

BRUKSANVISNING / USER MANUAL

3800 Series Assembly Machine Air Motors P5797

Ingersoll Rand 3840M2 · 3840S2 · 3840U2

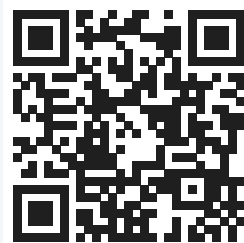
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Munkerödsvägen 5, 444 32 Stenungsund, Sverige · Org.nr 556684-8270

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protech@protech.nu · +46 303-891 35



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Form P5797
Edition 11
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MODELS 3800M2, 3800P2, 3800Q2, 3800R2, 3800S2 AND 3800U2
NONREVERSIBLE ASSEMBLY MACHINE MOTORS
MODELS 3840M2, 3840P2, 3840Q2, 3840R2, 3840S2 AND 3840U2
REVERSIBLE ASSEMBLY MACHINE MOTORS
and
MODELS 3850M2, 3850P2, 3850Q2, 3850R2, 3850S2 AND 3850U2
REVERSIBLE ASSEMBLY MACHINE MOTORS
WITH OFFSET HEAD

Always operate, inspect and maintain this Motor 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 MOTOR AT 90 psig (6.2 bar/620 kPa) AIR PRESSURE WITH 3/4" (19 mm) AIR SUPPLY HOSE.

▲WARNING

Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this Motor, or before performing any maintenance on this Motor. 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.

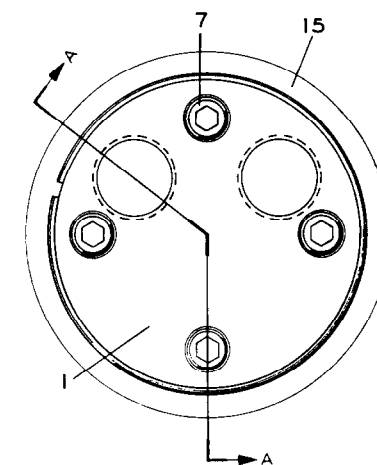
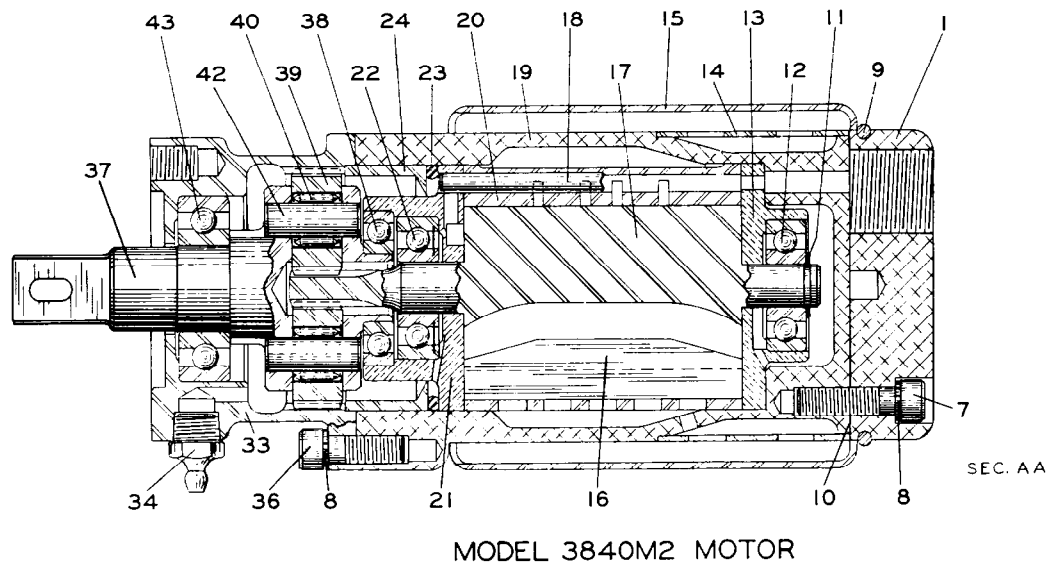
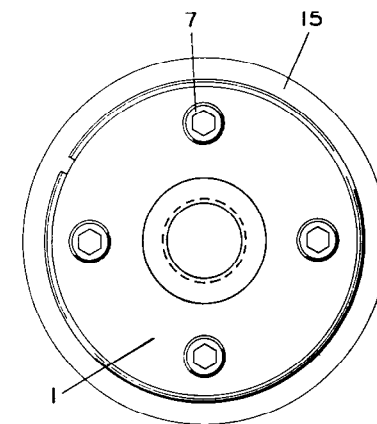
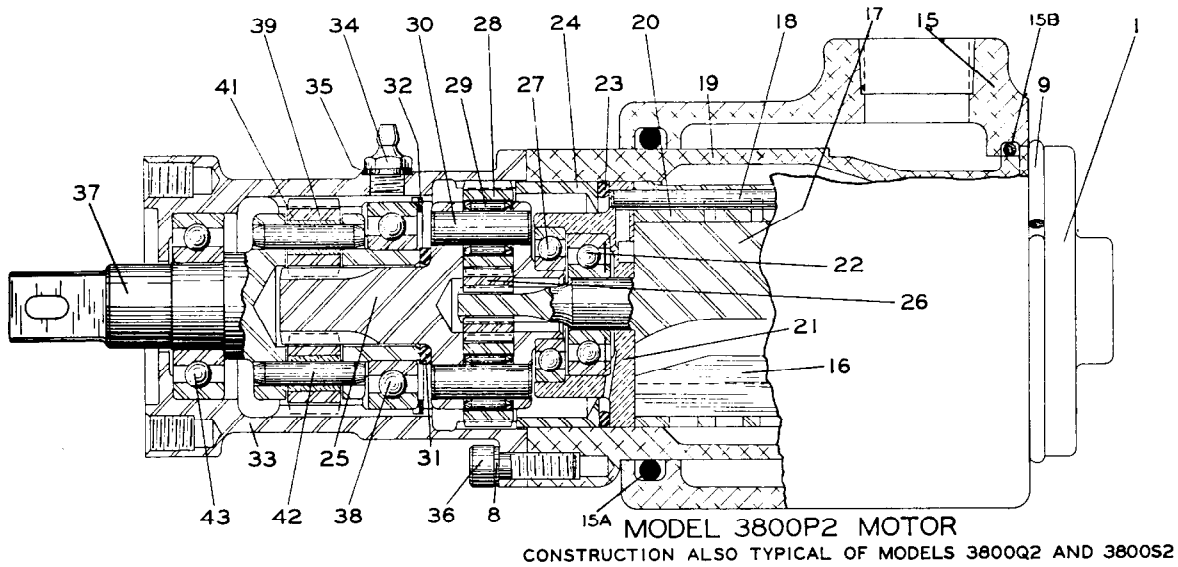
After each forty hours of operation, or as experience indicates, lubricate the Motor through the Grease Fitting (34). Do not grease excessively. Too much grease in the Gear Case (33) will cause heating. Grease leakage from the spindle end is also an indication that an excessive amount of grease has accumulated 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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INGERSOLL-RAND®
AIR MOTORS



(Dwg. TPA189-1)

PART NUMBER FOR ORDERING

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1	Backhead Assembly	R3820-A202	• 21	Front End Plate	R3800-11
	Backhead		• 22	Front Rotor Bearing	R1-24A
	for Series 3800	R3800-102	• 23	Motor Retaining Ring	34U-216
	for Series 3840 and 3850	R3840-102	24	Motor Retainer	R3800-118
7	Backhead Cap Screw (4)	510-638		Gear Head Assembly	
8	1/4" Lock Washer (7)	8U-58		for P ratio	R38P-A216
• 9	Exhaust Deflector Retaining Ring	R4-323		for Q ratio	R380-A216
• 10	Backhead Gasket			for R ratio	R3800R2-A216
	for Series 3800	R3800-283		for S ratio	R380S-A216
	for Series 3840 and 3850	R3840-283		for U ratio	R3800U2-A216
• 11	Rotor Bearing Retainer	404-118	• 25	Gear Head	
• 12	Rear Rotor Bearing	R1-24		for P ratio	R38P-216
• 13	Rear End Plate	R3800-12		for Q ratio	R380Q-216
♦ 14	Muffler	R38-23		for R ratio	R3800R2-216
15	Exhaust Deflector			for S ratio	R380S-216
	with slotted front exhaust	R3800-23		for U ratio	R3800U2-216
	with 3/4" Pipe Tap exhaust	R3800-A123	• 26	Rotor Pinion (for P ratio) (19 teeth)	R38P-17
15A	Deflector Front Seal		27	Gear Head Bearing	4E-510
	(used with R3800-A123)	R3800-210	• 28	Gear Head Planet Gear (2)	
15B	Deflector Rear Seal			for P ratio (22 teeth)	R38P-10
	(used with R3800-A123)	10BMP-604		for Q ratio (25 teeth)	R380Q-10
• 16	Vane Packet (set of 5 Vanes)	R38-42-5		for R ratio (26 teeth)	WBT380NL-10
• 17	Rotor			for S or U ratio	
	for M, P, S or U ratio (7 teeth) ...	R3800M-53		(27 teeth)	4E-10A
	for Q ratio (11 teeth)	R3800Q-53	• 29	Planet Gear Bearing (2)	8U-654
	for R ratio (9 teeth)	R3800R2-53	• 30	Gear Head Planet Gear Shaft (2)	8U-191
18	Cylinder Dowel	R38KT-198	• 31	Gear Head Spacer	R38P-80
19	Motor Housing	R3800-40	32	Spindle Bearing Retainer	FMC2-280
• 20	Cylinder		33	Gear Case	
	for Series 3800	R3800-3		for M ratio	ET3802M-A37
	for Series 3840 and 3850	R3840-3		for P, Q, R, S or U ratio	E3802P-A37-37

♦ Muffler (14) is not used with tapped Exhaust Deflector.

• 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

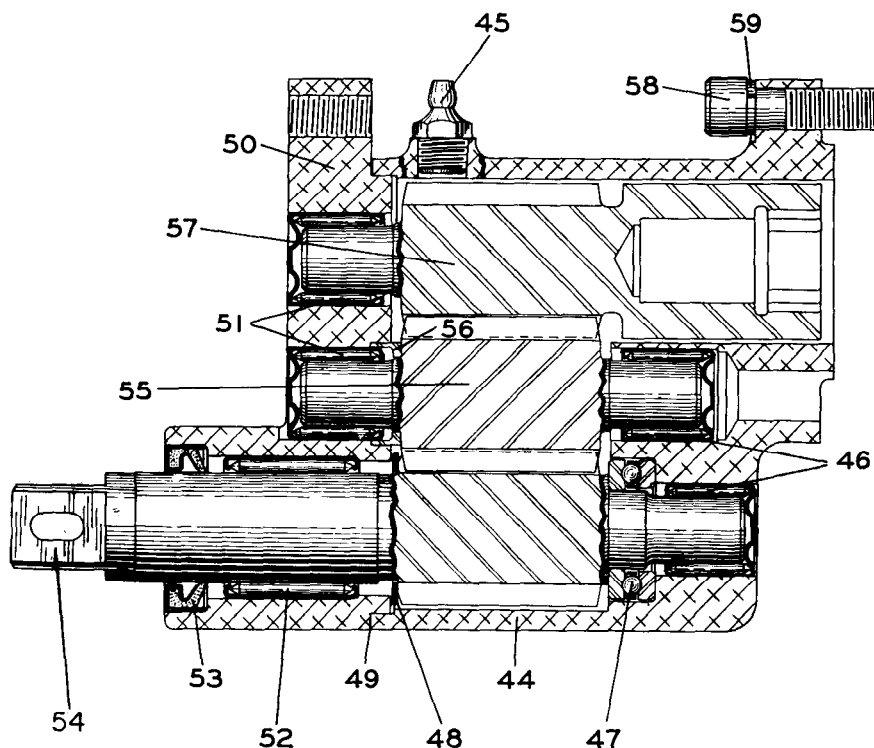
PART NUMBER FOR ORDERING

34	Grease Fitting		•	38	Spindle Rear Bearing	
	for M ratio	23-188			for M ratio	4E-510
	for P, Q, R, S or U ratio	R1-188			for P, Q, R, S or	
35	Grease Fitting Washer			39	Spindle Planet Gear	
	(for P, Q, R, S or U ratio)	R3-92A			for M ratio (2)	
36	Gear Case Cap Screw (3)	R0H-354			(27 teeth)	4E-10A
	Spindle Assembly				for P, Q, R or S	
	for M ratio				ratio (3)	
	with 3800M-8 Spindle	R3800M-A8			(12 teeth)	R38P-9
	with 3800M-208 Spindle	R3800M-A208			for U ratio (3)	
	for P, Q, R or ratio				(13 teeth)	R3800U2-9
	with 3800P-8 Spindle	R3800P-A8				
	with 3800P-208 Spindle	R3800P-A208		•	Spindle Planet Gear Bearing	
	with 3800P-308-1 Spindle	R3800P-A308-1			(for M ratio) (1 for each	
	for U ratio	R3800U2-A8			Spindle Planet Gear)	8U-654
• 37	Spindle			•	Spindle Planet Gear Bushing	
	for M ratio				(for P, Q, R, S or U ratio)	
	5/8" square drive	R3800M-8			(1 for each Spindle Planet	
	1/2" square drive	R3800M-208			Gear)	R38P-500
	for P, Q, R or S ratio				Spindle Planet Gear Shaft	
	5/8" square drive,				for M ratio (2)	8U-191
	standard length (extends				for P, Q, R, S or	
	1-1/4" from gear case face)	R3800P-8			U ratio (3)	R38P-190
	1/2" square drive,					4UA9-593
	standard length	R3800P-208			Spindle Front Bearing	
	1/8" square drive					
	(1" longer than standard)	R3800P-308-1			Air Strainer (1 for	
	for U ratio	R3800U2-8			Nonreversible Motors;	
					2 for Reversible Motors)	R38-565A

* Not illustrated.

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OFFSET HEAD ASSEMBLY (FOR SERIES 3850 MOTORS)



(Dwg. TPB195)

PART NUMBER FOR ORDERING

	Offset Head Assembly	R3810P2-A147
44	Offset Gear Housing	R3810-147
45	Grease Fitting	23-188
46	Gear Housing Bearing (2)	R3810-143
47	Socket Driver Thrust Bearing	R3810-105
• 48	Socket Driver Thrust Washer	R3810-706
• 49	Gear Housing Cover Gasket	R3810-592
50	Offset Gear Housing Cover	R3810-148
51	Gear Housing Cover Bearing (2)	R3810-143
• 52	Socket Driver Front Bearing	R3810-593
• 53	Socket Driver Seal	R3810-271
• 54	Socket Driver	
	5/8" square drive	R3810-145-5/8
	1/2" square drive	R1811-145-1/2
55	Intermediate Gear	R3810-142
56	Intermediate Gear Spacer	R3810-149
57	Drive Gear	R3810-146
*	Housing Cover Small Cap Screw (2)	510-638
*	Housing Cover Large Cap Screw (2)	34U-103
*	1/4" Lock Washer (2)	8U-58
*	5/16" Lock Washer (2)	34U-58
58	Housing Cap Screw (4)	34U-103
59	5/16" Lock Washer (6)	34U-58

* Not illustrated.

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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 (29 or 40) in the Planet Gears (28 or 39).

NOTES

