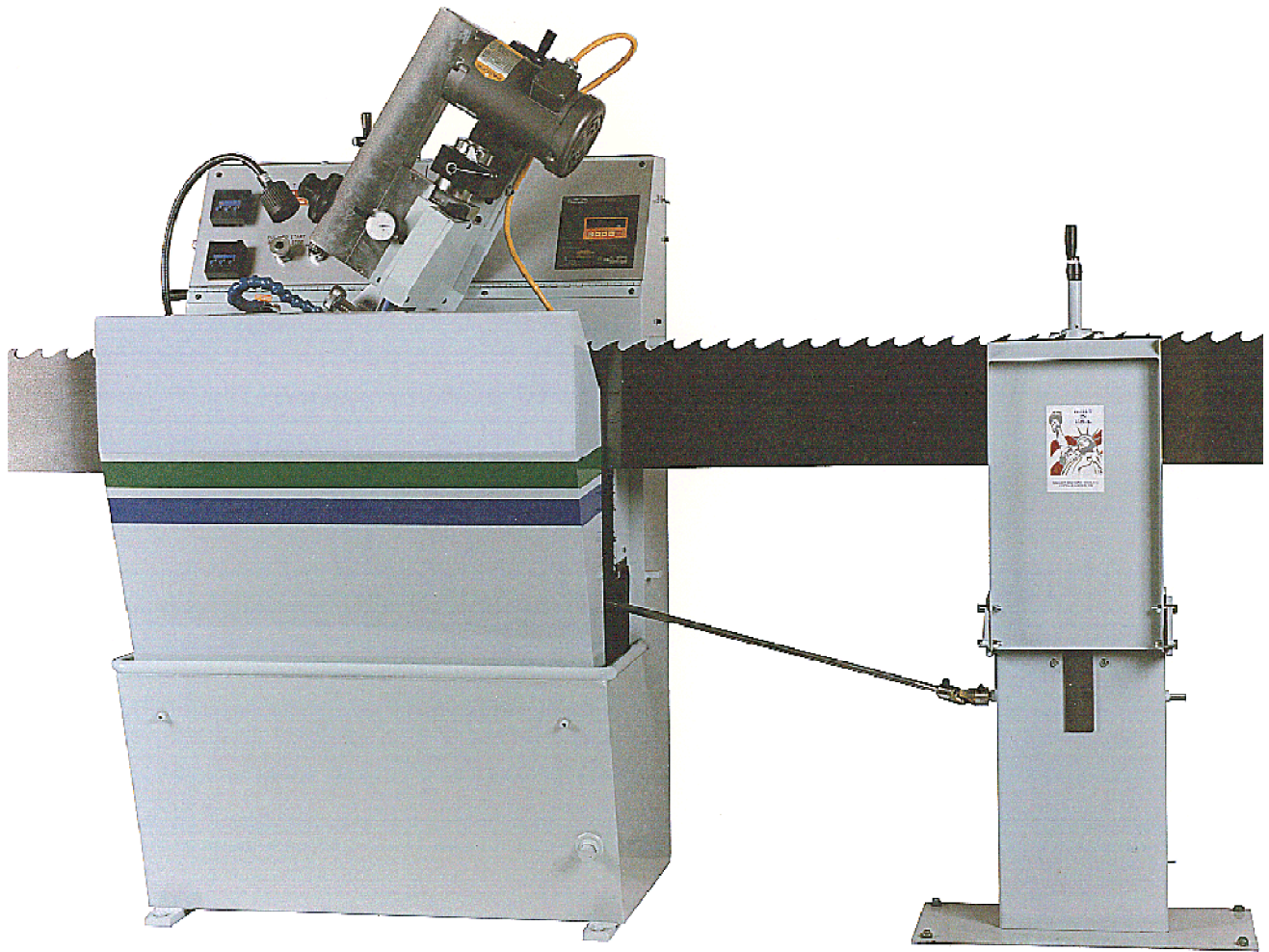


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**W-1701 FULL PROFILE SHARPENER**

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**W-1701**  
**AUTOMATIC PROFILE GRINDER**



**OPERATOR'S MANUAL**



REVISION 1  
SEPTEMBER, 1998

# W-1701 FULL PROFILE SHARPENER

## LIMITED WARRANTY

This machine is warranted against defects in workmanship and materials under normal use and proper maintenance, for one year after date of purchase from WRIGHT MACHINE TOOL CO. Any part which is determined to be defective in material or workmanship and returned to WRIGHT MACHINE TOOL CO., shipping costs prepaid will be repaired or replaced, at WRIGHT MACHINE TOOL CO. option.

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Phone (541) 942-3712  
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# W-1701 FULL PROFILE SHARPENER

## GENERAL SAFETY RULES

**Failure to follow the Safety Rules and other basic precautions, may result in serious injury.**

**Always use eye protection:** When operating this machine, eye protection should be worn. Grinding particles and the possibility of wheel breakage make eye protection necessary. Also face or dust mask if operation is dusty. Use adequate ventilation.

**Use ear protection:** If operation is creating excessive noise.

**Disconnect power:** To machine when NOT in use.

**Keep clear:** Of grinding wheels and pinch points when machine is running.

**Saws are sharp:** Wear appropriate personal protective equipment when handling saw blades.

**Mounting of wheels:** Should only be done by persons with mechanical aptitude and good knowledge of mounting, care, and inspection of grinding wheels. Wheels must be rated for the RPM of the machine.

**Dress properly:** Do not wear loose clothing or jewelry. Nonskid foot wear is recommended. Wear protective hair covering to contain long hair.

**Avoid dangerous environments:** Don't use in wet location. Keep work area well lit. Do not use this machine in the presence of flammable liquid or gasses.

**Keep children away:** Do not let VISITORS contact this machine.

**Keep work area clean:** Cluttered areas invite accidents.

**All electrical covers:** Must be in place before applying electrical power to this machine. Electrical service must be locked out prior to removing any electrical covers or machine guards. Access to electrical components must be restricted to trained personnel only to avoid possible electrical shock.



# W-1701 FULL PROFILE SHARPENER

## GENERAL SAFETY RULES (CONTINUED)

**Voltage greater:** Than specified on name plate can result in serious injury to user.

**Never stand on this machine:** Serious injury could occur if the machine is tipped or if the grinding wheel is accidentally contacted.

**Follow safety precautions:** For wheels, coolant and material being ground. These items must also be compatible. This information is available on the Safety Data sheet for each of these products.



# W-1701 FULL PROFILE SHARPENER

## Coolant Safety

Proper coolant maintenance will increase grinder life and grinding performance, and possibly reduce any risks associated with health concerns. Lack of proper coolant maintenance can result in increased exposure to grinding grit, bacteria, and other by products of grinding that may lead to increased skin sensitivity in some individuals. Water based coolants are designed to operate at precise mixture ratios. Check with the manufacturer of your coolant to determine the proper mix ratio.

### CAUTION

Residual cleaning solutions on the saw will easily be dissolved into the coolant tank and can dramatically affect the chemistry of coolant which can significantly reduce wheel life, coolant efficiency, and corrosion efficiency.

Maintain the coolant filters that were shipped with this machine. If you have any questions on how to maintain the filters, call Wright Machine Tool at 1-541-942-3712

Test your coolant at regular intervals. Contact the manufacturer of your coolant to determine when to test, and which tests to perform.

### Warning signs of improperly maintained coolant:

1. Strong (foul) odor coming from the coolant.
2. Color change in the coolant.
3. Noticeable stickiness on the saw.
4. Rust developing on the machine and/or saw steel.
5. Unexplained skin rash.
6. Deterioration of paint and/or plastic parts. If you detect any of these warning signs consult the coolant manufacturer at once. If you are having trouble contacting the coolant manufacturer, call Wright Machine Tool Co. Inc. at 1-541-942-3712

### WARNING!

Coolants used in this machine must be designed to be used in wet grinding operations. Do not use automotive coolant. Check with the manufacturer of the coolant to make sure it is designed for use in wet grinding of saws.



# W-1701 FULL PROFILE SHARPENER

## SPECIFICATIONS

**W-1701 Automatic Profile Grinder for Stellite® or Steel Circular saws or Band Saws.**

|                             |   |
|-----------------------------|---|
| STANDARD VOLTAGE:           | 230 Volt, 3 Phase, 50/60 HZ                 |
| OPTIONAL VOLTAGE:           | as requested                                |
| SHIPPING WEIGHT:            | 1,300 lbs                                   |
| CRATE SIZE:                 | L 48" X W 48" X H 63"                       |
| AIR REQUIREMENTS:           | 2 C.F.M at 100 psi to 120 psi               |
| CIRCULAR SAW SIZE:          | 4"-30" (Up to 34" with tank screen removed) |
| OPTIONAL CIRCULAR SAW SIZE: | Up to 54"                                   |
| BAND SAW SIZE:              | 4" - 6"                                     |
| OPTIONAL BAND SIZE:         | 3/4" - 3-1/2"                               |
| SPINDLE MOTOR:              | 2 H.P., 3 Phase, 3450 R.P.M. Motor          |



# W-1701 FULL PROFILE SHARPENER

## OPTIONS

|   |                    |
|---|--------------------|
| Large Bore Option                                     | W-50               |
| Totalizer Counter                                     | W-70               |
| 3 Pin Spline Saw Center                               | W-450              |
| Spline Bore Saw Center                                | W-460              |
| Expandable Saw Center with magnets                    | W-495              |
| Large Saw Option 34" to 36"                           | W-1701/36          |
| 36" to 54"  | W-1701/54          |
| Sash Gang Option                                      | W-2245             |
| Small Band Clamp Option from 3/4" to 1-3/8"           | W-2256             |
| Stands  | W-2259 Back Feed   |
|   | W-2260 Back Stand  |
|   | W-2261 Slave Stand |
|   | W-2262 Guide Stand |
| Double Cut Saw Carrier for Back Stands & Slave Stands | W-2265             |
| 5 Gal. Coolant Concentrate                            | Qualstar Cimcool   |
| Grinding Wheel  | P-10               |

## COMMON REPLACEMENT PARTS

|                      |         |
|----------------------|---------|
| Index Roller Bearing | W-188   |
| Index Feed Finger    | W-238-1 |
| Index Finger Spring  | W-239   |
| Index Pivot Bearing  | W-282   |
| Index Pivot Bearing  | W-283   |
| Filter Paper         | W-588   |
| Coolant Nozzle       | W-1295  |
| Fixed Clamp Jaw      | W-1788  |
| Moveable Clamp Jaw   | W-1787  |



# W-1701 FULL PROFILE SHARPENER

## PRE SET UP

Coolant capacity is 7 to 10 gallons. A rust inhibiting grinding coolant **MUST** be used or severe rust damage to machine can result. Mix coolant according to manufacturer's instructions.

COOLANT FILTERS: Clean coolant will increase grinding wheel life, improve grind finish and increase removal rates. Change coolant filter as necessary. Part # W-588.

### RUST DAMAGE IS NOT COVERED BY THE WARRANTY

## MOUNTING GRINDING WHEELS

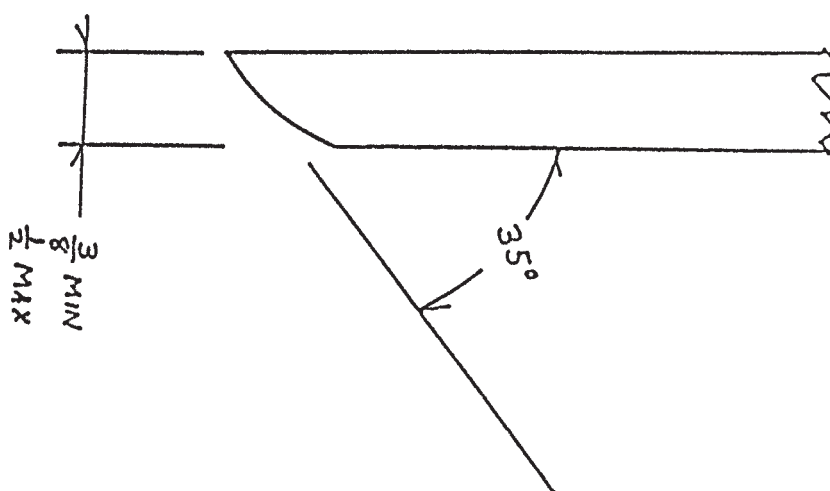
**All grinding wheels must be rated for the RPM of this machine. Wheels exposed to higher than rated RPM are dangerous.**

Mounting of the grinding wheel should only be done by persons with mechanical aptitude and good knowledge of mounting, care, and inspection of grinding wheels. The W-1701 uses up to a 10" diameter 1-1/4" bore grinding wheel. All grinding wheels must be rated for machine RPM.

## MACHINE INSTALLATION

Lifting this machine should only be done with a fork lift under the Coolant Tank. Machine weight is approximately 1,300 pounds.

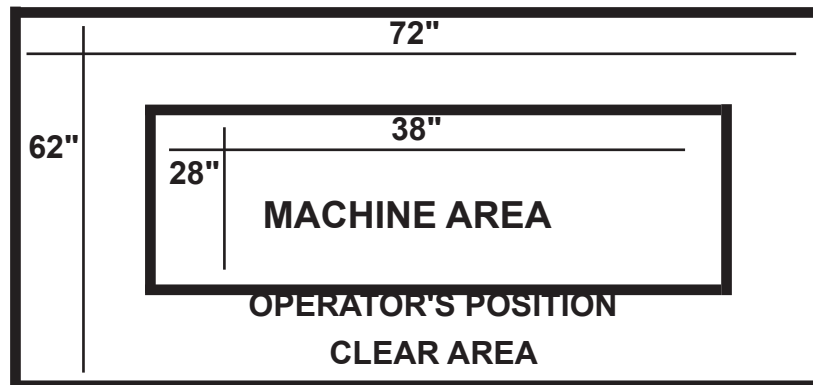
### Required Wheel Shape for W-1730 Cam Set.





# W-1701 FULL PROFILE SHARPENER

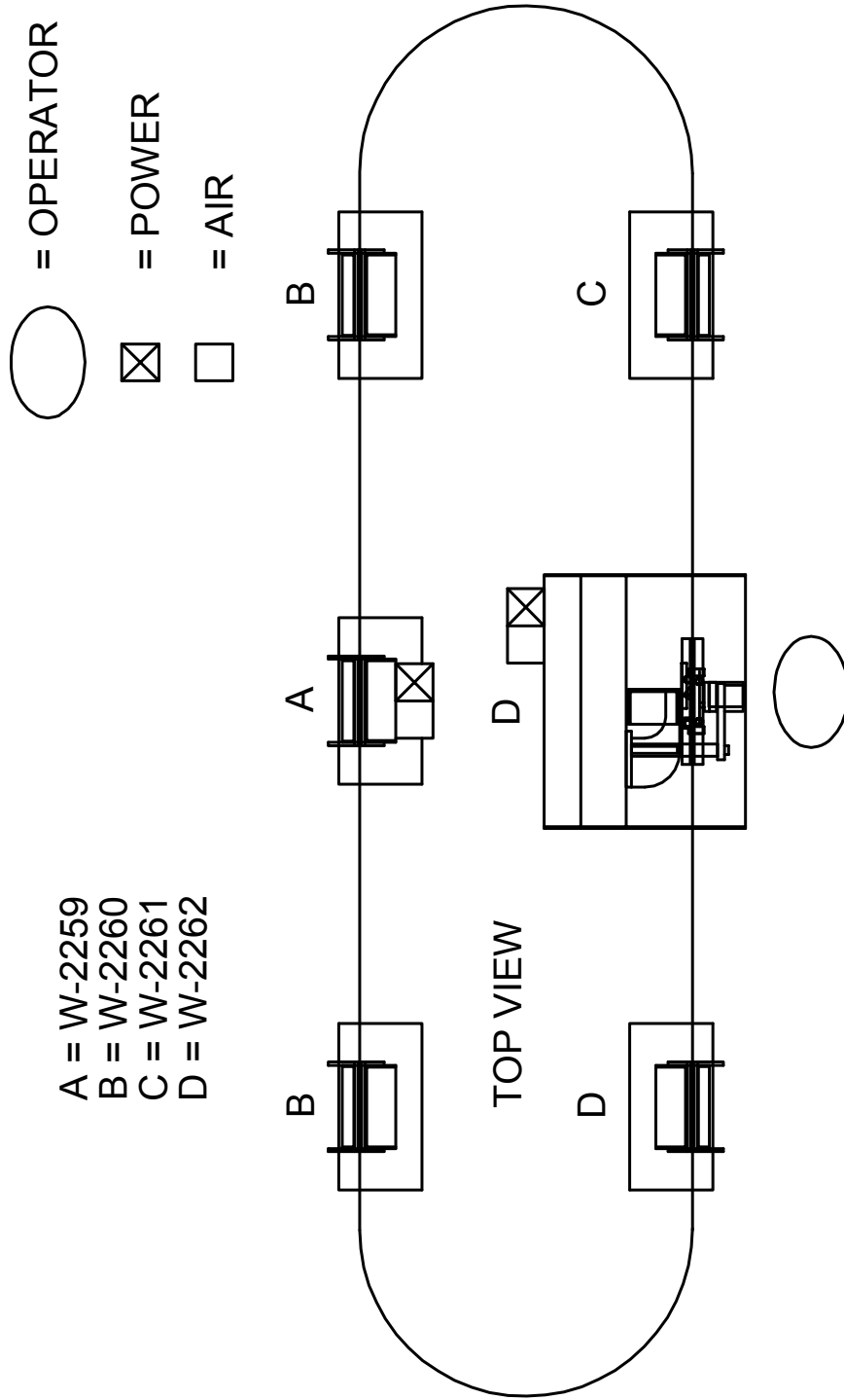
## RECOMMENDED FLOOR SPACE FOR MACHINE AND OPERATOR



**WM** **W** RIGHT **M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## FLOOR SPACE EXAMPLE (BAND SAWS) FOR MACHINE AND OPERATOR



- A = W-2259
- B = W-2260
- C = W-2261
- D = W-2262



**W** RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## Band Gauge Adjustments

To adjust for different gauge thicknesses remove fixed clamp jaw, install correct shim, and replace the fixed clamp jaw.

| Saw Gauge | Thickness<br>(in thousandths) | Shim # | Shim Thickness |
|-----------|-------------------------------|--------|----------------|
| 12        | .109                          | E      | .143           |
| 13        | .095                          | G      | .150           |
| 14        | .083                          | I      | .156           |
| 15        | .072                          | K      | .161           |
| 16        | .065                          | M      | .165           |
| 17        | .058                          | O      | .169           |
| 18        | .049                          | Q      | .173           |
| 19        | .042                          | S      | .176           |
| 20        | .035                          | U      | .180           |
| 22        | .028                          | Y      | .183           |

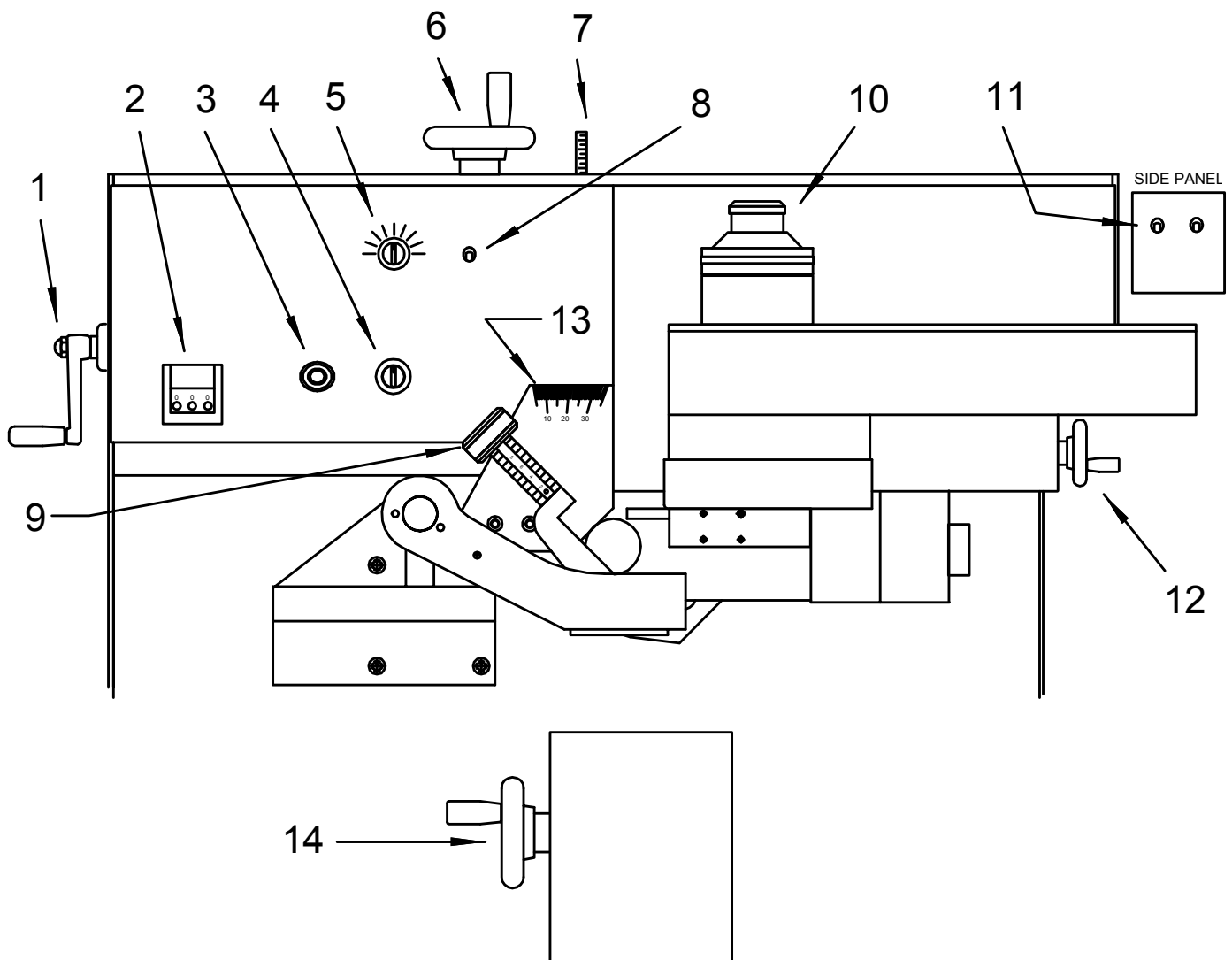
Standard shims are 13, 15, 17, 19 ga.. To order additional or replacement shims use part number C-6981 plus letter suffix. Example: 15 gauge would equal C-6981-K.

Note, on split gauges use nearest full gauge size.



# W-1701 FULL PROFILE SHARPENER

## CONTROL PANEL



- |    |                       |     |                                |
|----|-----------------------|-----|--------------------------------|
| 1. | Hook/Back Angle Crank | 8.  | Cycle Switch                   |
| 2. | Counter               | 9.  | Depth of Tooth Adjustment      |
| 3. | Start/Stop Switch     | 10. | Infeed Adjustment              |
| 4. | Saw Clamp Control     | 11. | Coolant Pump/Lift Off Switches |
| 5. | Speed Control         | 12. | Head Lift-Off Handle           |
| 6. | Index Pitch Control   | 13. | Hook Angle Scale               |
| 7. | Index Pitch Indicator | 14. | Saw Lift Adjustment            |

**WM** **RIGHT** **M** **ACHINE**

# W-1701 FULL PROFILE SHARPENER

## Operation

NOTE: When dressing or shaping grinding wheels, eye protection should be worn and adequate ventilation is necessary. Flood coolant should be used while dressing the wheel to reduce air-born dust which can shorten the life of the machine.

**WARNING. Do not set wheel RPM higher then the rating for the grinding wheel being used.**

## Profile Grinding

1. Adjust hook angle as necessary by turning hand crank on left end of the machine.
2. Set speed control #1 to the number of teeth per minute of grinding speed.
3. Set the tooth counter #3 to the number of teeth in the saw + 1. Example, a 30 tooth saw would be set at 31.
4. Set the Saw Clamp Control #5 (Run / Off) switch to Off. This will open the clamp jaw.
5. Mount the band saw and turn the sawlift hand crank until the saw tip is 1/8" above the index finger.
6. Move Saw Clamp Control #5 (Run / Off) switch to Run. This will close the clamp jaw.
7. Pull the Start button and the machine will start. Move the Cycle Switch #2 (For. / Stop toggle switch) to For. the index will place the tip in position and the grinding head will start moving down. Adjust the spindle infeed until the desired amount of material is being removed from the face of the saw gullet.
8. Adjust the depth of grind by turning the sawlift hand crank. This will determine the amount being removed from the back and bottom of the saw.
9. To adjust for wheel wear turn the black knob next to the spindle motor.



# W-1701 FULL PROFILE SHARPENER

## ADJUSTING THE TOOTH SHAPE

1. The W-1701 can be adjusted to alter the tooth shape. Tooth shape (depth) is adjustable by turning the Tooth Shaper (Depth) #9 knob next to the hook angle scale. Turning this clockwise will give a deeper gullet and a more steep back angle, counterclockwise for a more shallow gullet and a flatter back angle.
2. Wheel shape and width can change the gullet shape. The wheel shape and thickness must be matched to the cam to deliver the designed tooth shape.



Tooth Shape (Depth)

# W-1701 FULL PROFILE SHARPENER

## Wheel R.P.M. A.C. Inverter Operation

Warning: Do Not set wheel R.P.M. higher than the rating for the grinding wheel being used.

### Setting Spindle R.P.M.

| Hz | R.P.M. |
|----|--------|
| 90 | 4400   |
| 80 | 3900   |
| 70 | 3400   |
| 60 | 2900   |
| 50 | 2430   |
| 40 | 1950   |

Assuming .85 to 1 ratio. 1.800 drive, 2.125 driven.

When electrical power is reconnected to the machine the display will flash. To reset, start machine and then press run button on inverter. To change the R.P.M. start machine and press (Λ) to increase or (V) to decrease R.P.M..



# W-1701 FULL PROFILE SHARPENER

## Inverter Operation

### Models 3HX70 thru 3HX79 3KV62 thru 3KV67

#### Basic Operation

##### INSPECTION PRIOR TO OPERATION

**IMPORTANT:** When the installation and wiring have been completed, carry out an inspection regarding the following items before applying power supply.

1. Double check for proper wiring.
2. Remove all wire strands and drilling chips.
3. Make sure all screws are tight.
4. Make sure that wire strands on crimp terminals are not in contact with other terminal.

**CAUTION** Do not perform dielectric megger test on control terminals or between power circuit terminals.

**CAUTION** Replace all covers and key pad before applying power to drive. Failure to do so could result in death or serious injury.

##### START-UP (TEST)

1. Turn on power supply. Digital display will flash 60.00.
2. Push  $\nabla$  decrease speed to 0.000  
**NOTE:** (Test operation should not be done at a frequency greater than 5 Hz).
3. Push RUN key. Digital display will stop blinking and indicate 0.00.
4. Push and hold UP key until motor shaft is rotating. Verify direction of rotation is correct.

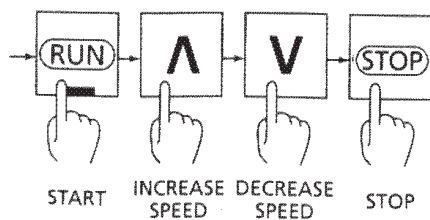


Figure 7-Operation/Run Diagram

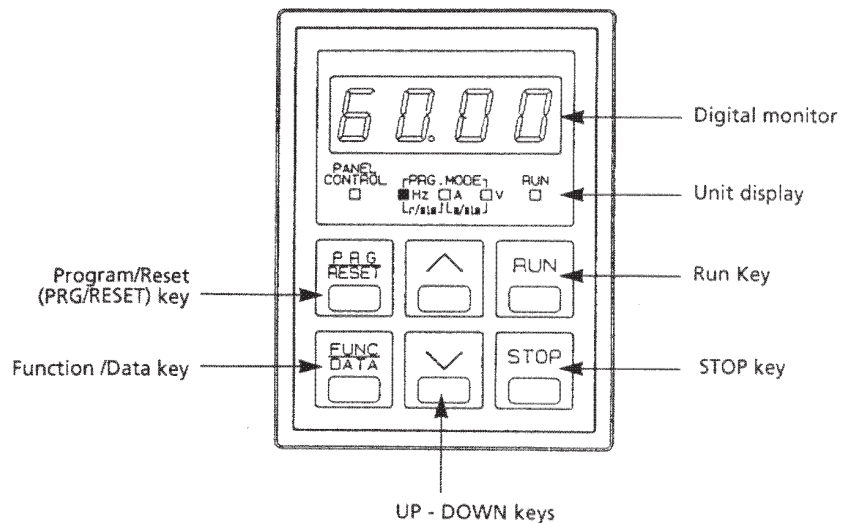


Figure 8-Digital Display and Keypad Description

- a. If rotation is incorrect, push STOP key. Turn off power to the inverter, and interchange wires connected to power terminals V and W.

**CAUTION** Maintenance and inspection should be performed only after "CRG" Lamp turns off.

- b. Turn power back on. Digital display will flash the last frequency setting prior to shutdown.
  - c. Push RUN key. Inverter will automatically accelerate to this last frequency setting.
5. Push and hold UP key until motor is running at desired speed. (See Figure 7.)
  6. To change speed, use UP/DOWN keys.
  7. To stop, push STOP key. Digital display will flash last frequency setting.

**NOTE:** Next time RUN key is pushed, inverter will automatically accelerate to this last frequency setting.

##### RELATIONSHIP OF MOTOR SPEED TO DIGITAL DISPLAY FREQUENCY SETTING:

Basic formula:

$$\% \text{ of Speed} = \frac{\text{Frequency Setting}}{60 \text{ Hz}} \times 100$$

Example: Digital display indicates 45.0.

$$\% \text{ of Speed} = \frac{45.0}{60 \text{ Hz}} \times 100 = 75\%$$

**NOTE:** 60.00 Hz equals 100% motor speed.

8. If at any point during operation one of the alarm indications is displayed (Figure 9), the inverter will shut down. See Troubleshooting Chart, page 13.
9. After fault is corrected, push - PRG/RESET key to clear alarm indication. Display will flash the last frequency setting prior to shut down.





# W-1701 FULL PROFILE SHARPENER

## Inverter Operation

### Basic Operation (Continued)

| Alarm Message                                 | Display    | Description   |
|---|------------|---|
| Overcurrent                                   | <i>OC1</i> | Overcurrent or output short line to line during acceleration.   |
|   | <i>OC2</i> | Overcurrent or output short line to line during deceleration.   |
| Output short line to line                     | <i>OC3</i> | Overcurrent or output short line to line during steady state running.   |
| Overvoltage                                   | <i>OU</i>  | DC bus voltage reaches the overvoltage protection level.  |
|   | <i>OU1</i> | DC bus voltage reaches the overvoltage protection level during acceleration.                                    |
|   | <i>OU2</i> | DC bus voltage reaches the overvoltage protection level during deceleration.                                    |
|   | <i>OU3</i> | DC bus voltage reaches the overvoltage protection level during steady state running.                            |
| Inverter heat sink overheating                | <i>OH1</i> | Overheating of the inverter heat sink due to overload, cooling fan malfunction or abnormal ambient temperature. |
| External alarm function                       | <i>OH2</i> | THR-CM terminal open due to external fault and/or the electronic overload switches.                             |
| CPU error                                     | <i>ERR</i> | CPU malfunction due to noise.   |
| Low voltage                                   | <i>LU</i>  | Under voltage of power supply   |
| Instantaneous power failure<br>(15 msec max.) |            |   |

**Figure 9 - Alarm Messages**

**NOTE:** See Technical Manual for complete list of fault displays.



# W-1701 FULL PROFILE SHARPENER

## Inverter Operation

### Models 3HX70 thru 3HX79 3KV62 thru 3KV67

#### Troubleshooting Chart

| Display | Check Point   | Corrective Action   |
|---------|---|---|
| OC1     | <ol style="list-style-type: none"> <li>1. Power supply within allowable variation</li> <li>2. Output circuit short line to line</li> <li>3. Torque boost value too high</li> <li>4. Acceleration time setting too short</li> <li>5. Other than 1-4</li> </ol> | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Check the wiring and motor winding</li> <li>3. Adjust to suitable value</li> <li>4. Adjust to suitable value</li> <li>5. Use larger size inverter</li> </ol>                                      |
| OC2     | <ol style="list-style-type: none"> <li>1. Power supply within allowable variation</li> <li>2. Output circuit short line to line</li> <li>3. Deceleration time setting too short</li> <li>4. Other than 1-3</li> </ol>   | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Check wire and motor winding insulation</li> <li>3. Adjust to suitable value</li> <li>4. Use larger size inverter<br/>Connect external DB resistor (optional)</li> </ol>                          |
| OC3     | <ol style="list-style-type: none"> <li>1. Power supply within allowable variation</li> <li>2. Output circuit short line too line</li> <li>3. Abrupt change of the load</li> <li>4. Torque boost too high</li> <li>5. Other than 1-4</li> </ol>                | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Check wire and motor winding insulation</li> <li>3. Eliminate load fluctuation</li> <li>4. Decrease torque setting<br/>Use larger size inverter</li> <li>5. Check for electronic noise</li> </ol> |
| OU1     | <ol style="list-style-type: none"> <li>1. Power supply within limits</li> <li>2. Acceleration setting too short</li> </ol>  | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Increase time<br/>Use larger size inverter</li> </ol>   |
| OU2     | <ol style="list-style-type: none"> <li>1. Power supply within allowable variation</li> <li>2. Deceleration time setting too short</li> <li>3. Other than 1-2</li> </ol>   | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Adjust to suitable value</li> <li>3. Connect external DB resistor (optional)</li> </ol>   |
| OU3     | <ol style="list-style-type: none"> <li>1. Power supply within limits</li> <li>2. Steady state running</li> </ol>  | <ol style="list-style-type: none"> <li>1. See Technical Manual for further help</li> </ol>  |
| OH1     | <ol style="list-style-type: none"> <li>1. Ambient temperature within allowable variation</li> <li>2. Cooling fan malfunction</li> <li>3. Load condition too heavy</li> </ol>  | <ol style="list-style-type: none"> <li>1. Put the inverter in appropriate environment</li> <li>2. Replace</li> <li>3. Reduce the load or use larger size inverter</li> </ol>  |
| OH2     | <ol style="list-style-type: none"> <li>1. Motor protection circuit thermal overload relay</li> <li>2. Brake resistor protection thermal switch</li> <li>3. Wiring THR-CM</li> </ol>   | <ol style="list-style-type: none"> <li>1. Determine fault and correct</li> <li>2. Extend cycle time</li> <li>3. Check the wiring and correct</li> </ol>   |
| LU      | <ol style="list-style-type: none"> <li>1. Power supply within allowable variation</li> <li>2. Lack of phase</li> <li>3. Magnetic contactor or MCCB</li> <li>4. Other than 1-3</li> </ol>  | <ol style="list-style-type: none"> <li>1. Adjust the supply voltage to suitable value</li> <li>2. Check the wiring and correct it</li> <li>3. Make sure to turn on this equipment</li> <li>4. Check power supply capacity</li> </ol>  |
| ERR     | <ol style="list-style-type: none"> <li>1. See Technical Manual for further help</li> </ol>  |   |



# W-1701 FULL PROFILE SHARPENER

## Inverter Operation

TABLE 6: Function Codes

Function Code Numbers Followed by Function Descriptions

\* Function can be changed while the Drive is operating.

| Basic Functions |                                       | Page 6 - | Basic Functions (cont'd) |   | Page 6 - | Basic Functions (cont'd) |  | Page 6 - |
|-----------------|---------------------------------------|----------|--------------------------|---|----------|--------------------------|--|----------|
| 00              | Data Protection                       | 1        | 22                       | *Multistep Frequency Setting 2                          | 9        | 43                       | X4 Terminal Function                             | 16       |
| 01              | Frequency Command                     | 1        | 23                       | *Multistep Frequency Setting 3                          | 9        | 44                       | *Multistep Frequency Setting 8                   | 16       |
| 02              | Operation Command                     | 2        | 24                       | *Multistep Frequency Setting 4                          | 9        | 45                       | *Multistep Frequency Setting 9                   | 16       |
| 03              | Maximum Frequency                     | 2        | 25                       | *Multistep Frequency Setting 5                          | 9        | 46                       | *Multistep Frequency Setting 10                  | 16       |
| 04              | Base Frequency 1                      | 2        | 26                       | *Multistep Frequency Setting 6                          | 9        | 47                       | *Multistep Frequency Setting 11                  | 16       |
| 05              | Maximum Output Voltage                | 3        | 27                       | *Multistep Frequency Setting 7                          | 9        | 48                       | *Multistep Frequency Setting 12                  | 16       |
| 06              | *Acceleration Time 1                  | 3        | 28                       | S-curve Acceleration/Deceleration (Operation Selection) | 10       | 49                       | *Multistep Frequency Setting 13                  | 16       |
| 07              | *Deceleration Time 1                  | 3        | 29                       | * Fault Memory/History                                  | 11       | 50                       | *Multistep Frequency Setting 14                  | 16       |
| 08              | *Torque Boost 1                       | 3        | 30                       | Starting Frequency                                      | 11       | 51                       | *Multistep Frequency Setting 15                  | 16       |
| 09              | *FMA Terminal Voltage Adjustment      | 4        | 31                       | * (During Accel/Decel) Torque Limit                     | 11       | 52                       | *Signal Filter Frequency Setting                 | 17       |
| 10              | *Number of Motor Poles                | 4        | 32                       | * (At Constant Speed)                                   | 11       | 53                       | Timer  | 17       |
| 11              | *Line Speed Display Coefficient       | 4        | 33                       | Braking Torque Selection                                | 12       | 54                       | Y1 Terminal (Function)                           | 18       |
| 12              | *Motor Sound (Carrier Freq.)          | 4        | 34                       | * Bias Frequency  | 12       | 55                       | *Frequency Level Detection (FDT Operation Level) | 18       |
| 13              | Number of Restart Attempts            | 5        | 35                       | * Gain for Frequency Setting Signal                     | 13       | 56                       | *Hysteresis Width                                | 19       |
| 14              | Restart After Momentary Power Failure | 5        | 36                       | * High Frequency Limiter                                | 14       | 57                       | THR Terminal (Function)                          | 19       |
| 15              | Electronic Overload 1 Selection       | 6        | 37                       | * Low Frequency Limiter                                 | 14       | 58                       | *Jump Frequency Hysteresis                       | 20       |
| 16              | Electronic Overload Setting 1         | 7        | 38                       | * Motor Characteristics                                 | 14       | 59                       | *Jump Frequency 1                                | 20       |
| 17              | DC Brake Operation                    | 8        | 39                       | Data Initialization (Default Settings)                  | 14       | 60                       | *Jump Frequency 2                                | 20       |
| 18              | *DC Brake Starting Frequency          | 8        | 40                       | FMA, FMP terminals (Operation Selection)                | 15       | 61                       | *Jump Frequency 3                                | 20       |
| 19              | *DC Braking Level                     | 8        | 41                       | FMA Terminal (Function)                                 | 15       | 62                       | Base Frequency 2                                 | 20       |
| 20              | *DC Braking Time                      | 8        | 42                       | * FMP Pulse Rate Multiplier                             | 15       | 63                       | *Acceleration Time 2                             | 20       |
| 21              | *Multistep Frequency Setting 1        | 9        |                          |   |          | 64                       | *Deceleration Time 2                             | 20       |
|                 |                                       |          |                          |   |          | 65                       | *Torque Boost 2                                  | 21       |
|                 |                                       |          |                          |   |          |                          | cont'd on next page                              |          |





# W-1701 FULL PROFILE SHARPENER

## PERFORMANCE

### 1. SAW BLADE DIMENSIONS:

- \* Minimum saw diameter 4 inches.
- \* Maximum saw diameter 34 inches (with coolant screen removed).
- \* Maximum saw thickness to 3/8 inches.
- \* Maximum tooth pitch straight 4-1/2 inches.
- \* Hook angle 0 to 40 degrees.
- \* Bore 5/8" to 2.5" standard, 5/8" to 10" optional.
- \* Teeth per minute 0 to 29.

### 2. SPEEDS:

- \* Average set up time approximately 2 minutes.
- \* Reload time less than 1 minute.
- \* Grinding speed (average resharpener) 11 teeth per minute.

The above speeds were accomplished by an experienced operator. The saw used for these average speeds was 24 inches in diameter with 40 teeth, .087 plate thickness, .125 kerf. Larger saws, thicker plate or kerf will require somewhat slower speeds.



# W-1701 FULL PROFILE SHARPENER

## MAINTENANCE

Care should be taken when control console or rear cover is removed. Do not allow any grinding grit to enter.

Drain water from air filter every day. More often may be required if air is wet or dirty.

Do not use oilers. Do not use synthetic compressor oil or severe valve damage will occur. Use only water based grinding coolant.

## TROUBLE SHOOTING

**CAUTION: DISCONNECT FROM POWER BEFORE OPENING ANY COVER.**

**Machine will not start when start button is pulled.**

1. No power to machine.
2. Transformer fuse blown, under rear cover next to transformer.
3. Item #5 not in Run Position.

**Machine stops as soon as start button is released.**

1. Counter is set to zero.
2. Overload tripped on motor starter (inside control console right side bottom).

**Machine starts but does not cycle, feed, or index.**

1. Check the fuse behind control console.
2. Index is bound.
3. Cam drive motor is defective.
4. Circuit board is defective.

**Coolant does not flow when switch is on.**

1. Check to be certain coolant is in the tank.
2. Valve is closed.
3. Blow air through nozzle to clean obstruction.
4. Coolant pump may be clogged.
5. Coolant pump may be defective.



# W-1701 FULL PROFILE SHARPENER

## TROUBLE SHOOTING (Continued)

**Machine will not function, nothing works.**

1. Open rear cam cover. On door next to large transformer is an in line fuse holder, twist to open, replace with 6 to 6-1/4 amp slow blow fuse.

**Machine will run only when start button is held out.**

1. Motor overload is tripped or the counter is set on zero. Reset overload inside control console right side bottom.

**Machine runs but will not go through it's cycle.**

1. Fuse to cam motor is blown. Open the control panel on the front of the machine. Fuse holder is located left of center below wire bundle. Replace as necessary with five amp fast-blow fuses. If this fuse blows more than twice in six months **CALL US** for adjustment recommendations.

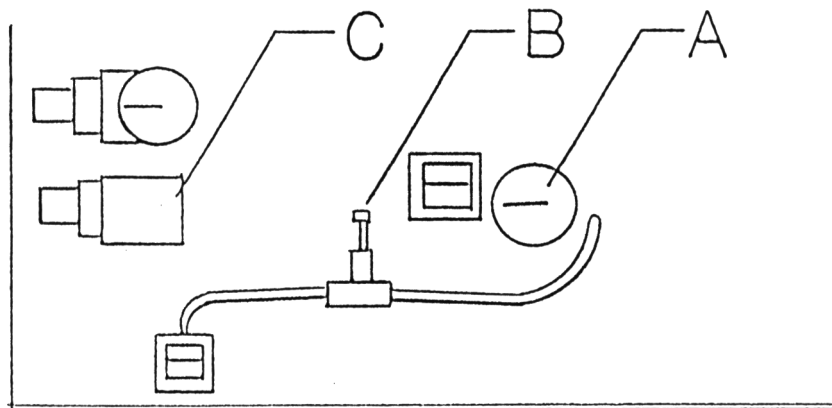
**If other problems arise please call us for technical advice. (541) 942-3712.**



# W-1701 FULL PROFILE SHARPENER

## UNEVEN GRINDING

1. Is the saw free of rust and pitch.
2. Set tooth counter on 1. Start Machine and let it stop by itself. Mount saw, turn selector to run. Pull the saw by hand and see if it moves smoothly with about 10 pounds drag. If it does not, check the saw for plate damage, or for saw carrier binding. If these appear normal open rear cam cover and check pressure settings on gauge "A". If pressure is below 40 lbs. check bleeder "B". It must be exhausting some air. It cannot be fully closed. Regulator "C" controls drag pressure and it is set for 10 lbs. A lower setting at some times is necessary to get the saw to move smoothly.

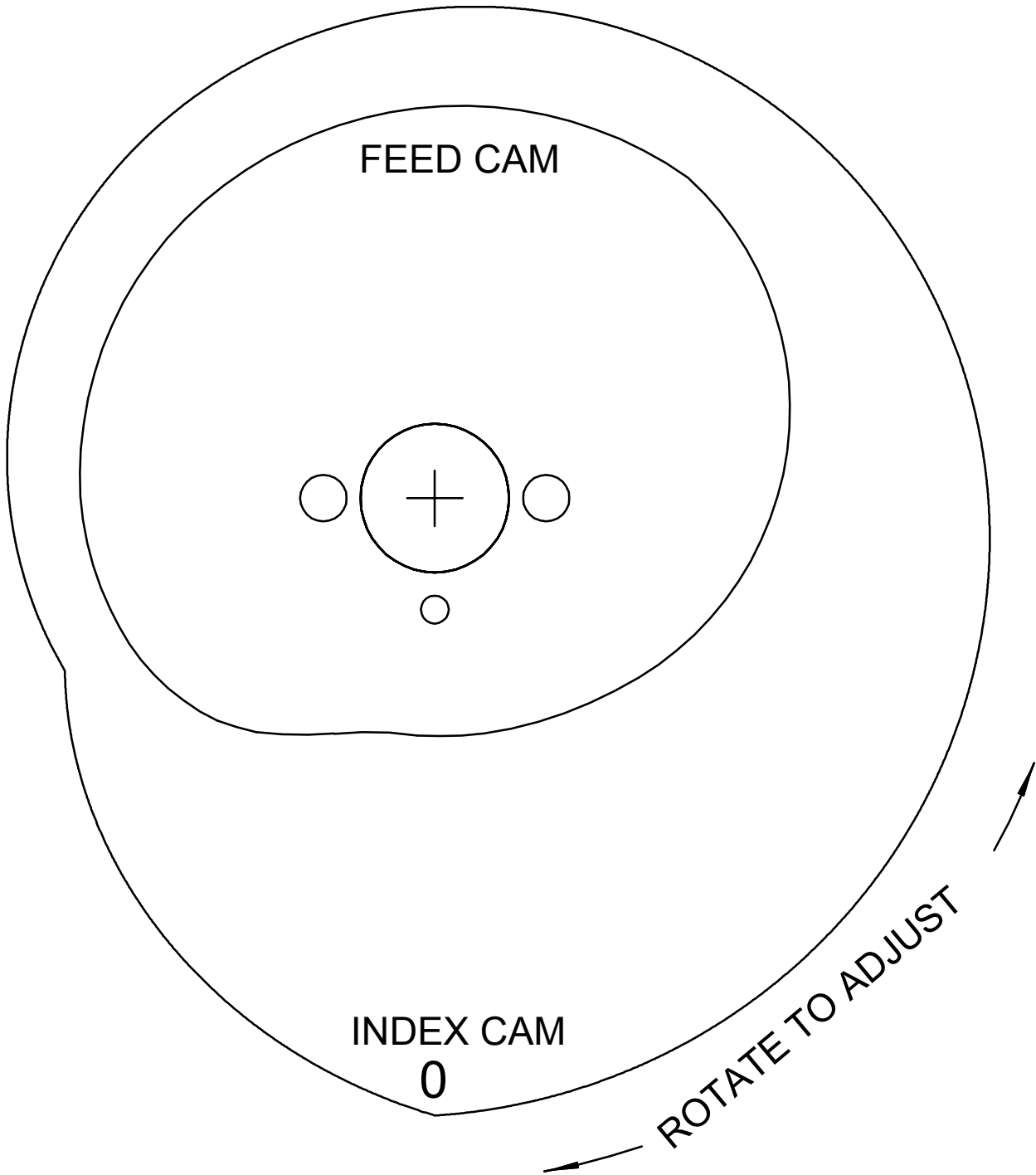


Inside Rear Door





# W-1701 FULL PROFILE SHARPENER



# W-1701 FULL PROFILE SHARPENER

## TIMING THE TRIP CAM

Once the correct cam relationship has been established then you must set the time duration on the trip cam to achieve "full" clamp pressure.

Cycle the grinder at slow speed to full forward index position. See index cam follower on fig. 1, next page.

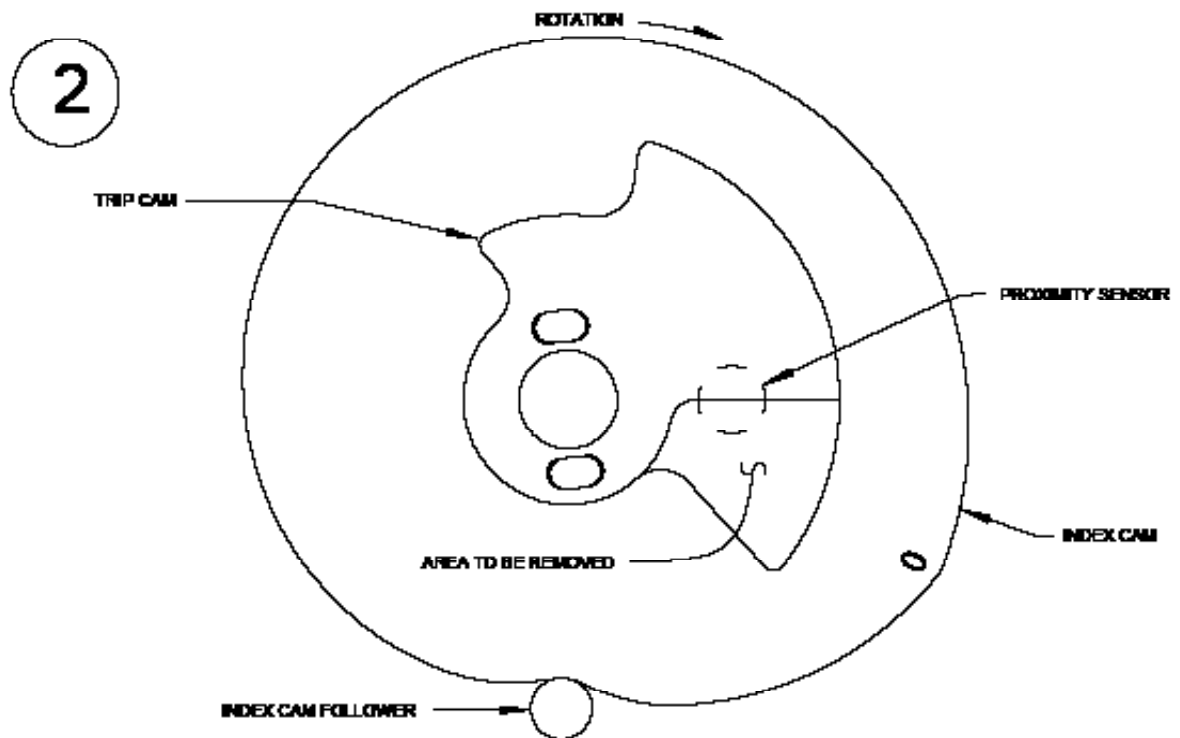
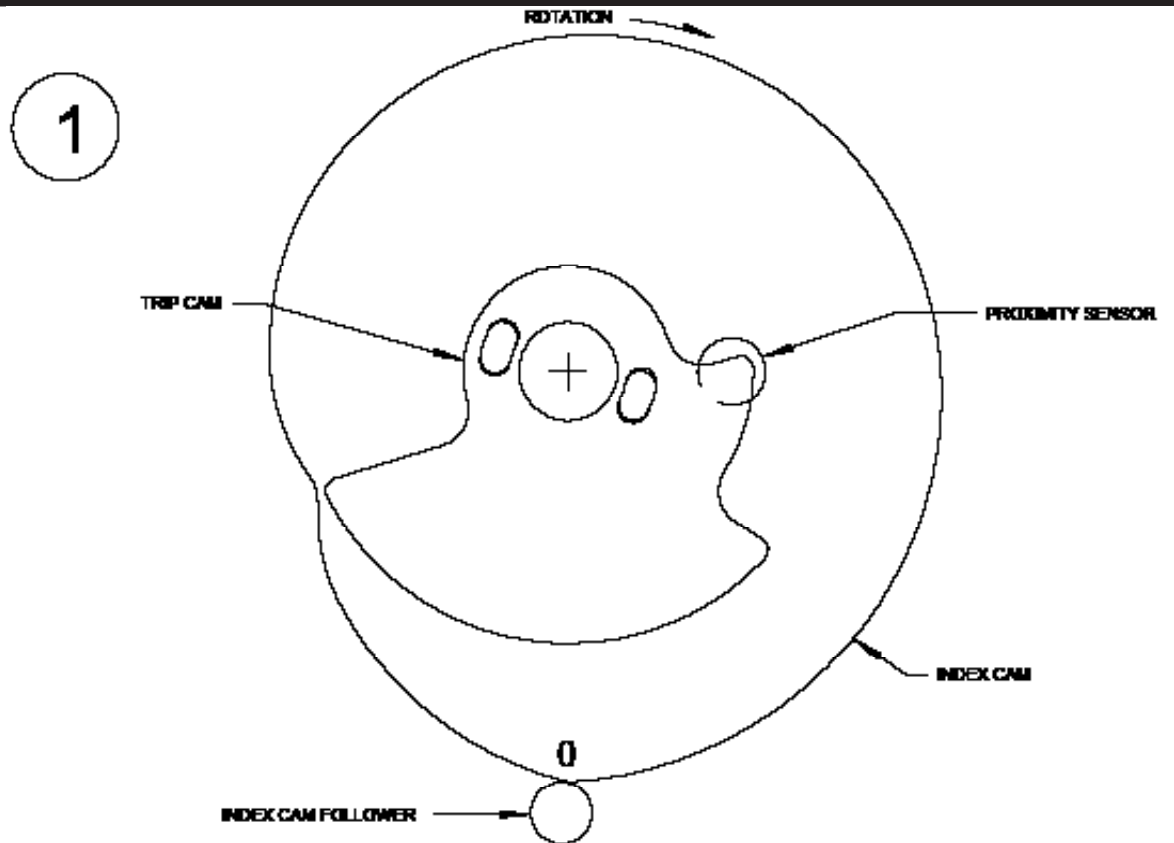
While cycling the cam forward, mark the spot on the cam to determine the "deactivation point" which will either match the cam follower low contact point( See fig. 2.) or at the point which the feed finger is about to contact the next tip. This is important so as to properly sequence the low pressure setting during the indexing of the saw at the same time when the grinding wheel sweeps down through the gullet.

By removing the trip cam material, the duration of clamp cycle is set and no further adjustment will be required if cam set are subsequently changed.

We suggest using a permanent marker to indicate these points and position of trip cam to index cam. This will minimize guess work after removing the trip cam to trim with a metal cutting tool, ie. band saw, jig saw, etc..



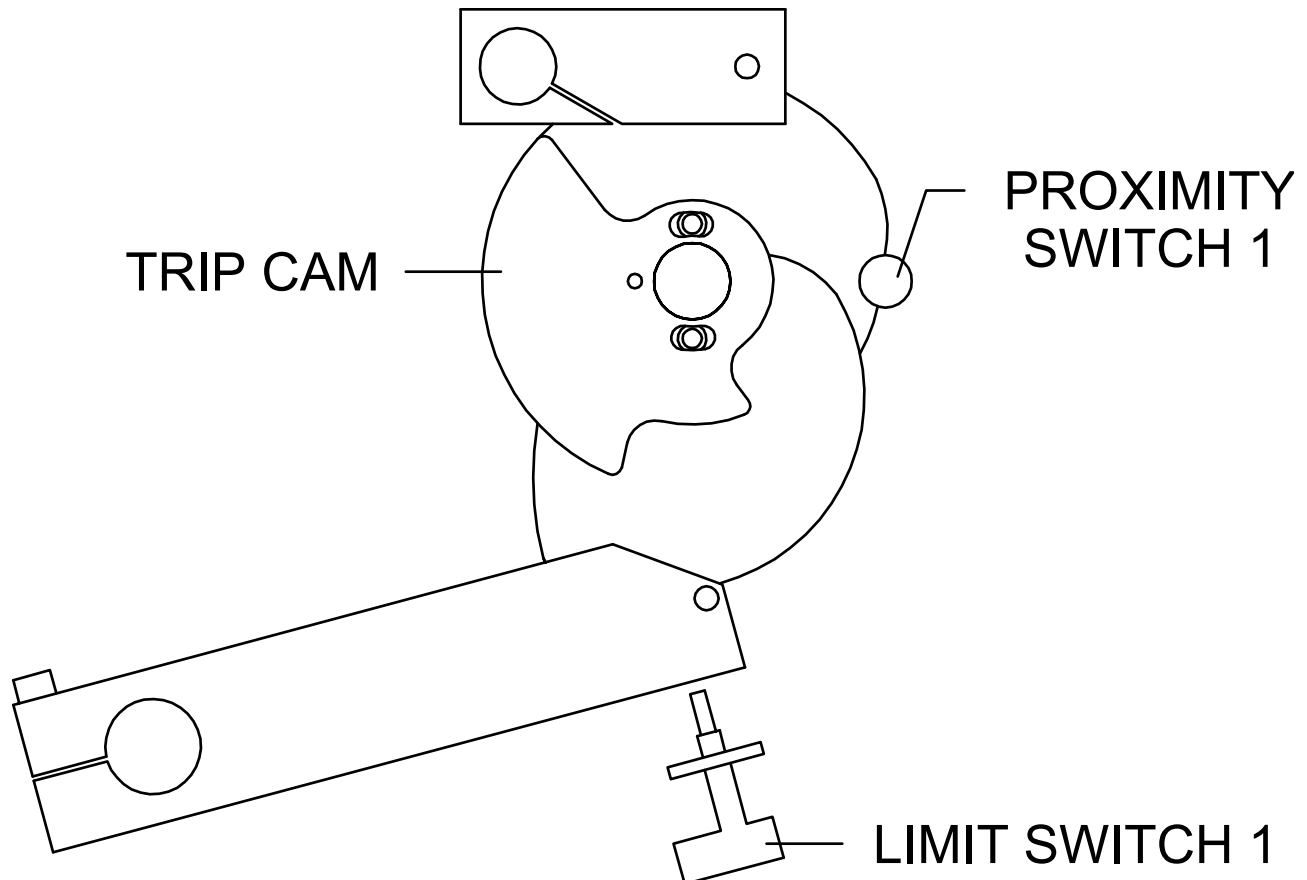
# W-1701 FULL PROFILE SHARPENER

**WM****W** RIGHT**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## PROXIMITY SWITCH ADJUSTMENT

The proximity switches tripped by the trip cam, control the function of the machine. If the machine does not function correctly check the proximity switch for proper adjustment.

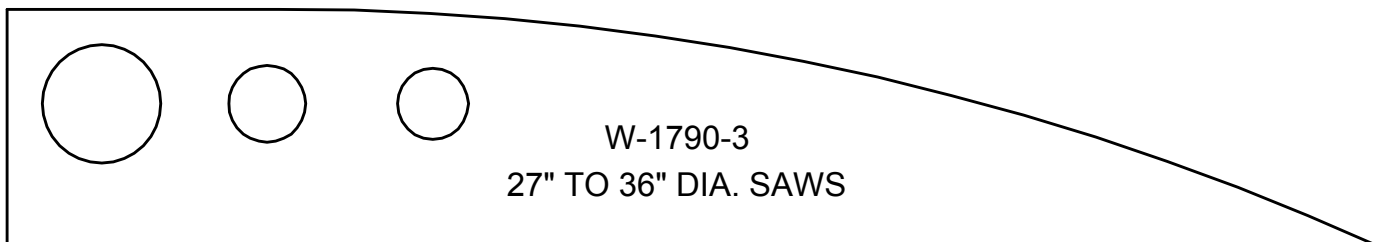
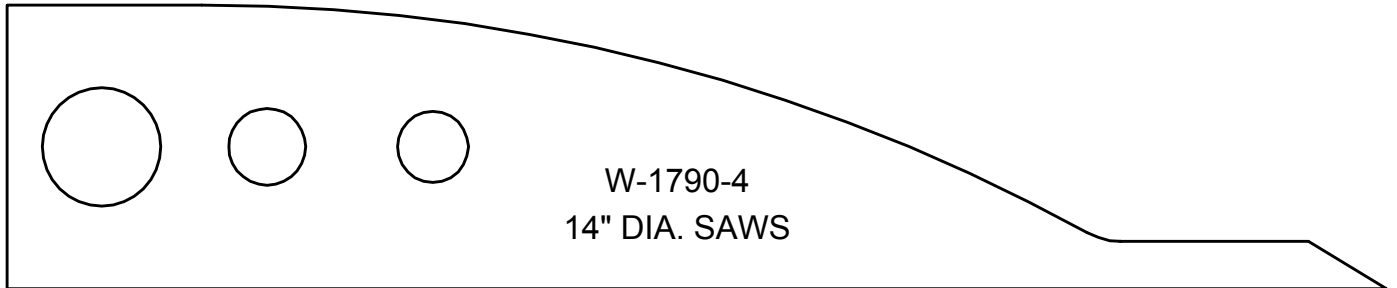


Note: Proximity switches are set .050 before being tripped by the trip cam. Proximity switch 1 sends a signal to CR-3 for head movement to full forward. Limit switch 1 provides counter counting signal.



# W-1701 FULL PROFILE SHARPENER

## Optional Saw Ramps (not to scale)



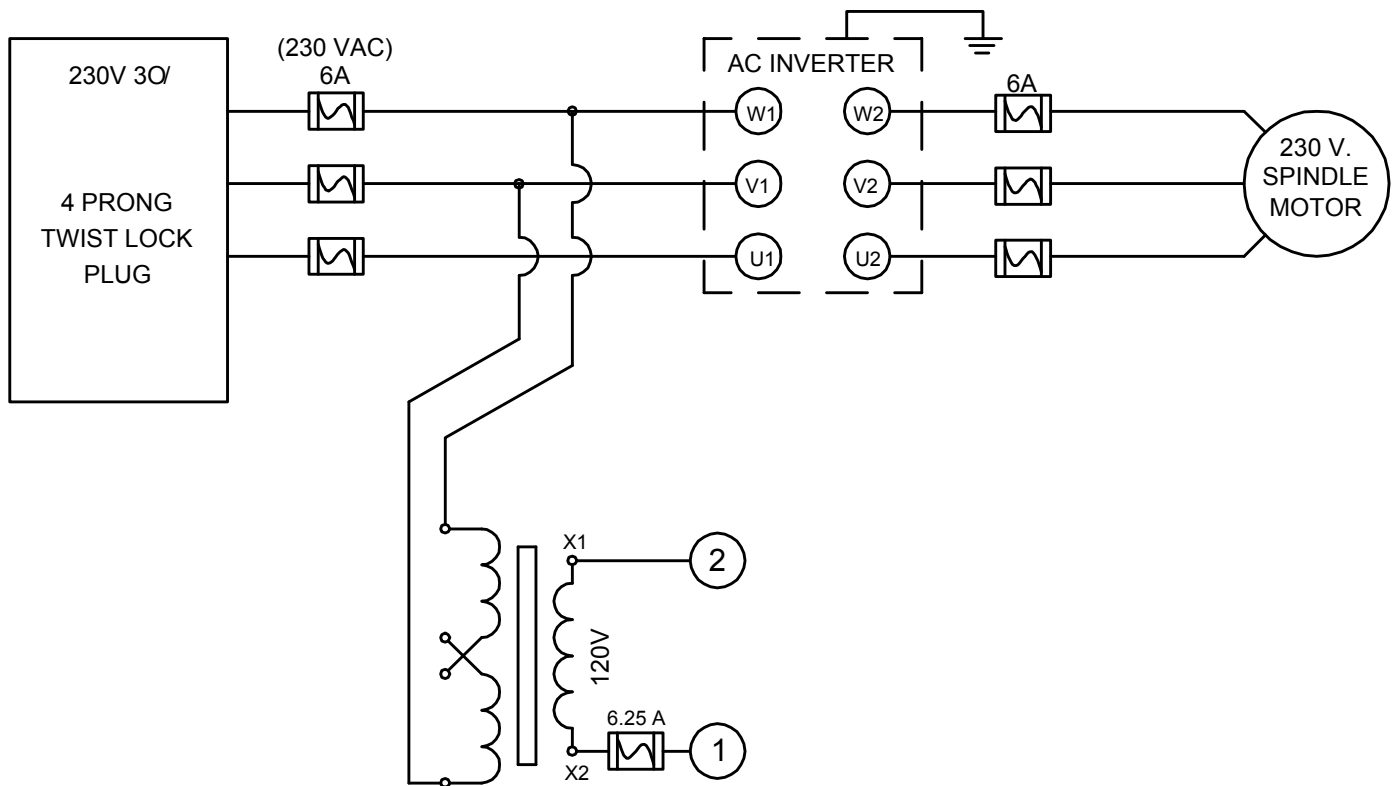
RIGHT



MACHINE

# W-1701 FULL PROFILE SHARPENER

## ELECTRICAL SCHEMATIC 230 VAC, 3 phase line power

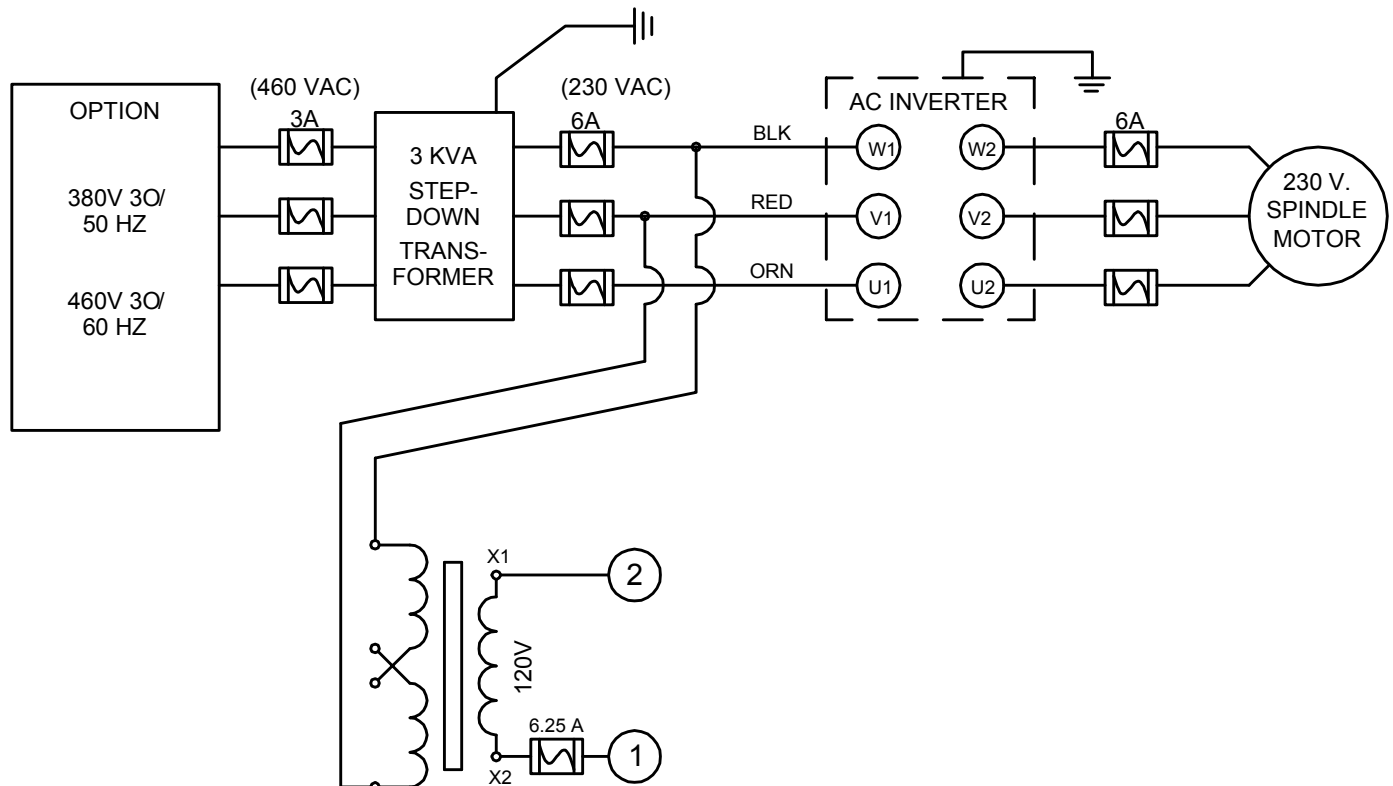


W RIGHT

MACHINE

# W-1701 FULL PROFILE SHARPENER

## ELECTRICAL SCHEMATIC 460 VAC, 3 phase line power

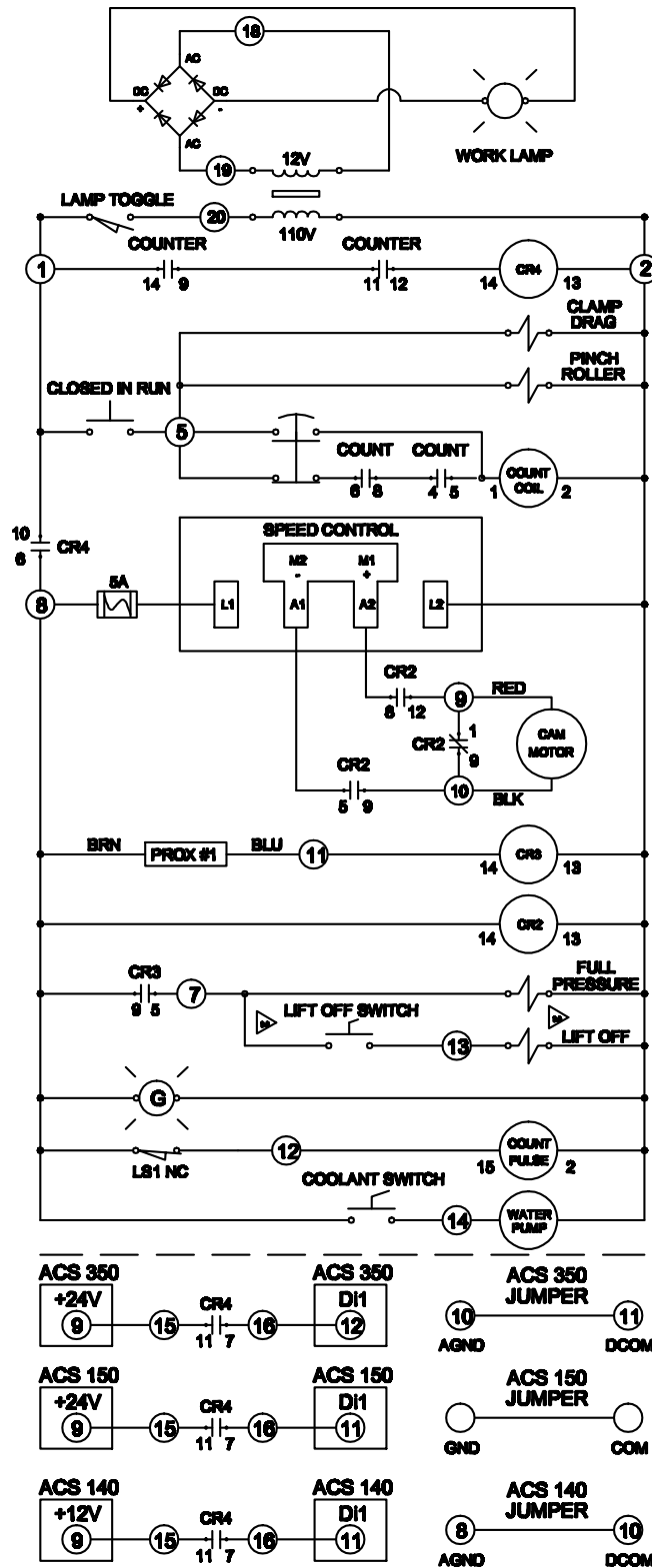


**W** RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

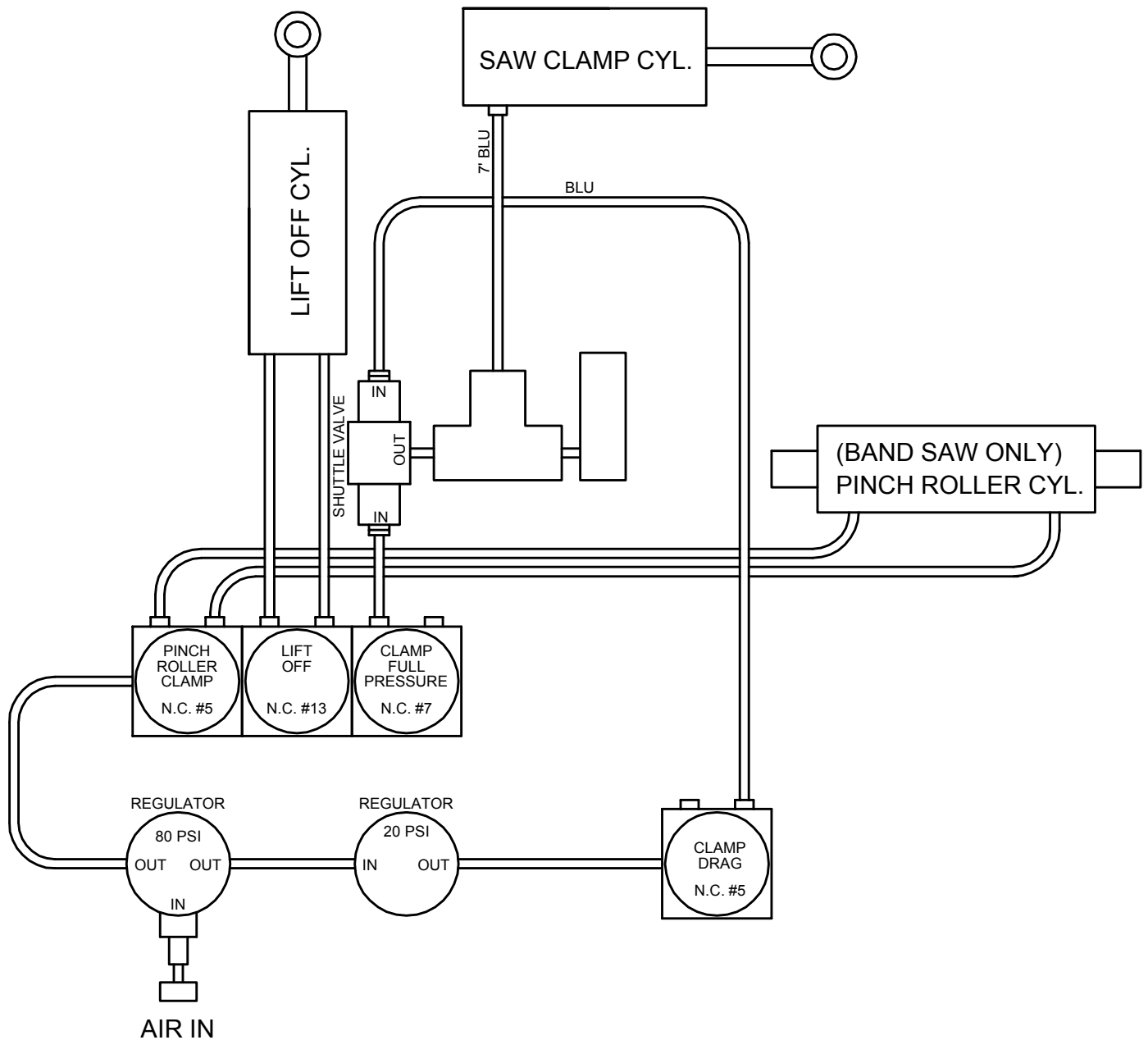
## ELECTRICAL SCHEMATIC





# W-1701 FULL PROFILE SHARPENER

## AIR DIAGRAM



**W** RIGHT

**M**ACHINE

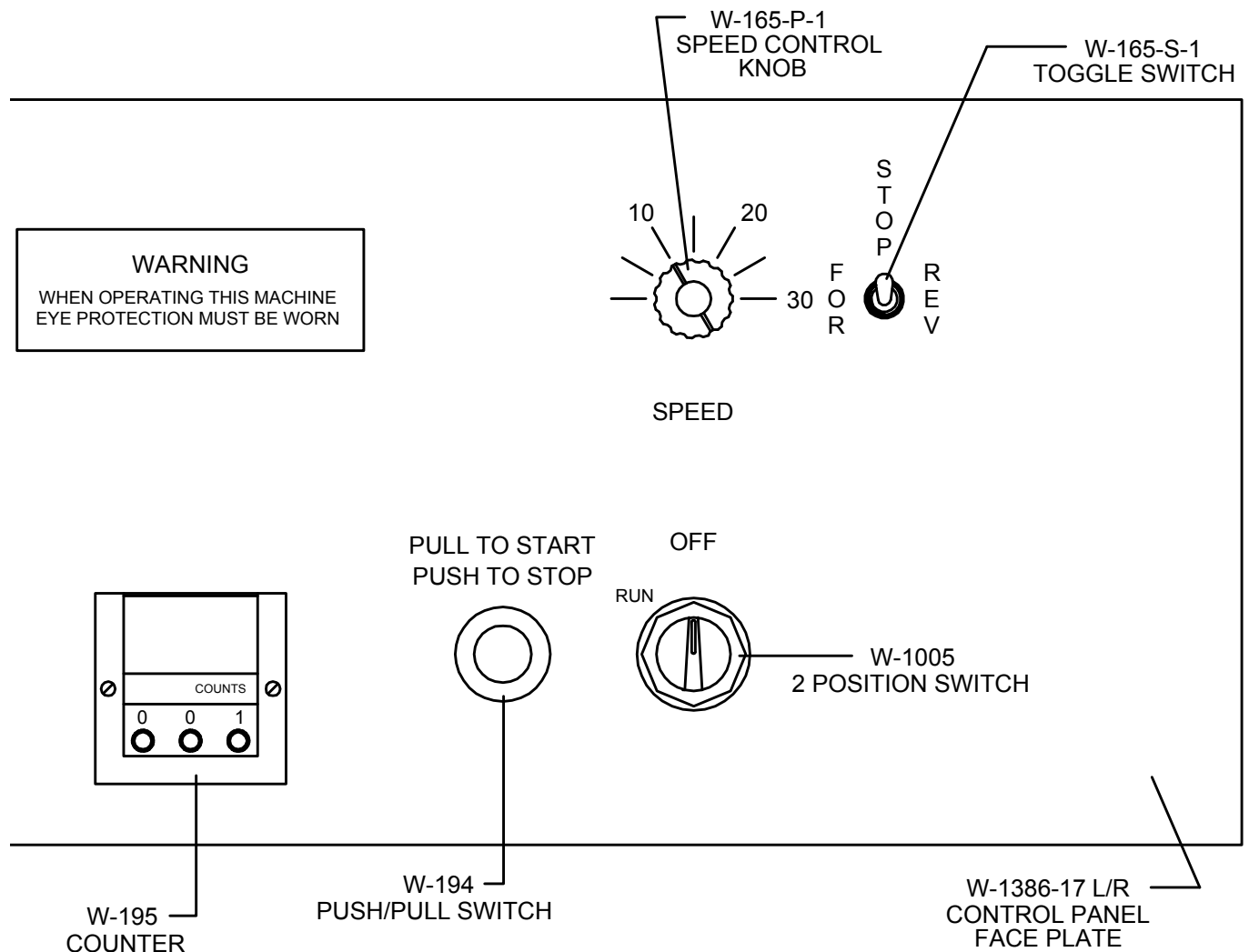
# W-1701 FULL PROFILE SHARPENER

## PARTS LIST

The following parts lists are areas within the machine broken down into various individual assemblies.

### OUTSIDE CONTROL PANEL (LEFT SIDE)

| QTY | PART NUMBER   | DESCRIPTION              |
|-----|---------------|--------------------------|
| 1   | W-1497        | BOOT FOR TOGGLE SWITCH   |
| 1   | W-165-S-1     | TOGGLE SWITCH            |
| 1   | W-165-P-1     | SPEED CONTROL KNOB       |
| 1   | W-195         | COUNTER                  |
| 1   | W-194         | PUSH PULL SWITCH         |
| 1   | W-1005        | 2 POSITION SWITCH        |
| 1   | W-1386-17 L/R | CONTROL PANEL FACE PLATE |

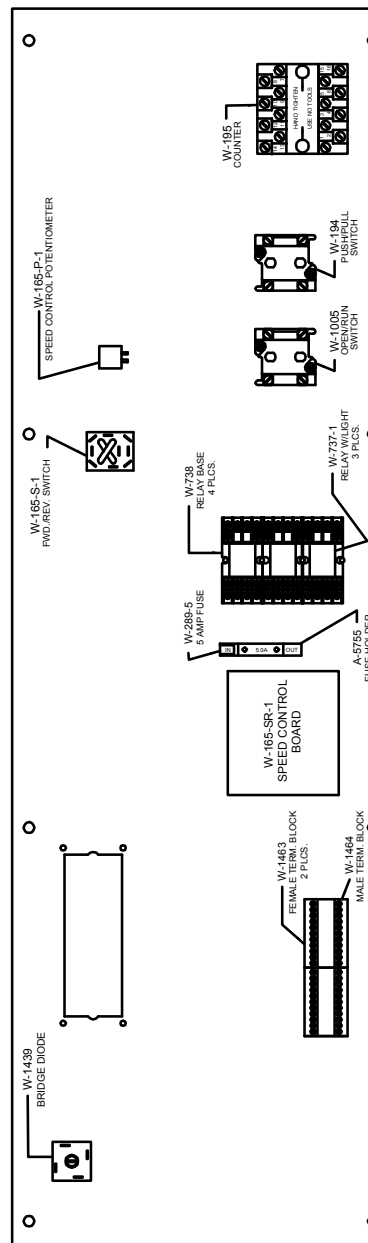


**WM** **RIGHT** **MACHINE**

# W-1701 FULL PROFILE SHARPENER

## INSIDE CONTROL PANEL

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 1   | W-1439      | DIODE               |
| 1   | W-165-SR-1  | SPEED CONTROL BOARD |
| 3   | W-738       | RELAY BASE          |
| 3   | W-737-1     | RELAY WITH LIGHT    |
| 1   | W-289-5     | 5 AMP FUSE          |
| 1   | A-5755      | FUSE HOLDER         |



# W-1701 FULL PROFILE SHARPENER

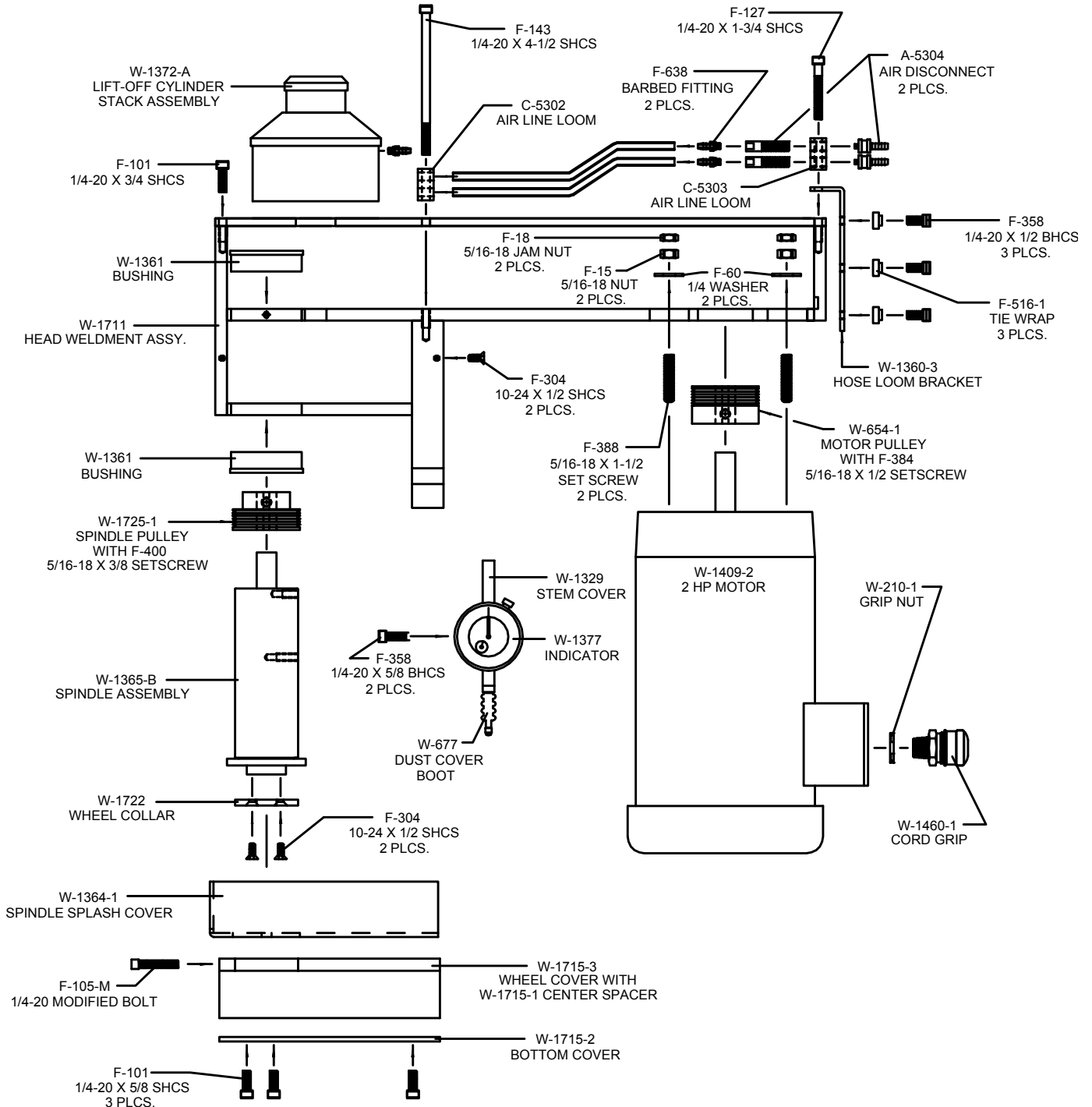
## GRINDING HEAD

| QTY | PART NUMBER | DESCRIPTION                 |
|-----|-------------|-----------------------------|
| 1   | W-1372-A    | LIFT OFF CYLINDER ASSEMBLY  |
| 1   | W-654-1     | MOTOR PULLEY                |
| 1   | W-1725-1    | SPINDLE PULLEY              |
| 1   | W-1726      | SPINDLE BELT                |
| 1   | W-1409-2    | SPINDLE MOTOR               |
| 1   | W-677       | DUST BOOT                   |
| 1   | W-1365-B    | SPINDLE ASSEMBLY            |
| 1   | W-1367      | LEAD SCREW ATTACHMENT       |
| 1   | W-1377      | INDICATOR                   |
| 1   | W-1329      | INDICATOR COVER             |
| 3   | F-304       | SCREW                       |
| 1   | W-1722      | WHEEL HUB NUT               |
| 1   | W-1712      | SPINDLE SPLASH COVER        |
| 1   | W-1715-1    | WHEEL COVER (CENTER SPACER) |
| 1   | W-1715-2    | WHEEL COVER (BOTTOM)        |
| 1   | W-1715-3    | WHEEL COVER (TOP)           |
| 1   | F-105-M     | WHEEL COVER SCREW           |
| 1   | F-101       | HEAD MOUNT SCREW            |
| 1   | F-143       | AIR LINE SCREW              |
| 1   | C-5302      | AIR LINE LOOM               |
| 1   | F-127       | AIR LINE SCREW              |
| 1   | C-5303      | AIR LINE LOOM               |
| 4   | F-358       | SCREW                       |
| 2   | W-1361      | BUSHING                     |
| 1   | W-1711      | HEAD WELDMENT               |
| 2   | F-18        | JAM NUT                     |
| 2   | F-60        | 1/4 WASHER                  |
| 2   | F-15        | 5/16 NUT                    |
| 2   | A-5304      | AIR DISCONNECT              |
| 2   | F-638       | BARBED FITTING              |
| 3   | F-516-1     | CABLE TIE                   |
| 1   | W-1360-3    | HOSE LOOM BRACKET           |
| 2   | F-388       | SET SCREW                   |
| 1   | W-210-1     | GRIP NUT                    |
| 1   | W-1460-1    | CORD GRIP                   |



# W-1701 FULL PROFILE SHARPENER

## GRINDING HEAD



**WM** **RIGHT** **MACHINE**

# W-1701 FULL PROFILE SHARPENER

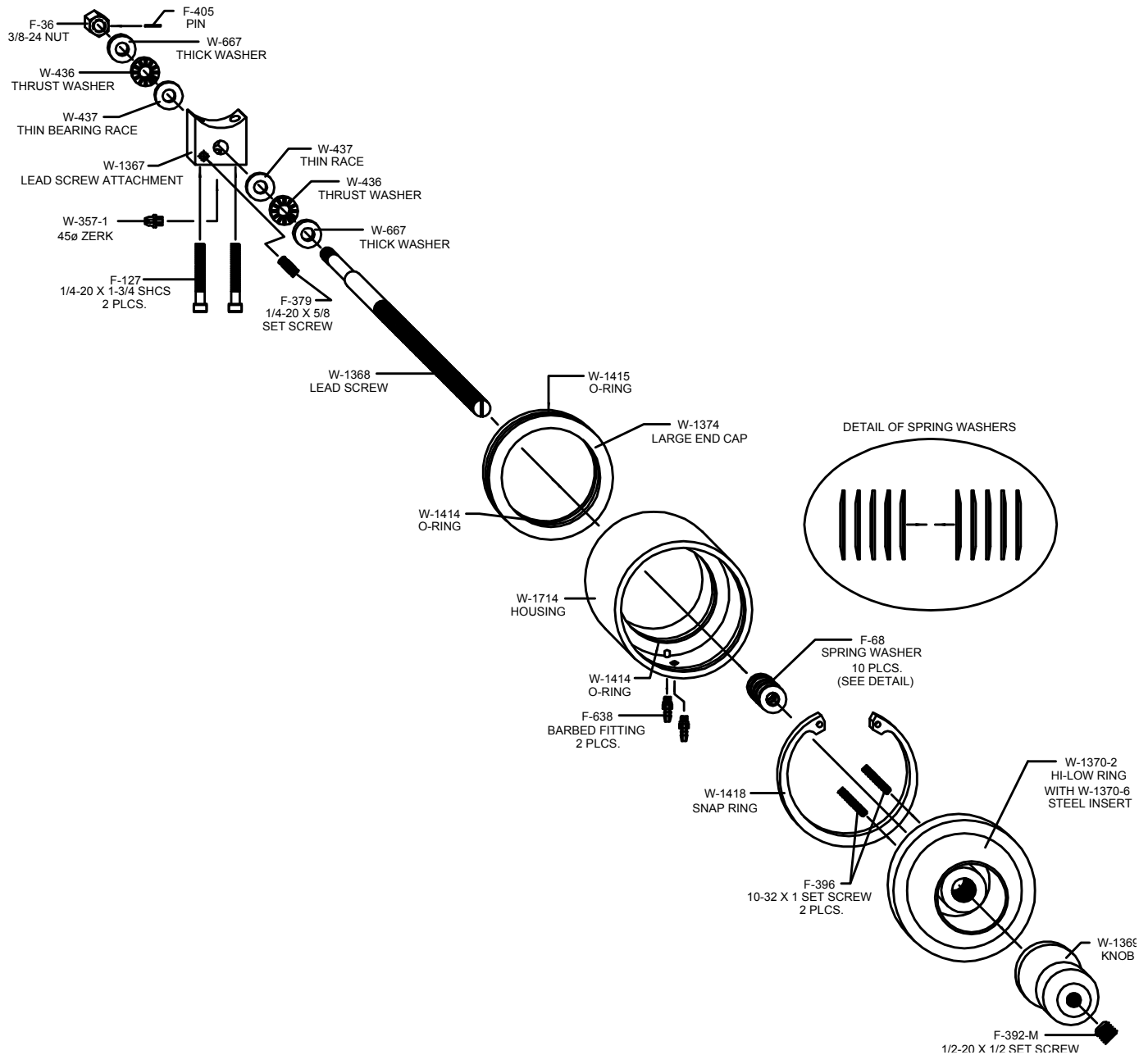
## LIFT OFF CYLINDER ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION           |
|-----|-------------|-----------------------|
| 1   | F-36        | 3/8" NUT              |
| 1   | F-405       | PIN                   |
| 2   | W-667       | THICK WASHER          |
| 2   | W-436       | THRUST WASHER         |
| 2   | W-437       | THIN BEARING RACE     |
| 1   | W-1367      | LEAD SCREW ATTACHMENT |
| 1   | W-357-1     | 45° ZERK FITTING      |
| 2   | F-127       | 1/4" BOLT             |
| 1   | F-379       | 1/4" SET SCREW        |
| 1   | W-1368      | LEADSCREW             |
| 10  | F-68        | SPRING WASHER         |
| 1   | W-1418      | SNAP RING             |
| 2   | F-638       | BARBED FITTING        |
| 1   | W-1714      | HOUSING               |
| 2   | W-1414      | O-RING                |
| 1   | W-1415      | O-RING                |
| 1   | W-1373-B    | LARGE PISTON          |
| 1   | W-1374      | LARGE END CAP         |
| 2   | F-396       | 10-32 SET SCREW       |
| 1   | W-1370-2    | HI-LOW RING           |
| 1   | W-1369      | KNOB                  |
| 1   | F-392-M     | 1/2" SET SCREW        |
| 1   | W-1370-6    | STEEL INSERT          |



# W-1701 FULL PROFILE SHARPENER

## LIFT OFF CYLINDER ASSEMBLY



**W** RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## CLAMP ARM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION          |
|-----|-------------|----------------------|
| 4   | F-148       | 1/4-20 X 3-1/4 SHCS  |
| 1   | F-647       | ELBOW FITTING        |
| 1   | C-5427-2    | CLAMP CYLINDER       |
| 1   | F-634       | 1/8 N.P.T. PLUG      |
| 1   | F-312       | 5/16-18 X 5/8 FHCS   |
| 1   | C-5426-1    | CLAMP PISTON         |
| 1   | A-6988      | O-RING               |
| 1   | W-1799      | PISTON SHAFT         |
| 1   | A-5407-1    | COMPRESSION SPRING   |
| 8'  | F-661-07    | 1/4" BLUE FLEX HOSE  |
| 1   | C-5423      | BRASS BUSHING        |
| 2   | W-357       | GREASE ZERK FITTING  |
| 1   | C-6977-L    | SWING AWAY CLAMP ARM |
| 4   | F-358       | 1/4-20 X 1/2 BHCS    |
| 1   | C-6872-1    | PIVOT PIN            |
| 1   | F-654       | COOLANT FITTING      |
| 1   | C-6984-3    | STAINLESS COVER      |
| 1   | F-112       | 5/16-18 X 1-1/4 SHCS |
| 1   | C-6984-2    | CLAMP SPACER         |
| 1   | C-6985-1    | SPACER PLATE         |
| 2   | F-105       | 1/4-20 X 1-1/4 SHCS  |
| 2   | C-5386      | SPACER               |
| 1   | F-609-1     | "T" FITTING          |



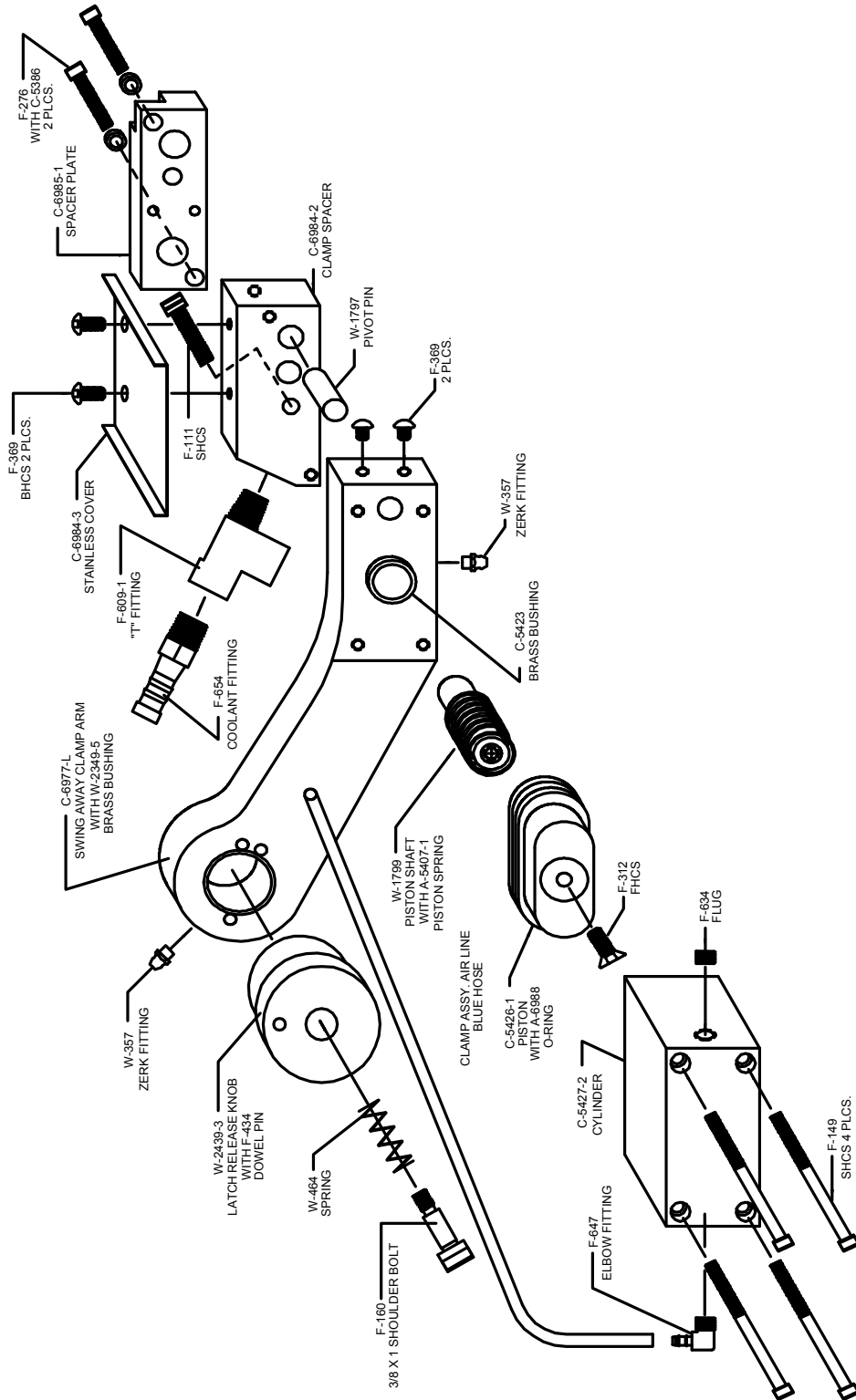
RIGHT

MACHINE



# W-1701 FULL PROFILE SHARPENER

## CLAMP ARM ASSEMBLY



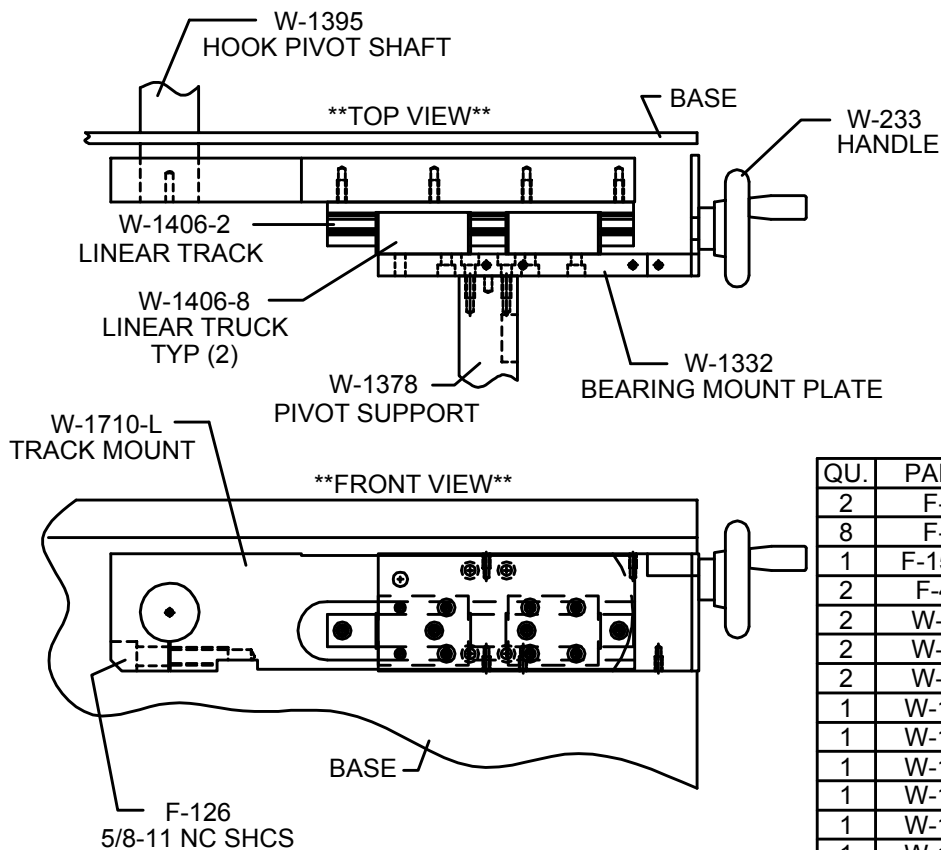
**WRIGHT**

**MACHINE**

# W-1701 FULL PROFILE SHARPENER

## FEED SYSTEM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 1   | W-1395      | HOOK PIVOT SHAFT    |
| 1   | W-1406-2    | LINEAR TRACK        |
| 2   | W-1406-8    | LINEAR TRUCK        |
| 1   | W-1378      | PIVOT SUPPORT       |
| 1   | W-1332-1    | BEARING MOUNT PLATE |
| 1   | W-233       | HANDLE              |
| 1   | W-1710-L    | TRACK MOUNT         |
| 1   | F-126       | 5/8" BOLT           |



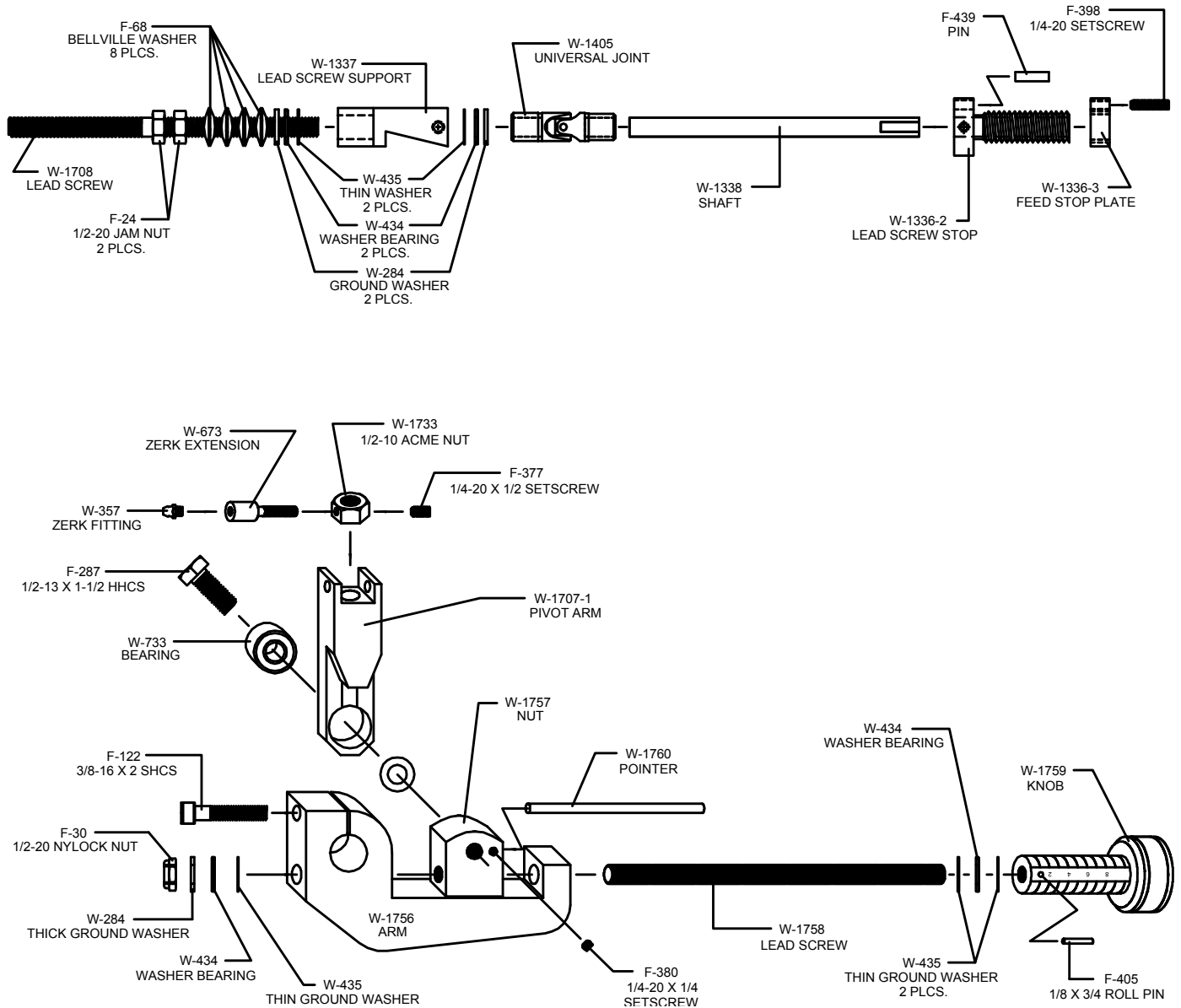
### MISC. PARTS INCLUDE . . .

| QU. | PART #  | DESCRIPTION           |
|-----|---------|-----------------------|
| 2   | F-24    | 1/2-20 JAM NUT        |
| 8   | F-68    | R-6 BELLEVILLE WASHER |
| 1   | F-158-M | PIVOT BOLT MODIFIED   |
| 2   | F-407   | 3/16 X 1 ROLL PIN     |
| 2   | W-284   | BUSHING               |
| 2   | W-434   | WASHER                |
| 2   | W-435   | WASHER                |
| 1   | W-1334  | ARM                   |
| 1   | W-1335  | LEAD NUT              |
| 1   | W-1336  | LEAD SCREW            |
| 1   | W-1337  | LEAD SCREW SUPPORT    |
| 1   | W-1338  | SHAFT                 |
| 1   | W-1405  | U-JOINT               |

**WM** **W** RIGHT **M** MACHINE

# W-1701 FULL PROFILE SHARPENER

## FEED SYSTEM ASSEMBLY CONTINUED



**WM** **W**RIGHT **M**ACHINE



# W-1701 FULL PROFILE SHARPENER

## COOLANT SYSTEM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 21  | W-1295-P    | COOLANT LINE        |
| 1   | W-1295-C    | COOLANT COUPLER     |
| 1   | W-1295-N    | COOLANT NOZZLE      |
| 1   | W-1295-V    | COOLANT VALVE       |
| 1   | W-160-1     | COOLANT PUMP        |
| 2   | F-512       | CABLE TIE           |
| 1   | F-605       | ELBOW               |
| 1   | F-635       | CONNECTOR FITTING   |
| 1   | F-616       | ADAPTER COUPLER     |
| 3   | F-654       | BARBED HOSE FITTING |
| 1   | F-670       | BALL VALVE          |
| 1   | F-609-1     | STREET "T"          |
| 1   | F-667       | BARBED FITTING      |

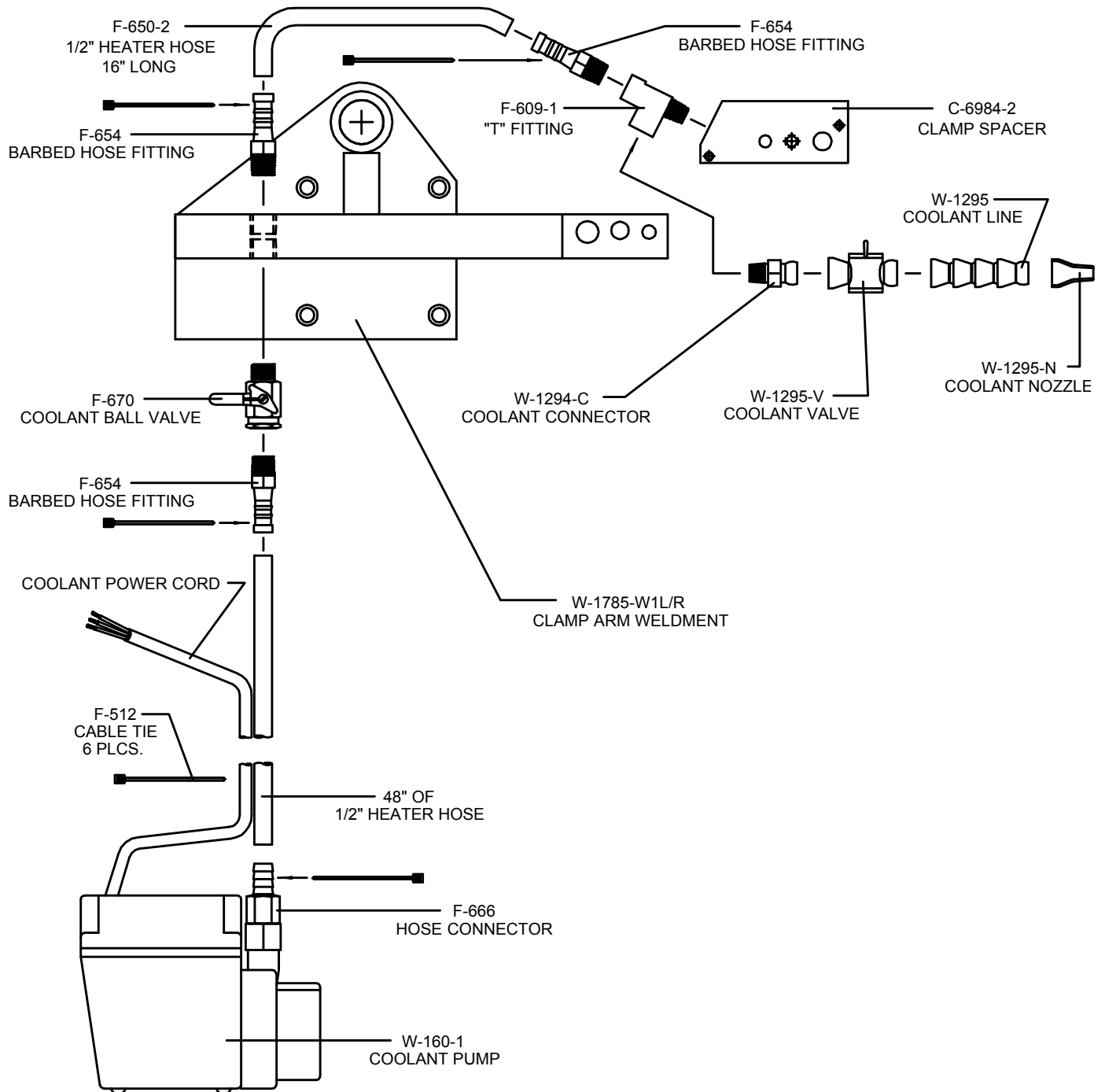


**W** RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## COOLANT SYSTEM ASSEMBLY



# W-1701 FULL PROFILE SHARPENER

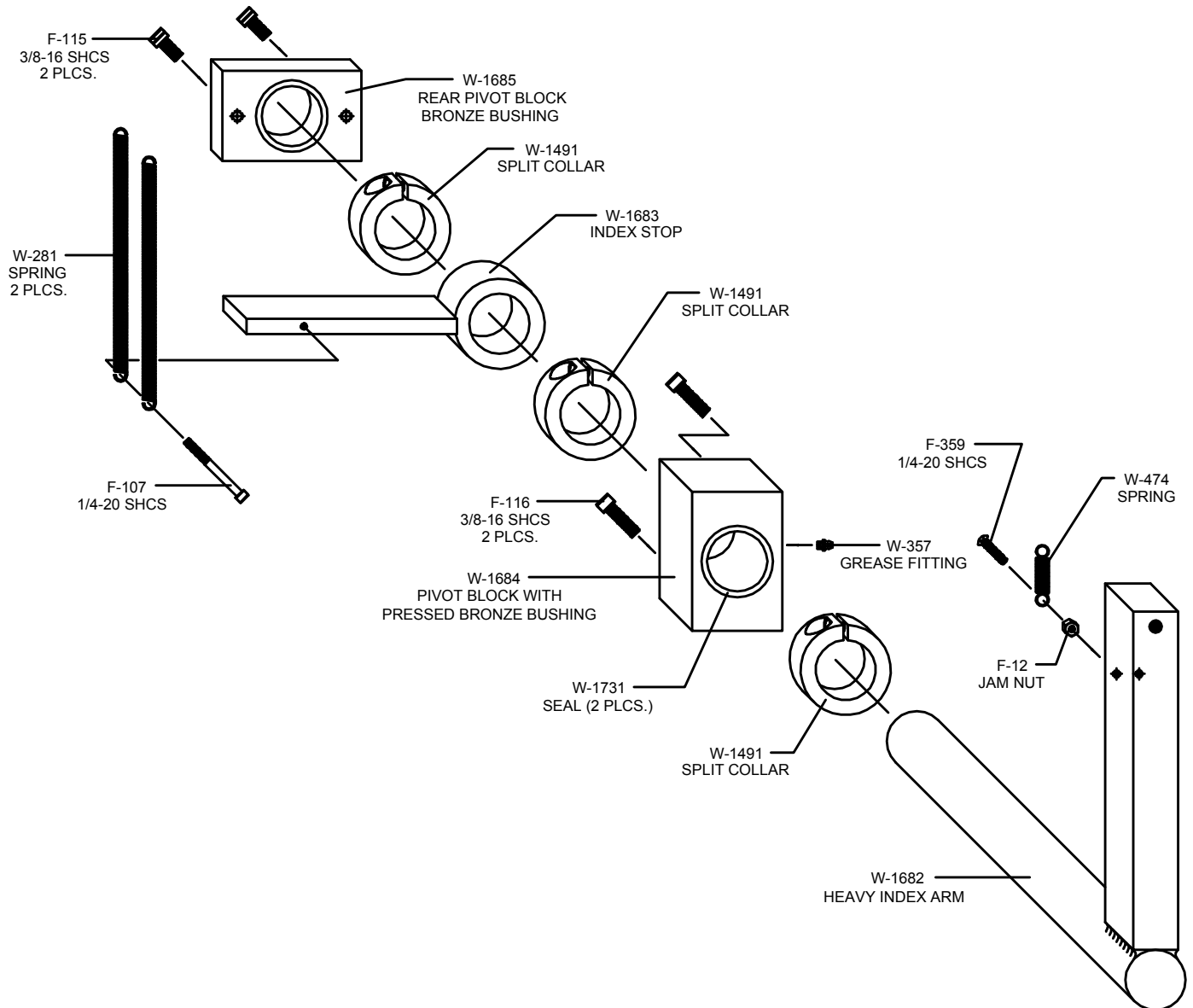
## INDEX ARM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                          |
|-----|-------------|--------------------------------------|
| 1   | F-12        | 1/4-20 JAM NUT                       |
| 2   | F-107       | 1/4-20 X 2-1/2 SHCS                  |
| 2   | F-115       | 3/8-16 X 3/4 SHCS                    |
| 2   | F-116       | 3/8-16 X 1 SHCS                      |
| 1   | F-359       | 1/4-20 X 1 BHCS                      |
| 2   | W-281       | SPRING                               |
| 1   | W-357       | GREASE FITTING                       |
| 1   | W-474       | SPRING                               |
| 3   | W-1491      | SPLIT COLLAR                         |
| 1   | W-1682      | HEAVY INDEX ARM                      |
| 1   | W-1683      | INDEX STOP                           |
| 1   | W-1684      | PIVOT BLOCK WITH BRONZE BUSHING      |
| 1   | W-1685      | REAR PIVOT BLOCK WITH BRONZE BUSHING |



# W-1701 FULL PROFILE SHARPENER

## INDEX ARM ASSEMBLY



**WRIGHT**

**MACHINE**



# W-1701 FULL PROFILE SHARPENER

## INDEX FEED FINGER ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION               |
|-----|-------------|---------------------------|
| 1   | W-259       | INDEX FINGER              |
| 1   | F-304       | FINGER SCREW              |
| 1   | W-1330      | INDEX RAMP SKID           |
| 1   | W-287       | FINGER BOSS               |
| 1   | W-883       | SPRING FOR FINGER         |
| 1   | W-1381      | INDEX FINGER WELDMENT     |
| 2   | W-188       | FINGER BASE PIVOT BEARING |
| 1   | W-1453      | SPRING                    |
| 1   | W-1382      | INDEX ARM                 |



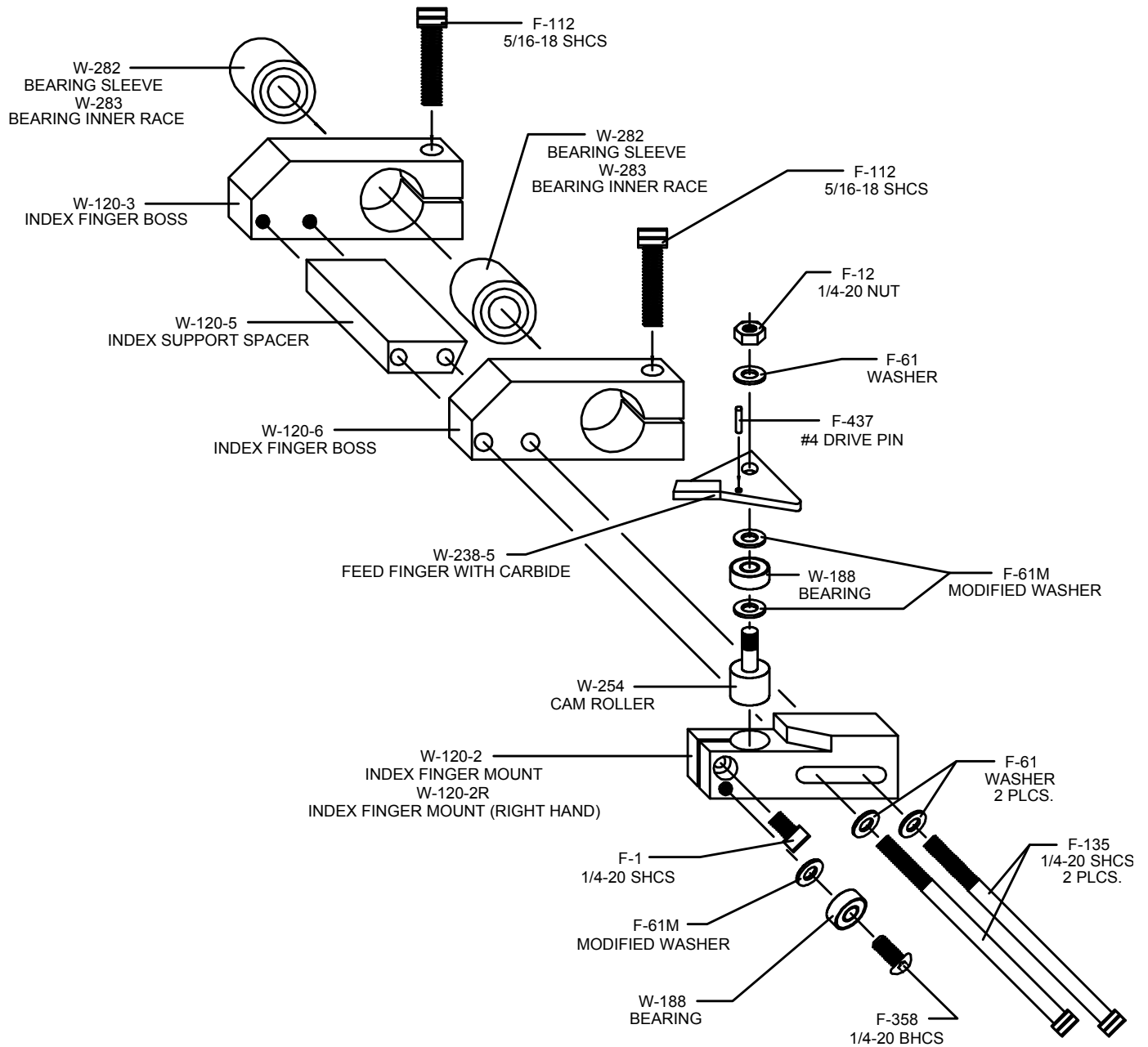
RIGHT



MACHINE

# W-1701 FULL PROFILE SHARPENER

## INDEX FEED FINGER ASSEMBLY



# W-1701 FULL PROFILE SHARPENER

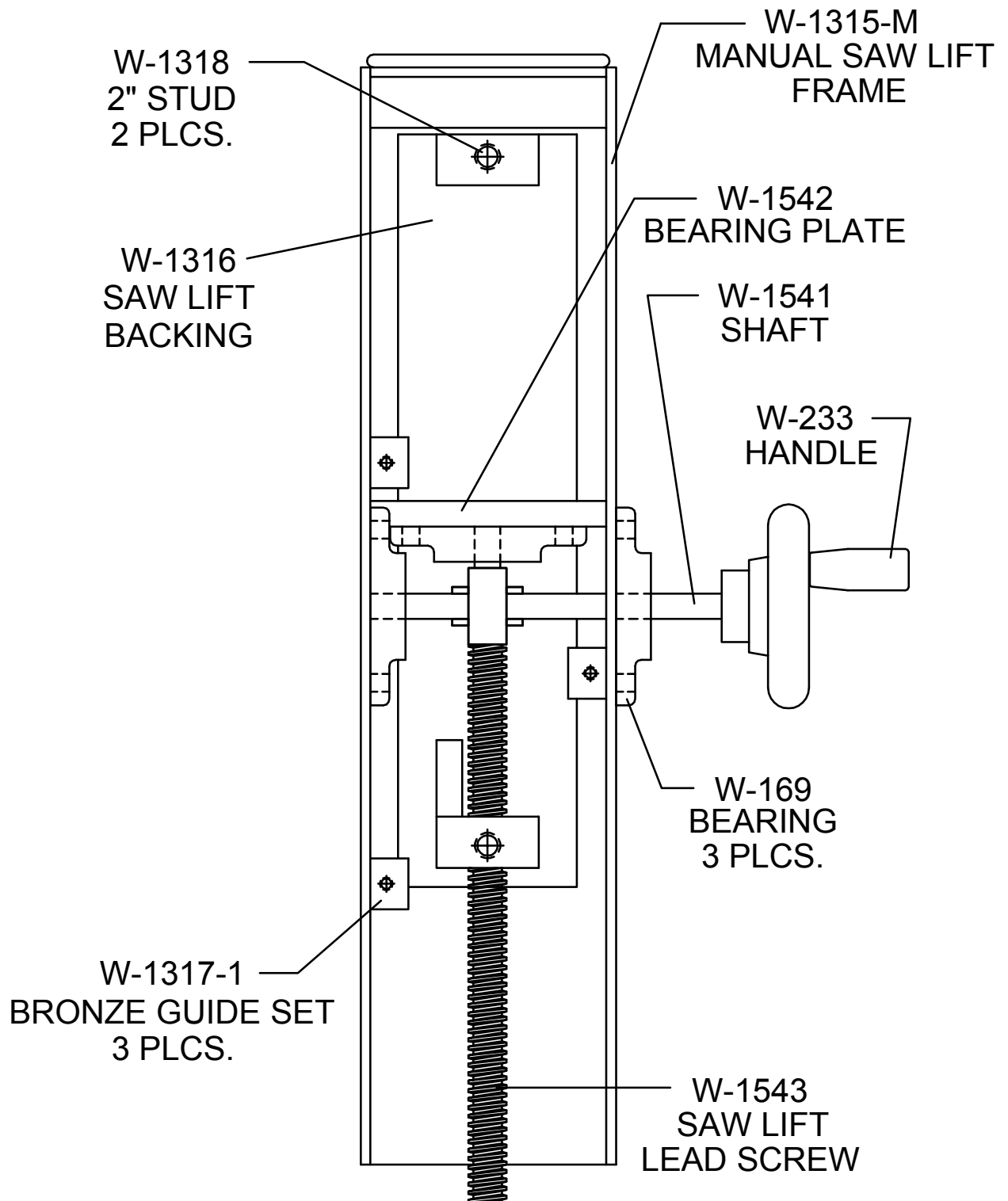
## SAW LIFT ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                  |
|-----|-------------|------------------------------|
| 1   | F-12        | 1/4-20 JAM NUT               |
| 2   | F-58        | 1/4" CUT WASHER              |
| 1   | F-101       | 1/4-20 SOCKET HEAD CAP SCREW |
| 4   | F-102       | 1/4-20 SOCKET HEAD CAP SCREW |
| 6   | F-104       | 1/4-20 SOCKET HEAD CAP SCREW |
| 3   | F-106       | 1/4-20 SOCKET HEAD CAP SCREW |
| 3   | W-1317-1    | BRONZE GUIDE BLOCK           |
| 2   | W-1318      | 2" STUD                      |
| 1   | W-1316      | SAWLIFT BACKING              |
| 1   | W-1315-M    | SAWLIFT FRAME                |
| 1   | W-1542      | BEARING PLATE                |
| 1   | W-1541      | SHAFT                        |
| 1   | W-233       | HANDLE                       |
| 3   | W-169       | PILLOW BLOCK BEARING         |
| 1   | W-1543      | SAWLIFT LEAD SCREW           |



# W-1701 FULL PROFILE SHARPENER

## SAWLIFT ASSEMBLY (BACK SIDE OF SAWLIFT)



**WM** **W** RIGHT **M** MACHINE

# W-1701 FULL PROFILE SHARPENER

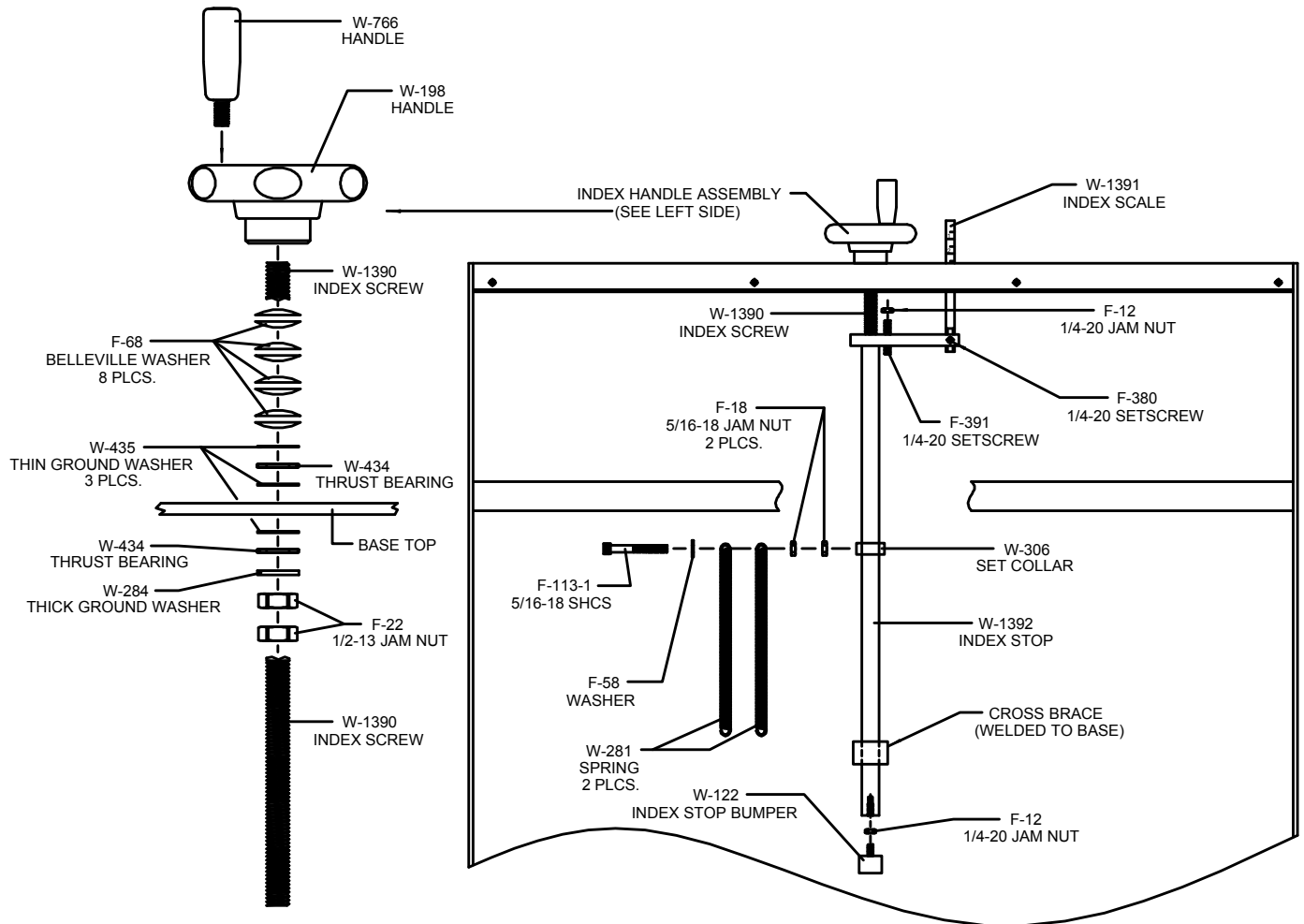
## INDEX ADJUSTMENT ASSEMBLY INSIDE BASE

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 1   | W-766       | HANDLE                        |
| 1   | W-198       | MODIFIED HANDLE               |
| 1   | W-1391      | INDEX SCALE                   |
| 1   | W-1390      | INDEX SCREW                   |
| 3   | F-12        | 1/4-20 JAM NUT                |
| 1   | F-391       | 1/4-20 SET SCREW              |
| 1   | F-380       | 1/4-20 SET SCREW              |
| 1   | W-1392      | INDEX STOP                    |
| 1   | W-122       | INDEX STOP BUMPER             |
| 8   | F-68        | SPRING WASHER                 |
| 3   | W-435       | THIN GROUND WASHER            |
| 2   | W-434       | THRUST BEARING                |
| 1   | W-284       | THICK GROUND WASHER           |
| 2   | F-18        | 5/16-18 JAM NUT               |
| 1   | F-113-1     | 5/16-18 SOCKET HEAD CAP SCREW |
| 1   | F-58        | WASHER                        |
| 1   | W-306       | SET COLLAR                    |
| 2   | W-281       | SPRING                        |



# W-1701 FULL PROFILE SHARPENER

## INDEX ADJUSTMENT ASSEMBLY INSIDE BASE



# W-1701 FULL PROFILE SHARPENER

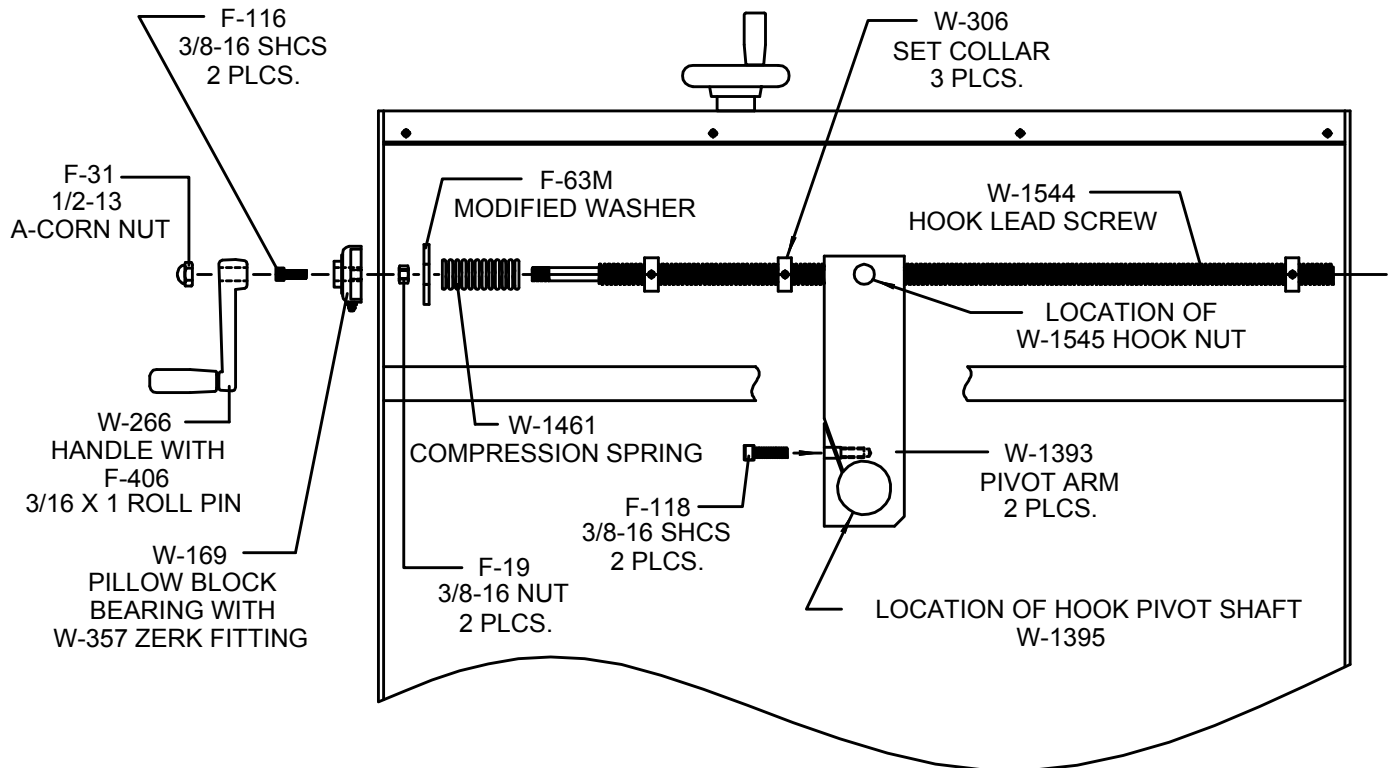
## HOOK SHAFT CRANK HANDLE ASSEMBLY INSIDE BASE

| QTY | PART NUMBER | DESCRIPTION          |
|-----|-------------|----------------------|
| 2   | F-116       | 3/8-16 BOLT          |
| 1   | F-31        | 1/2-13 A-CORN NUT    |
| 1   | F-63M       | MODIFIED WASHER      |
| 1   | W-1544      | HOOK LEAD SCREW      |
| 1   | W-266       | HANDLE               |
| 1   | F-406       | 3/16 X 1 ROLL PIN    |
| 1   | W-169       | PILLOW BLOCK BEARING |
| 1   | W-357       | ZERK GREASE FITTING  |
| 1   | W-1461      | COMPRESSION SPRING   |
| 2   | F-118       | 3/8-16 BOLT          |
| 2   | F-19        | 3/8-16 NUT           |
| 2   | W-1393      | PIVOT ARM            |
| 3   | W-306       | SET COLLAR           |
| 1   | W-1545      | HOOK NUT             |



# W-1701 FULL PROFILE SHARPENER

## HOOK SHAFT CRANK HANDLE ASSEMBLY INSIDE BASE



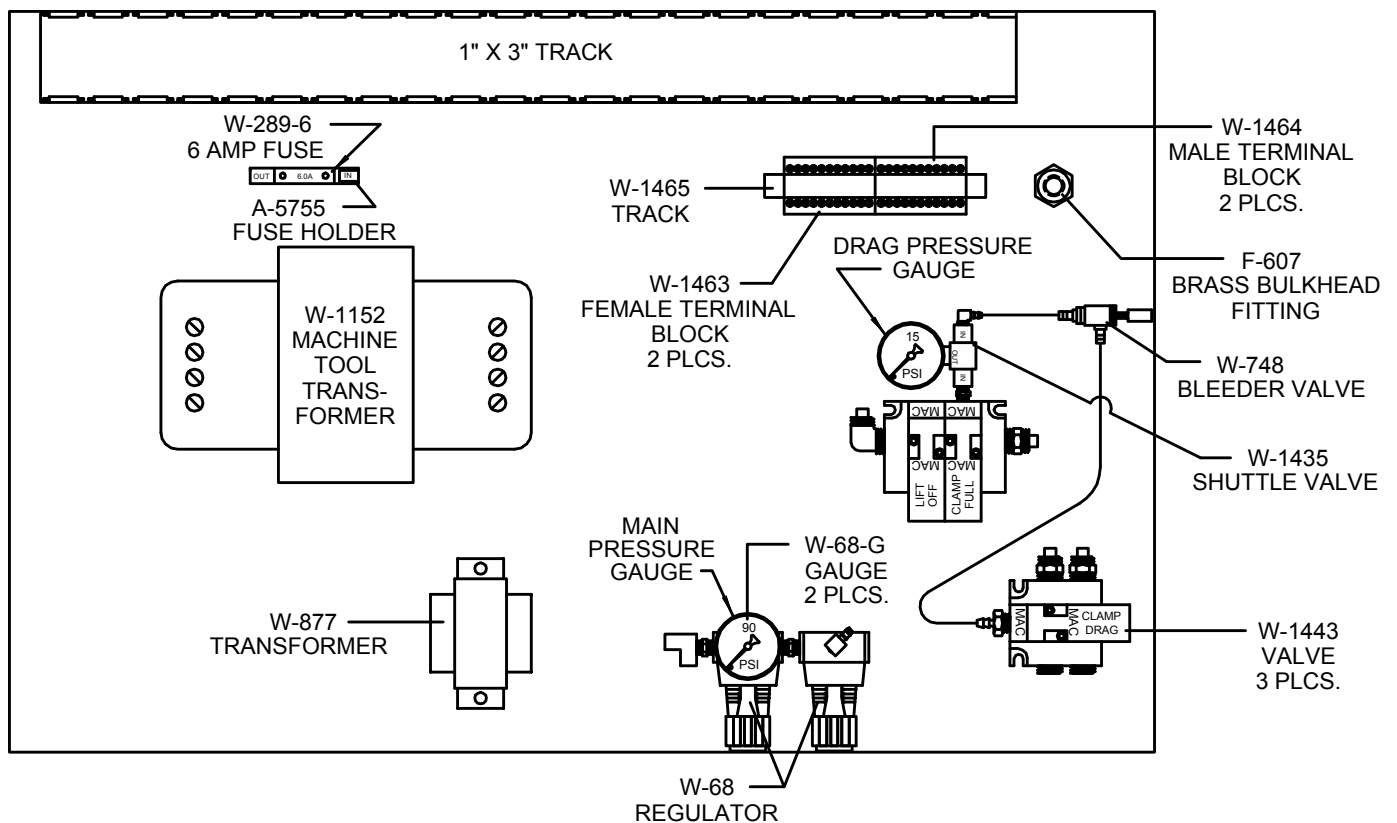


# W-1701 FULL PROFILE SHARPENER

## INSIDE REAR DOOR

| QTY | PART NUMBER | DESCRIPTION                |
|-----|-------------|----------------------------|
| 1   | W-1429      | TRANSFORMER (BUCK BOOST)   |
| 1   | W-1152      | TRANSFORMER (MACHINE TOOL) |
| 1   | W-289-6     | 6-1/4 AMP FUSE             |
| 2   | W-68        | REGULATOR                  |
| 2   | W-68-G      | GAUGE                      |
| 3   | W-1443      | VALVE                      |
| 2   | W-1463      | FEMALE TERMINAL BLOCK      |
| 2   | W-1464      | MALE TERMINAL BLOCK        |

## SUB PANEL ASSEMBLY (INSIDE REAR DOOR)



# W-1701 FULL PROFILE SHARPENER

## CAM AREA

| QTY | PART NUMBER | DESCRIPTION          |
|-----|-------------|----------------------|
| 1   | W-1438      | LIMIT SWITCH (MICRO) |
| 1   | W-1437      | PLUNGER FOR MICRO    |
| 1   | W-221       | INDEX CAM            |
| 1   | W-220       | CAM HUB              |
| 1   | W-1383      | FEED CAM             |
| 2   | W-189       | CAM FOLLOWER         |
| 2   | F-13        | 5/16-24 JAM NUT      |
| 1   | W-1681      | REAR INDEX ARM       |
| 1   | F-122       | 3/8-16 BOLT          |
| 1   | W-1398-1    | REAR FEED ARM        |
| 1   | W-1780      | TRIP CAM             |



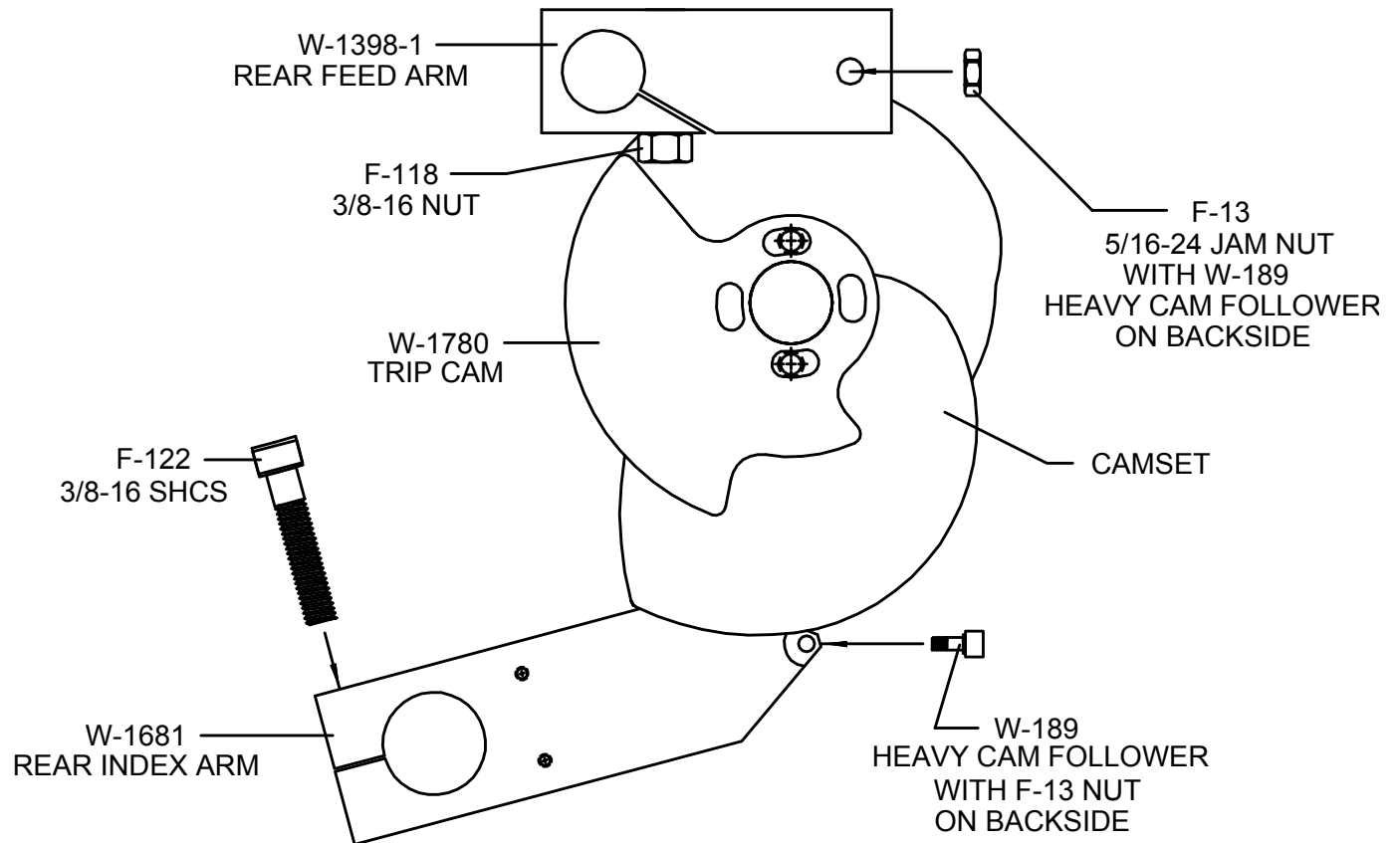
RIGHT



MACHINE

# W-1701 FULL PROFILE SHARPENER

## CAM AREA

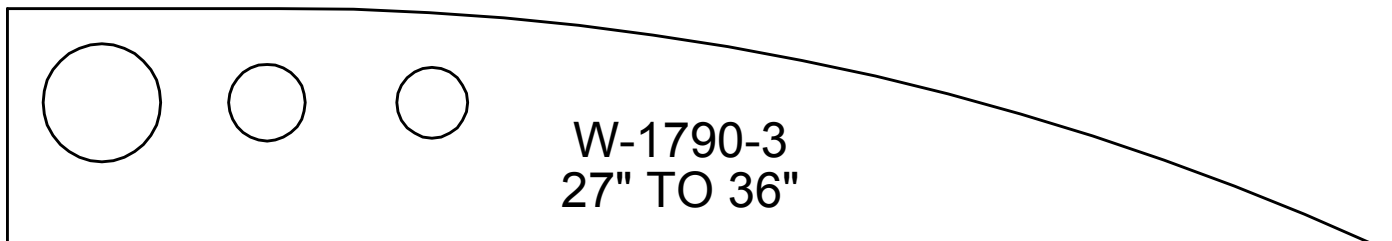
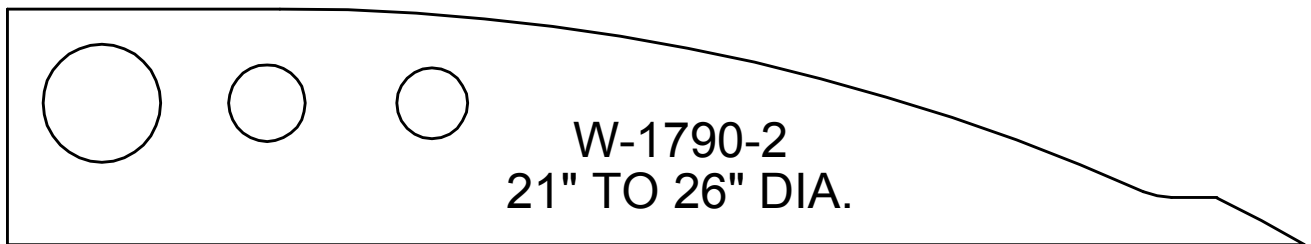
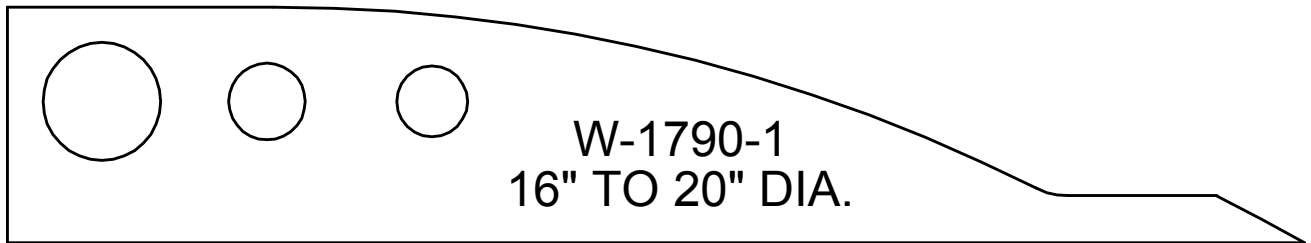


**W**RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

VARIOUS RAMPS FOR DIFFERENT SAW DIAMETERS



**W** RIGHT

**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

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460 VAC 30

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# W-1701 FULL PROFILE SHARPENER

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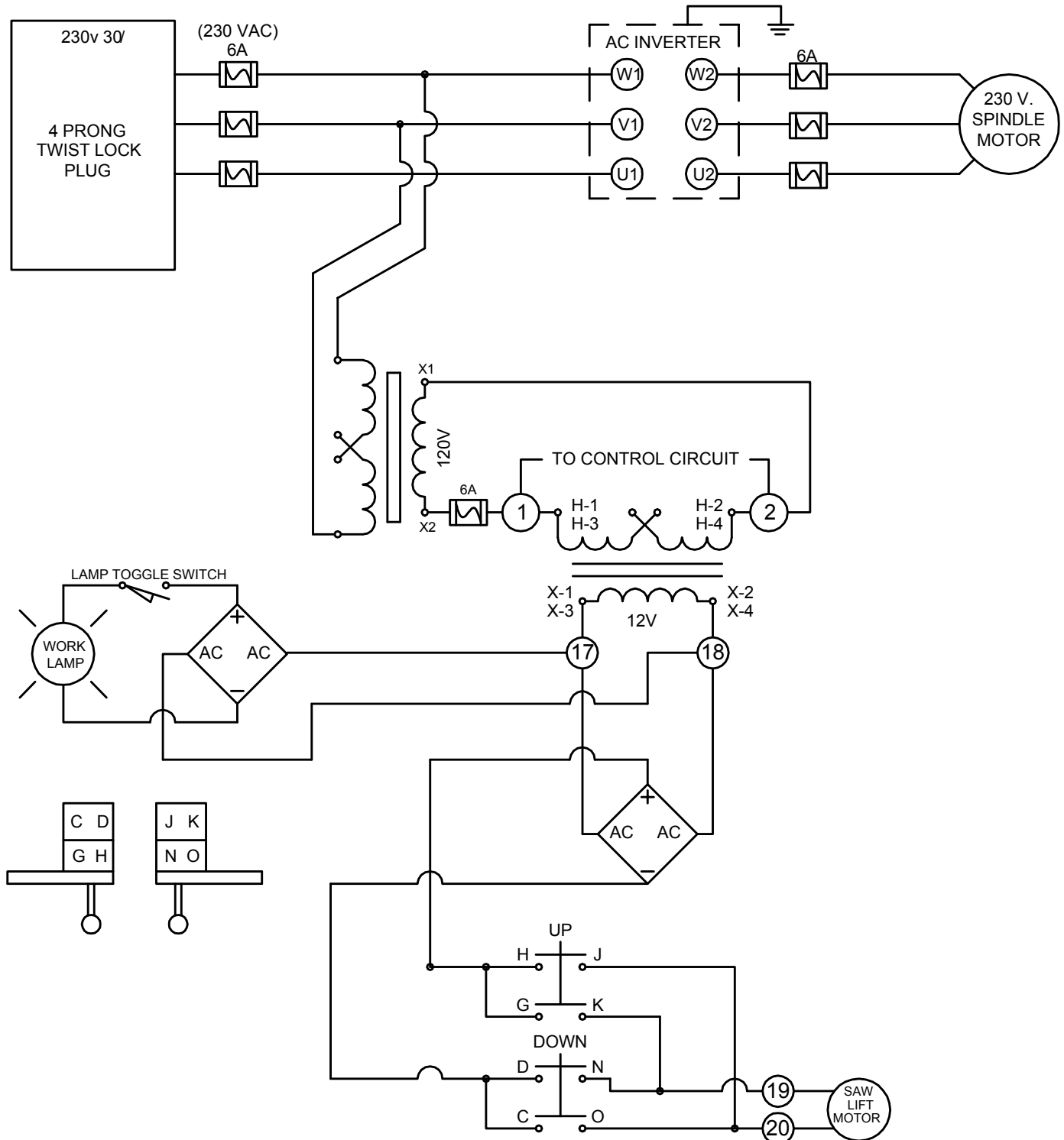
WHEEL R.P.M. 14



**M**ACHINE

# W-1701 FULL PROFILE SHARPENER

## ELECTRICAL SCHEMATIC power saw option



**WM** **RIGHT** **M** **ACHINE**