Parts Manual
45-8158EN
08/24/2015

DOTCO®

12-10 Series
Inline Grinder



Termination -36



Terminations -14 and -16

For additional product information visit our website at http://www.apextoolgroup.com

12	X	1	0	XX	-	XX	XX	OH	LH

Product Type
- **12 =** Ergo Handle Grinder

Throttle Type
- **L =** Locking Lever
- **S =** Locking Lever

Motor Size
- **1 =** 0.3 hp

Handle Style
- **0 =** Straight

Speed Options (RPM)

Front Exhaust	Rear Exhaust
00 = 30,000	**76 =** 18,000
01 = 34,000	**80 =** 30,000
03 = 25,000	**81 =** 34,000
08 = 20,000	**82 =** 25,000

Termination Code
- **14 =** 3" Cut-Off Wheel (1/4"-20 Thread)
- **16 =** 3" Cut-Off Wheel (3/8"-24 Thread)
- **36 =** 300 Series 3-piece collet (1/4" capacity)

Optional Collet (no extra cost)
- **08 =** 1/8"
- **14 =** 7/32"
- **M6 =** 6mm

Overhose Option (extra cost)
- **OH =** Overhose (rear exhaust models only)

Options
- **LH =** Left Hand Rotation

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Specifications

Model *	Exhaust	Termination	Free Speed (rpm)	Abrasive Capacity	Weight		Length		Air Inlet
					lbs.	kg	in.	mm	
12L1000-36	Front	1/4" Collet	30,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1000-36LH	Front	1/4" Collet	30,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1000-36	Front	1/4" Collet	30,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1001-36	Front	1/4" Collet	34,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1003-36	Front	1/4" Collet	25,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1003-36LH	Front	1/4" Collet	25,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1003-36	Front	1/4" Collet	25,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1008-36	Front	1/4" Collet	20,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1028-36	Rear	1/4" Collet	20,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1028-36	Rear	1/4" Collet	20,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1045-36	Front	1/4" Collet	12,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1046-36	Front	1/4" Collet	18,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1076-36OH	Rear	1/4" Collet	18,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1080-36	Rear	1/4" Collet	30,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1080-36	Rear	1/4" Collet	30,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1081-36	Rear	1/4" Collet	34,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1081-36	Rear	1/4" Collet	34,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12L1082-14	Rear	3" Cut-Off Wheel	25,000	3" Cut-Off Wheel	1.5	0.70	7.7	196	1/4"
12L1082-16	Rear	3" Cut-Off Wheel	25,000	3" Cut-Off Wheel	1.5	0.70	7.7	196	1/4"
12L1082-36	Rear	1/4" Collet	25,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"
12S1082-36	Rear	1/4" Collet	25,000	1/2" Carbide Bur 1" Mounted Wheel	0.8	0.36	6.0	152	1/4"

* Note: 12L10 and 12S10 have the same throttle configuration

The original language of this manual is English.

Product Safety Information:

Intended Use:

This pneumatic grinder is to be used only for removing material by utilizing appropriate abrasive wheels, rotary files or other material removal cutting devices.

For additional product safety information refer to Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG document GS-2013, General Safety Pneumatic Material Removal.

⚠ WARNING

The grinder must not be modified in any manner unless approved in writing by Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG. All safety devices must be properly installed and maintained in good working order.

EC Declaration of Conformity:

We affirm that this machine is in accordance with the following EC regulations (2006/42/EC). Applied harmonized standards are ISO 12100:2010.

The name, job function and address of the person authorized to compile the technical file.

Mr. Vishnu Irigireddy
Director of Global R&D- Mechanical Engineering
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072



Signature: Vishnu Irigireddy
Date: 06/24/2015

Noise and Vibration:

Sound Level: ≤ 81 dB(A)

Vibration: < 2.5 m/s2

Air Line Lubrication:

Use Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG's lightweight air tool oil 500021 (available in quantities shown in the following chart) or an SAE-5 lightweight spindle oil.

Part No.	Packaged	Designation
540397	1 Quart (0.94 liter)	Airlube 10W/NR-420LB DR
533485	1 US Gallon (3.78 liter)	Airlube 10W/NR-420LB DR

Air Supply Line:

Parameter	Description
Air Hose	Minimum inside diameter: 1/4" (6.4mm) Maximum length: 8.0' (2.4 m)
Working pressure range	Performance rated at: 90 psi (620 kPa)
Compressed air	Air quality according to ISO 8573-1, quality class 2.4.3 The compressed air must be clean and dry.

Service and Repair:

Tool service and repair should be performed by an authorized Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG Center. Refer to the last page of this manual for locations.

Disposal:



Observe local disposal guidelines for all components of this tool and its packaging.

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Front Exhaust Motor Assembly

"A"

Models
12L1000-36
12L1001-36
12L1003-36
12S1000-36
12S1003-36
12S1008-36
12L1045-36
12L1046-36

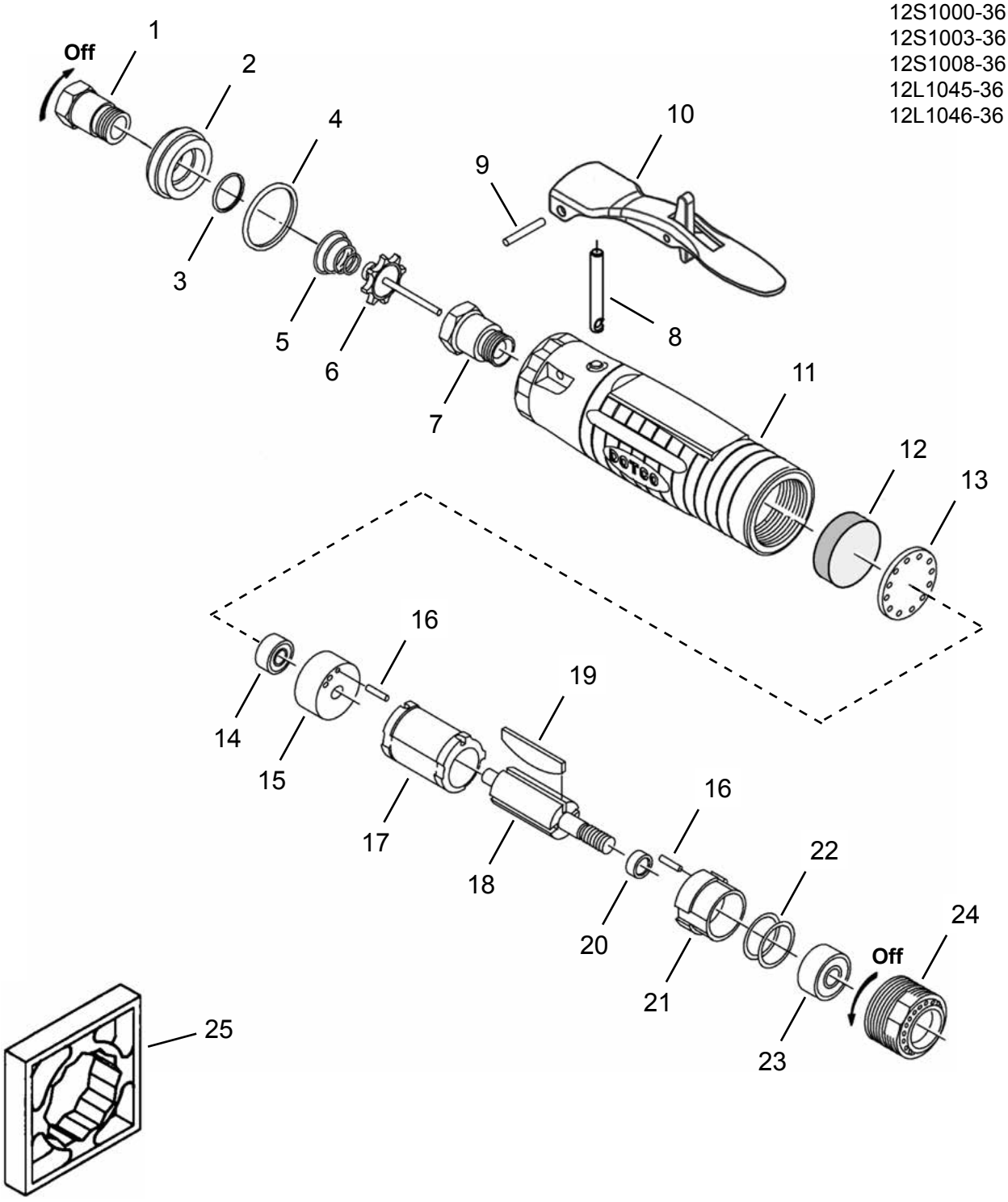


Illustration "A"

Ref	Number	#	X	EN Description
1	01-2505	1	1	Air Inlet Adapter
2	01-2506	1	1	Exhaust Plug
3	2965	1	3	O-Ring
4	3036PT	1	3	O-Ring
5	01-2519	1	3	Valve Spring
6	01-2518	1		Valve
7	01-2504	1		Valve Seat
8	01-1017	1		Push Rod
9	1042	1	1	Throttle Lever Pin
10	01-1267	1	1	Throttle Lever
11	01-1001	1		Motor Housing
12	01-1046	1	3	Filter Disc
13	01-1016	1	1	Filter Retainer
14	504PT	1	2	Ball Bearing
15	Table "A"	1		Rear Plate (includes 1 Ref. 16)
16	1041	2		Locating Pin
17	1002PT	1		Cylinder
18	Table "A"	1		Rotor
19	Table "A"	4	12	Rotor Blade
20	1017PT	1		Rotor Spacer
21	Table "A"	1		Front Plate (includes 1 Ref. 16)
22	1355	1		Shim Packet
23	538PT	1	2	Ball Bearing
24	Table "A"	1		Lock Ring
25	14-0851	1		Housing Wrench (not included with tool)

(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

Table "A"

Right Hand Rotation Models											
Ref.	**Description**	**#**	**12L1000-36 12S1000-36**	**#**	**12L1001-36**	**#**	**12L1003-36 12S1003-36**	**#**	**12S1008-36 12L1046-36**	**#**	**12L1045-36**
15	Rear Plate	1	1003PT	1	1003PT	1	1003PT	1	1003PT	1	1003PT
18	Rotor	1	1005S	1	02-1214S	1	1005S	1	1005S	1	1005S
19	Rotor Blade	4	1006PT	3	1006PT	4	1906PT	4	1906PT	4	1906PT
21	Front Plate	1	1004PT	1	1323	1	1004PT	1	1004PT	1	1004PT
24	Lock Ring	1	1014PT	1	1014PT	1	1951PT	1	2273PT	1	2172PT
Left Hand Rotation Models											
Ref.	**Description**	**#**	**12L1000-36LH**	**#**		**#**	**12L1003-36LH**	**#**		**#**	
15	Rear Plate		2157PT			1	2157PT				
18	Rotor		1005S			1	1005S				
19	Rotor Blade		1006PT			4	1906PT				
21	Front Plate		2158PT			1	2158PT				
24	Lock Ring		1014PT			1	1014PT				

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Rear Exhaust Motor Assembly

"B"

Models
12L1028-36
12S1028-36
12L1076-36OH
12L1080-36
12L1081-36
12L1082-14
12L1082-16
12L1082-36
12S1080-36
12S1081-36
12S1082-36

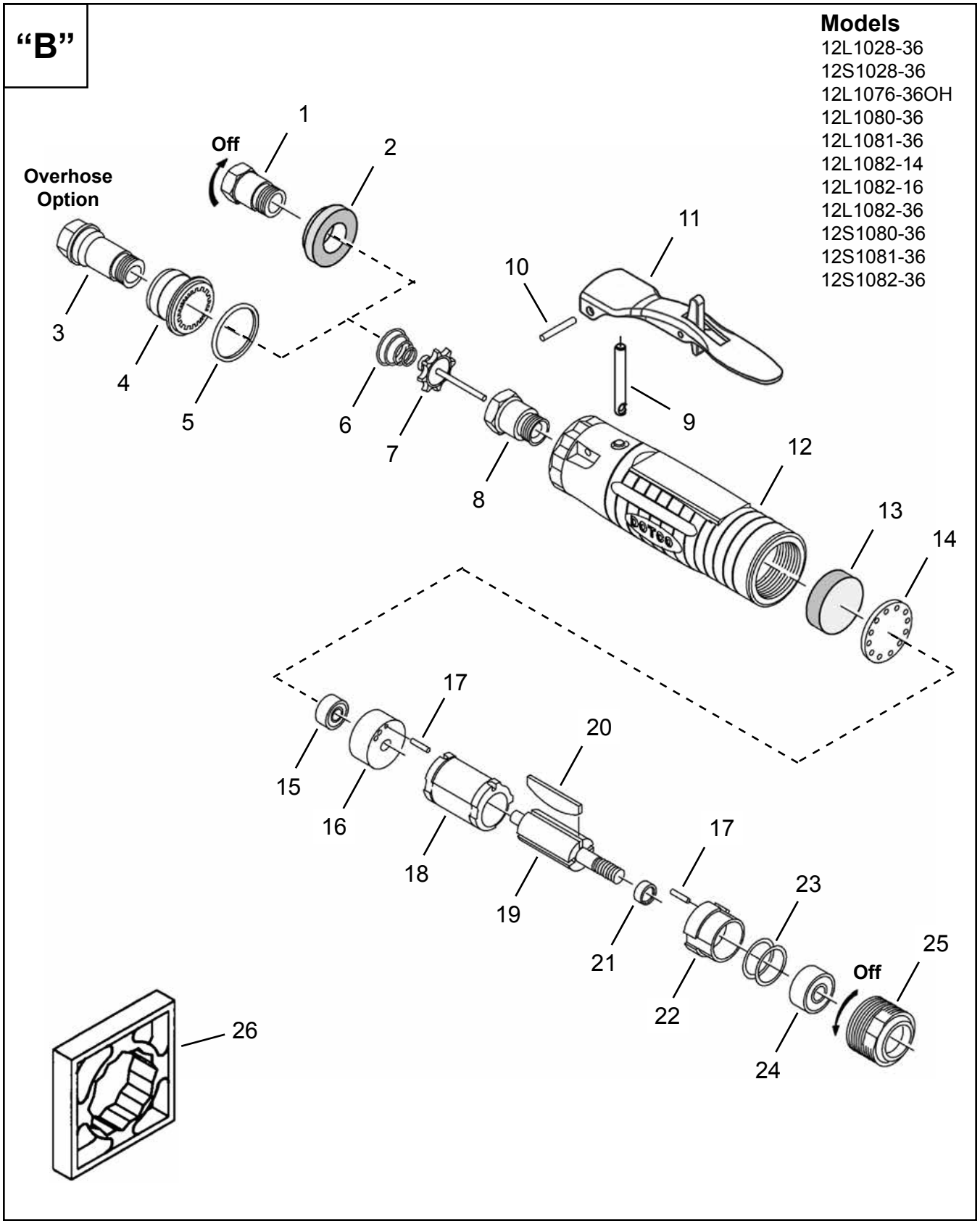


Illustration "B"

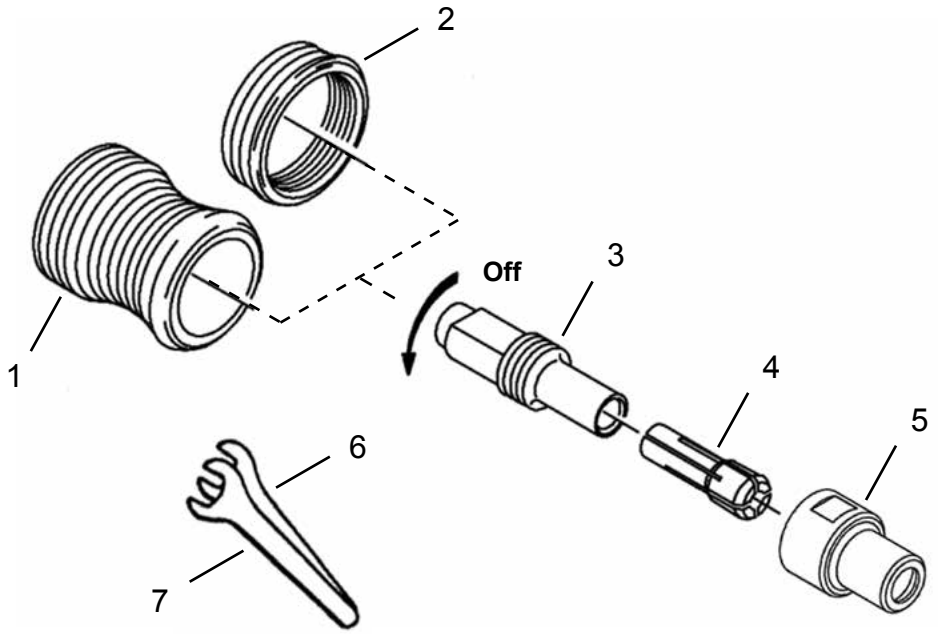
Ref	Number	#	X	EN Description
1	01-2505	1	1	Air Inlet Adapter (Rear Exhaust - no Overhose)
2	01-2520	1	1	Diffuser (Rear Exhaust - no Overhose)
3	01-1031	1	1	Air Inlet Adapter (Rear Exhaust - Overhose)
4	01-1032	1	1	Muffler (Rear Exhaust - Overhose)
5	3036PT	1	3	O-Ring (Rear Exhaust - Overhose)
6	01-2519	1	3	Valve Spring
7	01-2518	1		Valve
8	01-2504	1		Valve Seat
9	01-1017	1		Push Rod
10	1042	1	1	Throttle Lever Pin
11	01-1267	1	1	Throttle Lever
12	01-1001	1		Motor Housing
13	01-1046	1	3	Filter Disc
14	01-1016	1	1	Filter Retainer
15	504PT	1	2	Ball Bearing
16	Table "B"	1		Rear Plate (includes 1 Ref. 16)
17	1041	2		Locating Pin
18	1002PT	1		Cylinder
19	Table "B"	1		Rotor
20	Table "B"	4	12	Rotor Blade
21	1017PT	1		Rotor Spacer
22	Table "B"	1		Front Plate (includes 1 Ref. 16)
23	1355	1		Shim Packet
24	538PT	1	2	Ball Bearing
25	1045	1		Lock Ring
26	14-0851	1		Housing Wrench (not included with tool)
27	45-2687	1		Overhose Assembly - OH Models (4') (not shown)

(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

Table "B"

Ref.	Description	#	12L1080-36 12S1080-36	#	12L1081-36 12S1081-36	#	12S1028-36 12L1076-36OH 12L1082-14 12L1082-16 12L1082-36 12S1082-36	#	12S1028OHLH (Left Hand Rotation)
16	Rear Plate	1	1003PT	1	1003PT	1	1003PT	1	2157PT
19	Rotor	1	1005S	1	02-1214S	1	1005S	1	1005S
20	Rotor Blade	4	1006PT	3	1006PT	4	1906PT	4	1906PT
22	Front Plate	1	1004PT	1	1004PT	1	1004PT	1	2158PT

"C" Termination -36 (1/4" Collet)



"D" Terminations -14 and -16 (3" Cut-Off Wheel)

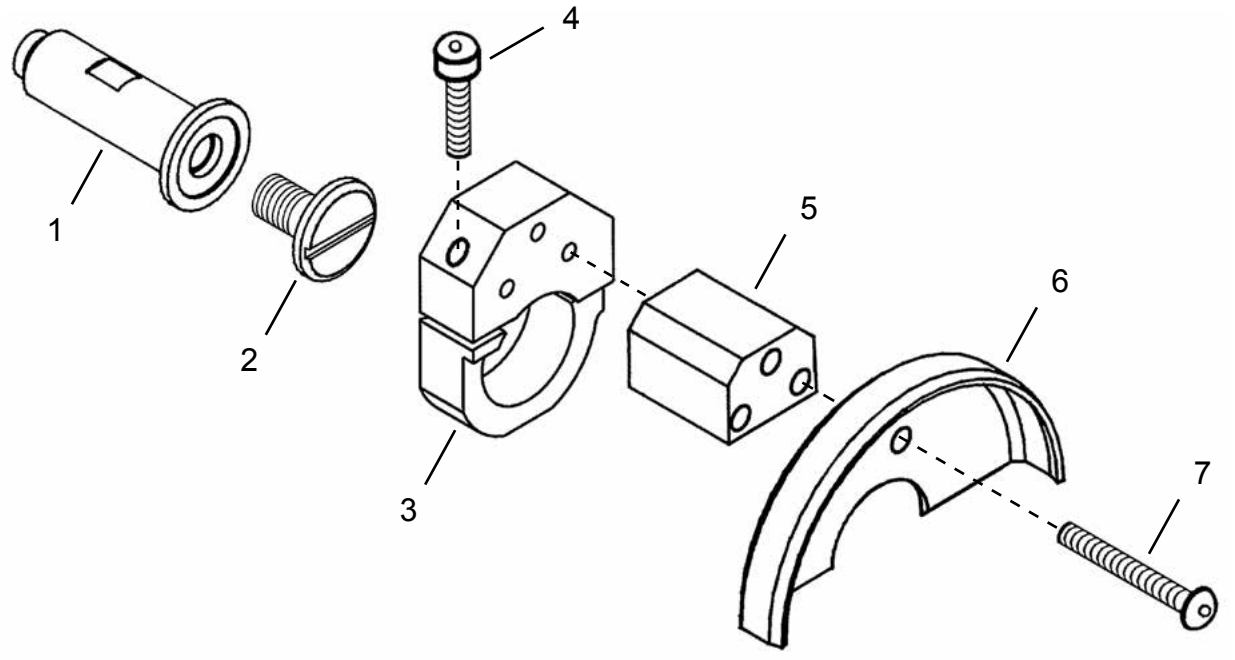


Illustration "C"

Ref	Number	#	X	EN Description
1	01-1047	1		Collet Guard (Long)
2	01-1050	1		Collet Guard (Short)
3	1054PT	1	2	Collet Chuck Body
4	308PT	1	2	Collet (1/4")
5	208196PT	1	2	Collet Nosepiece Cap
6	14-0807	1		Wrench (7/16")
7	14-0811	1		Wrench (11/16")

(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

Illustration "D"

Ref	Number	#	X	EN Description
1	14-1036	1		Cut-Off Wheel Adapter (Termination -14)
	14-1037	1		Cut-Off Wheel Adapter (Termination -16)
2	14-1038	1	1	Cut-Off Wheel Adapter Screw - 1/4-20 (Termination -14)
	14-1039	1	1	Cut-Off Wheel Adapter Screw - 3/8-24 (Termination -16)
--	14-1018	1		3" Cut-Off Wheel Guard (includes Ref. 3-7)
3	14-1040	1		Guard Clamp
4	14-1108	1	1	Socket Head Cap Screw (#10-32 x .75)
5	14-1041	1		Guard Spacer
6	14-1258S	1		3" Type 1 Guard Hood
7	14-1042	3	3	Button Head Cap Screw (#10-32 x 1.5)

(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

POWER TOOLS SALES & SERVICE CENTERS

Please note that all locations may not service all products.
Contact the nearest Apex Tool Group Sales & Service Center for the appropriate facility to handle your service requirements.

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