



16574071
Edition 5
December 2021

Air Grinder, Sander and Polisher

77A Series

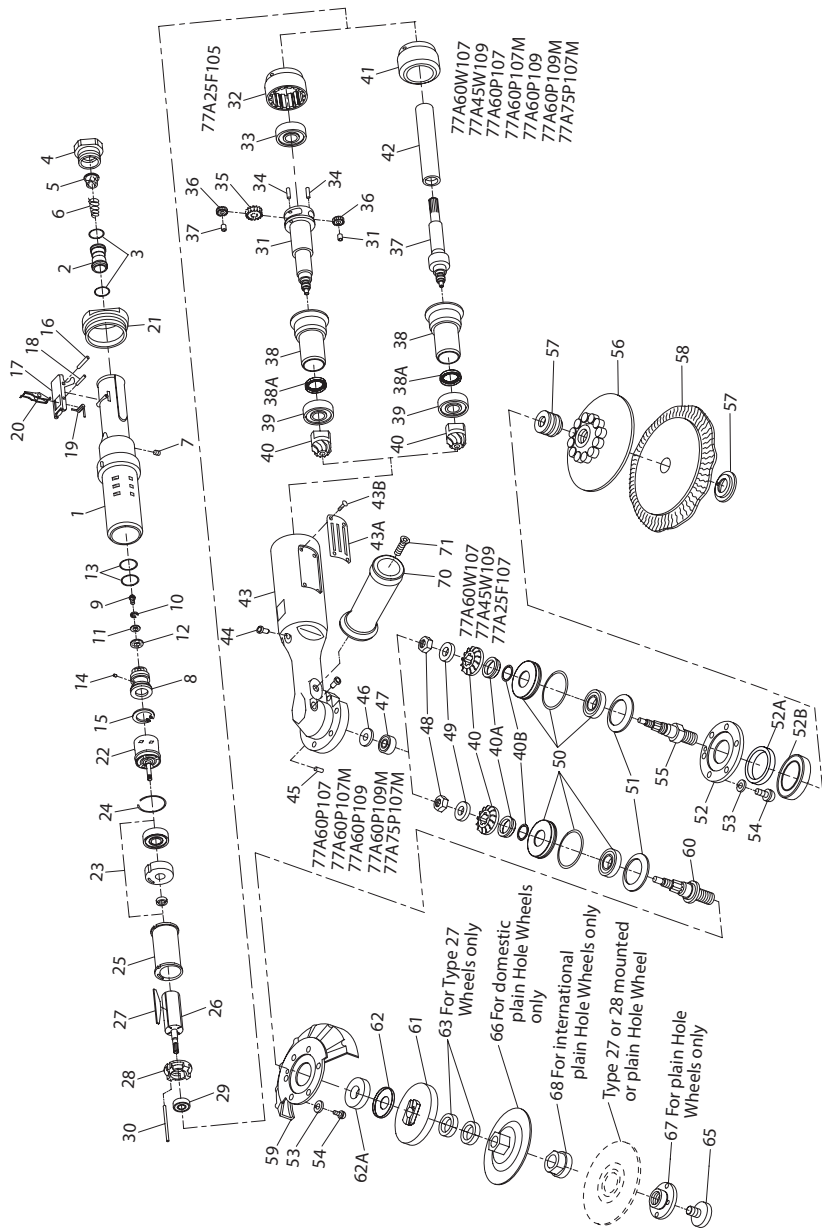
Parts Information



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77A Series, Angle Grinder, Sander and Polisher - Exploded View



(Dwg. TPA793-7)

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)	130SR-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)	SP101-743	51	Lower Arbor Spring Washer	77A-307
14	Oil 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)			with 7" Sanding Pad (medium)	77A-AM825-7
	for 77A45W109	77H90-A524RH		with 7" Sanding Pad (firm)	77A-BM825-7
	for 77A60W107, 77A60P107, 77A60P107M, 77A60P109 and 77A60P109M	77H120-A524RH		with 9" Sanding Pad	77A-AM825-9
	Rear End Plate Assembly (consists of rear end plate, rotor bearing and required spacers)	77H-A12	57	Pad Mounting Kit	77A-826
† • 24	Rear End Plate Gasket	77H-739	58	Wool Bonnet (for 77A25F107)	P500-850
25	Cylinder	77H-3	59	Depressed Center Wheel Guard	
26	Rotor	77H-53RH	9	for 7" diameter wheels	77A-106-7
† • 27	Vane Packet (set of 4 Vanes)	77H-42-4		for 9" diameter wheels	77A-106-9
• 28	Front End Plate	77H-11	60	Depressed Center Wheel Arbor	77A-4-B10
29	Front Rotor Bearing	77H-24	61	Autobalancer Assembly	99V60-A713
30	Cylinder Dowel	77H-98		Autobalancer Wrench (7/8" single end; open-end wrench)	88V60-169
31	Bevel Pinion Driver		*		
	for 77A25F107	77A-8	62	Felt Wiper Cup	77A-35B
	for all others	77A-7	62A	Dust Washer	R4-35
32	Internal Gear	77H-406	63	Depressed Center Wheel Spacer (2 for all Type 27 Mounted Wheels)	99V-286
33	Bevel Pinion Driver Bearing	WFS182-97	65	Wheel Retaining Screw (for all Type 27 and 28 Wheels)	99V60-219
34	Planet Gear Shaft (2)	G700-191	66	Depressed Center Wheel Flange (for Type 27 & 28 Plain Hole Wheels)	99V60-386
35	Rotor Pinion	77H-17	67	Depressed Center Wheel Nut (for Type 27 and 28 Plain Hole Wheels)	99V85-186
36	Planet Gear Assembly (2)	77H-A10	*	Depressed Center Wheel Nut Spanner Wrench	D32-26
37	Planet Gear Bearing (one for each gear)	G700-654	*	Wheel Flange Wrench (for all Grinders)	7RAQT4-254
38	Thrust Spacer	77A-104		Depressed Center Wheel Flange (for 77A60P107M, 77A60P109M and 77A75P107M with Type 27 and Type 28 Plain Hole Depressed Center Wheels)	99V60-386-M
38A	Seal, Grease	77A-271	68	Dead Handle	88V60-48
39	Bevel Pinion Bearing Assembly	77A-A510	71	Dead Handle Screw	88V60-634
40	Matched Gear Set (Bevel Gear and Pinion not sold separately)	77A-A552	72	Nameplate	66H-301
40A	O-Ring	DAA40-606	73	Nameplate Screw (4)	BN403-302
40B	Seal, V-Ring	77A-720	*	Bearing Clamp Assembly	77H-A952
41	Motor Spacer	77E-208-H8	*	Controller Wrench	77H-950
42	Arbor Coupling	66H-304	*	Throttle Valve Seat Support Retainer Pliers	77H-154
† 43	Angle Arbor Housing		*	Coupling Nut Wrench	77H-281
	for models ending in -EU	77A-EU-A40-P10	*	1/2" Pipe Tap Inlet Bushing	88V60-38
	for all other models	77A-A40-P10	*	Vibra-Tite*** 0.6 cc	5R-VT06
43A	Nameplate Kit		*	Adhesive Kit	77H-KVLT
	for models ending in -EU	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-EP0	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.

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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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