



**16605990**  
Edition 1  
October 2007

# Air Impact Wrench

599A1

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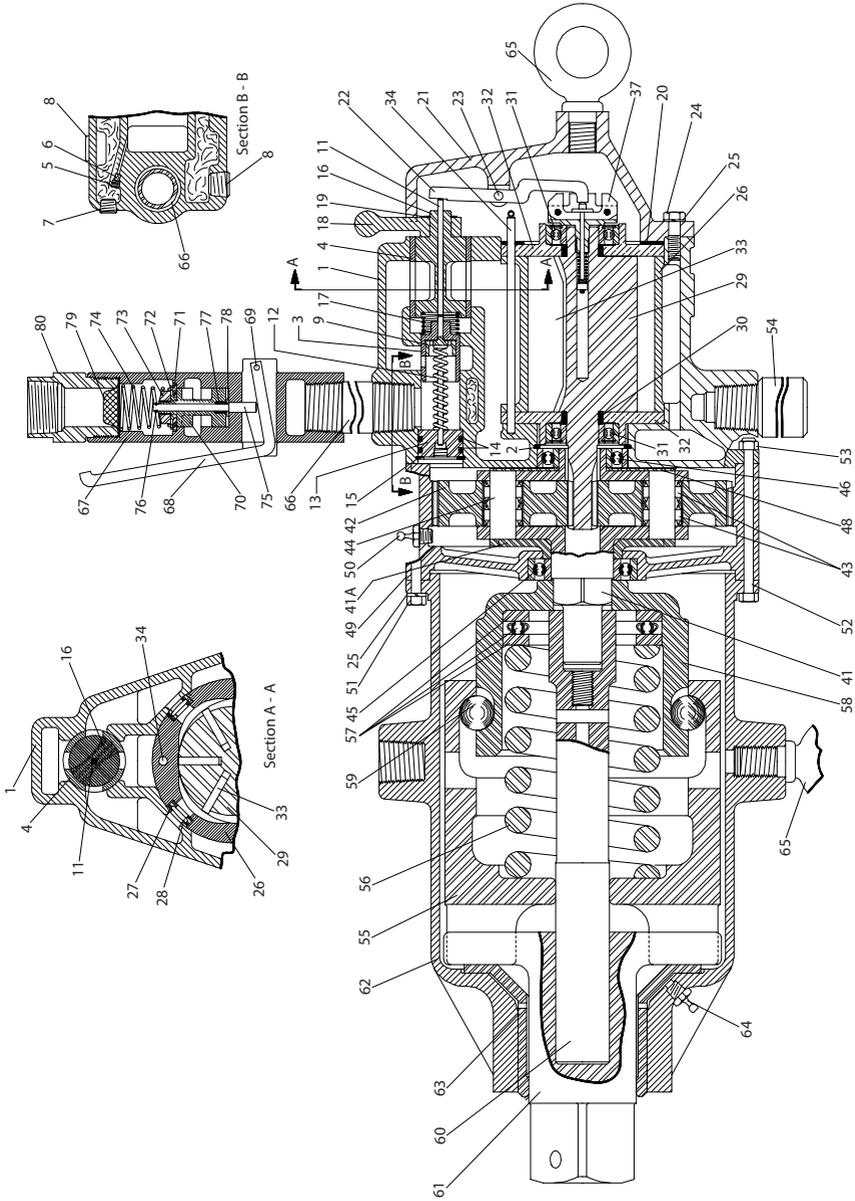
## Parts Information



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 **Ingersoll Rand**

599A1 Impact Wrench Sectional Diagram



(Dwg. TPA18-2)

## 599A1 Impact Wrench Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number
1	Motor Housing	599-40	51	Hammer Case Short Bolt (2)	599-637A
2	Gear Frame Bearing Seat	599-118	52	Hammer Case Long Bolt (6)	599-636A
3	Governor Valve Bushing	599-429	53	Hammer Case Bolt Nut (6)	599-639
4	Reverse Valve Bushing	599-330	54	Dead Handle	599-48
5	Oiler Adjustment Screw (2)	JA4-71	55	Hammer	599-724
6	Oiler Felt (4)	JA4-75	56	Hammer Spring	599-728
7	Housing Plug	GA57-95	57	Hammer Spring Thrust Bearing	599-695
8	Oil Chamber Plug (3)	599-276	58	Ball Cam	599-721
*	Nameplate		59	Cam Ball (1-3/8" diameter steel ball) (2)	599-722
	For models ending in -EU	599-EU-245	60	Arbor	599-725
	For all other models	599-245	61	Anvil	599-726
9	Governor Valve	599-425	62	Hammer Case Assembly	
11	Governor Valve Plunger	599-439		For models ending in-EU	599-EU-A727
12	Governor Valve Spring	599-431		For all other models	599-A727
13	Governor Valve Cap	599-433	63	Hammer Case Bushing	599-641
14	Governor Valve Cap Seal (2)	FMD2-198	64	Grease Fitting	23-188
15	Governor Valve Cap Retainer	FMB2-6	*	Hammer Case Label	
16	Reverse Valve	599-329		for models ending in-EU	EU-99
17	Reverse Valve Spring	6CND-232-3/4		for all other models	WARNING-2-99
18	Reverse Lever	599-163	*	Oversize Hammer Case Bushing	
19	Reverse Lever Retainer (2)	21-408		.005" Oversize	599-641-5
20	Back Head Gasket	20BM-283		.010" Oversize	599-641-10
21	Back Head	599-102		.015" Oversize	599-641-15
22	Governor Lever	599-436		.031" Oversize	599-641-31
23	Governor Lever Pin	AVI-64	65	Eyebolt (3)	22-104
24	Back Head Cap Screw (7)	599-103	66	Throttle Connector	599-333
25	7/16" Lock Washer (9)	D02-537		Lever Throttle Assembly	599-A301
26	Cylinder	20QDM-3	67	Throttle Body	599-301
27	Air Port Gasket (6)	20BM-210	68	Throttle Lever	599-273
28	Gasket Retaining Spring (6)	20BM-200	69	Throttle Lever Pin	T22-306
29	Rotor	599-53	70	Throttle Valve	599-168
30	Rotor Bearing Spacer (2)	599-65	71	Throttle Valve Face	599-159
* 31	Rotor Bearing (2)	20BM-24	72	Throttle Valve Face Cap	599-157
* 32	Cylinder End Plate (2)	599-11	73	Throttle Valve Face Cap Nut	D02-418A
* 33	Vane Packet (Set of 5)	SS800-42A-5	74	Throttle Valve Spring	599-262
34	Cylinder Dowel	599-98	75	Throttle Valve Stem	599-161
37	Weight-Type Governor Assembly	599-A424	76	Throttle Valve Stem Seal	R2F-167
41	Planet Gear Frame	599-8A	77	Throttle Valve Stem Spring	801-11
41A	Gear Frame Front Spacer	599-331	78	Throttle Valve Stem Washer	S12-675
42	Planet Gear (2)	599-10	79	Air Strainer Screen	599-61
43	Planet Gear Bearing (4)	599-654	80	Air Strainer Body	599-565
44	Planet Gear Shaft (2)	599-191	*	Socket	#
45	Gear Frame Front Bearing	2115-141	*	Socket Pin	599-215
46	Gear Frame Rear Bearing	599-99	*	Socket Pin Retainer	599-216
48	Gear Frame Rear Spacer	599-332	*	Grease Gun	P25-228
49	Gear Case	599-37			
50	Grease Fitting	23-188			

\* Not Illustrated

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

# Inquire at nearest **Ingersoll Rand** Branch Office for Sockets.

+ Refer to Oversize Hammer Case Bushings in Maintenance Information Manual 16606006.

## 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 03523865.

Maintenance Information Manual 16606006.

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

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