

# **BRAST**<sup>®</sup>

## **B+BTEC**

RS34

RS48

RS59



# BEAST RS34 - RS48 - RS59



*CAUTION: Carefully read and understand all Safety and Operating Procedures prior to using the Beast® machine. Keep this Manual in a safe place for future reference*



*ATTENTION: As our engineers are constantly conducting research and development on our machinery to develop quality products for the marketplace, our product model(s) can be changed without notice.*

Enter the Serial Number of your new Beast® Tile Saw in the box below. The Serial Number is located on the switch box.

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## BEAST SAFETY



*It is extremely important that you read and understand all of the safety instructions, the operating instructions and the maintenance instructions. If these instructions are not followed, serious injuries and/or death could occur to you or to others. Also, failure to read and follow the enclosed maintenance instructions can lead to equipment failure, damage to the equipment or reduced lifetime of the equipment.*

### Safety Messages

Safety messages are used to inform the person(s) using this equipment of the potential hazards that could lead to equipment damage, serious injury or even death. The safety messages within this manual will be followed by one of the following (3) three words that identify the severity of the damage.



**DANGER:** *It is important that all instructions within this manual be followed. If the instructions are not followed it is possible that serious injuries could occur as well as death.*



**WARNING:** *It is important that all instructions within this manual be followed. If the instructions are not followed it is possible that serious injuries could occur as well as death.*



**CAUTION:** *It is important that all instructions within this manual be followed. If the instructions are not followed it is possible that serious injuries could occur as well as death.*

### 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!

#### Safety Precautions:

- **MACHINE GUARDS SHOULD BE IN PLACE AT ALL TIMES**  
It is important that all machine guards remain in place and in proper working condition. This is to prevent serious injury, death or damage to the equipment.
- **REMOVE ADJUSTING TOOLS**  
The machine is supplied with some adjusting tools for equipment maintenance. It is important that the user of the machine makes sure that all tools are removed or in their proper storage area before the machine is turned on.
- **KEEPING THE WORK AREA CLEAN**  
It is important that the working area be clean so as to avoid potential accidents or injuries.
- **DO NOT USE THE EQUIPMENT IN DANGEROUS ENVIRONMENTS**  
It is important that power tools not be used in wet environments. The equipment should never be used in the rain. Also, it is advisable to keep the work-

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ing area well lit.

- **CHILDREN SHOULD BE KEPT AWAY FROM THE WORKING AREA**

Only the operator of the equipment should be in the working area. All other people especially children should be kept away at a safe distance.

- **KEEP THE WORKING AREA CHILDPROOF**

It is important to keep the working area child proof. This can be done by using locks on the equipment, plastic plugs for the electrical outlets and possibly even master switches on the equipment.

- **DO NOT DRY CUT WITH THE MACHINE**

The machine is not intended for dry cutting use. Always use sufficient water to wet cut tile, brick or natural stone. Dry cutting will result in dangerous dust levels (See also California Proposition 65 message) and will damage the installed water pump. any equipment that is returned with a damaged water pump due to dry cutting will be repaired or replaced totally at the customers expense. There will be no warranty claim.

- **FORCING THE TOOL**

The equipment was designed to do a certain job. Do not force the equipment to do something that it wasn't designed to do.

- **USING THE PROPER EXTENSION CORD**

If you plan to use an extension cord make sure it is in proper (good) working condition. Be sure that the extension cord is heavy enough to carry the current that the machine requires to run properly. If you use an extension cord that is underpowered a drop in voltage may occur along with a loss of power and/or overheating of the equipment

- **CLOTHING**

It is important that the operator does

not wear loose clothing that can potentially get caught in moving parts of the equipment. It is recommended to wear non-slip shoes along with a hair covering to keep hair away from the moving parts.

- **SAFETY GLASSES AND HEARING PROTECTION**

It is important to wear safety glasses and hearing protection when operating any type of equipment. Be sure that the safety glasses you wear are impact resistant.

- **SECURE WORK**

Clamps or a vise should be used to hold your work whenever practical. Keeping your hands free to operate the machine is safer. When securing the material to be cut by hand, be sure your hands stay as far away as possible from the rotating saw blade.

- **PROPER FOOTING**

It is important to keep proper footing and balance at all times when operating equipment. If proper footing is not observed by doing such things as overreaching, serious injury may occur.

- **TOOL MAINTENANCE**

It is important to keep tools clean and in good working order. This will result in optimal performance of the machine. Always follow the maintenance instructions for proper tool maintenance.

- **DISCONNECT TOOLS.**

It is important to disconnect the power tool before servicing the equipment. This should be done when changing accessories on the machine, changing blades and for other such things.

- **REDUCING ACCIDENTAL STARTING OF MACHINE**

It is important to be sure that the switch is in the OFF position before you plug the machine into an electrical outlet.

- **EQUIPMENT ACCESSORIES.**

It is important that you refer to the

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**READ MANUAL  
CAREFULLY  
BEFORE USE**



**WEAR  
SAFETY  
GEAR**



**DO NOT SPRAY  
WATER ON  
MOTOR**



**TURN OFF  
SAW BEFORE  
PLUGGING IN**



**USE GROUND  
FAULT CIRCUIT  
INTERRUPTOR**



**KEEP AWAY  
FROM  
MOVING PARTS**



**DO NOT  
REMOVE BLADE  
GUARD**

owner's manual for determining what are the recommended accessories to use with this type of equipment. Using accessories that are not recommended in the owner's manual may increase the risk of personal injury and/or to people that are within close proximity of the machinery.

- **CHECKING THE EQUIPMENT FOR DAMAGED PARTS.**

It is important to inspect the power tool before using it to check for damaged parts. Any part of the machinery that is damaged should be checked carefully to determine whether or not it should be used and whether or not it can function properly for its intended use.

It is important to check all the moving parts of the machinery for proper alignment and /or possible binding. All broken or damaged parts should be properly repaired or replaced. If these parts are not repaired or replaced the proper operation of the machine could be negatively affected. Damaged saw blades should be replaced immediately.

- **BLADE ROTATION DIRECTION AND FEED ROTATION.**

Always feed work into a blade in the direction of rotation. The blade should always be installed so that the rotation is in the direction of the arrow imprinted on the side of the blade and the blade guard.

- **NEVER LEAVE A TOOL RUNNING UNATTENDED – TURN POWER OFF**

It is important never to leave a tool running when not in use. Also never leave the tool until the blade has come

to a complete stop. It is important to always turn the power tool OFF when leaving the work area or when a cut is finished.

## Hazard Symbols:

- **READ MANUAL CAREFULLY BEFORE USE**



Carefully read and understand this operating manual and the enclosed safety instructions prior to using the machine.

- **WEAR SAFETY GEAR**



Always wear safety glasses and hearing protection when operating the machine

- **DO NOT SPRAY WATER ON MOTOR**



Avoid direct water spray on motor and switch housing when cleaning of or watering down machine.

- **TURN OFF SAW BEFORE PLUGGING IN**



It is important to make sure that the switch is in the OFF position before plugging the machine into an electrical outlet to prevent accidental starting of the machine.

- **ELECTRICAL SHOCK**



It is important to never touch electrical components of the machine while the machine is in operation.

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- KEEP AWAY FROM MOVING PARTS



It is important to keep hands, feet, hair and clothing away from all moving parts to prevent injury. It is also important to be sure that covers and guards are always in their proper position. If not, serious injury can occur.

- DO NOT REMOVE BLADE GUARD



It is important that all machine guards remain in place and in proper working condition. This is to prevent serious injury, death or damage to the equipment.



**WARNING:** *The use of saws and drills generates dust. Excessive airborne particles may cause irritation to eyes, skin and the respiratory tract. To avoid breathing impairment, always use dust controls and protection suitable to the material being sawed or drilled;*

See OSHA (19 CFR Part 1910.1200). Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions.

## California Proposition 65 Message

Some dust created by power sanding, sawing, grinding 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 and

- cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:

<http://www.osha-slc.gov/sltc/sillicarystalline/index.html>  
[http://www.oehha.org/prop65/out\\_of\\_date/6022kLstA.html](http://www.oehha.org/prop65/out_of_date/6022kLstA.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.

## Electrical Requirements and Grounding Instructions

In order to prevent potential 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 electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having 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

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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 doubts 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.



**WARNING:** *This tool is intended for use on a circuit that has a 3 pole outlet.*



**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 the Saw. Receptacles are available having built-in GFCI protections and may be used for this measure of safety. A GFCI is not supplied with the machine.

When using an extension cord, the GFCI should be installed closest to the power source, followed by the extension cord and lastly, the saw.



**CAUTION:** *Shock Hazard. For replacement, use only an identical Beast water pump, item # 6.513.298*



**WARNING:** *To avoid the possibility of the machines plug or electrical outlet getting wet, position the saw to one side of a wall mounted outlet. This will prevent water from dripping onto the outlet or plug. A "drip loop" should be arranged by the user to properly position the power cord relative to the power source. The "drip loop" is that part of the cord below the level of the outlet, 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 the possibility of the water coming in contact with the receptacle. If the plug or electrical outlet gets wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the machine. Then unplug and examine the machine for the presence of water in the outlet.



**WARNING:** *It is important to use extension cords that are only intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use".*



**WARNING:** *It is important to only use extension cords having an electrical rating not less than the rating of the product.*



**WARNING:** *It is important not to use damaged extension cords. Examine the extension cords before using it and replace it if it is damaged.*

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**WARNING:** It is important to not abuse the extension cord and do not yank on any cord to disconnect it from the outlet.



**WARNING:** It is important to keep the cord away from heat and sharp edges.



**WARNING:** It is important to disconnect the extension cord from the outlet before disconnecting the machine from the extension cord.



**WARNING:** It is important not to use an extension cord that is undersized. Using an undersized extension cord can result in low voltage to the motor thus resulting in a motor burnout or premature failure.

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.

Extension Cord Minimum Gage for Length

Volts	Total Length of Cord [ft]			
	25	50	100	150
	AWG	AWG	AWG	AWG
	14	12	Not recommended	

## Tile Specific Warnings:



**WARNING:**

- Always wear eye and hearing protection.
- Always disconnect the saw before conducting any type of service on the machine, includ-

ing when changing cutting blades and cleaning.

- Use the machine only with Beast 10" wet cutting blades.
- Always replace damaged cutting blade before operating.

## MACHINE SPECIFICATIONS

This sawing machine is designed and intended for the professional contractor. The machine is equipped with a saw head which moves horizontally along a guiding beam. The material to be cut is positioned on the saw table. The saw must be fed through the material. Through continuous supply of cooling water the cutting quality is improved as well as the wear on the saw blade is minimized. The cooling water also absorbs the saw dust. The quality and construction of this sawing machine meet the highest standards. The design is based on longevity and minimal maintenance.

The stainless steel construction contributes to a stable, rigid and durable sawing machine. The 4 detachable legs are to be installed in the leg sockets at the underside of the water container and fastened with the knobs.

### Cutting head

The cutting head is constructed of cast alloy components. The height adjustment is kept in balance with a spring. A knob secures the cutting head at the desired height.

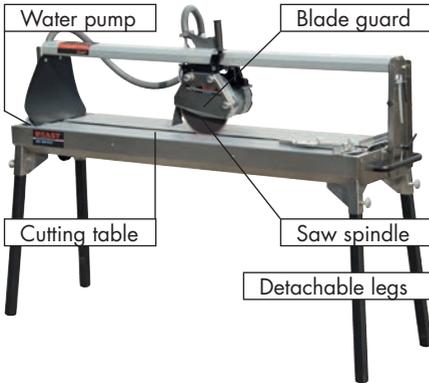
### Blade guard

The blade guard is a stainless steel plate cap with a removable blade cover which is fastened by 3 knobs.

### Saw spindle

The spindle flange is mounted on the saw

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spindle. The saw flange is to be mounted on the saw spindle with a hexagon nut to clamp the saw blade.

## Cutting table

The cutting table is constructed of removable aluminum components for easy maintenance, and a stainless steel adjustable side stop.

## Cooling system

The electrical water pump is switched on simultaneously with the saw motor and supplies cooling water to both sides of the saw blade. A drain hole, with a plug, is located in the water container. Mud flaps prevent most of the water mist and make

sure most water flows back in the water container.

## UNPACKING & SETTING UP

### Unpacking and Assembly

- Unpack the tile saw and inspect for any damaged parts.
- Install the legs in the sockets at the under side of the water container and fasten with the knobs. Markings show the right position.
- Level the tile saw by adjusting the legs in the sockets and make sure its stable.
- Release the transportation lock.



## Technical Data

	RS34	RS48	RS59
Type	2 HP	2 HP	2 HP
Capacity	2 HP	2 HP	2 HP
Blade diameter/hole	10"	10"	10"
Cutting height	max. 2"	max. 2"	max. 2"
Saw spindle speed	3.360 RPM	3.360 RPM	3.360 RPM
Cutting length	34"	48"	59"
Length	48"	61"	73"
Width	19"	19"	19"
Height (without legs)	24"	24"	24"
Weight	115 lbs	137 lbs	154 lbs
Noise level	81 dB (A)	81 dB (A)	81 dB (A)
Noise level (sawing)	92 dB (A)	92 dB (A)	92 dB (A)

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## Setting the Cutting Depth



**CAUTION:** By loosening the knob the saw head can be positioned at the desired height.

The saw head is tightened by a spring and may accidentally jump up when the knob is loosened.



## Motor protection

The motor is equipped with a thermal safety switch for protection against an overload. When the motor gets overheated, the switch falls back into its initial position and can only be switched on again after the motor has cooled down.

## Replacing the cutting blade



**WARNING:** Make sure to disconnect the machine from the power supply before fitting or replacing the cutting blade or when doing any maintenance on the machine.

- Remove the three knobs of the blade cover.

## Cooling system



**CAUTION:** Operating the water pump without a sufficient supply of water may result in pump damage.

- Place the plug in the drain of the water container.
- Fill the container with water until the water pump is completely submerged.

## Connecting to power supply



**CAUTION:** Before connecting the machine make sure that:

- the line voltage corresponds with the data on the machine's specifications plate;
- there is a grounded power supply;
- the extension cord's meets criteria as mentioned in the table on page 8.



- Block the sawing spindle with the 6 mm Allen wrench.
- Unscrew the 22 mm hexagon nut with the wrench and remove the saw flange. (Attention: Left-handed screw threading.)
- Clean the saw flanges.
- Fit the new cutting blade on the center ring of the motor flange. (Check the direction of rotation and make sure the blade is well centered.)
- Mount saw flange and tighten with the hexagon nut.

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## OPERATING INSTRUCTIONS

### Single Step Cutting

DO NOT FORCE THE TOOL! It will do the job better and safer at the rate for which it was designed.

Use original Beast® wet cutting blades only.

- Loosen the Adjustable Cutting Guide retaining knob.



- Position the Adjustable Cutting Guide to desired cutting length.
- Tighten the retaining knob.
- Place the tile against the Ruler/Stop and Cutting Guide.
- Turn the motor ON.
- Verify proper coolant flow on both sides of the blade.
- Perform the cut.
- Turn the motor OFF when work is complete.

### Multiple Step Cutting

During this sawing process the saw is positioned at the desired height and moved back and forth through the material to be cut until after a number of steps it is completely cut through.

- Place the material to be cut on the sawing table and position against the fixed stop and eventually the adjustable stop.

- Position the cutting head at the desired height
- Hold the material with one hand while making sure your hand is free from the cutting blade.
- Perform the cut. This process must be repeated until the material has been totally cut through.
- Turn the motor OFF when work is complete.

### 45° Miter Cutting

The Beast® Tile Saw is designed to perform 45° Miter Cuts without additional tools.



- Loosen the 2 handles on either side of the machine.
- Tilt the cutting head into the 45° position.
- Fasten both handles.
- Place the tile on the cutting table in the desired position.
- Hold the tile down with one hand. (Keep hand away as far as possible from the cutting blade.)
- Turn the motor ON.
- Verify proper coolant flow on both sides of the blade.
- Perform the cut.
- Turn the motor OFF when work is complete.

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## MAINTENANCE & TROUBLE-SHOOTING

### General Maintenance

- The cooling water should be replaced and/or replenished regularly.
- It is recommended to clean the water container, pump, hoses and spray nozzle on a regular basis. For example, place the pump in a bucket of clean water after the sawing job and run the machine for a minute or so. This also guarantees a longer lifetime of the pump.



- When the machine is not used for a longer period, the pump should not remain in the muddy cooling water. Cleaning the pump as described above and leaving it outside the water container is recommended.
- Regularly check the saw flanges for wearing out and replace if necessary.



### Diamond blade dressing

Diamond blades perform best when they are dressed. After time and use, diamonds on the outer edge of the blade might become glazed or dull.

This will reduce cutting efficiency and possibly cause the blade to bend. As a result, the cut will not be straight and misaligned.

When this occurs, the blade needs to be dressed. The diamond blade can be dressed with a Dressing Stick.

Dressing procedure(s):

- Place a Dressing Stick on the saw table.
- Make approx. 10 cuts through the Dressing Stick.

The diamond blade should be sharp again and ready for efficient cutting.

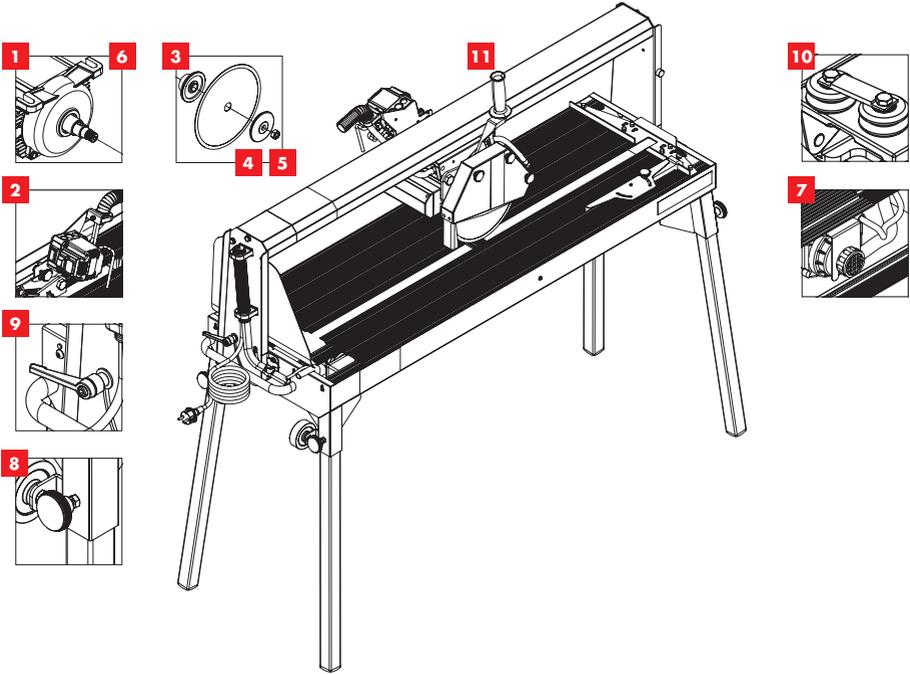
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## Troubleshooting

<p>The machine does not work.</p>	<ul style="list-style-type: none"> <li>- The power supply cable is damaged or not properly connected.</li> <li>- No voltage in the power outlet.</li> <li>- Start Switch is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>- Press the plug firmly in the power outlet. Check the power supply cable.</li> <li>- Have the power outlet checked.</li> <li>- Have the Switch replaced.</li> </ul>
<p>Water does not flow at the blade while the pump is running.</p>	<ul style="list-style-type: none"> <li>- The sprayers are clogged.</li> <li>- The water level in the waterbin is not sufficient. The pump is not totally submerged.</li> <li>- Water valve is closed.</li> </ul>	<ul style="list-style-type: none"> <li>- Clean the sprayers</li> <li>- Fill the waterbin with clean water until the pump is totally submerged.</li> <li>- Open the valve.</li> </ul>
<p>Motor is not running properly.</p>	<ul style="list-style-type: none"> <li>- Water may have seeped through inside the motor.</li> <li>- Capacitor is damaged.</li> <li>- Motor bearing are damaged.</li> </ul>	<ul style="list-style-type: none"> <li>- Unplug the power cable and consult your local dealer.</li> <li>- Unplug the power cable and consult your local dealer.</li> <li>- Unplug the power cable and consult your local dealer.</li> </ul>
<p>Pump is not running.</p>	<ul style="list-style-type: none"> <li>- The impeller or suction filter of the pump is damaged.</li> <li>- No proper connection of the power cable.</li> </ul>	<ul style="list-style-type: none"> <li>- Replace damaged parts.</li> <li>- Have the connection checked.</li> </ul>
<p>Bad cutting alignment.</p>	<ul style="list-style-type: none"> <li>- Machine is not level.</li> <li>- Unlevel working surface.</li> <li>- Improper or glazed diamond blade.</li> </ul>	<ul style="list-style-type: none"> <li>- Loosen the screws for the legs. Pick up the machine a little bit on one end. Let the machine down again and tighten screws. Do the same procedure for the other end. Machine should now be level.</li> <li>- Make sure the machine is placed on a level surface.</li> <li>- Replace or dress the diamond blade.</li> </ul>

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## Spare Parts



Pos. #	Item Nr. - 2 HP	Description
01	6.516.005	Motor
02	6.513.022	Switch
03	4.259.026	Motor Flange 5/8"
04	4.259.007	Saw Flange
05	6.516.006	Flange Nut
06	6.513.021	Capacitor
07	6.513.298	Pump
08	6.509.011	Knob
09	6.509.065	Adjustable Handle
10	4.259.040	Guiding Roller & Bearings
11	6.509.003	Handle

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## OPTIONAL ACCESSORIES



### Side Table

with squaring arm

Dimensions: 16" x 16"

Qty. 1

LPI# BRS ST



### GFCI Switch

Qty. 1

LPI# BRS GFCI



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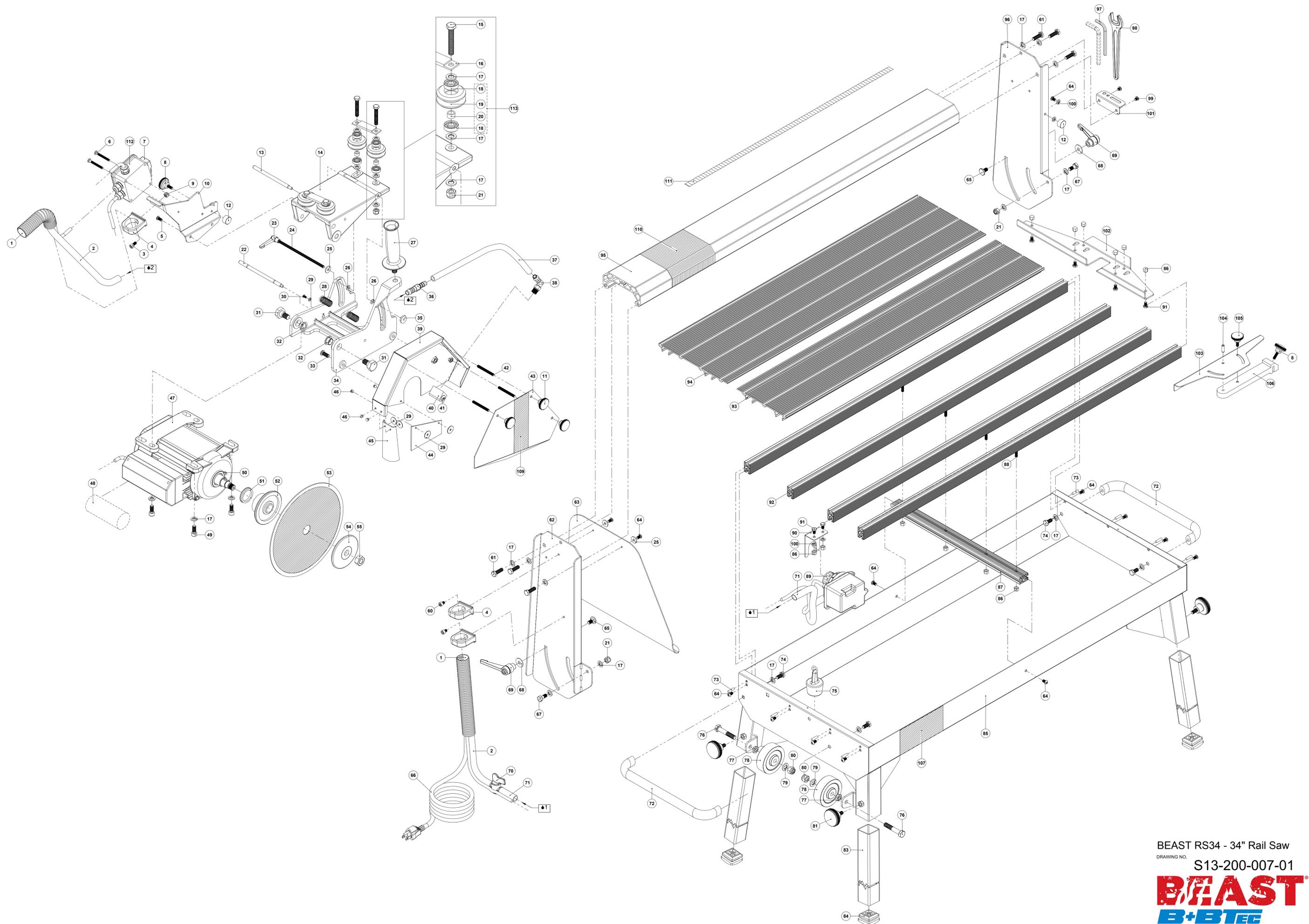
BRS/Rail Saw



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## **PARTS LISTS & DIAGRAMS**

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BEAST RS34 - 34" Rail Saw  
DRAWING NO.

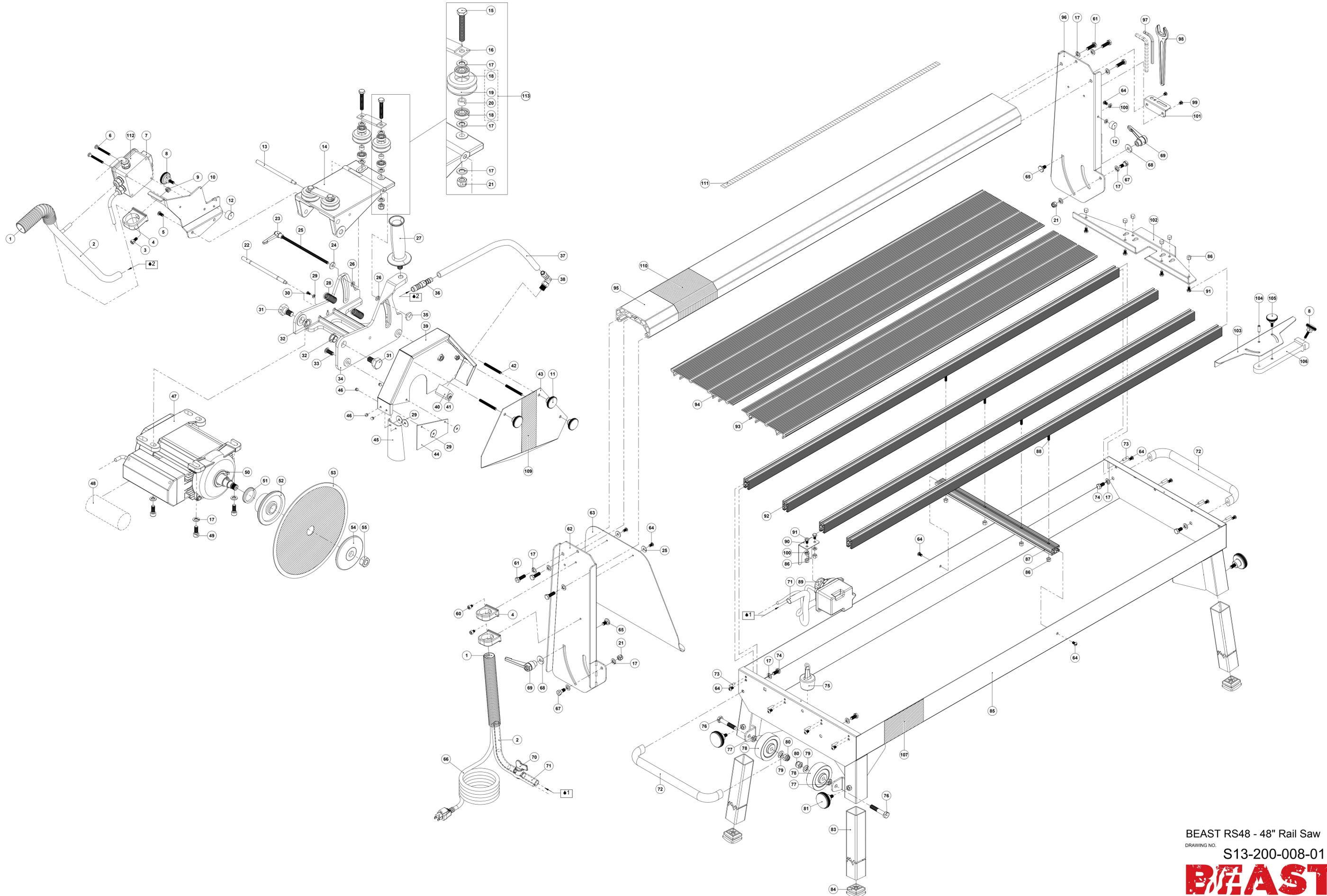
S13-200-007-01



# Parts list Beast RS34 - 34" Stainless Steel Rail Saw

2.000.201

Pos.	#	Art. code	Description	Pos.	#	Art. code	Description	Pos.	#	Art. code	Description
001	1	6.513.227	Protection hose	042	3	6.508.098	Threaded stud	089	1	6.513.298	Pump
002	1	6.005.261	Hose	043	1	6.000.178	Cutting cover	095	1	4.259.011	Guiding rail
003	1	6.508.805	Sockethead screw	044	1	6.000.179	Splash guard	097	1	6.512.005	Allen wrench
004	3	6.513.230	Clamp	045	1	6.000.181	Splash guard	098	1	6.512.022	Wrench
005	2	6.508.023	Screw	046	4	6.507.065	Rivet	100	4	6.505.265	Washer
006	2	6.508.656	Pan head screw	047	1	6.516.005	Motor 115V/60Hz	103	1	4.259.029	Rotatable stop
007	1	6.513.022	Switch	048	1	6.513.021	Capacitor	104	1	6.507.056	Pin
008	2	6.000.175	Knurled knob	049	1	6.508.371	Sockethead screw	105	1	6.509.012	Knurled knob
009	1	6.503.086	Self-locking nut	050	1	6.501.095	Key	106	1	6.000.192	Stop
010	1	4.259.018	Switchbox Bracket	051	1	6.502.140	V-ring	112	1	6.513.277	Switch box
011	3	6.005.793	Knurled knob	052	1	4.259.026	Motor flange 5/8"	113	1	4.259.024	Guiding roller
012	2	6.506.012	Rubber cap	054	1	4.259.007	Saw Flange				
013	1	4.259.002	Spring rod	055	1	6.516.006	Flange nut				
014	1	4.259.022	Slide bracket	060	1	6.508.706	Sockethead screw				
015	4	6.508.194	Hex. bolt	061	6	6.508.830	Hex. bolt				
016	2	4.259.006	Distance strip	062	1	6.000.182	Rear bracket (L)				
017	30	6.505.266	Flat washer	063	1	4.259.015	Splash guard				
018	8	6.504.003	Ball bearing	064	13	6.508.023	Screw				
019	4	4.259.024	Guiding roller	065	2	6.508.644	Bolt				
020	4	4.259.005	Distance bush	066	1	6.513.008	Power cable w/ plug				
021	6	6.503.087	Self-locking nut	067	2	6.508.048	Bolt				
022	1	4.259.003	Spring rod	068	2	6.505.050	Washer				
023	1	6.509.017	Adj. grip	069	2	6.509.065	Adj. grip				
024	1	4.259.020	Threaded Rod	070	1	6.510.022	Water valve				
025	3	6.505.189	Washer	071	1	6.510.024	Hose				
026	2	6.505.029	Nylon washer	072	2	6.509.085	Handle				
027	1	6.509.003	Grip	073	8	6.507.014	Tapered pin				
028	2	4.207.023	Tension spring	074	4	6.508.581	Hex. bolt				
029	5	6.505.264	Washer	075	1	6.510.003	Plug + chain				
030	1	6.508.011	Screw	076	2	6.508.101	Hex. bolt				
031	2	4.259.008	Hinge screw	077	2	6.503.003	Nut				
032	2	6.504.105	Bearing bush	078	2	6.515.001	Wheel				
033	2	6.508.538	Screw	079	2	6.505.016	Washer				
034	1	4.259.010	Motorplate	080	2	6.503.155	Hex nut				
035	1	4.259.014	Nut	081	4	6.509.027	Knurled knob				
036	1	6.510.018	Reducer	083	4	4.405.015	Tube				
037	1	6.510.019	Hose	084	4	6.506.100	Cap				
038	1	6.510.023	Hose nipple	085	1	6.000.183	Water bin				
039	1	6.000.176	Cutting protection	086	12	6.503.009	Low cap nut				
040	1	6.000.177	Water injector	087	1	6.000.184	Cross beam				
041	1	6.513.136	Stop	088	4	6.508.099	Hex. bolt				



BEAST RS48 - 48" Rail Saw  
DRAWING NO.

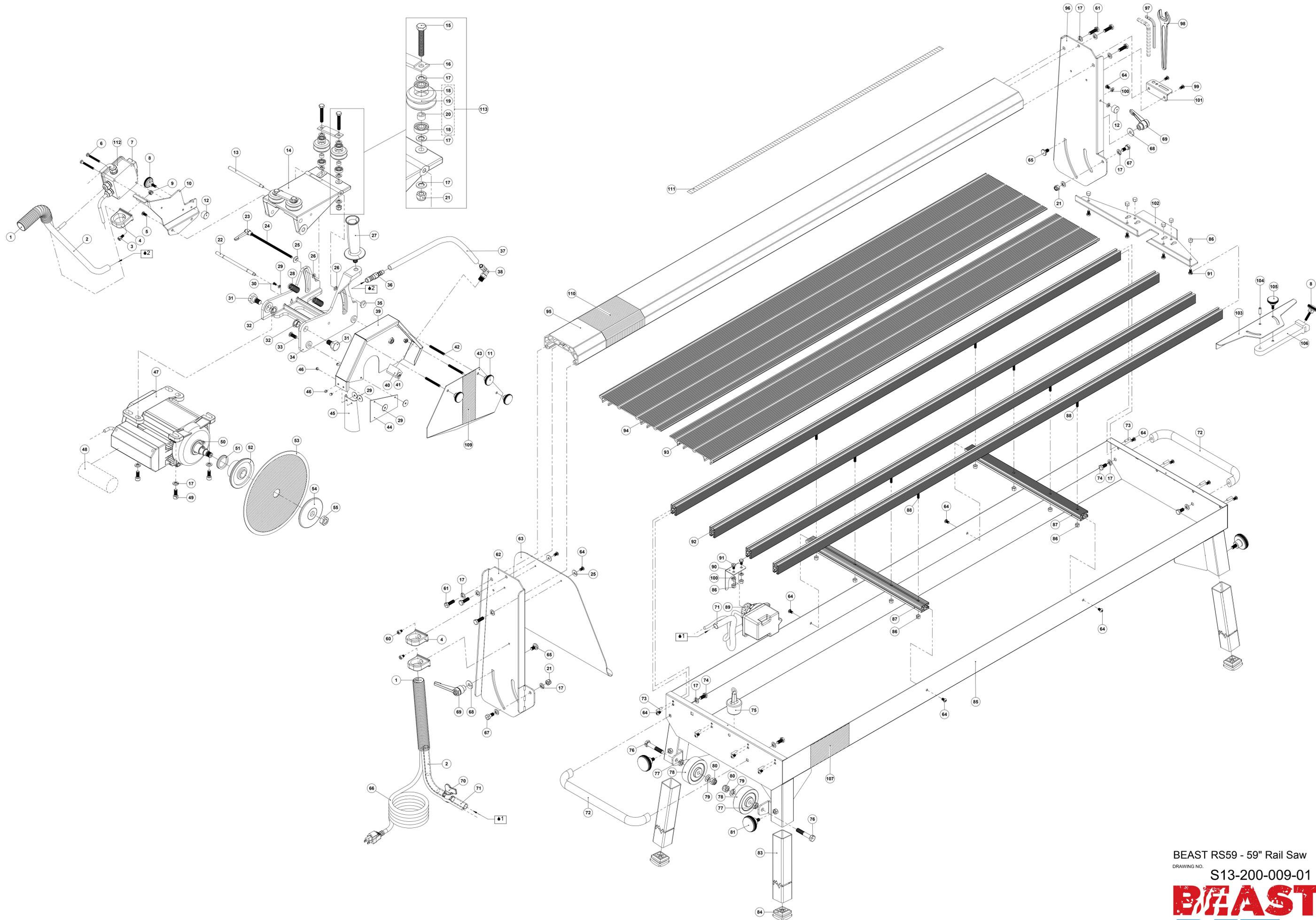
S13-200-008-01



# Parts list Beast RS48 - 48" Stainless Steel Rail Saw

2.000.202

Pos.	#	Art. code	Description	Pos.	#	Art. code	Description	Pos.	#	Art. code	Description
001	1	6.513.069	Protection hose	042	3	6.508.098	Threaded stud	089	1	6.513.298	Pump
002	1	6.005.270	Hose	043	1	6.000.178	Cutting cover	090	1	6.000.185	Pump bracket
003	1	6.508.805	Sockethead screw	044	1	6.000.179	Splash guard	091	8	6.508.642	Hex. bolt
004	3	6.513.230	Clamp	045	1	6.000.181	Splash guard	092	4	6.000.203	Supporting beam
005	2	6.508.023	Screw	046	4	6.507.065	Rivet	093	1	6.000.204	Table small
006	2	6.508.656	Pan head screw	047	1	6.516.005	Motor 115V/60Hz	094	1	6.000.206	Table wide
007	1	6.513.022	Switch	048	1	6.513.021	Capacitor	095	1	4.251.225	Guiding rail
008	2	6.000.175	Knurled knob	049	1	6.508.371	Sockethead screw	096	1	6.000.189	Rear bracket (R)
009	1	6.503.086	Self-locking nut	050	1	6.501.095	Key	097	1	6.512.005	Allen wrench
010	1	4.259.018	Switchbox Bracket	051	1	6.502.140	V-ring	098	1	6.512.022	Wrench
011	3	6.005.793	Knurled knob	052	1	4.259.026	Motor flange 5/8"	099	2	6.508.661	Screw
012	2	6.506.012	Rubber cap	054	1	4.259.007	Saw Flange	100	4	6.505.265	Washer
013	1	4.259.002	Spring rod	055	1	6.516.006	Flange nut	101	1	6.000.190	Tool bracket
014	1	4.259.022	Slide bracket	060	1	6.508.706	Sockethead screw	102	1	6.000.191	Stop plate
015	4	6.508.194	Hex. bolt	061	6	6.508.830	Hex. bolt	103	1	4.259.029	Rotatable stop
016	2	4.259.006	Distance strip	062	1	6.000.182	Rear bracket (L)	104	1	6.507.056	Pin
017	30	6.505.266	Flat washer	063	1	4.259.015	Splash guard	105	1	6.509.012	Knurled knob
018	8	6.504.003	Ball bearing	064	13	6.508.023	Screw	106	1	6.000.192	Stop
019	4	4.259.024	Guiding roller	065	2	6.508.644	Bolt	112	1	6.513.277	Switch box
020	4	4.259.005	Distance bush	066	1	6.513.008	Power cable w/ plug	113	1	4.259.024	Guiding roller
021	6	6.503.087	Self-locking nut	067	2	6.508.048	Bolt				
022	1	4.259.003	Spring rod	068	2	6.505.050	Washer				
023	1	6.509.017	Adj. grip	069	2	6.509.065	Adj. grip				
024	1	4.259.020	Threaded Rod	070	1	6.510.022	Water valve				
025	3	6.505.189	Washer	071	1	6.510.024	Hose				
026	2	6.505.029	Nylon washer	072	2	6.509.085	Handle				
027	1	6.509.003	Grip	073	8	6.507.014	Tapered pin				
028	2	4.207.023	Tension spring	074	4	6.508.581	Hex. bolt				
029	5	6.505.264	Washer	075	1	6.510.003	Plug + chain				
030	1	6.508.011	Screw	076	2	6.508.101	Hex. bolt				
031	2	4.259.008	Hinge screw	077	2	6.503.003	Nut				
032	2	6.504.105	Bearing bush	078	2	6.515.001	Wheel				
033	2	6.508.538	Screw	079	2	6.505.016	Washer				
034	1	4.259.010	Motorplate	080	2	6.503.155	Hex nut				
035	1	4.259.014	Nut	081	4	6.509.027	Knurled knob				
036	1	6.510.018	Reducer	083	4	4.405.015	Tube				
037	1	6.510.019	Hose	084	4	6.506.100	Cap				
038	1	6.510.023	Hose nipple	085	1	6.000.197	Water bin				
039	1	6.000.176	Cutting protection	086	12	6.503.009	Low cap nut				
040	1	6.000.177	Water injector	087	1	6.000.184	Cross beam				
041	1	6.513.136	Stop	088	4	6.508.099	Hex. bolt				



BEAST RS59 - 59" Rail Saw

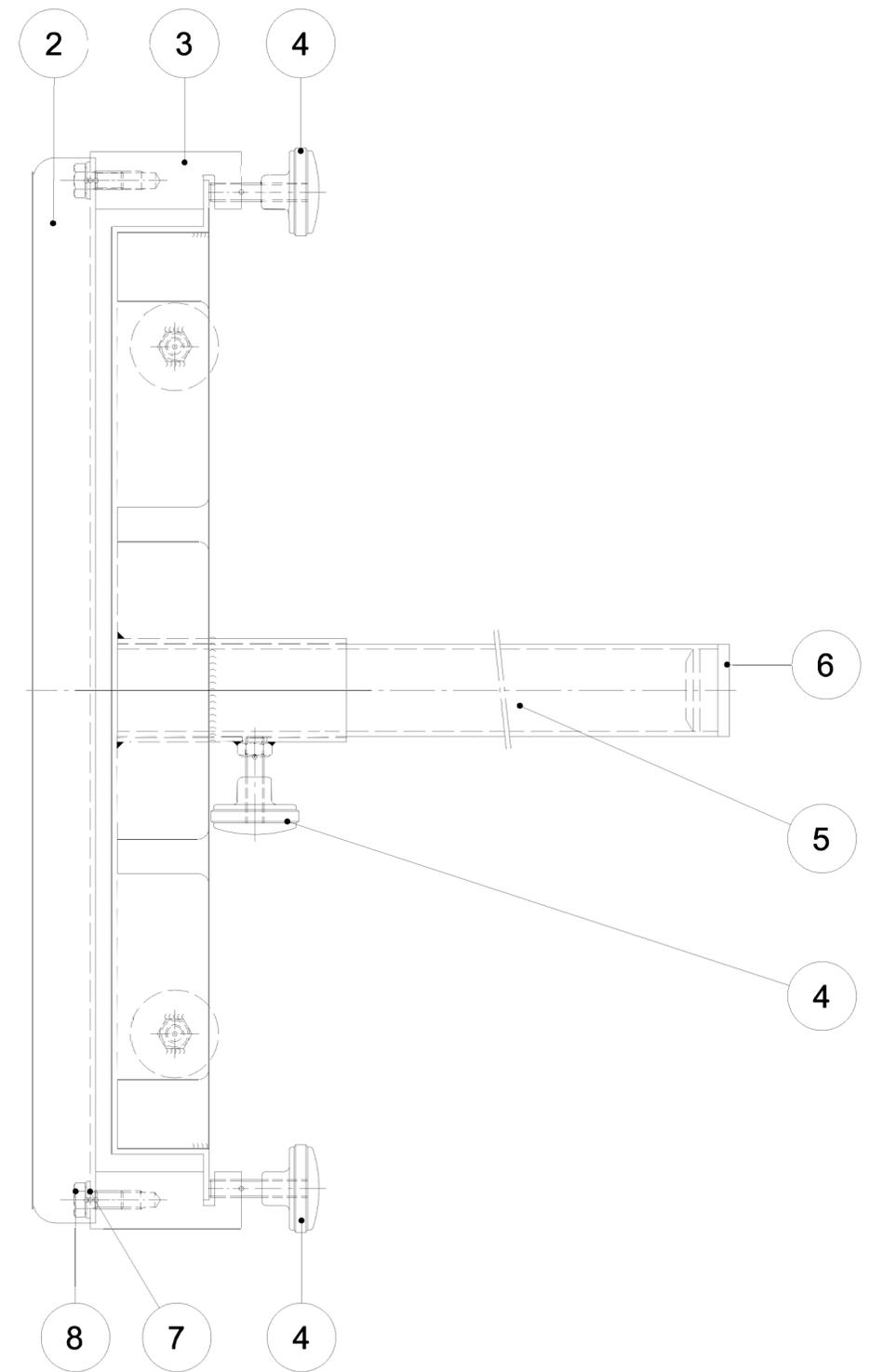
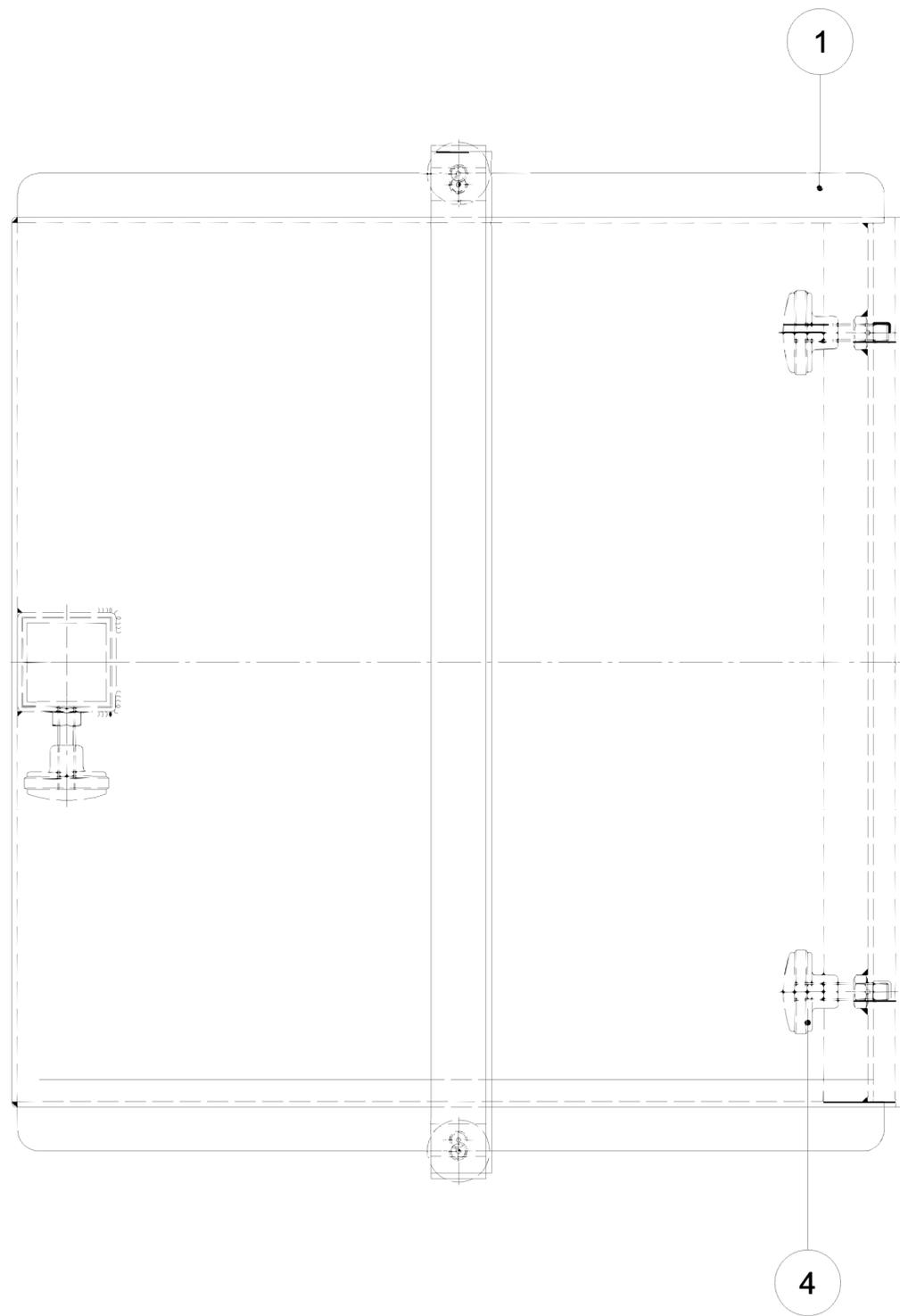
DRAWING NO. S13-200-009-01



# Parts list Beast RS59 - 59" Stainless Steel Rail Saw

2.000.203

Pos.	#	Art. code	Description	Pos.	#	Art. code	Description	Pos.	#	Art. code	Description
001	1	6.513.071	Protection hose	042	3	6.508.098	Threaded stud	089	1	6.513.298	Pump
002	1	6.005.271	Hose	043	1	6.000.178	Cutting cover	090	1	6.000.185	Pump bracket
003	1	6.508.805	Sockethead screw	044	1	6.000.179	Splash guard	091	8	6.508.642	Hex. bolt
004	3	6.513.230	Clamp	045	1	6.000.181	Splash guard	092	4	6.000.210	Supporting beam
005	2	6.508.023	Screw	046	4	6.507.065	Rivet	093	1	6.000.211	Table small
006	2	6.508.656	Pan head screw	047	1	6.516.005	Motor 115V/60Hz	094	1	6.000.212	Table wide
007	1	6.513.022	Switch	048	1	6.513.021	Capacitor	095	1	4.251.227	Guiding rail
008	2	6.000.175	Knurled knob	049	1	6.508.371	Sockethead screw	096	1	6.000.189	Rear bracket (R)
009	1	6.503.086	Self-locking nut	050	1	6.501.095	Key	097	1	6.512.005	Allen wrench
010	1	4.259.018	Switchbox Bracket	051	1	6.502.140	V-ring	098	1	6.512.022	Wrench
011	3	6.005.793	Knurled knob	052	1	4.259.026	Motor flange 5/8"	099	2	6.508.661	Screw
012	2	6.506.012	Rubber cap	054	1	4.259.007	Saw Flange	100	4	6.505.265	Washer
013	1	4.259.002	Spring rod	055	1	6.516.006	Flange nut	101	1	6.000.190	Tool bracket
014	1	4.259.022	Slide bracket	060	1	6.508.706	Sockethead screw	102	1	6.000.191	Stop plate
015	4	6.508.194	Hex. bolt	061	6	6.508.830	Hex. bolt	103	1	4.259.029	Rotatable stop
016	2	4.259.006	Distance strip	062	1	6.000.182	Rear bracket (L)	104	1	6.507.056	Pin
017	30	6.505.266	Flat washer	063	1	4.259.015	Splash guard	105	1	6.509.012	Knurled knob
018	8	6.504.003	Ball bearing	064	15	6.508.023	Screw	106	1	6.000.192	Stop
019	4	4.259.024	Guiding roller	065	2	6.508.644	Bolt	112	1	6.513.277	Switch box
020	4	4.259.005	Distance bush	066	1	6.513.008	Power cable	113	1	4.259.024	Guiding roller
021	6	6.503.087	Self-locking nut	067	2	6.508.048	Bolt				
022	1	4.259.003	Spring rod	068	2	6.505.050	Washer				
023	1	6.509.017	Adj. grip	069	2	6.509.065	Adj. grip				
024	1	4.259.020	Threaded Rod	070	1	6.510.022	Water valve				
025	3	6.505.189	Washer	071	1	6.510.024	Hose				
026	2	6.505.029	Nylon washer	072	2	6.509.085	Handle				
027	1	6.509.003	Grip	073	8	6.507.014	Tapered pin				
028	2	4.207.023	Tension spring	074	4	6.508.581	Hex. bolt				
029	5	6.505.264	Washer	075	1	6.510.003	Plug + chain				
030	1	6.508.011	Screw	076	2	6.508.101	Hex. bolt				
031	2	4.259.008	Hinge screw	077	2	6.503.003	Nut				
032	2	6.504.105	Bearing bush	078	2	6.515.001	Wheel				
033	2	6.508.538	Screw	079	2	6.505.016	Washer				
034	1	4.259.010	Motorplate	080	2	6.503.155	Hex nut				
035	1	4.259.014	Nut	081	4	6.509.027	Knurled knob				
036	1	6.510.018	Reducer	083	4	4.405.015	Tube				
037	1	6.510.019	Hose	084	4	6.506.100	Cap				
038	1	6.510.023	Hose nipple	085	1	6.000.209	Water bin				
039	1	6.000.176	Cutting protection	086	16	6.503.009	Low cap nut				
040	1	6.000.177	Water injector	087	2	6.000.184	Cross beam				
041	1	6.513.136	Stop	088	4	6.508.099	Hex. bolt				



BR ST - 16" x 16" Side Table

DRAWING NO.

05-030-011-01



# Parts list Beast BR ST - Side Table 16x16 inch

2.000.205

Pos.	#	Art. code	Description
------	---	-----------	-------------

01	1	6.000.001	Side table
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02	2	6.000.002	Stop
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03	2	6.000.003	Clamp
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04	5	6.509.028	Knurled knob
----	---	-----------	--------------

05	1	4.207.003	Tube
----	---	-----------	------

06	1	6.506.100	Cap
----	---	-----------	-----

07	2	6.505.266	Flat washer
----	---	-----------	-------------

08	2	6.508.581	Hex. bolt
----	---	-----------	-----------

## Squaring End Stop to Blade - BEAST Rail Saws BEAST RS34, RS48, & RS59



Carefully read and understand the Operating Manual, including the BEAST Safety Instructions, that was supplied with your BEAST Tile or Stone Saw.

### STEP 1.

#### Set up the machine on a level surface

Make sure the machine rests firmly on all legs and that there is no tension on the legs.



### STEP 2.

#### Put the Bridge into the 90° position

Swivel the Bridge to its end position and lock the guiding supports at both ends.



### STEP 3.

#### Check squareness of the end stop and the guiding rail.

Move the cutting head up and down the guiding rail while holding a square against the end stop.

When out of square the angle of the end stop can be adjusted.

Loosen the bolts which are located in the cutting table. Adjust the angle and retighten all bolts.



## Squaring Blade to Rail - BEAST Rail Saws BEAST RS34, RS48, & RS59



Prior to realigning the machine, carefully read and understand the Operating Manual, including the BEAST Safety Instructions, that was supplied with your BEAST Tile or Stone Saw.

### STEP 1.

#### Set up the machine on a level surface.

Make sure the machine rests firmly on all legs and that there is no tension on the legs.

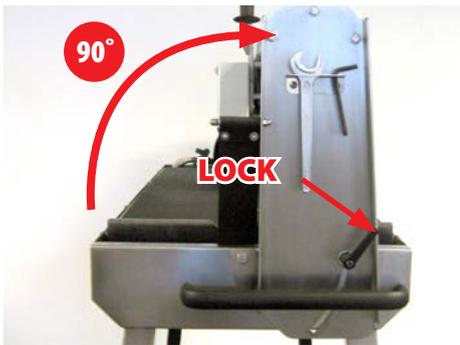
### STEP 2.

#### Remove the Blade Guard.

### STEP 3.

#### Put the Bridge into the 90° position.

Swivel the Bridge to its end position and lock the guiding supports at both ends.



### STEP 4.

#### Check parallelity of the Cutting Head and the Guiding Rail.

The saw blade on the saw head must be in a straight line with the guiding rail. Fix a dial gauge and point it on the saw blade just above the flange. Make sure the saw head can be moved back and forth over the guiding rail without the flange hitting the dial gauge. Mark the point where the tip of the dial gauge touches the saw blade and set the dial gauge on zero.

Move the saw head along the guiding rail until the dial gauge touches the other side of the saw blade. Turn the saw blade so the dial gauge will touch the mark again. Read the difference on the dial gauge.

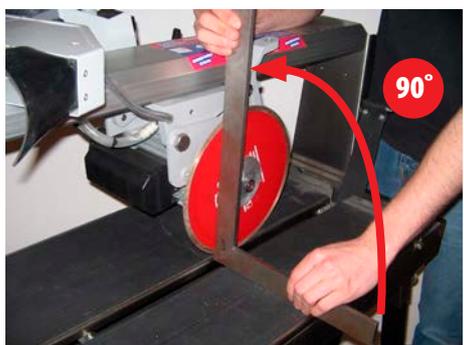




**STEP 4.**

When the deviation is unacceptable, the angle of the cutting head can be adjusted by loosening the bolts that connect the motor to the saw head.

Always verify that the cutting blade doesn't touch the table, both under a 90°-angle, and a 45°-angle.



**STEP 5.**

**Use a square to check squareness of the cutting blade and the table.**

Place the square flat on the table and carefully move it against the cutting blade rim.

Note that the Diamond Rim is always thicker than the Blade Core, so a small gap remains.

When out of square, the angle of the cutting blade (and cutting head) should be realigned.

Loosen the three bolts on both guiding supports. Adjust the angle and retighten all bolts.



**STEP 6.**

**Check squareness of the end stop and the guiding rail.**

Move the cutting head up and down the guiding rail while holding a square against the end stop.

When out of square the angle of the end stop can be adjusted.

Loosen the bolts which are located in the cutting table. Adjust the angle and retighten all bolts.

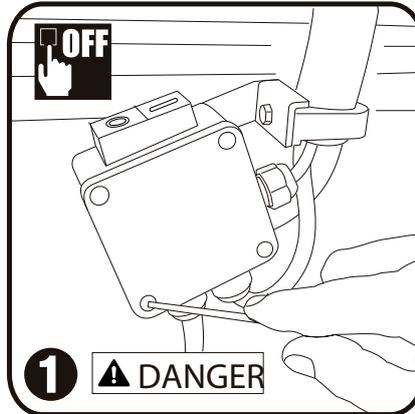


**REMOVAL OF OLD SWITCH**

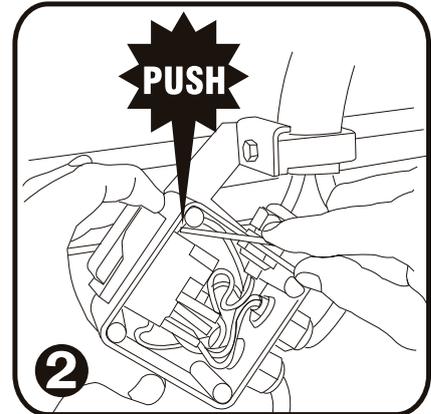


Prior to replacing the switch, please carefully read and understand the Operating Manual, including the

B+BTec Safety Instructions that was supplied with your B+BTec Tile Saw.

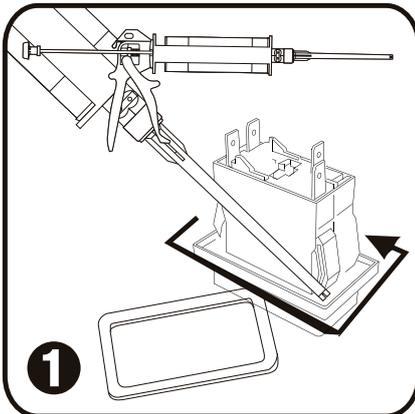


**1** **▲ DANGER**  
**IMPORTANT:** Make sure the machine is turned off and disconnected from the mains. Remove cover on Switch Plate.

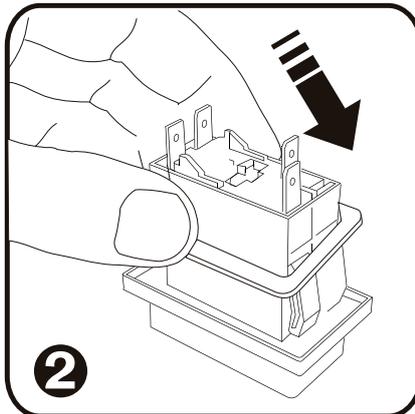


**2**  
 Using a screwdriver (flat head), push both ends of the switch out of the switch housing until it can be removed by hand. Disconnect the wires from the switch.

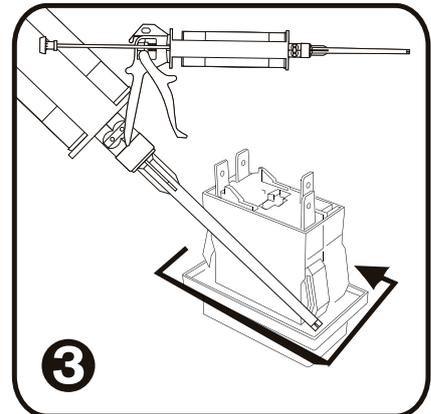
**INSTALLATION OF NEW SWITCH**



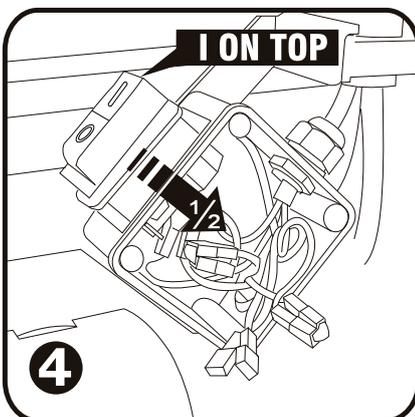
**1**  
 Place a bead of silicone caulk around the base of the switch.



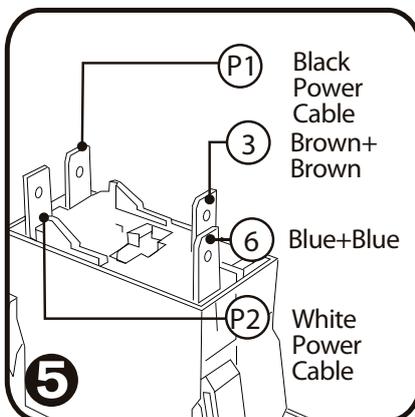
**2**  
 Place rubber gasket over switch and push gasket down around the base of the switch.



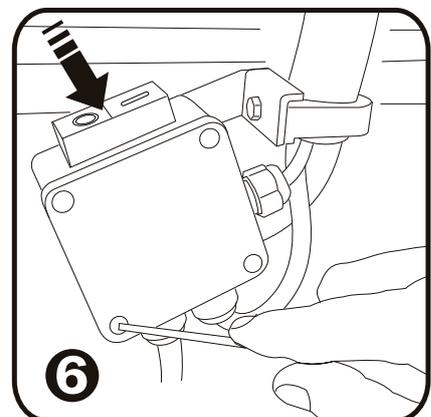
**3**  
 Place a bead of silicone caulk on top of the rubber gasket up against the side of the switch.



**4**  
 Insert switch appr. halfway into the switch housing. Please note to keep switch I on top.



**5**  
 Reconnect wires to their proper pins.



**6**  
 Finish inserting switch into switch housing and replace switch coverplate.