



Form 16572836

Edition 1

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## Air Drill

5 and 5R

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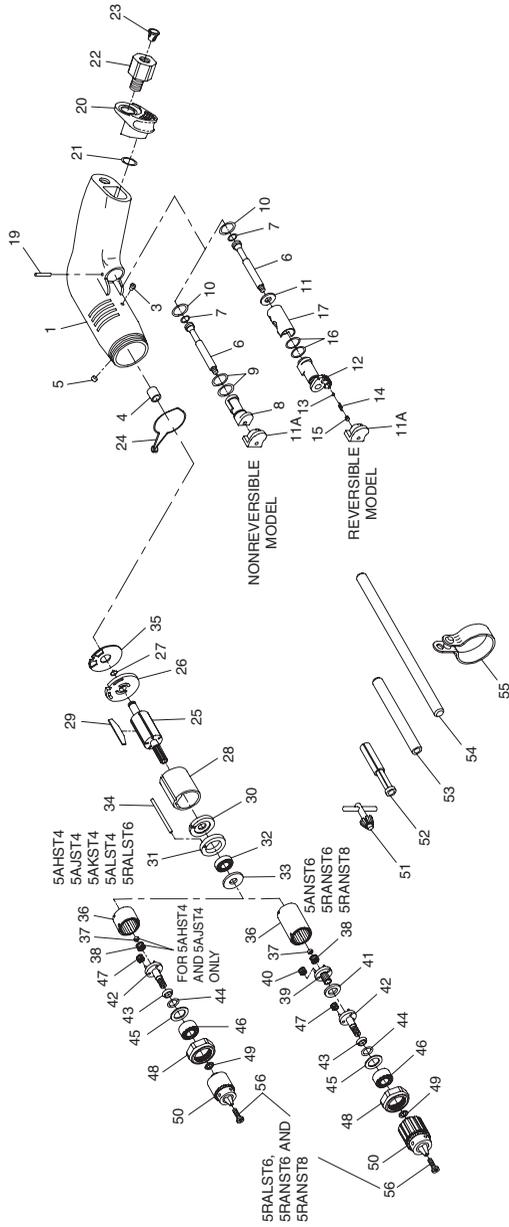
# Parts Information



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***IR*** Ingersoll Rand®

5 and 5R Air Drill Exploded Diagram



(Dwg. TPA1364-2)

## 5 and 5R Air Drill Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly			for 5AJST4, 5AKST4, 5ALST4, 5ANST6, 5RALST6, 5RANST6and 5RANST8	5RA-A123A
	for 5AHST4	5AH-ATST40			
	for 5AHST4-EU	5AH-EU-ATST40			
	for 5AJST4, 5AKST4 and 5ALST4	5AK-ATST40	*	21 Silencer Seal Ring	R18LF-21
	for 5AJST4-EU, 5AKST4-EU and 5ALST4-EU	5AK-EU-ATST40	*	22 Inlet Bushing Assembly	5RA-A565
	for 5ANST6	5AN-ATST40	*	23 Air Strainer Screen	5RA-61
	for 5ANST6-EU	5AN-EU-ATST40		24 Hanger	5RA-365
	for 5RALST6	5RAK-AST40	*	Nameplate	4RA-301
	for 5RALST6-EU	5RAK-EU-AST40	*	Nameplate Screw (2)	BN403-302
	for 5RANST6 and 5RANST8	5RAN-AST40	25	Rotor	
	for 5RANST6-EU and 5RANST8-EU	5RAN-EU-AST40		for K ratio (8 teeth)	5RLK-53
				for H, J, L or N ratio (6 teeth)	5RL-53
1	Motor Housing			26 Rear End Plate	5RLK-12
	for 5AHST4, 5AJST4, 5AKST4, 5ALST4, and 5RALST6	5RAK-BST40	†	27 End Plate Retainer	5RLK-118
	for 5AHST4-EU, 5AJST4 -EU, 5AKST4 -EU, 5ALST4 -EU, and 5RALST6 -EU	5RAK-EU-BST40		28 Cylinder	
	for 5ANST6, 5RANST6 and 5RANST8	5RAN-BST40		for 5RALST6, 5RANST6 and 5RANST8	5RLK-3
	for 5ANST6-EU, 5RANST6-EU and 5RANST8-EU	5RAN-EU-BST40		for all other models	5LK-3
*	Warning Label		†	29 Vane Packet (set of 5)	R1401-42-5
	for models ending in -EU	EU-99		30 Front End Plate	5RLK-11
	for all other models	WARNING-7-99	*	31 Front Rotor Bearing Housing	5R-13
3	Grease Fitting	D0F9-879	†	32 Front Rotor Bearing	WWA100-97
†	4 Rear Rotor Bearing	5R-24		33 Bearing Retainer Washer	5R-80
5	Housing Pellet	5R-41	*	34 Cylinder Dowel	R0A1-98
	Throttle Assembly		†	35 Rear End Plate Gasket	5RLK-739
	for 5AHST4	5AH-AT302	*	36 Ring Gear	
	for 5AJST4, 5AKST4, 5ALST4, 5ANST6, 5RALST6, 5RANST6 and 5RANST8	5A-AT302		for 5AKST4 (40 teeth)	5RAK-406A
+	6 Throttle Valve Assembly	5A-BT302	*	37 Rotor Pinion Spacer (for 5AHST4, 5AJST4, 5ANST6, 5RANST6 and 5RANST8)	
*	7 Throttle Valve Face	401-159		for 5AHST4, 5AJST4, 5ALST4 and 5RALST6 (42 teeth)	5RAL-406A
+	8 Throttle Bushing Assembly			for 5ANST6, 5RANST6 and 5RANST8 (42 teeth)	5RAN-406B
	for 5AHST4	5AH-A503	*	38 Rotor Pinion (for 5AHST4, 5AJST4, 5ANST4, 5RANST6 and 5RANST8)	5RAN-17
	for 5AJST4, 5AKST4, 5ALST4 and 5ANST6	5A-A503	*	39 Gear Head Assembly (for 5ANST6, 5RANST6 and 5RANST8)	5RAN-A216
†	9 Throttle Bushing Seal (2)	410-283	*	40 Gear Head Planet Gear (3) (13 teeth) (for 5ANST6, 5RANST6 and 5RANST8)	5RAN-9
10	Throttle Bushing Seat	R18L-14		41 Gear Head Spacer (for 5ANST6, 5RANST6 and 5RANST8)	5R-80
11	Throttle Valve Seat			Spindle Assembly	
	(for 5RALST6, 5RANST6 and 5RANST8)	5RA-303		for 5AHST4	5AH-A8
11A	Trigger	5RA-93		for 5AJST4	5A-A8
+	12 Reverse Valve Assembly (for 5RALST6, 5RANST6 and 5RANST8)	5RA-A329		for 5AKST4, and 5ALST4 and 5RALST6	5AK-A8
13	Reverse Valve Detent Ball	AV1-255		for 5ANST6, 5RANST6 and 5RANST8	5AN-A8
14	Reverse Valve Detent Spring	5RA-664			
15	Reverse Valve Detent Adjusting Screw	5RA-665	42	Spindle	
*	16 Reverse Valve Seal Ring (2)	PS3-67		for 5AHST4 and 5AJST4	5AJ-8
+	17 Reverse Valve Bushing (for 5RALST6, 5RANST6 and 5RANST8)	5RA-330		for 5AKST4, 5ALST4 and 5RALST6	5AK-8
19	Throttle Retaining Pin	R100B-120		for 5ANST6, 5RANST6 and 5RANST8	5AN-8
20	Muffler Assembly				
	for 5AHST4	5A-A123			

## 5 and 5R Air Drill Parts List

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

\* 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.

## 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 [www.irttools.com](http://www.irttools.com).







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