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# SALES AND ENGINEERING DATA

## MODEL 7114-E GRINDER

### LEVER THROTTLE

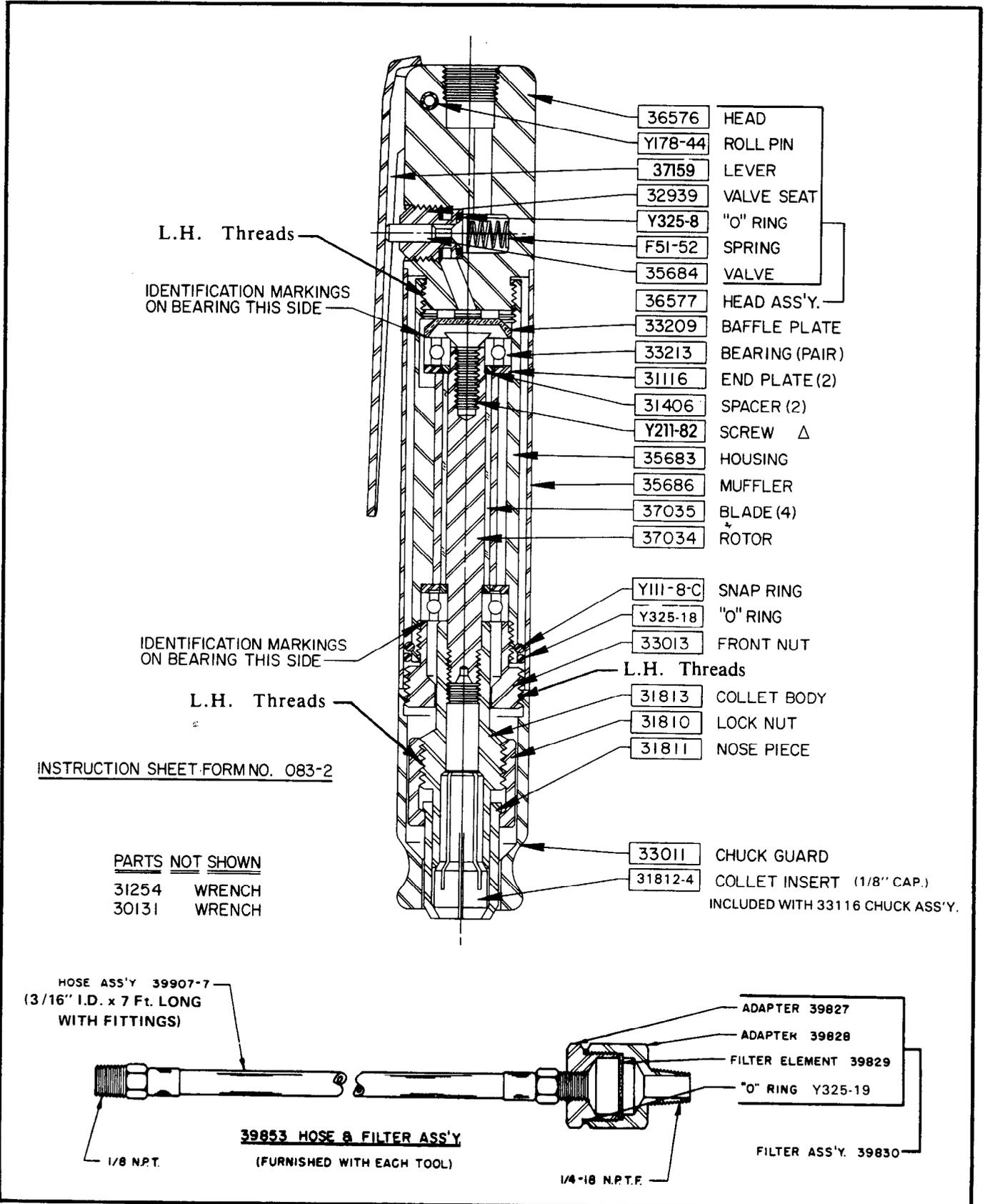
### 20,000 R.P.M.

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## 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 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 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 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 contami-

nation.

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 REASSEMBLY OF TOOLS

### DISASSEMBLY

- Place head of tool in a suitable holding device locating on flats of head. Remove chuck guard (33011) – L.H. Threads. Remove collet body (31813).
- Using a wrench on flats of nut (33013), unscrew and remove – L.H. Threads. Remove muffler (35686) and "O" ring (Y325-18).
- Using a strap wrench on housing (35683), unscrew and remove from head (36576) – L.H. Threads.
- Remove baffle plate (33209) and screw (Y211-82) and press rotor (37034) out opposite end of housing.
- Remove roll pin (Y178-44), releasing lever (37159). Remove valve seat (32939) releasing valve (35684) and components.

### ASSEMBLY

- Assemble spring (F51-52), valve (35684) and valve seat (32939) with "O" ring (Y325-8) to head. Assemble lever (37159) to head and secure with roll pin (Y178-44).
- Assemble spacer (31406), end plate (31116) and bearing (33213) to threaded end of rotor and assemble blades (37035) to rotor. Assemble rotor into housing and assemble other spacer (31406), end plate (31116) and bearing (33213) to rotor and secure with screw (Y211-82). Assemble baffle plate (33209) into housing and assemble housing to head.
- Assemble "O" ring (Y325-18) over end of housing (35683) and assemble muffler (35686) over housing to head.
- Assemble nut (33013) – L.H. Threads, collet body (31813) and components and chuck guard (33011) – L.H. Threads – to tool.