

Parts Manual
45-8445EN
PL31-14CN
01/30/2012

DOTCO[®]

14CN Series
Pistol Grip Drills



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

Dotco®
Nomenclature

14	CN	L	XX	-	XX	NL
<u>Tool Series</u> 14 = Ergo Drill						
<u>Motor Style</u> CN = 0.9 HP, Pistol Grip, Trigger						
<u>Handle Style</u> L = Large Handle						
<u>Speed Options (RPM)</u> 90 = 20,000 91 = 5,200 92 = 3,200 95 = 1,300 97 = 500 98 = 6,000						
<u>Termination Code</u> 38 = 1/4" Jacobs Chuck 40 = No Chuck 51 = 3/8" Jacobs Chuck (#41BA) 53 = 1/2" Jacobs Chuck (#33BA) and Dead Handle						
<u>Blade Option (Extra Cost)</u> NL = Oil Less Blade						

Tool Termination Numbers (-XX):

The 14CN series tool model numbers are not complete without your choice of a drill chuck or no chuck. Following is the termination number, built into the model number, which must be selected before a tool can be ordered.

(-XX)

Tool Termination Number	Chuck Part Number	Chuck Capacity	Thread Mount	Chuck Type	Includes Chuck Key Part #	External Chuck Sleeve
38	1005078	0 - 1/4"	3/8"-24	1 BA	1005079	Smooth
40	No Chuck	NA	3/8"-24	N/A	N/A	N/A
51	1001252	0 - 3/8"	3/8"-24	31 BA	1006375	Smooth
53	1009726	5/64" - 1/2"	3/8"-24	33 BA	1005022	Fluted

Dotco®
Description and Instructions

45-8445EN
01/30/2012

Language Version:

This Parts Manual is the ***“Original Instructions”*** intended for all persons who will use or repair these tools.

Product Identification:

Refer to the “Model Nomenclature” page in this document.

Noise and Vibration:

Refer to documents CE-1006DC and CE-1006TD.

Intended Use:

These air powered drills are intended for light duty drilling applications. Use only for their designated purpose. Do not use as a hammer, lever or other improper usage that can cause tool damage and operator injury.

Copyright protection:

Apex Tool Group, LLC reserves the right to modify, supplement or improve this document or the product without prior notice. This document may not be reproduced in any way, shape or form, in full or parts thereof, or copied to another natural or machine readable language or to a data carrier, whether electronic, mechanical, optical or otherwise without the express permission of Apex Tool Group, LLC.

General Safety:

Refer to General Safety document, CE-2006 for general safety operating instructions for this equipment.

Lubrication:

Refer to lubrication document, PL65-LUB, for general lubrication instructions.

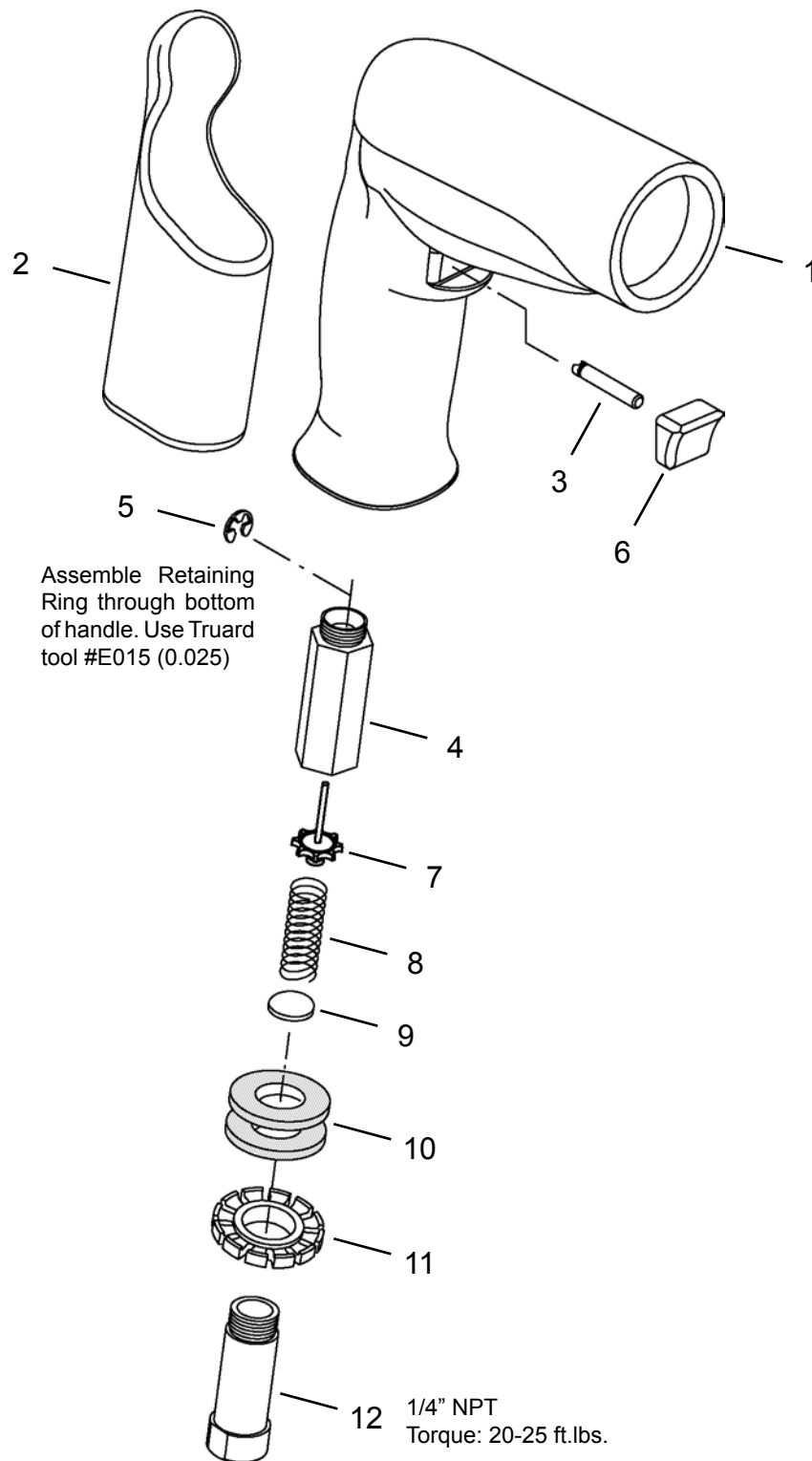
Gearing: When the gearing is cleaned or replaced, apply a thin coat of Molykote grade G lubricant. Only a small amount is necessary. An 8 ounce tube (540394) is available from Apex Tool Group.



Do not use substitutes for oil and grease. This could result in damage to the tool.

Dotco®
Large Handle Assembly

"A"



Dotco®
Large Handle Assembly

45-8445EN
01/30/2012

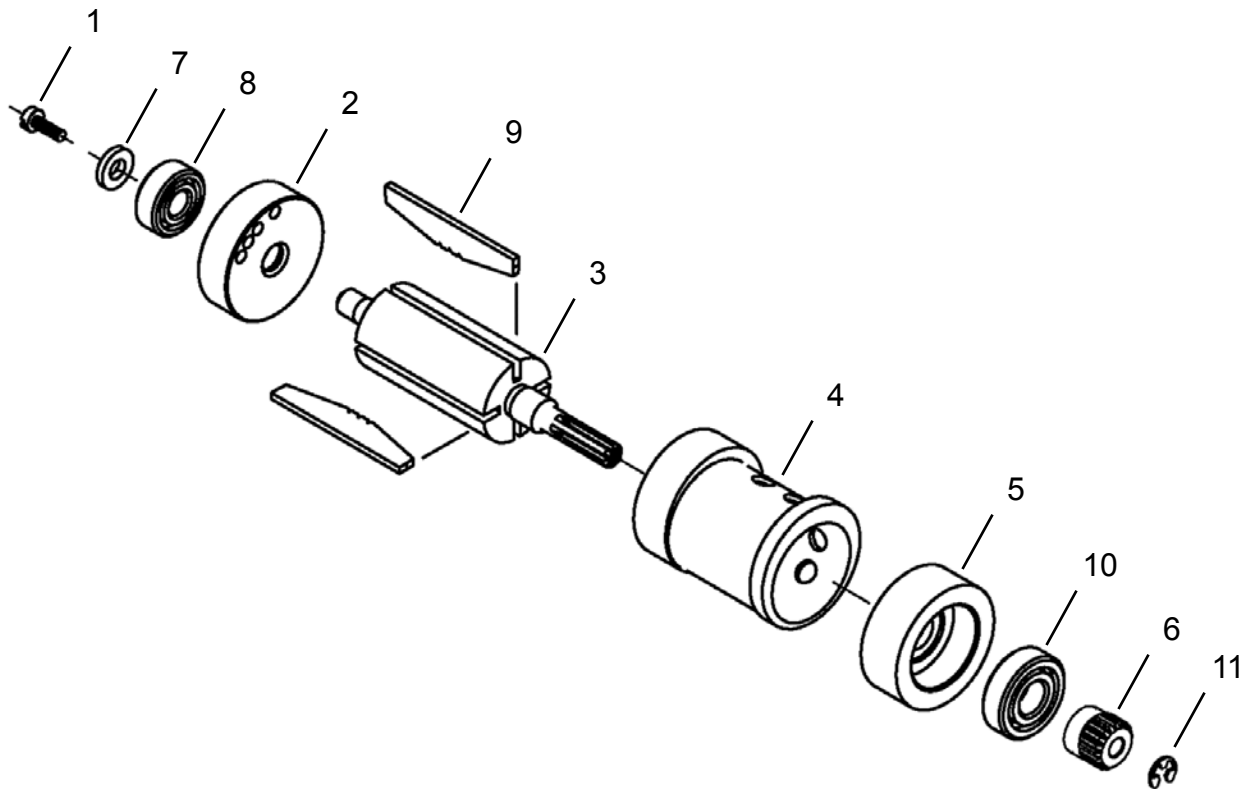
Illustration "A"

Ref	Number	#	X	EN
				Description
1	01-2701	1		Pistol Grip Handle
2	01-2702	1	1	Handle Sleeve
3	1110077	1		Trigger Push Rod
4	1110052	1		Valve Housing
5	1012024	1	2	Retaining Ring
6	1110038	1		Trigger
7	01-2518	1	1	Tip Valve
8	1110079	1	3	Valve Spring
9	1006577	1	3	Screen
10	1110134	2	6	Muffler
11	1110892	1		Muffler Diffuser
12	1110053	1		Hose Adapter

(#) Quantity

(X) Recommended Spare Parts

“B”



Dotco®
Motor Assembly

45-8445EN
01/30/2012

Illustration "B"

Ref	Number	#	X	EN
				Description
1	1011750	1	2	Screw
2	1110068	1		Rear Plate
3	Table "B"	1		Rotor
4	1019667	1		Cylinder
5	1008260	1		Front Plate
6	Table "B"	1	2	Detachable Pinion
7	1012518	1	2	Washer
8	1010183	1	2	Ball Bearing
9	1017119 *	4	12	Rotor Blade
10	1010770	1	2	Ball Bearing
11	Table "B"	1	2	Retaining Ring

(#) Quantity

(X) Recommended Spare Parts

* Note: Oil Less Blades - 1019882 (indicated by "NL" in model code)

Table "B"

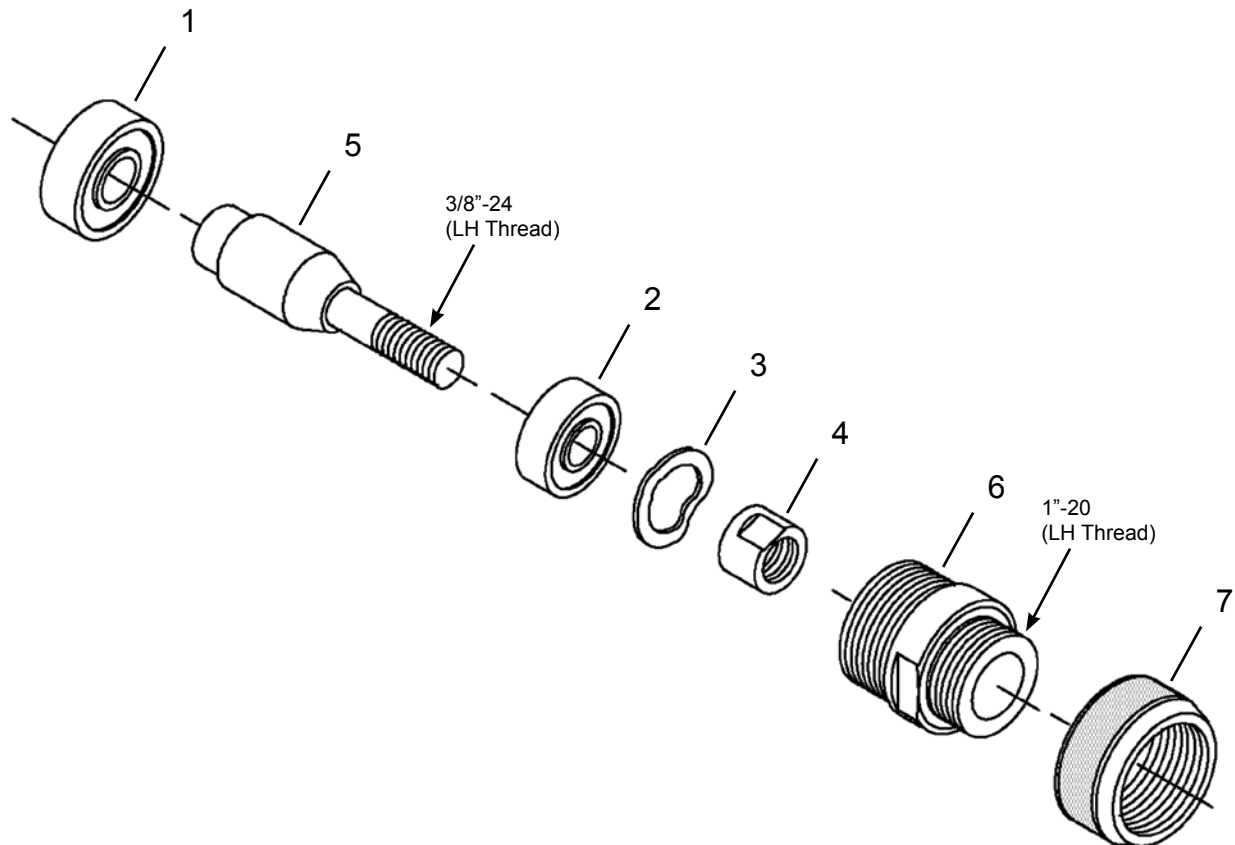
Ref.	Description	Speed Code									
		#	0	#	1 & 5	#	2	#	7	#	8
3	Rotor	1	1110126 (9T)	1	1017218	1	1017156 (9T)	1	1017184 (5T)	1	1017218
6	Detachable Pinion		-----	1	1021745		-----		-----	1	1017625
11	Retaining Ring		-----	1	1007548		-----		-----	1	1007548

(T) Teeth

Dotco®
Nose Assembly

Models
14CNL90-XX

“C”



Dotco®
Nose Assembly

45-8445EN
01/30/2012

Illustration "C"

Ref	Number	#	X	EN
				Description
1	1008262	1	2	Ball Bearing
2	1008854	1	2	Ball Bearing
3	1110127	1	1	Wave Washer
4	1110185	1	1	Spindle Nut
5	1110124	1		Spindle
6	1110118	1		Nose
7	1110050	1		Thread Cover

(#) Quantity

(X) Recommended Spare Parts

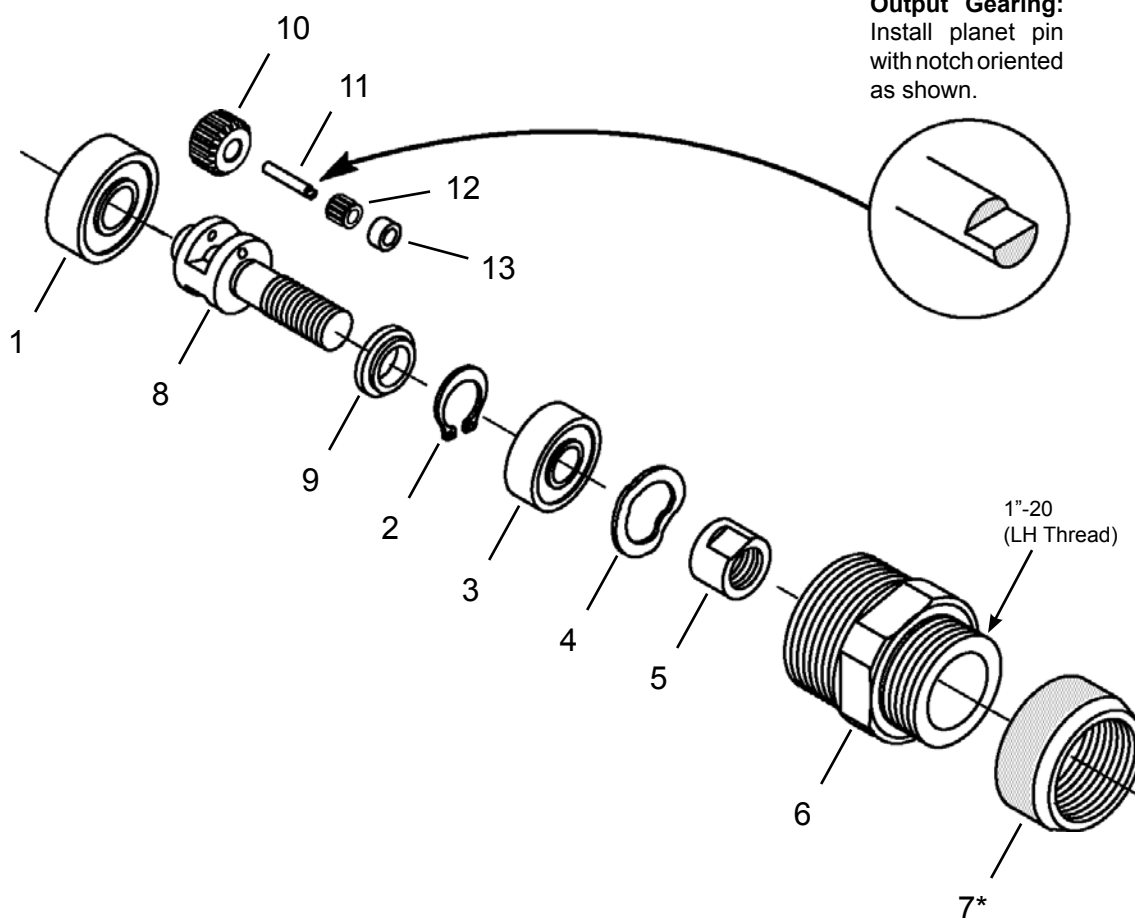
Dotco®
Single Stage Gearing

"D"

14CNL91-XX: 5,200 RPM
14CNL92-XX: 3,200 RPM

Models

14CNL91-XX
14CNL92-XX



* **Note:** Not included in Gear Assembly

Dotco®
Single Stage Gearing

45-8445EN
01/30/2012

Illustration "D"

Ref	Number	#	X	EN
				Description
--	Table "D"	1		Complete Gear Assembly
1	1008262	1	2	Ball Bearing
2	1007964	1	1	Retaining Ring
3	506PT	1	2	Ball Bearing
4	1110127	1	1	Wave Washer
5	1110185	1	1	Spindle Nut
6	Table "D"	1		Gear Housing
7	1110050	1		Thread Cover (not included in Gear Assembly)
8	Table "D"	1		Planet Cage
9	Table "D"	1	1	Planet Cage Washer
10	Table "D"	2	4	Planet Gear
11	1004983	2	4	Planet Pin
12	7610PT	2	4	Needle Bearing
13	1110066	4	8	Planet Gear Washer

(#) Quantity

(X) Recommended Spare Parts

Table "D"

Ref.	Description	#	14CNL91-	#	14CNL92-
--	Complete Gear Assembly	1	1025933	1	1025564
6	Gear Housing	1	1110040	1	1110042
8	Planet Cage	1	1110043	1	1110044
9	Planet Cage Washer	1	1110069	1	1110070
	Washer Diameter		0.743"		0.677"
10	Planet Gear	2	1008250 (16T)	2	1008252 (19T)

(T) Teeth

Dotco® Double Stage Gearing

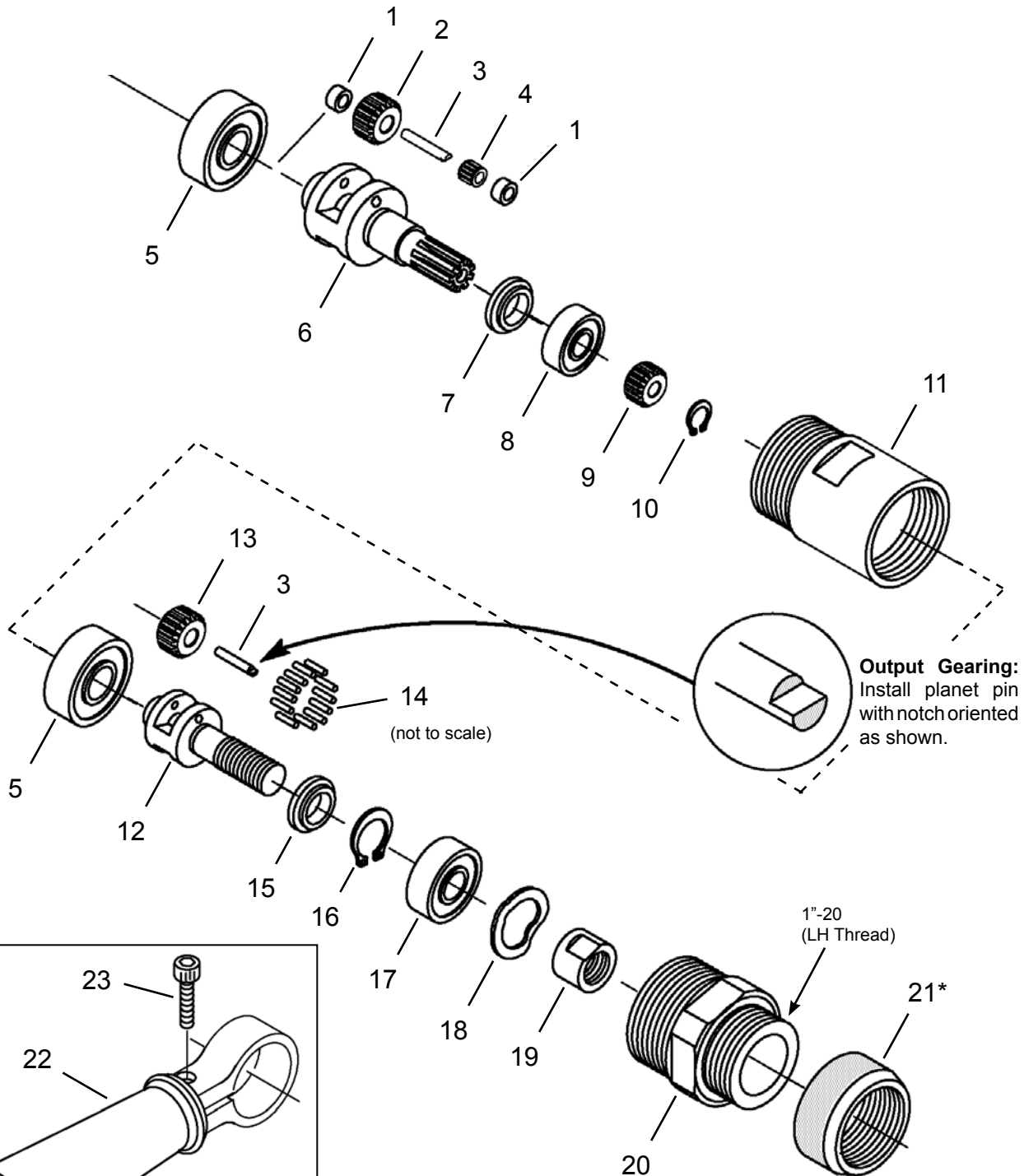
"E"

14CNL95-XX: 1,300 RPM
14CNL97-XX: 500 RPM

Models

14CNL95-XX

14CNL97-XX



14CNL97-53 (only)
(not to scale)

* **Note:** Not included in Gear Assembly

Dotco®
Double Stage Gearing

45-8445EN
01/30/2012

Illustration "E"

Ref	Number	#	X	EN
				Description
--	Table "E"	1		Primary Gearing Assembly (includes Ref. 1, 2, 3(2), 4, 5(1), 6, 7, 8, 9, 10, 11)
1	1110066	4	8	Planet Gear Washer
2	Table "E"	2	4	Planet Gear
3	1004983	4	8	Planet Pin
4	7610PT	2	4	Needle Bearing
5	1008262	2	4	Ball Bearing
6	Table "E"	1		Planet Cage
7	Table "E"	1	1	Planet Cage Washer
8	1005062	1	2	Ball Bearing
9	1017856	1	2	Detachable Pinion
10	1007548	1	1	Retaining Ring
11	Table "E"	1		Gear Housing
--	1025559	1		Output Gearing Assembly (includes Ref. 3(2), 5(1), 12, 13, 14, 16, 17, 18, 19, 20)
12	1110043	1		Planet Cage
13	1008250	2	4	Planet Gear (16T)
14	1004984	22	44	Planet Gear Roller
15	1110069	1	1	Planet Cage Washer
16	1007964	1	1	Retaining Ring
17	506PT	1	2	Ball Bearing
18	1110127	1	1	Wave Washer
19	1110185	1	1	Spindle Nut
20	1110040	1		Gear Housing
21	1110050	1		Thread Cover (not included in Gear Assembly)
22	1023972	1		Dead Handle (includes Ref. 23) (14CNL97-53 only)
23	541802	1		Cap Screw (14CNL97-53 only)

(#) Quantity

(X) Recommended Spare Parts

(T) Teeth

Table "E"

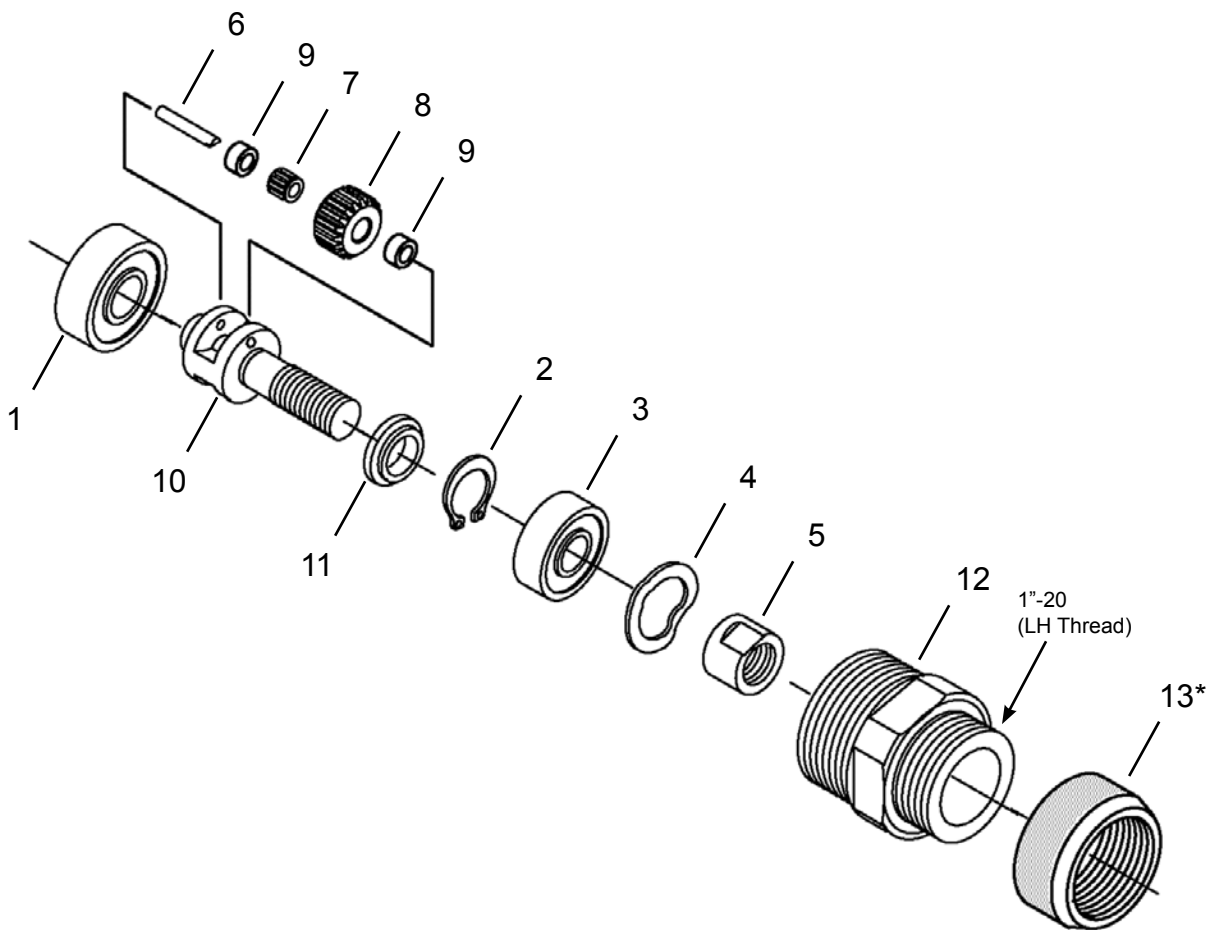
Ref.	Description	#	14CNL95-	#	14CNL97-
--	Primary Gearing Assembly	1	1025583	1	1025605
2	Planet Gear	2	1008250 (16T)	2	1110139 (21T)
6	Planet Cage	1	1017842	1	1110141
7	Planet Cage Washer	1	1017051	1	1110138
11	Gear Housing	1	1008955	1	1008956

(T) Teeth

"F"

14CNL98-XX: 6,000 RPM

Models
14CNL98-XX



* **Note:** Not included in Gear Assembly

Dotco®
Single Stage Gearing

45-8445EN
01/30/2012

Illustration "F"

Ref	Number	#	X	EN
				Description
--	1025598	1		Complete Gear Assembly
1	1008262	1	2	Ball Bearing
2	1007964	1	1	Retaining Ring
3	1008854	1	2	Ball Bearing
4	1110127	1	1	Wave Washer
5	1110185	1	1	Spindle Nut
6	1004983	2	4	Planet Gear Pin
7	7610PT	2	4	Needle Bearing
8	1017621	2	4	Planet Gear (15T)
9	1110066	4	8	Planet Gear Washer
10	1110091	1		Planet Cage
11	1110094	1		Washer
12	1110042	1		Gear Housing
13	1110050	1		Thread Cover (not included in Gear Assembly)

(#) Quantity

(X) Recommended Spare Parts

(T) Teeth

Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

Dallas, TX
**Apex Tool Group
Sales & Service Center**
1470 Post & Paddock
Grand Prairie, TX 75050
Tel: 972-641-9563
Fax: 972-641-9674

Detroit, MI
**Apex Tool Group
Sales & Service Center**
2630 Superior Court
Auburn Hills, MI 48326
Tel: 248-391-3700
Fax: 248-391-7824

Houston, TX
**Apex Tool Group
Sales & Service Center**
6550 West Sam Houston
Parkway North, Suite 200
Houston, TX 77041
Tel: 713-849-2364
Fax: 713-849-2047

Lexington, SC
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Tel: 800-845-5629
Tel: 803-951-7544
Fax: 803-358-7681

Los Angeles, CA
**Apex Tool Group
Sales & Service Center**
15503 Blackburn Avenue
Norwalk, CA 90650
Tel: 562-623-4457
Fax: 562-802-1718

Seattle, WA
**Apex Tool Group
Sales & Service Center**
2865 152nd Avenue N.E.
Redmond, WA 98052
Tel: 425-497-0476
Fax: 425-497-0496

York, PA
**Apex Tool Group
Sales & Service Center**
3990 East Market Street
York, PA 17402
Tel: 717-755-2933
Fax: 717-757-5063

Canada
**Apex Tool Group
Sales & Service Center**
5925 McLaughlin Road
Mississauga, Ont. L5R 1B8
Canada
Tel: 905-501-4785
Fax: 905-501-4786

Germany
**Apex Tool Group
GmbH & Co. OHG**
Industriestraße 1
73463 Westhausen
Germany
Tel: +49 (0) 73 63 81 0
Fax: +49 (0) 73 63 81 222

England
**Apex Tool Group
GmbH & Co. OHG**
C/O Spline Gauges
Piccadilly, Tamworth
Staffordshire B78 2ER
United Kingdom
Tel: +44 1827 8741 28
Fax: +44 1827 8741 28

France
Apex Tool Group SAS
25 rue Maurice Chevalier
77330 Ozoir-La-Ferrière
France
Tel: +33 1 6443 2200
Fax: +33 1 6443 1717

China
Cooper (China) Co., Ltd.
a company of
Apex Tool Group, LLC
955 Sheng Li Road,
Heqing Pudong, Shanghai
China 201201
Tel: +86-21-28994176
Fax: +86-21-51118446

Mexico
Cooper Tools
de México S.A. de C.V.
a company of
Apex Tool Group, LLC
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO 76220
Mexico
Tel: +52 (442) 211-3800
Fax: +52 (442) 103-0443

Brazil
Cooper Tools Industrial Ltda.
a company of
Apex Tool Group, LLC
Av. Liberdade, 4055
Zona Industrial - Iporanga
18087-170 Sorocaba
SP Brazil
Tel: +55 15 2383929
Fax: +55 15 2383260

Hungary
Cooper Tools Hungaria Kft.
a company of
Apex Tool Group, LLC
Berkenyefa sor 7
Pf: 640
9027 Győr
Hungary
Tel: +36 96 66 1383
Fax: +36 96 66 1135

Apex Tool Group, LLC
1000 Lufkin Road
Apex, NC 27539
Phone: 919-387-0099
Fax: 919-387-2614
www.apextoolgroup.com

DOTCO®