



16572786
Edition 2
June 2009

Air Drill

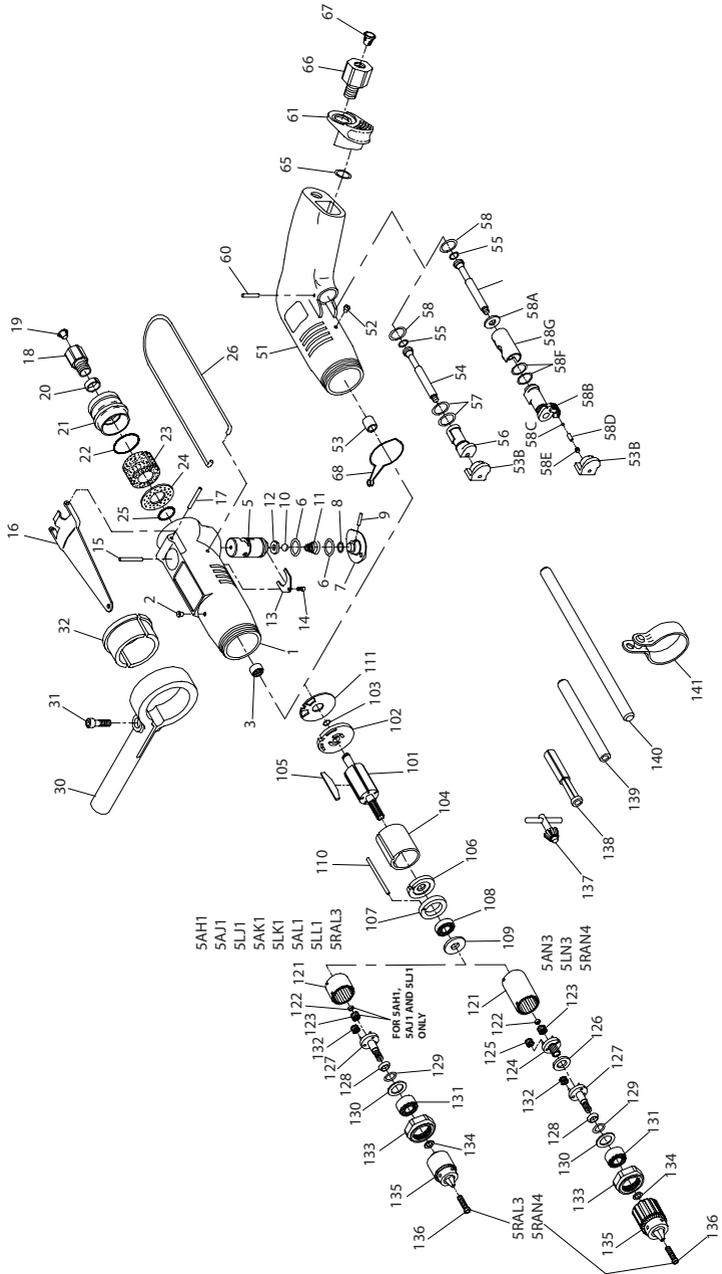
5 Series

Parts Information



Save These Instructions

5 Series Air Drill Exploded View



(Dwg.TPA782-7)

5 Series Air Drill Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly (for 5L models)			for 5AJ1, 5AK1 and 5AL1	5AK-AT40
	for 5LJ1, 5LK1 and 5LL1	5LK-A40		for 5AJ1-EU, 5AK1-EU and 5AL1-EU	5AK-EU-AT40
	for 5LJ1-EU, 5LK1-EU and 5LL1-EU	5LK-EU-A40		for 5AN3	5AN-AT40
	for 5LN3	5LN-A40		for 5AN3-EU	5AN-EU-AT40
	for 5LN3-EU	5LN-EU-A40		for 5RAL3	5RAK-A40
1	Motor Housing			for 5RAL3-EU	5RAK-EU-A40
	for 5LJ1, 5LK1 and 5LL1	5RLK-B40		for 5RAN4	5RAN-A40
	for 5LJ1-EU, 5LK1-EU and 5LL1-EU	5RLK-EU-B40		for 5RAN4-EU	5RAN-EU-A40
	for 5LN3	5RLN-B40	51	Motor Housing	
	for 5LN3-EU	5RLN-EU-B40		for 5AH1, 5AJ1, 5AK1, 5AL1, 5RAL3	5RAK-B40
*	Warning Label			for 5AH1-EU, 5AJ1-EU, 5AK1-EU, 5AL1-EU and 5RAL3-EU	5RAK-EU-B40
	for models ending in -EU	EU-99		for 5AN3 and 5RAN4	5RAN-B40
	for all other models	WARNING-7-99		for 5AN3-EU and 5RAN4-EU	5RAN-EU-B40
2	Grease Fitting	DOF9-879	*	Warning Label	
3	Rear Rotor Bearing	5R-24		for models ending in -EU	EU-99
	Throttle Assembly	5L-A329		for all other models	WARNING-7-99
5	Throttle Valve Body Assembly	5RL-B329	52	Grease Fitting	DOF9-879
† • 6	Throttle Valve Seal (2)	85H-167	† 53	Rear Rotor Bearing	5R-24
7	Valve Knob	5L-658		Throttle Assembly	
† • 8	Valve Knob Seal	R1A-159		for 5AH1	5AH-AT302
9	Valve Knob Retainer	R2N-152		for 5AJ1, 5AK1, 5AL1, 5AN3, 5RAL3 and 5RAN4	5A-AT302
10	Throttle Valve	G601-65			
† 11	Throttle Valve Spring	5RL-51	53B	Trigger	5RA-93
† 12	Throttle Valve Seat	5L-323	+ 54	Throttle Valve Assembly	5A-BT302
13	Throttle Assembly Retainer	5RL-667	55	Throttle Valve Face	401-159
• 14	Retainer Screw	WWA100-77	56	Throttle Bushing Assembly	
15	Throttle Valve Plunger	5RL-302		for 5AH1	5AH-A503
16	Throttle Lever	5RL-273		for 5AJ1, 5AK1, 5AL1 & 5AN3	5A-A503
17	Throttle Lever Pin	5RL-120	57	Throttle Bushing Seal (2)	410-283
18	Inlet Bushing Assembly	5RA-A565	58	Throttle Bushing Seat	R18L-14
† • 19	Air Strainer Screen	5RA-61	58A	Throttle Valve Seat (for 5RAL3 and 5RAN4)	5RA-303
20	Inlet Bushing Spacer	5RA-65			
21	Exhaust Deflector	5RL-23	58B	Reverse Valve Assembly (for 5RAL3 and 5RAN4)	5RA-A329
† 22	Exhaust Deflector Seal	R00A2-103			
† 23	Muffler Element	5RL-311	58C	Reverse Valve Detent Ball	AV1-255
24	Exhaust Silencer	5RL-310	58D	Reverse Valve Detent Spring	5RA-664
† 25	Silencer Seal Ring	R18LF-21	58E	Reverse Valve Detent Adjusting Screw)	5RA-665
26	Suspension Bail	5RL-365			
30	Dead Handle Assembly	728N-A48	58F	Reverse Valve Seal Ring (2)	PS3-67
31	Dead Handle Pinch Bolt	510-638	58G	Reverse Valve Bushing (for 5RAL3 and 5RAN4)	5RA-330
32	Dead Handle Adapter (2)	5A-49		Throttle Retaining Pin	R100B-120
	Motor Housing Assembly (for 5A and 5RA Models)		60	Muffler Assembly	
	for 5AH1	5AH-AT40		for 5AH1	5A-A123
	for 5AH1-EU	5AH-EU-AT40			

5 Series Air Drill Parts List continued,

Item	Part Description	Part Number	Item	Part Description	Part Number
	for 5AJ1, 5AK1, 5AL1, 5AN3, 5RAL3 and 5RAN4	5RA-A123A		for all others	5R-13
65	Silencer Seal Ring	R18LF-21		Spindle Assembly	
66	Inlet Bushing Assembly	5RA-A565		for 5AH1	5AH-A8
• 67	Air Strainer Screen	5RA-61		for 5AJ1 and 5LJ1	5A-A8
68	Hanger	5RA-365		for 5AK1, 5LK1, 5AL1, 5LL1 and 5RAL3	5AK-A8
				for 5AN3, 5LN3 and 5RAN4	5AN-A8
*	Nameplate		• 127	Spindle	
	for pistol grip models ending in -EU	4RA-EU-301		for 5AH1, 5AJ1 and 5LJ1	5AJ-8
	for all other pistol grip models	4RA-301		for 5AK1, 5LK1, 5AL1, 5LL1 and 5RAL3	5AK-8
	for lever throttle models ending in -EU	5RA-EU-301		for 5AN3, 5LN3 and 5RAN4	5AN-8
	for all other lever throttle models	5RA-301	• 128	Slinger Ring	5A-28
*	Nameplate Screw (2)	BN403-302	• 129	Seal (for 5AJ1, 5LJ1, 5AK1, 5LK1, 5AL1, 5LL1, 5AN3, 5LN3, 5RAL3 and 5RAN4)	182A53-610
101	Rotor		130	Grease Shield	5R-701
	for K ratio (8 teeth)	5RLK-53	131	Spindle Bearing	5A-510
	for H, J, L or N Ratio (6 teeth)	5RLL-53	132	Spindle Planet Gear (3)	
102	Rear End Plate	5RLK-12		for 5AH1, 5AJ1 and 5LJ1 (13 teeth)	5RAN-9
†103	End Plate Retainer	5RLK-118		for 5AK1 and 5LK1 (15 teeth)	5RAK-10A
104	Cylinder			for 5AL1, 5LL1 and 5RAL3 (17 teeth)	5RAL-10B
	for 5RAL3 and 5RAN4	5RLK-3		for 5AN3, 5LN3 and 5RAN4 (14 teeth)	5RAN-10A
	for all other models	5LK-3	133	Spindle Bearing Locknut	5A-27
†105	Vane Packet (set of 5)	R1401-42-5	134	Drill Chuck Spacer	5A-90
106	Front End Plate	5RLK-11	135	Drill Chuck	
107	Front Rotor Bearing Housing	5R-13		0 to 1/4" (0 to 6.4 mm) capacity (for H, J, K or L ratio nonreversible models ending in 1)	ROH-99
†108	Front Rotor Bearing	WWA100-97		0 to 3/8" (0 to 9.5 mm) capacity (for L or N ratio models ending in 3)	R1M-99
109	Bearing Retainer Washer (for all except 5AD1)	5R-80	136	Chuck Screw (for 5RAL3 and 5RAN4)	105485
110	Cylinder Dowell		137	Drill Chuck Key	
	for 5AD1	106-98		for No. ROH-99 Chuck	R1H-J253
	for all others	R0A1-98		for No. R1M-99 Chuck	R1M-J253
†111	Rear End Plate Gasket	5RLK-739		for No. R0K-99 Chuck	R1T-J253
• 121	Ring Gear		+	Vibra-Tite***	
	for 5AK1 and 5LK1 (40 teeth)	5RAK-406A		0.6 cc	5R-VT06
	for 5AH1, 5AJ1, 5LJ1, 5AL1, 5LL1 and 5RAL3 (42 teeth)	5RAL-406A		30.0 cc	5R-VT30
	for 5AN3, 5LN3 and 5RAN4 (42 teeth)	5RAN-406B		Rear Rotor Bearing Puller	5R-A799
121A	Housing Spacer (for 5AD1)	5AD-406	138	Bearing Puller	5R-799
• 122	Rotor Pinion Spacer (for 5AH1, 5AJ1, 5LJ1, 5LN3 and 5RAN4)	5RAN-18	139	Puller Extension	5R-800
• 123	Rotor Pinion (for 5AH1, 5AJ1, 5LJ1, 5AN3, 5LN3 and 5RAN4)	5RAN-17	140	Puller Expanding Rod	5R-798
• 124	Gear Head Assembly (for 5AN3, 5LN3 and 5RAN4)	5RAN-A216	141	Horizontal Hanger	7RA-A366
• 125	Gear Head Planet Gear (3) (13teeth) (for 5AN3, 5LN3 and 5RAN4)	5RAN-9	*	Grease Gun	R000A2-228
			*	Piped-Away Exhaust Kit (for Series 5L Drills)	5L-K184
126	Gear Head Spacer (for 5AN3, 5LN3 and 5RAN4)	5R-80	*	Chuck Shield	5A-309
	for 5AD1	106-13		Tune-up Kit (includes illustrated parts 6, 8, 11, 12, 19, 22, 23, 25, 53, 57, 103, 105, 108, 111 and 129)	5A/5L-TK1

* Not illustrated

† Indicates Tune-up Kit part.

• 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.

+ ** Registered trademark of ND Industries

Parts and Maintenance

When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.

Tool repair and maintenance should only be carried out by an authorized Service Center.
Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

Related Documentation

For additional information refer to:

Air Drill Product Safety Information Manual 04580353.

Air Drill Product Information Manual 16572166.

Air Drill Maintenance Information Manual 16572644.

Manuals can be downloaded from www.ingersollrandproducts.com

www.ingersollrandproducts.com

© 2009 **Ingersoll Rand** Company

