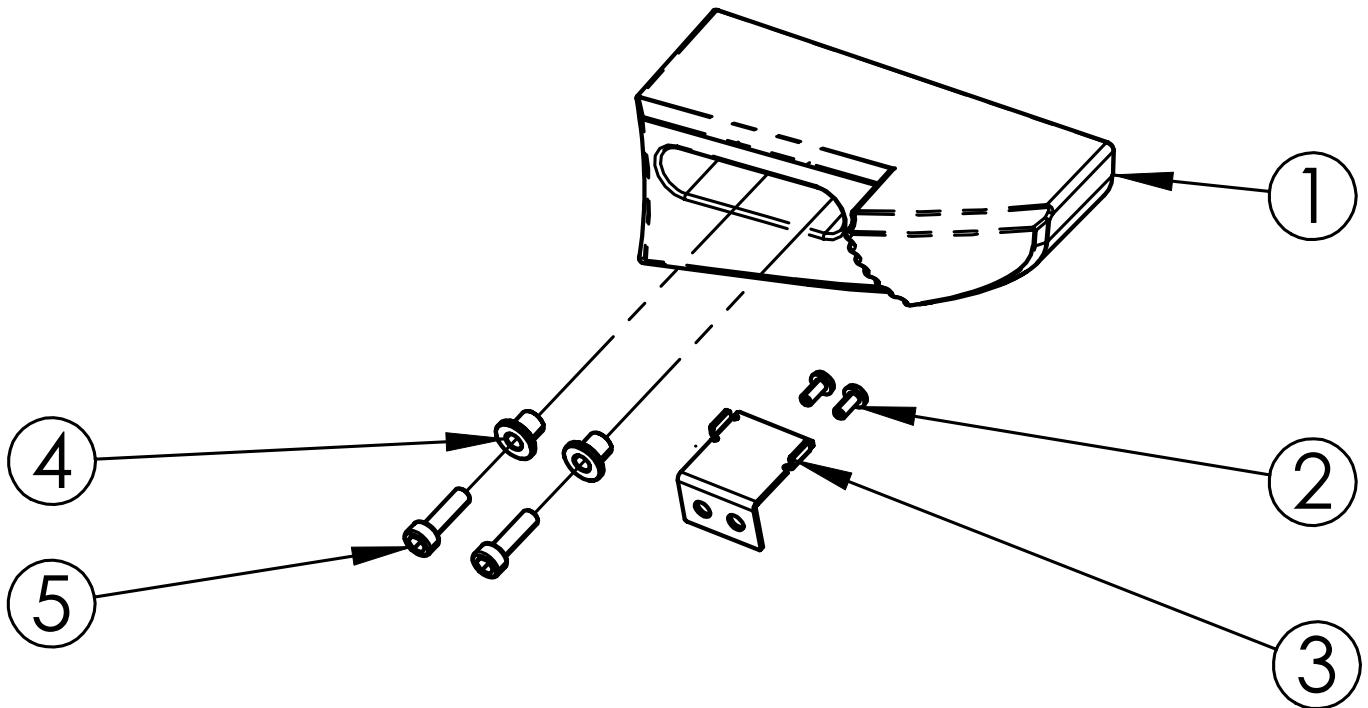
ITEM NO.	DESCRIPTION	PART #	QTY.
1	MOTOR & ACCESSORIES	157801-C	1
2	CAP, MOTOR	157877	1
3	SPACER, FILTER	157879	2
4	SCREW, PAN HD COMB SELF TAPPING, #8 X 1-1/2	158157	2
5	FILTER	157729	1
6	AFM, LOWER	166688	1
7	FILTER, AFM	166687	1
8	SWITCH, TOGGLE	164761	1
9	GUARD, INNER BLADE	164756	1
10	WASHER, SPLIT LOCK, M6	158159	4
11	SCREW, SOCKET HD CAP, M6 X 20 MM	166674	4
12	GUARD, OUTER BLADE	166661	1
13	WASHER, FLAT, M8	164855	3
14	KNOB, 3 PRONG, M8 X 23 MM	166662	1
15	SCREW, SOCKET HD CAP, M8 X 45 MM	165319	1
16	NUT, WING, M8	165320	1
17	FLANGE, INNER	158106	1
18	MODULE, WATER	164782	1
19	SCREW, SOCKET, BUTTON HEAD, M5 X 15 MM	165296	2
20	SCREW, PAN HD PHILLIP, M4 X 10 MM	164777	4
21	SCREW, PAN HD PHIL, M4 X 12 MM	164778	1

PARTS LIST - MODULE, WATER - P/N 171351



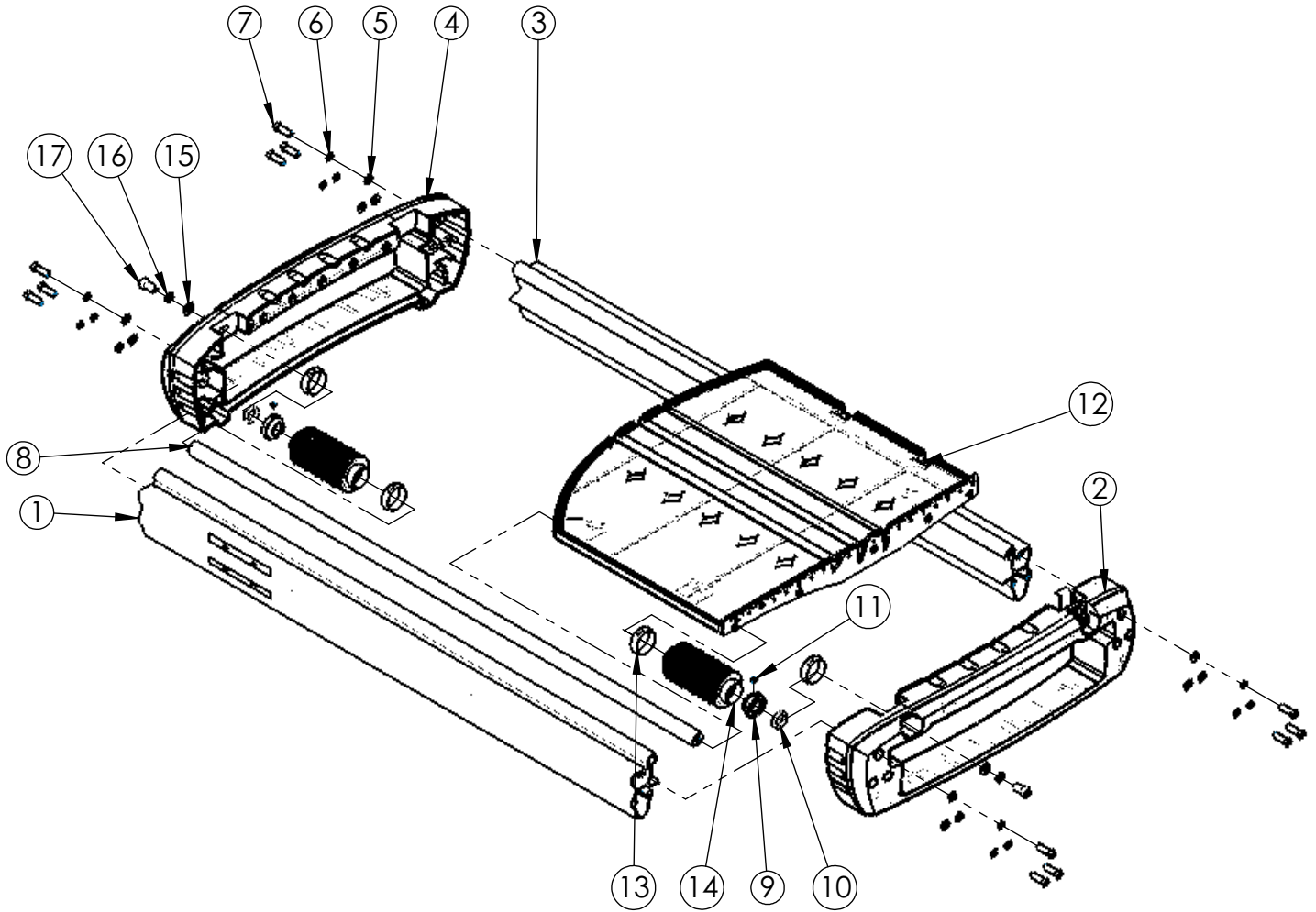
ITEM NO.	DESCRIPTION	PART #	QTY.
1	HOLDER, WATER NOZZLE	166665	1
2	FITTING, END	166667	1
3	FITTING, 90-DEG ELBOW	166666	1
4	HOSE, PVC, 1/4 X 3/16	165314	1
5	NOZZLE, 2.8mm, 10-24 THREAD	164699-280	2

PARTS LIST - STOP, BLADE DEPTH - P/N 171356



ITEM NO.	DESCRIPTION	PART #	QTY.
1	LEVER, PLUNGE LOCK	164848	1
2	SCREW, THD CUTTING, #4 X 1/4	165305	2
3	PLATE, PLUNGE LOCK	165306	1
4	SPACER, PLUNGE LOCK	165307	2
5	SCREW, SOCKET HD CAP, M4 X 14	165309	2

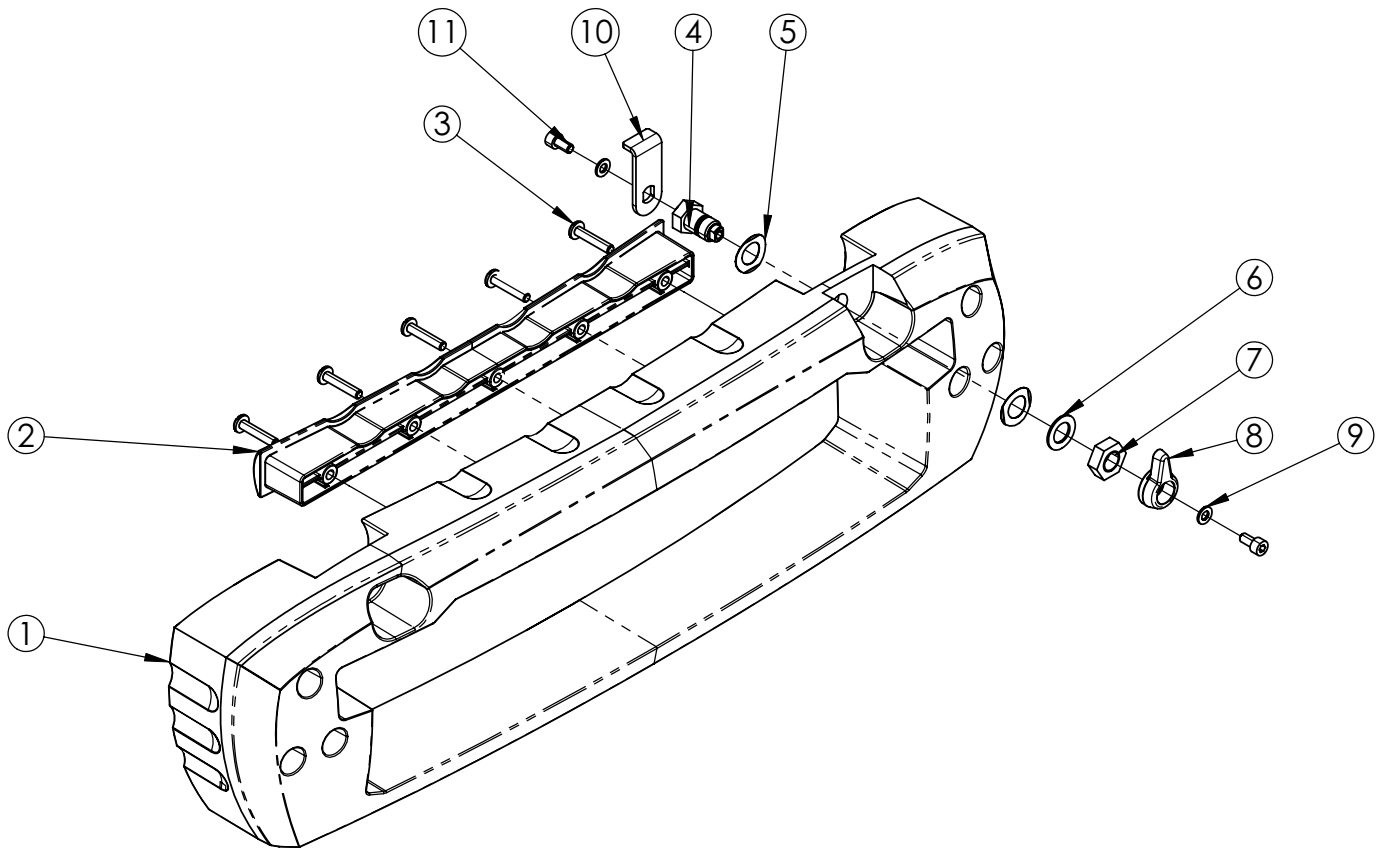
PARTS LIST - ASSY, LOWER FRAME - P/N 171357



PARTS LIST - ASSY, LOWER FRAME - P/N 171357

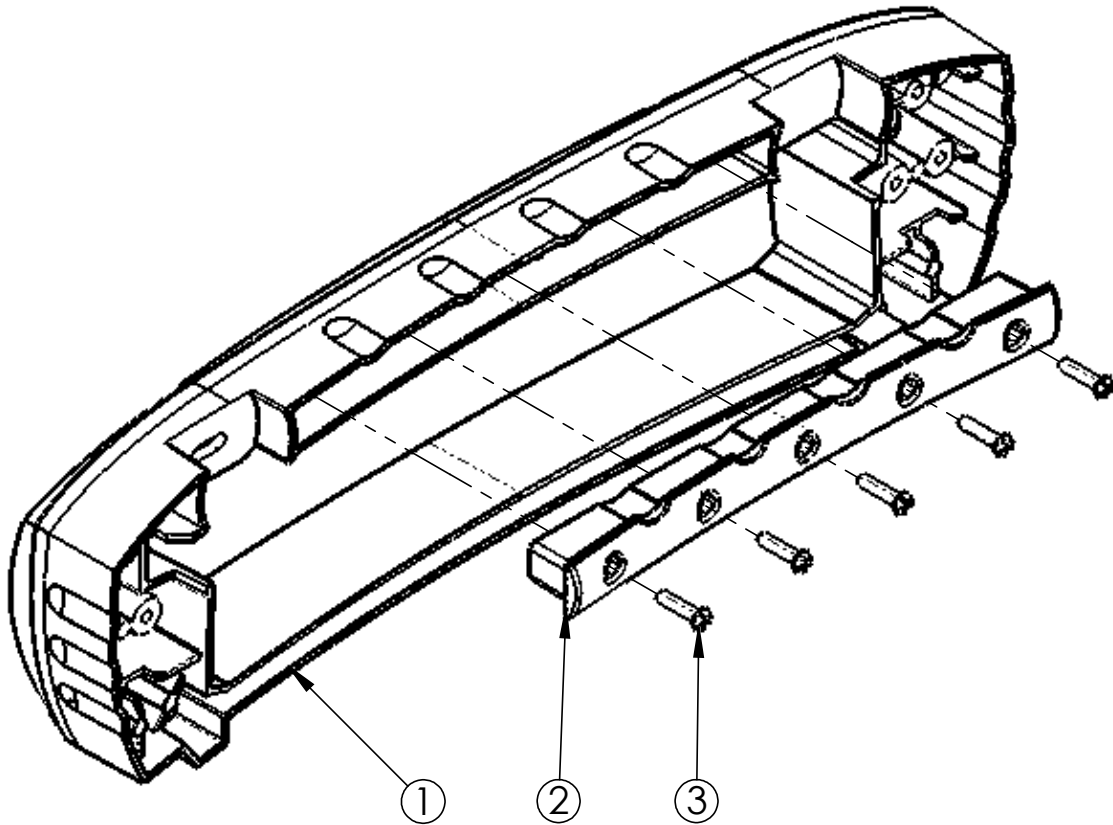
ITEM NO.	DESCRIPTION	PART #	QTY.
1	RAIL, LEFT	166689	1
2	ASSY, FRONT ENDCAP	171358	1
3	RAIL, RIGHT	166690	1
4	ASSY, REAR ENDCAP	171359	1
5	WASHER, FLAT, M6	160215	12
6	WASHER, SPLIT LOCK, M6	158159	12
7	SCREW, SOCKET HD CAP, M6 X 26 MM	158268	12
8	BAR, GUIDE	164793	1
9	COLLAR, BELLOW	162064	2
10	O-RING, BUNA-N, 20 X 2.5 MM	165295	2
11	SCREW, SOCKET HD SET, M5 X 6 MM	165350	2
12	ASSY, TABLE	171352	1
13	CLAMP, HOSE, 11/16 TO 1- 1/4 X 1/2	162065	4
14	BELLOW, RUBBER	162066	2
15	WASHER, FLAT, M8	164855	2
16	WASHER, SPLIT LOCK, M8	164860	2
17	SCREW, SOCKET HD CAP, M8 X 20 MM	160229	2

PARTS LIST - ASSY, FRONT ENDCAP - P/N 171358



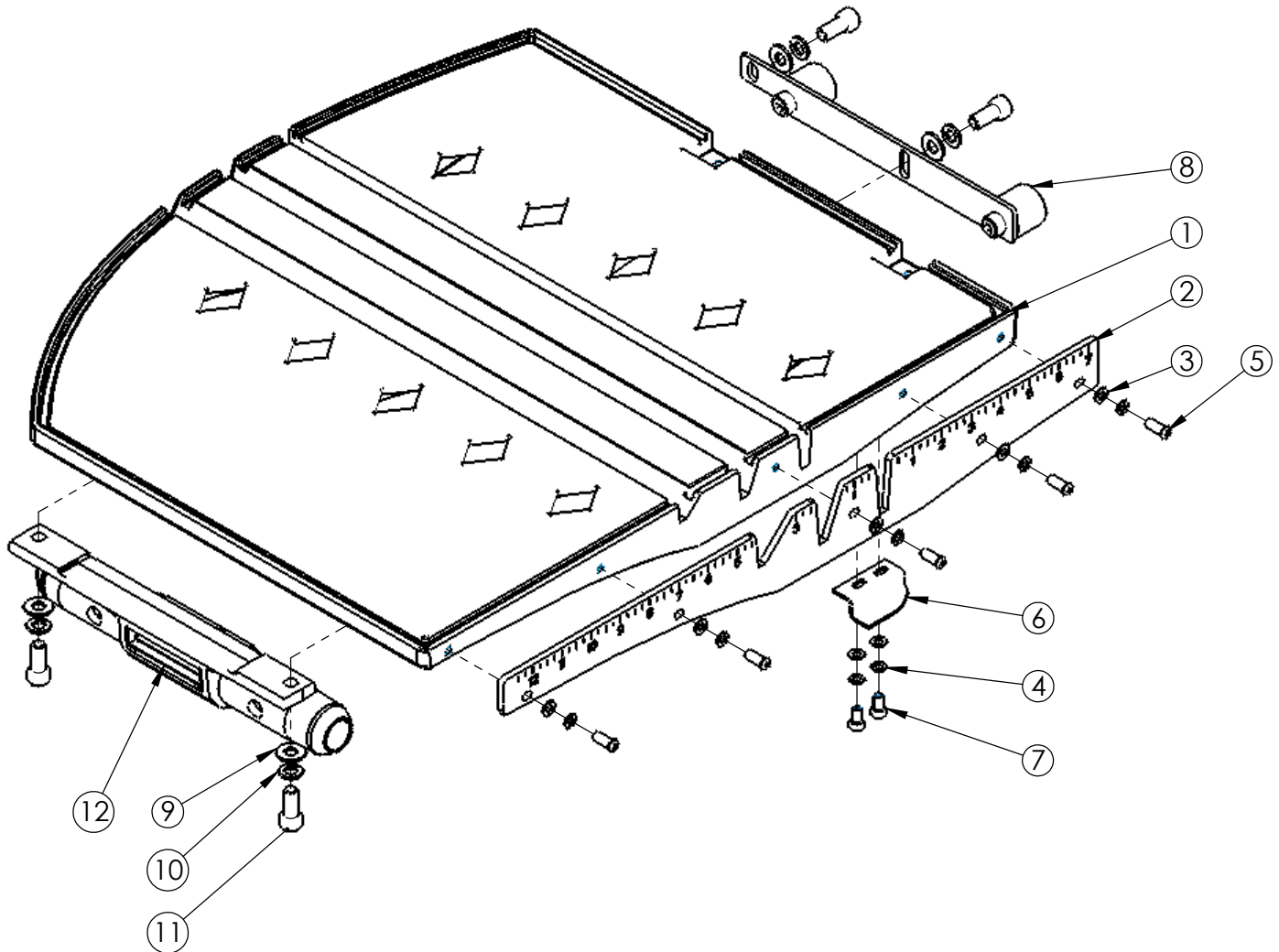
ITEM NO.	DESCRIPTION	PART #	QTY.
1	ENDCAP, FRONT	164802	1
2	COVER, ENDCAP	164846	1
3	SCREW, PAN HD PHILLIP, M5 X 25 MM	160557	5
4	CYLINDER, TABLE LOCK	164836	1
5	WASHER, WAVE, M12	164856	2
6	WASHER, FLAT, M12	166678	1
7	NUT, JAM, M12	164857	1
8	KNOB, TABLE LOCK	164835	1
9	WASHER, FLAT, M5	164858	2
10	LOCK, TABLE	164834	1
11	SCREW, SOCKET HD CAP, M5 X 10 MM	160567	2

PARTS LIST - ASSY, REAR ENDCAP - P/N 171359



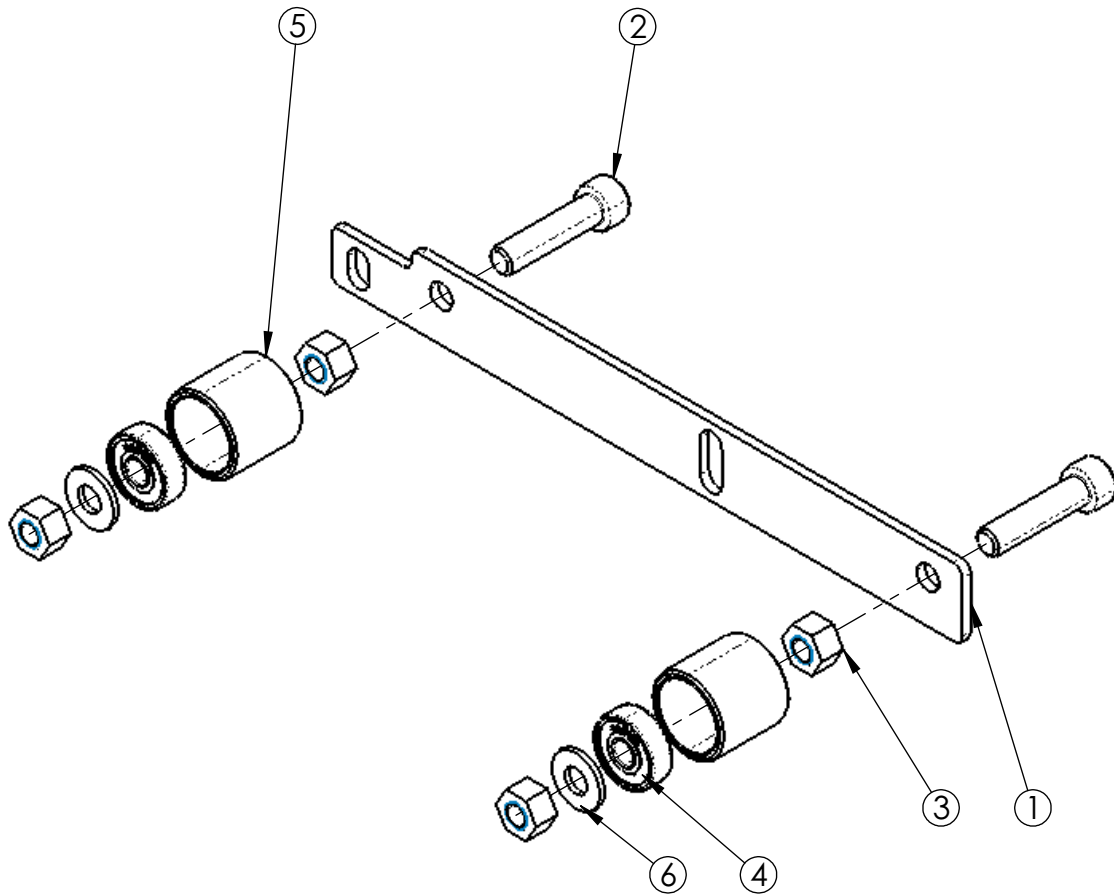
ITEM NO.	DESCRIPTION	PART #	QTY.
1	ENDCAP, REAR	164833	1
2	COVER, ENDCAP	164846	1
3	SCREW, PAN HD PHILLIP, M5 X 25 MM	160557	5

PARTS LIST - ASSY, TABLE - P/N 171352



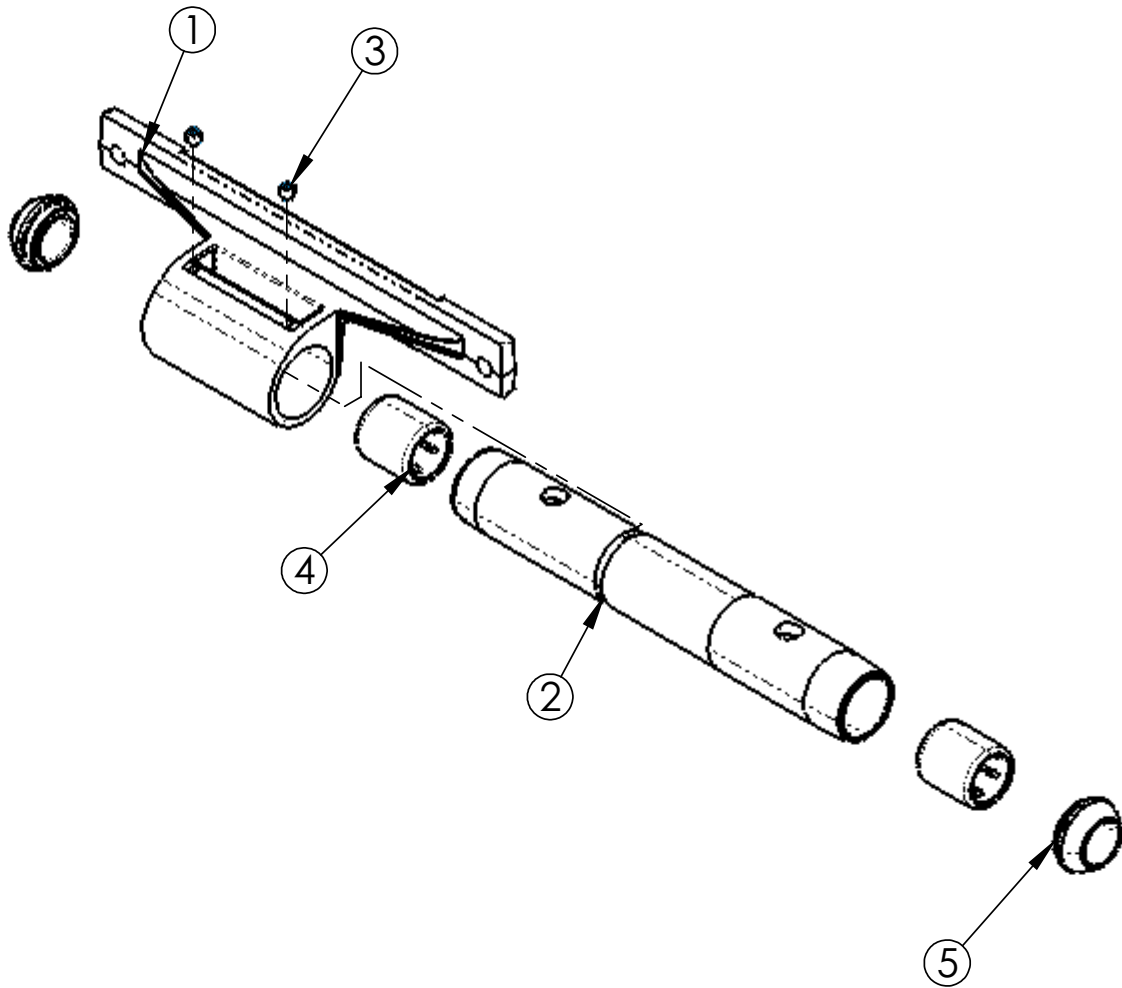
ITEM NO.	DESCRIPTION	PART #	QTY.
1	TABLE	171342	1
2	FENCE, TABLE	171343	1
3	WASHER, FLAT, M5	164858	7
4	WASHER, SPLIT LOCK, M5	164859	7
5	SCREW, SOCKET, BUTTON HEAD, M5 X 15 MM	165296	5
6	PLATE, GUIDE, TABLE LOCK	164837	1
7	SCREW, SOCKET HD CAP, M5 X 10 MM	160567	2
8	ASSY, ROLLER WHEEL BRACKET	165300	1
9	WASHER, FLAT, M8	164855	4
10	WASHER, SPLIT LOCK, M8	164860	4
11	SCREW, HEX HD CAP, M8 X 22 MM	171345	4
12	ASSY, LINEAR BEARING	165299	1

PARTS LIST - ASSY, ROLLER WHEEL BRACKET - P/N 165300



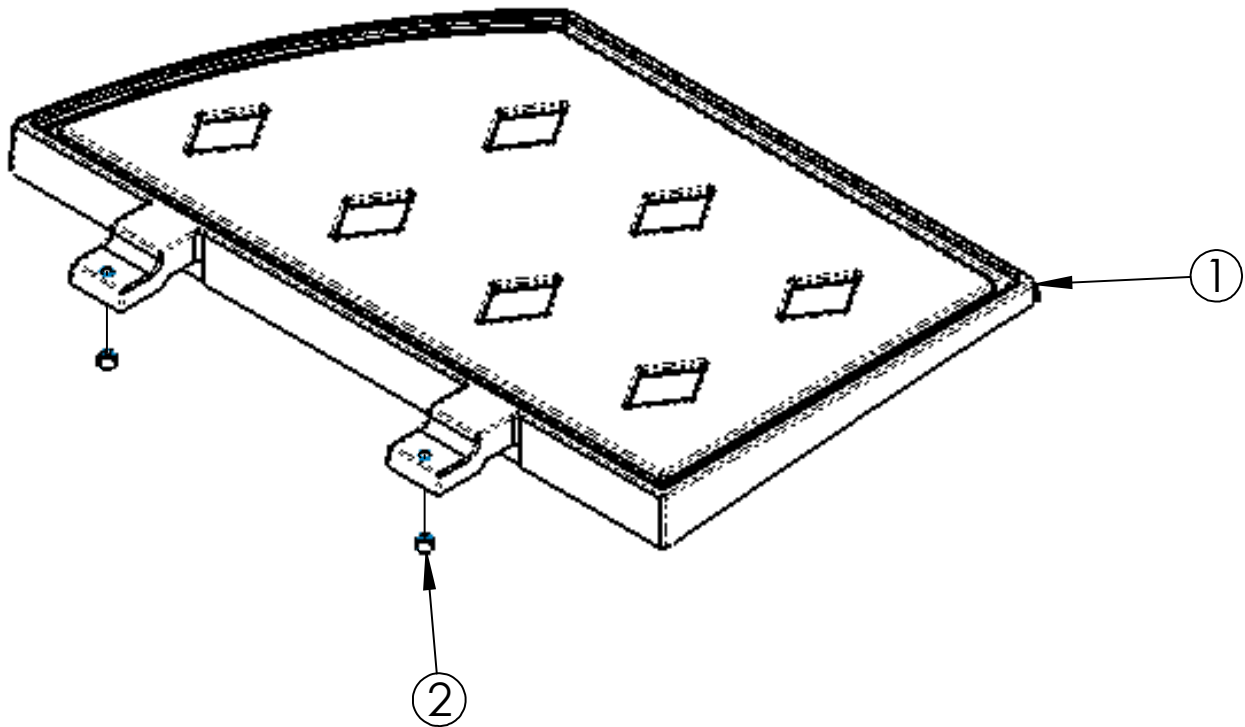
ITEM NO.	DESCRIPTION	PART #	QTY.
1	BRACKET, ROLLER WHEEL	164730	1
2	SCREW, SOCKET HD CAP, M5 X 35 MM	165311	2
3	NUT, HEX, M8	165030	4
4	BEARING, BALL, 608AS	166683	2
5	WHEEL, ROLLER	166672	2
6	WASHER, FLAT, M8	164855	2

PARTS LIST - ASSY, LINEAR BEARING - P/N 165299



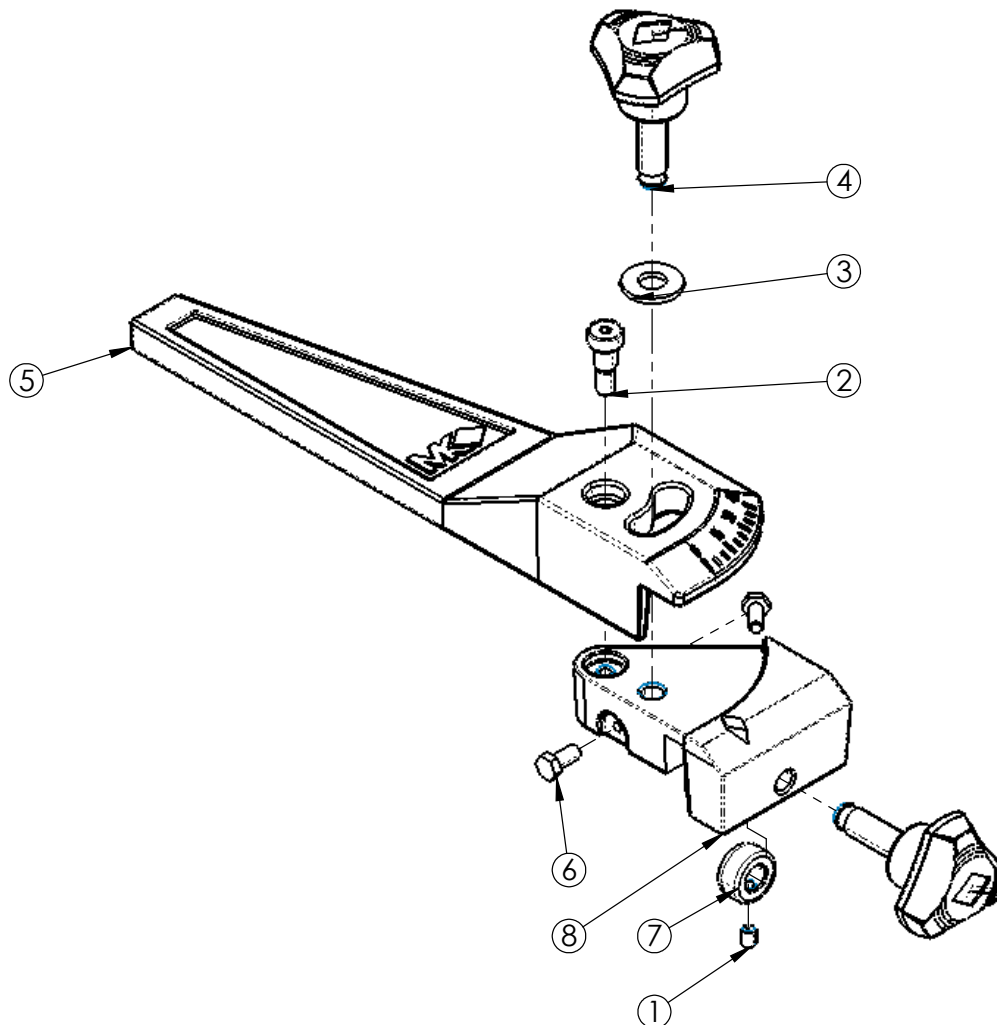
ITEM NO.	DESCRIPTION	PART #	QTY.
1	HOUSING, LINEAR BEARING	162062	1
2	BUSHING, LINEAR GUIDE	162063	1
3	SCREW, SOCKET HD SET, M5 X 6MM	165350	2
4	BEARING, SLEEVE	166671	2
5	CAP, GUIDE BUSHING	166673	2

PARTS LIST - ASSY, SIDE TABLE - P/N 165317



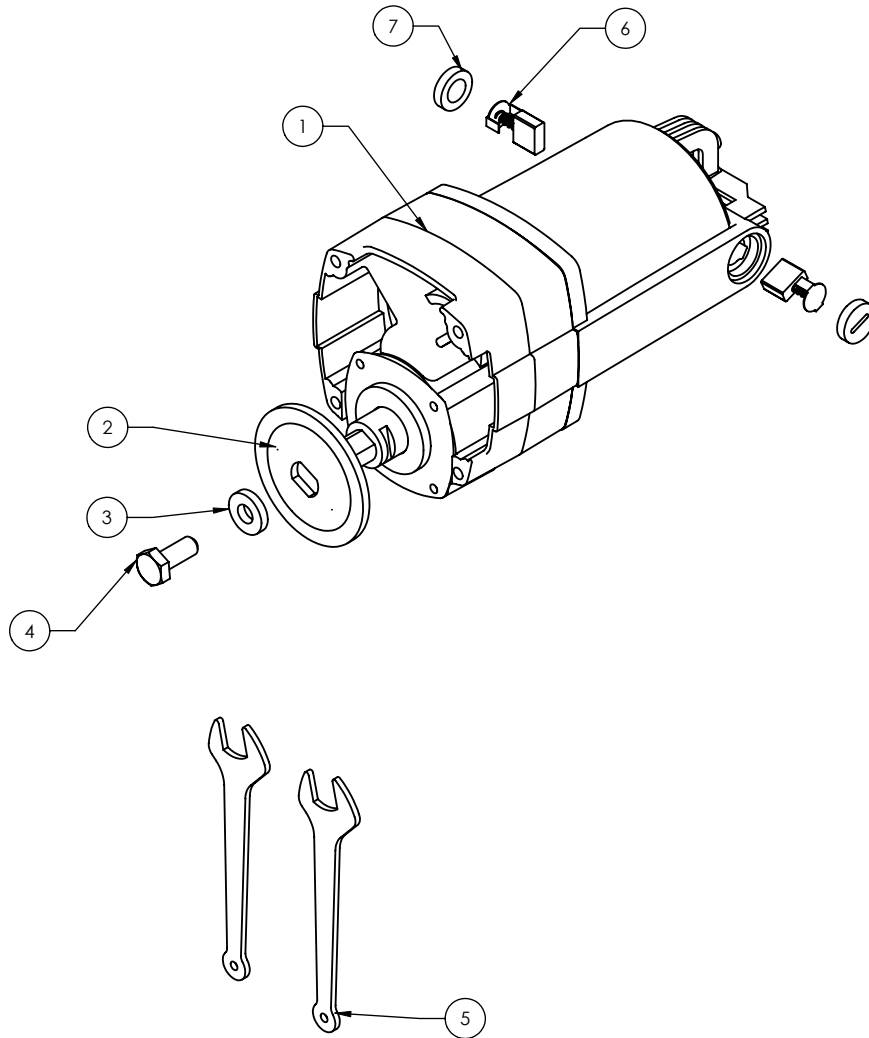
ITEM NO.	DESCRIPTION	PART #	QTY.
1	TABLE. SIDE	166676	1
2	SCREW, SOCKET HD SET, M5 X 6 MM	165350	2

PARTS LIST - ASSY, RIP GUIDE - P/N 165356



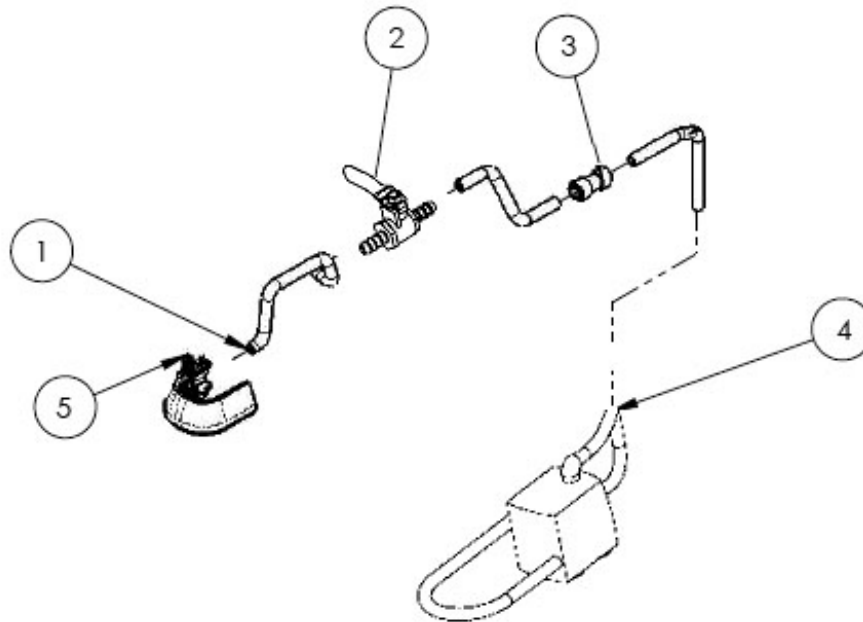
ITEM NO.	DESCRIPTION	PART #	QTY.
1	SCREW, SOCKET HD SET, M4 X 6 MM	165313	1
2	SCREW, SHOULDER, SOCKET CAP, M6 X 8 MM	154363	1
3	WASHER, FLAT, M8	164855	1
4	KNOB	165360	2
5	GUIDE	165357	1
6	SCREW, HEX HD CAP, M4 X 10 MM	165362	2
7	SEAT, CLAMPING	165361	1
8	BASE	165359	1

PARTS LIST - MOTOR & ACCESSORIES - P/N 166232-C



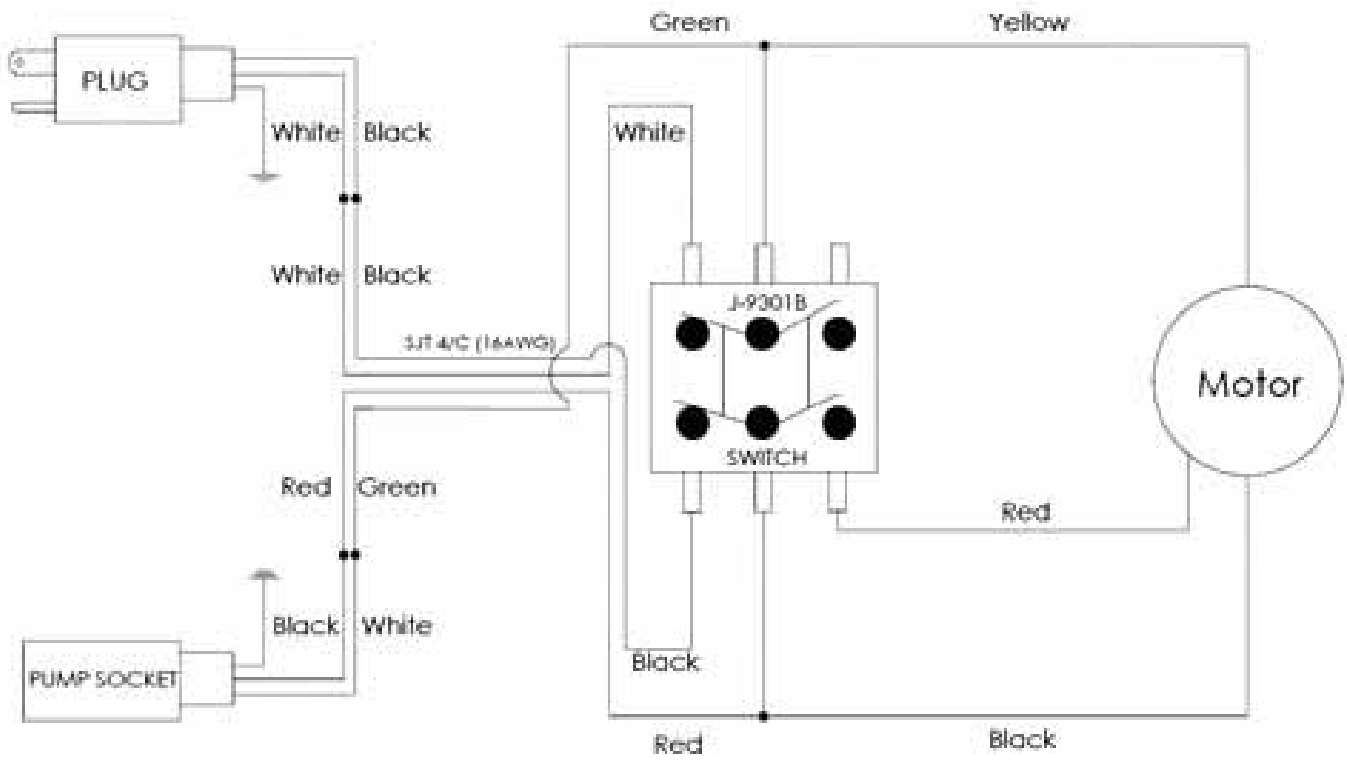
ITEM NO.	DESCRIPTION	PART #	QTY.
1	MOTOR	157801-C	1
2	FLANGE, OUTER	158105	1
3	WASHER, M10	166134	1
4	SCREW, HEX HD CAP, M10 X 20 MM	152272	1
5	WRENCH, 17 MM	158110	2
6	BRUSH, MOTOR	166228	2
7	CAP, MOTOR BRUSH	166229	2

PARTS LIST - FLOOD KIT - P/N 166788



ITEM NO.	DESCRIPTION	PART #	QTY.
1	TUBING, POLYURETHANE, 3/8 X .245 X 19	171337	1
2	VALVE, WATER FLOW CONTROL	171339	1
3	COUPLING, PUSH-TO-CONNECT, 3/8 X 3/8	165004	1
4	PUMP	171338	1
5	MODULE, WATER	171351	1
6	CARTON, OUTER (NOT SHOWN)	171219	1

WIRE DIAGRAM



ORDERING INFORMATION

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. A \$6.00 charge will be added to orders having a net billing value under \$50.00. All purchases must be made using VISA, MasterCard or American Express.

All parts may be ordered by calling toll free to – 800 421-5830 or 310 539-5221 and asking for Customer Service. For technical questions, call – 800 474-5594.

RETURN MATERIALS POLICY

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service. For technical questions, call – 800 474-5594 or 310 257-2845.

PACKAGING INSTRUCTIONS

- Remove the Cutting Head and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: Saw, Diamond Blade, Blade Guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at 800 421-5830 or 310 539-5221 for the Authorized Service Center closest to you or visit our web site at www.mkdiamond.com. For technical questions, call – 800 474-5594.

CONTACT:

Please contact MK Diamond Products, Inc. Customer Service Department with any questions you might have regarding distributors, parts or service.

Telephone: **(800) 421-5830**

Fax: **(310) 539-5158**

E-mail: **Customer_Service@MKDiamond.com**

Customer Service Hours: **Monday through Friday, 6AM-4PM PST**

MK Diamond Products, Inc.

1315 Storm Parkway

Torrance, CA 90501

MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY

MK DIAMOND PRODUCTS, INC. will guarantee every machine they build, to be free from defects in material and workmanship for (1) one year from date of purchase. The obligation of MK DIAMOND PRODUCTS, INC. under this warranty is limited to the repair or replacement of any parts which, under normal use, prove to be defective in material or workmanship. The parts involved or the unit in question should be returned to MK DIAMOND PRODUCTS, INC. or to a point designated by us, transportation prepaid.

This warranty does not obligate us to bear the cost of labor or transportation charges in connection with replacement or repair of defective parts. Likewise, it shall NOT apply to any unit which has been subjected to misuse, neglect or accident. This warranty does NOT apply to any machine which has been repaired or altered outside our factory.

This warranty does NOT obligate MK DIAMOND PRODUCTS, INC., with respect to items not of our manufacture, such as engines, motors, hydraulics, etc., which are subject to their own guarantees and warranties.

We shall in no event be liable for consequential damages or contingent liabilities arising out of failure of any equipment or parts to operate properly.

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MK Diamond may have patents, patent applications, trade marks, copyrights of other intellectual property right covering this product in this document.

This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

The information and specifications included in this publication were in effect at the time of approval for printing.

TX-4 TILE SAW
OWNER'S MANUAL, OPERATIONS & PARTS LIST



MK Diamond Products, Inc.
1315 Storm Parkway
Torrance, CA 90501

Toll-Free: (800) 421-5830
Phone: (310) 539-5221
Fax: (310) 539-5158
www.mkdiamond.com