



⚠ WARNING
**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
 OPERATING OR SERVICING THIS EQUIPMENT.**

FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.

Pneumatic tools should always be installed and used in accordance with A.N.S.I. B186.1 "Safety Code for Portable Air Tools".

⚠ WARNING

- Operate this tool at 90 p.s.i.g. (6.2 bar) maximum air pressure at the air inlet of the tool.
- Disconnect air supply from tool before removing/installing bit, socket or performing other maintenance procedures.
- Keep hands, clothing and long hair away from rotating end of tool.
- Anticipate and be alert for sudden changes in motion during start up and operation of any power tool.
- Never exceed rated r.p.m. of tool.
- Wear suitable eye and hearing protection while operating tool.
- Tool shaft can continue to rotate briefly after throttle is released.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Do not remove any labels. Replace any damaged label.
- Use only accessories recommended by ARO.

⚠ 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.

NOTICE

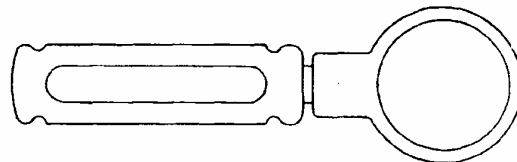
- The use of other than genuine Elliott replacement parts may result in safety hazards, decreased tool performance and increased maintenance and may invalidate all warranties.
- Elliott is not responsible for customer modification of tools for applications on which Elliott was not consulted.
- Tool maintenance and repair should be performed by authorized, trained, competent personnel. Consult your nearest Elliott authorized servicer.
- It is the responsibility of the employer to place the information in this manual into the hands of the operator.

DIMENSIONAL DATA

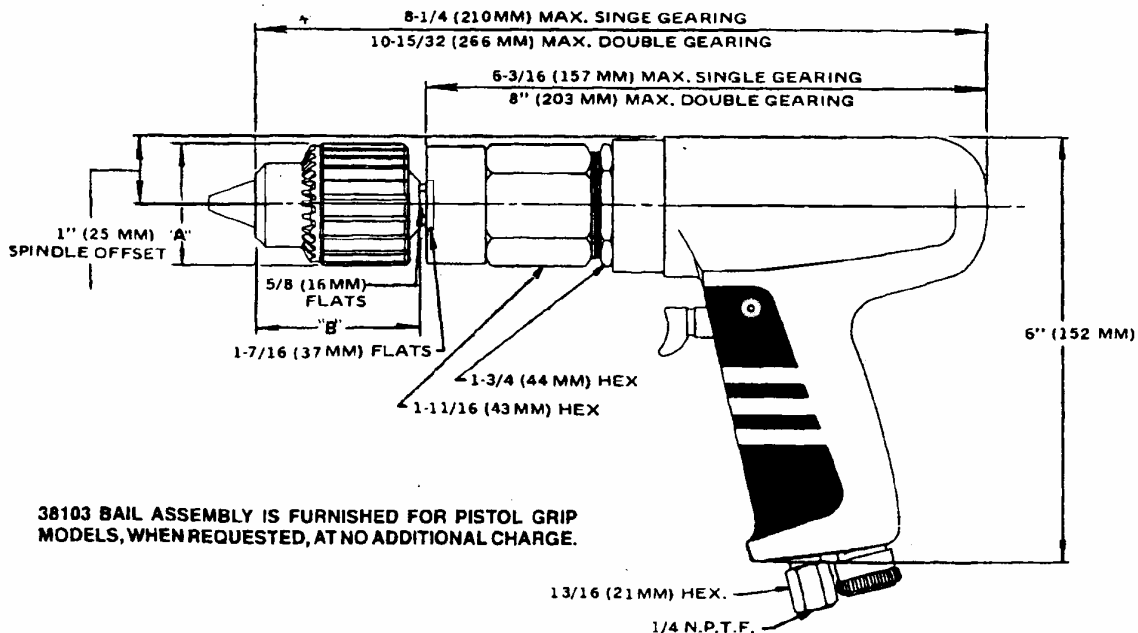
CHUCK NUMBER	CHUCK CAPACITY	"A"		"B"	
		INCHES	MM	INCHES	MM
33807	3/8"	1-7/16	36	1-29/32	48
30018	3/8"	1-13/16	46	2-5/16	59

CHUCKS LISTED IN CHART ARE FURNISHED AS STANDARD EQUIPMENT ON MODELS AS INDICATED - FOR OTHER CHUCK SIZES, SEE ACCESSORIES SECTION OF THIS MANUAL.

ALL MODELS HAVE 1/2" - 20 THREADED SPINDLE.



37085 AUXILIARY HANDLE IS FURNISHED ON ALL MODELS HAVING SPEEDS OF 325 AND 600 R.P.M. - SEE ACCESSORIES SECTION FOR PARTS BREAKDOWN.



38103 BAIL ASSEMBLY IS FURNISHED FOR PISTOL GRIP MODELS, WHEN REQUESTED, AT NO ADDITIONAL CHARGE.

GEARING SECTION DRIVE GEARING

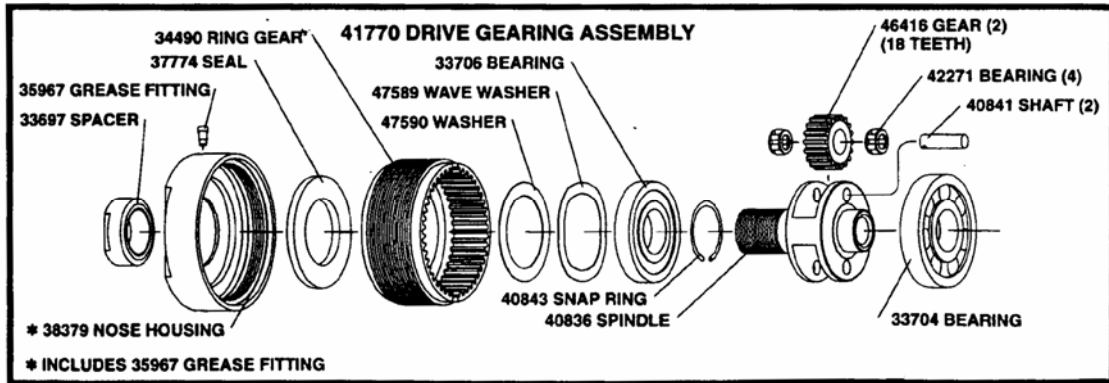
DISASSEMBLY

Remove nose housing (38379), seal (37774) and spacer (33697). Grasp ring gear in one hand and tap threaded end of spindle with a soft face hammer; spindle and components will loosen from ring gear. NOTE: Further disassembly should be done only if it should be necessary to replace a part, as Brinelling of the bearing races may occur, making replacement necessary. To disassemble completely, remove bearing (33706). Turn snap ring on spindle so the open portion of the ring will allow the removal of shaft. Remove shaft, releasing gear. Repeat for removal of opposite shaft and gear.

ASSEMBLY

NOTE: Pack bearings and lubricate gears and shafts with ARO 33153 grease, or equivalent, upon assembly. Gearing assembly should contain approximately 1/4 oz. grease.

Assemble snap ring to spindle. Rotate snap ring, allowing installation of shafts. After both gears and shafts have been assembled to spindle, rotate snap ring, locking shafts in place. Assemble bearing (33706) to spindle and assemble into ring gear (34490) with washer (47590) and wave washer (47589). Assemble seal, nose housing and spacer (33697) to gearing. Pack bearing (33704) with ARO 33153 grease and assemble, with spindle, to tool.



MOTOR SECTION

DISASSEMBLY

Remove motor assembly from housing. Using a spanner type wrench, remove nut (33694) and fastener (33700). Grasp cylinder in one hand and tap splined end of rotor with a soft face hammer; motor will come apart.

ASSEMBLY

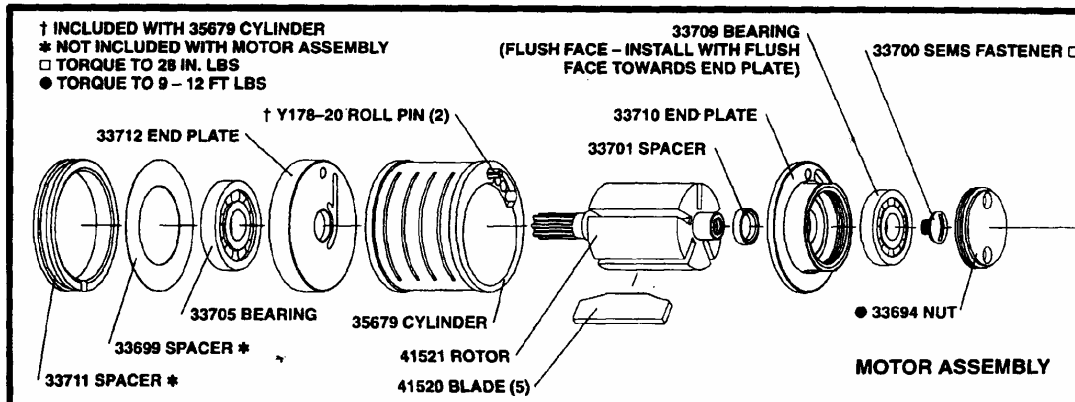
NOTE: Pack bearings with ARO 33153 grease, or equivalent, and coat i.d. of cylinder with ARO 29665 spindle oil upon assembly.

Assemble bearings into end plates, pressing on outer race of bearings. NOTE: Assemble bearing (33709) into end plate with the identification markings on the bearing facing "out". Assemble end plate (33710) to rotor and secure with sems fastener. NOTE: Torque fastener to 28 in. lbs. Assemble cylinder over rotor, aligning air inlet holes in cylinder with air inlet slot of end plate and as-

semble roll pin in hole of end plate. Assemble blades to rotor. Assemble end plate (33712) to rotor and cylinder, aligning hole in end plate with roll pin in cylinder. Assemble nut (33694) to end plate and torque to 9 - 12 ft lbs. Insure rotor does not bind (if rotor binds, lightly tap splined end of rotor with a soft face hammer to loosen) and assemble to tool.

ASSEMBLING MOTOR TO TOOL

LEVER THROTTLE MODELS: Remove motor housing (37082) from head. Place head in a suitable holding device with the "motor end" in an upright position. Assemble motor assembly to head, aligning roll pin in motor with hole provided in head (.125" diameter blind hole). Slip motor housing over motor and secure to head. Assemble spacers (33699 and 33711) and gearing to tool.



GEARING SECTION AUXILIARY GEARING

DISASSEMBLY

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.

Gearing should not be disassembled further unless it is necessary to replace a part, as Brinelling of the bearing races may occur, making replacement necessary.

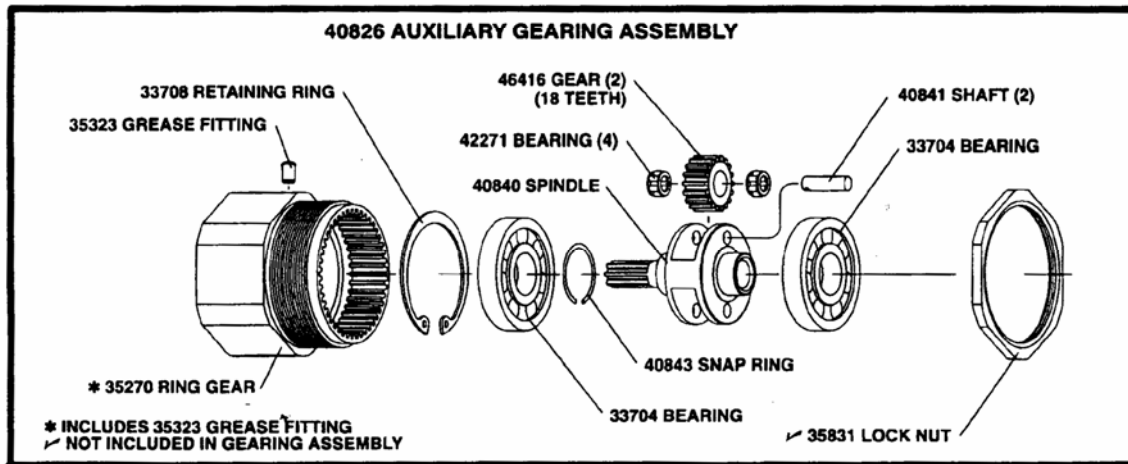
To further disassemble, remove bearing (33704), rotate snap ring so the open portion of the ring will allow the removal of shaft. Remove shaft, releasing gear. Repeat for removal of opposite shaft and gear.

ASSEMBLY

To assemble gears and bearings to spindle, reverse the procedure of disassembly. NOTE: After assembling gears and shafts to spindle, rotate snap ring, securing both shafts in place.

Assemble spindle and components to ring gear.

Pack bearings and lubricate gears with ARO 33153 grease upon assembly. Gearing assembly should contain approximately 1/4 oz. (7 g) of grease.



www.elliott-tool.com

Elliott Tool Technologies Ltd • 1760 Tuttle Avenue • Dayton, Ohio 45403 U.S.A.
Phone: +1 800 332 0447 • +1 937 253 6133 • Fax: +1 937 253 9189

Elliott Tool Technologies UK Ltd • Broadstone Hill • Old Chalford • Chipping Norton • OXON • OX7 5QL • England
Phone: +44 (0) 1608 672815 • Fax: +44 (0) 1608 672810