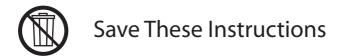




Air Grinder 99V Series

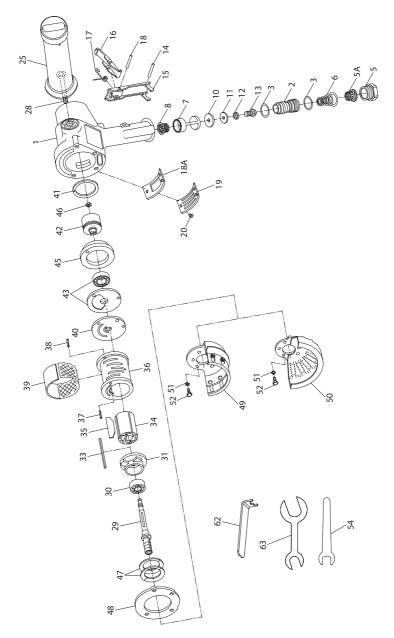
Parts Information





99V Series Air Grinder - Exploded View

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



99V Series Air Grinder - Parts List

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

Item	Part Description	Part Number	Item	Part Description	Part Number
	Cylinder Case Assembly		19	Exhaust Deflector	99V60-23
‡1	for models ending in -EU	99V60-EU-A25A	20	Exhaust Deflector Screw (3)	99V60-200
	for all other models	99V60-A25A	*	Nameplate Kit	99V-EU-K301A
2	Throttle Valve Assembly	88V60-A302		(for European compliant models)	
3	Throttle Seal (2)	C321-606	*	Nameplate Screw	BN403-302
5	Inlet Bushing	88V60-38		(for European compliant models) (4)	
•5A	Inlet Bushing Screen	834-61	*	Warning Label	EU-99
•6	Throttle Valve Spring	99V60-262		(for European compliant models)	
7	Throttle Valve Seat Support Assembly	88V60-A303	*	Nameplate Kit (for domestic models)	99V-K301A
•8	Air Strainer Screen	834-61		Nameplate Screw (4)	BN403-302
•10	Valve Seat	R4-159A		Warning Label	WARNING-4-99
11	Valve Seat Washer	99V60-155	25	Dead Handle	88V60-48
12	Valve Screw Lock Washer	H54U-352	28	Screw	88V60-634
13	Valve Seat Screw	PS3-83		Arbor	
14	Throttle Lever Pin	MR-100	29	for 99V45 (Orange)	99V45-204-P10
15	Locking Lever Assembly	88V60-A400		for 99V60 (Blue)	99V60-204-P10
16	Lever Lock	88V60-402		for 99V77 (Green)	99V77-204-P10
17	Lever Lock Spring	88V60-405		for 99V85 (Red)	99V85-204-P10
18	Lever Lock Pin	502B-120	30	Front Rotor Bearing	R380-105
18A	Exhaust Diffuser	99V77-123	31	Front End Plate	99V60-11
	(not used on 99V45 or 99V60)				

^{*} Indicates Not Illustrated.

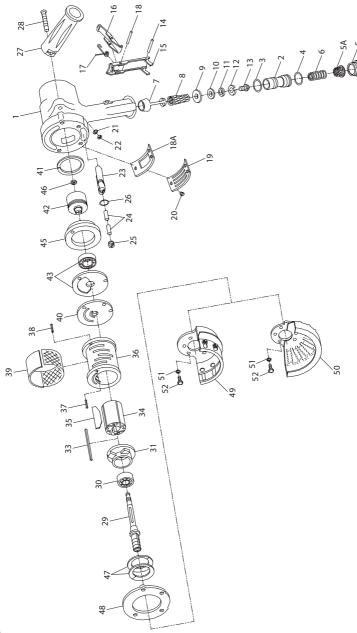
16573313_ed5 3

Indicates common-wear parts. Maintain stock to reduce downtime.

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 View

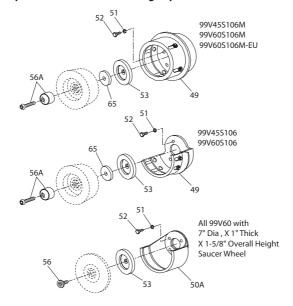
Use this drawing with part listing for models with built-in oilers that were manufactured before 1999.



(Dwg. TPA717-3)

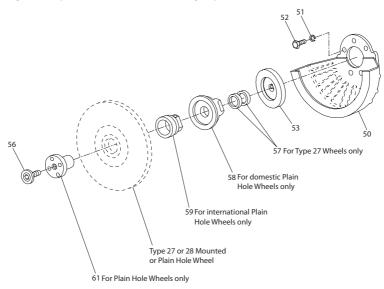
99V Series Air Grinder - Exploded View

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)

16573313_ed5 5

99V Series Air Grinder - Parts List

Use This Part Listing With Drawing TPA717-3 For Models With Built-in Oilers that were manufactured before 1999.

Item	Part Description	Part Number	Item	Part Description	Part Number
‡1	Cylinder Case Assembly		*	Nameplate Screw	BN1403-303
2	Throttle Valve Assembly	99V60-A302		(for European compliant models) (4)	BN403-302
†3	Small Seal	AFH120A-358	*	Warning Label	EU-99
†4	Large Seal	C321-606		(for European compliant models)	
†•5	Inlet Bushing	88V60-38	*	Nameplate Kit (for domestic models)	99V-K301A
5A	Inlet Bushing Screen	834-61		Nameplate Screw (4)	BN403-302
•6	Throttle Valve Spring	99V60-262		Warning Label	WARNING-4-99
7	Throttle Valve Seat Support Assembly	99V60-A303	†21	Oiler Chamber Plug Washer	R3-92A
†•8	Air Strainer Screen	99V60-61	22	Oiler Chamber Plug	231-665
9	Valve Seat Cap	R4-157	23	Oiler Assembly	99V60-A198
†•10	Valve Seat	R4-159A	†24	Oiler Felt (2)	R1-75
11	Valve Seat Washer	99V60-155	25	Oiler Adjusting Screw	R1-71A
12	Valve Seat Lock Washer	H54U-352	†26	Oiler Body Seal	HRA20A-117
13	Valve Seat Screw	99V60-83	27	Dead Handle	88V60-48
•14	Throttle Lever Pin	MR-100	28	Dead Handle Screw	88V60-634
15	Locking Lever Assembly	99V60-A400A		Arbor	
16	Lever Lock	88V60-402		for 99V45 (Orange)	99V45-204-P10
17	Lever Lock Spring	88V60-405	29	for 99V60 (Blue)	99V60-204-P10
18	Lever Lock Pin	502B-120	30	for 99V77 (Green)	99V77-204-P10
18A	Exhaust Diffuser	00)/77 100		for 99V85 (Red)	99V85-204-P10
	(not used on 99V45 or 99V60)	99V77-123		Front Rotor Bearing	R380-105
19	Exhaust Deflector	99V60-23	31	Front End Plate	99V60-11
20	Exhaust Deflector Screw (3)	99V60-200			
*	Nameplate Kit (for European compliant models)	99V-EU-K301A			

^{*} Indicates Not Illustrated.

Use this part listing for all models

Item	Part Description	Part Number	Item	Part Description	Part Number
•33	Rotor Key	R43F-70	47	Motor Clamp Belleville Washer (2)	99V60-207
34	Rotor	99V60-53	†•48	Cylinder Case Gasket	99V60-283
†•35	Vane Packet (set of 4 Vanes)	99V60-42-4		Cup Wheel Guard	
36	Cylinder Assembly	99V60-A3	49	for 5" or 6" Cup Wheels	99V60-A216A
37	End Plate Dowel	5040-6		for 130 or 150 mm Cup Wheels	99V60-A216MA
38	Cylinder Dowel	502B-120		Depressed Center Wheel Guard for Type 27	7
39	Exhaust Silencer	99V60-311	50	or Type 28 Wheels	
40	Rear End Plate	99V60-A12		for 9" or 230 mm	99V60-106-9
†•41	Rear End Plate Gasket	99V60-739		for 7" or 180 mm	99V77-106-7
42	Controller Assembly (consists of Controller and Rotor Bearing Seal Assembly)		50A	Saucer Wheel Guard (for 7" diameter x 1" thick x 1-5/8" over all height Saucer Wheel)	99V60-206-7
	for 99V45 (4500 rpm) (Orange)	99V45-A524	51	Cylinder Case Screw Lock Washer (4)	10BM-67
	for 99V60 (6000 rpm) (Blue)	99V60-A524	52	Cylinder Case Screw (4)	99V60-638
	for 99V77 (7700 rpm) (Green)	99V77-A524	53	Autobalancer Assembly	99V60-A713
	for 99V85 (8500 rpm) (Red) Rotor Bearing Seal Assembly	99V85-A524	54	Autobalancer Wrench (7/8" single-end; open-end wrench)	88V60-169
43	(consists of Rear Rotor Bearing and	99V60-A28A		Wheel Retaining Screw	
	Rotor Bearing Seal)			for all Type 27 and	99V60-219
45	Rotor Bearing Cage	99V60-107A	56	Type 28 Wheels	99760-219
46	Controller Retaining Nut			for 7" diameter x 1" thick x 1-5/8"	99V60-119
	for 99V45 and 99V85	R4-120		overall height Saucer Wheels	35VUU-119
	for all others	G8-120A		·	

[•] Indicates common-wear parts. Maintain stock to reduce downtime.

6 16573313_ed5

[•] Indicates common-wear parts. Maintain stock to reduce downtime.

[‡] 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.

[†] Indicates Tune-up Kit part.

Use this part listing for all models

Item	Part Description	Part Number	Item	Part Description	Part Number
56A	Wheel Retaining Screw Assembly	99V60-A219C	*	Piped-Away Exhaust Kit	99V60-K184
	(for all Type 6 and Type 11 Wheels)	99V60-A219C		Exhaust Hose	99V60-184
57	Depressed Center Wheel Spacer	99V-286		Exhaust Hose Clamp	DG30-67
5/	(for Type 27 Plain Hole Wheels) (2)	990-286		Exhaust Elbow	99V60-167
	Depressed Center Wheel Flange	99V60-386		Exhaust Elbow Gasket	99V60-49
58	(for 7" and 9" diameter Type 27			Exhaust Elbow Screw (3)	FEA100-112
	and Type 28 Plain Hole Wheels)			Exhaust Hose Band (4)	99V60-927
	Depressed Center Wheel Flange			Exhaust Hose Band Screw (4)	MT1-36-7/8
59	(for 99V60P107M, 99V60P109M	99V60-386-M		Nut (6)	G8-120A
59	and 99V85P107M Type 27 Plain			Screw (2)	JC3350-103
	Hole Depressed Center Wheels)		*	Tune-up Kit (for models with built-in oiler)	
60	Depressed Center Wheel Nut	99V85-186		(includes illustrated parts 3, 4 [2], 5A [2],	99V/99H-TK3
62	Depressed Center Wheel	D32-26		8, 10, 21, 24 [2], 26, 35, 41 and 48)	
62	Nut Spanner Wrench		*	Exhaust Deflector Screw Wrench (1/8" hex)	R2J-562
	Depressed Center Wheel Flange Wrench	7RAQT4-254	*	Maintenance Tool Kit	99V60-K950
	(for 99V60P107M, 99V60P109M and			Controller Wrench	99V60-950
63	99V85P107M) (1" x 15/16" double-end;			Seal Pressing Tool	99V60-951
	open-end wrench)			Bearing Clamp	99V60-A952
	Flange (for 99V45S106M, 99V60S106M,	88V60-86A	*	Wheel Retaining Screw Wrench (5/32" hex)	88V-562
65	99V45S106M-EU, 99V45S106 and				
	99V60S106)				

^{*} Indicates 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

Manuals can be downloaded from ingersollrandproducts.com

For additional information, refer to:

Product Safety Information Manual 04584959.

Product Information Manuals 16573222 and 16576092.

Maintenance Information Manual 16573370.

16573313_ed5 7

in ger soll rand products. com

© 2017 Ingersoll Rand

