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Edition 1
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Air Angle Wrench

6W Series

Parts Information



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 **Ingersoll Rand**

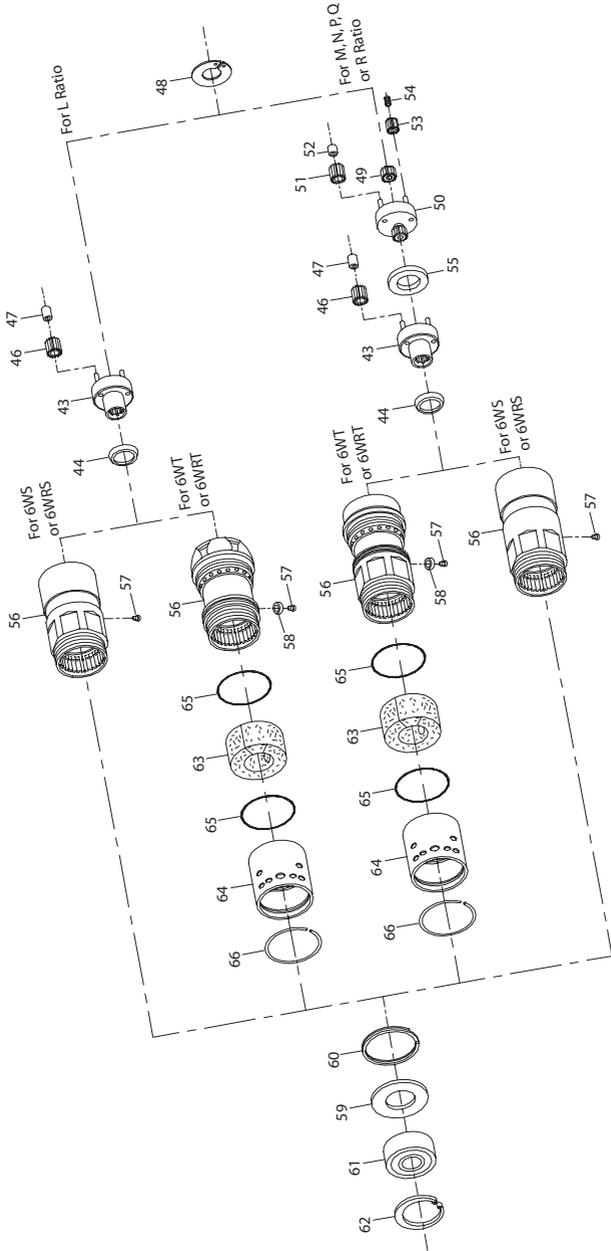
Air Angle Wrench, 6W Series, Power Units Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly		16	Inlet Bushing Spacer	7AH-65
	for 6WRS	6WRS-A40	17	Inlet Bushing	7L-565
	for 6WRS-EU	6WRS-EU-A40	† 18	Air Strainer Screen	ROA2-61
	for 6WRT	6WRT-A40	19	Reverse Valve	
	for 6WRT-EU	6WRT-EU-A40		for 6WRS	55RP-329
	for 6WS	6WS-A40	for 6WRT	6WRT-329	
	for 6WS-EU	6WS-EU-A40	20	Lock Pin Retainer	
for 6WT	6WT-A40	(for 6WRS and 6WRT)		7RL-56	
1	Motor Housing		21	Reverse Valve Lock Pin	
	for 6WRS	6WRS-B40	(for 6WRS and 6WRT)	SPA102R-668	
	for 6WRS-EU	6WRS-EU-B40	22	Retainer Setscrew	
	for 6WRT	6WRT-B40		(for 6WRS and 6WRT)	7RL-669
	for 6WRT-EU	6WRT-EU-B40	23	Reverse Valve Spring	
	for 6WS	6WS-B40		(for 6WRS and 6WRT)	55RP-515
	for 6WS-EU	6WS-EU-B40	24	Shutoff Valve	
for 6WT	6WT-B40	(for 6WRT and 6WT)		6WT-172	
*	for 6WT-EU	6WT-EU-B40	25	Shutoff Valve Stop	
	Warning Label			(for 6WRT and 6WT)	6WT-176
	for models ending in -EU	EU-99	26	Shutoff Valve Spring	
for all other models	WARNING-7-99	(for 6WRT and 6WT)		6WT-171	
2	Throttle Plunger Bushing		Regulator Body Assembly		
	for 6WS	7L-91	(for 6WRT and 6WT)	6WT-A173	
3	for 6WRS, 6WRT and 6WT	5RLK2C-91	27	Regulator Body	6WT-173
	Reverse Valve Bushing Retainer		28	Regulator Spring	6WT-180
3A	(for 6WRS and 6WRT)	6WRT-667	29	Regulator Adjustment Screw	6WT-174
	Reverse Valve Bushing Seal		30	Pressure Port Plug	5081T-266
4	(for 6WRS only)	6WRS-290	31	Bleed Adjustment Screw	6WT-175A
	Throttle Lever	7L-273	32	Regulator Body Seal	
5	Throttle Lever Pin	7L-120		(for 6WRT and 6WT)	182A53-610
† 33	Throttle Plunger Assembly		33	Rear End Plate Gasket	6WRT-739
	for 6WS	5LK2C-A94	† 34	Rear Rotor Bearing Retaining Nut	6WT-118
6	for 6WT, 6WRS or 6WRT	6WT-A94	† 34A	Bearing Thrust Washer	6WT-117
	Throttle Plunger		35	Rear Rotor Bearing	DG20-22
† 7	for 6WS	5LK2C-94A	36	Rear End Plate	
	for 6WT, 6WRS or 6WRT	6WT-94		for 6WRS and 6WRT	6WRT-12
8	Throttle Plunger Seal		37	for 6WS and 6WT	6WT-12
	for 6WS	6LL-259		Rotor	
9	for 6WT, 6WRS or 6WRT	8SL-259	for L ratio (6 teeth)	6WTL-53	
	Throttle Valve Seat	7RAK-303	for M, N and P ratios (9 teeth)	6WTM-53	
10	Throttle Valve Seat Support	7RAK-304	for Q ratio (12 teeth)	6WTQ-53	
	Throttle Valve	7RAK-302	for R ratio (9 teeth)	6WTK-53	
† 11	Throttle Valve Spring	7L-51	† 38	Vane Packet (set of 5 Vanes)	6WT-42-5
† 12	Silencer Seal Ring	WWW100A1-43	39	Cylinder	
	Exhaust Deflector Seal	R00A2-103		for 6WRS and 6WRT	6WRT-3
14	Rear Muffler		for 6WS and 6WT	6WT-3	
	for 6WT or 6WRT	6WT-A23	40	Front End Plate	6WT-11
† 15	for all others	6WS-A23	41	Cylinder Dowel	6WT-98
	Muffler Element	3RA-310	42	Front Rotor Bearing	RO0H-97

* Not Illustrated.

† 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 the symbol (†) for every four tools in service.

Air Wrench, 6W Series, Gear Units Exploded Diagram



(Dwg. TPA1118-1)

Air Angle Wrench, 6W Series, Gear Units Parts List

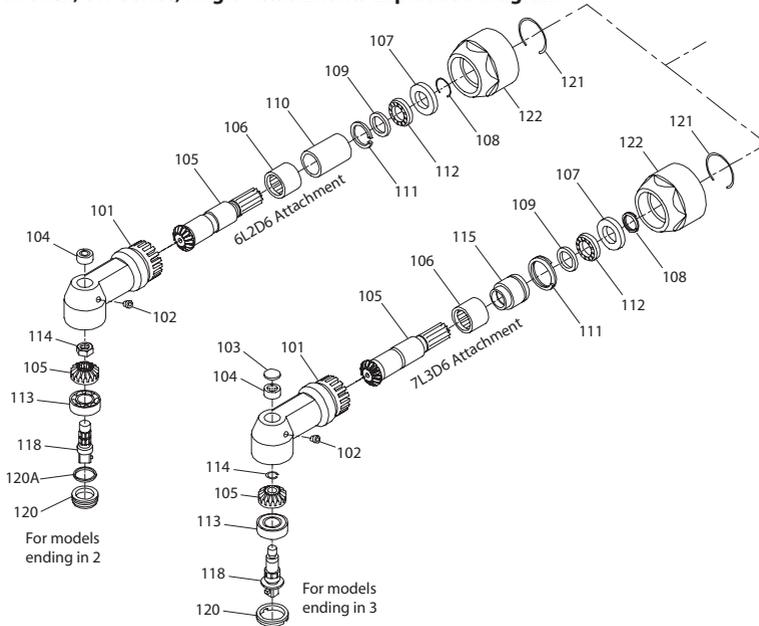
Item	Part Description	Part Number	Item	Part Description	Part Number	
43	Spindle Assembly		55	Gear Head Spacer (for M, N, P, Q or R ratio)	6LM-80	
	for L ratio	6LL-A8		Gear Case Assembly	for 6WS or 6WRS (for L ratio)	6LL-A37
	for M or N ratio	6LN-A8			for 6WS or 6WRS (for M, N, P, Q or R ratio)	6LM-A37
	for P, Q or R ratio	6LP-A8		for 6WT or 6WRT (for L ratio)	6WTL-A37	
44	Seal Support	5RAK-5		for 6WT or 6WRT (for M, N, P, Q or R ratio)	6WTM-A37	
• 46	Spindle Planet Gear Assembly (3)		56	Gear Case		
	for L ratio (20 teeth)	6WTL-A10		for 6WS or 6WRS (for L ratio)	6LL-B37	
	for M or N ratio (16 teeth)	6WTN-A10		for 6WS or 6WRS (for M, N, P, Q or R ratio)	6LM-B37	
	for P, Q or R ratio (15 teeth)	6WTP-A10		for 6WT or 6WRT (for L ratio)	6WTL-B37	
47	Spindle Planet Gear Bearing (1 for each Gear)		57	Grease Fitting	D0F9-879	
	for L ratio	7AJ-500		58	Grease Fitting Collar	
	for M or N ratio	7AH-500			(for 6WT or 6WRT)	6WT-880
	for P, Q or R ratio	WFS182-654	59	Grease Shield	5R-701	
48	Gear Retainer	6LL-81	60	Grease Shield Retainer	6LL-343	
49	Rotor Pinion		61	Spindle Bearing	R1L-24	
	for M ratio	6WTM-17	62	Spindle Bearing Retainer	7L-28	
	for N or P ratio	6WTN-17	† 63	Muffler Element		
50	Gear Head		64	Exhaust Deflector		
	for M ratio (marked M)	6LM-216		(for 6WT or 6WRT)	6WT-23	
	for N ratio (marked N)	6LN-216	† 65	Exhaust Deflector Seal		
	for P ratio (marked P)	6LP-216		(for 6WT or 6WRT) (2)	AG20-103	
	for Q ratio (marked Q)	6LQ-216A		66	Deflector Retaining Ring	
for R ratio (marked R)	6LR-216A		(for 6WT or 6WRT)	6WT-203		
• 51	Gear Head Planet Gear Assembly (3)		*	Horizontal Hanger	6WS-366	
	for N or P ratio (16 teeth)	6WTN-A10	*	Vertical Hanger	7L-365	
	for Q ratio (15 teeth)	6WTP-A10	*	Grease Gun	R000A2-228	
	for R ratio (20 teeth)	6WTK-A10	*	Piped-Away Exhaust Kit (for 6WS or 6WRS)	7L-K284	
52	Gear Head Planet Gear Bearing (1 for each Gear)		*	Tune-up Kit (includes illustrated items 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 32, 33, 34, 34A, 35, 38, 42, 63 and 65[2])	6WT-TK1	
	for N or P ratio	7AH-500				
	for Q ratio	WFS182-654				
	for R ratio	7AJ-500				
53	Gear Head Planet Gear					
	(for M ratio) (3)	6WTM-10				
54	Gear Head Planet Gear Bearing					
	(for M ratio) (3)	6WTM-500				

* Not illustrated.

† 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 the symbol (†) for every four tools in service.

- Although the gears are different, the gears used in both the Spindle Planet Gear Assembly (46) (Part No. 6WTL-A10) and Gear Head Planet Gear Assembly (51) (Part No. 6WTK-A10) have 20 teeth. The Gear (Part No. 6WTK-A10) can be distinguished by the annular groove through the middle of the teeth.

Air Angle Wrench, 6W Series, Angle Attachments Exploded Diagram



(Dwg. TPB781-1)

Air Angle Wrench, 6W Series, Angle Attachments Parts List

Item	Part Description	Part Number	
		for Models Ending in 2	for Models Ending in 3
	Angle Attachment	6L2D6 **	7L3D6
101	Angle Housing Assembly	6L2D-B550	7L3A-B550
102	Grease Fitting	121F9-879	D0F9-879
103	Angle Housing Cap	---	85A32-110
† 104	Upper Spindle Bearing	120A4-603	85A32-603
† 105	Matched Bevel Gear Set	6L2D-A552	7L3A-A552
† 106	Bevel Pinion Bearing	H54U-511B	182A53-606
107	Rear Thrust Bearing Seat	7L2A-682	7L2A-682
† 108	Bearing Seat Retainer	1415A12-6	1415A12-6
109	Front Thrust Bearing Seat	141A12-683	141A12-683
110	Pinion Bearing Spacer	7L2A-165	---
† 111	Bearing Spacer Retainer	RXA21-343	182A53-685
112	Bevel Pinion Thrust Bearing	161A32-105	161A32-105
† 113	Lower Spindle Bearing	6L2D-59	85A32-593
† 114	Bevel Gear Retainer	120A4-578	85A32-578
115	Bevel Pinion Bearing Spacer	---	182A53-165
118	Socket Adapter Spindle Assembly (3/8" Square Drive)	6L2D-A607	85A32-P507-3/8
*	Socket Retaining Spring	401-718	401-718
*	Socket Retaining Pin	5020-716	5020-716
120	Spindle Bearing Cap	6L2D-531	85A32-531
120A	Spindle Seal	6L2D-720	---
121	Coupling Nut Retainer	5C1-29	5C1-29
122	Coupling Nut	7L-27	7L-27
*	Lower Bearing Cap Wrench	141A12-26	85A32-26
∅	Bearing Inserting Tool	7L2A-950	7L3A-950

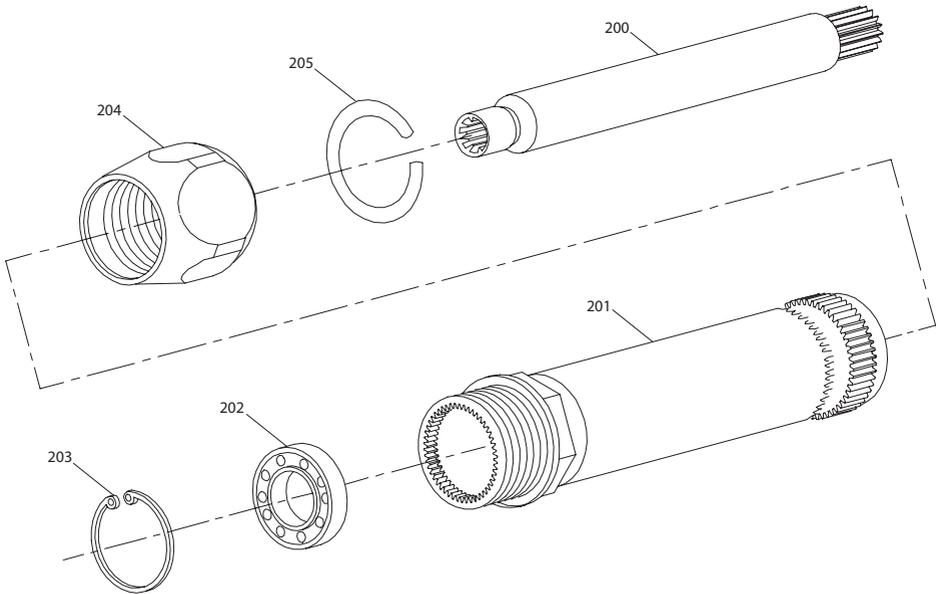
* Not illustrated.

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**The 6L2D6 Angle Attachment is an optional attachment for non-catalogued models rated at less than 8 ft-lbs torque. It is not warranted for applications exceeding 8 ft-lb torque.

∅ Refer to Maintenance Information Manual.

Air Angle Wrench, 6W Series, Angle Housing Extension Exploded Diagram



(Dwg. TPC487)

Air Angle Wrench, 6W Series, Angle Housing Extension Parts List

Item	Parts Description	Part Number
	4" Angle Housing Extension Assembly	6WT-A327-4
200	Extension Arbor	6WT-327-4
201	Arbor Housing	6WT-43-4
202	Arbor Bearing	R1L-24
203	Bearing Retaining Ring	7L-28
204	Coupling Nut	7L-27
205	Coupling Nut Retainer	5C1-29

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 04585006.
 Product Information Manual 03533932.
 Maintenance Information Manual 45612751.

Manuals can be downloaded from www.irtools.com.

www.irttools.com

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