

TM 9-3405-216-14&P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE
MANUAL INCLUDING REPAIR PARTS LIST

FOR

SAW, BAND
MODEL L-9
(NSN 3405-00-473-6430)
W.F. Wells & Sons, Inc.

HEADQUARTERS, DEPARTMENT OF THE ARMY

AUGUST 1982

Technical Manual

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HEADQUARTERS
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Washington, DC, 4 August 1982

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REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A Reply will be furnished directly to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this equipment is issued.

Manufactured by: W.F. Wells & Sons, Inc.
16645 Heimbach Road
Three Rivers, Michigan 49093

Procured under Contract No. DAAA09-79-C-4819

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

INSTRUCTIONS FOR REQUISITIONING PARTS

NOT IDENTIFIED BP NSN

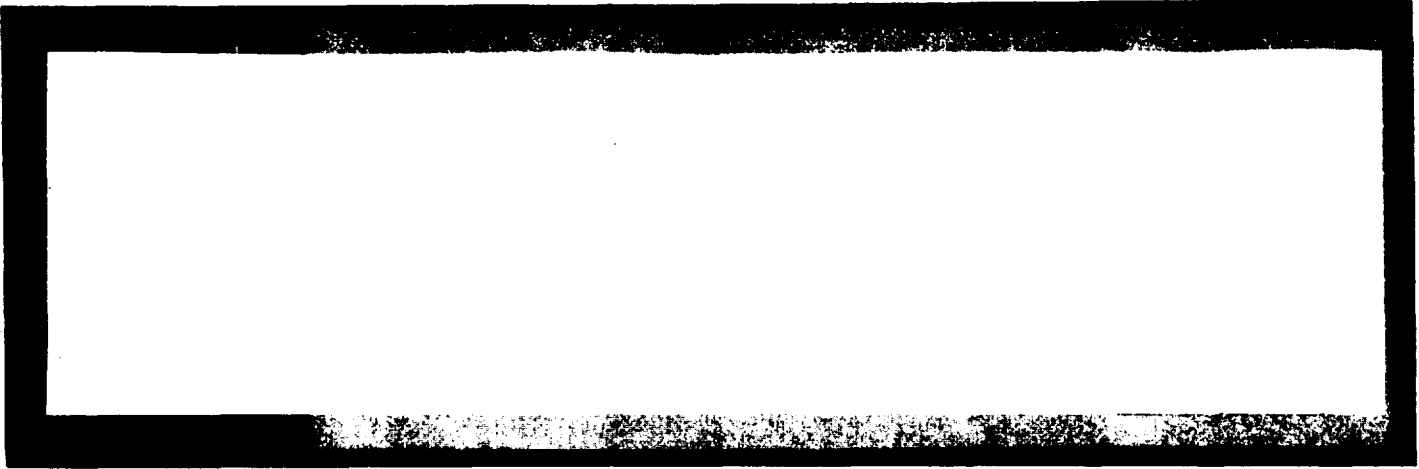
When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

- 1 - Manufacturer's Federal Supply Code Number. 82331
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number. L-9
- 5 - Manufacturer's Serial Number (End Item).
- 6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

- (a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 82331 followed by a colon and manufacturer's Part Number for the repair part.
- (b) Complete Remarks field as follows:
Noun: (nomenclature or repair part)
For: NSN: 3405-00-473-6430
Manufacturer: W. F. Wells & Sons Inc.
16645 Heimbach Road
Model: L-9 Three Rivers, Michigan 49093
Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.



SAFETY MANUAL

For Use and Care of Band Sawing Machinery

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A. OSHA AND THE METAL CUTTING BAND SAW MACHINE

A1. As of this writing OSHA regulations do not carry a single set of standards for metal band sawing machinery such as those applying to presses. Instead, metal band sawing machinery falls under the general safety regulations. This means that each inspector makes his own decisions as to whether or not a machine is safe and properly guarded.

A2. In this manual we will present the safety points we have found to be of importance to many inspectors.

A3. The general regulations provide many rules for your guidance. Listed below are the most common safety problems in the field. However, let us stress that this is our interpretation, and that your area inspector is the proper person to contact for answers to your questions. He may require safety devices other than those suggested here, based on more recent rulings or regulations.

A4. Many states also have codes similar to OSHA, but with different interpretations. Therefore, we will limit this discussion to the national requirements. You should check with your own area inspector for further regulations.

A5.

A. The machine should be installed in accordance with the national electrical code and any area codes that are more restrictive.

B. Be sure to ground the machine with the grounding wire. This wire should be green.

C. Sawing machines should have all guards in place and maintained in good condition.

D. A guard should be used to cover the saw blade from the cutting head to the blade guides.

E. Most metal sawing is below the 90 decibel noise level. However, when using high blade speeds, check for excessive noise and consult your regional OSHA Office for proper employee protection when over 90 decibels.

F. Be sure to train employees who operate and maintain the machine in accordance with this manual and the other manuals supplied with the machine.

G. We recommend you discuss the possibility of color coding the various parts of your machine with your area inspector.

B. SAFETY DURING INSTALLATION

B1. Many metal cutting band sawing machines are top heavy and should always be handled as such. Use tag chains when moving a machine with fork lift trucks or cranes.

B2. Do not lift the machine by the cutting head when moving with fork lift trucks or cranes. Lift the machine only by connecting to the base or bed.

B3. When moving the machine, be careful to place slings and chains where they will not damage hydraulic hose, tubing, fittings or electrical equipment.

B4. After installation, make sure the machine has been grounded with the grounding wire, and that the energized conductors are properly attached to the switch terminals (and not accidentally crossed with the grounding wire). Check the voltage before using the machine to be sure of the proper connection.

B5. Install the machine to comply with any area code as well as the national electrical code.

C. SAFETY DURING OPERATION

C1. The operator should always keep his hands and feet clear when operating a metal band sawing machine to prevent injury from moving parts or while loading or removing metal pieces.

C2. Reports show that many accidents while working around metal sawing machines are caused by dropping work pieces on the toes, and in some cases over half of the reported accidents were from this cause.

C3. Never place round barstock or cut pieces on a stock support table without some type of retaining device to keep them from rolling off the table.

C4. Use some type of supporting or catching device for the cut off work pieces, whether long or short. They can drop off unexpectedly and injure feet and legs.

C5. Never use pedestal type single roller stock support devices (stock stands) with heavy loads. They are very unstable with large bars and tip over easily. These devices are designed for light loads that can be lifted manually and placed on the roller by one operator.

C6. When cutting thin pieces from large blocks (such as die blocks) always remember these thin work pieces are likely to tip over when cut off. Take steps to support them or they can cause injury.