

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS UST)**

FOR

**MILLING MACHINE
MODEL NO. 4
(BURKE DIVISION POWERMATIC/HOUDAILLE, INC.)
(NSN 3417-00-357-1948)**

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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Technical Manual

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DEPARTMENT OF THE ARMY
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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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 direct 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 milling machine is issued.

Manufactured by: Burke Division Powermatic/Houdaille, Inc.
38 Brotherton Road
Cincinnati, OH 45227

Procured under Contract No. DAAA09-78-C-5160

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 BY 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 - 80339
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model No. 4
- 5 - Manufacturer's Serial Number (End Item)
- 6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 - If 00 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 - 80339 followed by a colon and manufacturer's Part Number for the repair part.

- (b) Complete Remarks field as follows:

Noun: (nomenclature of repair part)
 For: NSN: 3417-00-357-1948
 Manufacturer: Burke Division Powermatic/Houdaille, Inc.
 38 Brotherton Road
 Cincinnati, OH 45227

Model: No. 4

Serial: (of end item)

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

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SETTING UP THE MACHINE

The #4 Milling Machine is an accurate machine tool. It should be carefully handled at all times.

The most satisfactory manner of moving the machine after it has been uncrated is to fasten ropes under both the front and rear of the overarm, and gently lift it with a crane. Extreme caution should be used to avoid jarring, dropping, or nicking any of the surfaces.

For optimum results be sure that the machine is leveled and rigidly secured.

Before operating, remove the protective shipping sludge with clear gasoline; oil the bearing surfaces and lead screws. If available, it is suggested that the excess gasoline be blown off with compressed air. Be sure to clean all particles of dirt from inside the spindle opening, and use equal care in cleaning the tapered shank of the drive arbor.

LUBRICATING INSTRUCTIONS

Machine:

The spindle of the #4 Milling Machine is equipped with grease-lubricated roller bearings. The proper amount of lubricant has been applied at the factory. Every month, or after approximately 150 hours of operation, additional grease should be added. Use-grease similar to Lubriplate #310.

Each time the spindle is lubricated add a small amount of the same grease to the gear box.

All moving parts, including lead screws, shafts, and the knee, saddle, and table ways should be oiled after each day's operation. Any good grade of lubricating oil may be used for this purpose.

Motor:

Ball bearing gearhead motors provided with these Milling Machines are lubricated at the factory. Every 1000 hours of operation, (usually six months), additional lubricant should be added. Use any good grade of ball bearing grease, but do not over-lubricate.