



Form 16572828

Edition 1

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Air Drill

6 Series

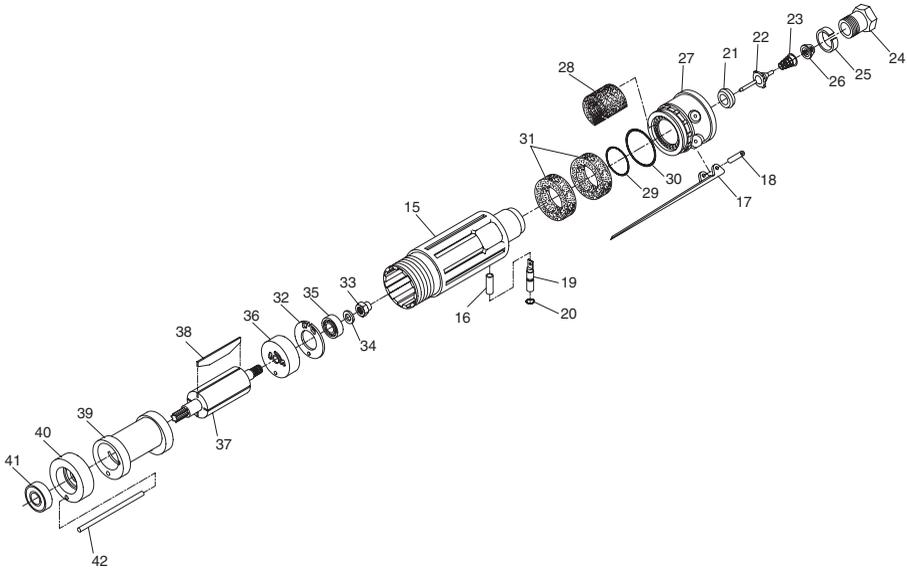
Parts Information



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6 Series Air Drill Power Unit Exploded Diagram



(Dwg. TPA1139-2)

6 Series Air Drill Power Unit Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number	
	Motor Housing Assembly		27	Rear Muffler Assembly	6WS-A23	
	for 6L Models	6LH-A40	†•	28	Muffler Element	3RA-310
	for 6L-EU	6LH-EU-A40	†	29	Silencer Seal Ring	WWV100A1-43
15	Motor Housing		†•	30	Exhaust Deflector Seal	6AH-103
	for 6L Models	6WS-B40	†#	31	Exhaust Silencer (2)	4RL-311
	for 6L-EU Models	6WS-EU-B40	†•	32	Rear End Plate Gasket	6WRT-739
16	Throttle Plunger Bushing	7L-91	†•	33	Rear Rotor Bearing Retaining Nut	6WT-118
*	Warning Label		†•	34	Bearing Thrust Washer	6WT-117
	for models ending in -EU	EU-99	†	35	Rear Rotor Bearing	DG20-22
	for all other models	WARNING-7-99		36	Rear End Plate	6AH-12
17	Throttle Lever	7L-273		37	Rotor	
18	Throttle Lever Pin	7L-120			for H or J ratios (9 teeth)	6AH-53
19	Throttle Plunger Assembly	5LK2C-A94			for JJ ratio (12 teeth)	6AJ-53
†•	20	Throttle Plunger Seal			for K or R ratios (9 teeth)	6AK-53
†	21	Throttle Valve Seat			for L ratio (6 teeth)	6AL-53
†	22	Throttle Valve	†	38	Vane Packet (set of 4 Vanes)	6WT-42-4
†	23	Throttle Valve Spring		39	Cylinder	6AH-3
24	Inlet Bushing	7L-565		40	Front End Plate	6WT-11
25	Inlet Bushing Spacer	7AH-65	†	41	Front Rotor Bearing	R00H-97
†•	26	Air Strainer Screen		42	Cylinder Dowel	6WT-98

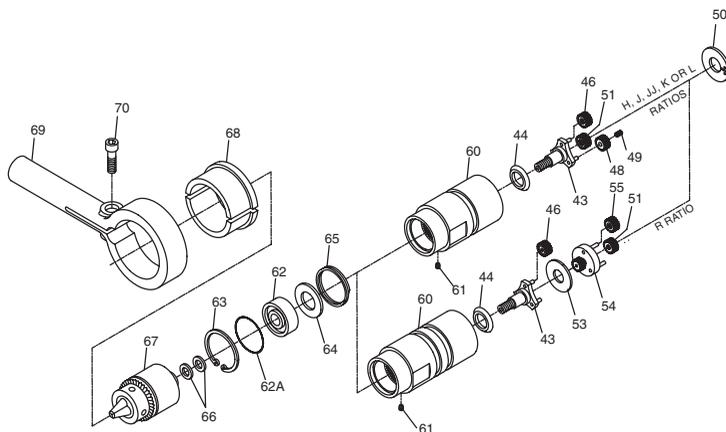
* Not illustrated

† 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.

Model 6L Lever Throttle Drills are furnished with either one or two Exhaust Silencers (Part No. 4RL-311). Exhaust sound levels can be lowered and free speed reduced by adding a Silencer to models having only one Silencer. Exhaust sound levels can be raised and free speed increased by removing a Silencer from models furnished with two Silencers. **Do not use less than one Silencer.**

6 Series Air Drill Gear Unit Exploded Diagram



(Dwg. TPA1140-2)

6 Series Air Drill Gear Unit Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
43	Spindle Assembly		61	Grease Fitting	D0F9-879
	for H ratio	6AH-A8	62A	Spindle Bearing	5A-510
	for JJ ratio	6AJJ-A8	† 62A	Spindle Bearing Seal	6AH-103
	for R ratio	6AP-A8	63	Spindle Bearing Retainer	7L-28
	for K ratio	6AK-A8	64	Grease Shield	5R-701
	for L ratio	6AL-A8	65	Shield Retainer	6LL-343
	for J ratio	6AM-A8	66	Drill Chuck Spacer (2 for R or S ratios; 1 for all other ratios)	5A-90
44	Seal Support	5A-28	67	Drill Chuck	
46	Spindle Planet Gear Assembly (3)			for H, JJ, J, K or L ratio (0 to 1/4" (0 to 6.0 mm) capacity)	R00A-99
	for JJ or R ratios (18 teeth)	6WTP-A10		for R ratio (0 to 3/8" (0 to 10 mm) capacity)	6A-99
	for J ratio (16 teeth)	6WTN-A10			
	for K ratio (20 teeth)	6WTK-A10			
	for L ratio (20 teeth)	6WTL-A10			
48	Spindle Planet Gear (for H ratio) (14 teeth) (3)	6WTM-10	*	Chuck Key	
49	Spindle Planet Gear Bearing (for H ratio) (3)	6WTM-500		for R00A-99 chuck	R00A-J253
50	Gear Retainer	6LL-81		for 6A-99 chuck	R0J-J253
51	Rotor Pinion		68	Dead Handle Adapter (2)	6A-49
	for H ratio (21 teeth)	6WTM-17	69	Dead Handle Assembly	R1A-A48
	for J ratio (17 teeth)	6WTN-17	70	Pinch Bolt	510-638
53	Gear Head Spacer (for R ratio)	6LM-80	*	Chuck Shield Kit (for 1/4" and 5/16" chuck capacity models)	7AH-K309
54	Gear Head		*	Grease Gun	R00A2-228
	for R ratio (marked R)	6LR-216A	*	Piped-Away Exhaust Kit	7L-K284
55	Gear Head Planet Gear Assembly (3)		*	Horizontal Hanger Assembly	7RA-A366
	for R ratio (20 teeth)	6WTK-A10		Horizontal Hanger	7RA-366
□	Gear Case Assembly			Hanger Screw	AL-638
	for H, JJ, J, K and L ratios	6AH-A37	*	Vertical Hanger	7L-365
	for R ratio	6AM-A37			
60	Gear Case		*	Tune-up Kit (includes illustrated items 20, 21, 22, 23, 26, 28, 29, 30, 31 [2], 32, 33, 34, 35, 38, 41 and 62A)	6-DRILLS-TK1
	for H, JJ, J, K and L ratio models ending in -EU	6AH-EU-B37			
	for all H, JJ, J, K and L ratio models	6AH-B37			
	for R ratio model ending in -EU	6AM-EU-B37			
	for all other R ratio models	6AM-B37			

* Not illustrated

† Indicates Tune-up Kit part.

□ The gears used in both the No. 6WTL-A10 and No. 6WTK-A10 Planet Gear Assemblies have 20 teeth. The Gear (Part No. 6WTK-A10) can be distinguished by the annular groove through the middle of the tooth.

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 16572190.
Air Drill Maintenance Information Manual 16572604.

Manuals can be downloaded from www.irttools.com.

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