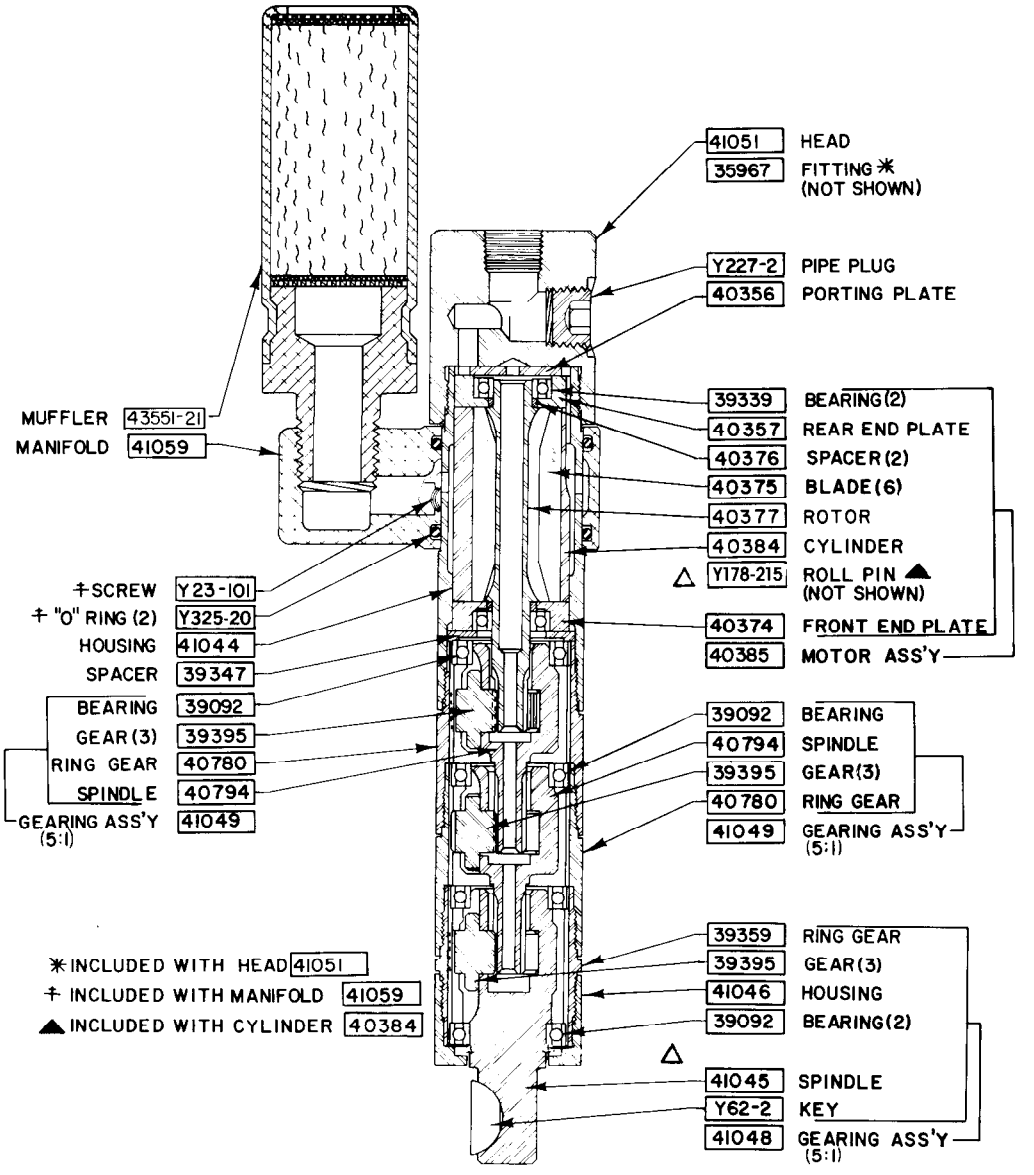
SALES AND ENGINEERING DATA

"OOOO" SERIES POWER MOTOR
MODEL 8609
200 R.P.M.
125:1 TOTAL RED. 3/8" KEYED SPINDLE

FORM 1547-2

DATE REV. 2/88 △



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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 motor efficiency. If necessary, an air regulator should be installed to maintain this pressure when 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 128231-800 is recommended for use with this Air Tool. The capacity of the individual Filter-Lubricator is adequate to provide clean (40 micron) oiled and regulated air for the tool. The Filter-Regulator-Lubricator must be installed on the stationary air line, in that order, with the Lubricator nearest to the tool. NEVER mount the unit on the detachable flexible hose to 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.

GEARING should be grease lubricated approximately every 160 hours of operation.

CAUTION: An excessive amount of lubricant in a tool will affect the speed and power. Each set of planetary gearing should contain approximately 1/16 oz. (1.8 g) of grease.

RECOMMENDED HOSE SIZE — 5/16" (8 mm) nominal inside diameter.

IF LINE OILER is not used and tool does not have a built-in oiler, apply a small amount of Spindle Oil in air inlet of tool and run free for one minute to insure proper lubrication; after each 8 hours of operation.

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 Lubricant 36460, 4 oz. (113 g) tube for lubrication and installation of "O" Rings,

MAINTENANCE

DISCONNECT AIR SUPPLY from tool or shut off air supply and exhaust (drain) line of compressed air BEFORE performing maintenance or service 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 re-lubricating 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 REASSEMBLING, lubricate parts where required. Use 33153 Grease, or equivalent in bearings. Use 36460 Lubricant for "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 tool. USE ONLY GENUINE ARO REPLACEMENT PARTS.

DISASSEMBLY AND REASSEMBLY OF TOOL

DISASSEMBLY

GEARING (41048) – Remove accessory and key (Y62-2) from Spindle. Using a wrench on flats of Nose Housing (41046), unthread and remove. Using wrenches on flats of Ring Gears, unthread and remove Gearing Ass'y. (41048). Remove Spindle and components from Ring Gear. Gears can now be removed from Spindle. Bearing should not be removed unless being replaced as brinelling of the bearing races may occur making replacement necessary. Disassembly of Gearing Assembly (41049) will be similar to that of Gearing (41048).

MOTOR – Remove Gearing from tool and remove Motor Ass'y. from housing. Grasp Cylinder in one hand and tap splined end of Rotor with a non-metallic hammer; motor will come apart.
To remove Manifold (41059); remove Head (41051), loosen Set Screw (Y23-101) completely and slip Manifold off housing.

REASSEMBLY

MOTOR – Pack bearings with 33153 grease and coat I.D. of Cylinder with spindle oil. Assemble Bearings into End Plates and assemble End Plate (40357) with Spacer (40376) to Rotor. Assemble Cylinder over Rotor aligning Roll Pin (Y178-215) with hole in End Plate and assemble Blades to Rotor. Assemble End Plate (40374) with Spacer (40376) to Rotor and Cylinder. Insure motor does not bind (if rotor binds, tap splined end lightly to loosen). Assemble Porting Plate (40356) to motor aligning hole in plate with Roll Pin (Y178-215). Remove Head (41051) from Motor Housing and place Head in a suitable holding device with the "motor end" in an upright position. Place motor on head aligning air inlets of motor and head and Roll Pin (Y178-215) with smaller hole in head. Slip Motor Housing, with Manifold attached, over motor and secure to Head. Assemble Spacer (39347) and gearing to tool.

GEARING (41048) – Pack bearings and lubricate gears liberally when assembling. Each gearing assembly should contain approx. 1/16 oz. grease. Assemble Bearings and Gears to Spindle and assemble to Ring Gear. Reassembly of Gearing (41049) will be similar to that of Gearing (41048). Assemble Gearing and Nose Housing (41046) to tool.