



# ***BK65***

## ***Drill Sharpener***

### ***Operator's Manual***

# SAFETY INSTRUCTIONS FOR DAREX BK65 SERIES DRILL SHARPENERS

**CAUTION:** For Your Own Safety Read Instructions Manual Before Operating Grinder.

USE WHEELS MARKED AT OR OVER RPM OF 3450.

ALWAYS USE GUARDS AND EYE SHIELDS. DO NOT OVER TIGHTEN WHEEL NUT. USE ONLY PARTS FURNISHED WITH THIS GRINDER.

Always disconnect grinder from the power supply while motor is being connected or reconnected.

## INSTALLATION

Check grinder nameplate to make certain the rating is correct for the power supply, voltage and frequency.

Mount grinder on solid bench. It may be used without bolting down for light work. For heavy work it should be bolted down to the mounting surface. If mounted on pedestal, bolt grinder securely to pedestal and bolt pedestal to floor.

All attachment plugs and any receptacles shall be replaced with devices rated for the voltage for which the motor is reconnected.

After making connections, make sure they are secured and properly insulated.

When starting a grinder for the first time or after installing a replacement wheel, it is most important that the operator stand aside for at least one minute.

This is the correct practice since vitreous and similar type grinding wheels can explode if they have received minor cracks from shipping.

## OPERATION

Check that switch is in OFF position and that wheels rotate freely. Insert plug into receptacle and turn on switch. Grinder should come up to speed smoothly and without vibration.

## MAINTENANCE:

The ball bearings used are lubricated for life and do not require additional lubrication.

Vipe off and dispose of grinding particles to prevent accumulation.

## Safety Instructions

### A. GROUNDING INSTRUCTIONS

All grounded, cord-connected tools:

In the event 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.

An improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation, having an outer surface that is green with or without yellow stripes, is the equipment-grounding conductor. 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 serviceman 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 damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 volts:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Figure A. The tool has a grounding plug that looks like the plug illustrated in Figure A. A temporary adapter, which looks like the adapter illustrated in Figures B and C, may be used (except in (Canada) to connect this plug to a 2-pole receptacle as shown in Figure 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, lug, etc. extending from the adapter must be connected to a permanent ground such as a property grounded outlet box.

3. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between 115-250 volts, inclusive:

### B. FOR ALL TOOLS

1. KEEP GUARDS IN PLACE and in working order.
  2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
  3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
  4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
  5. KEEP CHILDREN AND VISITORS AWAY. Remove starter keys and turn off master switches.
  6. PADLOCK EQUIPMENT or work area when not in use.
  7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- B. USE RIGHT TOOL. Don't force tool or attachment to do a job it was not designed for.
9. WEAR PROPER APPAREL. No loose clothing, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
  10. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistance lenses: they are NOT safety glasses.
  11. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
  12. DON'T OVERREACH. Keep proper footing and balance at all times.
  13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
  14. DISCONNECT TOOLS before servicing; when changing accessories such as blades, bits, cutters, etc.
  15. AVOID ACCIDENTAL STARTING. Make sure switch is in OFF position before plugging in.
  16. USE RECOMMENDED ACCESSORIES. Consult the owners manual for recommended accessories. The use of improper accessories may cause hazards.
  17. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

18. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to assure that it will operate properly and perform in its intended function -- check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

19. NEVER LEAVE TOOL RUNNING UNATTENDED. Turn power off.

1. Always unplug the grinder from its power source before attempting to adjust, repair, or replace anything on the machine.
2. Always wear eye protection. Never turn on the grinder without wheel guards attached properly, and always stand to the side of the wheel when the grinder is first turned on.

US DEPARTMENT OF LABOR  
Form Approved Occupational Safety and Health Administration

OMB No. 44-R1367

**MATERIAL SAFETY DATA SHEET**  
**Required under USDL Safety and Health Regulations for**  
**Ship Repairing, Shipbuilding and Shipbreaking (29 CFR 1915, 1916, 1917)**

**SECTION I**

MANUFACTURE'S NAME: Darex Corporation  
EMERGENCY PHONE NO: (541) 488-2224  
ADDRESS: 220 East Hersey Street, Ashland, Oregon 97520  
CHEMICAL NAME & SYNONYMS: Diazon-Electroplated Diamond/CBN Products, Diamond (uncoated), man-made Diamond, RVG, MBG, MBS Product Families, Standard Series and 300 Series Diamond Micron Powder  
TRADE NAME & SYNONYMS: Electroplated CBN Wheels, Electroplated Diamond Wheels  
CHEMICAL FAMILY: Abrasive/Any Grade      FORMULA: N/A

**SECTION II - HAZARDOUS INGREDIENTS**

PAINTS, PRESERVATIVES, & SOLVENTS %:	TLV (UNITS)	TLV (UNITS)
Pigments	-----Base Metals	-----
Catalyst	-----Alloys	-----
Vehicle	-----Metallic Coatings	-----
Solvents	-----Filler Metal	-----
Additives	-----Plus Coating/Core Flux	-----
Others	-----Others	-----

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES      TLV (UNITS)

NAIF

**SECTION III - PHYSICAL DATA**

BOILING POINT (F) NAIF      SPECIFIC GRAVITY (H20 = 1)      NAIF  
VAPOR PRESSURE  
VAPOR DENSITY (AIR = 1): NAIF      PERCENT VOLATILE      NAIF  
BY VOLUME (%):      NAIF  
SOLUBILITY IN WATER: NAIF      EVAPORAT'N RATE =1      NAIF  
APPEARANCE AND ODOR: Clear, White To Yellow To Dark Crystals  
Silver Color

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED) FLAMMABLE LIMITS LEL UEL  
NAIF      -----

EXTINGUISHING MEDIA:      Water  
SPECIAL FIRE FIGHTING PROCEDURES:      None  
UNUSUAL FIRE AND EXPLOSION HAZARDS:      None

**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE EFFECTS OF OVEREXPOSURE

INHALATION: If dust generated, it could contain nickel, inhaling can cause respiratory disease. Dust can result from grinding ingestion. NAIF

SKIN: Prolonged contact with nickel may cause dermatitis, more frequently at high temperature & humidity. Wash skin with water, seek medical attention if needed.

EYES      DUST MAY IRRITATE EYES  
WASH WITH LARGEAMOUNTS OF WATER  
SEEK MEDICAL ATTENTION IF NEEDED

OTHERS      GRINDING MAY CREATE ELEVATED  
NOISE LEVELS WHICH MAY EFFECT HEARING  
EMERGENCY AND FIRST AID PROCEDURES  
OBTAIN MEDICAL ASSISTANCE

**SECTION VI - REACTIVITY DATA**

STABILITY      UNSTABLE      CONDITIONS TO AVOID  
STABLE      X

INCOMPATIBILITY (Materials to avoid)  
NAIF

HAZARDOUS COMPOSITIONS PRODUCTS  
NAIF

HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR

CONDITIONS TO BE AVOIDED  
CONTACT WITH STRONG ACIDS/CAUSTICS  
SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLE  
Normal clean up procedure

WASTE DISPOSAL METHOD  
Standard landfill methods

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type)  
Respiratory protection as needed see OSHA 29 CFR 1910.134

VENTILATION      LOCAL EXHAUST      SPECIF  
Recommended see OSHA 29 CFR 1910.94

PROTECTIVE GLOVES      EYE PROTECTION  
As desired by user      Recommended see OSHA 29 CFR 11910.215

OTHER PROTECTIVE EQUIPMENT  
NAIF

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
NAIF

OTHER PRECAUTIONS  
NONE

PAGE (1)

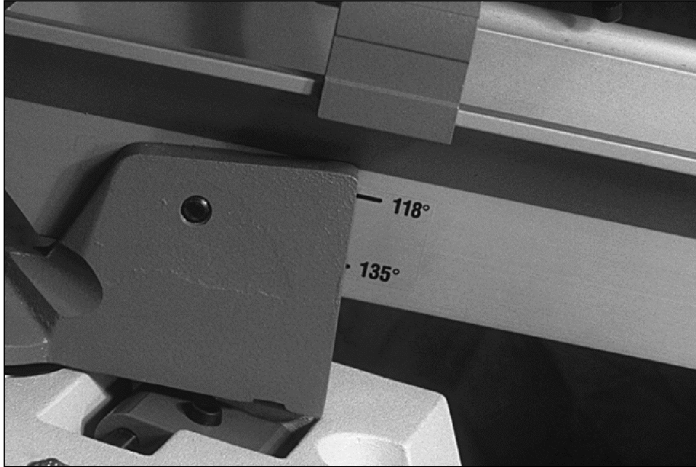
FORM OSHA-2

# BK65 DRILL SHARPENERS OPERATORS' GUIDE

## MACHINE SET-UP:

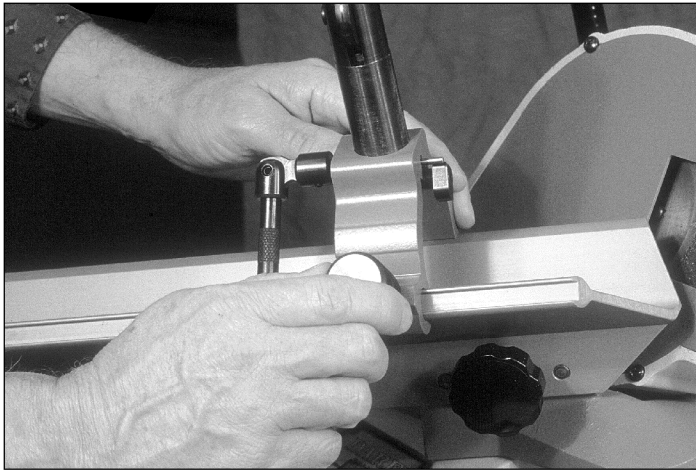
A. To install cradle, locate pins to holes in swing casting for either 118° or 135° point angle. (see indicators on left side of cradle).

Fig. A



B. Slide the drill clamp assembly on cradle to within 4 to 5 inches of the pivot end of the cradle.

Fig. B



C. Slide drill stop onto cradle approximately 1" from end.

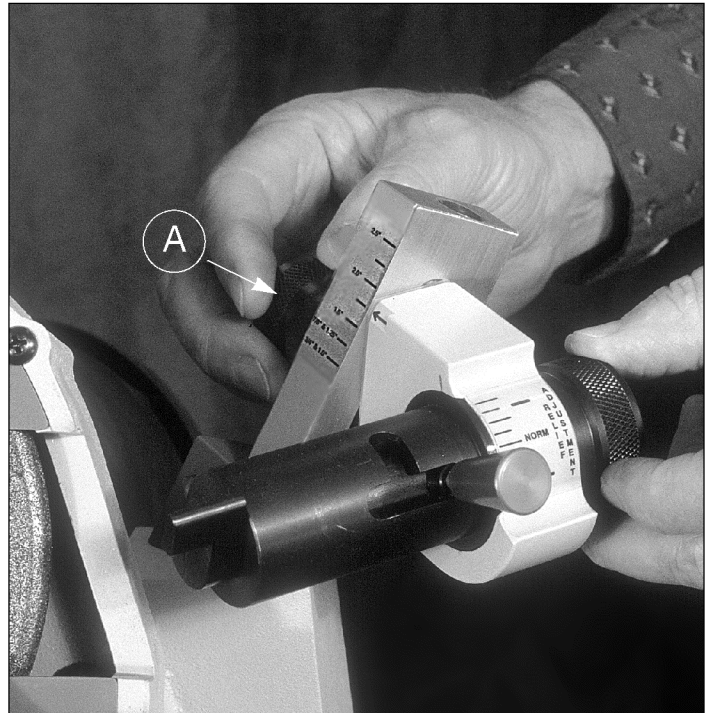
Fig. C



## SETTING THE BK65 DRILL GRINDING MACHINE TO GRIND A DRILL POINT.

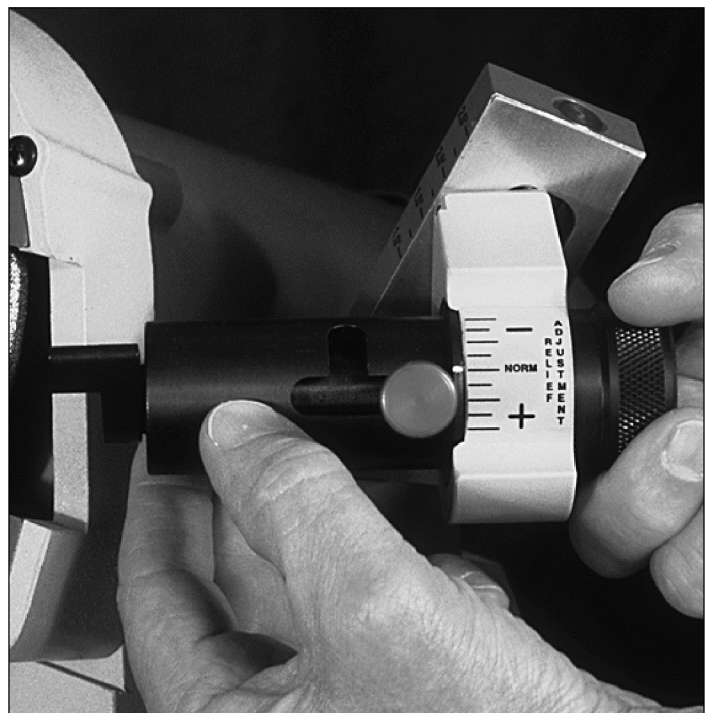
1. Set alignment to the size of drill to be sharpened by loosening the knurled knob (A), slide the fixture up or down to set the arrow with the appropriate mark on the decal to the drill size. Then tighten the knob.

Fig. 1



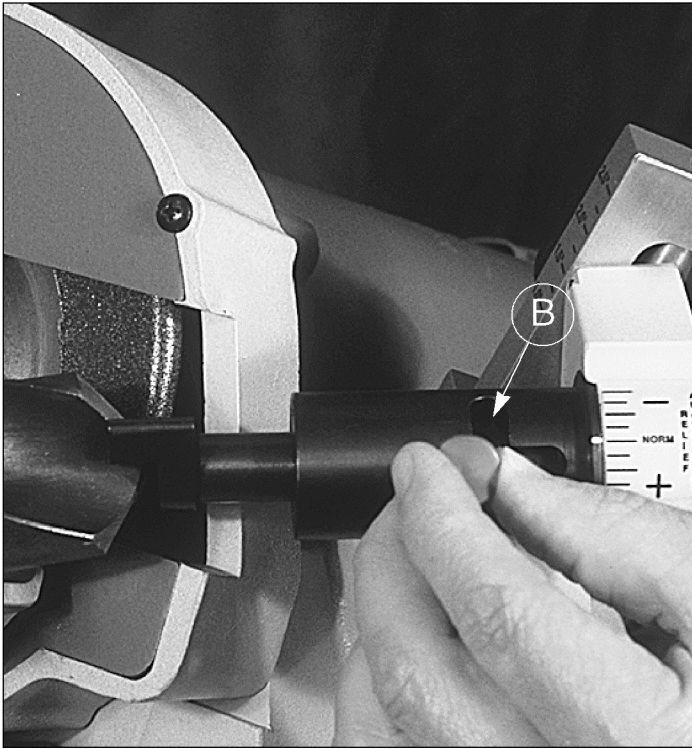
2. Changing relief on the drill may be done as follows: Loosen the Drill Relief Knob, and rotate the alignment body to either plus or minus depending upon which you wish, more or less relief. Moving the alignment body one line will change the relief approximately 4 degrees on 1 1/4" drill. The relief change will lessen as the drill size increases.

Fig. 2



3. Extend alignment plunger all the way toward the drill point and lock by pushing in on Pin "B".

Fig. 3

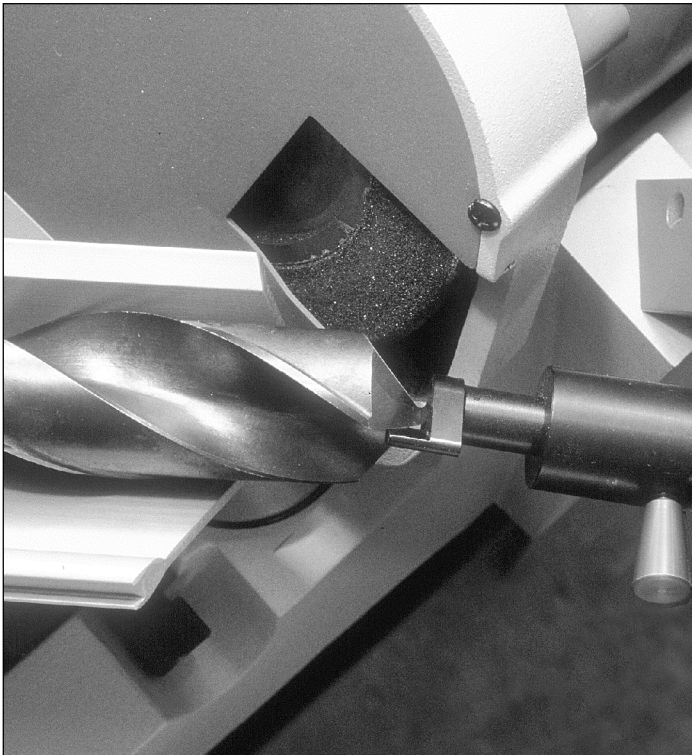


4. Insert the drill to be sharpened into the cradle. Push all the way until the tip touches the alignment pawl. Rotate the drill so the cutting lip is flat against the pawl ear.

**NOTE:**

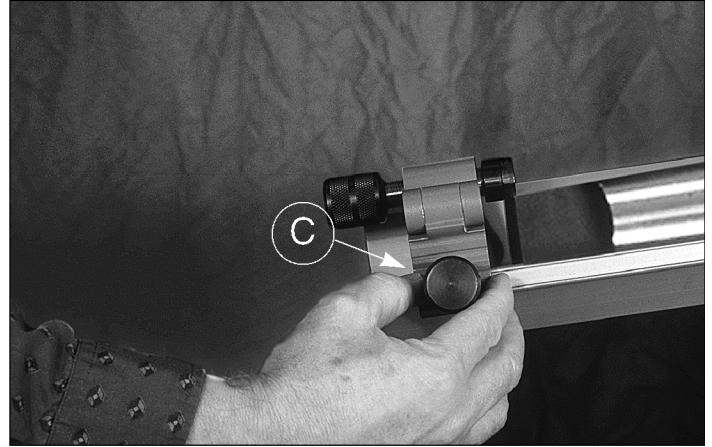
To sharpen drills under 1" in size, or Morse taper drills that have the taper larger than the drill itself shims are supplied to accommodate this situation, See page 8 under "SHIMS".

Fig. 4



5. Slide drill stop toward drill until stop plate is against drill shank and tighten lock knob "C".

Fig. 5



**Keep your BK65 Drill Sharpener clean and properly maintained. Frequently empty the magnetic grit tray on the left side of the sharpener. Or insert a vacuum hose into the port provided.**

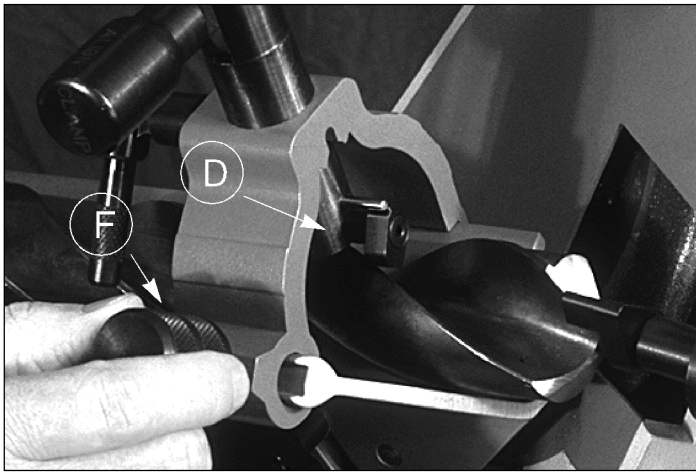
6. Move drill clamp handle to right for the align position. Loosen the drill clamp shaft knob and lower shaft down until it contacts the drill.

Fig. 6



- Loosen drill clamp lock knob (F), slide the clamp to the flute nearest to the drill shank, making sure that the dog rests at the edge of the flute (D).

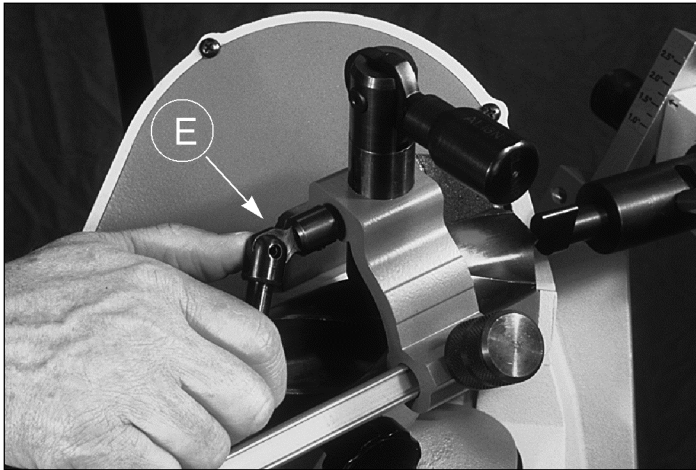
Fig. 7



- Tighten the clamp lock knob, (F).

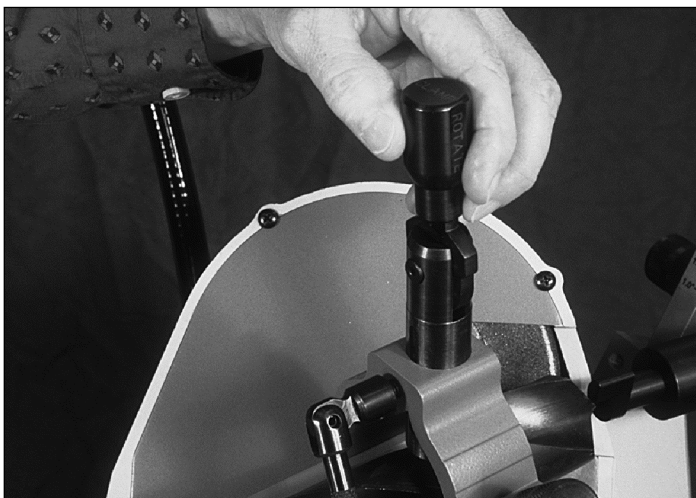
- Tighten drill clamp shaft knob, (E).

Fig. 8



- Secure drill by moving the drill clamp handle to the straight up position. Disengage the alignment lock pin by pulling it out and moving the plunger away from the drill. Turn the motor on.

Fig. 9

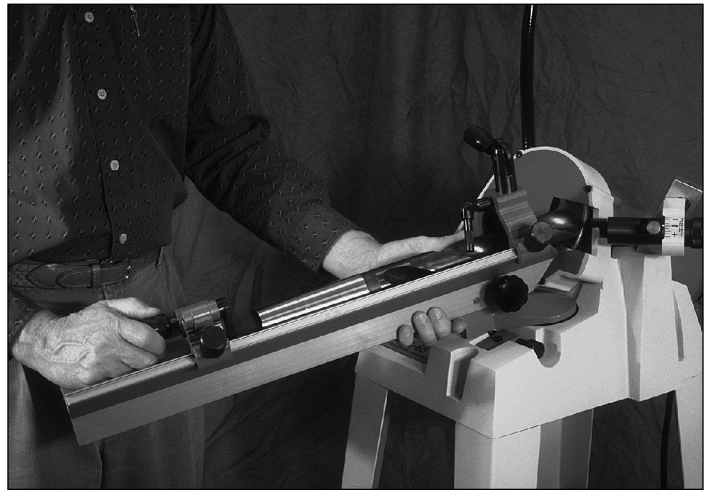


## 11. GRINDING THE DRILL:

Hold the drill bit cradle with the right hand and slowly move it to the right, (at this point it should not touch the wheel), now pivot it back to the left. Move the drill clamp handle to the "Disengage" position. Turn the feed knob approximately 1/4 turn clockwise, now move the drill clamp handle to the "Clamp" position. Swing the cradle to the right again, which will move the drill tip into the wheel to grind it. Swing left and right until the grinding process is complete on one side. Repeat the feed process if you need to take more material off.

NOTE: Do not feed the drill bit too much on the initial grinding. Because the feed knob positions the drill bit for "both sides" of the drill point, over feeding on the first side may cause over grinding on the opposite side. The unwanted result may be extreme heat buildup or drill point burning on the second side of the drill point.

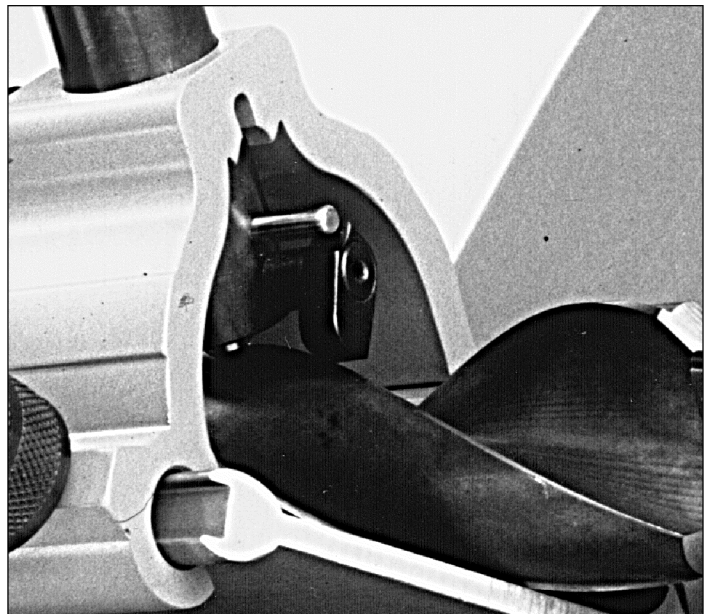
Fig. 10



- Pull cradle all the way to the left until it locks in the ball detent. Move drill clamp handle to the rotate position to loosen the drill in the cradle.

Rotate the drill clockwise until the flute alignment dog falls into the opposite flute, then rotate it the opposite direction until dog is touching the edge of the flute. See fig below.

Fig. 11

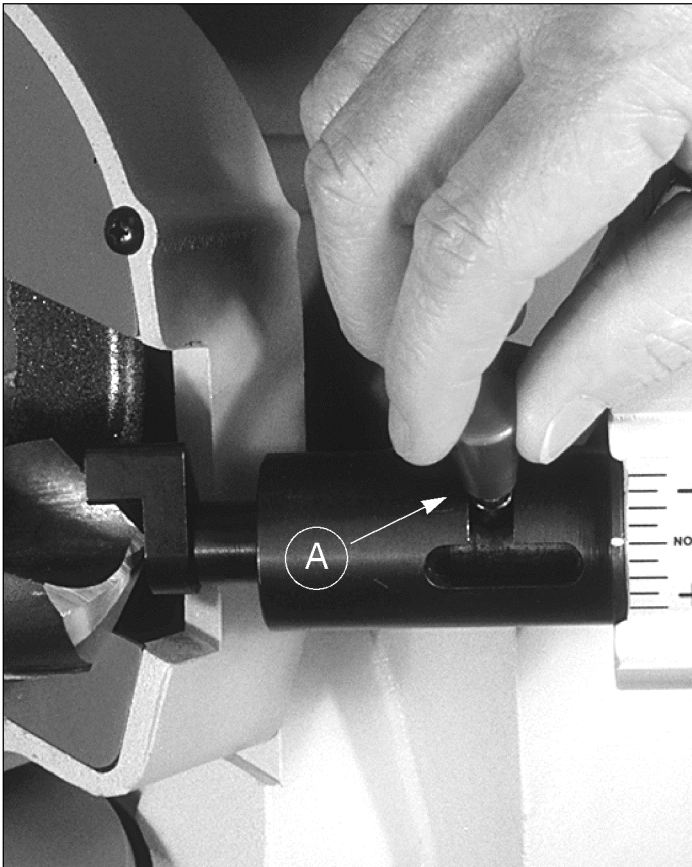


13. Move the drill clamp handle to the vertical position to secure the drill. Grasp the cradle and swing it to the right slowly, then back and forth until grind is complete. (Note: Do not feed drill on this second grind.) The drill point is now sharpened.

## THINNING THE WEB

1. Move the drill clamp handle to the rotate position, unlocking the drill. Loosen the clamp lock knob, (see F, previous page), move the drill clamp assembly toward the point of the drill about 1 inch. Move the alignment pawl pin to the web thin position and push it in to lock, "A".

Fig. 1



2. Rotate the drill so the cutting lip touches the pawl ear. Loosen the feed lock knob and slide the drill stop plate up to and against the shank of the drill, tighten the feed lock knob. (See Fig. 5, page 5).

Fig. 2



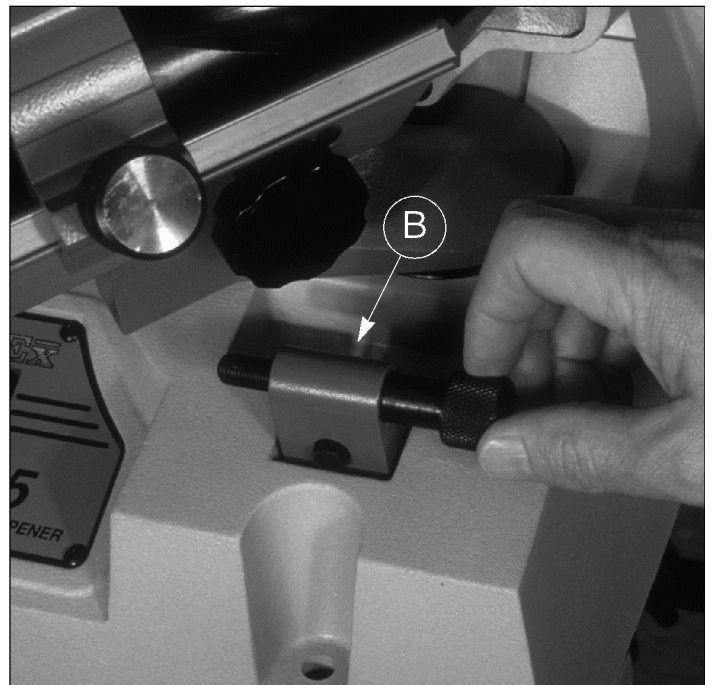
3. Slide the drill clamp toward the drill shank until the flute alignment dog touches the land of the drill, then tighten drill clamp knob.

Fig. 3



4. Rotate drill clamp handle to the vertical position to lock drill down. Pull alignment pin out and move pawl away from drill tip. Lift web thin stop (B) up and toward you, and turn adjustment knob clockwise enough to prevent the drill from touching the wheel. Turn machine on.

Fig. 4



**Always wear safety glasses when sharpening drills with the BK65 or any open wheel cutting tool sharpener or grinder.**

## THINNING THE WEB CONT.

- Carefully and slowly pull cradle to the right, watching drill point. Now turn web thin knob "Counter Clockwise" until drill begins to grind on wheel and thin the web. (See "Web Thinning Procedures"). Continue turning knob and removing material, making sure to back away periodically to let drill cool. Remove material of an amount to approximately 1/2 of the web thin amount or less. When finished, move cradle to the left until it stops and is held by the ball detent.

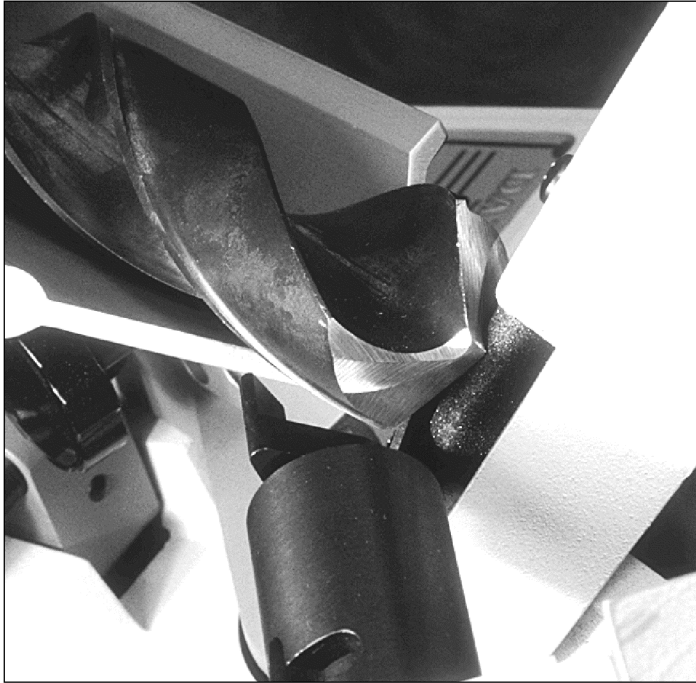
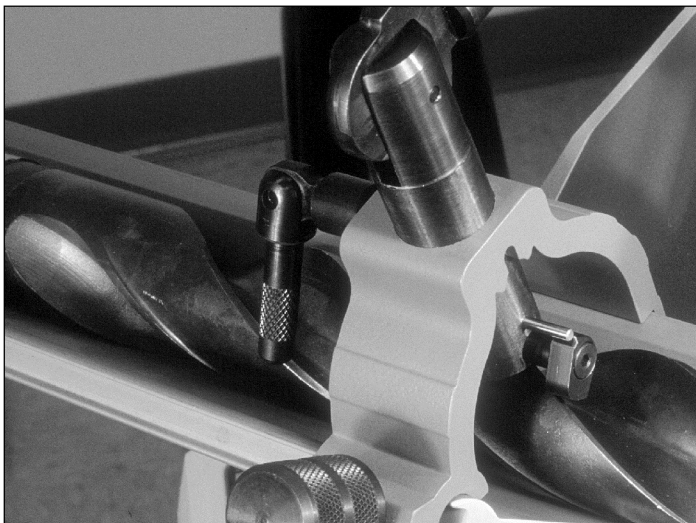


Fig. 5

- Move Drill Clamp Handle to the rotate position to loosen drill. Rotate drill 180° until the flute alignment dog falls into the opposite flute, then rotate it in the opposite direction until the dog is touching the edge of the flute. (Fig 6.) Move Drill Clamp Handle to the vertical position to lock drill down. Slowly move cradle to the right again, carefully grinding the other side of the drill tip. (Note: Do not adjust the web thin stop knob.) Remove material until the cradle is stopped by the web thin stop screw. You have now completed the web thin.

Fig. 6



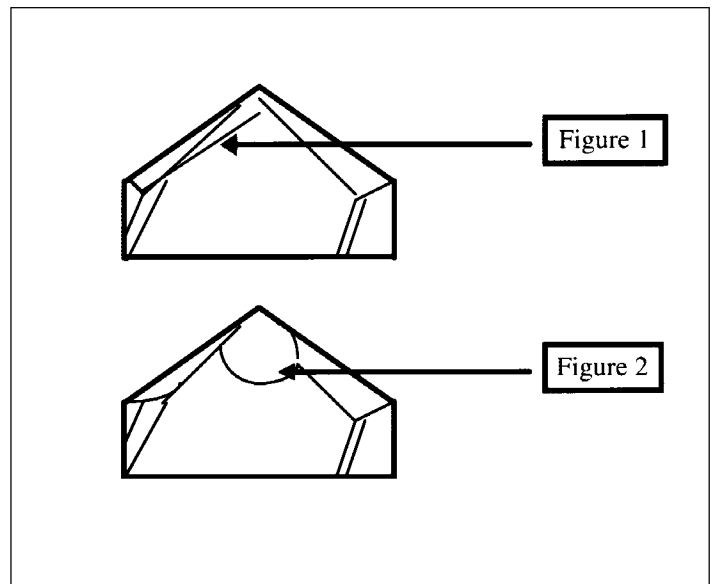
- Turn machine off. Rotate drill clamp handle to align position to loosen drill. Flip drill stop up and out of cradle. Pull drill out from the back end of the cradle.

## WEB THINNING PROCEDURES

The twist drill is designed in such a way that the web thickness increases toward the shank. In grinding drills it is sometimes necessary to thin the drill web. This is done in order to obtain improved centering and lowering drilling thrust. The chisel edge carries approximately 60 to 70% to the total thrust in drilling. Consequently, it is very beneficial to thin the web after the drill has been repeatedly sharpened. The illustrations below show a couple web thinning styles. However, the BK65 will normally thin the web as shown in Fig. 1. If you wish to thin the web to appear as in Fig. 2, merely rotate the cutting lip approximately 1/16" to 1/8" away from the alignment pawl ear.

For drilling steel, the point should be thinned so that the web is about 10% the drill's diameter. When drilling light alloy metals and brass alloys, the amount should be 12 - 14% the drill's diameter.

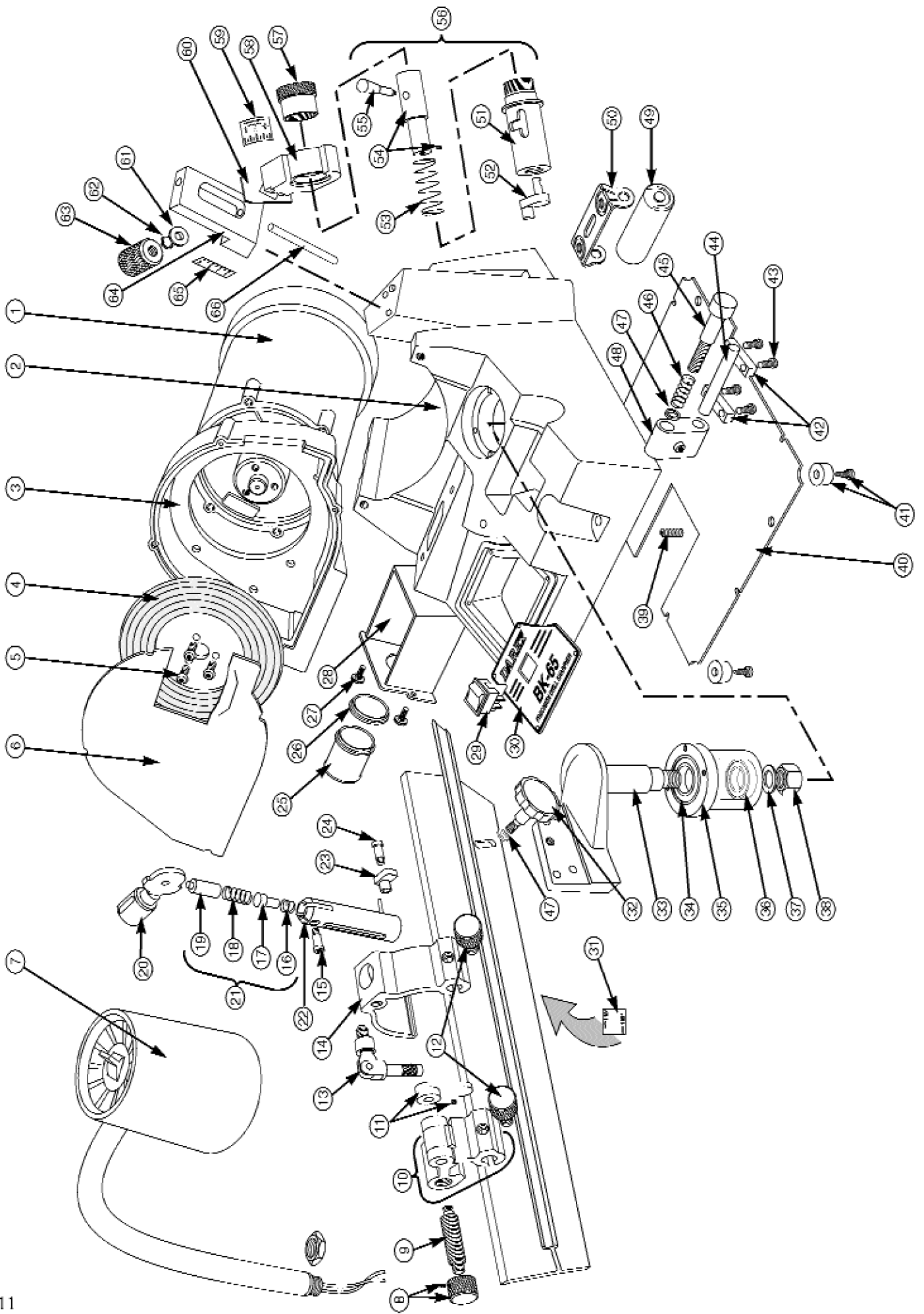
Fig. 1-2



## SHIMS: SMALL DRILLS & MORSE TAPER DRILLS

Shims have been included with the BK-65 to accommodate drills under 1" down to 3/4" in size. Also, for Morse taper drills that the taper portion is larger than the drill itself. How to use the shims: For drills between 3/4" and one inch sizes, insert the longest shim between the drill and the cradle. For short drills use the short shim. Make sure the shim does not protrude beyond the area of the drill that is to be sharpened, so as not to grind the shim. Align the drill as described on page 4 & 5. Set to the appropriate mark for the drill size to be sharpened. Note the dual marks on the decal. For example the mark for the drill of 3/4" size will be on the same line as the 1" mark. The procedures for the alignment and grinding will stay the same as shown in the manual.





### BK65 Parts List

# ON DWG	PART #	DESCRIPTION	PRICE	# ON DWG	PART #	DESCRIPTION	PRICE
1	SA07050MA	115V MOTOR/HUB ASSEMBLY	\$240.00	40	SA07056EA	ELECTRICAL COVER PLATE W/SCREWS	\$22.00
1	SA07052MA	230V MOTOR/HUB ASSEMBLY	\$260.00	41	SA08664PA	BASE RUBBER FEET W/SCREWS (4)	\$10.00
2	PP07000CF	BK BASE CASTING	\$250.00	42	PP03918BF	P.S. ARBOR RETAINING PLT	\$3.00
3	PP07020CF	MOTOR WHEEL GUARD CASTING	\$89.00	43	PP08632FF	10-32X3/8 BHCS	\$1.00
• 4	PP07060GF	BK WHEEL - PLATED 60 GRIT CBN (STANDARD)	\$239.00	44	PP07042BF	PIVOT SHAFT	\$8.00
4	PP07064GF	BK WHEEL - PLATED 80 GRIT DIAMOND	\$239.00	45	PP07044TF	STOP SCREW	\$12.00
4	PP07062GF	BK WHEEL - PLATED 40 GRIT CBN	\$319.00	46	PP07046FF	STOP SCREW SPRING	\$7.00
• 5	SA07058FA	BK WHEEL MTG SCREWS (3pcs) 1/4x20x3/4 BHCS	\$3.00	47	PP07048RF	3/8 STAINLESS STEEL F/W	\$1.00
6	SA07055SA	WHEEL GUARD COVER W/SCREWS	\$18.00	48	SA07040BA	PIVOT ARM W/STOP	\$12.00
7	PP05868EF	M5/E90/BK65 LAMP (MOFFAT)	\$29.00	• 49	SA07051MA	115V CAPACITOR W/CAP	\$10.00
8	SA07106TA	LOCK KNOB W/SET SCREW	\$9.00	49	SA07053MA	230V CAPACITOR W/CAP	\$12.00
9	PP07196TF	DRILL STOP FEED SCREW	\$12.00	50	PP07049MF	230V CAPACITOR CLAMP	\$5.00
10	SA07192XA	DRILL STOP EXTRUSION ASSMBLY	\$29.00	50	PP07057MF	115V CAPACITOR CLAMP	\$5.00
• 11	SA07198BA	DRILL STOP PLATE ASSEMBLY	\$12.00	51	PP07122TF	ALIGNMENT BODY	\$36.00
• 12	SA07108TA	LOCK KNOB/SCREW ASSEMBLY	\$8.00	• 52	PP07134BF	ALIGNMENT PAWL	\$18.00
• 13	SA07158TA	CLAMP PIN HANDLE ASSEMBLY	\$29.00	53	PP02028RF	TIMING SHAFT SPRING	\$4.00
14	PP07160XF	DRILL CLAMP EXTRUSION	\$24.00	54	SA07126TA	ALIGNMENT SHAFT W/SET SCREW	\$18.00
15	PP02072FF	1/4X1/2 SHLDR 10-24X1/4 SOCKET SHOULDER BOLT	\$2.00	55	SA07128TA	INDEX PIN/KNOB/SLEEVE	\$14.00
16	PP07176RF	CLAMP PIN RETRACT SPRING	\$5.00	• 56	SA07105BA	ALIGN HOUSING/SHAFT ASSEMBLY	\$95.00
17	PP07174TF	CLAMP PIN	\$10.00	57	PP07124TF	DRILL ADVANCE KNOB	\$10.00
18	PP07172RF	PLUNGER SPRING	\$5.00	58	PP07100BF	ALIGNMENT HOUSING	\$24.00
19	PP07170TF	PLUNGER	\$10.00	59	PP07140DF	BK RELIEF DECAL	\$3.00
20	PP07166TF	DRILL CLAMP CAM	\$28.00	60	PP07120SF	NYLON SLIDE PLATE	\$6.00
21	SA07174TA	CLAMP PIN/PLUNGER/SPRING SET	\$32.00	61	PP07112TF	DELFIN SLIDE WASHER	\$1.00
22	SA07164TA	DRILL CLAMP SHAFT W/PIN	\$24.00	62	PP02066RF	3 WAVE OVERLAP SPRING	\$2.00
• 23	PP07180TF	FLUTE ALIGNMENT DOG	\$9.00	63	PP07101TF	ALIGNMENT HOUSING LOCK KNOB	\$9.00
• 24	PP02072FF	1/4X1/2 SHLDR 10-24X1/4 SOCKET SHOULDER BOLT	\$2.00	64	SA07100BA	ALIGN BRACKET W/SET SCREW	\$24.00
25	PP02175TF	GRIT TRAY VACUUM TUBE	\$5.00	65	PP07136DF	INCH HEIGHT DECAL	\$8.00
26	PP02176PF	DOME PLUG 1.375 BLK	\$1.00	65	PP07138DF	METRIC HEIGHT DECAL	\$3.00
27	SA02174PA	GRIT TRAY SCREW & KNOB (2)	\$3.00	66	PP07113TF	ALIGNMENT HOUSING SHAFT	\$8.00
28	SA07072SA	BK GRIT TRAY W/LINER	\$36.00	Not Shown	PP07146XF	4" CRADLE SHIM EXTRUSION	\$3.00
29	PP02166EF	115V SWITCH SERIES 50	\$8.00	Not Shown	PP07148XF	6" CRADLE SHIM EXTRUSION	\$4.00
29	PP02167EF	230V SWITCH SERIES 50	\$8.00	Not Shown	SA07150XA	DRILL CRADLE ASSEMBLY	\$89.00
30	PP07026DF	BK SWITCH PLATE	\$18.00	Not Shown	SA07152XA	SHORT DRILL CRADLE	\$99.00
31	PP07156DF	POINT ANGLE DECAL	\$3.00	Not Shown	SA07140SA	BK STAND ASSEMBLY	\$149.00
32	SA07154TA	CRADLE LOCK SCREW/KNOB	\$8.00				
33	SA07010CA	SWING CASTING W/ARBOR	\$35.00				
34	PP07009LF	1"ID X 2"OD X 3/8" DOUBLE SEALED BEARING	\$8.00				
35	PP07006TF	BEARING HOUSING	\$28.00				
36	PP07008LF	3/4"ID X 1 3/4" OD X 1/2" WIDE DBL SEALED BEARING	\$6.00				
37	PP07016FF	SAE 5/8 F/W 3/32 THICK	\$1.00				
38	PP07018FF	5/8-18 HEX RETAINING NUT	\$1.00				
39	PP07004FF	BALL AND SPRING PLUNGER	\$8.00				

• Suggested Dealer Stock Parts