



**16572836**  
Edition 3  
May 2014

## **Air Drill**

**5, 5L, 5R Series**

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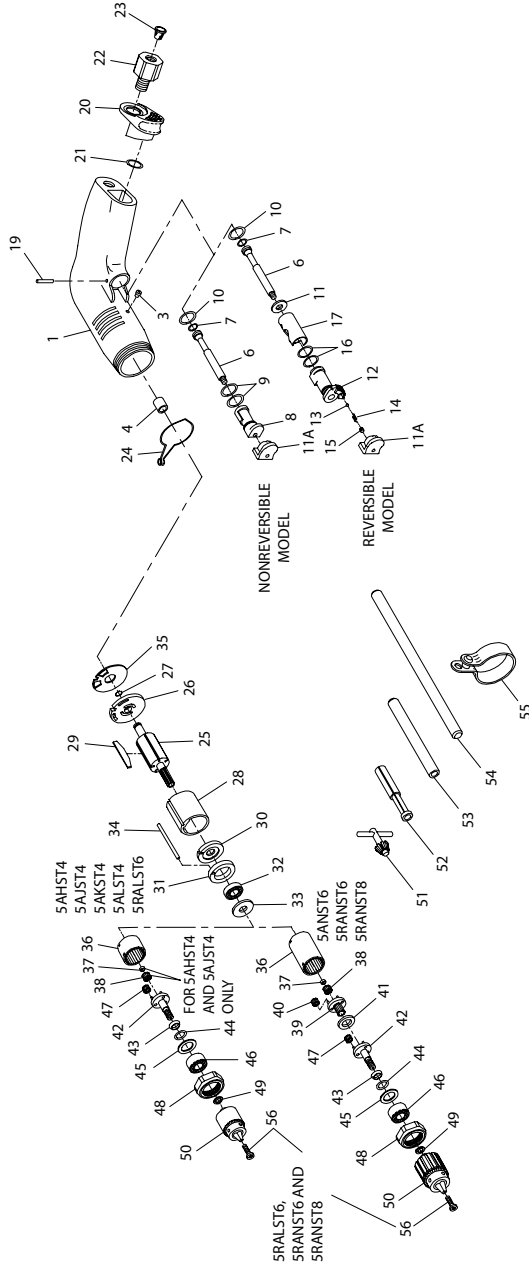
# **Parts Information**



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 **Ingersoll Rand®**

5, 5L and 5R Air Drill Exploded View



(Dwg.TPA1364-2)

## 5, 5L and 5R Air Drill Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly		13	Reverse Valve Detent Ball	AV1-255
	for 5AHST4	5AH-ATST40	14	Reverse Valve Detent Spring	5RA-664
	for 5AHST4-EU	5AH-EU-ATST40	15	Reverse Valve Detent Adjusting Screw	5RA-665
	for 5AJST4, 5AKST4 and 5ALST4	5AK-ATST40	• 16	Reverse Valve Seal Ring (2)	PS3-67
	for 5AJST4-EU, 5AKST4-EU and 5ALST4-EU	5AK-EU-ATST40		18	Reverse Valve Bushing (for 5RALST6, 5RANST6 and 5RANST8)
	for 5ANST6	5AN-ATST40	19	Throttle Retaining Pin	R100B-120
	for 5ANST6-EU	5AN-EU-ATST40	20	Muffler Assembly	
	for 5RALST6	5RAK-AST40		for 5AHST4	5A-A123
	for 5RALST6-EU	5RAK-EU-AST40		for 5AJST4, 5AKST4, 5ALST4, 5ANST6, 5RALST6, 5RANST6 and 5RANST8	5RA-A123A
	for 5RANST6 and 5RANST8	5RAN-AST40			
	for 5RANST6-EU and 5RANST8-EU	5RAN-EU-AST40			
1	Motor Housing		• 21	Silencer Seal Ring	R18LF-21
	for 5AHST4, 5AJST4, 5AKST4, 5ALST4, and 5RALST6	5RAK-BST40	22	Inlet Bushing Assembly	5RA-A565
	for 5AHST4-EU, 5AJST4 -EU, 5AKST4 -EU, 5ALST4 -EU, and 5RALST6 -EU	5RAK-EU-BST40	• 23	Air Strainer Screen	5RA-61
	for 5ANST6, 5RANST6 and 5RANST8-EU	5RAN-EU-BST40	24	Hanger	5RA-365
			*	Nameplate	4RA-301
			*	Nameplate Screw (2)	BN403-302
			25	Rotor	
				for K ratio (8 teeth)	5RLK-53
				for H, J, L or N ratio (6 teeth)	5RLL-53
*	Warning Label		26	Rear End Plate	5RLK-12
	for models ending in -EU	EU-99			
	for all other models	WARNING-7-99	†• 27	End Plate Retainer	5RLK-118
3	Grease Fitting	D0F9-879	28	Cylinder	
† 4	Rear Rotor Bearing	5R-24		for 5RALST6, 5RANST6 and 5RANST8	5RLK-3
	Throttle Assembly			for all other models	5LK-3
	for 5AHST4	5AH-AT302	†• 29	Vane Packet (set of 5)	R1401-42-5
	for 5AJST4, 5AKST4, 5ALST4, 5ANST6, 5RALST6, 5RANST6 and 5RANST8	5A-AT302	30	Front End Plate	5RLK-11
			31	Front Rotor Bearing Housing	5R-13
+ 6	Throttle Valve Assembly	5A-BT302	†• 32	Front Rotor Bearing	WWA100-97
7	Throttle Valve Face	401-159	33	Bearing Retainer Washer	5R-80
+ 8	Throttle Bushing Assembly		• 34	Cylinder Dowel	ROA1-98
	for 5AHST4	5AH-A503	†• 35	Rear End Plate Gasket	5RLK-739
	for 5AJST4, 5AKST4, 5ALST4 and 5ANST6	5A-A503	• 36	Ring Gear	
				for 5AKST4 (40 teeth)	5RAK-406A
† 9	Throttle Bushing Seal (2)	410-283		for 5AHST4, 5AJST4, 5ALST4 and 5RALST6 (42 teeth)	5RAL-406A
10	Throttle Bushing Seat	R18L-14		for 5ANST6, 5RANST6 and 5RANST8 (42 teeth)	5RAN-406B
11	Throttle Valve Seat				
	(for 5RALST6, 5RANST6 and 5RANST8)	5RA-303	• 37	Rotor Pinion Spacer (for 5AHST4, 5AJST4, 5ANST6, 5RANST6 and 5RANST8)	5RAN-18
11A	Trigger	5RA-93	• 38	Rotor Pinion (for 5AHST4, 5AJST4, 5ANST4, 5RANST6 and 5RANST8)	5RAN-17
+12	Reverse Valve Assembly (for 5RALST6, 5RANST6 and 5RANST8)	5RA-A329			

Item	Part Description	Part Number	Item	Part Description	Part Number
• 39	Gear Head Assembly (for 5ANST6, 5RANST6 and 5RANST8)	5RAN-A216	50	Drill Chuck	
• 40	Gear Head Planet Gear (3) (13 teeth) (for 5ANST6, 5RANST6 and 5RANST8)	5RAN-9		0 to 1/4" (0 to 6.4 mm) capacity (for H, J, K or L ratio)	R0H-99
41	Gear Head Spacer (for 5ANST6, 5RANST6 and 5RANST8)	5R-80		0 to 3/8" (0 to 9.5 mm) capacity (for N ratio)	R1M-99
				0 to 1/2" (0 to 13 mm) capacity (for N ratio)	R0K-99
	Spindle Assembly		51	Drill Chuck Key	
	for 5AHST4	5AH-A8		for No. R0H-99 Chuck	R1H-J253
	for 5AJST4	5A-A8		for No. R1M-99 Chuck	R1M-M253
	for 5AKST4, 5ALST4 and 5RALST6	5AK-A8		for No. R0K-99 Chuck	R1T-J253
	for 5ANST6, 5RANST6 and 5RANST8	5AN-A8	*	Vibra-Tite***	
42	Spindle		0.6 cc	5R-VT06	
	for 5AHST4 and 5AJST4	5AJ-8	30.0 cc	5R-VT30	
	for 5AKST4, 5ALST4 and 5RALST6	5AK-8		Rear Rotor Bearing Puller	5R-A799
	for 5ANST6, 5RANST6 and 5RANST8	5AN-8	52	Bearing Puller	5R-799
• 43	Slinger Ring	5A-28	53	Puller Extension	5R-800
† • 44	Seal		54	Puller Expanding Rod	5R-798
	for 5AJST4, 5AKST4, 5ALST4, 5ANST6, 5RALST6, 5RANST6 and 5RANST8	182A53-610	55	Horizontal Hanger	7RA-A366
			56	Chuck Screw (for reversible models)	105485
			*	Grease Gum	R000A2-228
45	Grease Shield	5R-701	*	Chuck Shield	5A-309
46	Spindle Bearing	5A-510	*	Tune-up Kit (includes illustrated parts 4, 9, 27, 29, 32, 35 and 44)	5A/5L-TK1
• 47	Spindle Planet Gear (3)		*	Dead handle Assembly (for models 5ANST6, 5RANST6 and 5RANST8)	R1A-A48
	for 5AHST4 and 5AJ1 (13 teeth)	5RAN-9	*	Cap Screw	510-638
	for 5AKST4 (15 teeth)	5RAK-10A	*	Dead Handle Adapter Set for models 5ANST6, 5RANST6 and 5RANST8 (includes two adapters)	5A-ST49
	for 5ALST4, and 5RALST6 (17 teeth)	5RAL-10B			
	for 5ANST6, 5RANST6 and 5RANST8 (14 teeth)	5RAN-10A			
48	Spindle Bearing Locknut	5A-27			
49	Drill Chuck Spacer	5A-90			

\* 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.

+ When ordering any of these parts for replacement, also order a new Trigger (11A).

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## **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.

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## **Related Documentation**

For additional information refer to:

Air Drill Product Safety Information Manual 04580353.

Air Drill Product Information Manual 16572208.

Air Drill Maintenance Information Manual 16572596.

Manuals can be downloaded from [ingersollrandproducts.com](http://ingersollrandproducts.com)





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