

Product Manual
45-8452EN
12/28/2015

DOTCO[®]

10LF and 12LF Series
Right Angle Grinder and Sander



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

Dotco®
Nomenclature

	XX	L	F	2	XX	-	XX	XX	XX						
<u>Tool Series</u> 10 = Aluminum Housing 12 = Ergo Housing <u>Throttle Type</u> L = Locking Lever <u>Motor Size</u> F = 0.4 hp <u>Handle Style</u> 2 = Right Angle <u>Speed Options (RPM)</u> <table border="0"> <tr> <td>Front Exhaust</td> <td>Rear Exhaust</td> </tr> <tr> <td>00 = 12,000</td> <td>80 = 12,000</td> </tr> <tr> <td>01 = 20,000</td> <td>81 = 20,000</td> </tr> </table> <u>Primary Termination Code</u> 32 = 1/4-28 Threaded Spindle 36 = 300 Series 1/4" Capacity Collet (3 piece) <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") <u>Options</u> Optional Collets										Front Exhaust	Rear Exhaust	00 = 12,000	80 = 12,000	01 = 20,000	81 = 20,000
Front Exhaust	Rear Exhaust														
00 = 12,000	80 = 12,000														
01 = 20,000	81 = 20,000														

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



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: December 17, 2015

Noise and Vibration:

10LF Series Noise Level: ≤ 85 dB(A)

12LF Series Noise Level: ≤ 85 dB(A)

10LF Series Vibration Level: < 2.5 m/s²

12LF Series Vibration Level: < 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

Grease:

Part No.	Packaged	Designation
45-0980	2 oz. (0.06 kg)	Angle Head: Moly-XL SAE 250
540395	2 oz. (0.06 kg)	Planetary: Magnalube-G
513156	16 oz. (0.45 kg)	Planetary: Magnalube-G

Air Supply Line:

Parameter	Description
Air Hose	Minimum inside diameter: 1/4" (6,4 mm) Maximum length: 8.0' (2,4 m)
Air Pressure	Recommended: 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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“A”

Models

10LF200-
10LF201-
12LF200-
12LF201-

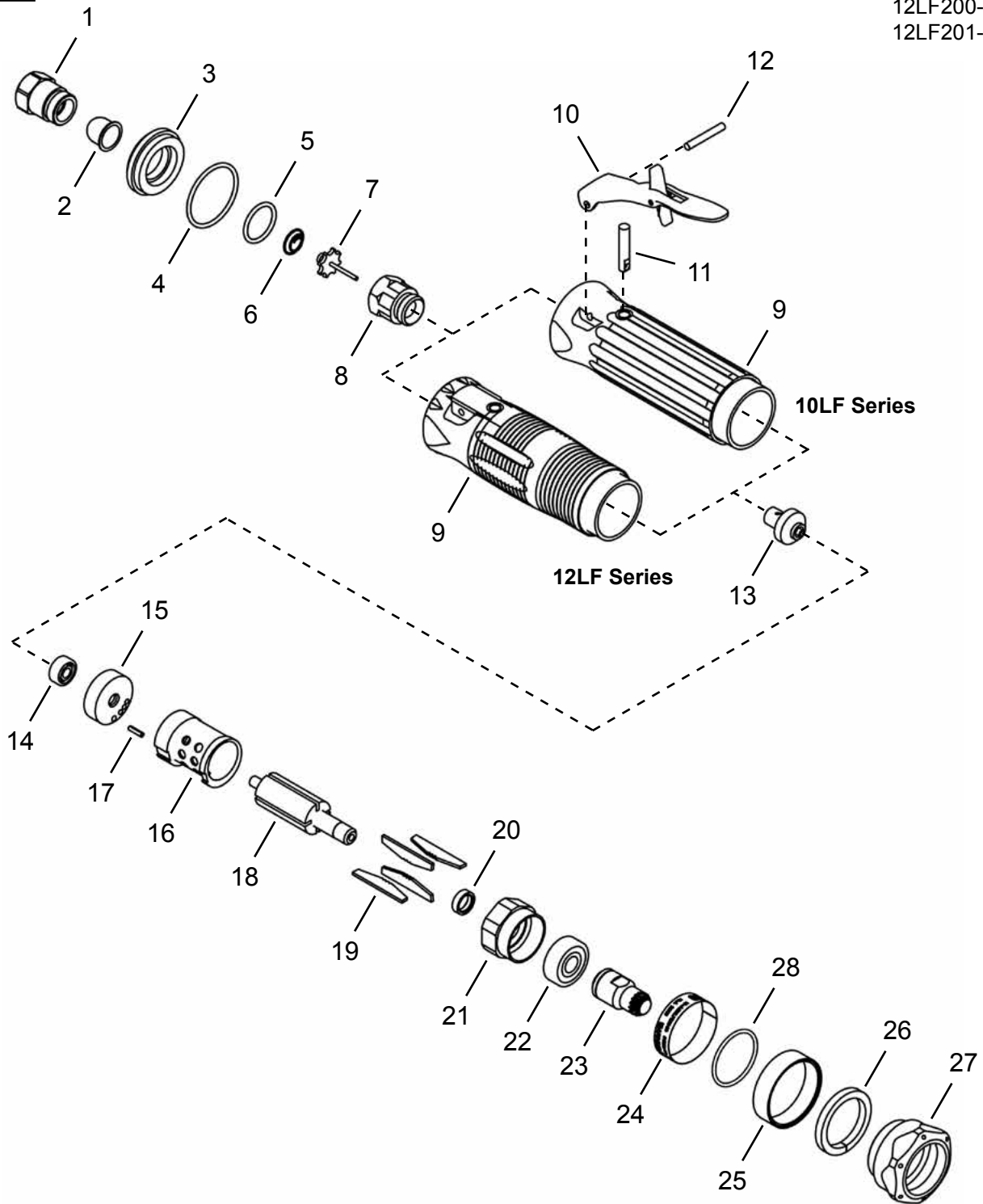


Illustration "A": Front Exhaust Models

Ref	Number	#	X	EN
				Description
1	01-2505	1	2	Inlet Adapter
2	203480PT	1	3	Filter
3	01-2506	1		Exhaust Plug
4	3036PT	1	3	O-Ring
5	2965	1	3	O-Ring
6	01-2519	1	3	Spring
7	01-2518	1		Poppet Valve
8	01-2504	1		Valve Seat
9	Table "A"	1		Housing
10	01-1267	1	2	Lockoff Lever Assembly
11	01-1017	1	2	Shaft
12	1042	1	2	Pin
13	03-1100	1		Governor Valve
14	1009879	1	2	Ball Bearing
15	1110072	1		Rear End Plate
16	1017579	1		Cylinder (includes Ref. 17)
17	1017422	1	3	Cylinder Pin
18	03-1005	1		Rotor
19	1008914	4	12	Rotor Blade
20	1017PT	1		Spacer
21	03-1064	1		Front End Plate
22	03-1111	1	2	Ball Bearing
23	Table "A"	1	1	Gear Set
24	03-1086	1		Label
25	03-1087	1		Label Cover
26	03-1113	1	3	Muffler Element
27	03-1043	1		Lock Ring
28	93040050	1	3	O-Ring

(#) Quantity

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

Table "A"

Ref.	Description	#	10LF200-	#	12LF200-	#	10LF201-	#	12LF201-
9	Housing	1	03-1107	1	03-1112	1	03-1107	1	03-1112
23	Gear Set	1	03-1115	1	03-1115	1	03-1116	1	03-1116

“B”

Models
10LF280-
10LF281-
12LF280-
12LF281-

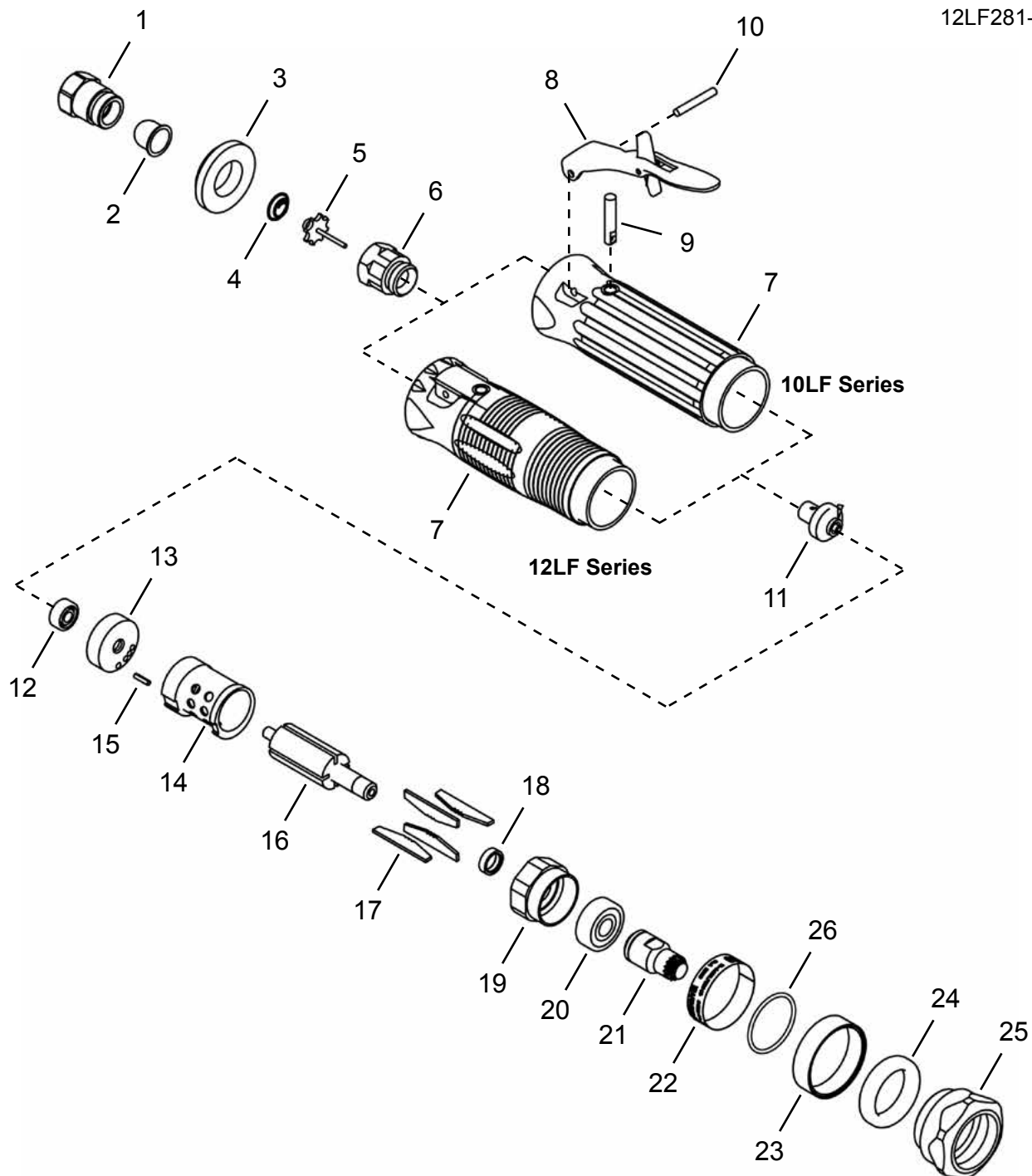


Illustration "B": Rear Exhaust Models

Ref	Number	#	X	EN
				Description
1	01-2505	1	2	Inlet Adapter
2	203480PT	1	3	Filter
3	01-2520	1		Diffuser
4	01-2519	1	3	Spring
5	01-2518	1		Poppet Valve
6	01-2504	1		Valve Seat
7	Table "B"	1		Housing
8	01-1267	1	2	Lockoff Lever Assembly
9	01-1017	1	2	Shaft
10	1042	1	2	Pin
11	03-1100	1		Governor Valve
12	1009879	1	2	Ball Bearing
13	1110072	1		Rear End Plate
14	1017579	1		Cylinder (includes Ref. 15)
15	1017422	1	3	Cylinder Pin
16	03-1005	1		Rotor
17	1008914	4	12	Rotor Blade
18	1017PT	1		Spacer
19	03-1064	1		Front End Plate
20	03-1111	1	2	Ball Bearing
21	Table "B"	1	1	Gear Set
22	03-1086	1		Label
23	03-1087	1		Label Cover
24	01-1025	1	3	Seal
25	03-1044	1		Lock Ring
26	93040050	1	3	O-Ring

(#) Quantity

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

Table "B"

Ref.	Description	#	10LF280-	#	12LF280-	#	10LF281-	#	12LF281-
7	Housing	1	03-1107	1	03-1112	1	03-1107	1	03-1112
21	Gear Set	1	03-1115	1	03-1115	1	03-1116	1	03-1116

“C”

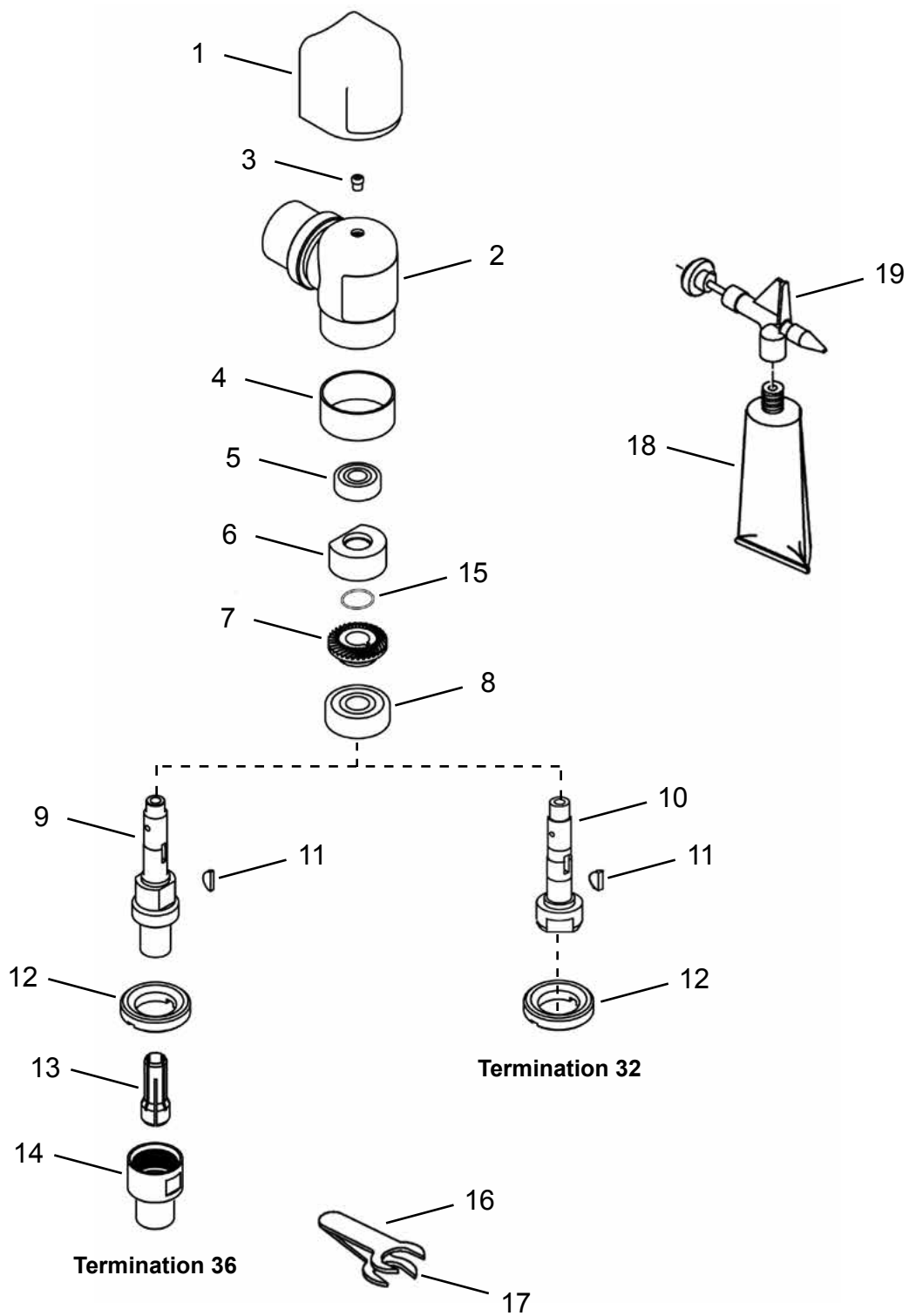


Illustration "C": Angle Attachment

Ref	Number	#	X	EN
				Description
1	01-1048	1	2	Angle Head Cover
2	1024PT	1		Angle Head Housing (includes Ref. 3-4)
3	1463PT	1	2	Grease Fitting
4	1356PT	1		Wear Ring
5	504PT	1	3	Ball Bearing
6	1755PT	1	3	Lubricator Disc
7	Table "C"	1	1	Gear Set
8	03-1111	1	2	Ball Bearing
9	1029PT	1		Spindle (Termination -36)
10	1069	1		Spindle (Termination -32)
11	1062PT	1	3	Key
12	1025PT	1		Lock Ring
13	Table "C1"	1	3	300 Series Collet
14	208196PT	1	3	Nosepiece Cap
15	2053PT	1	3	O-Ring
16	14-0807	1		7/16" Wrench
17	14-0811	1		11/16" Wrench (Termination -36)
18	45-0980	1	2	Gear Lube (2 oz.)
19	45-1982	1		Grease Gun

(#) Quantity

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

Table "C"

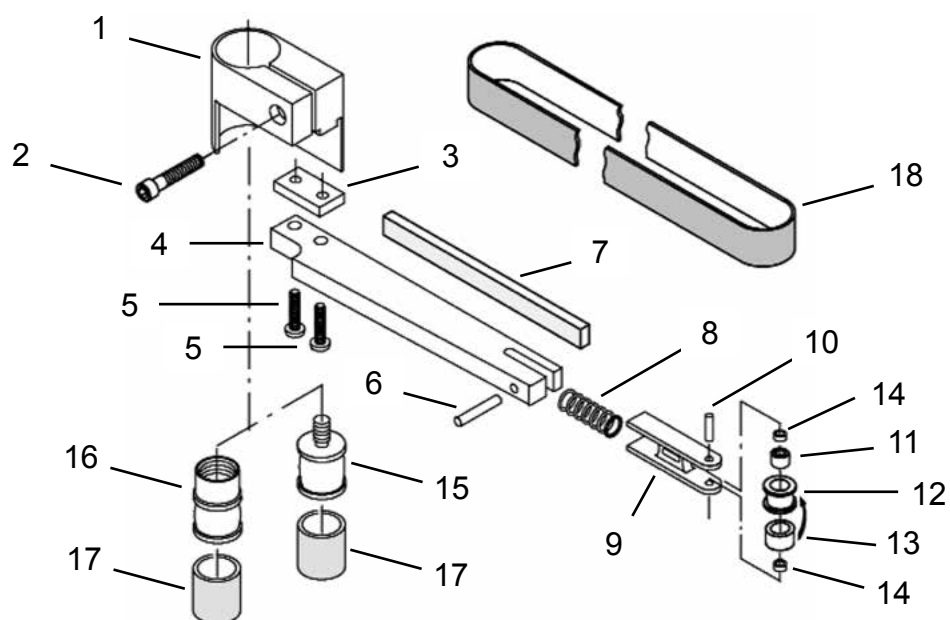
Ref.	Description	#	10LF200- 12LF200- 10LF280- 12LF280-	#	10LF201- 12LF201- 10LF281- 12LF281-
7	Gear Set	1	03-1115	1	03-1116

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

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



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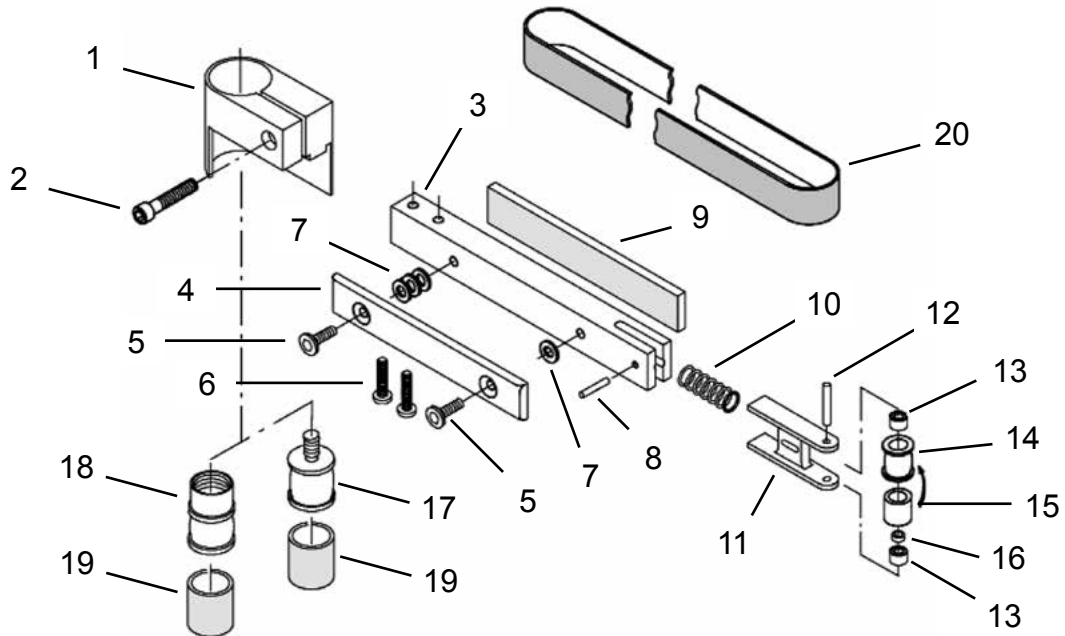
Illustration "D" - Belt Sander Termination B1

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	14-1308	1	1	Drive Wheel (32B1 Termination) (includes Ref. 17)
16	14-1309	1	1	Drive Wheel (36B1 Termination) (includes Ref. 17)
17	14-1304	1	3	Tire
18	14-1591	1	6	Sanding Belt (80 Grit)
	14-1593	1	6	Sanding Belt (120 Grit)

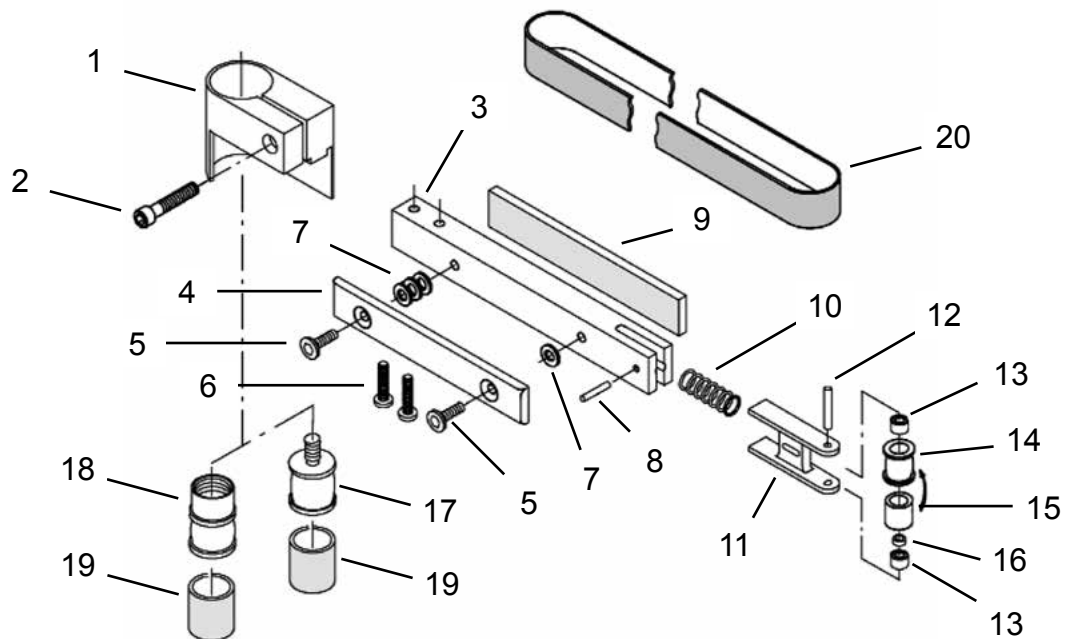
(#) Quantity

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

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



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



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Illustration "E" - 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	14-1308	1	1	Drive Wheel (32B2 Termination) (includes Ref. 19)
18	14-1309	1	1	Drive Wheel (36B2 Termination) (includes Ref. 19)
19	14-1304	1	3	Tire
20	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)

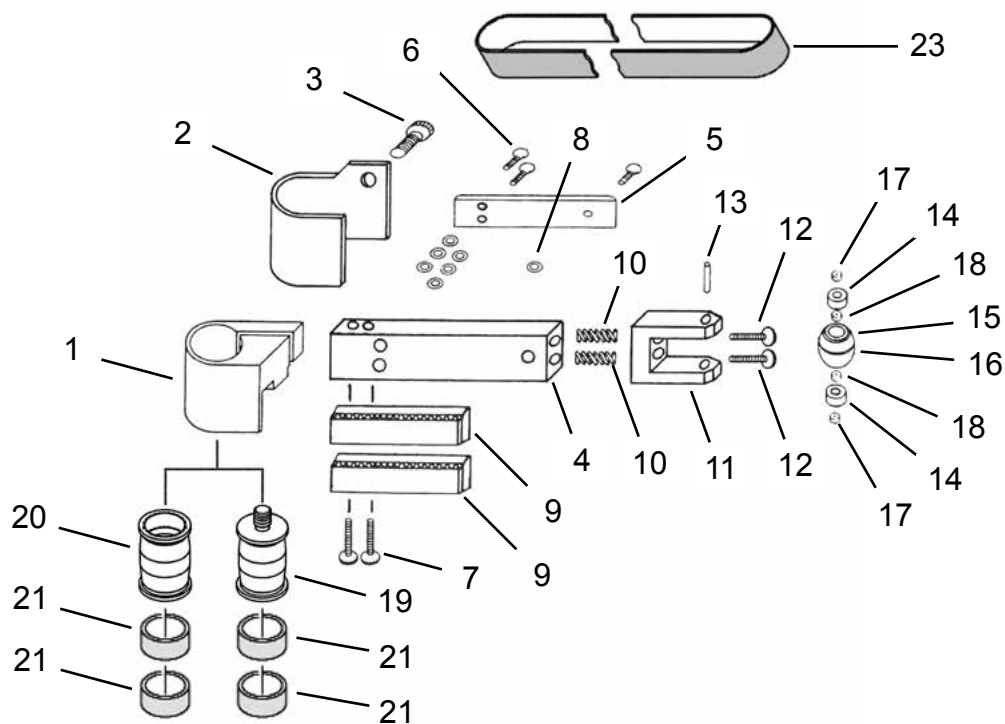
Illustration "F" - Belt Sander Termination B3

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	14-1308	1	1	Drive Wheel (32B3 Termination) (includes Ref. 19)
18	14-1309	1	1	Drive Wheel (36B3 Termination) (includes Ref. 19)
19	14-1304	1	3	Tire
20	14-1368	1	6	Sanding Belt (80 Grit)
	14-1372	1	6	Sanding Belt (120 Grit)

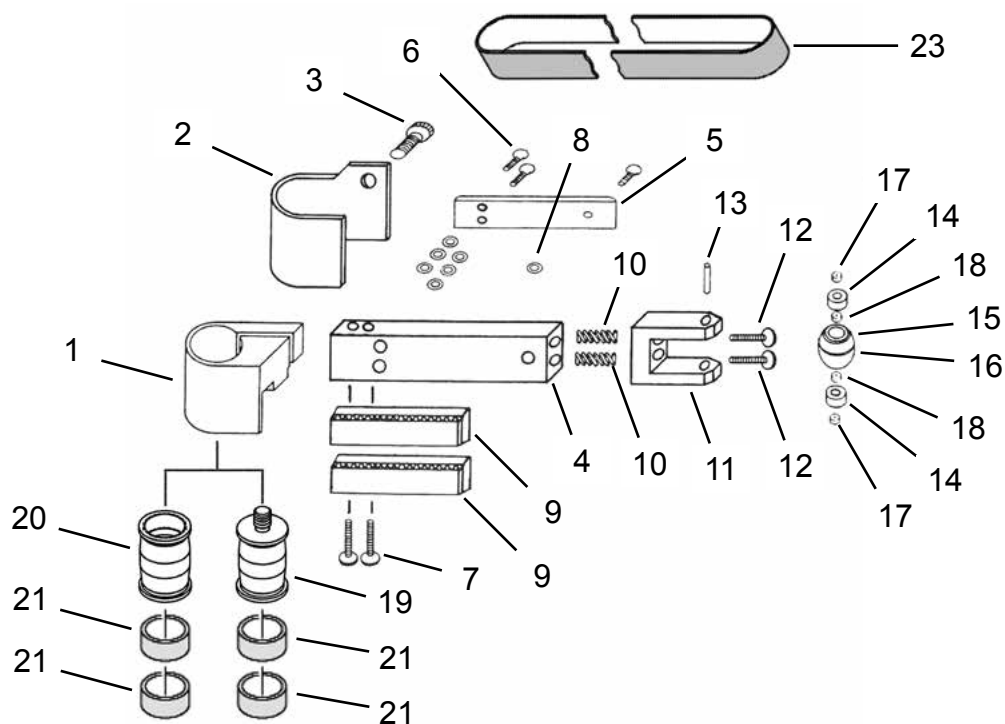
(#) Quantity

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

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



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



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Illustration "G" - 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	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 "H" - 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	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)