

# MK-101-24

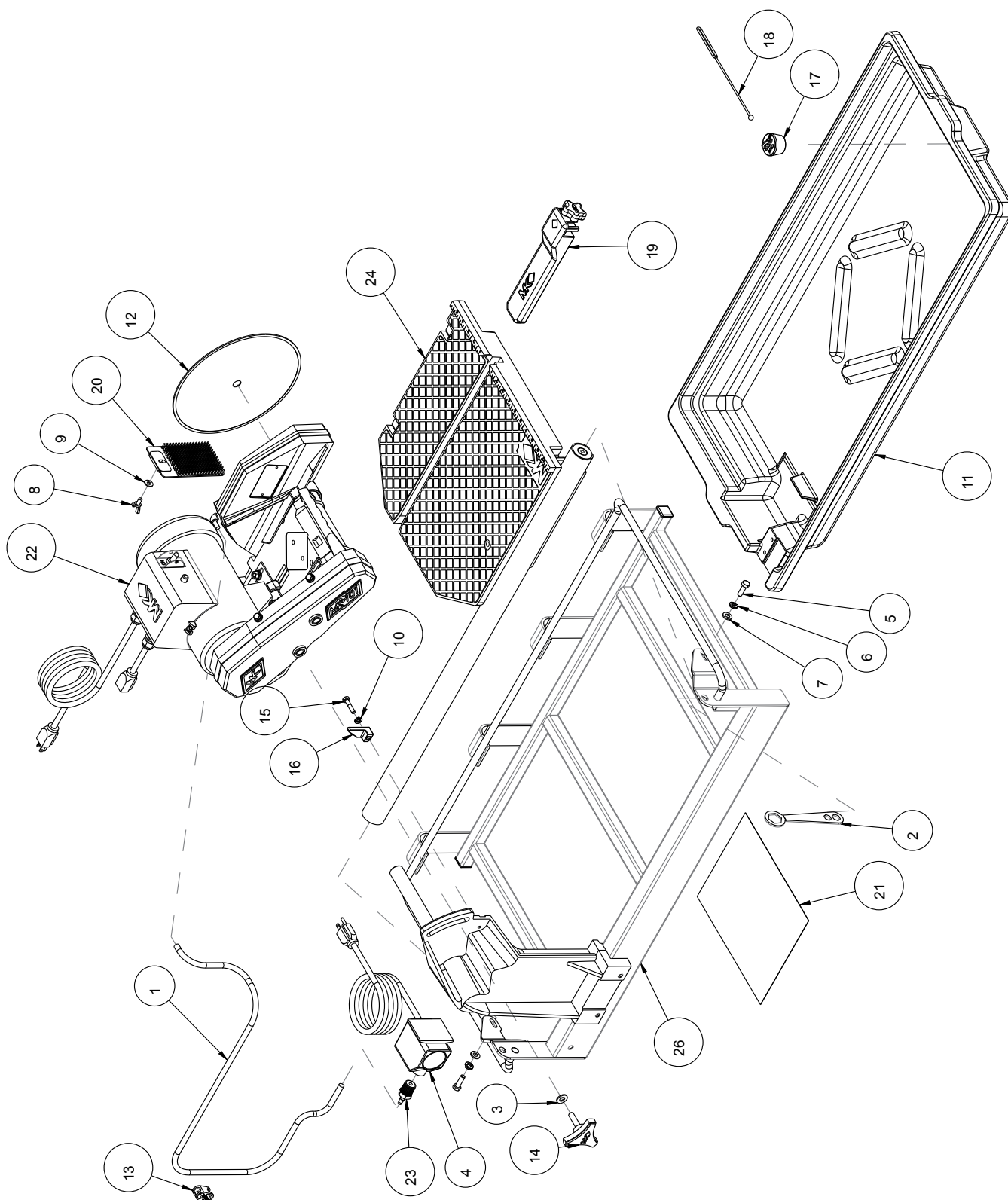
## OWNER'S MANUAL & OPERATING INSTRUCTIONS



MK-101-24  
Part # 169612

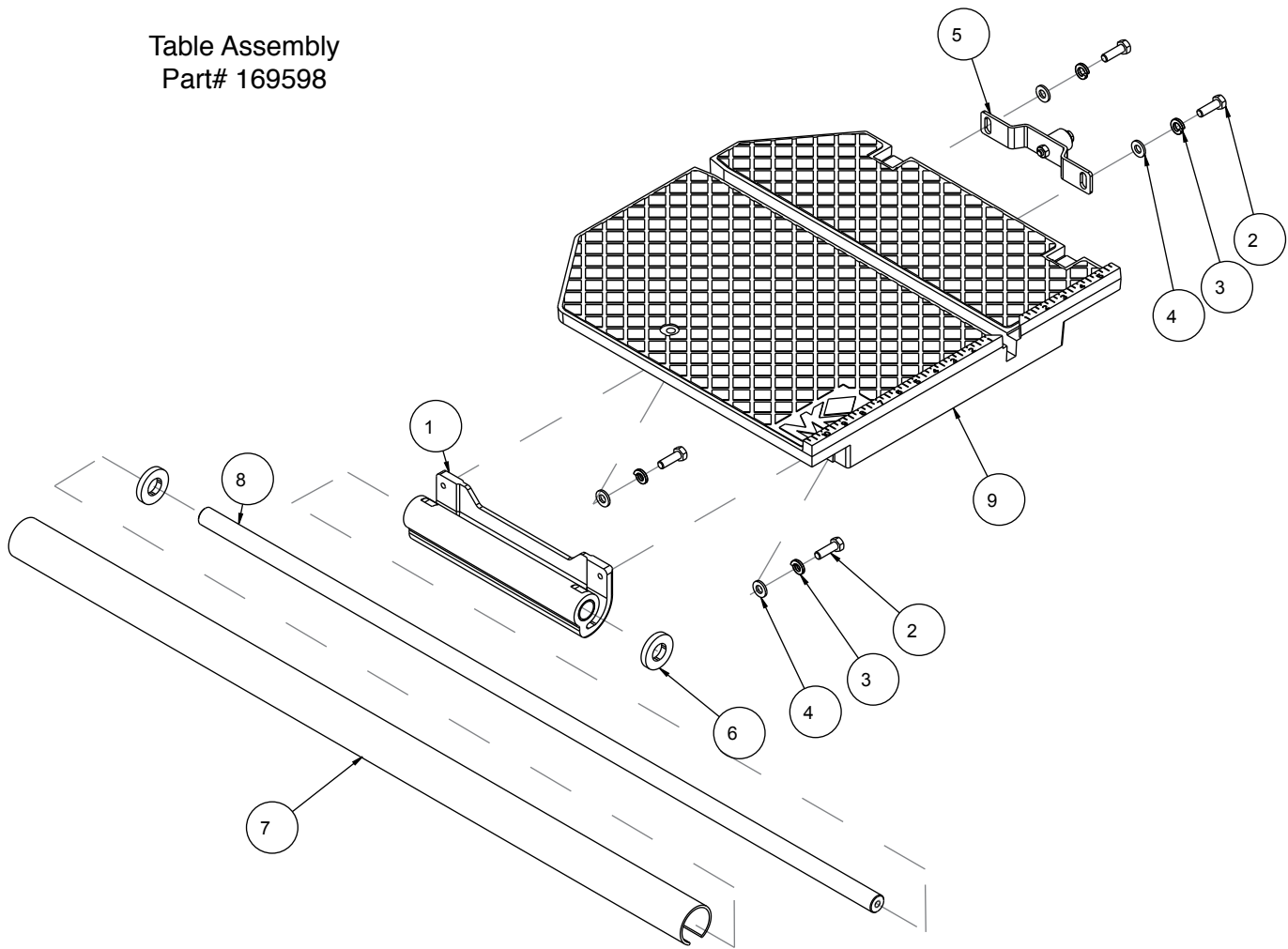
Revision 105	03.2015
Manual Part No. 169689	

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



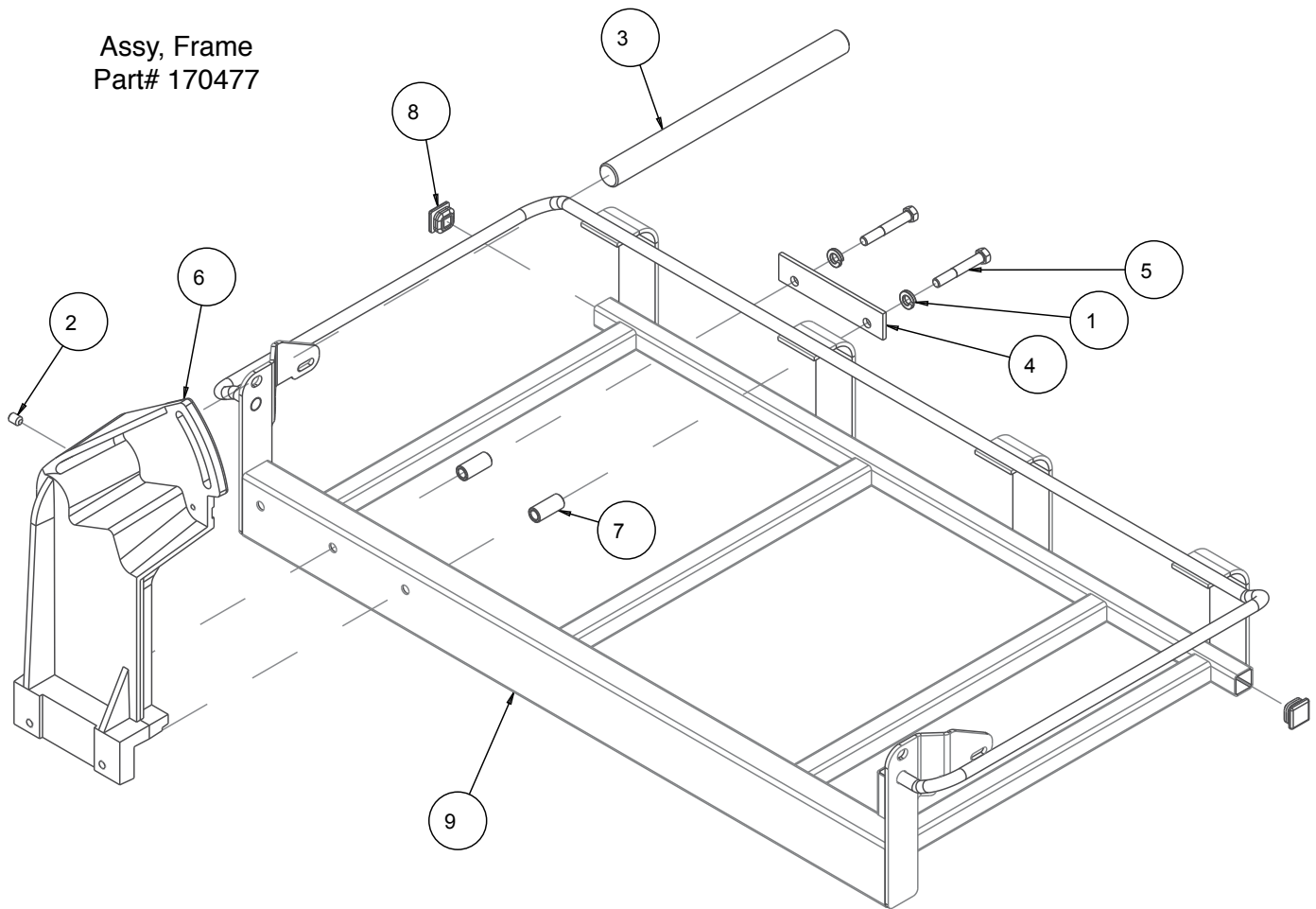
ITEM #	DESCRIPTION	PART #	QTY.
1	HOSE, VINYL, 1/4 X 3/8 (6.0')	132951	1
2	WRENCH, TILE SAW NUT 15/16	134684	1
3	WASHER, FLAT, SAE, 3/8	150923	1
4	PUMP, WATER 115V/60HZ UL/CSA	151271-VP	1
5	SCREW, HEX HD, 5/16 - 18 X 1	151743	2
6	WASHER, LOCK, SPLIT, 5/16	151747	2
7	WASHER, FLAT, SAE, 5/16	151754	2
8	SCREW, WING, 1/4 - 20 X 1/2	151888	1
9	WASHER, FLAT, SAE, 1/4	151915	1
10	WASHER, LOCK, SPLIT, 1/4	152591	1
11	PAN, WATER	153262	1
12	MK-100 10 x 060 x 5/8	154380	1
13	CLAMP, HOSE, 1/4 - 1/2 FLOW	154394	1
14	KNOB, TRI PLASTIC MK-660 1 - 1/2	156770-02	1
15	SCREW, HEX HD 1/4 - 20 X 1 - 1/4	157145	1
16	STOP, CUTTING HEAD	157728	1
17	DRAIN PLUG, W/RING	159529	1
18	STRAP, 9" DRAIN PLUG	159530	1
19	RIP GUIDE, LARGE DIE CAST	159751	1
20	GUARD, SPLASH	160310	1
21	SHEET, WARNING LABELS, TILE SAW	166012	1
22	ASSY, CUTTING HEAD, MK-101	168167	1
23	ADAPTER, 1/2 NPT X 1/4 BARB	168261	1
24	ASSY, TABLE, 101-24 STD	169598	1
25	ASSY, CARTON, MK101 PRO24 2011	169708	1
26	ASSY, FRAME AND POST, 101PRO24	170477	1

Table Assembly  
Part# 169598

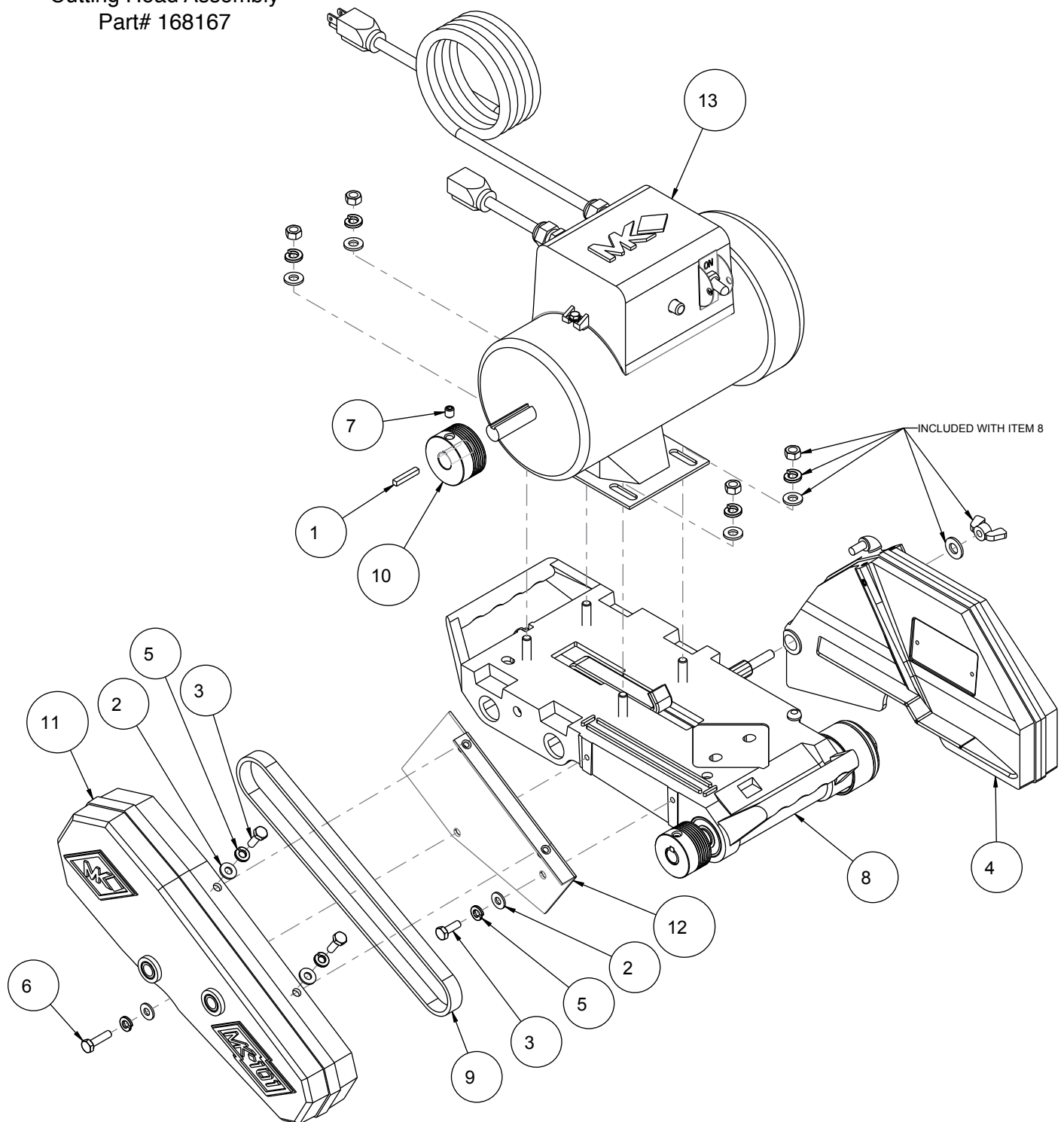


ITEM #	DESCRIPTION	PART #	QTY.
1	CASTING, 101/990 LNR BRG MT-COM	135855	1
2	SCREW, HEX HD, 5/16-18X1	151743	4
3	WASHER, LOCK, SPLIT, 5/16	151747	4
4	WASHER, FLAT, SAE, 5/16	151754	4
5	ASSY, WHEEL BRKT TSAW	151756	1
6	SPACER, GUIDE BAR COVER, COMMON	152393	2
7	COVER, 3/4 X 37 GUIDE BAR	153219	1
8	BAR, 3/4 X 37 LINEAR GUIDE, 101	153492	1
9	CAST, TABLE, PRO24, OVRMLD-COMP	161182	1

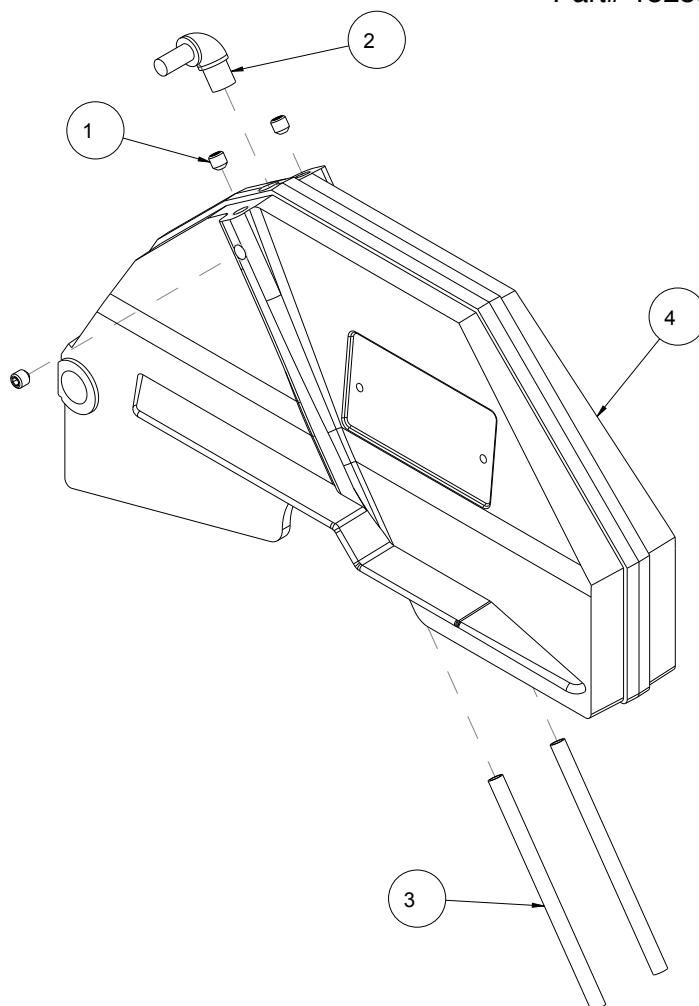
Assy, Frame  
Part# 170477



ITEM #	DESCRIPTION	PART #	QTY.
1	WASHER, LOCK, SPLIT, 3/8	150925	2
2	SCREW, SET, SOC, CUPT, 3/8-16X1/2	153710	1
3	SHAFT, 12.88 PIVOT	155530	1
4	PLATE, PRESSURE	155671	1
5	SCREW, 3/8-16 X 2-1/2 HEX HEAD CAP	156030	2
6	CASTING, POST, PRO24 OFFSET-COMP	158405	1
7	SPACER, 5/8 X .385 X 1/4	160654	2
8	PLUG, PLASTIC, 1 SQ-14-20 GA	160727-1	2
9	FRAME, 10" TILE SAW, 24" RIP	168021-24	1

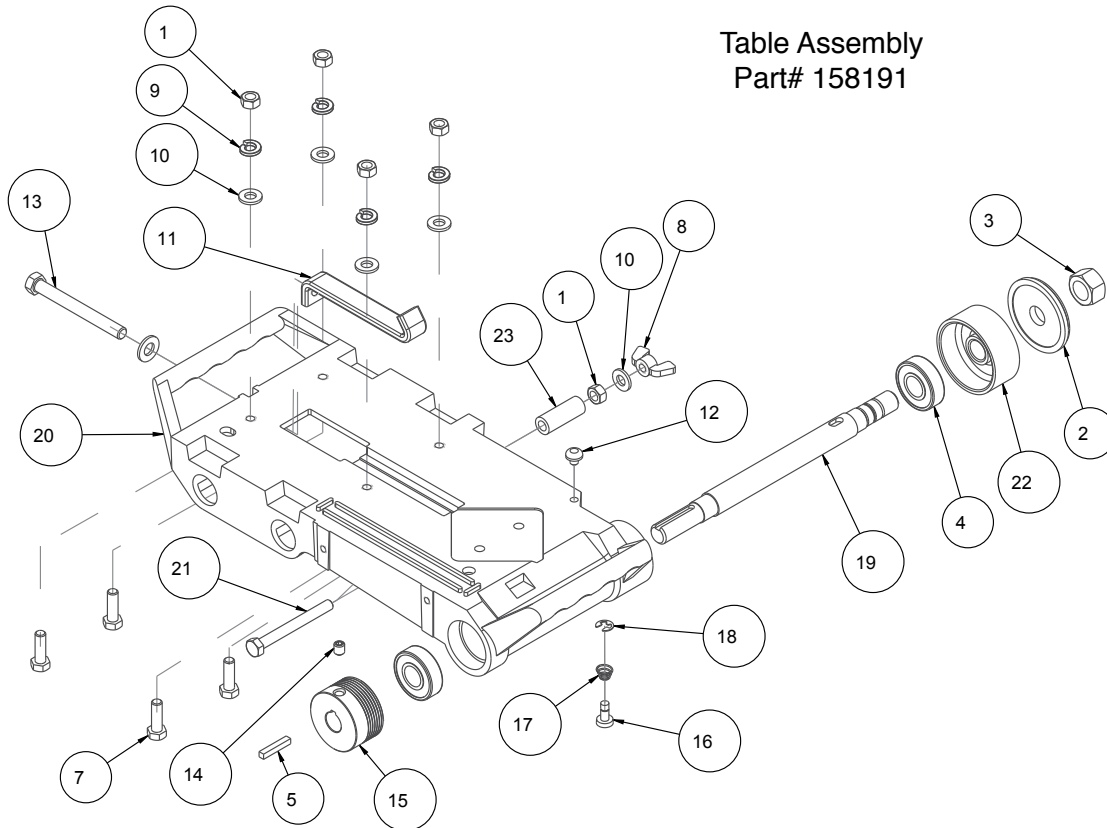
Cutting Head Assembly  
Part# 168167

ITEM #	DESCRIPTION	PART #	QTY.
1	KEY, 3/16 SQ X 1 - 18	150344	1
2	WASHER, FLAT, SAE, 1/4	151915	4
3	SCREW, HEX HD, 1/4 - 20 X 3/4	152370	3
4	ASSY, BLADE GUARD, 101	152582	1
5	WASHER, LOCK, SPLIT, 1/4	152591	4
6	SCREW, HEX HD, TAP, 1/4 - 20 X 1	152676	1
7	SCREW, 5/16 - 18 X 3/8 SOCKET HEAD SET	157083	1
8	ASSY, SUB, CUTTING HEAD MK-101	158191	1
9	BELT, 6J260	158194	1
10	PULLEY, 6J19 X 5/8 BORE	158199	1
11	CASTING, 101 BELT GUARD - COMP	158319-01	1
12	BRACKET, INNER BELTGUARD	158611	1
13	MTR, 1 - 1/2HP, 115V, 3400 RPM	168022G	1

Blade Guard  
Part# 152582

ITEM #	DESCRIPTION	PART #	QTY.
1	SCREW, 5/16 - 18 X 1/2 SOCKET HD SET	152607	3
2	ELBOW, 1/2MNPT X 1/4 BARB, 90 DEG	154652	1
3	TUBE, WATER	155389	2
4	CASTING, 101 BLD GUARD-DC-COMP	162481	1





ITEM #	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 5/16 - 18	101196	5
2	FLANGE, OUTER, 2 - 3/8	135830	1
3	NUT, HEX, 5/8-18	135848	1
4	BEARING, BALL, 17X40X12MM	137711	2
5	KEY, 3/16 SQ X 1-1/8	150344	1
6	WASHER, FLAT, SAE, 3/8	150923	1
7	SCREW, HEX HD, 5/16-18X1	151743	4
8	NUT, WING, NYLK, 5/16-18	151746	1
9	WASHER, LOCK, SPLIT, 5/16	151747	4
10	WASHER, FLAT, SAE, 5/16	151754	5
11	STRAP, 1 INCH, MOTOR ADJ.	152673	1
12	BUMPER, RUBBER, 1/2 DIA	152674	1
13	BOLT, 3/8-16 X 3-1/2 HEX HEAD TAP	153147	1
14	SCREW, 5/16-18 X 3/8 SOCKET HEAD SET	157083	1
15	PULLEY, 6J19 X 5/8 BORE	158199	1
16	BUTTON, SHAFT LOCK	158200	1
17	SPRING, BLADE SHAFT LOCK	158201	1
18	RING, 1/4 E-STYLE RETAINING	158202	1
19	SHAFT, BLADE	158222	1
20	CASTING, 10" CTTG HEAD - COMP	158224	1
21	SCREW, HEX HD, TAP, 5/16-18X3	162473	1
22	FLANGE, Ø 2-3/8 INNER	162758	1
23	SPACER, 9/16X5/16X1.5, PLAS	170824	1

## THEORY OF DIAMOND BLADES

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Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material. This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized. Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of “controlled bond erosion”.



### Types of Cutting

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on

- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of “free-spinning” (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut

ITEM	NUMBER	DESCRIPTION	
1.	137166	MK-200. 10" X 5/8" ARBOR Premium grade Diamond Blade for smooth, chip-free cutting on tile.	
2.	128074	MK-215, 10" X 5/8" ARBOR Supreme grade diamond blade for hard materials	
3.	153252	MK-315, 10" X 5/8" ARBOR Supreme super hi-rim diamond blade	
4.	134577-MK	DUAL 45° FLAT ANGLE GUIDE	
5.	153201-MK	45° MITER	
6.	134569-MK	90° PROTRACTOR	
7.	152792	DRESSING STONE	
8.	152610	GROUND FAULT CIRCUIT INTERRUPTER	
9.	168244	SAW STAND	

**ORDERING INFORMATION**

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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**

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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**

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- 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**

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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 too you or visit our web site at [www.mkdiamond.com](http://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.

**MK-101-24 TILE SAW**  
**OWNER'S MANUAL & OPERATING INSTRUCTION**



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Torrance, CA 90501

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