

MK-770 EXP TILE SAW

OWNERS MANUAL & OPERATING INSTRUCTIONS



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|------------------------|---------|
| Revision 205 | 03.2011 |
| Manual Part No. 160434 | |

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

MK-770 EXP PARTS LIST

PARTS LIST:

| Item | Description | Qty | Part # |
|----------|--|-----|-----------|
| A | Accessories | 1 | n/a |
| A1 | Wrench, Blade Nut, 15/16 Boxed End | 1 | 134684 |
| A2 | Wrench, Blade Shaft, 11/16 Open End | 1 | 153450 |
| A3 | Blade, 7 x 5/8 | 1 | - |
| A4 | Owner's Manual, 770EXP | 1 | 160434 |
| A5 | Warranty Card | 1 | 155037 |
| A6 | Assembly, Large Die Cast Rip Guide | 1 | n/a |
| | A6A) Rip Guide (comp) | 1 | 159751 |
| | Rip Guide (raw) | 1 | 159751-RW |
| | A6B) Knob, Rubber (1/4-20x3/4) | 1 | 159428-1 |
| A7 | Carton, Accessory Pack | 1 | 153366 |
| A8 | Sell Sheet, Tile Accessory | 1 | 156915 |
| A9 | Clip, Table Lock, 50 deg | 1 | 160331-3 |
| A10 | Clamp, Holding, Pump | 1 | 162073 |
| A11 | Screw, Wing, 1/4-20x1/2 | 2 | 151888 |
| A12 | Nut, Hex, 1/4-20 | 2 | 151893 |
| | Table, Side (comp) - optional | 1 | 160488 |
| | Table, Side (raw) | 1 | 160485 |
| | Screw, Set, 10-32x3/8 - optional | 2 | 160769 |
| B | Assembly, Blade Guard, 7" | 1 | 154811-MK |
| B1 | Guard, 7" Blade (comp) | 1 | 154811 |
| | Guard, 7" Blade (raw) | 1 | 154810 |
| B2 | Elbow, 1/8 MNPT X 1/4 BARB 90° Brass | 1 | 154652 |
| B3 | Knob, Davies | 1 | 151681 |
| B4 | Washer, 5/16 SAE Flat | 2 | 151754 |
| B5 | Wing nut, 5/16-18 Nylock | 1 | 151746 |
| C | Carton, MK-770 EXP | 1 | 160433 |
| C1 | Carton, Outer (PCA# 3490003530) | 1 | 160433-01 |
| C2 | Insert, Table Support (PCA# 3490003538) | 1 | 160433-02 |
| C3 | Pad, Corner, Outer Carton (PCA# 3490003540) | 4 | 160433-03 |
| C4 | Insert, Outer Carton (PCA# 3490003531) | 1 | 160433-04 |
| C5 | Insert, Accessory Pack (PCA# 3490003236, rev.A) | 1 | 160044-03 |
| C6 | Divider, Cutting Head Carton (PCA# 3490003237, rev.A) | 2 | 160044-01 |
| C7 | Carton, Cutting Head (PCA# 3490003234) | 1 | 160044-05 |
| C8 | Divider, Cutting Head Carton (PCA# 3490003238, rev. A) | 2 | 160044-02 |
| C9 | Pad, Carton, Cutting Head (PCA# 3490003355) | 4 | 160044-08 |
| D | Assembly, Cutting Head | 1 | 160042 |
| D1 | Cutting Head (Comp) | 1 | 159937 |
| | Cutting Head (Raw) | 1 | 159936 |
| D2 | Helicoil, 3/8-16x3/8 | 1 | 153486 |
| D3 | Screw, Slotted Pan Head, 10-32x3/4 | 1 | 151750 |
| D4 | Screw, Slotted Pan Head, 10-32x1 | 1 | 151751 |
| D5 | Nut, Hex 10-32 | 2 | 151749 |
| D6 | Screw, Hex Head, 1/4-20x3/4 | 1 | 152370 |
| D7 | Nut, Hex, 1/4-20 | 1 | 151893 |
| D8 | Knob, Tri Plastic | 1 | 156770-04 |
| D9 | Label, Warning, Read Owner's Manual | 1 | 155806 |
| D10 | Tag, Serial Number, Blank | 1 | 157500 |
| D11 | Washer, Flat, 3/8 | 1 | 101360 |
| D12 | Drive Screw, Round Head, #7 x 5/16 | 2 | 157849 |
| E | Frame | 1 | n/a |
| E1 | Frame | 1 | 153003 |
| E2 | Pan, Water | 1 | 160121 |
| E3 | Clip, Cord, 1/4 Push Mount | 2 | 157259 |
| E4 | Plug, Water Drain | 1 | 159529 |
| E5 | Strap, 9" Drain Plug | 1 | 159530 |

MK-770 EXP PARTS LIST (cont...)

| | | | |
|----------|--|---|-----------|
| F | Assembly, Guide Bar, 3/4 Dia | 1 | n/a |
| F1 | Bar, Guide, 3/4 Dia | 1 | 134759 |
| | Steel, C1045 Chromerod, 3/4 Dia x 2.25' | 1 | 154185 |
| F2 | Screw, 5/16-18 X 1 Hex Head Cap | 2 | 151743 |
| F3 | Washer, 5/16 Split Lock | 2 | 151747 |
| F4 | Washer, 5/16 SAE Flat | 2 | 151754 |
| F5 | Cover, Guide Bar | 1 | 158403 |
| F6 | Spacer, Cover, Guide Bar | 2 | 152393 |
| | | | |
| G | Linear Bearing, 3/4 Dia | 1 | n/a |
| G1 | Bearing, Multi lube | 2 | 152227 |
| | | | |
| H | Assembly, 120v Motor | 1 | n/a |
| H1 | Motor, 120v 7.4A, Ryobi | 1 | 156428-R |
| H2 | Label, Caution, GFCI, 1 X 2 1/8 | 1 | 155678 |
| H3 | Label, Caution, Receptacle, 1 X 2 1/8 | 1 | 154822 |
| H4 | Screw, 10-32 X 5/8 Flat Head Phillips Cap | 4 | 157554 |
| H5 | Flange, Blade | 2 | 135830 |
| H6 | Nut, 5/8-18 | 1 | 135848 |
| | | | |
| J | Assembly, Motor Mount | 1 | 160052 |
| J1 | Motor Mount (Comp) | 1 | 159941 |
| | Motor Mount (Raw) | 1 | 159940 |
| J2 | Washer, 5/16 Split Lock | 1 | 151747 |
| J3 | Screw, 5/16-18 x 2-1/2 Hex Head Cap, Full Thread | 1 | 151748 |
| J4 | Knob, Davies | 1 | 151681 |
| J5 | Bolt, Shoulder, Soc Head, 1/2 x 1/2 | 2 | 151753 |
| J6 | Bolt, Shoulder, Soc Head, 5/16 x 5/8 | 1 | 152137 |
| J7 | Washer, 5/16 SAE Flat | 1 | 151754 |
| | | | |
| K | Post | 1 | n/a |
| K1 | Post (Comp) | 1 | 160199 |
| | Post (Raw) | 1 | 160198 |
| K2 | Screw, Hex Head, 3/8-16x2" | 2 | 153485 |
| K3 | Washer, Lock, 3/8 | 2 | 150925 |
| K4 | Washer, Flat SAE, 3/8 | 2 | 150923 |
| K5 | Screw, Shoulder, Soc Head, 5/16x1 | 1 | 160045 |
| K6 | Screw, Soc Head Set, 1/4-20x1/4 | 1 | 157528 |
| K7 | Pin, Pivot | 1 | 160271 |
| | | | |
| L | Assembly, Roller Wheel | 1 | 151756 |
| L1 | Bracket, Roller Wheel | 1 | 154021 |
| L2 | Wheel, Roller | 1 | 151799 |
| L3 | Screw, 1/4-20 X 1 1/4 Hex Head Cap | 1 | 157145 |
| L4 | Washer, 1/4 SAE Flat | 1 | 151915 |
| L5 | Nut, 1/4-20 Hex | 1 | 151893 |
| | | | |
| M | Table | | n/a |
| M1 | Table (Comp) | 1 | 160268 |
| | Table (Raw) | 1 | 159938 |
| M2 | Screw, 5/16-18 X 1 Hex Head Cap | 2 | 151743 |
| M3 | Washer, 5/16 Split Lock | 2 | 151747 |
| M4 | Washer, 5/16 SAE Flat | 2 | 151754 |
| M5 | Spacer, 1/2x5/16x3/8 | 2 | 160264 |
| | | | |
| N | Assembly, 120v Water Pump | 1 | n/a |
| N1 | Pump, Water, 120v | 1 | 151271 |
| N2 | Hose, Vinyl, 1/4 ID x 2' | 1 | 132951 |
| N3 | Clamp, Flow, 1/4-1/2 | 1 | 154394 |
| | | | |
| O | Assembly, Splash Curtain | 1 | 155901-MK |
| O1 | Guard, Splash | 1 | 160310 |
| O2 | Washer, 1/4 SAE Flat | 1 | 151915 |
| O3 | Wing screw, 1/4-20 X 1/2 | 1 | 151888 |

THEORY OF DIAMOND BLADES

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




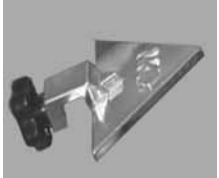
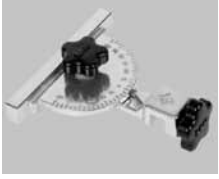
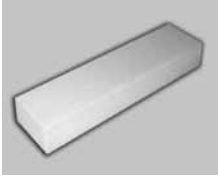
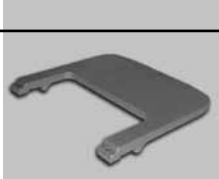
In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be 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

ACCESSORIES

ACCESSORIES

| ITEM | NUMBER | DESCRIPTION | |
|------|-----------|---------------------------|---|
| 1. | 139295 | MK-200, 7 x 5/8 Arbor |  |
| 2. | 139311 | MK-215, 7 x 5/8 Arbor |  |
| 3. | 153293 | MK-315, 7 x 5/8 Arbor |  |
| 5. | 134577-MK | Dual 45° Flat Angle Guide |  |
| 6. | 134569-MK | 90° Protractor |  |
| 8. | 152792 | Dressing Stone |  |
| | | |  |

ORDERING & RETURN INSTRUCTIONS

ORDERING INFORMATION

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

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA, MasterCard or American Express.

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

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 Blade guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-770 EXP, 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.

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DOCUMENT NO. I60434



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