



16574766
Edition 2
October 2007

Air Pulse Tools

40PSQ1, 45PS3, 45PSQ1, 55PS3, 55PSQ1,
70PS3 and 90PS4

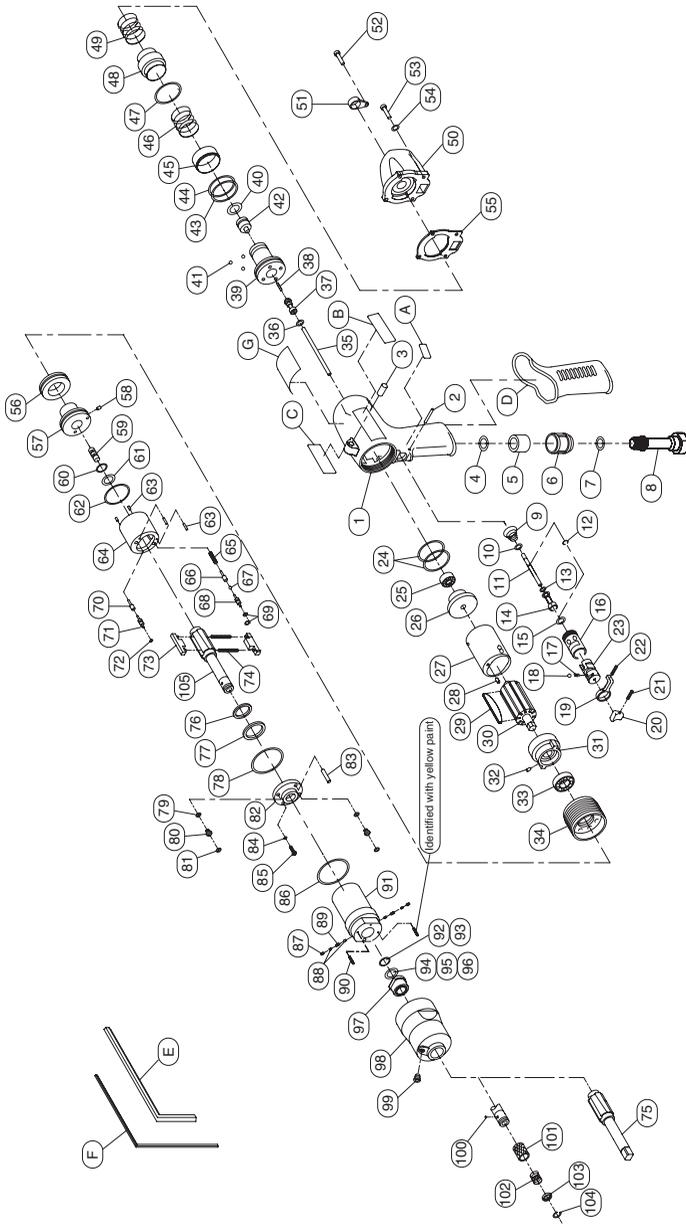
Parts Information



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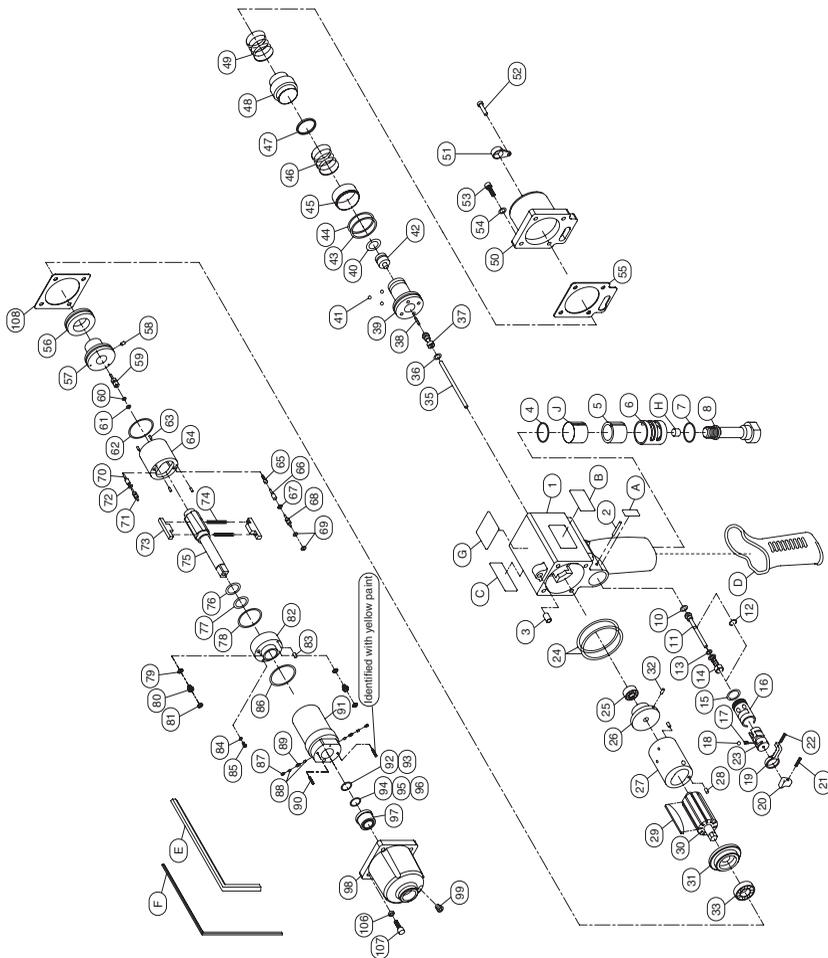
 **Ingersoll Rand**

40PSQ1, 45PS3, 45PSQ1, 55PS3 and 55PSQ1 Twin Blade Shut-Off Impulse Wrench Exploded Diagram



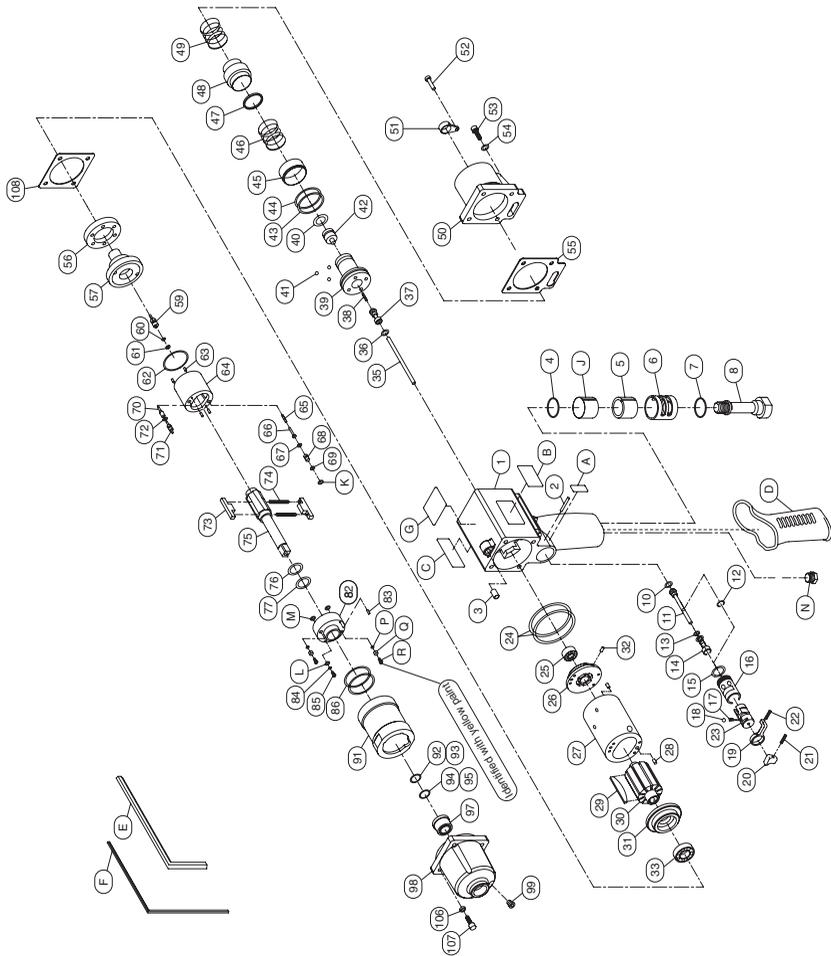
(Dwg. TPA1730-1)

70PS3 Twin Blade Shut-Off Impulse Wrench Exploded Diagram



(Dwg. TPA1732-1)

90PS4 Twin Blade Shut-Off Impulse Wrench Exploded Diagram



(Dwg. TPA1733-1)

**40PSQ1, 45PS3, 45PSQ1, 55PS3, 55PSQ1, 70PS3 and 90PS4 Twin Blade Shut-Off Impulse Wrench
Parts List**

Item	Part Description	Model 40PSQ1	Model 45PS3	Model 45PSQ1	Model 55PS3	Model 55PSQ1	Model 70PS3	Model 90PS4
---	Housing Assembly	40PSQ1-A40	55PS3-A40	55PS3-A40	55PS3-A40	55PS3-A40	70PS3-A40	90PS4-A40
1	Housing	---	---	---	---	---	---	---
G	Warning Label	WARNING- 27-99						
2	Pin	45PS3-297	45PS3-297	45PS3-297	45PS3-297	45PS3-297	100PQ-297	100PQ-297
3	Pin	70P3-232						
S	Exhaust Bushing	40PSQ1-233	40PSQ1-233	N/A	N/A	N/A	N/A	N/A
4	O-Ring	100PQ-236						
5	Silencer	45P3-506	45P3-506	45P3-506	45P3-506	45P3-506	70P3-505	70P3-505
J	Silencer	N/A	N/A	N/A	N/A	N/A	70P3-506	70P3-506
6	Exhaust Cover	45P3-978	45P3-978	45P3-978	45P3-978	45P3-978	70P3-978	70P3-978
H	Socket Plug	N/A	N/A	N/A	N/A	N/A	70PS3-34	N/A
7	Seal	EQ106P-283						
8	Hose Joint Assembly	45PS3-A979	45PS3-A979	45PS3-A979	45PS3-A979	45PS3-A979	70PS3-A979	70PS3-A979
9	Spring	45PS3-52	45PS3-52	45PS3-52	45PS3-52	45PS3-52	N/A	N/A
N	Oil Plug	N/A	N/A	N/A	N/A	N/A	N/A	90P4-221
---	Throttle Rod Assembly	EQ112P- A302	EQ112P- A302	EQ112P- A302	EQ112P- A302	EQ112P- A302	70PS3-A302	70PS3-A302
10	O-Ring	EQ106S-288						
11	Throttle Rod	---	---	---	---	---	---	---
12	Snap Ring	EQ106P-303						
---	Throttle Rod Bushing Assembly	40PSQ1- A303	40PSQ1- A303	40PSQ1- A303	40PSQ1- A303	40PSQ1- A303	70PS3-A503	70PS3-A503
13	O-Ring	100PQ-288	100PQ-288	100PQ-288	100PQ-288	100PQ-288	70PS3-270	70PS3-270
14	Throttle Rod Bushing	---	---	---	---	---	---	---
---	Throttle Bushing Assembly	55P3-A503	55P3-A503	55P3-A503	55P3-A503	55P3-A503	70P3-A503	70P3-A503
15	Seal	EQ106P-283	EQ106P-283	EQ106P-283	EQ106P-283	EQ106P-283	55P3-303	55P3-303
16	Throttle Bushing	---	---	---	---	---	---	---
17	Spring	100PQ-568						
18	Ball	EQ104S-929						
19	Reverse Lever	45PS3-328	45PS3-328	45PS3-328	45PS3-328	45PS3-328	100PQ-328	100PQ-328
20	Throttle Knob	EQ106P-93	EQ106P-93	EQ106P-93	EQ106P-93	EQ106P-93	70P3-328	70P3-328
21	Pin	EQ106P-265						
22	Roll Pin	180SQ-152						
23	Reverse Valve	55PS3-329	55PS3-329	55PS3-329	55PS3-329	55PS3-329	70PS3-329	70PS3-329
24	O-Ring (qty 2)	45P3-223	55P3-223	55P3-223	55P3-223	55P3-223	70P3-236	90P4-236
D	Grip	55P3-2	55P3-2	55P3-2	55P3-2	55P3-2	70P3-2	70P3-2
---	Rear End Plate Assembly	40PSQ1-A12	45PS3-A12	45PS3-A12	55PS3-A12	55PS3-A12	70PS3-A12	90PS4-A12
25	Bearing	40PSQ1-22	45PS3-22	45PS3-22	45PS3-22	45PS3-22	70PS3-22	70PS3-22
26	Rear End Plate	45P3-12	45PS3-12	45PS3-12	55PS3-12	55PS3-12	70PS3-12	90PS4-12
---	Cylinder Assembly	40PSQ1-A3	45PS3-A3	45PS3-A3	55PS3-A3	55PS3-A3	70PS3-A3	90P4-A3
27	Cylinder	---	---	---	---	---	---	---
28	Pin (qty 2)	45P3-297	380SQ-298	380SQ-298	380SQ-298	380SQ-298	380SQ-298	380SQ-298
29	Vane Pack	40PSQ1-42-9	45PS3-42-9	45PS3-42-9	55PS3-42-9	55PS3-42-9	70P3-42-9	90P4-42-9
30	Rotor	40PSQ1-53	45PS3-53	45PS3-53	55PS3-53	55PS3-53	70PS3-53	90PS4-53
---	Front End Plate Assembly	40PSQ1-A11	55PS3-A11	55PS3-A11	55PS3-A11	55PS3-A11	70PS3-A11	90PS4-A11
31	Front End Plate	40PSQ1-11	55PS3-11	55PS3-11	55PS3-11	55PS3-11	70PS3-11	90PS4-11
32	Pin (qty 2)	45P3-297	380SQ-298	380SQ-298	380SQ-298	380SQ-298	70P3-297	70P3-297
33	Ball Bearing	55PS3-105	55PS3-105	55PS3-105	55PS3-105	55PS3-105	55PS3-105	90PS4-12
34	Spacer	40PSQ1-10	55P3-10	55P3-10	55P3-10	55P3-10	N/A	N/A
35	Rod	40PSQ1-900	55PS3-900	55PS3-900	55PS3-900	55PS3-900	70PS3-900	90PS4-900
---	Cover Assembly	40PSQ1-A202	55PS3-A202	55PS3-A202	55PS3-A202	55PS3-A202	70PS3-A202	90PS4-A202

**40PSQ1, 45PS3, 45PSQ1, 55PS3, 55PSQ1, 70PS3 and 90PS4 Twin Blade Shut-Off Impulse Wrench
Parts List**

Item	Part Description	Model 40PSQ1	Model 45PS3	Model 45PSQ1	Model 55PS3	Model 55PSQ1	Model 70PS3	Model 90PS4
---	Control Shaft Assembly	55PS3-A69	55PS3-A69	55PS3-A69	55PS3-A69	55PS3-A69	70PS3-A69	70PS3-A69
36	Seal	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288
37	Control Shaft	55PS3-69	55PS3-69	55PS3-69	55PS3-69	55PS3-69	70PS3-69	70PS3-69
38	Spring	45PS3-51	45PS3-51	45PS3-51	45PS3-51	45PS3-51	90PS4-51	90PS4-51
---	Control Bushing Assembly	55PS3-A333	55PS3-A333	55PS3-A333	55PS3-A333	55PS3-A333	70PS3-A333	70PS3-A333
39	Control Bushing	55PS3-333	55PS3-333	55PS3-333	55PS3-333	55PS3-333	70PS3-333	70PS3-333
40	O-Ring	180PQ-288	180PQ-288	180PQ-288	180PQ-288	180PQ-288	180PQ-288	180PQ-288
41	Balls (qty 3)	04351904	04351904	04351904	04351904	04351904	04351904	04351904
42	Bolt	55PS3-683	55PS3-683	55PS3-683	55PS3-683	55PS3-683	55PS3-683	55PS3-683
43	Seal	45PS3-773	45PS3-773	45PS3-773	45PS3-773	45PS3-773	70PS3-773	70PS3-773
44	Seal	45PS3-774	45PS3-774	45PS3-774	45PS3-774	45PS3-774	70PS3-774	70PS3-774
45	Control Plate	55PS3-485	55PS3-485	55PS3-485	55PS3-485	55PS3-485	70PS3-485	70PS3-485
46	Spring	45PS3-152	45PS3-152	45PS3-152	45PS3-152	45PS3-152	04351847	04351847
---	Control Valve Assembly	55PS3-A526	55PS3-A526	55PS3-A526	55PS3-A526	55PS3-A526	70PS3-A526	70PS3-A526
47	O-Ring	90P4-272	90P4-272	90P4-272	90P4-272	90P4-272	04351870	04351870
48	Control Valve	55PS3-526	55PS3-526	55PS3-526	55PS3-526	55PS3-526	70PS3-526	70PS3-526
49	Spring	45PS3-151	45PS3-151	45PS3-151	45PS3-151	45PS3-151	04351839	4351839
50	Cover	40PSQ1-202	55PS3-202	55PS3-202	55PS3-202	55PS3-202	70PS3-202	90PS4-202
51	Cover	45PS3-144	45PS3-144	45PS3-144	45PS3-144	45PS3-144	45PS3-144	45PS3-144
52	Screw	45PS3-170	45PS3-170	45PS3-170	45PS3-170	45PS3-170	45PS3-170	45PS3-170
53	Screw (qty 4)	700P-638	45PS3-638	45PS3-638	45PS3-638	45PS3-638	04351946	04351946
54	Washer (qty 4)	500P-58	45PS3-248	45PS3-248	45PS3-248	45PS3-248	900P-58	900P-58
55	Gasket	45P3-739	55PS3-739	55PS3-739	55PS3-739	55PS3-739	70PS3-739	90PS4-739
56	Liner Cap	40PSQ1-207	180PQ-207	180PQ-207	180PQ-207	180PQ-207	380PQ-207	90PS4-207
57	Cover	40PSQ1-212	55PS3-212	55PS3-212	55PS3-212	55PS3-212	70PS3-212	90PS4-212
58	Screw	45PS3-55	45PS3-55	45PS3-55	45PS3-55	45PS3-55	45PS3-55	N/A
---	Sensor Assembly	55PS3-A101	55PS3-A101	55PS3-A101	55PS3-A101	55PS3-A101	55PS3-A101	55PS3-A101
59	Sensor	55PS3-101	55PS3-101	55PS3-101	55PS3-101	55PS3-101	55PS3-101	55PS3-101
60	Backup O-Ring	45PS3-728	45PS3-728	45PS3-728	45PS3-728	45PS3-728	45PS3-728	45PS3-728
61	O-Ring	45PS3-75	45PS3-75	45PS3-75	45PS3-75	45PS3-75	45PS3-75	45PS3-75
62	O-Ring	45P3-273	180PQ-273	180PQ-273	180PQ-273	180PQ-273	EQ106S-236	90P4-237
---	Liner Assembly	40PSQ1-A203	55PS3-A203	55PS3-A203	55PS3-A203	55PS3-A203	70PS3-A203	90P4-A203
63	Pin (qty 4)	180PQ-298	180PQ-298	180PQ-298	180PQ-298	180PQ-298	70P3-298	90P4-297
64	Liner	---	---	---	---	---	---	---
65	Spring	40PSQ1-260	45PS3-260	45PS3-260	45PS3-260	45PS3-260	70PS3-260	90PS4-260
66	Spring Guide	55PS3-355	55PS3-355	55PS3-355	55PS3-355	55PS3-355	70PS3-355	90PS4-355
67	Ball	40PSQ1-333	40PSQ1-333	40PSQ1-333	40PSQ1-333	40PSQ1-333	40PSQ1-333	500P-333
---	Check Valve Assembly	40PSQ1-A265	55PS3-A265	55PS3-A265	55PS3-A265	55PS3-A265	55PS3-A265	90PS4-A265
68	Check Valve	40PSQ1-265	55PS3-265	55PS3-265	55PS3-265	55PS3-265	55PS3-265	90PS4-265
69	O-Ring (qty 2)	180PQ-272	180PQ-272	180PQ-272	180PQ-272	180PQ-272	180PQ-272	180PQ-272
K	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	EQ106S-288
70	Relief Valve	180PQ-222	180PQ-222	180PQ-222	180PQ-222	180PQ-222	380PQ-222	90P4-222
---	Spring Guide Assembly	40PSQ1-A255	180PQ-A255	180PQ-A255	180PQ-A255	180PQ-A255	70PS3-A255	EQ208S-A255
71	Spring Guide	---	---	---	---	---	---	---
72	O-Ring (qty 2)	180PQ-272	180PQ-272	180PQ-272	180PQ-272	180PQ-272	180PQ-272	EQ106S-288
---	Blade Assembly (qty 2)	N/A	180PQ-A627	180PQ-A627	180PQ-A627	180PQ-A627	380PQ-A627	N/A
73	Blade (qty 2)	45P3-220	---	---	---	---	---	90P4-220
74	Spring (qty 2)	45P3-568	180PQ-568	180PQ-568	180PQ-568	180PQ-568	380PQ-568	EQ212P-219
---	Shaft Assembly	N/A	45PS3-A626	N/A	45PS3-A626	N/A	70PS3-A626	90PS4-A626
75	Shaft	N/A	---	N/A	---	N/A	---	---
75a	Pin	---	45PS3-98	---	45PS3-98	---	45PS3-98	90PS4-98
75b	Spring	---	45PS3-718	---	45PS3-718	---	45PS3-718	90PS4-718
75c	Blind Cap	---	45PS3-202	---	45PS3-202	---	45PS3-202	90PS4-202
76	O-Ring	40PSQ1-271	55P3-271	55P3-271	55P3-271	55P3-271	55P3-271	90PS4-797
77	Backup O-Ring	40PSQ1-224	55P3-224	55P3-224	55P3-224	55P3-224	55P3-224	90P4-224
M	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	EQ208S-238
78	O-Ring	N/A	EQ104S-236	EQ104S-236	EQ104S-236	EQ104S-236	380PQ-288	N/A

40PSQ1, 45PS3, 45PSQ1, 55PS3, 55PSQ1, 70PS3 and 90PS4 Twin Blade Shut-Off Impulse Wrench Parts List

Item	Part Description	Model 40PSQ1	Model 45PS3	Model 45PSQ1	Model 55PS3	Model 55PSQ1	Model 70PS3	Model 90PS4
---	Oil Stop Cap Assembly (qty 2)	180PQ-A38	180PQ-A38	180PQ-A38	180PQ-A38	180PQ-A38	180PQ-A38	N/A
79	Seal (qty 2)	EQ106S-288	EQ106S-288	EQ106S-288	EQ106S-288	EQ106S-288	EQ106S-288	N/A
80	Oil Stop Cap (qty 2)	---	---	---	---	---	---	N/A
81	Backup O-Ring (qty 2)	380SQ-272	380SQ-272	380SQ-272	380SQ-272	380SQ-272	380SQ-272	N/A
---	Front Liner Cover Assembly	40PSQ1-A211	55PS3-A211	55PS3-A211	55PS3-A211	55PS3-A211	70PS3-A211	90PS4-A211
82	Front Liner Cover	---	---	---	---	---	---	---
83	Pin	180PQ-232	180PQ-232	180PQ-232	180PQ-232	180PQ-232	180PQ-232	90P4-235
P	Bushing (qty 2)	N/A	N/A	N/A	N/A	N/A	N/A	90PS4-649
Q	Bushing (qty 2)	N/A	N/A	N/A	N/A	N/A	N/A	90PS4-641
R	Screw (qty 2)	N/A	N/A	N/A	N/A	N/A	N/A	90P4-230
L	Washer	N/A	N/A	N/A	N/A	N/A	N/A	EQ106S-229
84	O-Ring	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ110P-288	EQ106S-228
85	Oil Plug	180PQ-277	180PQ-277	180PQ-277	180PQ-277	180PQ-277	180PQ-277	EQ106S-277
---	Liner Case Assembly	40PSQ1-A31	55PS3-A31	55PS3-A31	55PS3-A31	55PS3-A31	70PS3-A31	N/A
86	O-Ring	40PSQ1-236	180PQ-236	180PQ-236	180PQ-236	180PQ-236	EQ208S-237	EQ106S-36
87	Screw (qty 2)	40PSQ1-230	70P3-230	70P3-230	70P3-230	70P3-230	70P3-230	N/A
88	Rubber Plate (qty 4)	40PSQ1-225	60P3-283	60P3-283	60P3-283	60P3-283	60P3-283	N/A
89	Spring (qty 2)	180PQ-219	70P3-219	70P3-219	70P3-219	70P3-219	70P3-219	N/A
90	Screw (qty 2)	180PQ-230	180PQ-230	180PQ-230	180PQ-230	180PQ-230	180PQ-230	N/A
91	Liner Case	---	---	---	---	---	---	90PS4-31
92	Seal	40PSQ1-273	45PS3-271	45PS3-271	45PS3-271	45PS3-271	45PS3-271	04354932
93	Seal	40PSQ1-272	45PS3-272	45PS3-272	45PS3-272	45PS3-272	45PS3-272	04354940
94	Washer	40PSQ1-229	45PS3-229	45PS3-229	45PS3-229	45PS3-229	45PS3-229	90PS4-80
95	Washer	04351656	180PQ-229	180PQ-229	180PQ-229	180PQ-229	180PQ-229	90PS4-79
96	Bushing	40PSQ1-232	45P3-229	45P3-229	45P3-229	45P3-229	45P3-229	N/A
---	Hammer Case Assembly	40PSQ1-A727	60P3-A727	60P3-A727	60P3-A727	60P3-A727	70PS3-A727	90P4-A727
97	Main Shaft Bushing	40PSQ1-641	55P3-641	55P3-641	55P3-641	55P3-641	180PQ-641	90P4-641
98	Hammer Case	40PSQ1-727	60P3-727	60P3-727	60P3-727	60P3-727	70PS3-727	90P4-727
99	Socket Plug	40PSQ1-95	60P3-95	60P3-95	60P3-95	60P3-95	180PQ-95	180PQ-95
T	Snap Ring	100PQ-303	N/A	N/A	N/A	N/A	N/A	N/A
---	Bit Chuck Assembly	180PQ-A667	N/A	180PQ-A667	N/A	180PQ-A667	N/A	N/A
100	Ball	EQ104S-929	N/A	EQ104S-929	N/A	EQ104S-929	N/A	N/A
101	Bit Sleeve	EQ104S-930	N/A	EQ104S-930	N/A	EQ104S-930	N/A	N/A
102	Spring	EQ104S-931	N/A	EQ104S-931	N/A	EQ104S-931	N/A	N/A
103	Spring Seat	EQ104S-932	N/A	EQ104S-932	N/A	EQ104S-932	N/A	N/A
104	Ring	EQ104S-933	N/A	EQ104S-933	N/A	EQ104S-933	N/A	N/A
105	Shaft	40PSQ1-626	N/A	45PSQ1-626	N/A	45PSQ1-626	N/A	N/A
106	Washer (qty 4)	N/A	N/A	N/A	N/A	N/A	900P-58	900P-58
107	Screw (qty 4)	N/A	N/A	N/A	N/A	N/A	04351946	04351946
108	Gasket	N/A	N/A	N/A	N/A	N/A	70P3-739	90PS4-741
A	Label	60P3-99	60P3-99	60P3-99	60P3-99	60P3-99	60P3-99	60P3-99
B	Nameplate	40PSQ1-301	45PS3-301	45PSQ1-301	55PS3-301	55PSQ1-301	70PS3-301	90PS4-301
C	Information Label	46P3-99	70PS3-99	70PS3-99	70PS3-99	70PS3-99	70PS3-99	70PS3-99
E	Hexagon Wrench	55P3-900	55P3-900	55P3-900	55P3-900	55P3-900	55P3-900	70P3-900
F	Hexagon Wrench	04356012	55P3-901	55P3-901	55P3-901	55P3-901	70P3-900	55P3-900
+	Protector	40PSQ1-P32	55PS3-P32	55PS3-P32	55PS3-P32	55PS3-P32	70PS3-P32	90PS4-P32

+ 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 Manual 80167570.
Product Maintenance Information Manual 16575409

Manuals can be downloaded from www.irttools.com.

Notes:

Notes:

Notes:

www.irtools.com

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