

DEPARTMENT OF THE ARMY
TECHNICAL MANUAL
DEPARTMENT OF THE AIR
FORCE TECHNICAL ORDER

OPERATION
ORGANIZATIONAL MAINTENANCE
AND FIELD MAINTENANCE
8 X 16-INCH CAPACITY
SINGLE-PHASE 60-CYCLE
110/220-VOLT
112-HORSEPOWER
HORIZONTAL METAL CUTTING
(MACHINE) BANDSAW
(WELLS MFG MODEL 8) (40-S-567)



*DEPARTMENTS OF THE ARMY AND THE AIR FORCE
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This manual is correct to 2 March 1956

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DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
WASHINGTON 25, D. C., 5 April 1956

8 X 16-INCH CAPACITY SINGLE-PHASE
60-CYCLE 110/220-VOLT V2-HORSEPOWER HORIZONTAL
METAL-CUTTING (MACHINE) BANDSAW
(WELLS MFG MODEL 8) (40-S-567)

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1. Scope

a. This manual contains instructions for operation and organizational maintenance of the bandsaw by the using organization, and instructions for field maintenance of the bandsaw by ordnance maintenance personnel.

b. The appendix contains a list of current references, including supply manuals, technical manuals, and other available publications applicable to the bandsaw.

c. The following manufacturers' symbols are used preceding the manufacturers' part numbers when identifying items on illustrations and in tables and listings:

GV -----	Gates Rubber Company
PEL -----	The Peerless Electric Company
WLS -----	Wells Manufacturing Corporation

d. This first edition is published in advance of complete technical review. Any errors or omissions will be brought to the attention of the Chief of Ordnance, Department of the Army, Washington 25, D. C., ATTN: ORDFM, using DA Form 468 (Unsatisfactory Equipment Report).

2. Maintenance Allocation

a. *Organizational Maintenance Allocation.* In general, the prescribed organizational maintenance responsibilities will apply as reflected in the allocation of tools and maintenance parts in the appropriate column of the current ORD 7-8 SNL J-677 supply manual pertaining to this materiel and in accordance with the extent of disassembly prescribed in this manual for the purpose of cleaning, lubricating, or replacing authorized spare parts. In all cases where the nature of repair, modification, or adjustment is beyond the scope of facilities of the using organizations, the supporting ordnance maintenance unit should be informed so that trained personnel with suitable tools and equipment may be provided or other proper instructions issued.

b. *Field Maintenance Allocation.* The publication herein of instructions for complete disassembly and repair is not to be construed as authority for the performance by field maintenance units

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of those functions which are restricted to depots and arsenals. In general, the prescribed maintenance responsibilities will apply as reflected in the allocation of maintenance parts listed in the field maintenance columns of the current ORD 7-8 SNL J-677 supply manual pertaining to the bandsaw. Provision of parts listed in the depot stock guide column of ORD 7-8 SNL J-677 supply manual will be made to field maintenance only when the emergency nature of the maintenance to be performed has been certified by a responsible officer of the requisitioning organization.

3. Forms, Records, and Reports

a. General. Responsibility for proper execution of forms, records, and reports rests upon the officers of all units maintaining this equipment. However, the value of accurate records must be fully appreciated by all persons responsible for their compilation, maintenance, and use. Records, reports, and authorized forms are normally utilized to indicate the type, quantity, and condition of materiel to be inspected, repaired, or used in repair. Properly executed forms convey authorization and serve as records for repair or replacement of materiel in the hands of troops and for delivery of materiel requiring further repair to ordnance shops in arsenals, depots, etc. The forms, records, and reports establish the work required, the progress of the work within the shops, and the status of the materiel upon completion of its repair.

b. Authorized Forms. The forms generally applicable to units operating or maintaining this materiel are listed in the appendix. For a complete listing of all forms, see current DA Pam 310-2. For instructions on use of these forms, refer to FM 9-10.

c. Field Reports of Accidents. The reports necessary to comply with the requirements of the Army safety program are prescribed in detail in SR 385-10-40. These reports are required whenever accidents involving injury to personnel or damage to materiel occur.

d. Report of Unsatisfactory Equipment or Materials. Any suggestion for improvement in design and maintenance of equipment and spare parts, safety and efficiency of operations or pertaining to the application or effect of prescribed lubricants and 'or preserving materials, or technical inaccuracies noted in Department of Army publications will be reported through technical channels as prescribed in AR 700-38 to the Chief of Ordnance, Washington 25, D. C., ATTN: ORDFM, using DA Form 468. Such suggestions are encouraged in order that other organizations may benefit.

Note. Do not report all failures or malfunctions that occur. Report only REPEATED OR RECURRENT failures or malfunctions which indicate unsatisfactory design or material. See also AR 700-38 and the printed instructions on DA Form 468.

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Section II. DESCRIPTION AND DATA

4. Description

The bandsaw (figs 1 and 2) is normally a floor mounted bandsaw designed to operate on ac current only. The motor name plate (fig. 1) is marked 115/230 volts, but reference will be made throughout this manual to the more commonly expressed 110/220 volts as indicated in title of manual. This bandsaw is used for cutting solid steel, tubing, and odd shapes of materiel.

5. Serial Number Information and Data Plates

A bandsaw name plate (fig. 1) is mounted on the left, top side of the saw frame assembly which lists the name of the bandsaw, model, serial number, a note for maximum bandsaw blade life, and the manufacturer's name and address. A deal which also lists the name of the bandsaw and the manufacturer's name and address, is cemented on the center top side of the saw frame. A motor name plate is mounted on the motor which lists the manufacturer's name and address, horsepower, temperature, type, phase, cycle, amperage, frame and serial numbers, an electrical diagram for making connections for use of a 110/220 volt power source, and instructions for lubrication of the ball bearings.

6. Tabulated Data

Manufacturer-----Wells Manufacturing Corp.
Model-----8
Vise capacity for:
 Rectangular shapes ----- 8 x 16 in.
 Round shapes----- 8 in. dia.
Type of drive ----- V-belt
Speed capacity:
 Three speed-FPM----- 60, 90, 130
Bandsaw blade size ----- 0.032 x 3/4 in. x 11 ft 6 in.
Height to top of bed ----- 25 1/2 in.
Width of bed ----- 10 1/4 in.
Floor space ----- 24 x 72 in.
Shipping weight ----- 590 lb.
Motor:
 Manufacturer -----Peerless Electric Company
 Part number ----- H16B-Model R-1050
 Horsepower ----- 1/2
 Voltage ----- 115/230
 Phase ----- single
 Cycle ----- 60
 Amperage ----- 8-4
 Current----- alternating
 Revolutions per minute ----- 1750
 Frame -----H16B
 Type -----repulsion start, induction run

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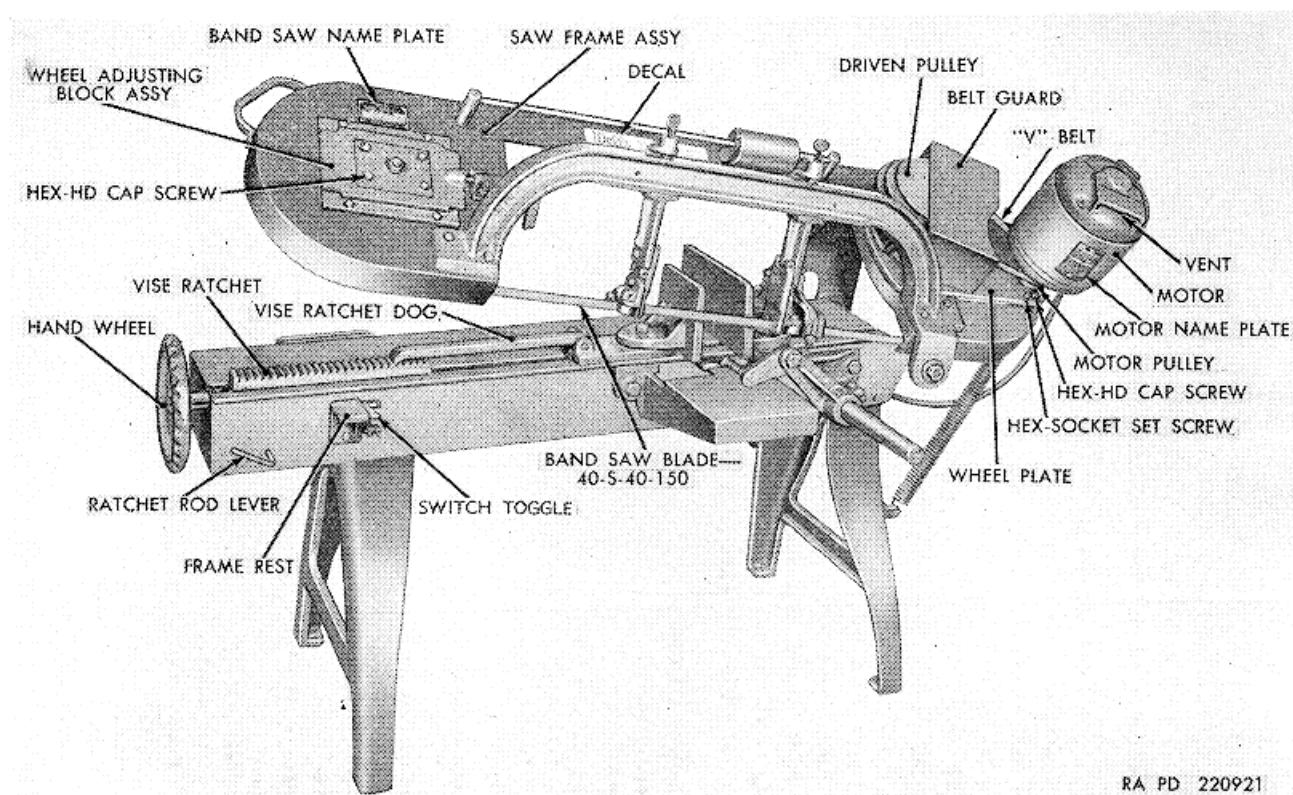


Figure 1. Bandsaw - front view.