

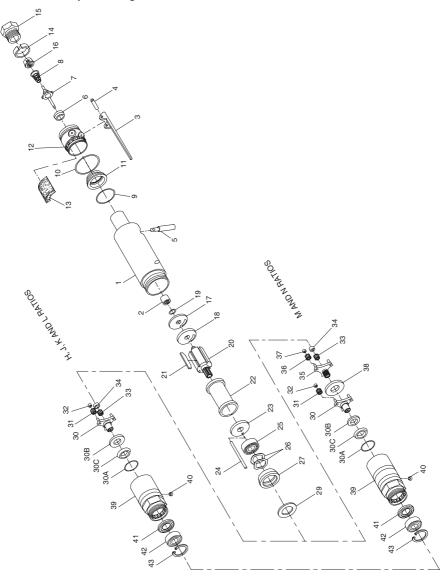
Air Drill 7L Series

Parts Information





7L Series Air Drill Exploded Diagram



(Dwg.TPA782-7)

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7L Series Air Drill Parts List

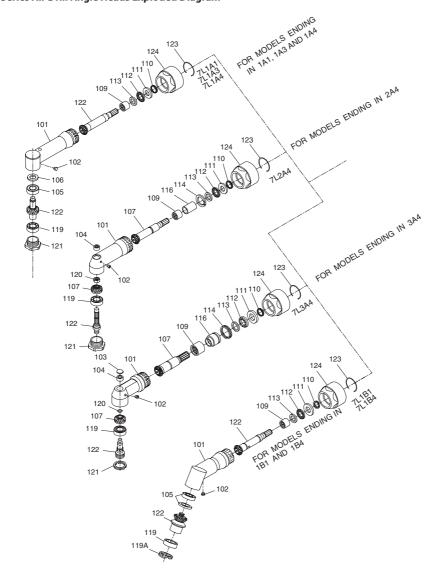
Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly			for K and N ratios	7LK-A8
	for 7LJ1B1 and 7LK1B1	7L1B-A40		for L ratio 7LL-A8	
	for 7LJ1B1-EU and 7LK1B1-EU	7L1B-EU-A40		for M ratio	7LM-A8
	for all others models ending in -EU	7L-EU-A40A	30A	Spindle Seal (for K, L, M and N ratios)	182A53-610
	for all others models	7L-A40A	30B	Seal Retaining Washer (for J, K, L, M and N ratios)	7L-303
1	Motor Housing		30C	Seal Support (for J, K, L, M and N ratios)	5RAK-5
	for 7LJ1B1 and 7LK1B1	7L1B-B40	31	Spindle Planet Gear Assembly (3)	
	for 7LJ1B1-EU and 7LK1B1-EU	7L1B-EU-B40		for H ratio (15 teeth)	7AH-A10
	for all others ending in -EU	7L-EU-B40A		for J and M ratios (18 teeth)	7AJ-A10
	for all others models	7L-B40A		for K and N ratios (21 teeth)	7AK-A10
2•	Rear Rotor Bearing 7L-24			for L ratio (22 teeth)	7AL-A10
*	Warning Label		32	Spindle Planet Gear Bearing (1 for each Gear)	
	for models ending in -EU	EU-99		for H ratio	7AH-500
	for all others models	WARNING-7-99		for J and M ratios	7AJ-500
3	Throttle Lever	7L-273		for K, L and N ratios	7AK-500
4	Throttle Lever Pin	7L-120	33	Rotor Pinion	
5	Throttle Plunger	7L-94A		for H, M and N ratios (22 teeth)	7AH-17
6	Throttle Valve Seat	7AH-303		for J ratio (16 teeth)	7AJ-17
7•	Throttle Valve	7AH-302	34	Rotor Pinion Spacer (for H, J, M and N ratios)	7AH-18
8	Throttle Valve Spring	7L-51	35	Gear Head	
9	Silencer Seal Ring	WWV100A1-43		for M ratio (16 teeth)	7AM-216
10	Exhaust Deflector Seal	7A-379		for N ratio (10 teeth)	7AN-216
		77(37)		Gear Head Planet Gear Assembly (for M and N	
11	Exhaust Silencer 7L-310		36	ratios (15 teeth) (3)	7AH-A10
12	Exhaust Deflector	7L-23	37	Gear Head Planet Gear Bearing (1 for each Gear)	7AH-500
13•	Muffler Element 7L-311		38	Gear Head Spacer (for M or N ratio)	7AN-80
14	Inlet Bushing Spacer	7AH-65		Gear Case Assembly	
15	Inlet Bushing	7L-565		for H, J, K and L ratios	7LH-A37A
16•	Air Strainer Screen	R0A2-61		for M and N ratios	7LM-A37A
*		110/12/01	39	Gear Case	72111713771
-	Locking Type Throttle Lever Assembly	7111444 4400	39		7111 0274
	for 7LH1A1 for 7LJ1A1	7LH1A1-A400 7LJ1A1-A400		for H, J, K and L ratios for M and N ratios	7LH-B37A 7LM-B37A
	for 7LK1A1	7LK1A1-A400	40	Grease Fitting	D0F9-879
17•	Rear End Plate Gasket	7AH-739	41	Grease Shield	5R-701
18	Rear End Plate	7A11-739	42	Spindle Bearing	R1L-24
10	for 7LJ1B1 and 7LK1B1	7RL-12	43	Spindle Bearing Retainer	7L-28
	for all others	7AH-12	*	Drill Chuck	7.2.20
19•	End Plate Retainer	7AH-118		0 to 1/4" capacity	R0H-99
20	Rotor			0 to 5/16" capacity	6A-99
	for H, J, L, M and N ratios	7AH-53		0 to 3/8" capacity	R1M-99
	for K ratio	7AK-53		5/64" to 1/2" capacity	R0K-99
• 21	Vane Packet (set of 4 Vanes)	7AH-42A-4	*	Drill Chuck Key	
22	Cylinder	7AH-3A		for R0H-99	R1H-J253
23•	Front End Plate	7AH-11		for 6A-99	R0J-J253
24	Cylinder Dowel	7AH-98		for R1M-99	R1M-J253
25•	Front Rotor Bearing	R1-22		for R0K-99	R1T-J253
26	Bearing Spring Washer (2)	7AH-278	*	Bevel Pinion Sprag Key (for 7L1A1, 7L1A3 and 7L1B1	
27	Front Rotor Bearing Housing	7AH-13	*	Suspension Bail	7L-365
29	Bearing Housing Spacer	7AH-81	*	Grease Gun	R000A2-228
30	Spindle Assembly		*	Spindle Bearing Cap Wrench Tune-up Kit (includes illustrated parts: 2, 6, 7, 8,	8SA32-26
	for H ratio	7LH-8	*	9, 10, 13,	

^{*} Not illustrated.

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[•] 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.

7L Series Air Drill Angle Heads Exploded Diagram



(Dwg. TPA911-4)

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7L Series Air Drill Angle Heads Parts List

Item	Part Description	For Models ending in 1A1, 1A3 and 1A4	For Models ending in 1B1 and 1B4
	Angle Drill Attachment		
	for models ending in 1A1	7L1A1	
	for models ending in 1A3	7L1A3	
	for models ending in 1A4	7L1A4	
	for models ending in 1B1		7L1B1
	for models ending in 1B4		7L1B4
101	Angle Housing Assembly	7L1A-B550	7L1B-A550
102	Grease Fitting	D0F9-879	D0F9-879
103	Angle Housing Cap		
• 104	Spindle Upper Bearing		
105	Spindle Upper Bearing	7L1A-603	7L1B-A97
• 106	Upper Bearing Shim Packet (two thicknesses of Shims)	7L1A-P448	
• 107	Matched Bevel Gear Set (includes Bevel Pinion and Bevel Gear)		
• 109	Bevel Pinion Bearing	7AH-24	7L1B-593
110	Bearing Seat Retainer	W22-6	W22-6
111	Rear Thrust Bearing Seat	7L2A-682	7L2A-682
112	Bevel Pinion Thrust Bearing	3RL2-105	3RL2-105
113	Front Thrust Bearing Seat	7L1A-683	7L1A-683
114	Pinion Bearing Spacer Retainer		
116	Bevel Pinion Bearing Spacer		
•119	Lower Spindle Bearing	7L1A-593	7L1B-593
119A	Lower Spindle Bearing Retainer		7L1B-28
120	Bevel Gear Retainer		
121	Spindle Bearing Cap	7L1A-531	
• 122	Angle Drill Gear Set (includes Bevel Pinion and Bevel Gear/ Spindle)		
	with 1/4-28 female thread (for models ending in 1A1)	7L1A1-A591	
	with 1/4-28 female thread (for models ending in 1B1)		7L1B1-A591
	with 5/16-24 female thread (for models ending in 1A3)	7L1A3-A591	
	with 9/32-40 male thread (for models ending in 1A4)	7L1A4-A591	
	with 9/32-40 female thread (for models ending in 1B4)		7L1B4-A591
123	Coupling Nut Retainer	5C1-29	5C1-29
124	Coupling Nut	7L-27	7L-27
*	Bearing Inserting Tool	7L1A-950	7L1B1-955

^{*} Not illustrated.

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7L Series Air Drill Angle Heads Parts List

Item	Part Description	For Models ending in 2A4	For Models ending in 3A4
	Angle Drill Attachment	7L2A4	7L3A4
101	Angle Housing Assembly	7L2A-B550	7L3A-B550
102	Grease Fitting	D0F9-879	D0F9-879
103	Angle Housing Cap		8SA32-110
• 104	Spindle Upper Bearing	120A4-603	8SA32-603
105	Spindle Upper Bearing		
• 106	Upper Bearing Shim Packet (two thick- nesses of Shims)		
• 107	Matched Bevel Gear Set (includes Bevel Pinion and Bevel Gear)	141A12-A552	7L3A-A552
• 109	Bevel Pinion Bearing	H54U-511B	182A53-606
110	Bearing Seat Retainer	1415A12-6	1415A12-6
111	Rear Thrust Bearing Seat	7L2A-682	7L2A-682
112	Bevel Pinion Thrust Bearing	161A32-105	161A32-105
113	Front Thrust Bearing Seat	141A12-683	141A12-683
114	Pinion Bearing Spacer Retainer	RXA21-343	182A53-685
116	Bevel Pinion Bearing Spacer	7L2A-165	182A53-165
• 119	Lower Spindle Bearing	120A4-593	8SA32-593
119A	Lower Spindle Bearing Retainer		
120	Bevel Gear Retainer	120A4-578	8SA32-578
121	Spindle Bearing Cap	7L2A4-531	8SA32-531
• 122	Angle Drill Gear Set (includes Bevel Pinion and Bevel Gear/Spindle)		
#	with 3/8-24 male thread	7L2A4-791	7L3A4-791
	with 9/32-40 female thread		
123	Coupling Nut Retainer	5C1-29	5C1-29
124	Coupling Nut	7L-27	7L-27
*	Bearing Inserting Tool	7L2A-950	7L3A-950

^{*} Not illustrated.

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 16572174.

Air Drill Maintenance Information Manual 16572638.

Manuals can be downloaded from ingersollrandproducts.com

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[#] Does not include Bevel Gear Set. For Bevel Gear Set, order illustration number 107.

Notes

