MODELS 3801M2, 3801P2, 3801Q2, 3801R2, 3801S2 AND 3801U2 NONREVERSIBLE ASSEMBLY MACHINE MOTORS and

MODELS 3811M2, 3811P2, 3811Q2, 3811R2, 3811S2 AND 3811U2 NONREVERSIBLE ASSEMBLY MACHINE MOTORS WITH OFFSET HEAD

Always operate, inspect and maintain this tool in accordance with American National Standards Institute Safety Code for Portable Air Tools (ANSI B186.1) and any other applicable safety codes and regulations.

FOR TOP PERFORMANCE AND MAXIMUM DURABILITY OF PARTS, OPERATE THIS TOOL AT 90 psig(6.2 bar/620 kPa) AIR PRESSURE WITH 3/4" (19 mm) AIR SUPPLY HOSE.

AWARNING

Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool. Failure to do so could result in injury.

LUBRICATION

Oil: Ingersoll-Rand No. 50 Lubricant. Grease: Ingersoll-Rand No. 28 Lubricant.

We recommend the use of an air line lubricator in the air supply line. Attach the Ingersoll-Rand No. C31-06-G00 Filter-Lubricator-Regulator Unit as close to the motor as practical. These units have a 3/4" pipe tap inlet and outlet. The C31-06-G00 has a 3/4 qt (709 mL) capacity. Larger capacity units may be used, but do not use a unit having less than 3/4" pipe tap inlet and outlet.

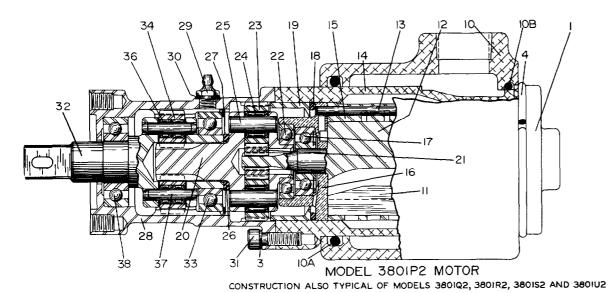
After each forty hours of operation, or as experience indicates, lubricate the Motor through the Grease Fitting (29). Do not grease excessively. Too much grease in the Gear Case (28) will cause heating. Grease leakage from the spindle end is also an indication that an excessive amount of grease has accumulated within the Gear Case.

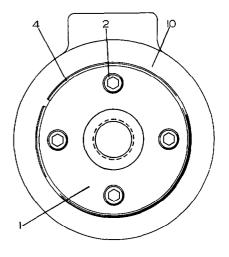
NOTICE

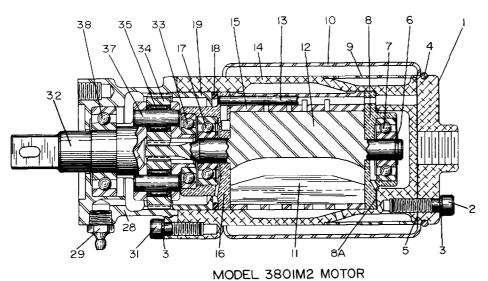
The use of other than genuine Ingersoll-Rand replacement parts may result in decreased Motor performance and increased maintenance, and may invalidate all warranties.

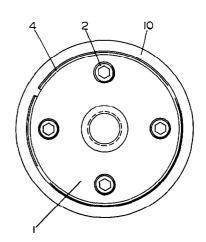
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(Dwg. TPA535-1)

PART NUMBER FOR ORDERING -

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			#			T 0001 11
1	Backhead	R3800-102	•	16	Front End Plate	R3801–11
2	Backhead Cap Screw (4)		•	17	8	R1-24A
3	1/4" Lock Washer (7)	8U-58	•	18	Motor Retaining Ring	34U-216
• 4	Exhaust Deflector Retaining Ring	R4-323	1	19	Motor Retainer	R3800-118
• 5	Backhead Gasket	R3800-283	l		Gear Head Assembly	
• 6	Rotor Bearing Retainer	404–118			for P ratio	R38P-A216
• 7	Rear Rotor Bearing	R1-24			for Q ratio	R380Q-A216
• 8	Rear End Plate	R3801-12	Ì		for R ratio	R3800R2-A216
• 8A	End Plate Gasket	R3801-739			for S ratio	R380S-A216
9	Muffler	R38-23			for U ratio	R3800U2-A216
10	Exhaust Deflector		•	20	Gear Head	
	with slotted front exhaust	R3800-23			for P ratio	R38P-216
	with 3/4" pipe tap exhaust				for Q ratio	R380Q-216
	(for piped-away exhaust)	R3800-A123			for R ratio	R3800R2-216
10A	Deflector Front Seal (used with				for S ratio	R380S-216
	piped-away Deflector)	R3800-210			for U ratio	R3800U2-216
10B	Deflector Rear Seal (used with		•	21	Rotor Pinion (for P ratio)	
	piped-away Deflector)	10BMP-604			(19 teeth)	R35P-17
11	Vane Packet (set of 6 Vanes)	R38-42-6		22	Gear Head Bearing	4E-510
• 12	Rotor		∥•	23	Gear Head Planet Gear (2)	
	for M, P, S and U ratios				for P ratio (22 teeth)	R38P-10
	(7 teeth)	R380IM-53			for Q ratio (25 teeth)	R380Q-10
	for Q ratio (11 teeth)	R3801Q-53	ļļ		for R ratio (26 teeth)	WBT380NL-10
	for R ratio (9 teeth	R3801R-53			for S and U ratios (27 teeth)	4E-10A
13	Cylinder Dowel	R38KT-198	•	24	Gear Head Planet Gear	
14	Motor Housing	R3800-40			Bearing (1 for each Gear)	8U-654
• 15	Cylinder	R3801-3	<u> </u>	25	Gear Head Planet Gear Shaft (2)	8U-191

[•] To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (•) for every four tools in service.

PART NUMBER FOR ORDERING -



PART NUMBER FOR ORDERING -

						
• 26	Gear Head Spacer	R38P-80			for P, Q, R or S ratio	
27	Spindle Bearing Retainer	FMC2-280			5/8" square drive	R3801P2-8
28	Gear Case (for M ratio)	ET3802M-A37	İ		Transducer type	R3801P-408
	Gear Case (for P, Q, R, S and U ratios)	ET3802P-A37			for U ratio	
29	Grease Fitting				5/8" square drive	R3801U2-8
	for M ratio	23–188			Transducer type	R3801U-408
	for P, Q, R, S and U ratios	R1-188		33	Spindle Rear Bearing	
30	Grease Fitting Washer (for P,				for M ratio	4E-510
	Q, R, S and U ratios)	R3-92A			for P, Q, R, S or U ratio	R38P-97
31	Gear Case Cap Screw (3)	R0H-354	#	34	Spindle Planet Gear]
#	Spindle Assembly	,			for M ratio (2) (27 teeth)	4E-10A
	for M ratio				for P, Q, R or S ratio (3)	
	with R3800M–8 Spindle	R3800M-A8			(12 teeth)	R3801P2-A9
	with R3800M-208 Spindle	R3800M-A208			for U ratio (3) (13 teeth)	R3801U2-A9
	with R3801M-408 Spindle	R3801M-A408		35	Spindle Planet Gear Bearing	
	for P, Q, R or S ratio				(for M ratio) (1 for each	
	with R3801P2–8 Spindle	R3801P2-A8			Planet Gear)	8U-654
	with R3801P-408 Spindle	R3801P-A408	#	36	Spindle Planet Gear Bearing	
	for U ratio	1			(for P, Q, R, S or U ratio)	
	with R3801U2-8 Spindle	R3801U2A8			(2 for each Planet Gear)	R3801P2-500

32

Spindle (for M ratio)

R3800M-208

R3801M-408

with R3801U-408 Spindle R3801U-A408

5/8" square drive R3800M-8

37

#

Spindle Planet Gear Shaft

Spindle Front Bearing

Air Strainer

13SR-264

4UA9-593

R38-565A

for P, Q, R, S or U ratio (3)

^{*} Not illustrated.

[#] Refer to IMPROVED PLANET GEARS on page 5 before ordering these parts for a P, Q, R, S or U ratio Motor.

[•] To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (•) for every four tools in service.

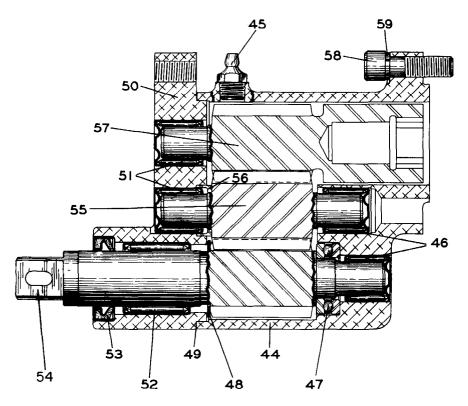
IMPROVED SPINDLE PLANET GEARS

In any current P, Q, R, S or U ratio Motor, each of the three Spindle Planet Gears is supported on the Planet Gear Shaft by two needle type Spindle Planet Gear Bearings (36) instead of by a bronze bushing. In this construction, the Spindle Planet Gear (34) and Spindle Planet Gear Shaft (37) differs from its counterpart in the previous construction, but as a set these parts can be used to replace the previous style parts.

Such conversion is recommended if replacement of the Spindle is required; it is not compulsory as the previous style parts remain available. Order old style as follows:

Spindle	
for P, Q, R or S ratio	R3800P_8
for U ratio	R3800U2_8
Spindle Planet Gear (includes Bushing)	-1000002
for P, Q, R or S ratio (12 teeth)	R38P_9
for U ratio (13 teeth)	R3800112-9
Spindle Planet Gear Bushing (3)	R38P_500
Spindle Planet Gear Shaft (3)	R38P_190
Refer to part list section for current style parts.	11301 -130

OFFSET HEAD ASSEMBLY



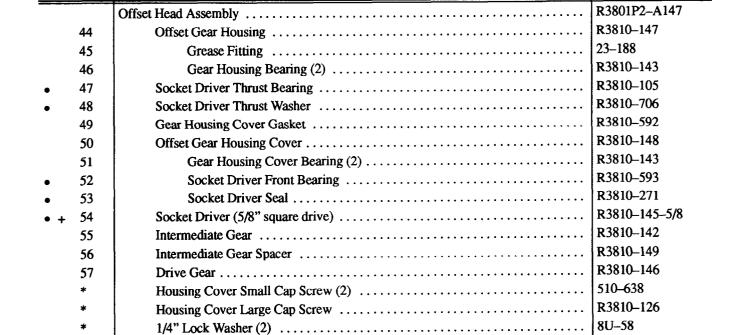
(Dwg. TPB195)

34U-58

34U-103

34U-58

PART NUMBER FOR ORDERING



59 5/10

* Not illustrated.

58

- + For 1/2" square drive Socket Driver order Part Number R1811-145-1/2
- To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (•) for every four tools in service.

5/16" Lock Washer (2)

Housing Cap Screw (4)

MAINTENANCE TOOLS

TOOL NUMBER		
FOR ORDERING	TOOL NAME FOR ORDERING	OPERATION
P25-228	Grease Gun	Lubrication.
33116	Needle Bearing Inserting Tool	Installing the Planet Gear Bearings (24 or 35) in
		the Planet Gears (23 or 34).

