

Parts Manual  
45-8206EN  
03/30/2016

# DOTCO®

**12-13 Series**  
Vertical Grinders, Sanders, and Routers



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

**Dotco®**  
Nomenclature

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

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



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/s<sup>2</sup>
- 12(-)13 Rear Exhaust < 2.5 m/s<sup>2</sup>

**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.

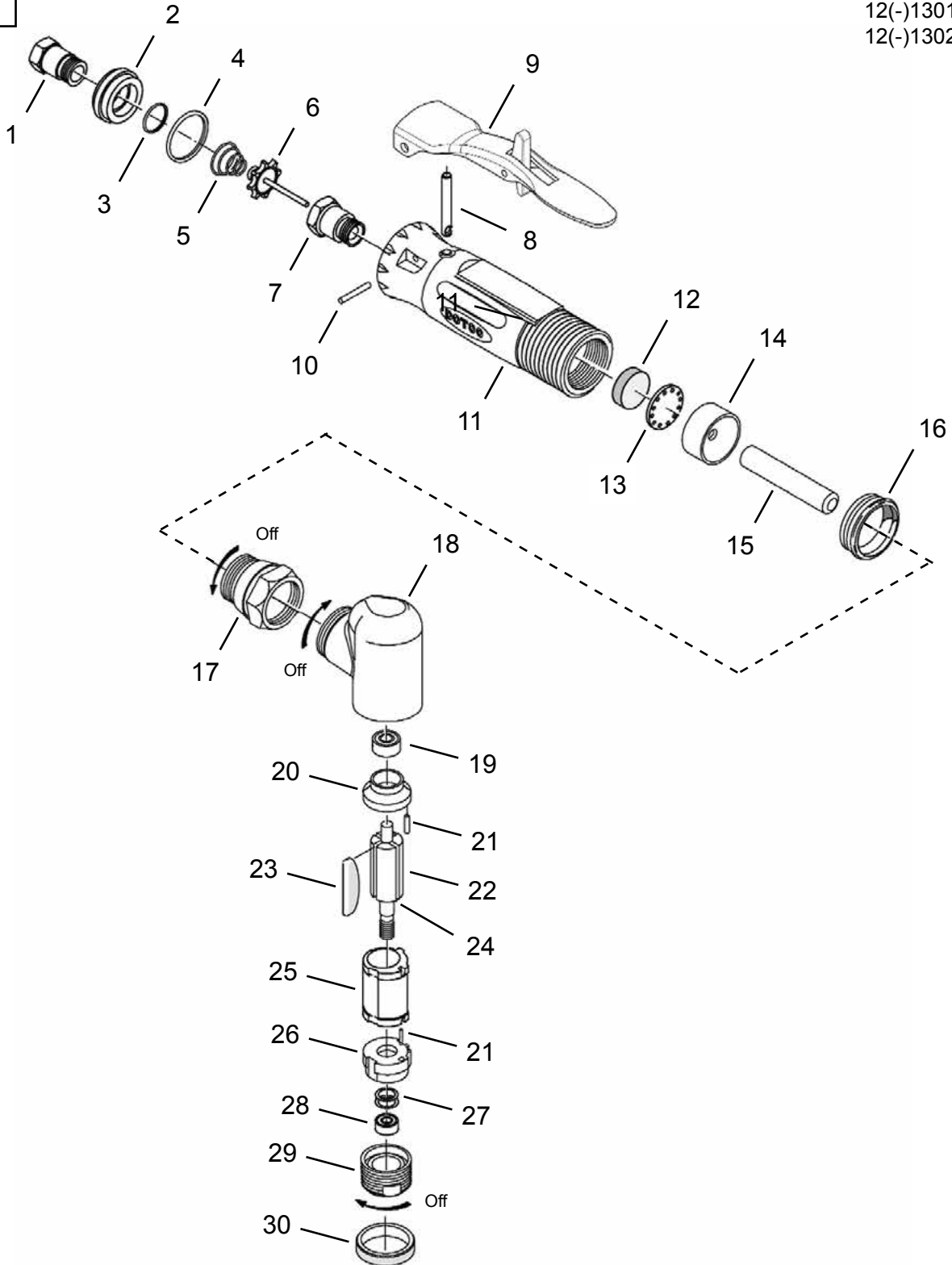
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# Dotco® Handle and Motor Assembly - Front Exhaust

**Models**  
12(-)1300  
12(-)1301  
12(-)1302

**“A”**



**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

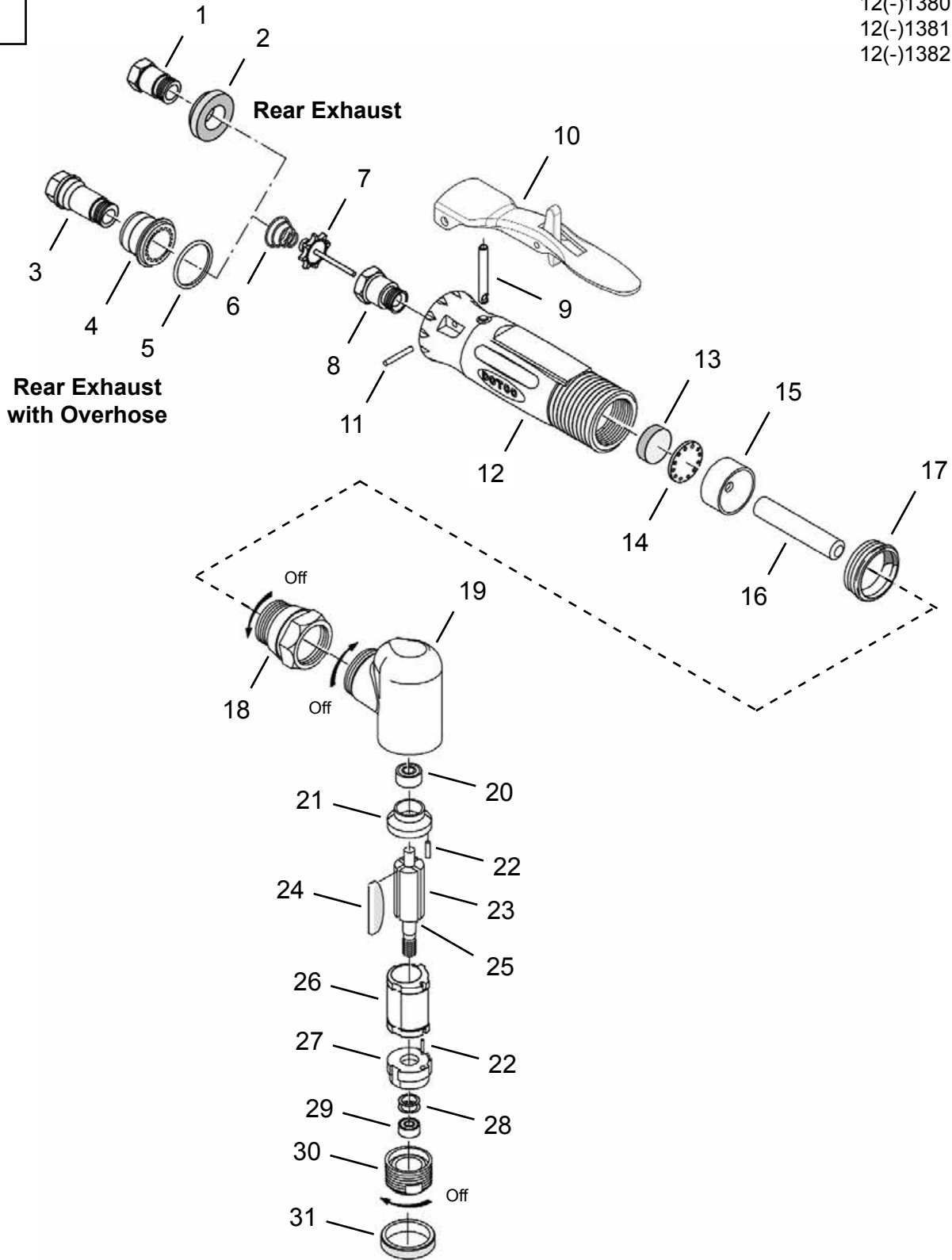
**Table "A"**

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

**Dotco®**  
Handle and Motor Assembly - Rear Exhaust

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

**“B”**



**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

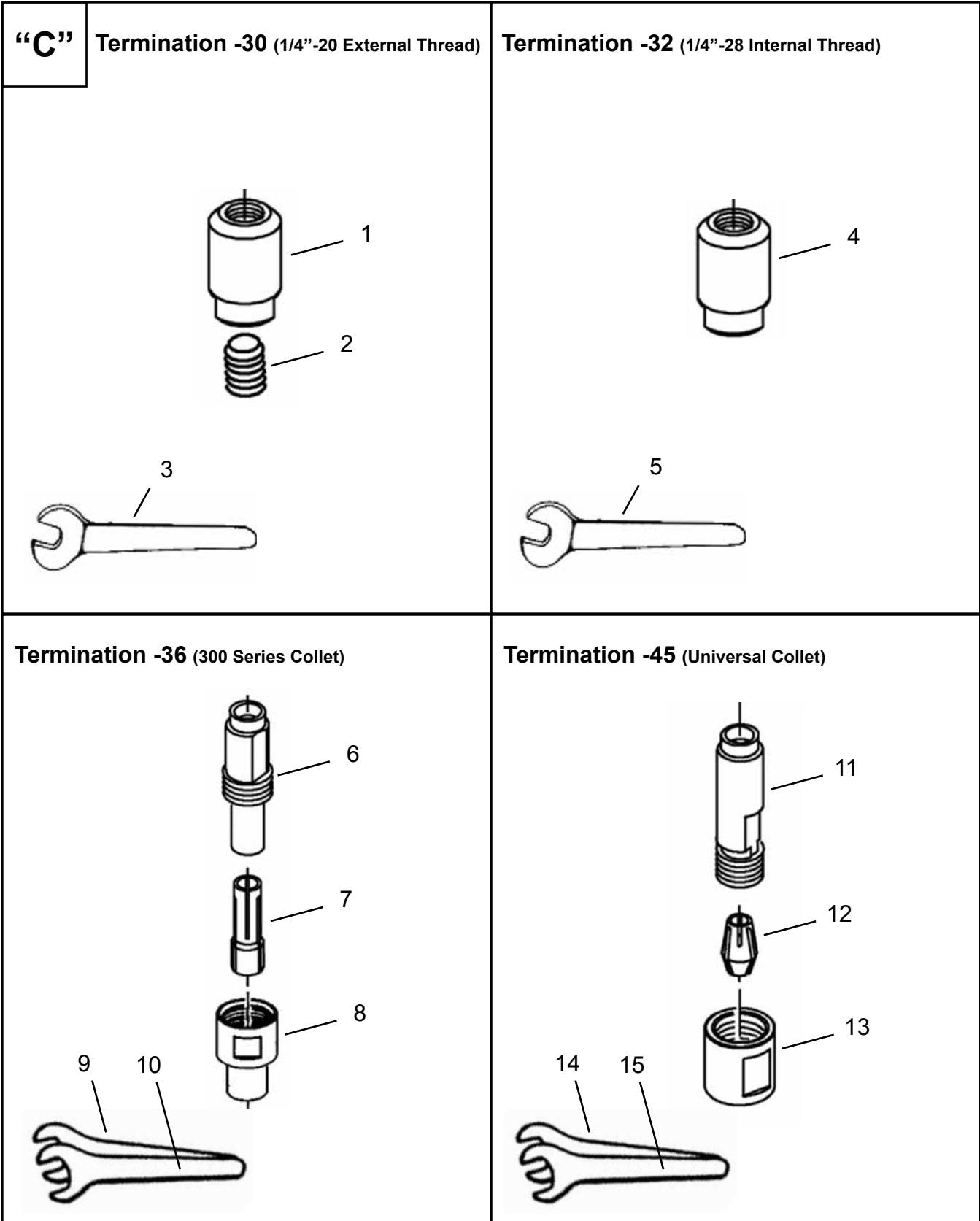
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

\* 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

**45-8206EN**  
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**Illustration "C" - Spindle Terminations**

Ref	Number	#	X	EN
				Description
<b>Termination: -30 (1/4" - 20 External Thread Spindle)</b>				
1	01-1388	1		Spindle Adapter (includes Ref. 2)
2	4212PT	1	2	Screw
3	14-0808	1		Wrench (1/2")
<b>Termination: -32 (1/4" - 28 Internal Thread Spindle)</b>				
4	01.1389	1		Spindle Adapter
5	14-0808	1		Wrench (1/2")
<b>Termination: -36 (300 Series Collet)</b>				
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")
<b>Termination: -45 (Universal Collet)</b>				
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		

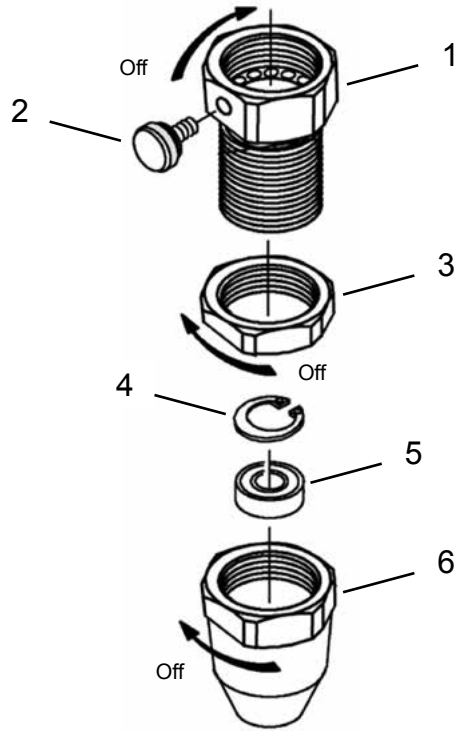
\* Standard Collet

**Table "C2"**

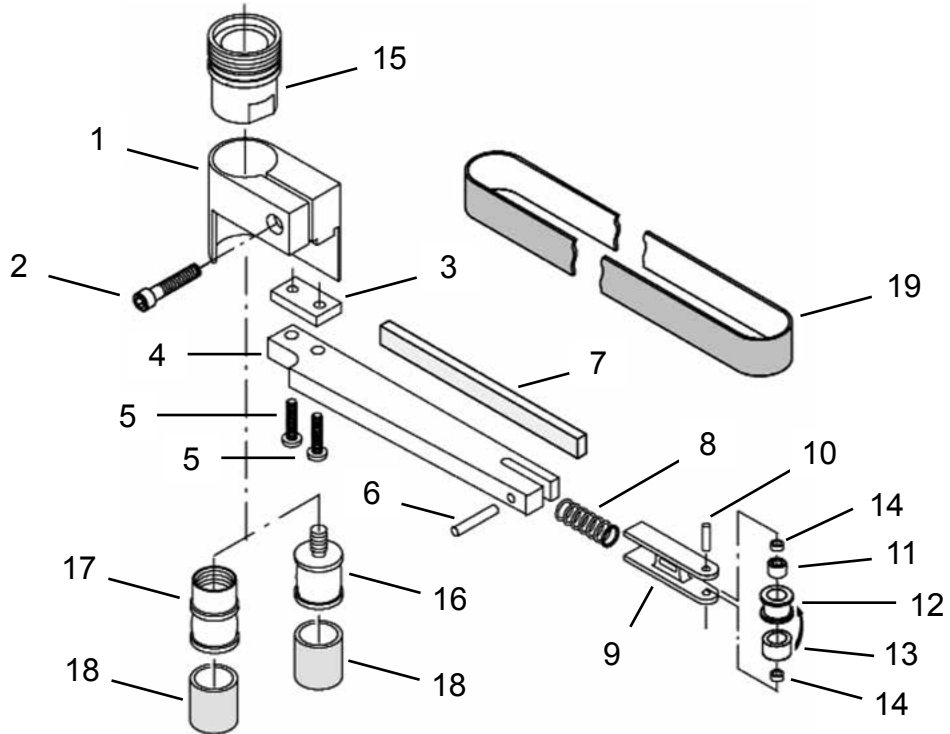
Universal Series Optional Collets					
Part No.	Arbor Size	Part No.	Arbor Size	Part No.	Arbor Size
7809	1/8"	7811	6mm		
7812	3/16"				
7808PT *	1/4"				
7810PT	3mm				

\* Standard Collet

**“D”** Termination -RT (Router)



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



**Dotco®**  
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)

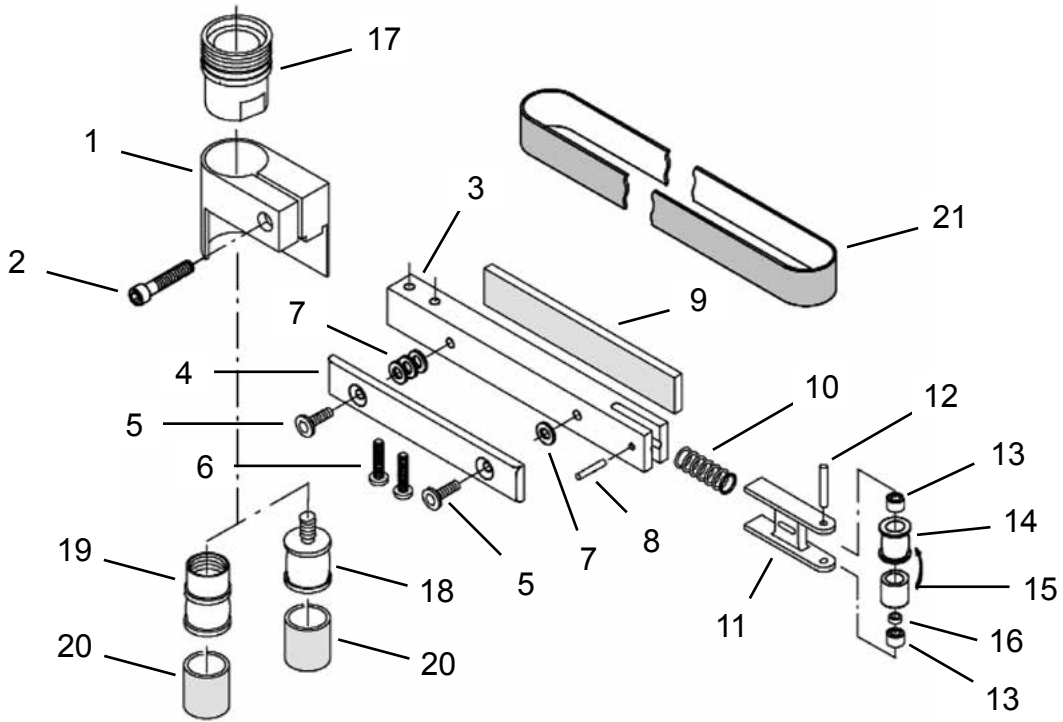
**Illustration "E" - Belt Sander Termination B1**

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)

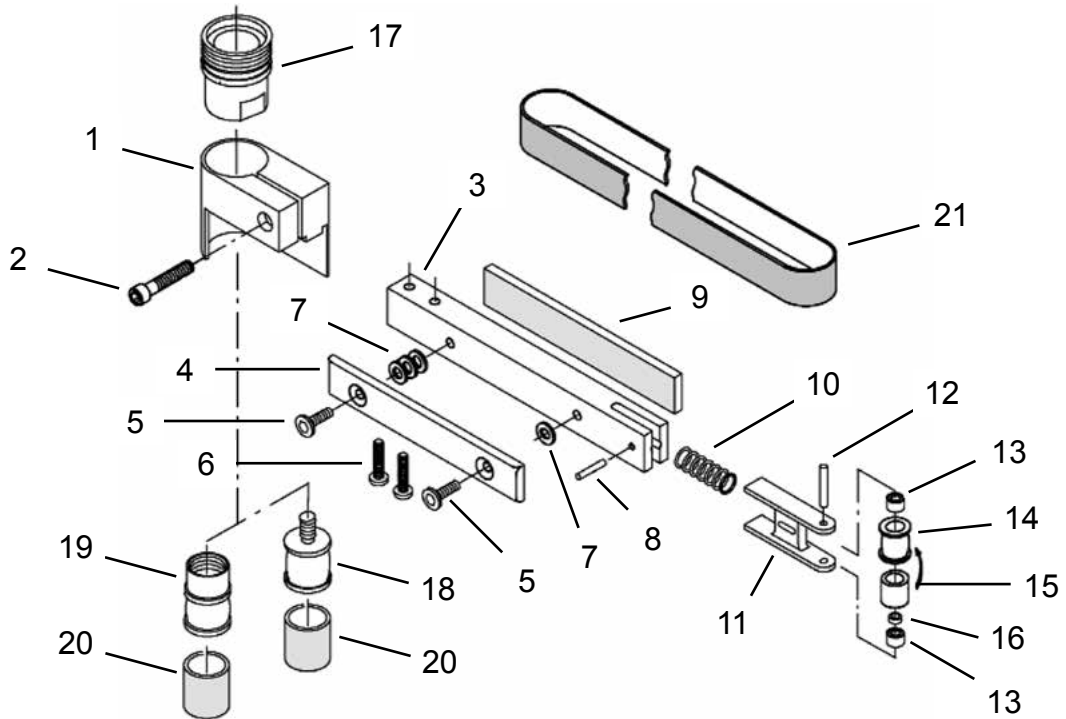
(#) Quantity

(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)



**Dotco®**  
Extended Terminations

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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)

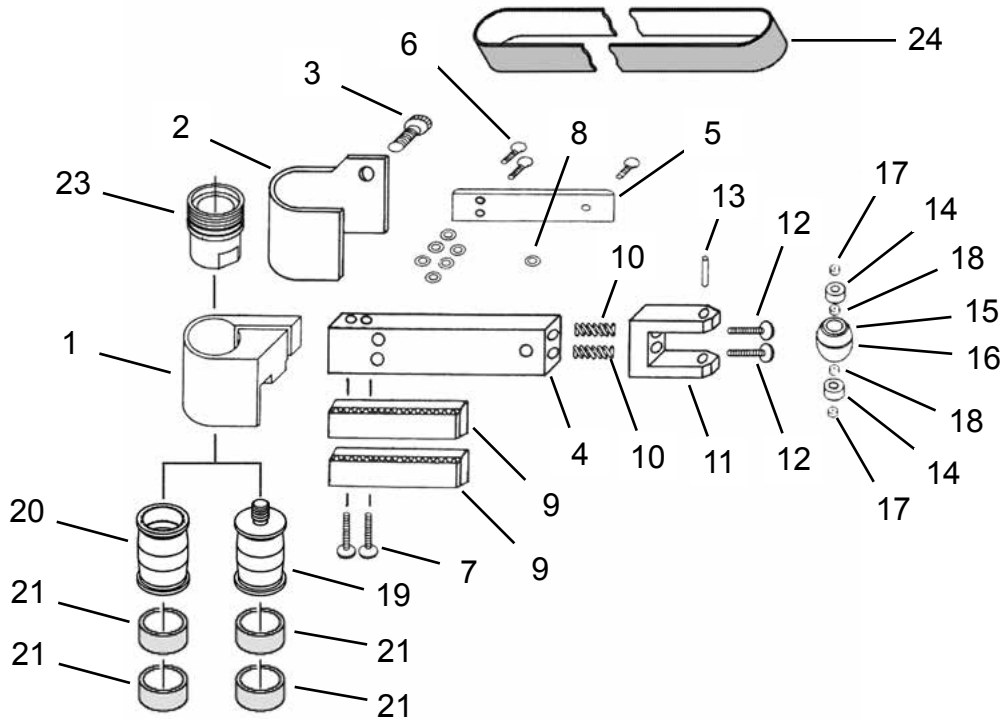
**Illustration "G" - Belt Sander Termination B3**

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)	

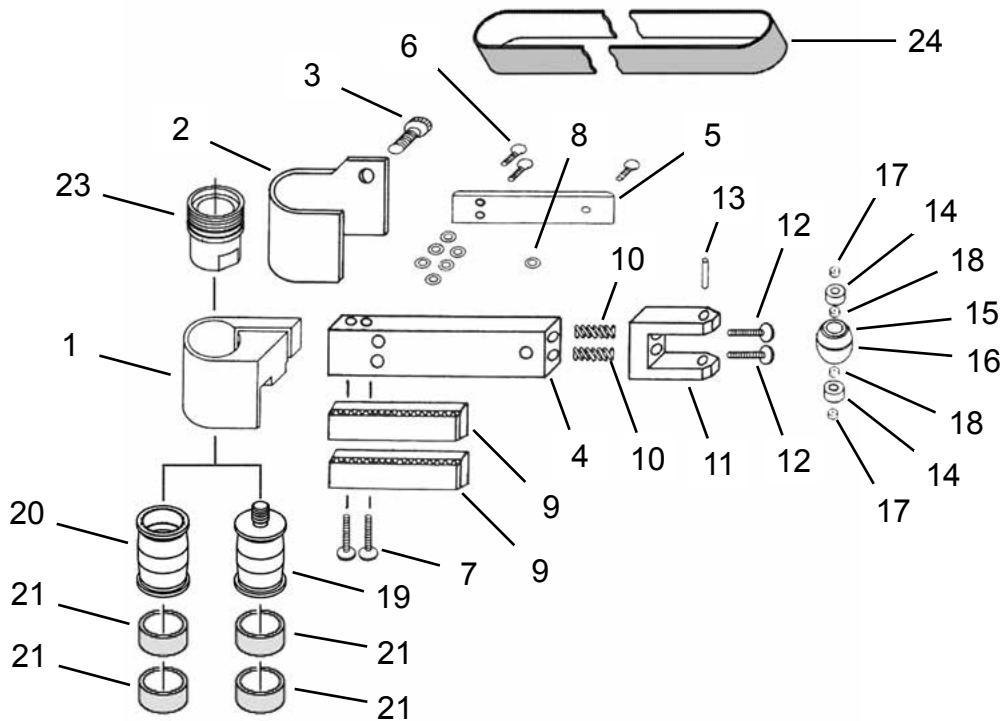
(#) Quantity

(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)



# Dotco®

## 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  
2630 Superior Court  
Auburn Hills, MI 48236  
Phone: +1 (248) 393-5640  
Fax: +1 (248) 391-6295

### Lexington, South Carolina

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