

OPERATOR'S MANUAL

INCLUDING: OPERATION. INSTALLATION & MAINTENANCE BANT-A-MATIC® SELF-FEED DRILLS

Models 8246-D()-()

SECTION M104 MANUAL

Released: Revised: 12-12-94

Form: 3265-2

IMPORTANT: READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT.

OPERATING PRECAUTIONS

- Keep hands and clothing away from rotating end of tool.
- Wear suitable eye protection while operating tool.
- Disconnect air supply from tool before removing/installing bit or performing other maintenance procedures.

ROUTINE LUBRICATION REQUIREMENTS

Lack of or an excessive amount of lubrication will affect the performance and life of this tool. Use only recommended lubricants at below time intervals:

EVERY 8 HOURS OF TOOL OPERATION - Fill lubricator reservoir of recommended F.R.L. with spindle oil (29665).

EVERY 160 HOURS OF TOOL OPERATION - Inject NLGI #1 "EP" grease (33153), 1 to 2 strokes, thru grease fitting in gear housing. NOTE: Spindle must be extended from outer sleeve sufficiently to expose grease fitting in gear housing. Gearing should contain approximately 1/8 oz. (3.5 g) of grease.

AIR SUPPLY REQUIREMENTS

For maximum operating efficiency, the following air supply specifications should be maintained to this air tool:

- AIR PRESSURE 90 PSIG (6 bar)
- AIR FILTRATION 50 micron
- LUBRICATED AIR SUPPLY
- HOSE SIZE 5/16" (8 mm) I.D.

An ARO® model C28231-810 air line FILTER/REGULATOR/LU-BRICATOR (F.R.L.) is recommended to maintain the above air supply specifications.

MOUNTING

The nose end of the outer sleeve (41) is provided with 1-7/16" -18 L.H. threads [remove thread guard (47) for use] and a 1-7/16" x 1/2" long pilot diameter for fixture mounting. Foot and flange type mounting brackets are available for tool mounting.

RECOMMENDED LUBRICANTS

After disassembly is complete, all parts, except sealed or shielded bearings, should be washed with solvent. To relubricate parts, or for routine lubrication, use the following recommended lubricants:

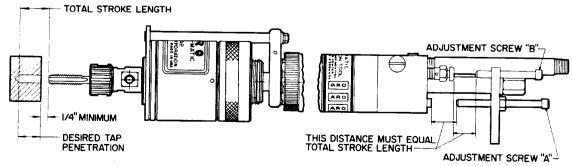
Where Used Air Motor "O" Rings & Lip Seals Gears and Bearings **ARO Part #** 29665 36460 33153

Description 1 qt. Spindle Oil 4 oz. Stringy Lubricant 5 lb. "EP" - NLGI #1 Grease

SET-UP PROCEDURE

WARNING: Keep clear of rotating end of unit with hands and/or clothing. Keep fingers/hands from being pinched between housing or valves and adjustment screws and/or trip bracket.

- Loosen two screws (29) and remove cover (1).
- Allow a minimum distance of 1/4" between the tap point of the unit and the workpiece. This is necessary for the air motor to start and reach free speed before the tap point touches the
- Determine the TOTAL STROKE LENGTH the tap must travel to perform the tapping operation - see illustration below.
- Loosen jam nut (8) and turn adjustment screw "A" so the distance between the end of the screw and the stud (26) equals the total stroke length.
- Tighten jam nut (8).
- Loosen jam nut (8) and turn adjustment screw "B" (valve-inhead models only) so the distance between the end of the screw and the button bleed valve (25) is slightly GREATER than the distance set for adjustment screw "A".
- Start and let the unit advance until the adjustment screw "A" makes contact with the stud (26).
- Carefully, and be aware that the unit is going to retract, turn the adjustment screw "B" until it depresses the button bleed valve (25) enough to cause the unit to retract.
- Tighten jam nut (8)
- See "FEED RATE CONTROL VALVES", page 2.



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 Products

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INGERSOLL-RAND. PROFESSIONAL TOOLS

FEED RATE CONTROL VALVES

- Turn valve (23), marked "R" on top of housing, approximately 1-1/2 turns counterclockwise (open).
- Turn the other valve (23), marked "F" on top of housing, clockwise until closed (do not tighten too snugly).
- Start unit and slowly turn valve (23) marked "F" counterclockwise (open) until the desired forward rate of feed is reached.
- A final adjustment of the rate of return (retract) can be made with the valve (23) marked "R" on housing.

MANUAL OPERATION

- Install button bleed valve (25) in either the "F" port located at top
 of valve housing or the "F" port located at the rear of valve housing.
 NOTE: Unused port must be plugged with pipe plug (24).
- Depress button bleed valve (25) marked "F" on valve housing.
 The unit will start in the forward (advancing) mode and continue
 to feed forward until the adjusting screw "B" has depressed bleed
 valve (25) marked "R" to retract the unit. See set-up procedure.
- A manual emergency retract button bleed valve (25) can be installed in "R" port at top of valve housing if desired. This valve can be used to immediately retract the unit in case of misaligned part or other emergency. Valve not furnished.

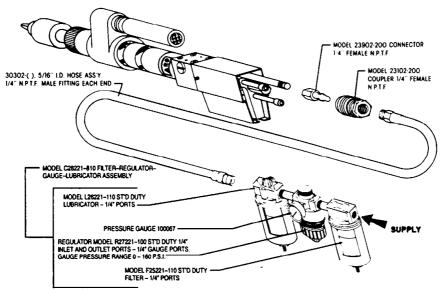
REMOTE OPERATION

- Install a pressure bleed valve ARO part number 9600 in valve port marked "F" at either the top or rear of valve housing.
- Connect pressure bleed valve using 1/8" i.d. tubing to a remote operated valve which, when actuated, feeds air pressure to the pressure bleed valve. Pressure bleed valve will bleed the air from "F" port of valve housing causing spool valve in housing to shift to the forward feed position thus starting the forward stroke of the unit.
- Install a pressure bleed valve —ARO part number 9600— in valve
 port marked "R" at the top of the valve housing and connect —
 using 1/8" i.d. tubing— to a remote MANUALLY operated valve. This
 valve is used as an emergency retract in case of a part misalignment or such only as the unit, when properly set-up and applied,
 will automatically retract and return to the start position. See setup procedure.

Refer to page 3 for plumbing and schematic diagrams.

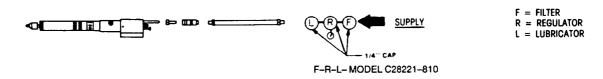
SPECIAL NOTE: The air inlet and remote ports of valve housing have tapered pipe threads and should not require the use of thread sealants, such as sealant tape or pipe joint compounds. Thread sealants, when used improperly, can contaminate air passages and cause valve or unit to malfunction.

RECOMMENDED POWER AIR INLET SYSTEM

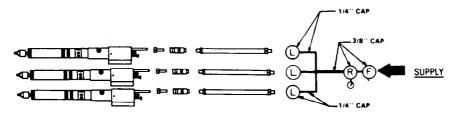


Your ARO Self-Feed tool is designed to deliver specific horsepower and thrust to achieve high rates of work. To assure the unit will develop this power, care must be taken that the power air inlet system is correctly sized to permit the proper rate of air flow. Shown is a system for a single tool that will supply correct delivery. IMPORTANT — the tool is power rated when 90 P.S.I. is present AT THE TOOL DURING OPERATION.

Shown below is the same system in schematic form.



If two or three units are to be installed, each unit should be supplied with a system like that shown below or use system like that above for each tool.

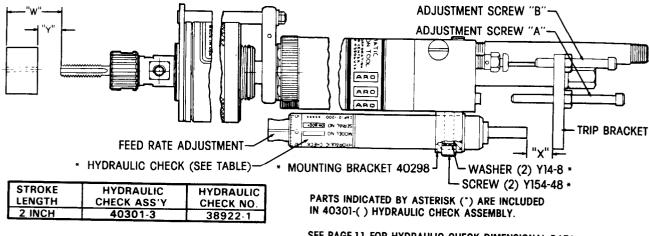


FILTER MODEL F25231–110

REGULATOR MODEL R27231–100

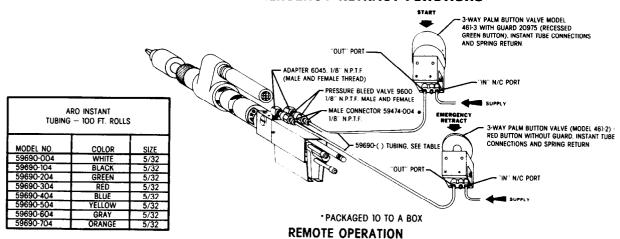
LUBRICATOR MODEL L26221–110

- Assemble hydraulic check to mounting bracket and assemble mounting bracket to tool using washers (Y14-8) and cap screws (Y154-48).
- Measure distance from tap point to work piece distance "Y"
- Distance "X" between hydraulic check plunger and trip bracket must be less than distance "Y" to prevent damage to tap point when it approaches the work piece.
- Loosen the cap screws (Y154-48) and position hydraulic check to obtain correct setting for distance "X".
- Tighten cap screws (Y154-48) securely before operating unit.
- Increase the air flow thru the Feed Control Valve marked "F" by
- opening two (2) full turns from closed position. This will allow tap to advance rapidly until the trip bracket contacts plunger of hydraulic check.
- The Hydraulic Feed Rate Adjustment is located at the nameplate end of the Hydraulic Check. Rotate extended spindle until the slot on the spindle is located midway between the highest and the lowest settings.
- Start tap unit and the tap will advance at a rapid rate until the trip bracket contacts plunger of hydraulic check.
- Slowly rotate the Hydraulic Feed Rate counterclockwise for faster feed rate or clockwise for slower feed rate.



SEE PAGE 11 FOR HYDRAULIC CHECK DIMENSIONAL DATA.

BASIC REMOTE CONTROL FOR START AND EMERGENCY RETRACT FUNCTIONS

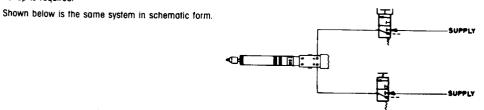


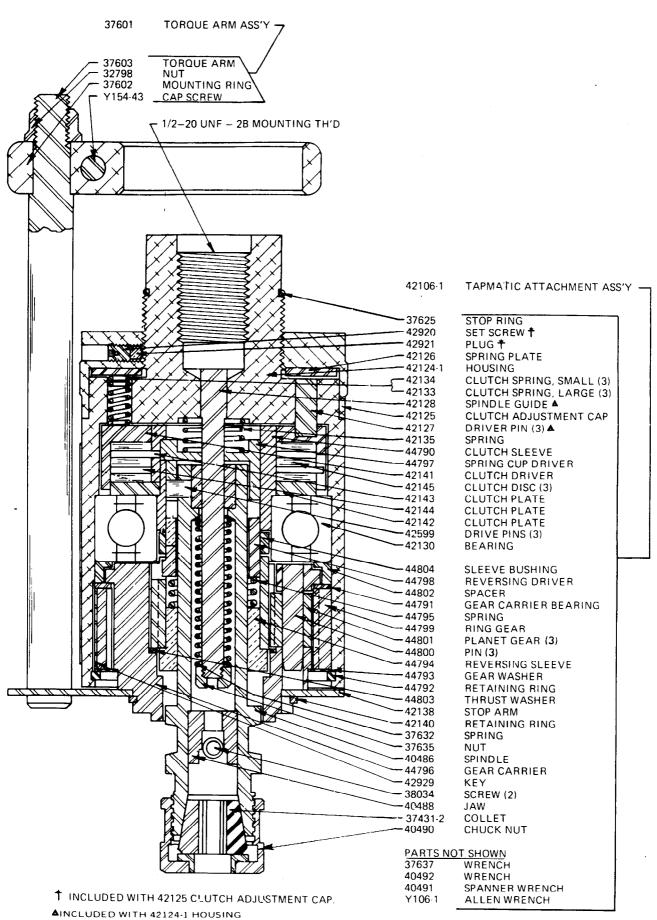
Remote operation of the unit may be achieved by connecting a 3-way valve to the remote start and/or remote retract ports, as shown above.

TO START — depress the remote button momentarily. The unit will advance the drill to a pre-set depth and automatically retract to the initial position whereupon the unit will stop.

EMERGENCY RETRACT — depress the emergency button momentarily. This signal to the unit will shift the built-in pressure operated valve, commanding the unit to retract immediately to the initial position whereupon the unit will stop.

NOTE: MANUAL START and EMERGENCY RETRACT buttons on the tool are fully operational even when remote control is used. The manually operated buttons can be used when set-up is required.





- Never apply excessive pressure by a holding device which may cause distortion of a part.
- Apply pressure evenly to parts which have a press fit.
- Apply even pressure to the bearing race that will be press fitted to the mating part.
- Use correct tools and fixtures when servicing this tool.
- Don't damage "O" rings when servicing tool.
- Use only genuine ARO replacement parts for this tool. When ordering, specify part number, description, tool model number and serial number.

TAPPER DISASSEMBLY

- Remove stop ring (37625).
 Loosen set screw (42920) and remove clutch adjustment cap (42125), releasing spring plate (42126). Clutch springs (42133 and 42134) can now be removed.
 Remove chuck nut (40490), collet (37431-2), screw (38034) and jaw (40488).
 Remove nut (37635), spring (37632), retaining ring (42140) and stop arm (42138).
- _Remove retaining ring (44792) and gear washer (44793).
- _Remove spindle (40486) with reversing sleeve (44794).
- __Remove spacer (44802)
- Remove clutch sleeve (44790), clutch driver (42141), clutch plates (42143, 42144 and 42142) and clutch disc (42145).
- __Remove spring cup driver (44797) and spring (42135)
- __To disassemble spindle components, remove drive pins (42599) and press spindle (40486) out of reversing sleeve (44794).

TAPPER ASSEMBLY

_Tapping units are packed with grease and only need periodic ad-

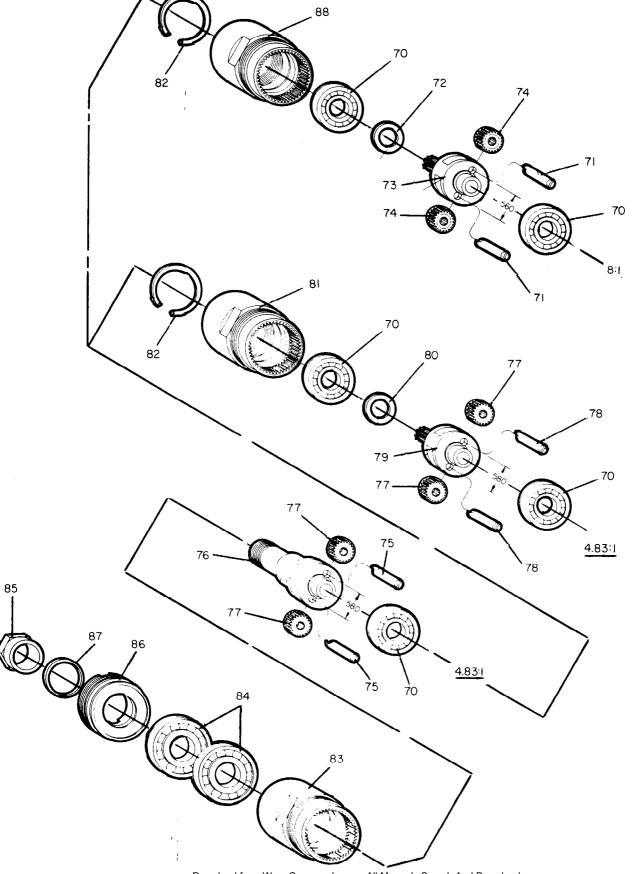
- ditions to maintain proper lubrication. It is suggested that after approximately 600 hours of operation, a small amount (1/4 to 3/4 oz. 7 to 21 g.) of grease 33153 be added. This unit must be disassembled to apply grease. An excessive amount of lubricant will create internal friction and overheating.
- Thoroughly clean and lubricate all parts requiring lubrication. Do not get clutch parts wet or oily.
- —Assemble clutch plate (42142) on clutch sleeve (44790) with bearing (42130).
- Assemble clutch disc (42145), clutch plate (42144), clutch disc (42145), clutch plate (42143) and clutch disc (42145) to clutch sleeve (44790).
- _Line up clutch dogs and assemble to clutch driver (42141).
- Assemble spring (42135) and spring cup driver (44797) into housing, and assemble clutch driver (42141) with clutch plates and clutch sleeve (44790) into housing, insuring that notches in clutch driver align with driver pins (42127) in housing.
- _Assemble spacer (44802) to housing.
- Press spindle (40486) into reversing sleeve (44794).
- __Assemble three drive pins (42599) to spindle and assemble into housing.
- —Assemble gear washer (44793) to housing, securing with retaining ring (44792).
- __Assemble spring (37632) into spindle (40486) and secure with nut (37635).
- _Assemble jaw (40488) to spindle, securing with screw (38034).
- __Assemble collet (37431-2) to spindle, securing with chuck nut (40490).
- _Assemble clutch springs (42134 and 42133), spring plate (42126), clutch adjusting cap (42125) and stop ring (37625) to housing.
- Assemble stop arm (42138) to tapper, securing with retaining ring (42140).

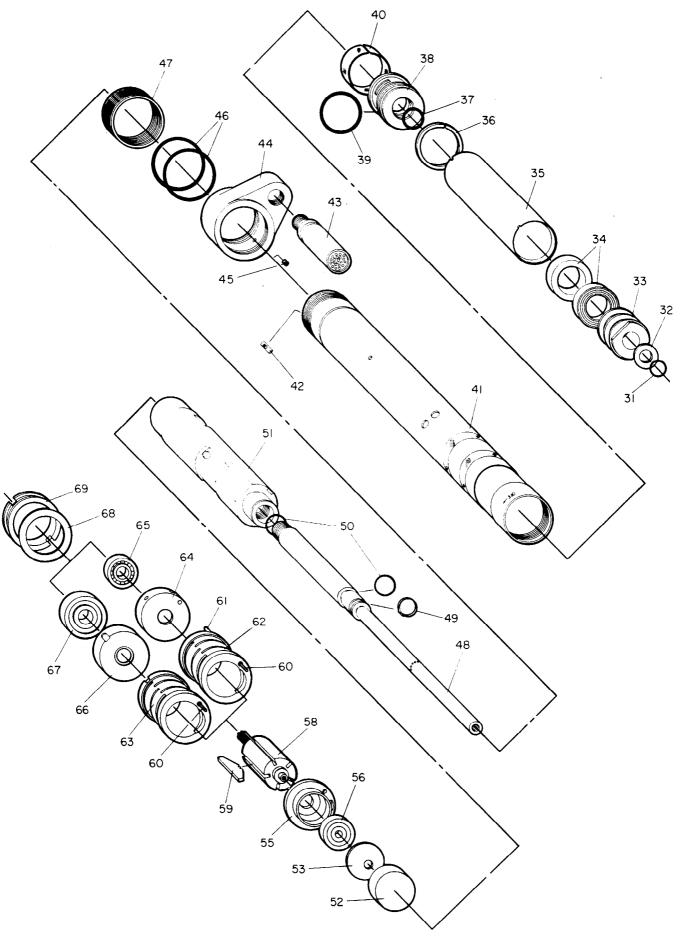
42123-1 TAPMATIC ATTACHMENT & TORQUE ARM ASS'Y OPERATOR INSTRUCTIONS

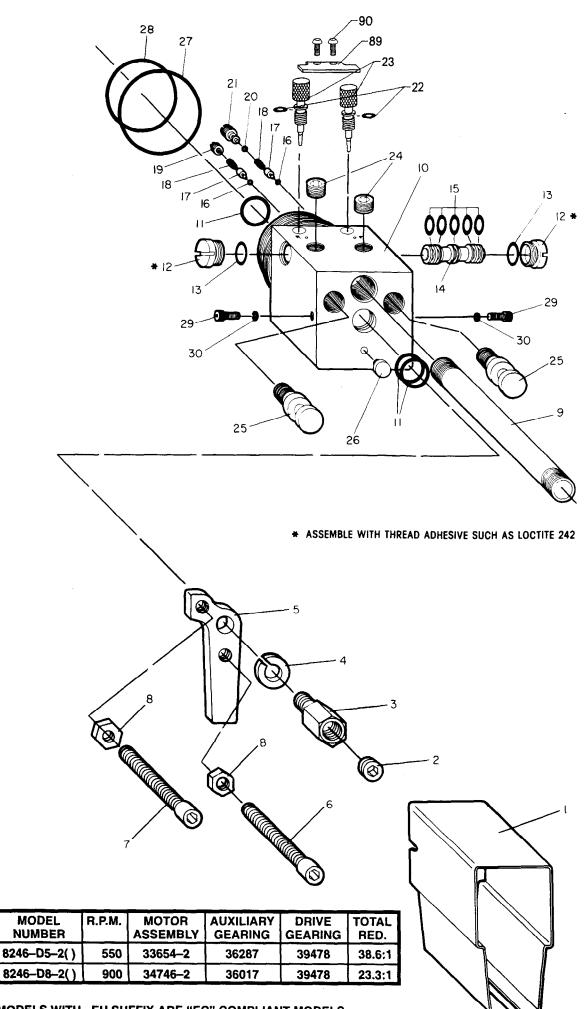
It is extremely IMPORTANT that a short arm (such as furnished) be employed with the tapping attachment to assure the best performance of the planetary gear reversing mechanism.

Before installing the tapping attachment, thoroughly clean the machine spindle. Insert the desired tap into the tap chuck of the attachment so the back jaws will engage the square of the tap. Tighten chuck nut first, then tighten back jaws. This will assure true running of the tap. The tapping attachment incorporates a spring loaded clutch. Driving torque adjustment is made by tightening or loosening the knurled clutch adjusting cap (42125). When the desired torque has been determined, the cap may be locked in place by tightening set screw (42920). The proper clutch adjusting procedure, when beginning tapping operation, is to loosen adjusting cap until all graduations on housing are visible, then tighten cap progressively until the unit will drive a sharp tap. If a clattering noise is heard during the tapping cycle, it means that the rollers in the units drive spindle have reached a neutral position and are seeking engagement with either the driving or reversing splines. NEVER permit this clattering to occur, as it will adversely effect the life of the attachment. The correct method of operation is to advance the machine spindle firmly to where the tap enters the hole, the tap then begins to feed itself into the work piece, follow behind with the machine spindle until the desired depth is reached. Lead pressure is not required with this attachment.

The free axial float in the attachment will automatically allow the tap to follow its own lead. A SHORT, QUICK, reaction movement of the machine spindle will instantly reverse the tap at any time. The tap will return to a right-handed rotation as soon as it is withdrawn from the hole. During reversal, retract the machine spindle ahead of the lead of the tap but not to the point where you are pulling against the tap itself. The spring loaded clutch will slip when the tap reaches bottom in blind hole tapping. If the clutch slips before the tap reaches the desired depth, it is evident that the tap is dull and should be replaced immediately with a sharp tap. THE CLUTCH SHOULD NOT BE TIGHTENED FURTHER. When the clutch releases, a buzzing sound is produced — this is not detrimental to the unit.







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GEARING DISASSEMBLY

- __Remove tapper attachment from tool.
- Thread adjustment screws (6) and (7) all the way back and push the piston rod (48) all the way forward to expose wrench flats of motor housing (51) from the outer sleeve (41).
- Using wrenches on flats of ring gear and motor housing, unthread gearing from motor housing.
- _Unthread ring gear (83) from ring gear (81 or 88)
- Grasp ring gear in one hand and tap the threaded end of the spindle with a soft faced hammer; spindle and components will loosen from ring gear.
- Remove bearing(s) and shafts from spindle to remove planet gears.

 To remove bearings (84) from ring gear, remove lock nut (86).

GEARING ASSEMBLY

- __Assemble gears to spindle and secure with shafts
- __Align notch at end of shaft with step on spindle (align notch of shaft with spacer (72 or 80) for auxiliary gearing).
- —Pack bearing (70) with ARO 33153 grease and assemble to spindle.
- _Lubricate gears of spindle liberally with ARO 33153 grease and assemble spindle to ring gear.
- Pack bearings (84) with ARO 33153 grease and assemble to spindle with the unmarked faces of bearing facing each other (identification markings on bearing facing out).
- _Assemble seal (87) to lock nut (86) and secure bearings (84) with lock nut.
- _Assemble spindle nut (85) to spindle (drive gearing only)
- __Assemble gearing to tool.
- __Assemble tapper attachment to tool.

MOTOR DISASSEMBLY

- _Remove gearing from tool as previously outlined.
- _Remove spacers (69 and 68) and motor assembly from housing
- Remove cap (52) and shield (53).
- —Grasp cylinder in one hand and tap splined end of rotor (58) with a soft faced hammer; motor will come apart.

MOTOR ASSEMBLY

- __Pack open bearings with ARO 33153 grease
- __Assemble bearing (56) to end plate (55).
- _Assemble end plate (55) to rotor.
- Coat i.d. of cylinder (62 or 63) with spindle oil 29665 and assemble cylinder to end plate (55) aligning air inlet slot of cylinder and end plate.
- _Coat rotor blades (59) with spindle oil 29665 and insert into rotor slots (straight side out).
- —Assemble bearing to front end plate and assemble end plate to rotor and cylinder.
- _Be sure rotor does not bind (if rotor binds, tap splined end of rotor lightly to loosen).
- _Assemble shield (53) and cap (52) to end plate (55)
- _Assemble motor and spacers (68 and 69) to motor housing
- _Assemble gearing to tool

AIR PISTON DISASSEMBLY

- Remove gearing and motor assembly as outlined
- Remove cover (1), adapter (3), washer (4) and trip bracket (5).
- __Place valve housing in a suitable holding device with the outer sleeve (41) in an upright position.
- Using a strap wrench on outer sleeve (41), unthread (L.H. threads) and CAUTIOUSLY remove outer sleeve straight up and off from valve housing to prevent bending of air cylinder (35) and damaging the inside diameter.
- —Handle the air cylinder (35) with care so its fine cylindrical shape is not distorted in any manner.
- If the air cylinder remains inside the outer sleeve when sleeve is removed, push the piston rod (48) forward then pull it backward. The cylinder will then extend from the sleeve and can now be removed.
- Remove "O" ring (31), bearing race (32) and retaining ring (49).
- _Push piston rod and motor housing out thru gear end of outer

- rod are removed from outer sleeve.
- __Insert a suitable rod thru gear end of outer sleeve and push muffler cap (38) out thru valve end of outer sleeve.
- Piston rod (48) and motor housing (51) are secured with a hard drying thread adhesive. If it should become necessary to separate these two parts, heat the threaded area lightly to soften the adhesive and unthread the rod from the housing (R.H. threads).

AIR PISTON ASSEMBLY

NOTICE: When a part containing "O" rings has been removed from tool, it is recommended that the "O" rings be replaced with new ones when reassembling part to the tool. Lubricate all "O" rings with ARO 36460 "O" ring lubricant.

- _Assemble retaining ring (36), "O" ring (37), "O" ring (39) and screen (40) to muffler cap (38).
- Assemble muffler cap (38), screened end first, to outer sleeve (41) from end of sleeve with internal threads. Push muffler cap into sleeve until it bottoms against step in sleeve.
- Coat torque pin (42) with grease to retain pin in place and assemble inside outer sleeve in hole provided.
- _Assemble "O" ring (50) to piston rod.
- Assemble motor housing and piston rod to outer sleeve thru end of sleeve with external threads and push piston rod thru muffler cap, using care not to damage "O" ring (37) contained in muffler cap. Align slot in motor housing with torque pin (42).
- __Assemble seals (34) to piston (33), with lips of seals facing away from each other.
- _Assemble piston (33) to piston rod (48) and push piston on rod until it seats against "0" ring (50) and step on rod.
- _Assemble retaining ring (49) to groove in piston rod, securing piston
- _Assemble bearing race (32) and "0" ring (31) to piston rod and slide them on rod until they seat against retaining ring (49).
- Clamp valve housing (10) in a suitable holding device with the threaded end of housing upright.
- _Coat i.d. of air cylinder (35) with "O" ring lubricant 36460 and place air cylinder on valve housing (10) over "O" ring (28).
- Using care not to damage "O" rings (11) contained in housing, insert piston rod (48) thru housing and carefully locate outer sleeve over air cylinder and thread sleeve to housing. Tighten securely using a strap wrench.
- —Assemble motor, gearing, trip bracket and components and assemble cover (1) to housing.

VALVE HOUSING DISASSEMBLY

The valve body (14), feed control valves (23) and button bleed valves (25) can be serviced without removing outer sleeve from valve housing. To gain access to check valves (17) and components or "O" rings (11), follow disassembly procedure for removing the air piston.

- __Remove both caps (12) and "O" rings (13).
- Push valve body (14) out thru housing. Handle valve body with reasonable care so the o.d. of valve is not damaged.
- Button bleed valves (25) need not be removed except for replacement.

VALVE HOUSING ASSEMBLY

- _Replace all "O" rings with new ones
- Lubricate "O" ring (15) with 36460 lubricant and assemble to valve body.
- Assemble "O" rings (22) to needle valves (23) and assemble needle valves to housing.
- __ Assemble plate (89) to housing, securing with screws (90).
- _Assemble valve body to housing and assemble caps (12) with "0" rings (13) to housing.
- __lf check valves (17) have been removed, assemble "O" rings (16) to valves and assemble valves to housing.
- __Assemble springs (18) to housing
- Assemble "O" ring (20) to screw plug (21) and assemble to
- _Assemble screw plug (19) to housing.
- Assemble outer sleeve and components to housing as described in air piston assembly section.

·						
	Cover	40294		50	"O" Ring (2 reg'd)	Y325-13
2	Pipe Plug	Y227-2-L	(51	Motor Housing	40296
3	Adapter	44883	!	52	Cap	39466
4	Lock Washer	Y14-616	1	53	Shield	39465
5	Trip Bracket	41713-2	}	55	Rear End Plate	33096
6	Adjustment Screw "A"	40292-2		56	Bearing	38232
7	Adjustment Screw "B"	40292-2		58	Rotor	30232
8	Nut (2 req'd)	Y11-4-C	i i	50	7 teeth, used with motor ass'y 33654-2	33026-1
9		40857-7-1	l i			34734-1
- 1	Pipe Nipple			59	12 teeth, used with motor ass'y 34746-2	
10	Valve Housing	40285 34276			Blade (5 req'd)	32860
]]	"O" Ring (3 req'd)			60	Roll Pin	33416
12	Cap (2 reg'd)	46696		61	Roll Pin	Y178-1
13	"O" Ring (2 req'd)	Y325-12		62	Cylinder (includes items 60 and 61)	33397
14	Valve Body	40287		63	Cylinder (includes item 60)	34747
15	"O" Ring (5 req'd)	41082		64	Front End Plate (used with motor 33654-2)	33024
16	O Ring (2 req a)	Y325-2		65	Bearing	32851
17	Check Valve (2 req'd)	39587		66	Front End Plate (used with motor 34746-2)	34742
18	Spring (2 req'd)	35733		67	Bearing	Y65-8
19	Screw Plug	39652			Motor Assembly	ł
20	"O" Ring	Y325-3			for 550 r.p.m. models	33654-2
21	Screw Plug	38863			for 900 r.p.m. models	34746-2
22	"O" Ring (2 req'd)	Y325-7		68	Spacer	34737
23	Needle Valve (2 rég'd)	48441-1		69	Spacer	33018
24	Pipe Plug (2 rèq'd)	Y227-2-L		70	Bearing	32850
25	Button Bleed Valve (2 reg'd)	24130		71	Shaft (2 reg'd)	33021
26	Stud	46558		72	Spacer	33019
27	"O" Ring	Y325-26		73	Spindle	36289
28	"O" Ring	Y325-24	1	74	Gear (2 reg'd) 20 teeth	33048
29	Screw (2 req'd)	Y154-19		75	Shaft (2 reg'd)	38722
30	Washer (2 req'd)	Y14-4		76	Spindle	39468
	Housing and Valve Assembly (includes			77	Gear (2 reg'd) 17 teeth	34745
	items 10 thru 30)	40813-1	i	78	Shaft (2 reg'd)	34735
31	"O" Ring	41534		79	Spindle	35915
32	Bearing Race	42364		80	Spacer	34736
33	Piston	39459-1		81		35914
34	Seal (2 req'd)	35922		82	Ring Gear	35900
35				83	Retaining Ring	39481
	Air Cylinder	39458 39471			Ring Gear (includes grease fitting 35967)	
36	Retaining Ring			84	Bearing (2 req'd)	48305-1
37	"O" Ring	Y325-16		85	Spindle Nut	38893-1
38	Muffler Cap	39456	i i	86	Lock Nut	38250
39	"O" Ring	Y325-24	1	87	Seal	38895
40	Screen	39461	ì	88	Ring Gear	36288
41	Outer Sleeve	40295			Auxiliary Gearing Ass'y (4.83:1) includes	ļ
42	Torque Pin	40297-1			items 70 (2 req'd), 77 (2 req'd.), 78 (2	1
43	Muffler	43551-2			req'd), 79, 80, 81 and 82	36017
44	Manifold (includes items 45 and 46)	41204]		Auxiliary Gearing Ass'y (8:1) includes items	j
45	Set Screw	Y29-82		l i	70 (2 req'd), 71 (2 req'd), 72, 73, 74 (2	1
46	"O" Ring (2 req'd)	Y325-29	[req'd), 82 and 88	36287
47	Thread Guard	35912			Drive Gearing Ass'y (4.83:1) includes items	1
48	Piston Rod	40293-1	} • •		70, 75 (2 reg'd), 76, 77 (2 reg'd) and	1
49	Retaining Ring	Y145-20		l	83 thru 87	39478
	• •	1		89	Plate	48440-1
		1	B 1	90	Screw (2 req'd)	Y211-1

SERVICE KIT NO. 41205-1

SERVICE KIT NO. 41310-1

FOR SERVICING ONE MODEL 8246-D8-2.

FOR SERVICING ONE MODEL 8246-D5-2.

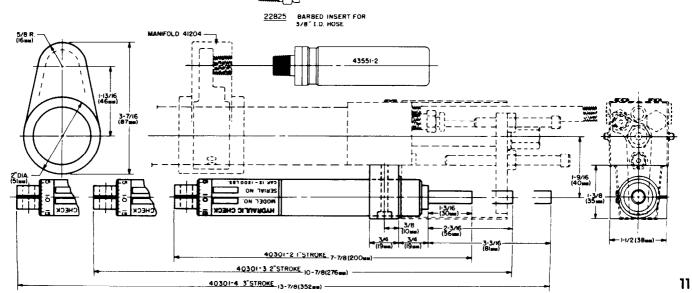
QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION
1	38232	Bearing	1	41799	Gear Lube	1	38232	Bearing	1	41795	Motor Oil
5	32860	Blade	1	41954	"O" Ring Lube	1	32851	Bearing	1	41799	Gear Lube
3	34276	"O" Ring	1	Y65-8	Bearing	5	32860	Blade	1	41954	"O" Ring Lube
2	35733	Spring	2	Y325-2	"O" Ring	3	34276	"O" Ring	2	Y325-2	"O" Ring
2	35922	Seal	1	Y325-3	"O" Ring	2	35733	Spring	1	Y325-3	"O" Ring
1	39461	Screen	2	Y325-7	"O" Ring	2	35922	Seal	2	Y325-7	"O" Ring
1	39466	Cap	2	Y325-12	"O" Ring	1	39461	Screen	2	Y325-12	"O" Ring
			2	Y325-13	"O" Ring	1	39466	Cap	2	Y325-13	"O" Ring
5	41082	"O" Ring	. 1	Y325-16	"O" Ring				1	Y325-16	"O" Ring
1	41534	"O" Ring	2	Y325-24	"O" Ring	5	41082	"O" Ring	2	Y325-24	"O" Ring
1	41795	Motor Oil	1:1	Y325-26	"O" Ring	1	41534	"O" Ring	1	Y325-26	"O" Ring

TROUBLE SHOOTING

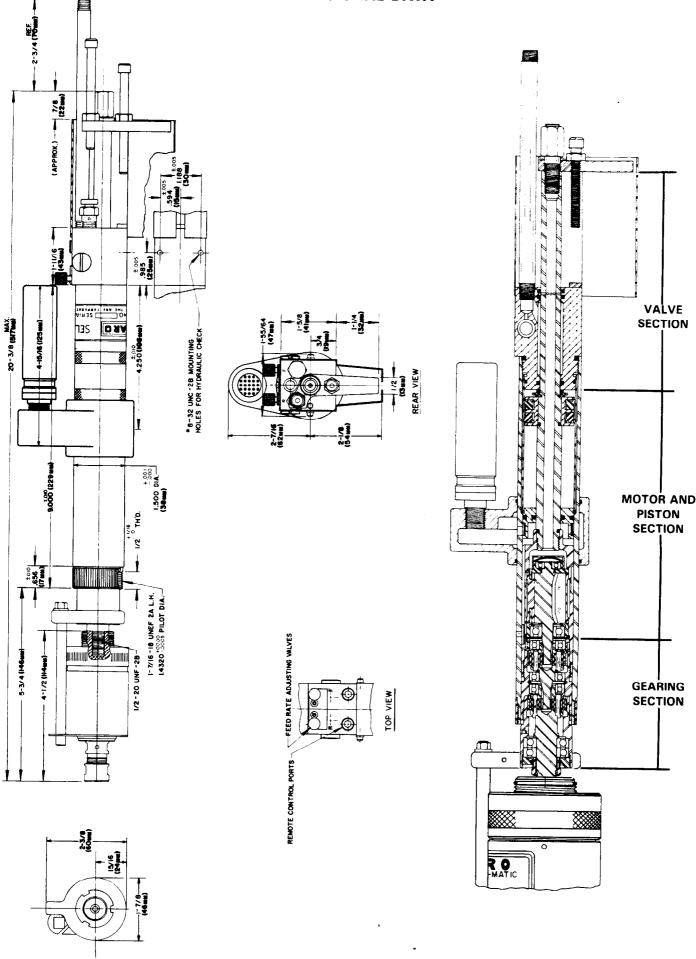
LISTED BELOW ARE SOME OF THE MOST COMMON CAUSES FOR THE SELF-FEED DRILL TO MALFUNCTION. MALFUNCTIONS BEYOND THE SCOPE OF THIS MANUAL SHOULD BE BROUGHT TO THE ATTENTION OF YOUR ARO REPRESENTATIVE OR RETURN THE TOOL TO FACTORY FOR REPAIR.

CONDITION	POSSIBLE CAUSE	CORRECTIVE ACTION				
Failure to feed or irregular or erratic feed.	1. Inadequate air supply	Check air supply for correct regulator adjustment (90 p.s.i.g. max. when tool is operating).				
	Feed control valves improperly adjusted.	2. Refer to set-up procedure, page 1.				
	3. Air leak around cap (12).	Check for damage to "O" ring. Check and insure caps are properly tightened.				
	4. Dirt or damaged "O" rings on spool valve (14).	4. Refer to valve section, page 9, and remove spool valve. Inspect, clean and replace "O" rings.				
	Clogged air passage in valve housing.	5. Remove valve housing from tool. Disassemble and blow all air passages clear of debris.				
Low speed or motor	1. Inadequate air supply.	Check air supply for correct regulator adjustment.				
fails to operate.	Clogged air passage in valve housing.	Remove valve housing from tool. Disassemble and blow all air passages clear of debris.				
Motor continues to	1. Piston not fully retracted.	1. Insure piston is not obstructed and is returned all the way back.				
run after retraction.	Damaged "O" ring (11) inside valve housing.	2. Remove valve housing from tool. Replace "O" rings.				
Failure to retract.	Improper adjustment or align- ment between adjustment screw and button bleed valve.	1. Refer to set-up procedure, page 1.				
	Feed control valves (23) improperly adjusted or dirty.	Check adjustment, refer to page 2. Remove, inspect and clean.				
	3. Air leak around cap (12).	3. Check for damage to "O" ring. Check and insure caps are properly tightened.				
	 Damaged "O"rings in muffler cap, valve housing or spool valve or seals on piston. 	4. Disassemble, inspect and replace "O" rings and/or seals.				
	5. Clogged air passage in valve housing.	5. Remove valve housing from tool. Disassemble and blow air passages clear of debris.				

ACCESSORIES



DIMENSIONAL DATA



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