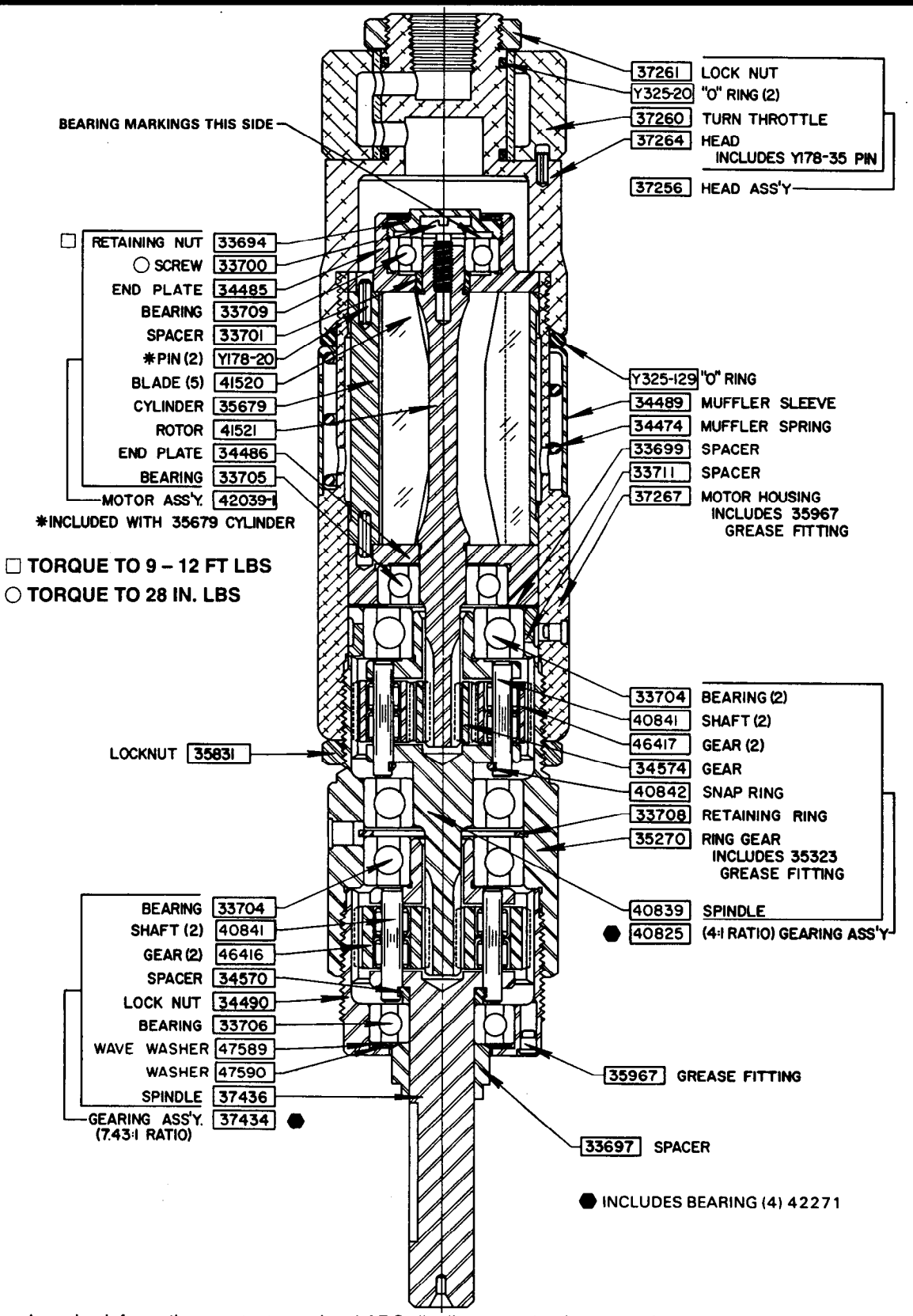
ARO
Tool & Hoist Products

SALES AND ENGINEERING DATA

2200 SERIES POWER UNIT
MODEL 7839–B
650 R.P.M. REVERSE ROTATION

FORM: 1434–2
DATE: 8–9–93



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) 672–0601.

ARO Tool & Hoist Products
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INGERSOLL-RAND®
PROFESSIONAL TOOLS

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 air 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 128231–800 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 – 5/16" (8 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 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 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 press fit to the mating part; if this is not practiced, Brinelling of the bearing races will 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 reassembling, lubricate parts where required. Use 33153 grease, or equivalent, in bearings. Use 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 tool.** Use only genuine ARO® replacement parts

DISASSEMBLY AND ASSEMBLY OF TOOLS

DISASSEMBLY

DRIVE GEARING – Remove gearing assembly from tool. Grasp ring gear in one hand and tap drive end of spindle with a soft face hammer; spindle and components will loosen from ring gear. To remove gears and shafts, rotate spacer (34570) until flat aligns with one shaft (40841), allowing it to be removed. Repeat this procedure for opposite shaft and gear. To remove bearing (33704) from spindle, place shafts into spindle and alternately tap shafts.

AUXILIARY GEARING – Loosen lock nut (35831) and remove gearing from tool. Grasp ring gear in one hand and tap drive end of spindle with a soft face hammer; components will loosen from ring gear. Remove snap ring (40842) allowing removal of shafts and gears. Alternately tap shafts to remove bearing (33704).

MOTOR – The motor assembly may be removed from either end of housing by first removing head or gearing. After removing motor from housing, remove nut (33694) and sems fastener (33700). Grasp cylinder in one hand and tap drive end of rotor with a soft face hammer; motor will come apart.

HEAD ASSEMBLY – Remove lock nut (37261), throttle will loosen from head.

ASSEMBLY

HEAD ASSEMBLY – Assemble "O" rings (Y325–20) to head. Assemble throttle (37260) to head, aligning slot in throttle with pin in head. Secure with lock nut (37261)

MOTOR – Assemble bearings into end plates. Assemble rear end plate (34485), with spacer (33701), to rotor and secure with sems fastener. NOTE: Torque fastener to 28 in. lbs. Assemble nut (33694) to end plate. NOTE: Torque nut to 9 – 12 ft lbs. Assemble cylinder to rear end plate and assemble blades to rotor. Assemble front end plate to cylinder and rotor. Make sure motor does not bind and assemble, with spacer (33699), to housing.

AUXILIARY GEARING – Assemble gear (46417) to spindle, securing with shaft. Assemble sun gear (34574) to spindle, securing with gear (46417) and shaft. Assemble snap ring to spindle. Assemble bearings (33704) to spindle. Assemble retaining ring (33708) to ring gear. Assemble lock nut (35831) to ring gear and assemble gearing to tool.

DRIVE GEARING – Assemble spacer (34570) to spindle and rotate flat until it aligns with one hole in spindle, allowing for installation of shaft and assemble gear and shaft to spindle. Repeat for opposite shaft and gear. Turn spacer 1/4 turn to lock shafts in place. Assemble bearings (33704 and 33706) to spindle. Assemble washer (47590) and wave washer (47589) to ring gear and assemble spindle and components to ring gear. Assemble gearing to tool.