



Form 16572760

Edition 1

June 2006

Air Drill

1 Series

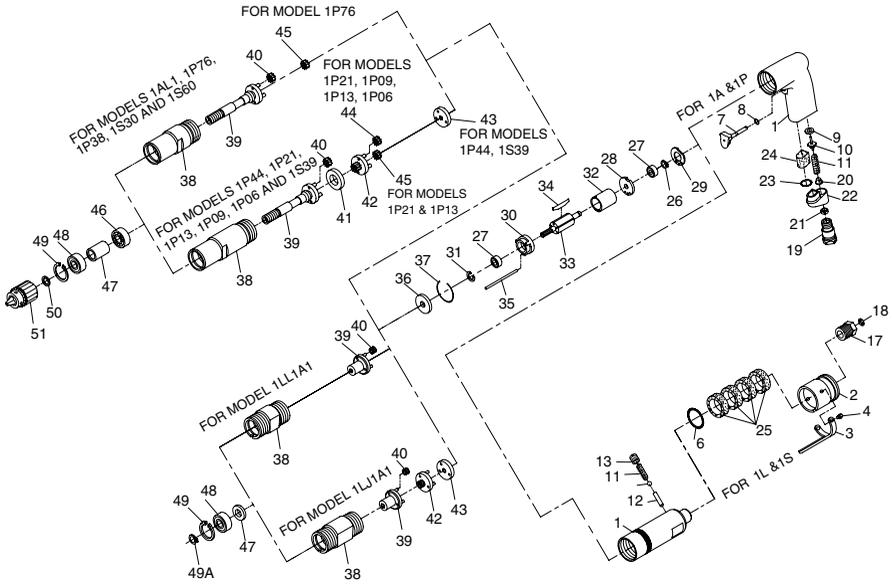
Parts Information



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1 Series Air Drill Motor and Gearing Exploded Diagram



(Dwg. TP2084)

1 Series Air Drill Motor and Gearing Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Motor Housing Assembly		12	Throttle Valve Plunger	
	For all 1A and 1P Models	3A-EU-A40		For Models 1L and 1S	3RL-302
	For all 1S and 1L Models	3L-EU-A40		13	Throttle Valve Cap (for Models 1L and 1S)
	Exhaust Deflector Assembly (for 1L and 1S Models)	3RL-EU-A23	14	Throttle Valve Ball (for Models 1L and 1S)	4U-722
2	Exhaust Deflector (for Model 1L and 1S)	3RL-EU-23	* 15	Name Plate	
3	Throttle Lever (for Model 1L and 1S)	3RL-273	For all Models	04725032	
4	Throttle Lever Pin (2)	3RL-120	* 16	Warning Label	
* 5	Vertical Hanger	7L-365	For all Models	WARNING-28-99	
• 6	Exhaust Deflector Seal (for Models 1L and 1S)	3RL-210	17	Inlet Bushing Assembly (for Models 1S and 1L)	3RL-565
7	Trigger Assembly (for Models 1A and 1P)	3RA-A93	• 18	Inlet Screen (for Models 1L and 1S)	3RL-61
† • 8	Trigger Pin Seal (for Models 1A and 1P)	8SL-259	19	Inlet Bushing (for Models 1A and 1P)	7AH-565
† • 9	Throttle Valve Seat (for Models 1A and 1P)	7AH-303	† • 20	Inlet Screen (for Models 1A and 1P)	R0A2-61
† • 10	Throttle Valve (for Models 1A and 1P)	7AH-302	21	Inlet Bushing Spacer (for Models 1A and 1P)	3RA-65
† • 11	Throttle Valve Spring		22	Muffler Assembly (for Models 1A and 1P)	3RA-A123
	For Models 1A and 1P	3RA-51	† • 23	Muffler O-Ring (for Models 1A and 1P)	85H-167
	For Models 1L and 1S	3RL-51			

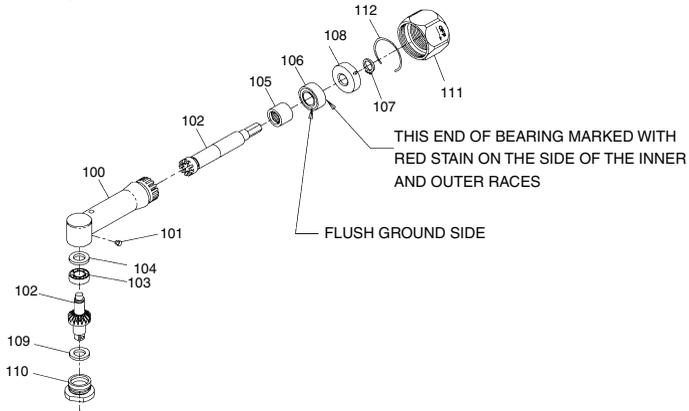
Item	Part Description	Part Number	Item	Part Description	Part Number
† • 24	Muffler Element (for Models 1A and 1P)	3RA-310	41	Gear Head Spacer (for Models 1P44ST4, 1P21ST4, 1P13ST4, 1P09ST4, 1P06ST4 and 1S39MF4)	3RL-80
• 25	Muffler Element (4) (for Models 1L and 1S)	3RL-311			
† • 26	Rear Rotor Bearing Retainer	8SL-305	42	Gear Head	3RLM-216
† 27	Rotor Bearing (2)	DG10-22			
28	Rear End Plate	3RL-12			
† • 29	Rear End Plate Gasket	3RL-739			
30	Front End Plate	3RL-11			
† • 31	Front Rotor Bearing Retainer	3RL-13	43	Drive Plate (for Models 1P44ST4, 1LJ1A1 and 1P39MF4)	M002-216-044
32	Cylinder (for Models 1A and 1L) Cylinder (for Models 1P and 1S)	3RL-3 3RL-3HP			
33	Rotor (for Models 1A and 1L) Rotor (for Models 1P and 1S)	3RL-53 3RL-53HP	44	Gear Head Planet Gear (3)	M002-216-028
† • 34	Vane Packet (set of 5 Vanes) (for Models 1A & 1L) Vane Packet (set of 6 Vanes) (for Models 1P & 1S)	3RL-42-5 3RL-42-6			
35	Cylinder Dowel	3RL-98	45	Rotor Pinion (for Models 1P21ST4, 1P13ST4 and 1P76ST4)	3RLM-17
36	Motor Clamp Washer	3RL-207			
37	Clamp Washer Retaining Ring	3RL-208	46	Rear Spindle Bearing (for all Models except 1LL1A1 and 1LJ1A1)	R00H-97
38	Gear Case				
	For Models 1AL1, 1P38ST4, 1S30MF4, 1P76ST4 and 1S60MF4	3AL-37	47	Spindle Bearing Spacer (for all Models except 1LL1A1 and 1LJ1A1)	3A-111A
	For Models 1P44ST4, 1P21ST4, 1P13ST4, 1P09ST4, 1P06ST4 and 1S39MF4	3AM-37			
	For Models 1LL1A1	3RLL-37	48	Front Spindle Bearing	R00A-510
	For Models 1LJ1A1	3RLM-37			
39	Spindle		49	Spindle Bearing Retainer	3RANT2-28
	For Models 1AL1, 1P38ST4 and 1S30MF4	3AH-8			
	For Models 1AL1, 1P38ST4 and 1S30MF4	3AL-8	49A	Spindle Retaining Ring (for Models 1LJ1A1 and 1LL1A1)	3RL-6
	For Models 1P09ST4 and 1P21ST4	3AM-8			
	For Models 1P44ST4, 1P13ST4, 1P06ST4 and 1S39MF4	3AN-8	50	Drill Chuck Spacer	5A-90
	For Model 1LL1A1	3RLL-108	51	Drill Chuck	R0H-99
	For Model 1LJ1A1	3RLN-108	51A	Chuck Key	R1H-J253
		52	Horizontal Hanger	3RA-365	
40	Spindle Planet Gear (3)		53	Tune-up Kit (includes illustrated parts 8, 9, 10, 11, 20, 23, 24, 26, 27[2], 29, 31 and 34)	3A-TK2
	For Models 1AL1, 1LL1A1, 1P38ST4 and 1S30MF4	3RLL-10			
	For Models 1P76ST4, 1P09ST4, 1P21ST4 and 1P60MF4	3RLM-10	53	Tune-up Kit (includes illustrated parts 8, 9, 10, 11, 20, 23, 26, 27, 29, 31 and 34)	3A-TK2HP
	For Models 1P44ST4, 1LJ1A1, 1P13ST4, 1P06ST4 and 1S39MF4	3RLN-10			

* 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.

1 Series Air Drill Angle Attachment Exploded Diagram



(Dwg. TPC525)

1 Series Air Drill Angle Attachment Parts List

Item	Part Description	3RL1A1	3RL1A4
	Angle Attachment	3RL1A1	3RL1A4
100	Angle Housing	3RL1A-550	3RL1A-550
101	Grease Fitting	D0F9-879	D0F9-879
102	Matched Bevel Gear Set (Bevel Pinion and Spindle not sold separately)	3RL1A-A591	3RL1A4-A591
103	Spindle Upper Bearing	7L1A-603	7L1A-603
104	Upper Bearing Shim Packet	7L1A-P448	7L1A-P448
105	Bevel Pinion Bearing	7AH-24	7AH-24
106	Bevel Pinion Thrust Bearing	3RL1A-514	3RL1A-514
107	Thrust Bearing Retainer	3RL2-705	3RL2-705
108	Rear Thrust Bearing Seat Assembly (Includes Rear Bearing Seat and Lock Pin)	3RL1A-682	3RL1A-682
109	Lower Spindle Bearing	7L1A-593	7L1A-593
110	Spindle Bearing Cap	7L1A-A531	7L1A-531
111	Coupling Nut	3RL2-27	3RL2-27
112	Coupling Nut Retainer	3RL2-29	3RL2-29

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:
 Product Safety Information Manual 04580353.
 Product Information Manual 16572059.
 Product Maintenance Information Manual 16572661.

Manuals can be downloaded from www.irttools.com.

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