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Edition 5
December 2021

Air Grinder, Sander and Polisher

77A Series

Parts Information



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 **Ingersoll Rand**[®]

77A Series, Angle Grinder, Sander and Polisher - Parts List

Item	Part Description	Part Number	Item	Part Description	Part Number	
1	Throttle Handle Assembly	77H-A160	*	Warning Label		
2	Throttle Valve Assembly	88V60-A302		for Grinders ending in -EU	EU-99	
† • 3	Seal (2)	C321-606		for all other Grinders	WARNING-4-99	
4	Inlet Bushing	77H-38		for Sanders and Polishers ending in -EU	EU-99	
† • 5	Inlet Bushing Screen	834-61		for all other Sanders and Grinders	WARNING-5-99	
† 6	Throttle Valve Spring	77H-262	44	Grease Fitting (2)	1305R-188	
7	Oil Chamber Plug	R2-227	45	Mounting Plate Pin	77A-31	
8	Throttle Valve Seat Support Assembly	77H-A303	• 46	Upper Bearing Spring Washer	4U-278	
9	Valve Seat Screw	PS3-83	• 47	Upper Arbor Bearing	WWA100-97	
10	Valve Seat Lock Washer	H54U-352	48	Bevel Gear Nut	77A-578	
11	Valve Seat Washer	99V-155	49	Bevel Gear Spacer	77A-25	
† • 12	Valve Seat	R4-159A	50	Arbor Lower Bearing Assembly	77A-A593	
† 13	Valve Support Seal (2)	SPP101-743	51	Lower Arbor Spring Washer	77A-307	
14	Oiler Feeder Plug	77H-75	52	Sander Arbor Retaining Plate	77A-55	
15	Throttle Valve Seat Support Retainer	W64-118	52A	Washer	R4-35	
16	Throttle Lever Pin	MR-100	52B	Felt Wiper Cup	77A-35B	
17	Throttle Lever Assembly	77H-A400	53	Screw Lock Washer (6)	88H60-67	
18	Lever Lock Pin	R100B-120	54	Guard Screw or Retaining Plate Screw (6)	77H-638	
19	Lever Lock Spring	DG120-405	55	Sander Arbor	77A-204-P10	
20	Lever Lock	DG120-402	56	Sanding Pad Assembly		
21	Coupling Nut	77H-282		with 5" Sanding Pad	77A-AM825-5	
‡ 22	Controller Assembly (Consists of Controller and Rear End Plate Assembly)	77H90-A524RH		with 7" Sanding Pad (medium)	77A-AM825-7	
				with 7" Sanding Pad (firm)	77A-BM825-7	
				with 9" Sanding Pad	77A-AM825-9	
				Pad Mounting Kit	77A-826	
				Wool Bonnet (for 77A25F107)	P500-850	
23	Rear End Plate Assembly (consists of rear end plate, rotor bearing and required spacers)	77H-A12	9	for 7" diameter wheels	77A-106-7	
				for 9" diameter wheels	77A-106-9	
			60	Depressed Center Wheel Arbor	77A-4-B10	
† • 24	Rear End Plate Gasket	77H-739	61	Autobalancer Assembly	99V60-A713	
25	Cylinder	77H-3				
26	Rotor	77H-53RH	*	Autobalancer Wrench (7/8" single end; open-end wrench)	88V60-169	
† • 27	Vane Packet (set of 4 Vanes)	77H-42-4				
• 28	Front End Plate	77H-11	62	Felt Wiper Cup	77A-35B	
29	Front Rotor Bearing	77H-24	62A	Dust Washer	R4-35	
30	Cylinder Dowel	77H-98		Depressed Center Wheel Spacer (2 for all Type 27 Mounted Wheels)	99V-286	
31	Bevel Pinion Driver	77A-8	63	Wheel Retaining Screw (for all Type 27 and 28 Wheels)	99V60-219	
		for all others	77A-7	65	Depressed Center Wheel Flange (for Type 27 & 28 Plain Hole Wheels)	99V60-386
32	Internal Gear	77H-406	66	Depressed Center Wheel Nut (for Type 27 and 28 Plain Hole Wheels)	99V85-186	
33	Bevel Pinion Driver Bearing	WFS182-97	67	Depressed Center Wheel Nut Spanner Wrench	D32-26	
34	Planet Gear Shaft (2)	G700-191	*	Wheel Flange Wrench (for all Grinders)	7RAQT4-254	
35	Rotor Pinion	77H-17				
36	Planet Gear Assembly (2)	77H-A10	*	Depressed Center Wheel Flange (for 77A60P107M, 77A60P109M and 77A75P107M with Type 27 and Type 28 Plain Hole Depressed Center Wheels)	99V60-386-M	
37	Planet Gear Bearing (one for each gear)	G700-654	*	Dead Handle	88V60-48	
38	Thrust Spacer	77A-104	68	Dead Handle Screw	88V60-634	
38A	Seal, Grease	77A-271		Nameplate	66H-301	
39	Bevel Pinion Bearing Assembly	77A-A510		Nameplate Screw (4)	BN403-302	
40	Matched Gear Set (Bevel Gear and Pinion not sold separately)	77A-A552		Bearing Clamp Assembly	77H-A952	
40A	O-Ring	DAA40-606	71	Controller Wrench	77H-950	
40B	Seal, V-Ring	77A-720	72	Throttle Valve Seat Support Retainer Pliers	77H-154	
41	Motor Spacer	77E-208-H8	73	Coupling Nut Wrench	77H-281	
42	Arbor Coupling	66H-304	*	1/2" Pipe Tap Inlet Bushing	88V60-38	
‡ 43	Angle Arbor Housing	77A-EU-A40-P10	*	Vibra-Tite*** 0.6 cc	5R-VT06	
		for all other models	77A-A40-P10	*	Adhesive Kit	77H-KVLT
43A	Nameplate Kit	77A-EU-K301	*	Tune-up Kit includes illustrated parts: (3 [2], 5, 6, 12, 13 [2], 24 and 27)	77H/77A-TK3	
		for all other models	77A-K301	*	Grease, Mobilux-EPO	77A-EPO
43B	Nameplate Screw (4)	BN403-302				

- * Indicates not illustrated.
 - Indicates common-wear parts. Maintain stock to reduce downtime.
 - ‡ Whenever a new Angle Arbor Housing is installed, select the correct Nameplate from the Nameplate Kit (43A) and attach it to the Housing with the Nameplate screws (43B).
 - † Indicates tune-up kit part.
 - # Early models of these Grinders had Rotors and Controller Assemblies with left-hand threads. If you have a model with left-hand threads, contact **Ingersoll Rand** when ordering replacement parts.
 - **Registered trademark of ND Industries.
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Parts and Maintenance

When tool life has expired, it is recommended that the tool be disassembled, degreased and parts separated by material for proper recycling.

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

Manuals can be downloaded from ingersollrand.com

For additional information, refer to:

Air Grinder, Sander and Polisher Product Safety Information Manual 04580387 and 04584959.

Air Grinder, Sander and Polisher Product Information Manual 80221740, 80221757, 80221765 and 80221773.

Air Grinder, Sander and Polisher Maintenance Information Manual 16575128.

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