RESERVDELSINFORMATION / PARTS INFORMATION

99V Parts Information

Ingersoll Rand 99V85P107M · 99V60P109M · 99V60P107M

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Air Grinder

99V Series

Parts Information

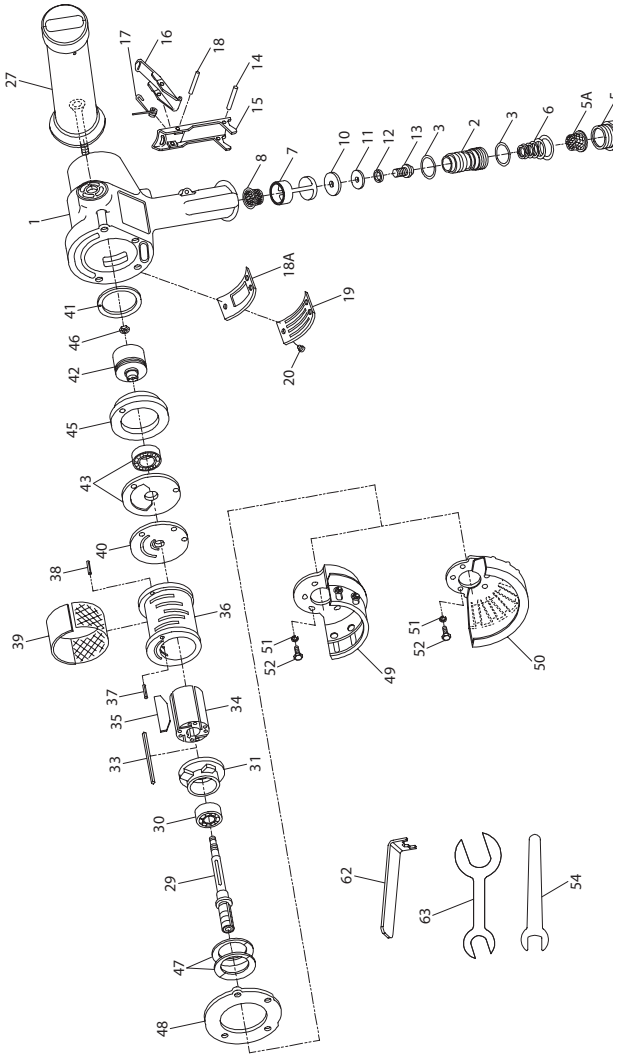


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88V Series Air Grinder Exploded Diagram

Use this drawing with part listing for models without built-in oilers



(Dwg. TPA1708)

88V Series Air Grinder Parts List

Use this part listing with drawing TPA1708 for models without built-in oilers

Item	Part Description	Part Number
‡ 1	Cylinder Case Assembly	
	for models ending in -EU	99V60-EU-A25A
	for all other models	99V60-A25A
2	Throttle Valve Assembly	88V60-A302
3	Throttle Seal (2)	C321-606
5	Inlet Bushing	88V60-38
• 5A	Inlet Bushing Screen	834-61
• 6	Throttle Valve Spring	99V60-262
7	Throttle Valve Seat Support Assembly	88V60-A303
• 8	Air Strainer Screen	834-61
• 10	Valve Seat	R4-159A
11	Valve Seat Washer	99V60-155
12	Valve Screw Lock Washer	H54U-352
13	Valve Seat Screw	PS3-83
14	Throttle Lever Pin	MR-100
15	Locking Lever Assembly	88V60-A400
16	Lever Lock	88V60-402
17	Lever Lock Spring	88V60-405
18	Lever Lock Pin	502B-120
18A	Exhaust Diffuser (not used on 99V45 or 99V60)	99V77-123
19	Exhaust Deflector	99V60-23
20	Exhaust Deflector Screw (3)	99V60-200
*	Nameplate Kit (for European compliant models)	99V-EU-K301A
*	Nameplate Screw (for European compliant models) (4)	BN403-302
*	Warning Label (for European compliant models)	EU-99
*	Nameplate Kit (for domestic models)	99V-K301A
	Nameplate Screw (4)	BN403-302
	Warning Label	WARNING-4-99
25	Dead Handle	88V60-48
27	Arbor	
	for 99V45 (Orange)	99V45-204-P10
	for 99V60 (Blue)	99V60-204-P10
	for 99V77 (Green)	99V77-204-P10
	for 99V85 (Red)	99V85-204-P10
30	Front Rotor Bearing	R380-105
31	Front End Plate	99V60-11

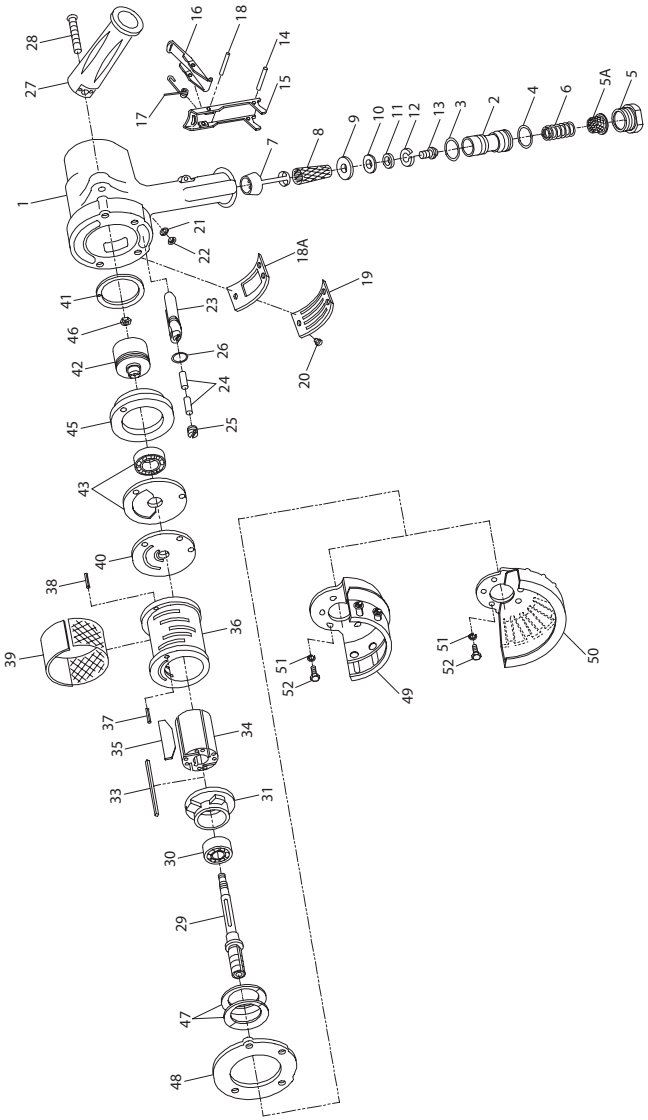
* Not Illustrated.

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

‡ Whenever a new Cylinder Case Assembly is installed, select the correct Nameplate from the Nameplate Kit and attach it to the Cylinder Case with the Nameplate Screws.

99V Series Air Grinder Exploded Diagram

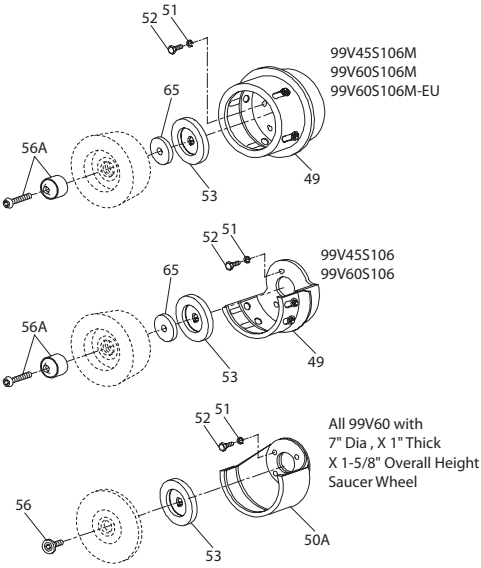
Use this drawing with part listing for models with built-in oilers



(Dwg. TPA717-3)

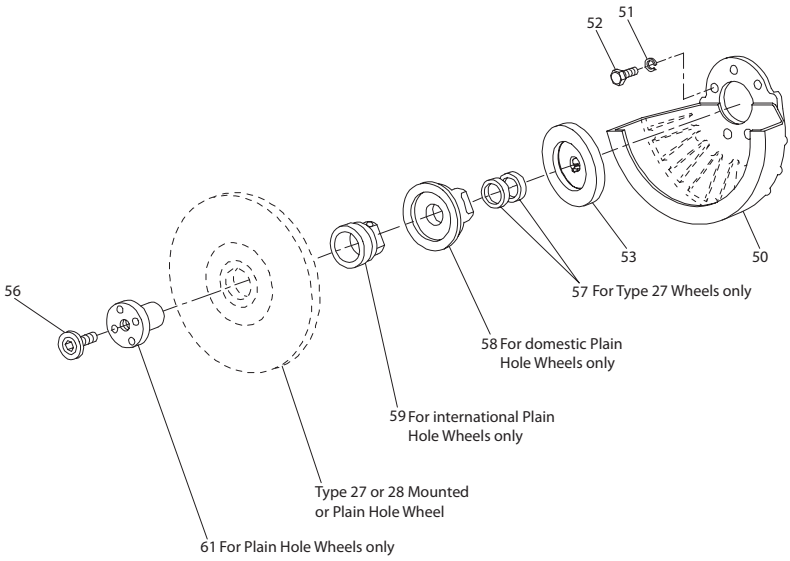
99V Series Air Grinder Exploded Diagram

Guards, Flanges and Spacers for 99V Grinders using Cup and Saucer Wheels



(Dwg. TPA862-3)

Guards, Flanges and Spacers for 99V Grinders using depressed Center Wheels



(Dwg. TPA862-3)

99V Series Air Grinder Parts List

Use This Part Listing With Drawing TPA717-3 For Models With Built-in Oilers

Item	Part Description	Part Number
‡ 1	Cylinder Case Assembly	
2	Throttle Valve Assembly	99V60-A302
† 3	Small Seal	AFH120A-358
† 4	Large Seal	C321-606
† • 5	Inlet Bushing	88V60-38
5A	Inlet Bushing Screen	834-61
• 6	Throttle Valve Spring	99V60-262
7	Throttle Valve Seat Support Assembly	99V60-A303
† • 8	Air Strainer Screen	99V60-61
9	Valve Seat Cap	R4-157
† • 10	Valve Seat	R4-159A
11	Valve Seat Washer	99V60-155
12	Valve Seat Lock Washer	H54U-352
13	Valve Seat Screw	99V60-83
• 14	Throttle Lever Pin	MR-100
15	Locking Lever Assembly	99V60-A400A
16	Lever Lock	88V60-402
17	Lever Lock Spring	88V60-405
18	Lever Lock Pin	502B-120
18A	Exhaust Diffuser (not used on 99V45 or 99V60)	99V77-123
19	Exhaust Deflector	99V60-23
20	Exhaust Deflector Screw (3)	99V60-200
*	Nameplate Kit (for European compliant models)	99V-EU-K301A
*	Nameplate Screw (for European compliant models) (4)	BN403-302
*	Warning Label (for European compliant models)	EU-99
*	Nameplate Kit (for domestic models)	99V-K301A
	Nameplate Screw (4)	BN403-302
	Warning Label	WARNING-4-99
† 21	Oiler Chamber Plug Washer	R3-92A
22	Oiler Chamber Plug	231-665
23	Oiler Assembly	99V60-A198
† 24	Oiler Felt (2)	R1-75
25	Oiler Adjusting Screw	R1-71A
† 26	Oiler Body Seal	HRA20A-117
27	Dead Handle	99V60-48
28	Dead Handle Screw	99V60-634
29	Arbor	
	for 99V45 (Orange)	99V45-204-P10
	for 99V60 (Blue)	99V60-204-P10
	for 99V77 (Green)	99V77-204-P10
	for 99V85 (Red)	99V85-204-P10
30	Front Rotor Bearing	R380-105
31	Front End Plate	99V60-11

* Not Illustrated.

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

‡ Whenever a new Cylinder Case Assembly is installed, select the correct Nameplate from the Nameplate Kit and attach it to the Cylinder Case with the Nameplate Screws.

† Indicates Tune-up Kit part.

Use this part listing for all models

Item	Part Description	Part Number
• 33	Rotor Key	R43F-70
34	Rotor	99V60-53
† • 35	Vane Packet (set of 4 Vanes)	99V60-42-4
36	Cylinder Assembly	99V60-A3
37	End Plate Dowel	5040-6
38	Cylinder Dowel	502B-120
39	Exhaust Silencer	99V60-311
40	Rear End Plate	99V60-A12
† • 41	Rear End Plate Gasket	99V60-739
42	Controller Assembly (consists of Controller and Rotor Bearing Seal Assembly)	
	for 99V45 (4500 rpm) (Orange)	99V45-A524
	for 99V60 (6000 rpm) (Blue)	99V60-A524
	for 99V77 (7700 rpm) (Green)	99V77-A524
	for 99V85 (8500 rpm) (Red)	99V85-A524
43	Rotor Bearing Seal Assembly (consists of Rear Rotor Bearing and Rotor Bearing Seal)	99V60-A28A
45	Rotor Bearing Cage	99V60-107A
46	Controller Retaining Nut	
	for 99V45 and 99V85	R4-120
	for all others	G8-120A
47	Motor Clamp Belleville Washer (2)	99V60-207
† • 48	Cylinder Case Gasket	99V60-283
49	Cup Wheel Guard	
	for 5" or 6" Cup Wheels	99V60-A216A
	for 130 or 150 mm Cup Wheels	99V60-A216MA
50	Depressed Center Wheel Guard for Type 27 or Type 28 Wheels	
	for 9" or 230 mm	99V60-106-9
	for 7" or 180 mm	99V77-106-7
50A	Saucer Wheel Guard (for 7" diameter x 1" thick x 1-5/8" over all height Saucer Wheel)	99V60-206-7
51	Cylinder Case Screw Lock Washer (4)	10BM-67
52	Cylinder Case Screw (4)	99V60-638
53	Autobalancer Assembly	99V60-A713
54	Autobalancer Wrench (7/8" single-end; open-end wrench)	88V60-169
56	Wheel Retaining Screw	
	for all Type 27 and Type 28 Wheels	99V60-219
	for 7" diameter x 1" thick x 1-5/8" overall height Saucer Wheels	99V60-119

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

† Indicates Tune-up Kit part.

Use this part listing for all models

Item	Part Description	Part Number
56A	Wheel Retaining Screw Assembly (for all Type 6 and Type 11 Wheels)	99V60-A219C
57	Depressed Center Wheel Spacer (for Type 27 Plain Hole Wheels) (2)	99V-286
58	Depressed Center Wheel Flange (for 7" and 9" diameter Type 27 and Type 28 Plain Hole Wheels)	99V60-386
59	Depressed Center Wheel Flange (for 99V60P107M, 99V60P109M and 99V85P107M Type 27 Plain Hole Depressed Center Wheels)	99V60-386-M
60	Depressed Center Wheel Nut	99V85-186
62	Depressed Center Wheel Nut Spanner Wrench	D32-26
63	Depressed Center Wheel Flange Wrench (for 99V60P107M,99V60P109M and 99V85P107M) (1" x 15/16" double-end; open-end wrench)	7RAQT4-254
65	Flange (for 99V45S106M, 99V60S106M, 99V45S106M-EU, 99V45S106, and 99V60S106)	88V60-86A

Item	Part Description	Part Number
*	Piped-Away Exhaust Kit	99V60-K184
	Exhaust Hose	99V60-184
	Exhaust Hose Clamp	DG30-67
	Exhaust Elbow	99V60-167
	Exhaust Elbow Gasket	99V60-49
	Exhaust Elbow Screw (3)	FEA100-112
	Exhaust Hose Band (4)	99V60-927
	Exhaust Hose Band Screw (4)	MT1-36-7/8
	Nut (6)	G8-120A
	Screw (2)	JC3350-103
*	Tune-up Kit (for models with built-in oiler) (includes illustrated parts 3, 4 [2], 5A [2], 8, 10, 21, 24 [2], 26, 35, 41 and 48)	99V/99H-TK3
*	Exhaust Deflector Screw Wrench (1/8" hex)	R2J-562
*	Maintenance Tool Kit	99V60-K950
	Controller Wrench	99V60-950
	Seal Pressing Tool	99V60-951
	Bearing Clamp	99V60-A952
*	Wheel Retaining Screw Wrench (5/32" hex)	88V-562

* 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 04584959.
Product Information Manuals 16573222 and 16576092.
Maintenance Information Manual 16573370.

Manuals can be downloaded from www.ingersollrandproducts.com.

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