



724 Robbins Road, Grand Haven, MI 49417 Phone: 616-842-7110 800-937-3253

Fax: 616-842-0859 800-846-3253

Web: [www.dakecorp.com](http://www.dakecorp.com) E-mail: [customerservice@dakecorp.com](mailto:customerservice@dakecorp.com)

# SB-25V Drill Press

## OWNERS MANUAL

FOR YOUR OWN SAFETY AND  
OPTIMUM OPERATION READ  
INSTRUCTION MANUAL BEFORE  
OPERATING DRILL PRESS  
RETAIN THIS MANUAL FOR  
FURTHER REFERENCE.

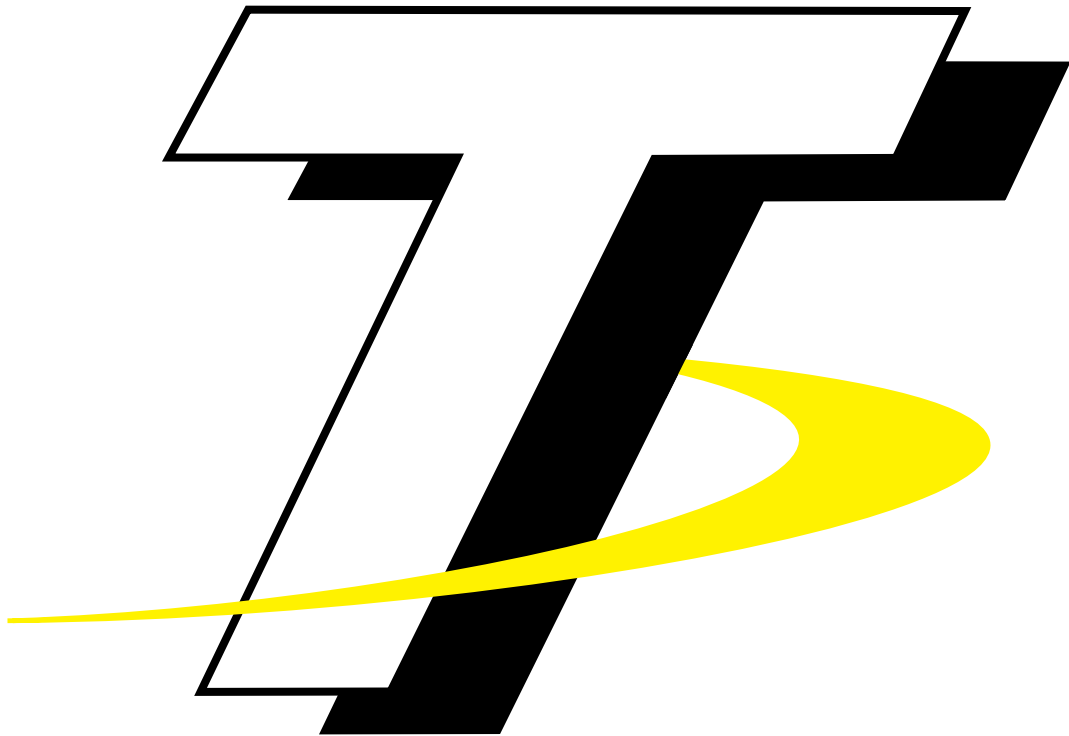


Model: SB-25V

Distributed by: **Trick-Tools.com**

Trick-Tools  
75 Truman Road  
Pella, IA 50219

Phone: 1-877-VAN-SANT  
E-mail: [sales@trick-tools.com](mailto:sales@trick-tools.com)



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## MODEL AND SPECIFICATIONS

| Machine Specifications: | Model SB-25  |
|-------------------------|--------------|
| Drill Type              | Floor        |
| Max. Drill Capacity     | 1"           |
| Spindle Taper           | MT3          |
| Spindle Travel          | 5"           |
| Max. Work Diameter      | 18"          |
| Speeds (Step Pulley)    | 9            |
| Spindle Speed Range     | 270-2000     |
| Column Diameter         | 3-5/8"       |
| Table                   | 14 x 14"     |
| Base                    | 23-1/2 x 15" |
| Spindle to Table        | 28-1/4"      |
| Spindle to Base         | 49-1/8"      |
| Motor                   | 2 HP         |
|                         |              |
| Voltage                 | 110V         |
| Overall Height          | 71"          |
| Weight                  | 422 lbs.     |

### Uncrating and installation

1. Location of the drill press should be in a well-lit area with correct power supply.
2. Carefully uncrate machine from crate. Inspect all packing as not to throw out any parts or manuals.
3. When transporting the machine please use caution. If using a sling have someone steady the machine while transporting it.
4. Install your drill press on a sturdy level floor surface. The machine must be anchored to the floor. Machine is top heavy.
5. Connect appropriate power to the machine (see electrical diagram last page of manual). Make sure circuit breakers are suitable for the machine. Consult local codes for proper installation of machine. Always route power cables in a safe manner away from traffic areas, damp areas, heat and moving parts.
6. After installing the drill press, use a degreasing product to clean off the anti-rust oil which was applied at the factory. Then wipe machined surfaces with a light coating of lubricant oil. (Way oil)
7. Check for damaged parts. Before further use of the machine, a guard or other part that is damaged should be replaced or repaired. Carefully check to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of

moving parts. Breakage of parts or mountings and any other conditions that affect its operation.

## **SAFETY**

1. Keep guards in place and in working order.
2. Remove adjusting key and wrenches. Be in the 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. Do not use in dangerous environments. Do not use power tools in damp or wet locations or expose them to rain. Keep work area well light.
5. Do not force tool. It will do the job better and safer at the rate for which it was designed.
6. Use the right tool. Do not force the tool, or use the machine to do a job for which it was not designed.
7. Wear proper apparel. No loose clothing, gloves, necktie, rings or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
8. Always use safety glasses. Also use face or dust mask if cutting operation is dusty.
9. Secure work. Use clamps or a vise to hold work. Do not hold part with hands.
10. Do not overreach. Keep proper footing and balance at all times.
11. Maintain tools with care. Keep tools sharp and clean for best and safest performance.
12. Disconnect drill press from power before servicing, when changing accessories such as bits, cutter ...etc.
13. Never stand on machine, or serious injury could occur.
14. Never leave machine running unattended.
15. Be sure drill bit or cutter tool is securely locked in the chuck. Do not hold part to be machined in hand.
16. Never place your fingers in a position where they could contact the drill or other cutting tool if the work piece should unexpectedly shift.
17. Never perform any operation by moving the head or table with respect to one another. Do not switch machine on or start any operation before checking that the head and table lock handles are clamped tight to column, and head and table support collars are correctly positioned.

## **WARNING!!!**

Extension cords and surge protectors are not recommended for this product. Ground fault circuit interrupters (GFCI) should not be used. **DO NOT TAMPER WITH WIRING OR SETTINGS INSIDE THE FREQUENCY DRIVE.**

Do not open any cover or remove any guard without proper lockout of equipment.  
Only a qualified electrician with proper PPE should perform electrical work on this equipment.

Some components in this equipment may store electricity.

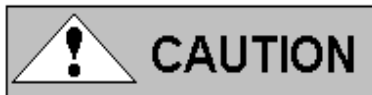
## **BEFORE USE, ALL SAFETY POINTS MUST BE READ AND UNDERSTOOD!**



Operation of the drill press incorrectly, or in a dangerous fashion can result in serious injury or death.



Operation of the drill press incorrectly, or in a dangerous fashion can result in damage to machine or its components and to the cutting tool.



Intend use:

The DRILL PRESS is designed to for drilling, boring and tapping operations. Caution is required when operating the drill press because it can be dangerous due to the high spindle rotation speed. Operation hazards such as entanglement, shearing, ejection parts ....etc. Guards such as pulley cover and chuck guard must in place and working condition to prevent any hazard.

Please think about the safety warnings in the instruction manual before operating the machine

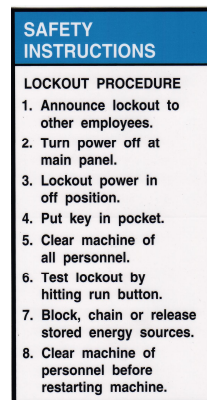
### **Safety stickers**



82199



300168



84605



84395

**Familiarize yourself with the controls before operating.**

### **Emergency stop button**

When this is pressed the power to the motor and controls is disconnected. The frequency drive stores energy this will remain lit for about 20 seconds.

### **Spindle direction**

Turn the spindle direction switch to the desired direction forward, reverse or stop. If the emergency stop button is pushed or if the power is lost you will have to move this to stop (TO RESET) then to desired spindle direction.

### **Stop**

This is used when you would like the spindle to stop.

### **Forward**

This is used for standard drilling and tapping operations

### **Reverse**

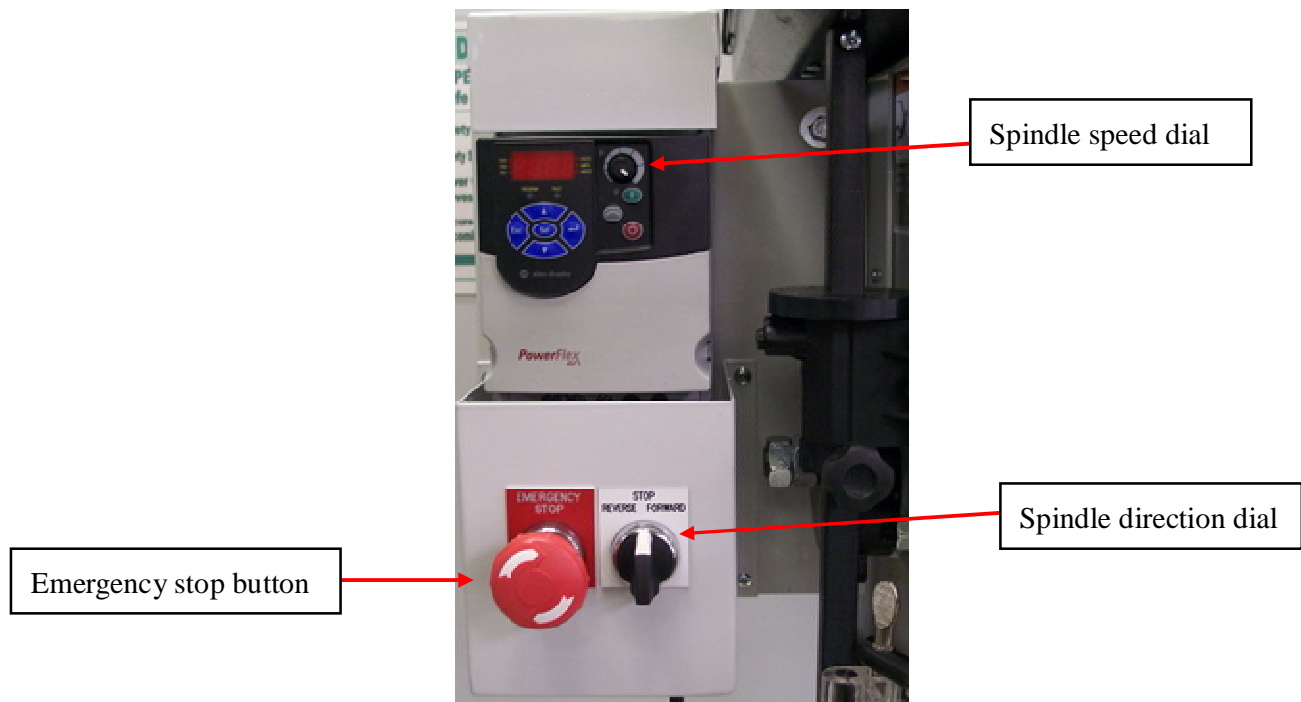
This is used for left hand tapping and to retract a tap during tapping operations.

### **Spindle speed**

The black dial in the upper right hand corner controls the spindle speed. This will change the speed in forward and reverse directions.

### **Warning!!!**

**Avoid stopping the motor under load or stalling the motor. This could damage the electrical components.**



## **Tapping operations using the reverse feature**

1. Drill the initial hole on the drill press for accuracy of diameter. If the diameter is 1/2 inch or larger, drill a pilot hole about half that diameter first.
2. Make sure the hole has a large enough chamfer. If the chamfer is too small the tap will work a little hard when starting the tapping operation.
3. Select the tap type. Choose from a taper tap (**recommended**), plug tap or bottoming tap. The taper tap has several chamfer threads forming a tapered cone on the inserting end. The plug tap has fewer chamfer threads and a bottoming tap only has a couple chamfer threads.
4. Match the tap size. Use the specified tap size to thread the hole diameter. Taps that are sold with drill bits are size matched for you. The taps themselves may show the hole size they're intended for, but it's likely to be given in metric notation. Use a conversion chart to match this with the inch fractions measuring drill bits.
5. Cut the threads. Lubricate the tap with tapping fluid. Start the drill press and lower the tap gently into the hole to be threaded. It only takes a few seconds to tap a hole. When the tap gets to the desired depth reverse the direction of the spindle and the tap will work its way out. As long as it has been set up properly, the chances are good for success.

### **Tips for tapping**

Tapping is a skill. It takes practice to do it well and to not break taps. If you're new to tapping, practice on sample stock before tapping into your actual project

Materials have differing requirements for drill speed and lubrication. Hole depths and diameters may present additional drilling requirements. Refer to material charts for drilling specifications.



## 1. OPERATION (PROCEDURE)

**! DANGER:** To show greater detail Chuck guard is in the open position in photos. **CHUCK GUARD MUST IN PLACE DURING OPERATION!**



Table lock

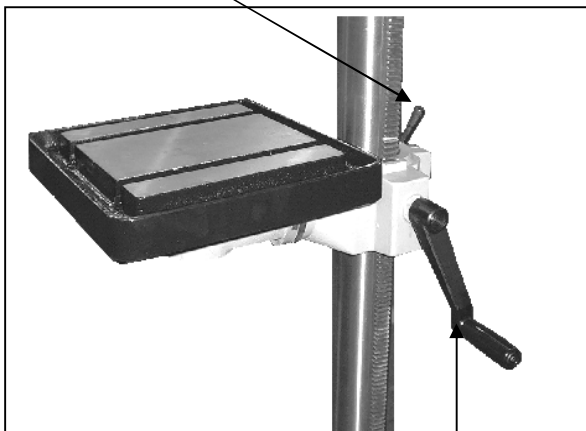


Table handle

### Drill / Chuck Installation:

**! DANGER:**  
**POWER MUST BE OFF BEFORE  
MAKING ANY ADJUSTMENTS!**

**TURN POWER OFF!** Before inserting drill bits, chucks or arbors, always clean out spindle hole and taper hole with a clean cloth.

Open chuck jaws completely by turning attached chuck key counter-clockwise until the jaws are fully opened.

To install the chuck to the arbor tightly, slide the chuck into the taper forcing it into the spindle with by hand. Place a block of wood on the table then lower the spindle to make contact with the wood and press the chuck tightly into the spindles taper.

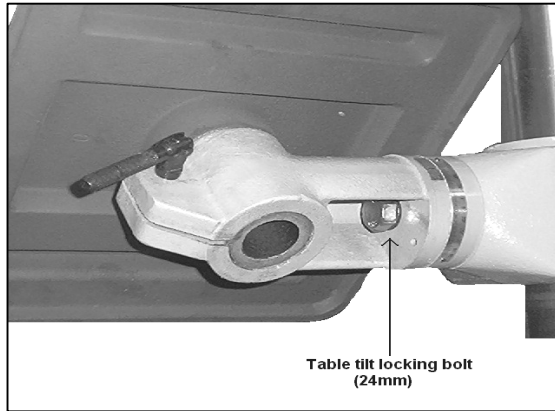
Install a taper shaft drill bit into the taper the same way as you would the chuck. If an adaptor is used it must fit the taper correctly and the bit must fit snug in the adaptor.

### Table height adjustment:

Table height adjustment is accomplished by loosening the clamp bolt then adjusting the table with the bracket handle to desired height. After table is at working height, retighten the clamp bolt securely.

Note: Keep table adjustment rack clean from debris. Never attempt to move table with clamp bolt tightened.

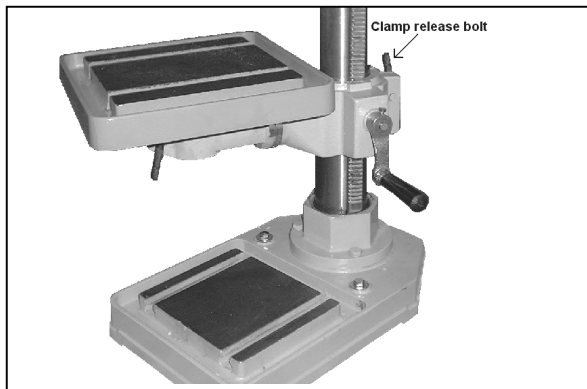
### Table tilting adjustment:



Using an adjustable or box wrench loosen table level lock bolt. Carefully tilt the table to the degree needed, as shown on the angle index scale located on the table rotation point. Retighten nut securely.

Note: Never tilt table if any material or fixturing is on it. Only make adjustments when table is free of loose articles.

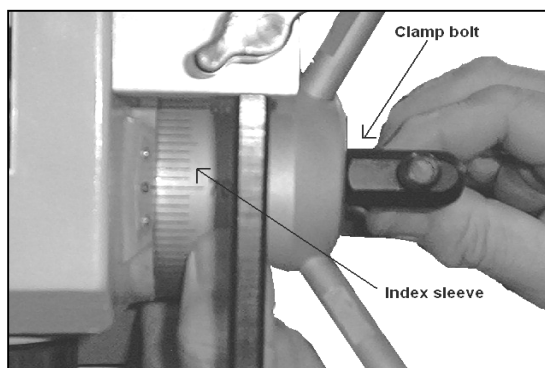
### Table swing adjustment:



To swing the table up to 360 degrees, loosen the clamp release bolt and swing table to the desired position. After the table is in the correct position tighten clamp release bolt securely.

Note: Never swing table if any material or fixturing is on it. Only make adjustments when table is free of loose articles.

### Feed depth adjustment:



Setting the feed depth adjustment is done by loosening the clamp bolt on the spindle depth index sleeve and rotating it to the desired depth.

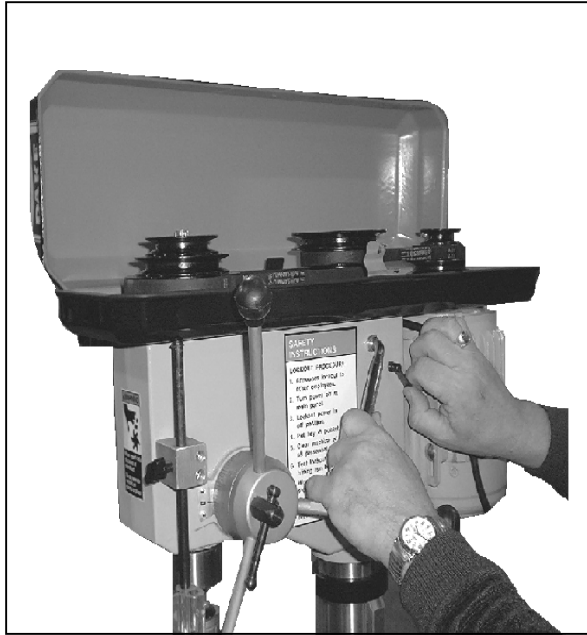
Retighten clamp bolt securely.

Note: Never make this or other adjustments when machine is running.



## **DANGER: TURN POWER OFF!**

Wait until machine has come to a complete stop before proceeding with speed change!



### **Speed adjustment:**

Open the pulley cover to expose the pulleys and drive belts.

Loosen the belt tension lock handles.

Choose the proper speed for the drilling operation. Move the belt to the correct step of the pulleys for the desired speed. (See diagram on page 8)

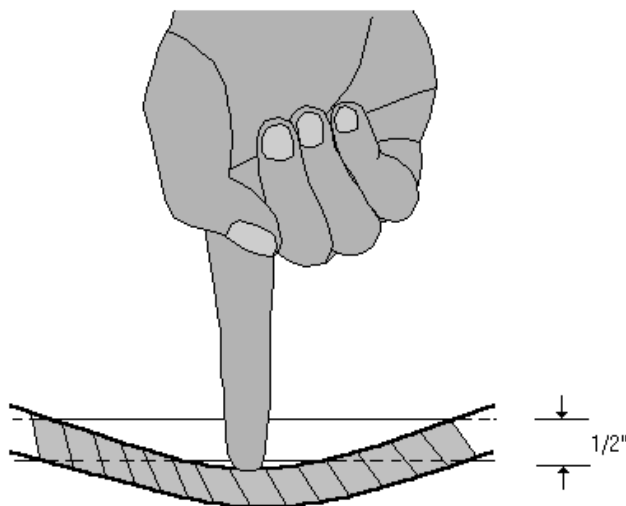
Push the motor backwards until proper belt tension is applied. (1/2" deflection as shown below speed selection chart in this manual)

Retighten belt tension lock handle.

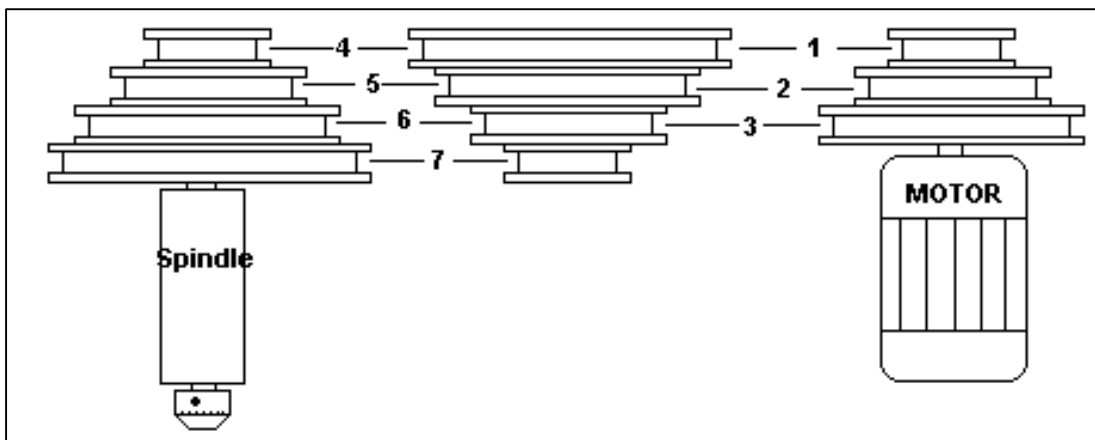
**NOTE:** If center pulley bracket does not move freely, loosen spring loaded bolts 1/2 - 3/4 turns.

### **BELT TENSION ADJUSTMENT**

Proper belt tension is approx. 10 lbs. of pressure or deflection of about 1/2 "



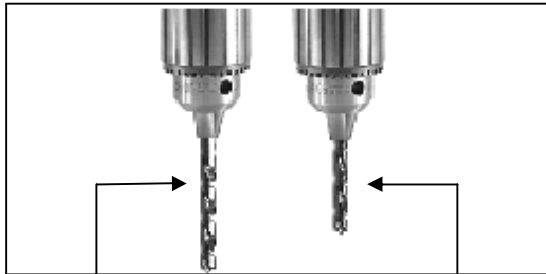
## SPEED ADJUSTMENT



| Model:       | SB-25V      |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pulley Steps | RPMs @ 10hz | RPMs @ 20hz | RPMs @ 30hz | RPMs @ 40hz | RPMs @ 50hz | RPMs @ 60hz | RPMs @ 70hz | RPMs @ 80hz | RPMs @ 90hz |
| 1 - 7        | 46          | 92          | 133         | 168         | 225         | 264         | 312         | 354         | 397         |
| 1 - 6        | 73          | 140         | 206         | 268         | 335         | 408         | 471         | 551         | 602         |
| 2 - 7        | 79          | 152         | 225         | 302         | 378         | 457         | 530         | 610         | 680         |
| 1 - 5        | 98          | 199         | 305         | 395         | 502         | 593         | 695         | 795         | 888         |
| 2 - 6        | 120         | 231         | 348         | 463         | 576         | 690         | 806         | 922         | 1032        |
| 3 - 7        | 128         | 245         | 370         | 476         | 573         | 700         | 872         | 985         | 1104        |
| 2 - 4        | 255         | 509         | 745         | 988         | 1241        | 1489        | 1722        | 1960        | 2194        |
| 3 - 5        | 287         | 572         | 846         | 1110        | 1401        | 1665        | 1948        | 2220        | 2469        |
| 3 - 4        | 415         | 810         | 1205        | 1598        | 2007        | 2404        | 2780        | 3201        | 3550        |

The proper drill speed for a given drill bit size is as on following table:

| Material Type | Cast Steel                     | Tool Steel | Cast Iron | Mild Steel | Alum. & Copper |
|---------------|--------------------------------|------------|-----------|------------|----------------|
| Drill Dia.    | <b>SURFACE FEET PER MINUTE</b> |            |           |            |                |
|               | s.f.m.                         | s.f.m.     | s.f.m.    | s.f.m.     | s.f.m.         |
|               | 40                             | 60         | 80        | 100        | 200            |
| Inch          | <b>REVOLUTIONS PER MINUTE</b>  |            |           |            |                |
| 1/16          | 2,445                          | 3,665      | 4,890     | 6,110      | 12,225         |
| 1/8           | 1,220                          | 1,835      | 2,445     | 3,055      | 6,110          |
| 3/16          | 815                            | 1,220      | 1,630     | 2,035      | 4,075          |
| 1/4           | 610                            | 915        | 1,220     | 1,530      | 3,055          |
| 5/16          | 490                            | 735        | 980       | 1,220      | 2,445          |
| 3/8           | 405                            | 610        | 815       | 1,020      | 2,035          |
| 7/16          | 350                            | 525        | 700       | 870        | 1745           |
| 1/2           | 305                            | 460        | 610       | 765        | 1,530          |
| 5/8           | 245                            | 365        | 490       | 610        | 1,220          |
| 3/4           | 205                            | 305        | 405       | 510        | 1,020          |
| 7/8           | 174                            | 261        | 348       | 435        | 762            |
| 1             | 153                            | 229        | 306       | 382        | 668            |
| 1-1/8         | 136                            | 204        | 272       | 340        | 595            |
| 1-1/4         | 122                            | 167        | 244       | 306        | 535            |



Correct: Jaws  
contact drill shaft

Incorrect: Jaws  
contact drill flutes

### Installation of drill bits in the chuck:

A drill bit with a shaft of at least 1" long should be used to allow correct chuck jaw contact. If shaft length is less than 1" do not insert bit as far into the chuck where it allows jaw contact with drill flutes.

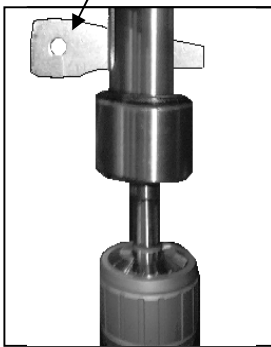
Center drill bit into the chuck and tighten the chuck securely with the chuck key.

**Note:** Always use sharp, straight bits. Never use bits with turned down shafts. Never exceed the maximum diameter bit size for the machine.

Always wear appropriate clothing while operating the drill press.

All guards and interlocks must be in place when operating the machine.

Wedge removal tool



### Tooling removal:

Before removing the chuck or bit from the machine; be sure the spindle has come to a complete stop and power is off. If needed rotate spindle by hand to align the spindle and quill openings. Insert the wedge removal tool, while supporting the tooling tap the wedge to remove the tooling.


### Work holding:

When drilling directly on table surface, it is recommended that a piece of wood or plywood be clamped securely to table under the work piece. This will minimize splintering or burring as the drill breaks through. It will help minimize drill bit and table damage.

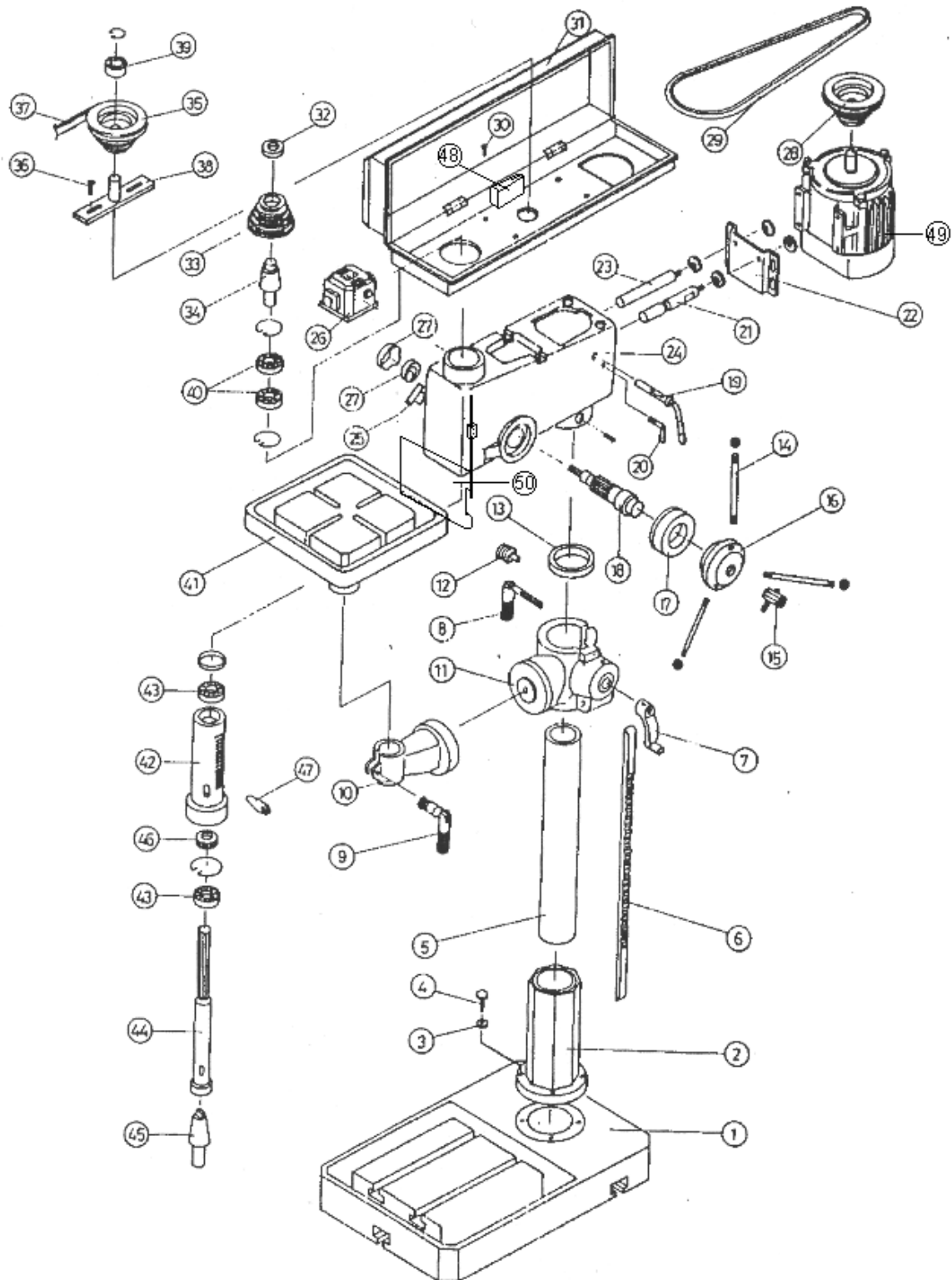
Clamp the work piece to the table whenever possible. The table has "T" slots that allow for many different clamping configurations.

When part cannot be affixed to the table a drill vise that is bolted to Instructions page

## 2. MAINTENANCE OF MACHINE

| MAINTENANCE   |  CAUTION |
|---|---|
| <ol style="list-style-type: none"><li>1. On a regular basis blow out any dust that may accumulate inside the motor. (Frequency depends on environment the machine is in)</li><li>2. A coat of automotive wax applied to the table and column will help to keep the surface clean.</li><li>3. All of the ball bearings are packed with grease at the factory. They require no further lubrication.</li><li>4. Periodically lubricate the gear and rack table elevation mechanism, the spindle splines and the rack (teeth on the quill).</li><li>5. After each use the machine should be cleaned. Weekly lubrication of all sliding or moving parts with light weight or way oil is recommended. For your own safety, turn switch "OFF" and remove plug from power source outlet before maintaining or lubricating your drill press.</li></ol> |   |

# SB 25V



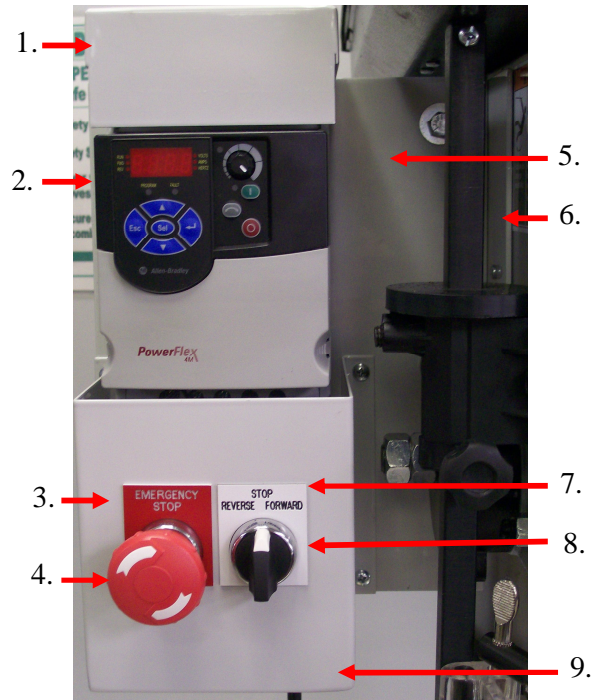


## PARTS LIST for SB-25 / SB-32

| Item No. | Description        | SB-25  | SB-32  | Item No. | Description                               | SB-25  | SB-32  |
|----------|--------------------|--------|--------|----------|---|--------|--------|
| 1        | Base               | 301040 | 301041 | 27       | Spring & Cap                              | 301063 | 301064 |
| 2        | Flange             | 301042 | 301043 | 28       | Motor Pulley                              | 301065 | 301065 |
| 3        | Spring Washer (4x) | 13 mm  | 13 mm  | 29       | Belt                                      | 301066 | 301066 |
| 4        | Screw              | 300999 | 300999 | 30       | Screw (4x)                                | 300998 | 300998 |
| 5        | Column             | 301044 | 301045 | 31       | Pulley Cover                              | 301067 | 301068 |
| 6        | Rack               | 301047 | 301046 | 32       | Insert Pulley Nut                         | 301085 | 301086 |
| 7        | Handle             | 301048 | 301048 | 33       | Spindle Pulley                            | 301088 | 301087 |
| 8        | Clamp Bolt         | 301049 | 301049 | 34       | Insert Pulley Shaft                       | 302218 | 302217 |
| 9        | Clamp Bolt         | 301051 | 301051 | 35       | Middle Pulley                             | 301089 | 301090 |
| 10       | Table Arm          | 301052 | 301053 | 36       | Screw & Spring (2x)                       | 301092 | 301092 |
| 11       | Table Bracket      | 301055 | 301054 | 37       | Belt                                      | 301093 | 301093 |
| 12       | Worm               | 301056 | 301056 | 38       | Middle Pulley Shaft                       | 301094 | 301094 |
| 13       | Collar             | 301057 | 301058 | 39       | Bearing 6203Z                             | 300987 | 300987 |
| 14       | Feed Handle (3x)   | 301059 | 301059 | 40       | Bearing 6203Z                             | 300987 | 300987 |
| 15       | Lock Handle        | 301070 | 301070 | 41       | Table                                     | 301095 | 301096 |
| 16       | Feed Head          | 301069 | 301069 | 42       | Quill<br>25 model 2.42"<br>32 model 2.98" | 301098 | 301097 |
| 17       | Spindle Scale      | 301071 | 301072 | 43       | 6025Z & 6206Z<br>(SB-25) Bearing          | 300990 | 300990 |
| 18       | Feed Shaft         | 301073 | 301074 |          | 6006Z & 6208Z<br>(SB-32) Bearing          | 300989 | 300989 |
| 19       | Belt Adjust Handle | 301075 | 301076 | 44       | Spindle                                   | 301099 | 301100 |
| 20       | Wing Bolt          | 301077 | 301078 | 45       | Arbor                                     | 301101 | 301102 |
| 21       | Road - A           | 301079 | 301080 | 46       | Seal                                      | N/A    | N/A    |
| 22       | Motor Plate        | 301081 | 301081 | 47       | Wedge                                     | 301104 | 301103 |
| 23       | Road - B           | 301082 | 301083 | 48       | Belt Cover Interlock<br>Switch            | 300992 | 300992 |
| 24       | Head               | 301060 | 301084 | 49       | Motor                                     | 300996 | 300994 |
| 25       | Spring Base        | N/A    | N/A    | 50       | Plexiglas Chuck<br>Guard                  | 300995 | 300995 |
| 26       | Switch             | 301061 | 301062 | N/A      | Chuck 16mm                                | 301966 | 301966 |
|          |                    |        |        | N/A      | Key 16mm                                  | 301967 | 301967 |

## ADDITIONAL PARTS LIST

| Parts list |                                 |        |      |
|------------|---------------------------------|--------|------|
| Item #     | Part name                       | Part # | Qty. |
| 1          | Top cover                       | 87377  | 1    |
| 2          | Drive unit                      | 302704 | 1    |
| 3          | Name plate emergency stop       | 301904 | 1    |
| 4          | Emergency stop button           | 716538 | 1    |
| 5          | Back mounting plate             | 87378  | 1    |
| 6          | Bracket                         | 87382  | 1    |
| 7          | Name plate reverse stop forward | 302746 | 1    |
| 8          | Selector Switch                 | 302730 | 1    |
| 9          | Switch mounting box             | 87379  | 1    |



| Parts list items not shown                   |             |          |
|--|-------------|----------|
| Part name                                    | Part number | Quantity |
| Cord set with plug                           | 300529      | 1        |
| Motor grommet                                | 300540      | 1        |
| Contact block N.O.                           | 301782      | 2        |
| Metal latch                                  | 301785      | 1        |
| Cable 4 wire                                 | 302683      | 1        |
| Hex bolt for mounting bracket 5/16-18 x 3/4  | 43314       | 2        |
| washer for mounting bracket 5/16 flat        | 43632       | 2        |
| Lock washer for mounting bracket 5/16        | 43644       | 2        |
| Nut for mounting bracket 5/16-18 heavy       | 43911       | 2        |
| Top mounting screws top bracket #10-24 x 1/2 | 43847       | 2        |
| Nut for top mounting screws #10-24           | 43905       | 2        |
| Screws self-tapping                          | 43881       | 7        |
| Connector cord                               | 75151       | 2        |
| Locknut conduit 1/2"                         | 75257       | 2        |

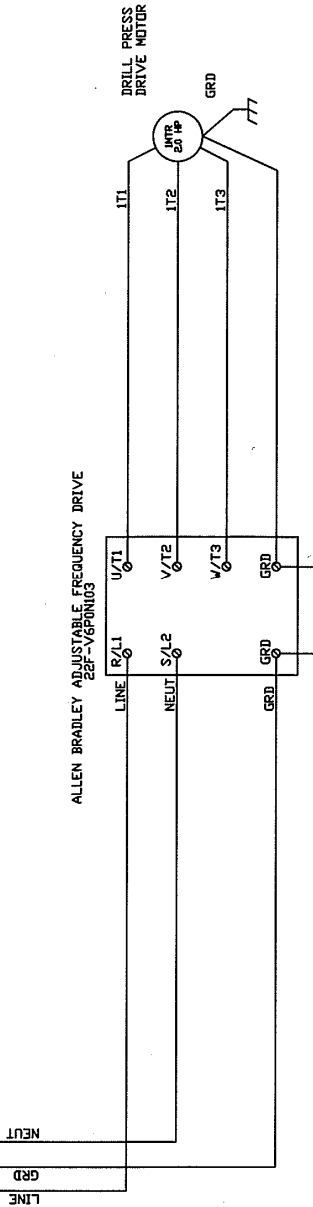
## TROUBLESHOOTING GUIDE

| Problem                          | Possible Cause   | Remedy  |
|----------------------------------|--|---|
| Machine does not turn on         | Not plugged in   | Plug into proper receptacle                                 |
|                                  | Frequency drive has error                                    | Clear error by turning off then back on                     |
|                                  | Too long or not correct extension cord                       | Remove extension cord and plug directly into receptacle     |
|                                  | Emergency stop button is activated                           | Deactivate emergency button                                 |
|                                  | Belt cover is operation                                      | Close belt cover  |
| Noisy Operation                  | Incorrect belt tension                                       | Adjust tension (page 8)                                     |
|                                  | Loose Spindle or motor pulley                                | Check for wear or if pulley can be tightened                |
|                                  | Spindle bearing worn   | Replace bearing   |
| Chuck or Quill falls out         | Rust inhibitor, dirt, debris in or on quill or spindle taper | Clean chuck and quill                                       |
| Spindle does not move up or down | Belt broken or slipping                                      | Check belt for damage, Check for proper belt tension page 8 |
|                                  | Debris in quill  | Clean quill and teeth                                       |
|                                  | Feed depth adjustment is set                                 | see page 7 for adjustment                                   |
| Spindle does not rotate          | Belt tension not tight enough                                | Tighten belt tension page 8                                 |
|                                  | Belt is broken or too worn                                   | Replace belt  |
|                                  | Motor is not rotating  | Troubleshoot motor  |
|                                  | Taper is slipping in spindle                                 | Clean chuck and quill                                       |

## **ELECTRICAL WARNING**

1. 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 machine is equipped with an electric cord having an equipment grounding conductor. The proper plug must be used that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment grounding can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with yellow stripes is 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.
4. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as whether the machine is properly grounded.
5. It is not recommended to use an extension cord on this machine. If one must be used, use only a grounded cord of proper size for machine and length of run needed.
6. Repair or replace damaged or worn cords immediately.

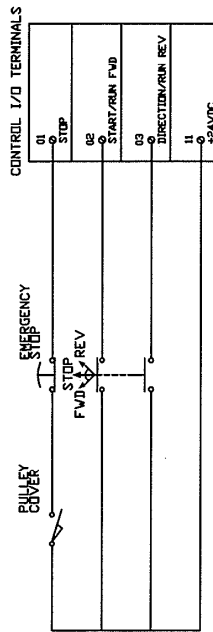
120 VAC 1-PHASE



REFER TO UNIT OPERATIONS MANUAL  
FOR FURTHER INSTALLATION AND PROGRAMMING DETAILS

■ SET THE FOLLOWING PARAMETERS TO SHOWN VALUE  
ALL OTHER PARAMETERS REMAIN AT FACTORY DEFAULT SETTING

| PARAMETER/NUMBER                | SETTING |
|---------------------------------|---------|
| P101---MOTOR NAMEPLATE VOLTAGE  | 230     |
| P102---MOTOR NAMEPLATE HERTZ    | 60      |
| P103---MOTOR OVERLOAD CURRENT   | 6.0     |
| P104---MINIMUM FREQUENCY        | 10.0    |
| P105---MAXIMUM FREQUENCY        | 90      |
| P106---START SOURCE             | 2       |
| P107---STOP MODE                | 0       |
| P108---SPEED REFERENCE          | 0       |
| P109---ACCELERATION TIME 1      | 1.0     |
| P110---DECELERATION TIME 1      | 1.0     |
| P111---MOTOR OVERLOAD RETENTION | 0       |
| P112---RESET TO DEFAULTS        | 0       |



## ELECTRICAL DIAGRAM

20 AMP 115 VOLT AC, DEDICATED CIRCUIT MUST BE USED

DAKE CORPORATION  
GRAND HAVEN, MICHIGAN 49417  
DAKE MODEL SB-25 DRILL PRESS 120 VOLT 1-PHASE  
DAKE DRAWING 87384 09/05/2013