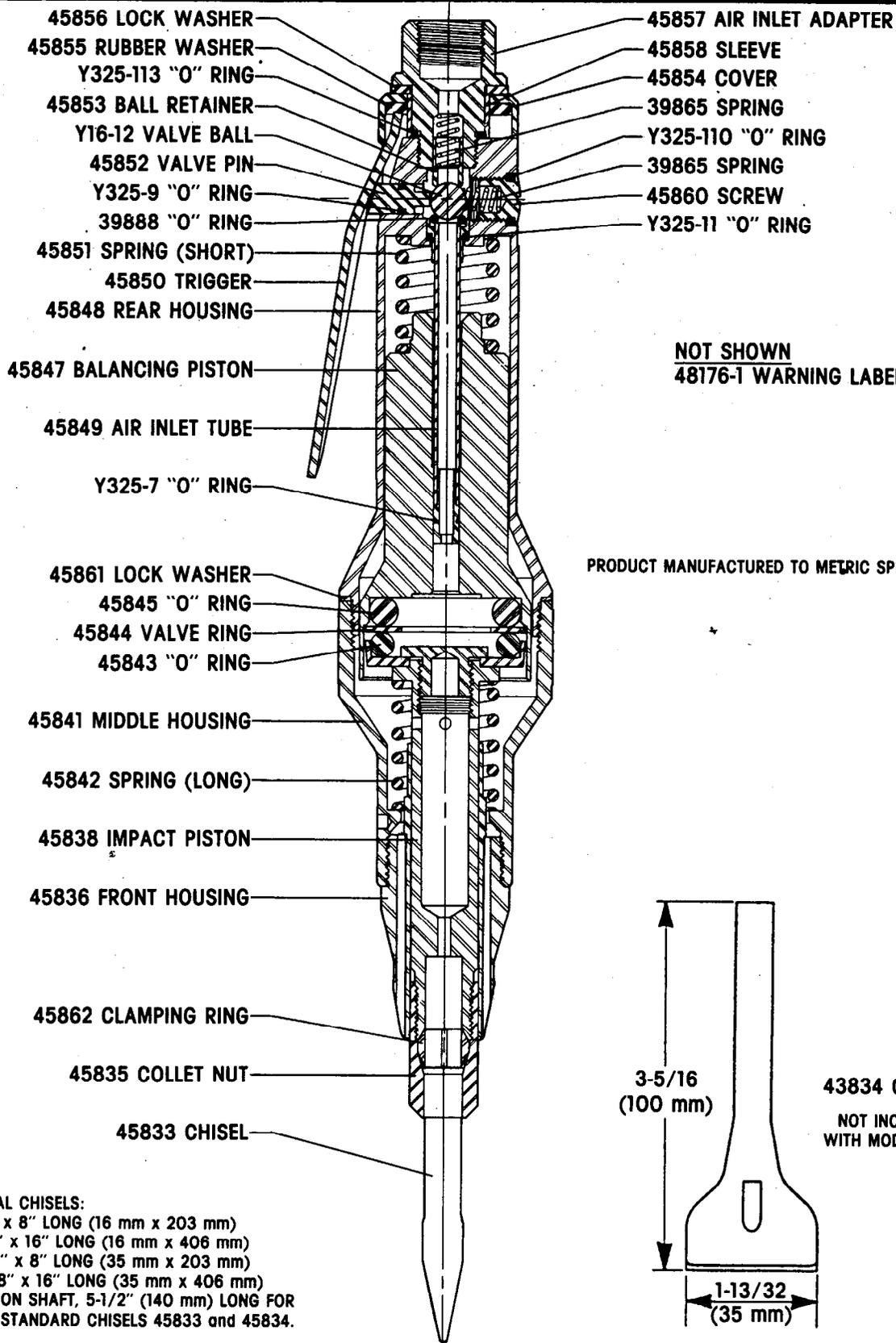


PARTS LIST

SCALING HAMMER
MODEL 8316

FORM 1507-2

REV. 9-30-91



NOT SHOWN
48176-1 WARNING LABEL

PRODUCT MANUFACTURED TO METRIC SPECIFICATIONS

43834 CHISEL
NOT INCLUDED
WITH MODEL 8316

OTHER OPTIONAL CHISELS:

- 45833-8, 5/8" x 8" LONG (16 mm x 203 mm)
- 45833-16, 5/8" x 16" LONG (16 mm x 406 mm)
- 45834-8, 1-3/8" x 8" LONG (35 mm x 203 mm)
- 45834-16, 1-3/8" x 16" LONG (35 mm x 406 mm)
- 45906 EXTENSION SHAFT, 5-1/2" (140 mm) LONG FOR USE WITH STANDARD CHISELS 45833 and 45834.

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GENERAL DESCRIPTION AND OPERATION

The ARO MODEL 8316 SCALING HAMMER is designed for use in the steel fabrication industry for the removal of weld slag and scale. It's unique vibration-free design greatly reduces operator fatigue compared to the more conventional style scaling hammers. Also, the noise level has been greatly reduced. The primary exhaust air is directed out through the chisel providing a good cleaning action as scale or

slag is being removed.

The Model 8316 features a lever style throttle and several different chisel configurations are available as extra-cost options. The air inlet adapter has a 3/8" pipe thread for attaching air hose or quick disconnect type connector.

OPERATING PRECAUTIONS

WARNING: Repeated prolonged operator exposure to vibrations which may be generated in the use of certain hand-held tools may produce Raynaud's phenomenon, commonly referred to as Whitefinger disease. The phenomenon produces numbness and burning sensations in the hand and may cause circulation and nerve damage as well as tissue necrosis. Repetitive users of hand-held tools who experience vibrations should closely monitor duration of use and their physical condition.

AIR AND LUBE REQUIREMENTS

AIR PRESSURE of 90 P.S.I.G. (6 bar) at the air inlet of the tool is required for maximum efficiency. If necessary, an air regulator should be installed to maintain a more precise C.P.M.

FILTERED AND OILED AIR will allow the tool to operate more efficiently and yield a longer life to operating parts and mechanisms. A line filter capable of filtering particles larger than 50 microns should be used with a line oiler.

FILTER-REGULATOR-LUBRICATOR (F-R-L) assembly Model 128231-300 is recommended for use with this air tool. The capacity of the individual filter is adequate to provide clean (40 micron) oiled and regulated air for the tool.

LUBRICATE DAILY with a small amount of spindle oil in air inlet of tool if a line lubricator is not used.

FLUSH TOOL with a solution of three parts cleaning solvent and one part light oil after each 40 hours of operation. After flushing, apply a small amount of spindle oil in air inlet and run free for one minute to insure proper lubrication.

RECOMMENDED HOSE SIZE: 1/4" (6 mm) nominal inside diameter.

RECOMMENDED LUBRICANTS: Spindle Oil 29665, 1 qt. (.9 liter) container for oiler and air inlet; "O" Ring Lubricant 36460, 4 oz. (113 g) tube for lubrication and installation of "O" rings.

MAINTENANCE

AIR TOOLS are made of precision parts and should be handled with reasonable care when servicing. Excessive pressure exerted by a holding device may cause distortion of a part. Apply pressure evenly when disassembling (or assembling) parts which have a press fit. It is important that the correct tools and fixtures are used when servicing this air tool.

DISASSEMBLY should be done on a clean work bench with a clean cloth spread to prevent the loss of small parts. After disassembly is completed; all parts should be thoroughly washed in a clean solvent, blown dry with air and inspected for wear levels, abuse and contami-

nation.

BEFORE REASSEMBLING, lubricate parts where required. Use 36460 Lubricant for "O" ring assembly. When assembling "O" rings or parts adjacent "O" rings, care must be exercised to prevent damage to the sealing surfaces.

WHEN ORDERING PARTS, be sure to list PART NUMBER, PART NAME, and MODEL NUMBER OF TOOL. USE ONLY GENUINE ARO® REPLACEMENT PARTS.

DISASSEMBLY AND REASSEMBLY

DISCONNECT AIR SUPPLY from tool or shut off air supply and exhaust (drain) line of compressed air BEFORE changing chisel or otherwise performing service or maintenance to tool.

SPECIAL NOTICE: WHEN REMOVING A CHISEL FROM COLLET, SECURE TOOL BY USING A WRENCH ON FLATS OF FRONT HOUSING 45836. LOOSEN COLLET USING A WRENCH ON COLLET NUT 45835. KEEP CLAMPING RING 45862, COLLET NUT 45835 AND I.D. OF IMPACT PISTON 45838 FREE FROM DIRT AND GREASE BUILD-UP TO INSURE CLAMPING RING PROPERLY GRIPS CHISEL SHANK. CHISEL SHANK SHOULD BOTTOM INTO IMPACT PISTON.

TO REMOVE IMPACT PISTON (45838) AND/OR COMPONENTS – remove collet nut (45835) with clamping ring (45862) and chisel from tool. Unthread and separate housing (45841) from housing (45848). Note: it may be necessary to tap threaded joint lightly with a rubber mallet to loosen. Valve ring (45844) is a loose part and may drop out. "O" rings (45843) and (45845), impact piston (45838), spring (45842), balancing piston (45847) and spring (45851) are now accessible and can be removed. **TO REASSEMBLE:** reverse the disassembly procedure. Tighten housings (45841) and (45848) securely leaving no play between the lock washer (45861) and the housing sections.

TIGHTEN HOUSINGS 90-100 FT. LBS. TORQUE. It is recommended that non-hardening type thread adhesive be used on threads when reassembling housing (45848) to housing (45841).

REPLACING FRONT HOUSING – Front housing (45836) and middle housing (45841) are bonded together with a hard drying thread adhesive at assembly. To separate these housings it will be necessary to first heat the thread area to soften the thread adhesive.

When reassembling the housings use a good grade of thread adhesive. Use care so as not to allow excess thread adhesive to contaminate impact piston (45838) or block the air channels. After tightening the housings blow away any excess thread cement and allow cement to dry before operating tool.

TO REMOVE THROTTLE VALVE COMPONENTS – unthread and remove air inlet adapter (45857). Ball retainer (45853), spring (39865), cover (45854), rubber washer (45855), lock washer (45856) and "O" ring (Y325-113) are now accessible and can be removed. To remove balance of valve parts; unthread and remove screw (45860), releasing spring (39865) and ball (Y16-12). Valve pin (45852) with "O" ring (Y325-9) can now be removed if desired. To remove air inlet tube (45849), separate housings (45841) and (45848) as outlined above. Remove balancing piston (45847) and spring (45851) and push air inlet tube out through air inlet of housing. "O" ring (39888) is now accessible. **TO REASSEMBLE:** reverse the disassembly procedure. **NOTE:** it is recommended that any time a part has been removed that contains an "O" ring, the "O" ring be replaced with a new one. Lubricate "O" rings with "O" ring lubricant when assembling. Insure sleeve (45858) is assembled with the chamfered end facing "O" ring (Y325-113).