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## Air Pulse Tools

180PQ1, 280P and 280PQ1

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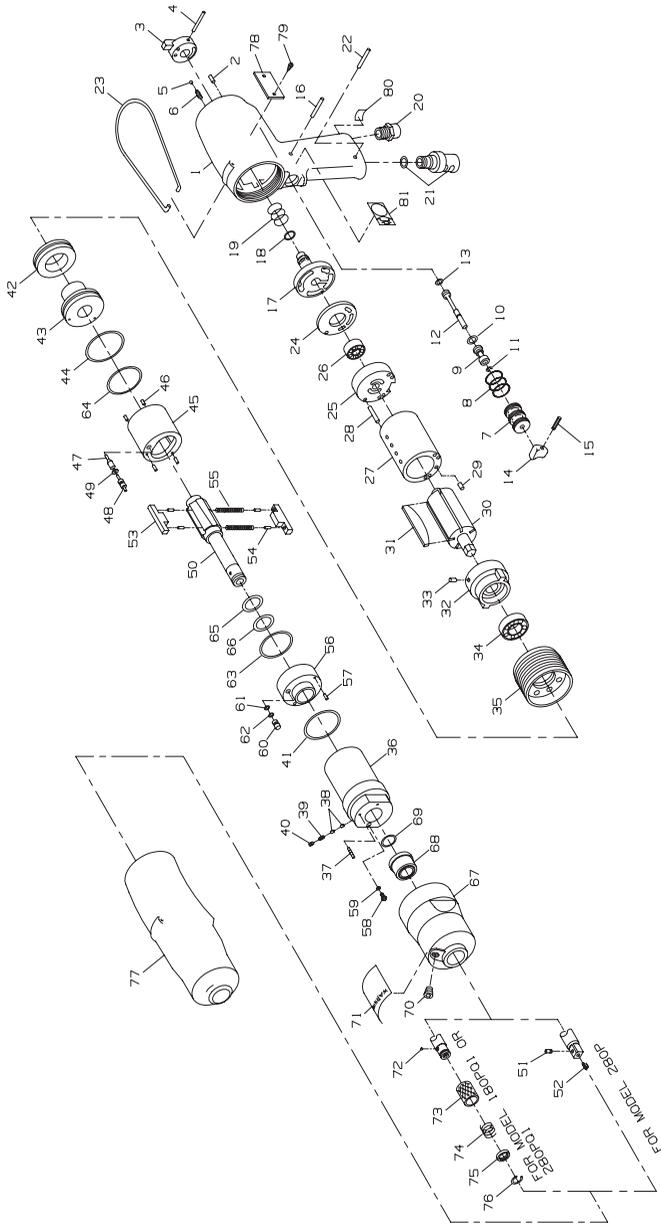
# Parts Information



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 **Ingersoll Rand**<sup>®</sup>

# 180PQ1, 280P and 280PQ1 Impulse Wrench Exploded Diagram



(Dwg. TPA1329)

## 180PQ1, 280P and 280PQ1 Impulse Wrench Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly		37	Torque Adjustment Screw	180PQ-230
	for model 180PQ1	180PQ-A40	38	Adjustment Screw Plug Lock (2)	180PQ-283
	for model 280P or 280PQ1	280PQ-A40	39	Plug Lock Spring	180PQ-219
1	Motor Housing		40	Plug Lock Screw	500A-230
	for model 180PQ1	180PQ-40	41	Liner O-Ring	180PQ-236
	for model 280P or 280PQ1	280PQ-40	42	Housing Cap	180PQ-207
2	Reverse Lever Alignment Pin	EQ104S-299	43	Rear Liner Cover Assembly	180PQ-A212
3	Reverse Lever	180PQ-328	44	Liner Cover O-Ring	180PQ-273
4	Reverse Lever Pin	380PQ-298	45	Liner Assembly	
5	Reverse Lever Detent Ball	EQ104S-333		for model 180PQ1	180PQ-A203A
6	Reverse Lever Detent Spring	180PQ-566		for model 280P or 280PQ1	280PQ-A203A
7	Throttle Bushing Assembly	EQ106P-A503	46	Liner Pin (4)	180PQ-298
8	Throttle Bushing Seal (3)	EQ106P-283	47	Relief Valve	180PQ-298
9	Throttle Valve Assembly	EQ106P-A304		for model 180PQ1	180PQ-222
10	Throttle Valve Seal	EQ106S-159		for model 280P or 280PQ1	280PQ-222
11	Valve Retaining Ring	EQ106P-303	48	Spring Guide Assembly	
12	Throttle Rod Assembly	EQ106P-A302		for model 180PQ1	180PQ-A255
13	Throttle Rod Seal	EQ106P-288		for model 280P or 280PQ1	280PQ-A255
14	Trigger	EQ106P-93	49	Spring Guide Seal	180PQ-272
15	Trigger Pin	EQ106P-265	50	Drive Shaft	
16	Throttle Retaining Pin	180PQ-120		for model 180PQ1	180PQ-626A
17	Reverse Valve Assembly	180PQ-A329		for model 280PQ1	280PQ-626C
18	Reverse Valve Assembly	180PQ-67	50	Drive Shaft Assembly (for model 280P)	280P-A626A
19	Reverse Valve Spring	180PQ-567	51	Socket Retaining Pin	5020-716
20	Inlet Bushing	EQ106S-565	52	Retaining Pin Spring	401-718
21	Exhaust Deflector Assembly	180PQ-A23	53	Blade Assembly (2)	
22	Deflector Retaining Pin	EQ106P-152		for model 180PQ1	180PQ-A627
23	Suspension Bail	EQ106S-365		for model 280P or 280PQ1	280PQ-A627
24	Rear End Plate Spacer	180PQ-43	54	Blade Assembly Pin (2 per assembly)	---
	Rear End Plate Assembly	180PQ-A12	55	Blade Spring (2)	180PQ-568
25	Rear End Plate	180PQ-12	56	Front Liner Cover Assembly	180PQ-A211
+ 26	Rear Rotor Bearing	500A-22	57	Liner Cover Pin	180PQ-232
27	Cylinder Assembly		58	Oil Plug	180PQ-277
	for model 180PQ1	180PQ-A3	59	Oil Plug Seal	EQ110P-288
	for model 280P or 280PQ1	280PQ-A3	60	Oil Stop Cap Assembly	180PQ-A38
28	Rear End Plate Alignment Pin	180PQ-152	61	Stop Cap O-Ring	EQ106S-288
29	Front End Plate Alignment Pin	2400P-152	62	Back-up Ring	380SQ-272
30	Rotor		63	Front Liner Seal	EQ104S-236
	for model 180PQ1	180PQ-53	64	Rear Liner Seal	180PQ-273
	for model 280P or 280PQ1	280PQ-52	65	Drive Shaft Seal	180PQ-271
+ 31	Vane Packet (set of 5 Vanes)		66	Seal Back-up Ring	380PQ-272
	for model 180PQ1	180PQ-42-5		Mechanism Cover Assembly	
	for model 280P or 280PQ1	280PQ-42-5		for model 180PQ1	180PQ-A727
	Front End Plate Assembly	180PQ-A11		for model 280P or 280PQ1	280PQ-727
32	Front End Plate	180PQ-11	67	Mechanism Cover	
33	Alignment Pin	380SQ-298		for model 180PQ1	180PQ-727
+ 34	Front End Plate Bearing	500P-22		for model 280P or 280PQ1	280PQ-727
35	Front End Plate Spacer	180PQ-41	68	Cover Bushing	180PQ-641
	Impulse Unit Drive Assembly		69	Bushing Spacer	180PQ-229
	for model 180PQ1	180PQ-A200	70	Adjustment Hole Plug	180PQ-95
	for model 280P	280P-A200	71	Warning Label	
	for model 280PQ1	280PQ-A200		for models ending in -EU	EU-99
36	Housing Assembly			for all other models	WARNING-2-99
	for model 180PQ1	180PQ-A31			
	for model 280P or 280PQ1	280PQ-A31			

+ Indicates Motor Tune-up Kit part.

## 180PQ1/280P/280PQ1 Impulse Wrench Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Bit Chuck Assembly (for model 180PQ1 or 280PQ1)	180PQ-A667	*	Mechanism Tune-up Kit (includes illustrated items 39, 41, 44, 49, 51, 52, 55, 59, 61, 62, 63, 64, 65, 66 and 69)	180PQ-K600A
72	Bit Retaining Ball	EQ104S-929			
73	Bit Retaining Sleeve	EQ104S-930	*	Fluid Replacement Kit (includes Fluid Syringe, Fill Tube and 4 oz. [31mL] of Replacement Fluid)	EQ106S-K400
74	Retaining Sleeve Spring	EQ104S-931			
75	Spring Seat	EQ104S-932			
76	Retaining Ring	EQ104S-933	*	Replacement Fluid (4 oz.)	EQ106S-400-1
77	Rubber Housing Boot		*	Tool Kit (includes all the specialized tooling required to repair these tools and consists of two Spanner Plugs a Tee Wrench with a special tip, an O-Ring Installer Fixture and a pressing fixture that has a Disassembly Arbor and Pressing Sleeve.)	180PQ-99
	for model 180PQ1	180PQ-2			
	for model 280P or 280PQ1	280PQ-2			
78	Nameplate				
	for model 180PQ1	180PQ-301			
	for model 280P	280P-301			
	for model 280PQ1	280PQ-301			
	for all models ending in -EU	280P-EU-301	*	Square Drive Anvil (for model 180PQ1)	180P-626
79	Nameplate Driver Screw (for model 280P) (2)	EQ106S-322	*	Drive Shaft/Liner Replacement Kit (includes illustrated items 45 and 50)	
80	Oil Daily Label	500P-69		for model 180PQ1	180PQ-K203
81	Two Speed Throttle Label	180PQ-68		for model 280PQ1	280PQ-K203
*	Motor Tune-up Kit (includes illustrated items, 26, 31 and 34)			for model 280P	280P-K203
	for model 180PQ1	180PQ-K500			
	for model 280P or 280PQ1	280PQ-K500			

\* Not illustrated.

## 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 04584983.  
 Product Information Manuals 80167554, 80167562.  
 Product Maintenance Manual 16575433.

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







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