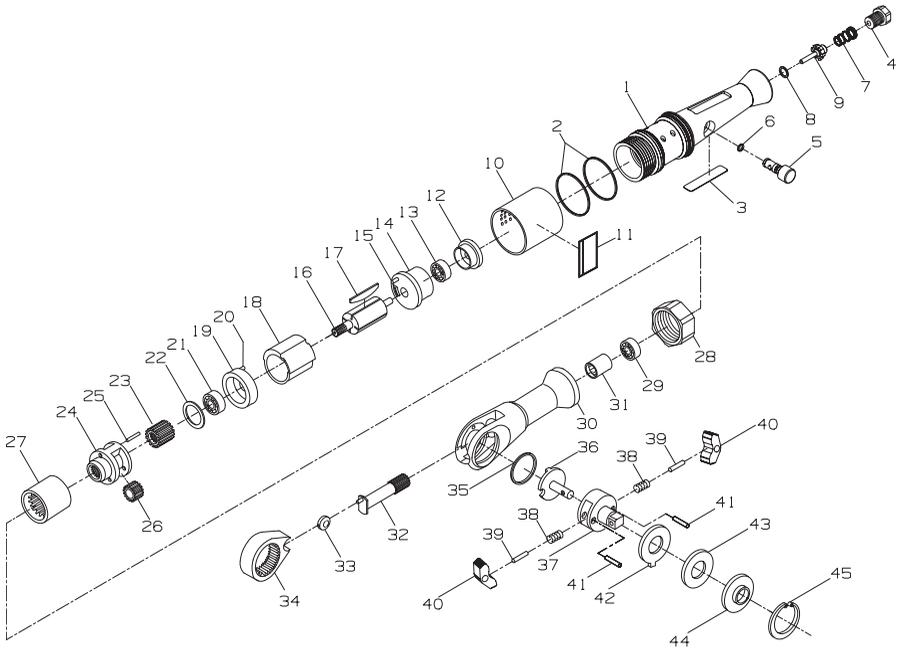


109XP and 1099XP Air Ratchet Wrench Exploded Diagram



(Dwg. TPA1675\_1)

## 109XP and 1099XP Air Ratchet Wrench Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Housing Assembly		25	Planet Gear Shaft (3)	109-524
	for 109XP	109XP-A40	26	Planet Gear (3)	109XP-9
	for 1099XP	1099XP-A40	27	Internal Gear	109XP-406
1	Housing		28	Coupling Nut	109XP-27
2	O-ring (2)	109XP-167	29	Crankshaft Ball Bearing	7804R-510
3	Nameplate			Ratchet Housing Assembly	109-A322
	for 109XP	109XP-301	30	Ratchet Housing	
	for 1099XP	1099XP-301	31	Crankshaft Needle Bearing	107-32
4	Inlet Bushing Assembly	235-565	32	Crankshaft	109-35
	Trigger Assembly	109-A273	33	Drive Bushing	109-36
5	Trigger		34	Yoke	109XP-37
6	Trigger O-ring	251-378	35	Friction Ring	109-427
7	Throttle Valve Spring	235-51	36	Reverse Button	109XP-38
8	Valve Seat	235-303	37	Anvil Assembly	
9	Throttle Valve	235-50		for 109XP	109XP-44
	Exhaust Deflector Assembly	109XP-A123		for 1099XP	1099XP-44
10	Exhaust Deflector		38	Lock Spring and Damper (2)	109XP-A41
11	Warning Label	WARNING-27-99	39	Lock Pin (2)	1107-49
12	End Cap	109-624	40	Pawl (2)	1107-43
13	Rear Rotor Bearing	107-24	41	Pawl Retaining Pin (2)	109XP-178
	Rear End Plate Assembly	7802-A12	42	Spacer	109XP-47
14	Rear End Plate		43	Friction Washer	109-45A
15	Motor Alignment Pin	308-98	44	Thrust Washer	109-46
16	Rotor	109XP-259	45	Retaining Ring	107-426
17	Vanes (set of 4)	7802-42-4		Ratchet Head Kit (includes items 35 through 45)	
18	Cylinder	109-3		for 109XP	109XP-TRK1
	Front End Plate Assembly	109-A11		for 1099XP	1099XP-TRK1
19	Front End Plate			Oil - Ingersoll-Rand No. 10 (4 oz. bottle)	1024
20	Motor Alignment Pin	308-98		Grease	
21	Front Rotor Bearing	109-97		Ingersoll-Rand No. 28 (1 lb can)	28 1 LB
22	Spacer	109-18		Ingersoll-Rand No. 28 (8 lb can)	28 8 LB
23	Inner Gear	1099XP-9		Ingersoll-Rand No. 66 (1 lb can)	66 1 LB
24	Spindle	109XP-8		Ingersoll-Rand No. 66 (8 lb can)	66 8 LB

## 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 Ratchet Wrench Product Safety Information Manual 04580361, Air Ratchet Wrench Product Information Manual 04585048.

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