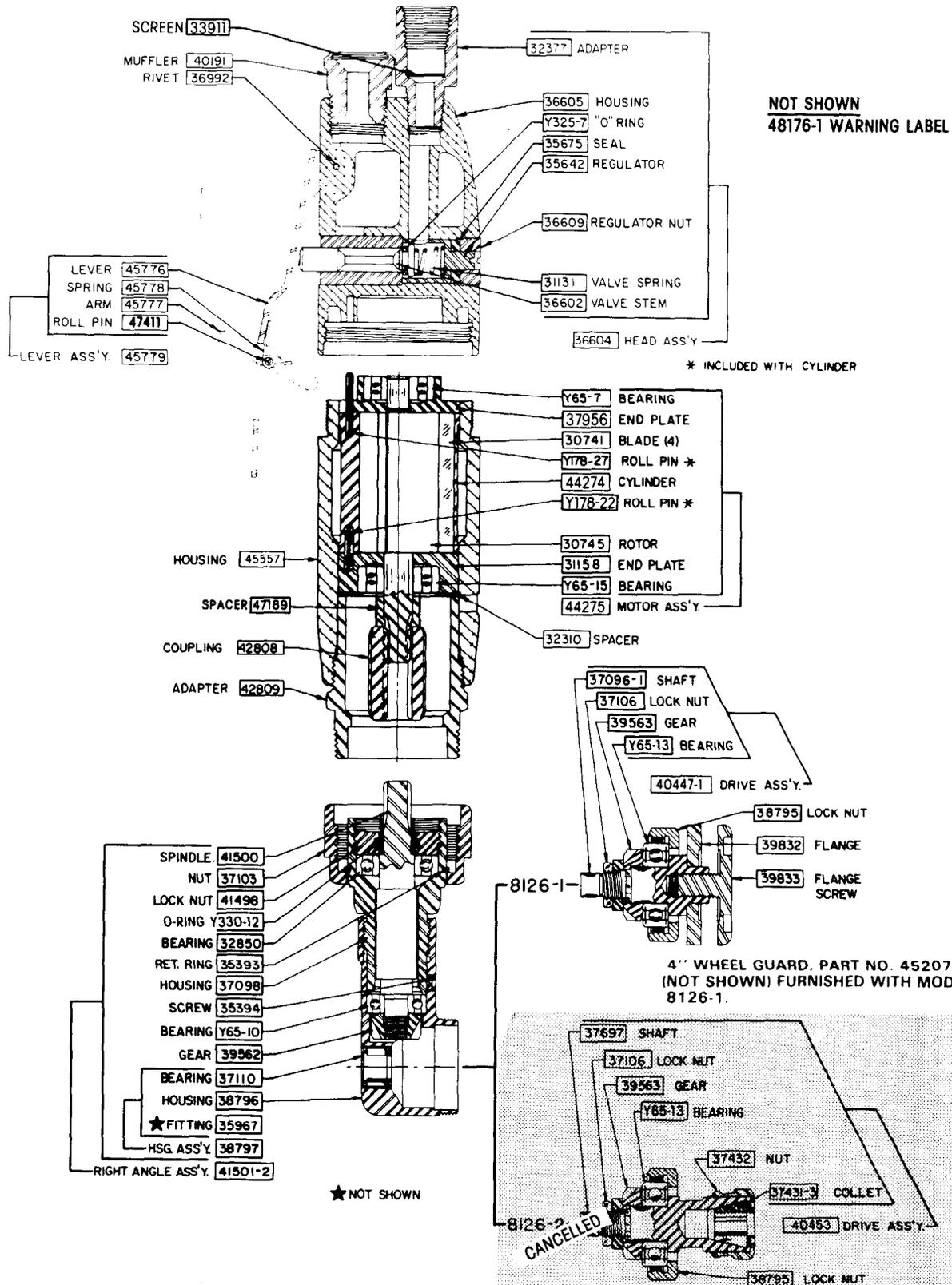


SALES AND ENGINEERING DATA

**"O" SERIES R/A GRINDER
MODELS 8126-1 AND 8126-2
12,000 R.P.M. LEVER THROTTLE 1.4:1 RED.**

FORM: 5436

DATE: 10-20-95



For parts and service information, contact your local ARO distributor, or the Customer Service Dept. of the Ingersoll-Rand Distribution Center, White House, TN at PH: (615) 672-0321, FAX: (615) 672-0801.

ARO Tool Products

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OPERATING PRECAUTIONS

SPECIAL NOTE: This tool has been designed for use with 3" and 4" diameter thin type cut-off wheels and for applications where the area in which the tool is being used provides adequate protection for the operator without the use of a guard on the tool. Whenever the tool is used in other type applications, a guard must be used on the tool to provide operator protection. Guard (45207) is available for use with this tool. Care must be taken that a grinding wheel of the proper rating is used. Regardless of the rated capacity and speed of any ARO grinder, abrasive wheels should never be operated at a speed greater than that recommended by the wheel manufacturer and marked upon the grinding wheel.

To aid in a better understanding of proper grinding wheel use, the publication, "Use, Care and Protection of Abrasive Wheels", A.N.S.I. B7.1, can be purchased from the American National Standards Institute, Inc., 1430 Broadway, N.Y., N.Y., 10018. Also, the publication "Safety Code for Portable Air Tools", A.N.S.I. B186.1, can be purchased from either A.N.S.I. or the Compressed Air and Gas Institute, 1230 Keith Building, Cleveland, Ohio, 44115.

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. (6.2 bar) at the air inlet of the tool is required for maximum motor efficiency. If necessary, an air regulator should be installed to maintain this pressure when the tool is in operation.

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 C28231-810 is recommended for use with this air tool. The capacity of this F-R-L is adequate to provide clean (40 micron) oiled and regulated air for the tool.

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 - 3/8" (10 mm) nominal inside diameter.

RECOMMENDED LUBRICANTS: Spindle oil 29665, 1 qt. (.9 liter) container for oiler and air inlet; Grease 33153, 5 lb (2.3 kg) can for gears and bearings; "O" ring lube 36460, 4 oz. (113 g) tube for lubrication and installation of "O" rings.

MAINTENANCE

Disconnect air supply from tool or shut off air supply line to tool and exhaust (drain) air line to tool of compressed air before performing service or maintenance to tool.

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. When removing or installing bearings, apply pressure to the bearing race that will be the press fit to the mating part; if this is not practiced, Brinelling of the bearing races may occur, making replacement necessary. 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 contamination. Double sealed or shielded bearings should never be placed in solvent unless a good method of relubricating the bearing is available. Open bearings may be washed but should not be allowed to spin while being blown dry. When replacement parts are necessary, consult drawing containing the part for identification.

Before assembling, lubricate parts where required. Use ARO 33153 grease in bearings. Use ARO 36460 lubricant for "O" ring assembly. When assembling "O" rings, care must be exercised to prevent damage to the rubber sealing surfaces. A small amount of grease will usually hold steel balls and other small parts in place while assembling.

When ordering parts, be sure to list part number, part name, model number and serial number of the tool. Use only genuine ARO® replacement parts.

DISASSEMBLY AND ASSEMBLY OF TOOLS

DISASSEMBLY

RIGHT ANGLE - Place tool in a suitable holding device, loosen nut (37103) completely (left hand threads) and remove right angle assembly from the tool. Loosen nut (38795) completely and remove drive assembly. To disassemble drive assembly, remove nut (37106). Remove lock nut (41498) (left hand threads). Loosen set screw (35394) and unthread housing (38797) (left hand threads). Tap splined end of spindle (41500) with a soft face hammer to remove housing. Unthread gear (39562) to remove bearing.

MOTOR - Using a strap type wrench, unthread motor housing from head and remove motor from housing. Grasp cylinder in one hand and tap splined end of rotor with a soft face hammer; motor will come apart.

HEAD - Remove regulator nut (36609) to remove valve components from head.

ASSEMBLY

HEAD - Assemble valve stem (36602), with "O" ring (Y325-7), spring (31131), regulator (35642) and seal (35675), into valve opening and secure with nut (36609). NOTE: Align hole in side of regulator with air inlet of head when assembling.

MOTOR - Pack bearings with ARO 33153 grease and assemble to end plates, pressing on outer race of bearings. Assemble end plate (37956) to rotor, pressing on inner race of bearing. Coat i.d. of cylinder with ARO 29665 spindle oil and assemble over rotor, aligning roll pin (Y178-27) with hole in end plate. Coat blades with ARO 29665 spindle oil and assemble to rotor and assemble end plate (31158) to rotor, aligning roll pin (Y178-22) with hole in end plate. NOTE: Press on inner race of bearing. Be sure rotor does not bind (if rotor binds, tap splined end lightly with a soft face hammer). Place head assembly in a suitable holding device, with the "motor end" in an upright position. Place motor assembly on head, aligning roll pin (Y178-27) of motor with .106" diameter blind hole in head. Slip motor housing over motor and secure to head. Assemble spacer (32310), coupler (42808) and adapter (42809) to tool. Assemble right angle attachment to tool.

RIGHT ANGLE - Pack bearings and lubricate gears liberally with ARO 33153 grease before assembly. Assemble bearing (Y65-10) and gear to spindle (41500) and assemble to housing. Assemble bearing (32850) to spindle and housing and secure with "O" ring and lock nut (41498). Assemble housing (38797) to housing (37098) and secure with screw (35394).