

Air Angle Wrenches

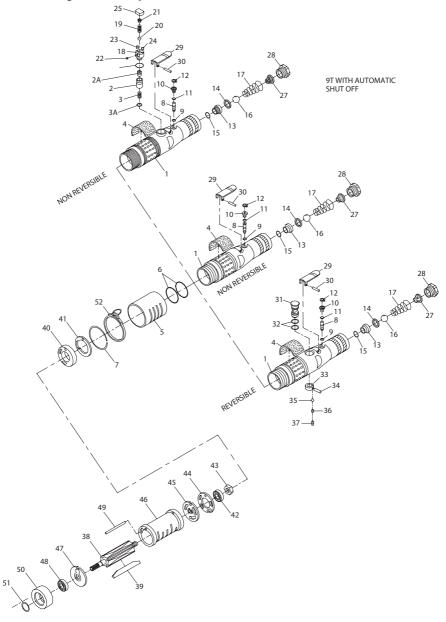
9RS, 9S and 9T Series

Parts Information





9RS, 9S and 9T Angle Wrench - Exploded View



9RS, 9S and 9T Angle Wrench - Parts List

14	Bout Description	Part Nu	Part Number					
ltem	Part Description	9RS, 9S	9T					
1	Motor Housing Assembly							
	Nonreversible							
	for 9S and 9T models ending in 53 or 83	9SL-A40	9TL-A40					
	for 9T models ending in -EU		9TL-EU-A40					
	Reversible							
	for 9R models ending in 53 or 83	9RSL-A40						
	for 9R models ending in -EU	9RSL-EU-A40						
*	Warning Label							
	for models ending in -EU	EU-99	EU-99					
*	for all other models	WARNING-9-99	9TL-A40 9TL-EU-A40					
2	Shutoff Valve		8TL-172					
2A	Shutoff Valve Body		8TL-170					
3	Shutoff Valve Spring		8TL-171					
3A	Shutoff Valve Stop		8TL-176					
• 4	Exhaust Silencer	9SL-311	9SL-311					
• 5	Exhaust Deflector							
	for models ending in -EU	9SL-EU-23	9SL-EU-23					
	for all other models	9SL-23	9SL-23					
• 6	Exhaust Deflector Seal (2)	WBT180N-103	WBT180N-103					
7	Deflector Retaining Ring	9SL-203	9SL-203					
8	Throttle Valve Plunger Assembly	8SL-A302	8SL-A302					
• 9	Throttle Plunger Seal	8SL-259	8SL-259					
10	Throttle Plunger Bushing Assembly	8SL-A503	8SL-A503					
• 11	Throttle Plunger Bushing Seal	405-159	405-159					
12	Throttle Valve Plunger Stop	8SL-305	8SL-305					
13	Throttle Valve Seat Assembly	8SL-A303	8SL-A303					
• 14	Valve Seat Face	8SL-159	8SL-159					
• 15	Valve Seat Seal	AF120-290	AF120-290					
16	Throttle Valve Ball	K6U-941	K6U-941					
17	Throttle Valve Spring	8SL-262	8SL-262					
18	Regulator Body Assembly		8TL-A173					
19	Regulator Spring		8TL-180					
20	Regulator Ball		2U-722					
21	Regulator Adjusting Screw		8TL-174					
22	Lock Screw		8TL-179					
23	Bleed Adjusting Screw		8TL-175					
24	Sensor Port Plug		5081T-266					
25	Regulator Body Cap		8TL-181					
26	Regulator Body Seal		C321-606					

^{*} Not illustrated.

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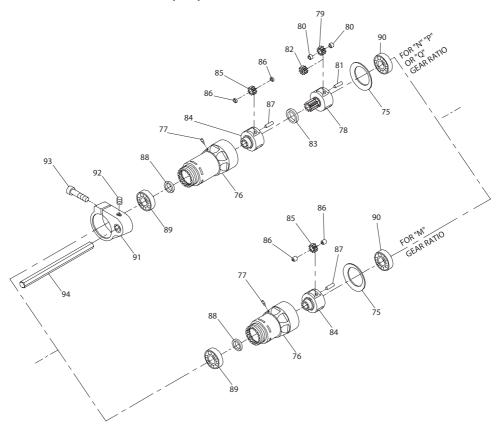
[•] To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (·) for every four tools in service.

9RS, 9S and 9T Angle Wrench - Parts List

	Paut Description	Part Nu	Part Number		
ltem	Part Description	9RS, 9S	9T		
27	Air Strainer	834-61	834-61		
28	Inlet Bushing	88V60-38	88V60-38		
29	Throttle Lever	8SL-273	8SL-273		
• 30	Throttle Lever Retaining Pin	MR-100	MR-100		
31	Reverse Valve Assembly	8RSL-A329			
• 32	Reverse Valve Seal (2)	85H-167			
33	Reverse Valve Knob	8RSL-163			
• 34	Reverse Valve Knob Pin	R100B-120			
• 35	Detent Ball	8RSL-31			
• 36	Detent Spring	5RA-664			
37	Detent Adjusting Screw	8RSL-662			
38	Rotor	9SM-53	9SM-53		
• 39	Vane Packet (set of 5 Vanes)	9SL-42-5	9SL-42-5		
40	Rear Rotor Bearing Support				
	for Nonreversible Sizes	9SL-25	9SL-25		
	for Reversible Sizes	9RSL-25			
• 41	Rear Bearing Support Gasket				
	for Nonreversible Sizes	9SL-283	9SL-283		
	for Reversible Sizes	9RSL-283			
• 42	Rear Rotor Bearing	AG210-24Z	AG210-24Z		
• 43	Rotor Bearing Retaining Nut	8SL-118	8SL-118		
44	Rear End Plate Gasket	9SL-739	9SL-739		
• 45	Rear End Plate	9SL-12	9SL-12		
46	Cylinder				
	for Nonreversible Sizes	9SL-3	9SL-3		
	for Reversible Sizes	9RSL-3			
• 47	Front End Plate	9SL-11	9SL-11		
• 48	Front Rotor Bearing	WFS182-24	WFS182-24		
49	Cylinder Dowel				
	for Nonreversible Sizes	9SL-98	9SL-98		
	for Reversible Sizes	9RSL-98			
50	Front Rotor Bearing Support Assembly	9SL-A26	9SL-A26		
51	Front Rotor Bearing Retainer	AFH120A-362	AFH120A-362		
52	Horizontal Hanger	9SL-366	9SL-366		

[•] 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.

9RS, 9S and 9T Gear Case Assembly - Exploded View

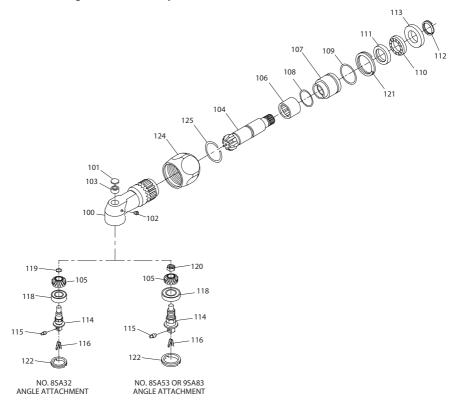


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9RS, 9S and 9T Gear Case Assembly - Parts List

			Part Number					
ltem	Part Description	M Ratio	N Ratio	P Ratio	Q Ratio			
75	Motor Clamp Washer	9SL-207	9SL-207	9SL-207	9SL-207			
76	Gear Case Assembly	9SL-A37	9SN-A37	9SN-A37	9SN-A37			
77	Grease Fitting	D0F9-879	D0F9-879	D0F9-879	D0F9-879			
	Gear Head Assembly		9SN-A216	9SP-A216	9SQ-A216			
78	Gear Head		9SN-216	9SP-216	9SQ-216			
79	Planet Gear Assembly (3)							
	for N ratio gearing (15 teeth, color-coded green)		9SN-A9					
	for P and Q ratio gearing (17 teeth, color-coded red)			9SP-A9	9SP-A9			
80	Planet Gear Bearing (2 for N ratio 1, for P and Q ratios)		8SL-500	WFS182-654	WFS182-654			
81	Planet Gear Shaft (3)		8SN-190	8SL-191	8SL-191			
82	Rotor Pinion		9SN-17					
	for N ratio (color-coded red)			9SP-17	9SP-17			
	for P and Q ratio (color- coded yellow)		9SN-80	9SN-80	9SN-80			
83	Gear Head Spacer	9SM-A108	9SN-A108	9SP-A108	9SQ-A108			
	Spindle Assembly	9SM-108	9SN-108	9SP-108	9SQ-108			
84	Spindle							
85	Spindle Planet Gear Assembly (3)							
	for M ratio gearing (22 teeth, color-coded yellow)	9SM-A10						
	for N ratio gearing (15 teeth, color-coded steel)		9SN-A10					
	for P ratio gearing (16 teeth, color-coded green)			9SP-A10				
	for Q ratio gearing (19 teeth, color-coded red)				9SQ-A10			
86	Planet Gear Bearing	W22-654	9SN-500	W22-654	W22-654			
87	Planet Gear Shaft (3)	9SL-191	9SN-190	9SL-191	9SL-191			
88	Spindle Spacer	WFS182-111	WFS182-111	WFS182-111	WFS182-111			
89	Spindle Bearing (2 for M ratio; 1 for N, P and Q ratios)	R1602-510	R1602-510	R1602-510	R1602-510			
90	Gear Head Bearing		R1602-510	R1602-510	R1602-510			
91	Reaction Bar Adapter Assembly	9SL-A60	9SL-A60	9SL-A60	9SL-A60			
92	Bar Lock Screw	9SL-50	9SL-50	9SL-50	9SL-50			
93	Adapter Bolt	9SL-49	9SL-49	9SL-49	9SL-49			
94	Torque Reaction Bar	9SL-48	9SL-48	9SL-48	9SL-48			

9RS, 9S and 9T Angle Attachment - Exploded View



		Part Number				
Item	Part Description	For Models ending in 32	For Models ending in 53	For Models ending in 83		
100	Angle Attachment	8SA32	8SA53	9SA83		
100	Angle Housing Assembly	8SA32-A550	8SA53-A600	182A83-A600		
101	Angle Housing Cap	8SA32-110	182A53-110	R00B-110		
102	Grease Fitting	D0F9-879	D0F9-879	D0F9-879		
• 103	Upper Spindle Bearing	8SA32-603	182A53-603	34U-367		
•	Matched Gear Set	8SA32-A552	182A53-A602	182A83-A602		
104	Bevel Pinion (not sold separately)					
105	Bevel Gear (not sold separately)					
• 106	Bevel Pinion Bearing	182A53-606	182A53-606	182A83-606		
107	Bevel Pinion Bearing Spacer	182A53-A165	182A53-A165	182A83-A165		
108	Front Seal	R18LF-21	R18LF-21	AFH120A-358		
109	Rear Seal	C321-606	C321-606	C321-606		
110	Bevel Pinion Thrust Bearing	R1610-105	R1610-105	R1610-105		

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9RS, 9S and 9T Angle Attachment - Parts List

Revel Pinion Thrust Washer			Part Number			
112 Bevel Pinion Snap Ring 182A53-689 182A53-689 182A53-689 182A53-689 182A53-689 182A53-689 182A53-589 182A53-689 182A53-689 182A53-607-1/2 182A63-A607-1/2 182A63-A60	Item	Part Description				
113 Bevel Pinion Retainer 182A53-589	111	Bevel Pinion Thrust Washer	182A53-554	182A53-554	182A53-554	
† 114 Socket Adapter Spindle Assembly	112	Bevel Pinion Snap Ring	182A53-689	182A53-689	182A53-689	
3/8"Square Drive (flush spindle)	113	Bevel Pinion Retainer	182A53-589	182A53-589	182A53-589	
+ 1/2"Square Drive (flush spindle) 182A53-P507-1/2 182A83-P507-1/2 182A83-P507-1/2 182A83-P507-1/2 182A83-P507-1/2 182A83-P507-1/2 182A83-P507-1/2 182A83-A607-1/2 182A83-	† 114	Socket Adapter Spindle Assembly				
+ 3/8"Square Drive (recessed spindle) + 1/2"Square Drive (recessed spindle) 182A53-A607-1/2 182A83-A607-1/2 182A83-A607-1/2 115 Socket Retainer 804-716 804-716 804-716 804-716 116 Socket Retainer Spring 5UHD-718 5UHD-718 5UHD-718 5UHD-718 †** Flush Socket Adapter Spindle 13mm Hexagon 182A13MF-807 13mm Hexagon 182A55-807 9/16"Hexagon 182A55-807 15 mm Hexagon 182A56-807 17 mm Hexagon 85A56-807M 11/16"Hexagon 182A87-807 182A87-807 18 mm Hexagon 95A87-807M 95A87-807M 3/4"Hexagon (19 mm) 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear		3/8" Square Drive (flush spindle)				
+ 1/2"Square Drive (recessed spindle) 182A53-A607-1/2 182A83-A607-1/2 182A83-A607-1/2 115 Socket Retainer 804-716 804-716 804-716 116 Socket Retainer Spring 5UHD-718 5UHD-718 5UHD-718 †* Flush Socket Adapter Spindle 1/2"Hexagon 182A54-807 13mm Hexagon 182A15MF-807 9/16"Hexagon 182A55-807 15 mm Hexagon 182A55-807 17 mm Hexagon 8SA56-807 17 mm Hexagon 8SA56-807M 11/16"Hexagon 182A87-807 182A87-807 18 mm Hexagon 95A87-807M 95A87-807M 3/4"Hexagon (19 mm) 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 †119 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer <t< td=""><td>+</td><td>1/2" Square Drive (flush spindle)</td><td>182A53-P507-1/2</td><td>182A83-P507-1/2</td><td>182A83-P507-1/2</td></t<>	+	1/2" Square Drive (flush spindle)	182A53-P507-1/2	182A83-P507-1/2	182A83-P507-1/2	
115 Socket Retainer 804-716 804-716 804-716 116 Socket Retainer Spring 5UHD-718 5UHD-718 117 Flush Socket Adapter Spindle 182A54-807 13mm Hexagon 182A13MF-807 15 mm Hexagon 182A55-807 15 mm Hexagon 182A55-807 15 mm Hexagon 182A55-807 17 mm Hexagon 182A56-807 17 mm Hexagon 182A56-807 17 mm Hexagon 85A56-807M 182A87-807 182A87-807 18 mm Hexagon 182A87-807 182A87-807 18 mm Hexagon 95A87-807M 95A87-807M 3/4" Hexagon (19 mm) 182A88-807 182A88-807 118	+	3/8" Square Drive (recessed spindle)				
The content of the	+	1/2" Square Drive (recessed spindle)	182A53-A607-1/2	182A83-A607-1/2	182A83-A607-1/2	
†* Flush Socket Adapter Spindle 1/2" Hexagon 182A54-807 13mm Hexagon 182A13MF-807 9/16" Hexagon 182A55-807 15 mm Hexagon 182A15MF-807 5/8" Hexagon 182A56-807 17 mm Hexagon 85A56-807M 11/16" Hexagon 18 mm Hexagon 3/4" Hexagon (19 mm) 118 Lower Spindle Bearing 182A53-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	115	Socket Retainer	804-716	804-716	804-716	
1/2"Hexagon 182A54-807 13mm Hexagon 182A513MF-807 9/16"Hexagon 182A55-807 15 mm Hexagon 182A55-807 5/8"Hexagon 182A56-807 17 mm Hexagon 8SA56-807M 11/16"Hexagon 182A87-807 182A87-807 18 mm Hexagon 9SA87-807M 9SA87-807M 3/4"Hexagon (19 mm) 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-	116	Socket Retainer Spring	5UHD-718	5UHD-718	5UHD-718	
13mm Hexagon	†*	Flush Socket Adapter Spindle				
9/16" Hexagon 182A55-807 15 mm Hexagon 182A55-807 15/8" Hexagon 182A56-807 17 mm Hexagon 8SA56-807M 11/16" Hexagon 8SA56-807M 182A87-807 182A87-807 182A87-807 182A87-807 181 mm Hexagon 9SA87-807M 9SA87-807M 9SA87-807M 3/4" Hexagon (19 mm) 182A88-807 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 182A83-593 181 p Bevel Gear Retainer 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-531 182		1/2" Hexagon	182A54-807			
15 mm Hexagon 182A15MF-807 5/8" Hexagon 182A56-807		13mm Hexagon	182A13MF-807			
5/8" Hexagon 182A56-807 17 mm Hexagon 8SA56-807M 11/16" Hexagon 182A87-807 182A87-807 18 mm Hexagon 9SA87-807M 9SA87-807M 3/4" Hexagon (19 mm) 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27		9/16" Hexagon	182A55-807			
17 mm Hexagon 8SA56-807M 11/16"Hexagon 182A87-807 182A87-807 182A87-807 182A87-807 182A87-807 182A87-807 9SA87-807M 9SA87-807M 9SA87-807M 9SA87-807M 3/4"Hexagon (19 mm) 182A88-807 182A88-807 182A88-807 182A83-593 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A83-578 182A53-685		15 mm Hexagon	182A15MF-807			
11/16"Hexagon 182A87-807 182A87-807 18 mm Hexagon 95A87-807M 95A87-807M 3/4" Hexagon (19 mm) 182A88-807 182A88-807 118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27		5/8" Hexagon	182A56-807			
18 mm Hexagon 95A87-807M 95A87-807M 3/4"Hexagon (19 mm) 182A88-807 182A88-807 •118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27		17 mm Hexagon	8SA56-807M			
3/4" Hexagon (19 mm)		11/16" Hexagon		182A87-807	182A87-807	
•118 Lower Spindle Bearing 182A53-593 182A83-593 182A83-593 † 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27		18 mm Hexagon		9SA87-807M	9SA87-807M	
† 119 Bevel Gear Retainer † 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27		3/4" Hexagon (19 mm)		182A88-807	182A88-807	
† 120 Bevel Gear Lock Nut 182A53-578 182A83-578 182A83-578 121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WF5182-26 WF5182-26 WF5182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	•118	Lower Spindle Bearing	182A53-593	182A83-593	182A83-593	
121 Bevel Spacer Retainer 182A53-685 182A53-685 182A53-685 122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	† 119	Bevel Gear Retainer				
122 Spindle Bearing Cap 182A53-531 182A83-531 182A83-531 * Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	† 120	Bevel Gear Lock Nut	182A53-578	182A83-578	182A83-578	
* Spindle Bearing Cap Wrench WFS182-26 WFS182-26 WFS182-26 124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	121	Bevel Spacer Retainer	182A53-685	182A53-685	182A53-685	
124 Attachment Coupling Nut 8SA32-27 8SA32-27 8SA32-27	122	Spindle Bearing Cap	182A53-531	182A83-531	182A83-531	
	*	Spindle Bearing Cap Wrench	WFS182-26	WFS182-26	WFS182-26	
125 Coupling Nut Retainer 182A53-29 182A53-29 182A53-29	124	Attachment Coupling Nut	8SA32-27	8SA32-27	8SA32-27	
	125	Coupling Nut Retainer	182A53-29	182A53-29	182A53-29	

^{*} Not illustrated.

When using Spindle No. 8SA32–P607–3/8, any socket not exceeding 15/16" diameter will fit up into the Angle Housing, thus reducing the overall height by 1/4".

When using Spindle No. 182A53–A607–1/2, any socket not exceeding 1–11/32" diameter will fit up into the Angle Housing, thus reducing the overall height by 1/4".

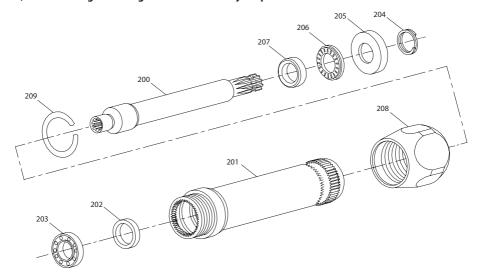
When using Spindle No. 182A83–A607–1/2, any socket not exceeding 1–7/16" diameter will fit up into the Angle Housing, thus reducing the overall height by 1/4".

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[†] When ordering a Socket Adapter Spindle (114) or Flush Socket Spindle, also order a Bevel Gear Retainer (119) or Bevel Gear Lock Nut (120).

⁺ When using Spindle No. 8SA32–P507–3/8, 182A53–P507–1/2, or 182A83–P507–1/2, the rear face of the socket will be flush with the face of the Angle Housing.

9RS, 9S and 9T Angle Housing Extension Assembly - Exploded View



9RS, 9S and 9T Angle Housing Extension Assembly - Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	6" Angle Housing Extension 8SL-A327-6 204		204	Extension Arbor Snap Ring	182A53-689
	Assembly		205	Extension Arbor Retainer	182A53-589
200	Extension Arbor	8SL-327-6	206	Extension Arbor Thrust Bearing	R1610-105
201	Arbor Housing	8SL-43-6			
202	Arbox Consor	WFS182-111	207	Extension Arbor Thrust Washer	182A53-554
202	Arbor Spacer	WF3102-111	208	Coupling Nut	8SA32-27
203	Arbor Bearing	R1602-510	209	Coupling Nut Retainer	182A53-29
			209	Couping Nat Netainer	102/33-23

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 Angle Wrench Product Safety Information Manual 04585006.

Air Angle Wrench Product Information Manuals 80167521, 80167539.

Air Angle Wrench Maintenance Information Manual 16575136.

Manuals can be downloaded from ingersollrandproducts.com.

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Notes:			

Notes:			

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