

Parts Manual
45-8206EN
03/30/2016

OMEGA TECHNOLOGIES

DOTCO®

12-13 Series
Vertical Grinders, Sanders, and Routers



For additional product information visit our website at:

<https://dotcotool.com/product-category/dotco-air-tools/dotco-grinders/dotco-right-angle-grinders/dotco-12-13-series-right-angle-grinders/>

	12	X	1	3	XX	-	XX	XX	OH								
<u>Product Classification</u> 12 = Ergonomic Tool																	
<u>Throttle Type</u> L = Locking Lever S = Locking Lever																	
<u>Motor Size</u> 1 = 0.3 hp																	
<u>Handle Style</u> 3 = Right Angle Gearless																	
<u>Speed Options (RPM)</u> <table border="0"> <thead> <tr> <th>Front Exhaust</th> <th>Rear Exhaust</th> </tr> </thead> <tbody> <tr> <td>00 = 30,000</td> <td>80 = 30,000</td> </tr> <tr> <td>01 = 25,000</td> <td>81 = 25,000</td> </tr> <tr> <td>02 = 20,000</td> <td>82 = 20,000</td> </tr> </tbody> </table>										Front Exhaust	Rear Exhaust	00 = 30,000	80 = 30,000	01 = 25,000	81 = 25,000	02 = 20,000	82 = 20,000
Front Exhaust	Rear Exhaust																
00 = 30,000	80 = 30,000																
01 = 25,000	81 = 25,000																
02 = 20,000	82 = 20,000																
<u>Primary Termination Code</u> 30 = 1/4"-20 External Thread Spindle 32 = 1/4"-28 Internal Thread Spindle 36 = 300 Series 1/4" Collet (3-piece) 45 = Universal 1/4" Collet Spindle																	
<u>Extended Termination Code</u> B1 = Belt Sander (1/4" x 12") B2 = Belt Sander (1/2" x 12") B3 = Belt Sander (1/2" x 24") B4 = Belt Sander (1" x 12") B5 = Belt Sander (1" x 24") RT = Router																	
<u>Overhose Option (extra cost)</u> OH = Overhose (rear exhaust models only)																	

The original language of this manual is English.

Product Safety Information:

Intended Use:

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

For product safety information and requirements for grinding without a wheel guard refer to Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG documents:

GS-2007, General Safety Pneumatic Grinders
CE-2012, General Safety Sanders
CE-2013, General Safety Material Removal Tools

WARNING

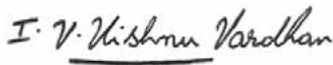
This product must not be modified in any manner unless approved in writing by Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG. All safety devices must be properly installed and maintained in good working order.

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 12100:2010-11.

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: 03/30/2016

Noise and Vibration:

Sound Level:

12(-)13 Front Exhaust ≤ 75 dB(A)
12(-)13 Rear Exhaust ≤ 75 dB(A)

Vibration:

12(-)13 Front Exhaust < 2.5 m/s²
12(-)13 Rear Exhaust < 2.5 m/s²

Air Line Lubrication:

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

Part No.	Packaged	Designation
45-0918	1 Quart (0.94 liter)	Air Line Oil
45-0919	1 US Gallon (3.78 liter)	Air Line Oil

Air Supply Line:

Parameter	Description
Air Hose	Minimum inside diameter: 1/4" (4.8mm) 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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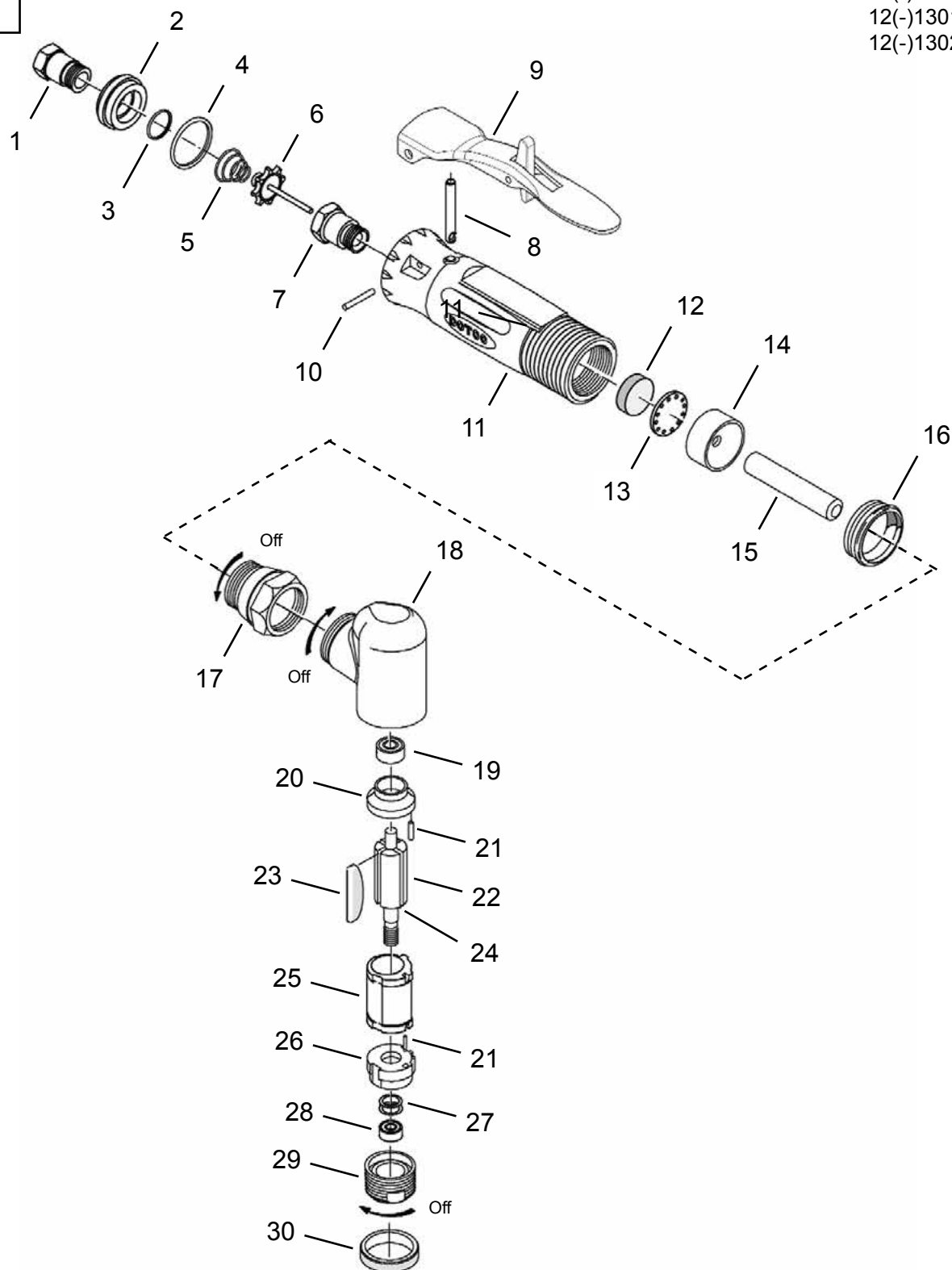
Handle and Motor Assembly - Front Exhaust

"A"**Models**

12(-)1300

12(-)1301

12(-)1302



Handle and Motor Assembly - Front Exhaust

Illustration "A" - Front Exhaust Models

Ref	Number	#	X	EN
				Description
1	01-2505	1	1	Air Inlet Adapter
2	01-2506	1		Exhaust Plug
3	2965	1	3	O-Ring (.750" OD)
4	3036PT	1	3	O-Ring (1.254" OD)
5	01-2519	1	3	Throttle Valve Spring
6	01-2518	1		Throttle Valve
7	01-2504	1		Throttle Valve Seat
8	01-1017	1		Throttle Valve Push Rod
9	01-1267	1	1	Lock Off Lever Assembly
10	1042	1	1	Lever Pin
11	01-1001	1		Motor Housing
12	01-1046	1	3	Filter Disc
13	01-1016	1	2	Filter Retainer
14	01-1383	1		Inlet Adapter
15	Table "A"	1		Inlet Tube
16	01-1045	1		Lock Ring Sleeve
17	01-1044	1		Lock Ring
18	01-1381	1		Angle Housing
19	504PT	1	2	Ball Bearing
20	01-1373	1		Rear Bearing Plate (includes 1 Ref. 21)
21	1041	2	4	Locating Pin
22	Table "A"	1		Rotor
23	Table "A"	4/5	12/15	Rotor Blade
24	1017PT	1	1	Rotor Spacer
25	1002PT	1		Cylinder
26	1004PT	1		Front Bearing Plate (includes 1 Ref. 21)
27	1355	1		Shim Packet
28	538PT	1	2	Ball Bearing
29	Table "A" *	1		Lock Ring
30	1272 **	1		Thread Guard

(#) Quantity

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

* Note: Not used with Belt Sanding attachments - B1, B2, B3, B4, and B5

** Note: Not used with Belt Sanding attachments - B1, B2, B3, B4, and B5 or Router attachment - RT

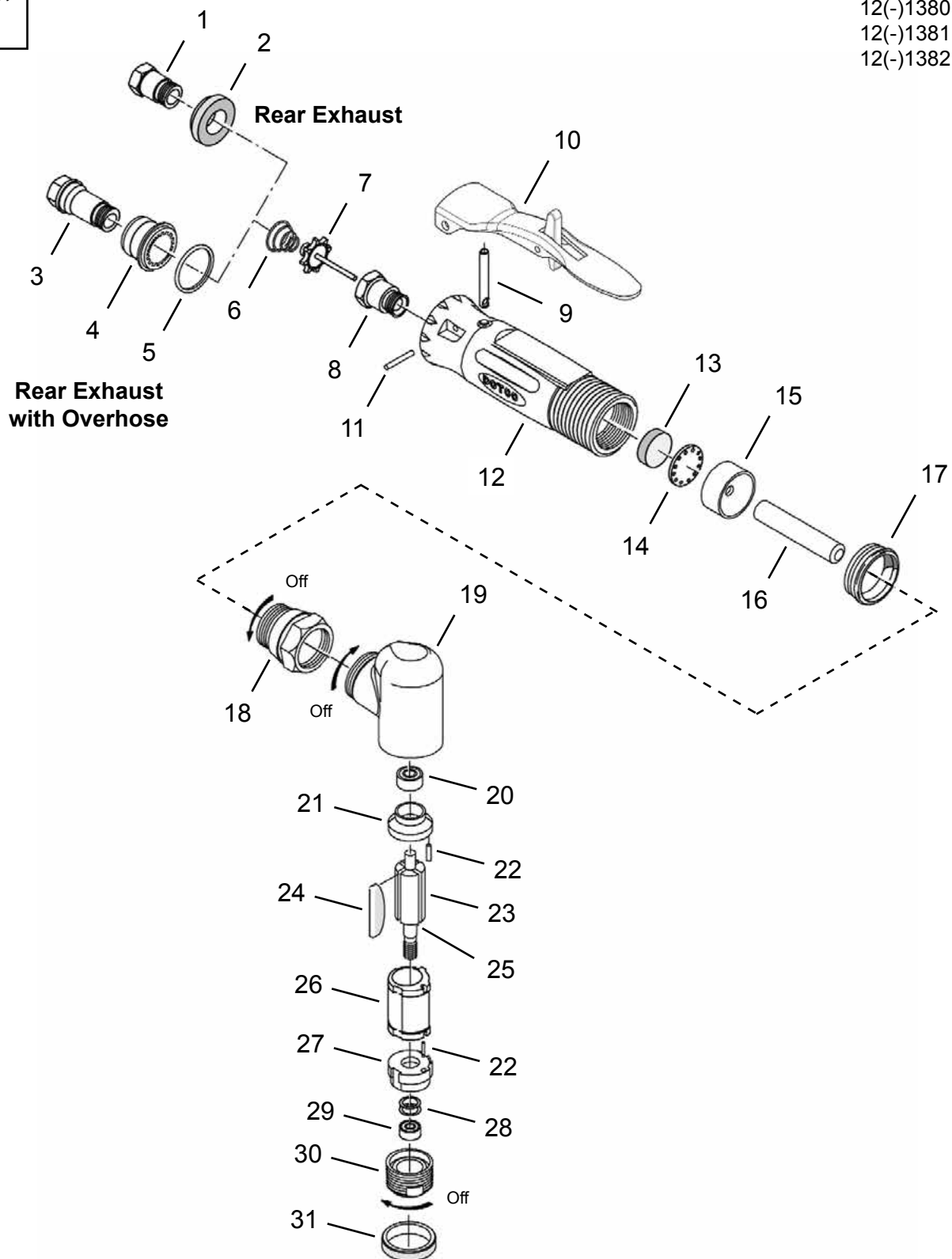
Table "A"

Ref.	Description	#	12(-)1300	#	12(-)1301	#	12(-)1302
15	Inlet Tube	1	01-1382	1	01-1382	1	01-1380
22	Rotor	1	1005S	1	1005S	1	02-1213S
23	Rotor Blade	4	1006PT	4	1906PT	5	1906PT
29	Lock Ring	1	1014PT	1	1014PT	1	2273PT

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Handle and Motor Assembly - Rear Exhaust

"B"

Models
12(-)1380
12(-)1381
12(-)1382



Handle and Motor Assembly - Rear Exhaust

Illustration "B" - Rear Exhaust Models

Ref	Number	#	X	EN
				Description
1	01-2505	1	1	Air Inlet Adapter
2	01-2520	1	1	Diffuser
3	01-1031	1	1	Air Inlet Adapter (overhose)
4	01-1032	1		Muffler (overhose)
5	3036PT	1	3	O-Ring (1.254" OD)
6	01-2519	1	3	Throttle Valve Spring
7	01-2518	1		Throttle Valve
8	01-2504	1		Throttle Valve Seat
9	01-1017	1		Throttle Valve Push Rod
10	01-1267	1	1	Lock Off Lever Assembly
11	1042	1	1	Lever Pin
12	01-1001	1		Motor Housing
13	01-1046	1	3	Filter Disc
14	01-1016	1	2	Filter Retainer
15	01-1383	1		Inlet Adapter
16	Table "A"	1		Inlet Tube
17	01-1045	1		Lock Ring Sleeve
18	01-1044	1		Lock Ring
19	01-1381	1		Angle Housing
20	504PT	1	2	Ball Bearing
21	01-1373	1		Rear Bearing Plate (includes 1 Ref. 22)
22	1041	2	4	Locating Pin
23	Table "A"	1		Rotor
24	Table "A"	4/5	12/15	Rotor Blade
25	1017PT	1	1	Rotor Spacer
26	1002PT	1		Cylinder
27	1004PT	1		Front Bearing Plate (includes 1 Ref. 22)
28	1355	1		Shim Packet
29	538PT	1	2	Ball Bearing
30	1045 *	1		Lock Ring
31	1272 **	1		Thread Guard

(#) Quantity

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

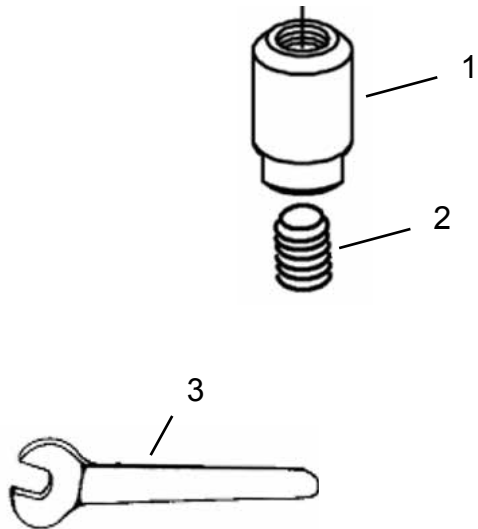
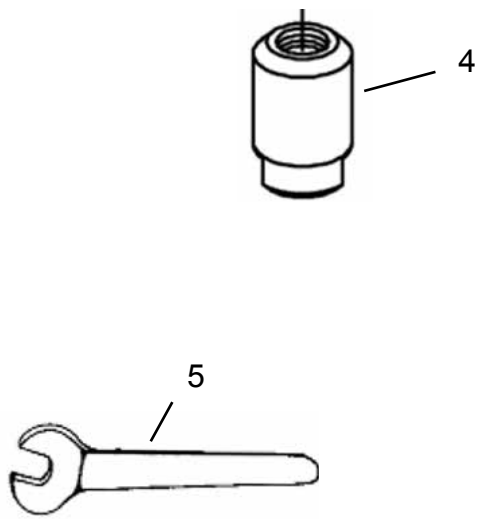
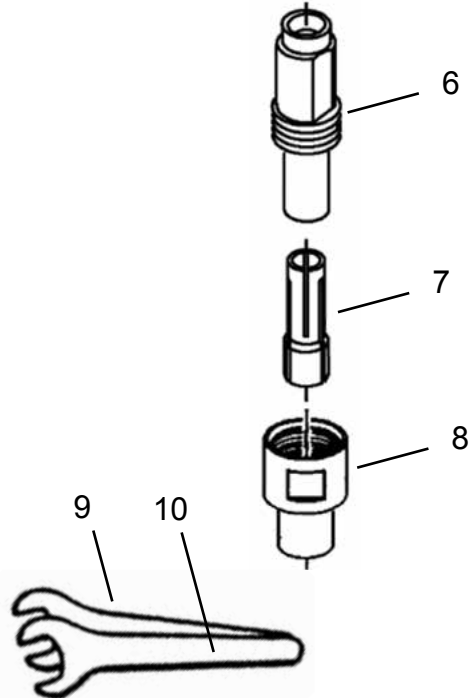
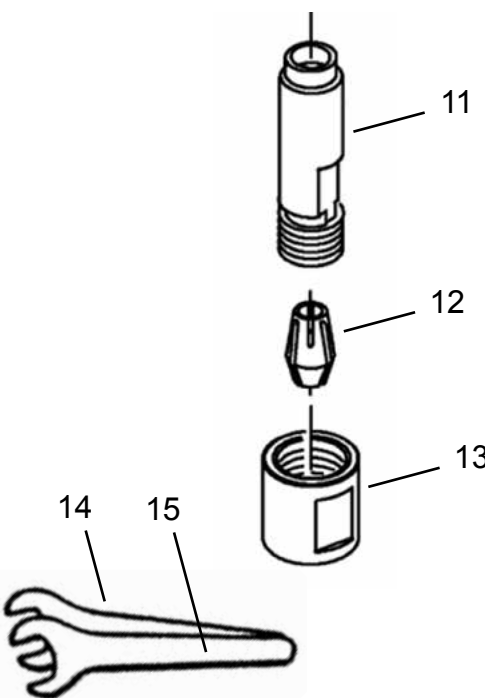
* Note: Not used with Belt Sanding attachments - B1, B2, B3, B4, and B5

** Note: Not used with Belt Sanding attachments - B1, B2, B3, B4, and B5 or Router attachment - RT

Table "B"

Ref.	Description	#	12(-)1380	#	12(-)1381	#	12(-)1382
16	Inlet Tube	1	01-1382	1	01-1382	1	01-1380
23	Rotor	1	1005S	1	1005S	1	02-1213S
24	Rotor Blade	4	1006PT	4	1906PT	5	1906PT

Dotco®
Primary Terminations

“C” Termination -30 (1/4"-20 External Thread)  The diagram shows the assembly for Termination -30. It includes a female fitting (1) with a 1/4"-20 external thread, a male fitting (2) with a 1/4"-20 external thread, and a wrench (3) used to tighten the assembly.	Termination -32 (1/4"-28 Internal Thread)  The diagram shows the assembly for Termination -32. It includes a female fitting (4) with a 1/4"-28 internal thread and a wrench (5) used to tighten the assembly.
Termination -36 (300 Series Collet)  The diagram shows the assembly for Termination -36. It includes a female fitting (6) with a 300 Series Collet, a male fitting (7) with a 300 Series Collet, a female fitting (8) with a 300 Series Collet, and a wrench (9) used to tighten the assembly. The wrench (10) is also shown.	Termination -45 (Universal Collet)  The diagram shows the assembly for Termination -45. It includes a female fitting (11) with a Universal Collet, a male fitting (12) with a Universal Collet, a female fitting (13) with a Universal Collet, and a wrench (14) used to tighten the assembly. The wrench (15) is also shown.

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Primary Terminations

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Illustration "C" - Spindle Terminations

Ref	Number	#	X	EN
				Description
Termination: -30 (1/4" - 20 External Thread Spindle)				
1	01-1388	1		Spindle Adapter (includes Ref. 2)
2	4212PT	1	2	Screw
3	14-0808	1		Wrench (1/2")
Termination: -32 (1/4" - 28 Internal Thread Spindle)				
4	01.1389	1		Spindle Adapter
5	14-0808	1		Wrench (1/2")
Termination: -36 (300 Series Collet)				
6	1054PT	1		Chuck Body
7	Table "C1"	1	2	Collet (1/4" Standard)
8	208196PT	1		Nosepiece Cap
9	14-0807	1		Wrench (7/16")
10	14-0811	1		Wrench (11/16")
Termination: -45 (Universal Collet)				
11	01-1274	1		Chuck Body
12	Table "C2"	1	2	Collet (1/4")
13	1011116	1	2	Collet Nut
14	14-0807	1		Wrench (7/16")
15	14-0811	1		Wrench (11/16")

(#) Quantity

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

Table "C1"

300 Series Optional Collets					
Part No.	Arbor Size	Part No.	Arbor Size	Part No.	Arbor Size
301PT	3/64"	305PT	5/32"	310PT	6mm
302PT	5/64"	306PT	3/16"		
303	3/32"	308PT *	1/4"		
304PT	1/8"	311	3mm		

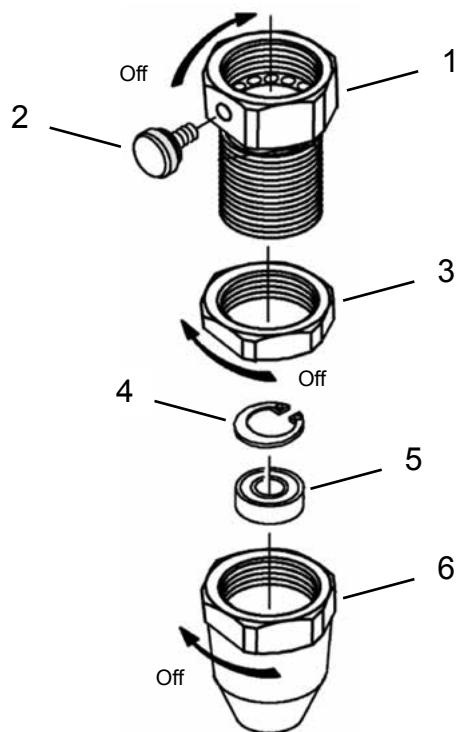
* Standard Collet

Table "C2"

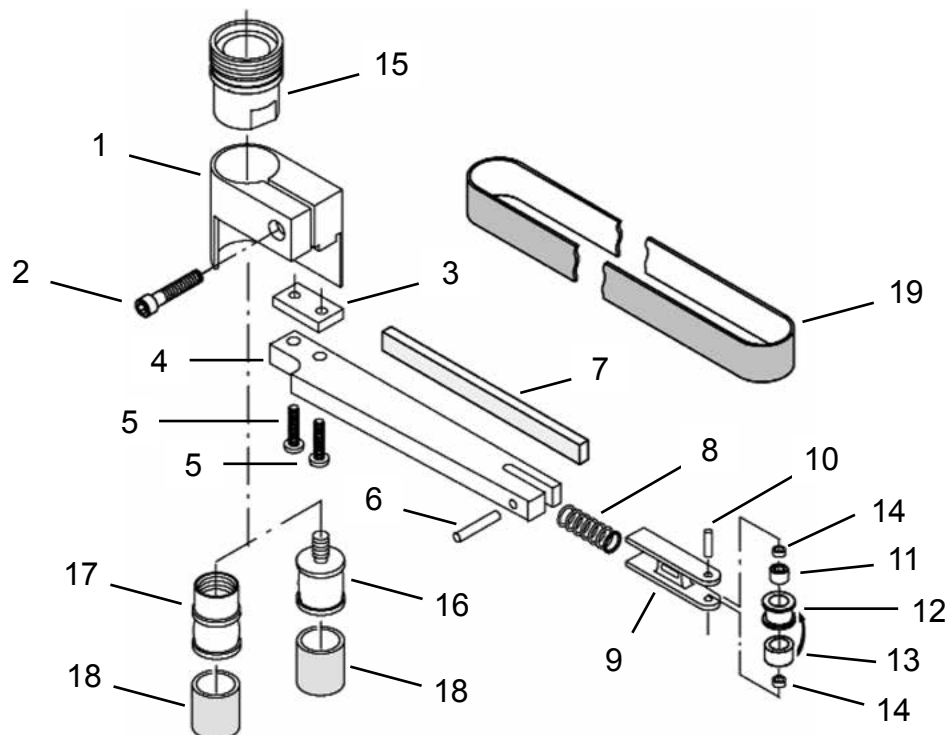
Universal Series Optional Collets					
Part No.	Arbor Size	Part No.	Arbor Size	Part No.	Arbor Size
7809	1/8"	7811	6mm		
7812	3/16"				
7808PT *	1/4"				
7810PT	3mm				

* Standard Collet

“D” Termination -RT (Router)



“E” Termination -B1 (1/4" x 12" Belt Sander)



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Extended Terminations

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Illustration "D" - Router Termination (36RT)

Ref	Number	#	X	EN
				Description
--	14-2187	1		Router Assembly (includes Ref. 1-6)
1	14-1180S	1		Router Housing
2	14-2171	1	1	Lock Screw
3	14-2082	1		Lock Ring
--	14-2177	1		Router Housing Assembly (includes Ref. 4-6)
4	1098	1	2	Retaining Ring
5	14-0508	1	2	Ball Bearing
6	14-2176	1		Router Housing

(#) Quantity

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

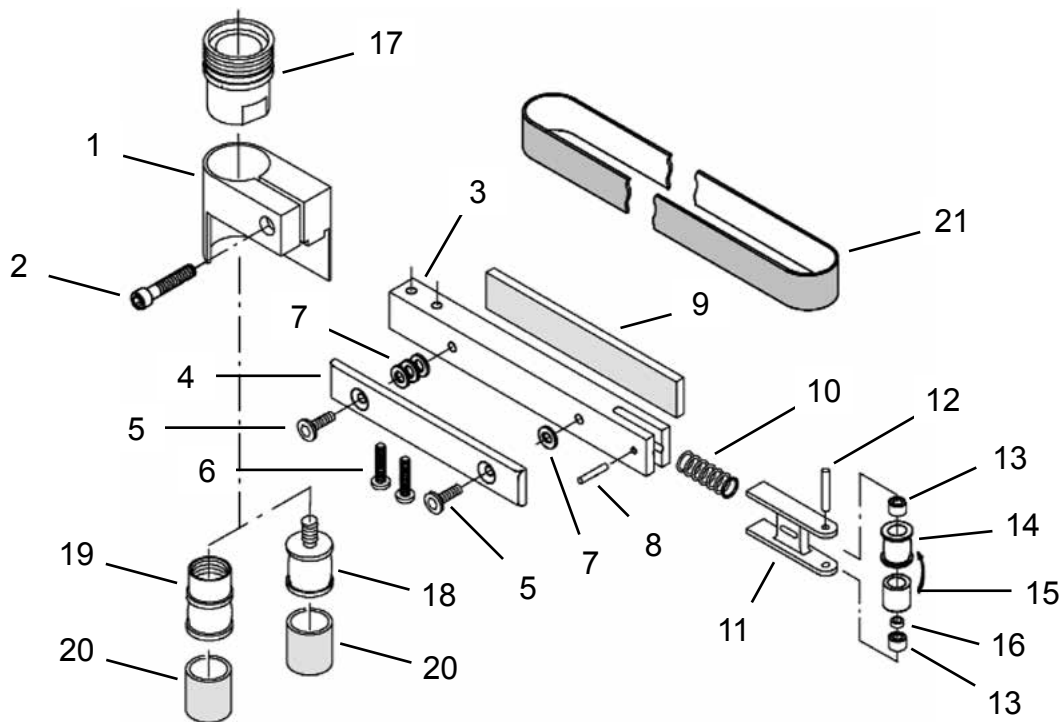
Illustration "E" - Belt Sander Termination B1

Ref	Number	#	X	EN
				Description
--	14-1638S	1		Belt Sander Assembly (includes Ref. 1-14)
1	14-1297	1		Guard
2	2826PT	1	1	Screw
3	14-1619	1		Spacer
4	14-1597	1		Boom
5	1900PT	2	4	Screw
6	1833PT	1		Pin
7	14-1343	1	1	Cushioned Platen
8	1904PT	1	2	Yoke Spring
9	14-1617	1		Yoke
10	1831PT	1	1	Yoke Pin
--	14-1602	1	1	Wheel Assembly (includes Ref. 11-13)
11	564PT	1	2	Ball Bearing
12	14-1604	1	1	Wheel (includes Ref. 13)
13	14-1616	1	3	Tire
14	14-1618	2		Spacer
15	01-1375	1		Lock Ring (32B1 Termination)
	01-1374	1		Lock Ring (36B1 Termination)
16	14-1308	1	1	Drive Wheel (32B1 Termination) (includes Ref. 18)
17	01-1377	1	1	Drive Wheel (36B1 Termination) (includes Ref. 18)
18	14-1304	1	3	Tire
19	14-1591	1	6	Sanding Belt (80 Grit)
	14-1593	1	6	Sanding Belt (120 Grit)

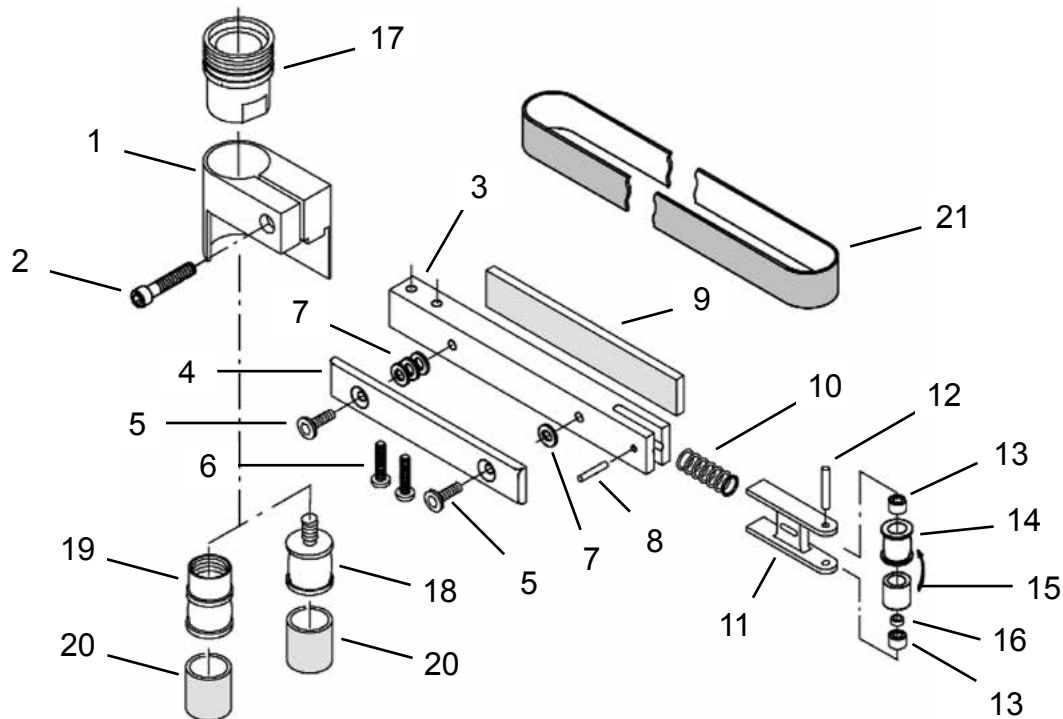
(#) Quantity

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

“F” Termination -B2 (1/2" x 12" Belt Sander)



“G” Termination -B3 (1/2" x 24" Belt Sander)



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Illustration "F" - Belt Sander Termination B2

Ref	Number	#	X	EN
				Description
--	14-1301S	1		Belt Sander Assembly (includes Ref. 1-16)
1	14-1297	1		Guard
2	2826PT	1	1	Screw
3	14-1298	1		Boom
4	14-1293	1		Steel Platen
5	1902PT	2	4	Screw
6	1900PT	2	4	Screw
7	1901	4	12	Nylon Washer
8	1833PT	1		Pin
9	14-1338	1	1	Cushioned Platen
10	1904PT	1	2	Yoke Spring
11	14-1296	1		Yoke
12	1903PT	1	1	Yoke Pin
--	14-1311	1	1	Wheel Assembly (includes Ref. 13-16)
13	564PT	2	4	Ball Bearing
14	14-1312	1	1	Wheel (includes Ref. 15)
15	14-1305	1	3	Tire
16	1345PT	1		Spacer
17	01-1375	1		Lock Ring (32B2 Termination)
	01-1374	1		Lock Ring (36B2 Termination)
18	14-1308	1	1	Drive Wheel (32B2 Termination) (includes Ref. 20)
19	01-1377	1	1	Drive Wheel (36B2 Termination) (includes Ref. 20)
20	14-1304	1	3	Tire
21	14-1348	1	6	Sanding Belt (80 Grit)
	14-1352	1	6	Sanding Belt (120 Grit)

(#) Quantity

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

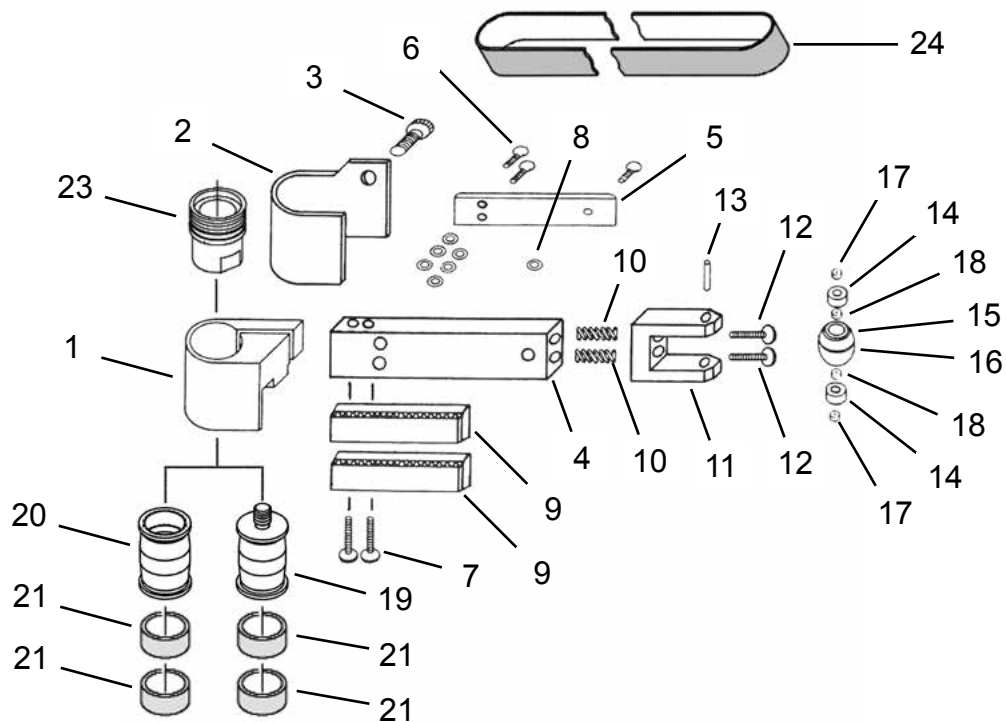
Illustration "G" - Belt Sander Termination B3

Ref	Number	#	X	EN
				Description
--	14-1318S	1		Belt Sander Assembly (includes Ref. 1-16)
1	14-1297	1		Guard
2	2826PT	1	1	Screw
3	14-1320	1		Boom
4	14-1314	1		Steel Platen
5	1902PT	2	4	Screw
6	1900PT	2	4	Screw
7	1901	4	12	Nylon Washer
8	1833PT	1		Pin
9	14-1341	1	1	Cushioned Platen
10	1904PT	1	2	Yoke Spring
11	14-1296	1		Yoke
12	1903PT	1	1	Yoke Pin
--	14-1311	1	1	Wheel Assembly (includes Ref. 13-16)
13	564PT	2	4	Ball Bearing
14	14-1312	1	1	Wheel (includes Ref. 15)
15	14-1305	1	3	Tire
16	1345PT	1		Spacer
17	01-1375	1		Lock Ring (32B3 Termination)
	01-1374	1		Lock Ring (36B3 Termination)
18	14-1308	1	1	Drive Wheel (32B3 Termination) (includes Ref. 20)
19	01-1377	1	1	Drive Wheel (36B3 Termination) (includes Ref. 20)
20	14-1304	1	3	Tire
21	14-1368	1	6	Sanding Belt (80 Grit)
	14-1372	1	6	Sanding Belt (120 Grit)

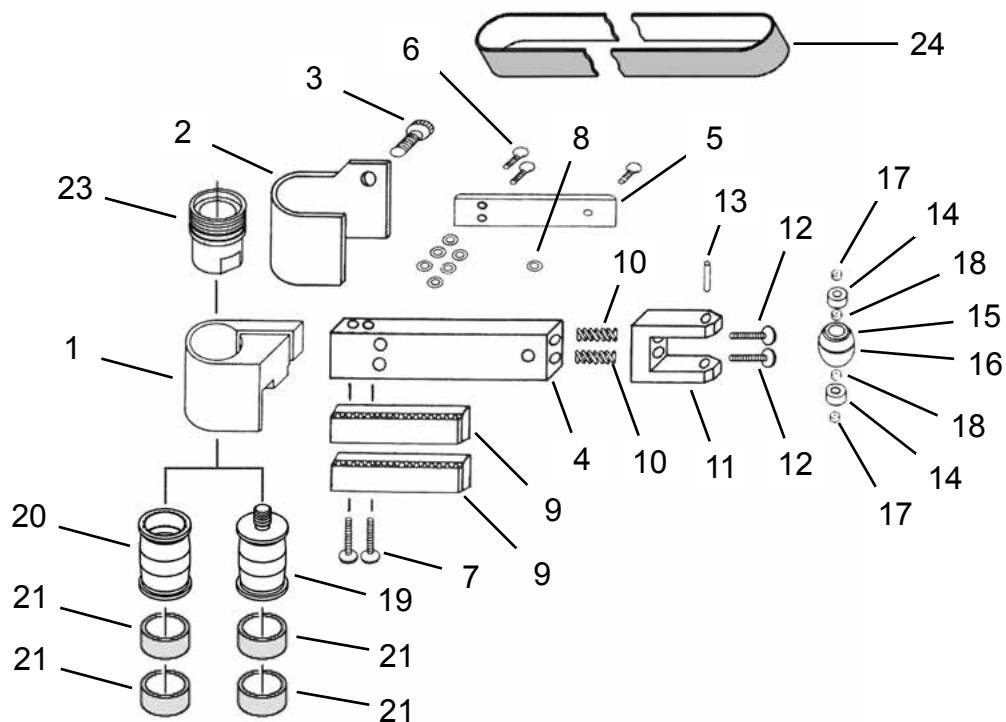
(#) Quantity

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

“H” Termination -B4 (1” x 12” Belt Sander)



“I” Termination -B5 (1” x 24” Belt Sander)



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Extended Terminations

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Illustration "H" - Belt Sander Termination B4

Ref	Number	#	X	EN
				Description
--	14-1463	1		Belt Sander Assembly (32B4 Termination) (includes Ref. 1-22)
--	14-1473	1		Belt Sander Assembly (36B4 Termination) (includes Ref. 1-22)
1	14-1356	1		Guard
2	14-1471	1		Guard
3	14-1498	1	1	Screw
4	14-1464	1		Boom
5	14-1466	1		Steel Platen
6	1902PT	3	6	Screw
7	7731	2	4	Screw
8	1901	7	14	Nylon Washer
9	14-1338	2	2	Cushioned Platen
10	14-1478	2	4	Yoke Spring
11	14-1465	1		Yoke
12	2193PT	2	4	Yoke Screw
13	14-3036	1	1	Yoke Pin
--	14-1472	1	1	Wheel Assembly (includes Ref. 14-18)
14	564PT	2	4	Ball Bearing
15	14-1469	1	1	Wheel (includes Ref. 16)
16	14-1305	2	6	Tire
17	14-1467	2		Spacer
18	1345PT	2		Spacer
19	14-1468	1	1	Drive Wheel (32B4 Termination) (includes Ref. 21)
20	14-1470	1	1	Drive Wheel (36B4 Termination) (includes Ref. 21)
21	14-1304	2	6	Tire
22	14-0184PT	1		Wrench (1/8") (not shown)
23	01-1375	1		Lock Ring (32B4 Termination)
	01-1374	1		Lock Ring (36B4 Termination)
24	14-1583	1	6	Sanding Belt (80 Grit)
	14-1585	1	6	Sanding Belt (120 Grit)

(#) Quantity

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

Illustration "I" - Belt Sander Termination B5

Ref	Number	#	X	EN
				Description
--	14-1603	1		Belt Sander Assembly (32B5 Termination) (includes Ref. 1-22)
--	14-1613	1		Belt Sander Assembly (36B5 Termination) (includes Ref. 1-22)
1	14-1356	1		Guard
2	14-1471	1		Guard
3	14-1498	1	1	Screw
4	14-1614	1		Boom
5	14-1615	1		Steel Platen
6	1902PT	3	6	Screw
7	7731	2	4	Screw
8	1901	7	14	Nylon Washer
9	14-1341	2	2	Cushioned Platen
10	14-1478	2	4	Yoke Spring
11	14-1465	1		Yoke
12	2193PT	2	4	Yoke Screw
13	14-3036	1	1	Yoke Pin
--	14-1472	1	1	Wheel Assembly (includes Ref. 14-18)
14	564PT	2	4	Ball Bearing
15	14-1469	1	1	Wheel (includes Ref. 16)
16	14-1305	2	6	Tire
17	14-1467	2		Spacer
18	1345PT	2		Spacer
19	14-1468	1	1	Drive Wheel (32B5 Termination) (includes Ref. 21)
20	14-1470	1	1	Drive Wheel (36B5 Termination) (includes Ref. 21)
21	14-1304	2	6	Tire
22	14-0184PT	1		Wrench (1/8") (not shown)
23	01-1375	1		Lock Ring (32B4 Termination)
	01-1374	1		Lock Ring (36B4 Termination)
24	14-1643	1	6	Sanding Belt (80 Grit)
	14-1645	1	6	Sanding Belt (120 Grit)

(#) 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.

NORTH AMERICA | SOUTH AMERICA

Detroit, Michigan

Apex Tool Group
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