



**47135686**  
Edition 1  
September 2010

## **Air Impulse Wrench (Twin Blade)**

**Model 500PS3, 700PS3 and 900PS4**

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# **Parts Information**



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 **Ingersoll Rand**



**500PS3, 700PS3 and 900PS4, Air Impulse Wrench (Twin Blade) - Parts List**

Item	Part Description	Part Number	Item	Part Description	Part Number
	Motor Housing Assembly		35	Backcap Gasket	
	for Model 500PS3	4351730		for Model 500PS3	4351938
	for Model 700PS3	4354049		for Model 700PS3	4354254
	for Model 900PS4	4354718		for Model 900PS4	4354775
1	Motor Housing		36	Backcap Mounting Screw (3)	
	for Model 500PS3	4351748		for Models 500PS3 and 700PS3	4351946
	for Model 700PS3	4354056		for Model 900PS4	1410P-638
	for Model 900PS4	4354726			
2	Inlet Bushing	EQ1065-565	37	Backcap Mounting Screw Washer (3)	900P-58
3	Suspension Hole Liner	EQ106P-366		Rear End Plate Assembly	
4	Throttle Bushing Assembly	4351763		for Model 500PS3	4351953
5	Throttle Bushing Seal (3)	EQ106P-283		for Model 700PS3	4354098
6	Throttle Valve Assembly	4532503	38	for Model 900PS4	4354783
7	Throttle Valve Seal	100PQ-288		Rear End Plate	
8	Throttle Rod Assembly	EQ106P-A302		for Model 500PS3	4351961
9	Throttle Rod Seal	EQ106S-288		for Model 700PS3	4354106
10	Valve Retaining Ring	EQ106P-303	39	for Model 900PS4	4354791
11	Trigger	EQ106P-93		Rear Rotor Bearing	
12	Trigger Pin	EQ106P-265		for Models 500PS3 and 700PS3	ROA2-22
13	Throttle Retaining Pin	180PQ-120		for Model 900PS4	WFS182-22
14	Reverse Valve Bushing	4351771	40	End Plate Alignment Dowel (2)	EQ106P-99
15	Reverse Valve	4351789	41	Cylinder	
16	Reverse Valve Detent Spring	4351797		for Model 500PS3	EQ108P-3
17	Reverse Valve Detent Ball	EQ1045-929		for Models 700PS3 and 900PS4	EQ110P-3
18	Reverse Valve Retainer	500PQ-303		42	Rotor
19	Reverse Lever Assembly	4351805	for Model 500PS3		4354114
20	Reverse Lever Alignment Pin	4351813	for Models 700PS3 and 900PS4		4354809
21	Reverse Lever Retaining Pin	3000P-152	43		Vane Packet (set of 6 Vanes)
22	Exhaust Deflector	EQ110P-23		for Model 500PS3	EQ106P-42-6
22	Backcap			for Model 700PS3	EQ108P-42-6
	for Model 500PS3	4354072		for Model 900PS4	EQ110P-42-6
	for Models 700PS3 and 900PS4	4354734	44	Front End Plate Assembly	
24	Backcap Rear Spring (12 mm long)	4351839		for Model 500PS3	4351987
25	Backcap Front Spring (15 mm long)	4351847		for Model 700PS3	4354122
26	Control Plate			for Model 900PS4	4354817
	for Models 500PS3 and 700PS3	4351854	45	Front End Plate	
	for Model 900PS4	4354742		for Model 500PS3	4351995
	27	Control Valve Assembly		4351862	for Model 700PS3
28	Control Valve Seal	4351870		for Model 900PS4	4354825
29	Control Bushing Assembly	4351888	46	Front Rotor Bearing	
	for Models 500PS3 and 700PS3			for Models 500PS3 and 700PS3	EQ106S-22
	for Model 900PS4			for Model 900PS4	R38P-606
30	Control Bushing Seal	180PQ-288	46	End Plate Alignment Dowel	EQ106P-99
31	Control Bushing Ball (35 mm dia) (3)	4351904	47	Liner Housing	
32	Control Shaft Spring	4351912		for Model 500PS3	EQ208S-240
33	Control Shaft Assembly			for Model 700PS3	EQ210S-240
	for Model 500PS3	4351920		for Model 900PS4	EQ112P-240
	for Model 700PS3	4354080	48	Liner Housing Seal (2)	
for Model 900PS4	4354767	for Models 500PS3 and 700PS3		EQ208S-236	
34	Control Shaft Seal	EQ110P-288		for Model 900PS4	EQ212P-236

## 500PS3, 700PS3 and 900PS4, Air Impulse Wrench (Twin Blade) - Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
49	Housing Cap		66	Drive Shaft Assembly	
	for Models 500PS3 and 700PS3	EQ1065-207		for Model 500PS3	4352134
	for Model 900PS4	EQ110P-207		for Model 700PS3	4354189
50	Rear Liner Cover			for Model 900PS4	4354890
	for Models 500PS3 and 700PS3	4352001	67	Socket Retaining Pin	5020-716
	for Model 900PS4	4354833	68	Retaining Pin Spring	401-718
51	Rear Liner Cover Seal		69	Drive Shaft Blade (2)	
	for Models 500PS3 and 700PS3	EQ2085-237		for Model 500PS3	EQ2085-220
	for Model 900PS4	EQ212P-237		for Model 700PS3	700PS3-220
52	Sensor Assembly	4352019		for Model 900PS4	EQ212P-220
53	Sensor Seal	EQ1045-50	70	Blade Spring (2)	
54	Sensor Seal Back-up O-Ring	4352035		for Model 500PS3	4352142
55	Liner Assembly			for Model 700PS3	4354205
	for Model 500PS3	4352043	for Model 900PS4	EQ212P-219	
	for Model 700PS3	4354148	71	Front Liner Cover Assembly	
	for Model 900PS4	4354841		for Models 500PS3 and 700PS3	4352159
56	Liner Alignment Pin (4)		for Model 900PS4	4354908	
	for Models 500PS3 and 700PS3	EQ2085-298	72	Adjustment Screw (2)	
	for Model 900PS4	EQ212P-298		for Models 500PS3 and 700PS3	EQ2085-230
57	Torque Valve Piston		for Model 900PS4	1900P-230	
	for Model 500PS3	EQ2085-222	73	Oil Plug	EQ1065-277
	for Model 700PS3	EQ2105-222	74	Oil Plug Seal Support	EQ1065-229
	for Model 900PS4	EQ212P-222	75	Oil Plug Seal	EQ1065-228
58	Piston Stop Assembly		76	Drive Shaft O-ring	
	for Model 500PS3	4352068		for Models 500PS3 and 700PS3	EQ2085-271
	for Model 700PS3	4354155		for Model 900PS4	EQ110P-271
	for Model 900PS4	4354858	77	Seal Back-Up Ring	
59	Piston Stop Seal			for Models 500PS3 and 700PS3	EQ1065-272
	for Models 500PS3 and 700PS3	EQ106P-288	for Model 900PS4	EQ110P-272	
	for Model 900PS4	EQ110P-288	78	Front Liner Cover Piston Seal (2)	
60	Check Valve Assembly			for Models 500PS3 and 700PS3	EQ2085-238
	for Models 500PS3 and 700PS3	4352084		for Model 900PS4	EQ212P-238
	for Model 900PS4	4354866	79	Front Mechanism Spacer	
61	Check Valve Front Seal			for Model 500PS3	---
	for Models 500PS3 and 700PS3	EQ106P-288		for Model 700PS3	---
	for Model 900PS4	EQ110P-288	for Model 900PS4	4354916	
62	Check Valve Rear Seal		80	Hammer Case Gasket	
	for Models 500PS3 and 700PS3	180PQ-272		for Model 500PS3	4352175
	for Model 900PS4	EQ106P-288		for Model 700PS3	4354213
63	Check Valve Piston			for Model 900PS4	4354924
	for Model 500PS3	4352100	81	Drive Shaft Packing	
	for Model 700PS3	4354163		0.2 mm thick	
for Model 900PS4	4354874	for Models 500PS3 and 700PS3		4352183	
64	Piston Spring			for Model 900PS4	4354932
	for Model 500PS3	4352118		0.3 mm thick	
	for Model 700PS3	4354171		for Models 500PS3 and 700PS3	4352191
65	Check Valve Ball		for Model 900PS4	4354940	
	for Models 500PS3 and 700PS3	4351904	0.5 mm thick		
	for Model 900PS4	500P-333	for Models 500PS3 and 700PS3	4352209	
			for Model 900PS4	4354957	

## 500PS3, 700PS3 and 900PS4, Air Impulse Wrench (Twin Blade) - Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
	Hammer Case Assembly		90	Oil Daily Label	500P-69
	for Model 500PS3	4352217	91	Warning Label	
	for Model 700PS3	4354221		for all models ending in -EU	EU-99
	for Model 900PS4	4354965		for all other models	WARNING-2-99
82	Hammer Case		*	Hex Wrench	
	for Model 500PS3	4352225		1.5 mm	
	for Model 700PS3	4354239		for Models 500PS3 and 700PS3	55P3-900
	for Model 900PS4	4354973		for Model 900PS4	---
83	Hammer Case Bearing			2.0 mm	
	for Models 500PS3 and 700PS3	4352233		for Models 500PS3 and 700PS3	---
	for Model 900PS4	4354981		for Model 900PS4	4355012
84	Adjustment Hole Plug	180PQ-95		5.0 mm	4352258
	85 Hammer Case Cap Screw (3)			*	Repair Fixture
	for Models 500PS3 and 700PS3	500PQ-638		* Fluid Replacement Kit	EQ106S-K400
	for Model 900PS4	1410P-638		Replacement Fluid (4 oz)	EQ106S-400-1
	86 Cap Screw Lock Washer (3)			*	Replacement Fluid (1 gal)
87	Nameplate			* Tool Kit (includes all the specialized tooling required to repair these tools and consists of a Spanner Plug, Threaded Tee Wrench, O-ring Installer and a pressing fixture that has a Disassembly Arbor and Pressing Sleeve)	700A-99
	for Model 500PS3	4351755			
	for Model 700PS3	4354247			
	for Model 900PS4	4354999			
88	Nameplate Screw (4)	EQ106S-322			
89	Two Speed Trigger Label	180PQ-68			

\* 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 04580916.

Product Information Manual 47133053.

Maintenance Information Manual 47109533.

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

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**Notes:**

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