COOPER Tools

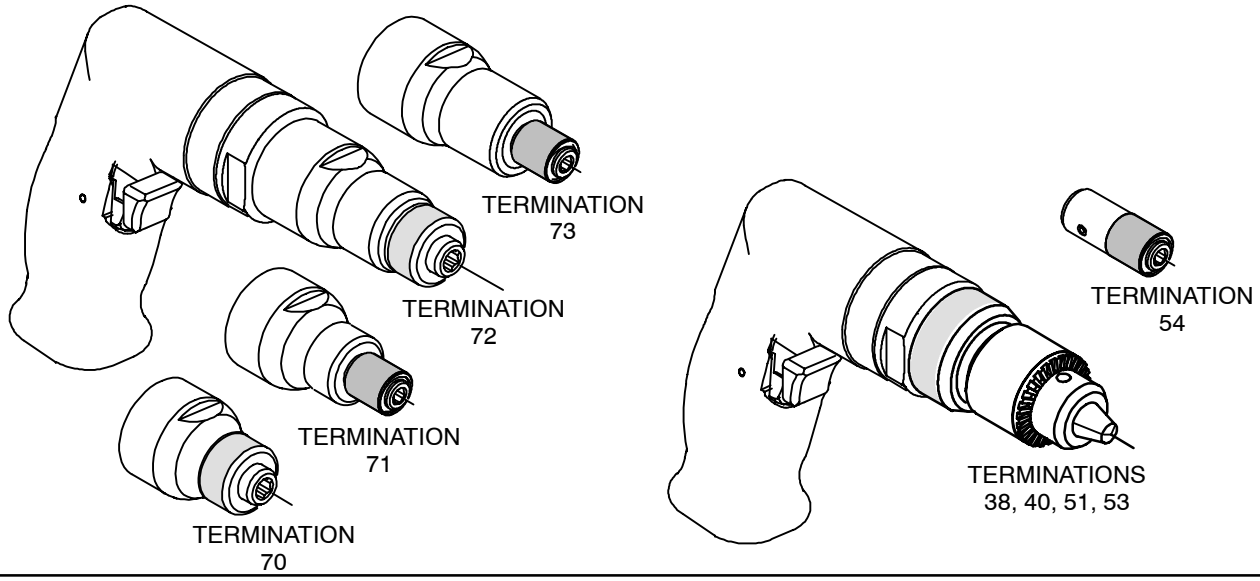
Parts Manual • Ersatzteil–Liste

PL31–56C 4/01

DOTCO®

45–8207

56CT.., 56CS.., 56CN..
Pistol Grip, Reversible
Drills & Screwdrivers



56 C T S xx – xx NL Typical Model / Typisches Modell

SERIES / SERIE

INDICATES MODEL WITH "OIL FREE" BLADES (extra cost option). For Medium Duty & Heavy Duty Models. Standard on Light Duty Models.

MOTOR STYLE / MOTORAUSFEIHRUNG
(Select one / auswahl)

CT – Trigger Operated, Pistol Grip, 1/3 HP, Light Duty
CS – Trigger Operated, Pistol Grip, 1/2 HP, Medium Duty
CN – Trigger Operated, Pistol Grip, 3/4 HP, Heavy Duty

HANDLE STYLE
(Select one / auswahl)

L – Large Handle
S – Small Handle

TERMINATION / WINKELKOPFAUSFEIHRUNG
(Select one / auswahl)

38 – 1/4" Jacobs Chuck
40 – no chuck
51 – 3/8" Jacobs Chuck
53 – 1/2" Jacobs Chuck
54 – 1/4" Internal Hex with Slip Chuck
70 – Positive Clutch
71 – Pos. Clutch with Slip Chuck
72 – Adjustable Clutch
73 – Adj. Clutch with Slip Chuck

OUTPUT SPEED / LEERLAUFDREHZAHL
(Select one / auswahl)

Light & Medium Duty / Für leichte und mittelschwere Belastung	**Heavy Duty / Für hohe Belastung**
91 – 4500 RPM / min^{-1}	**91 –** 4000 RPM / min^{-1}
92 – 2800 RPM / min^{-1}	**92 –** 2500 RPM / min^{-1}
93 – 1700 RPM / min^{-1}	**93 –** 1500 RPM / min^{-1}
94 – 1400 RPM / min^{-1}	**94 –** 1200 RPM / min^{-1}
95 – 1100 RPM / min^{-1}	**95 –** 950 RPM / min^{-1}
96 – 700 RPM / min^{-1}	**96 –** 600 RPM / min^{-1}
97 – 400 RPM / min^{-1}	**97 –** 350 RPM / min^{-1}

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

CooperTools
P.O. BOX 1410
LEXINGTON, SOUTH CAROLINA 29071–1410

DOTCO

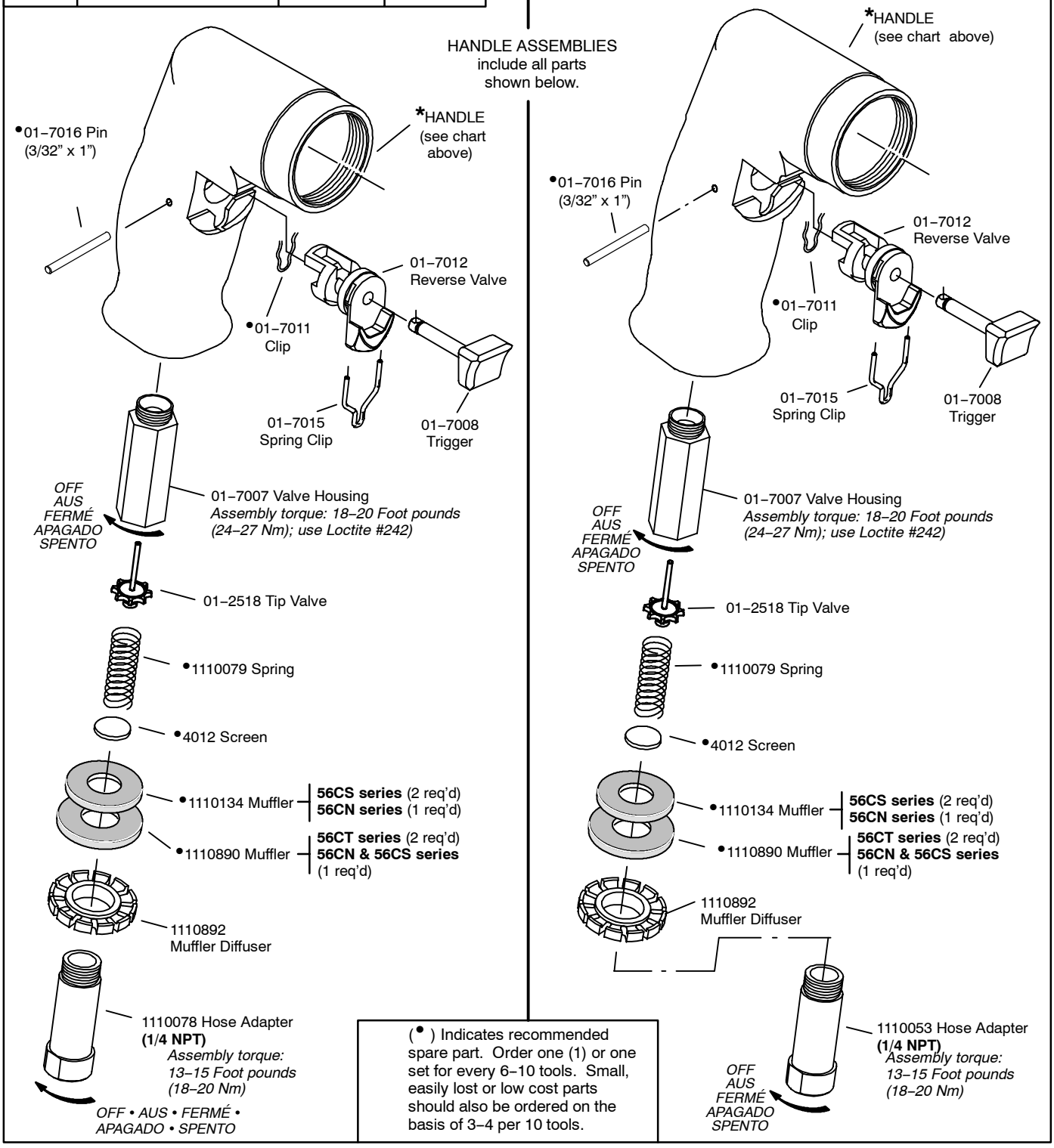
56C Series

Large & Small Handle Assemblies

HOUSING STYLE		SMALL HANDLE ASSEMBLY (complete)	SMALL HANDLE HANDLE Part Num.
56CTS	Light Duty	01–7040 01–7240	01–7001 01–7201
56CSS	Medium Duty	01–7042 01–7242	01–7003 01–7203
56CNS	Heavy Duty	01–7044	01–7004

HOUSING STYLE		LARGE HANDLE ASSEMBLY (complete)	LARGE HANDLE HANDLE Part Num.
56CTL	Light Duty	01–7041	01–7031
56CSL	Medium Duty	01–7043	01–7032
56CNL	Heavy Duty	01–7045	01–7033

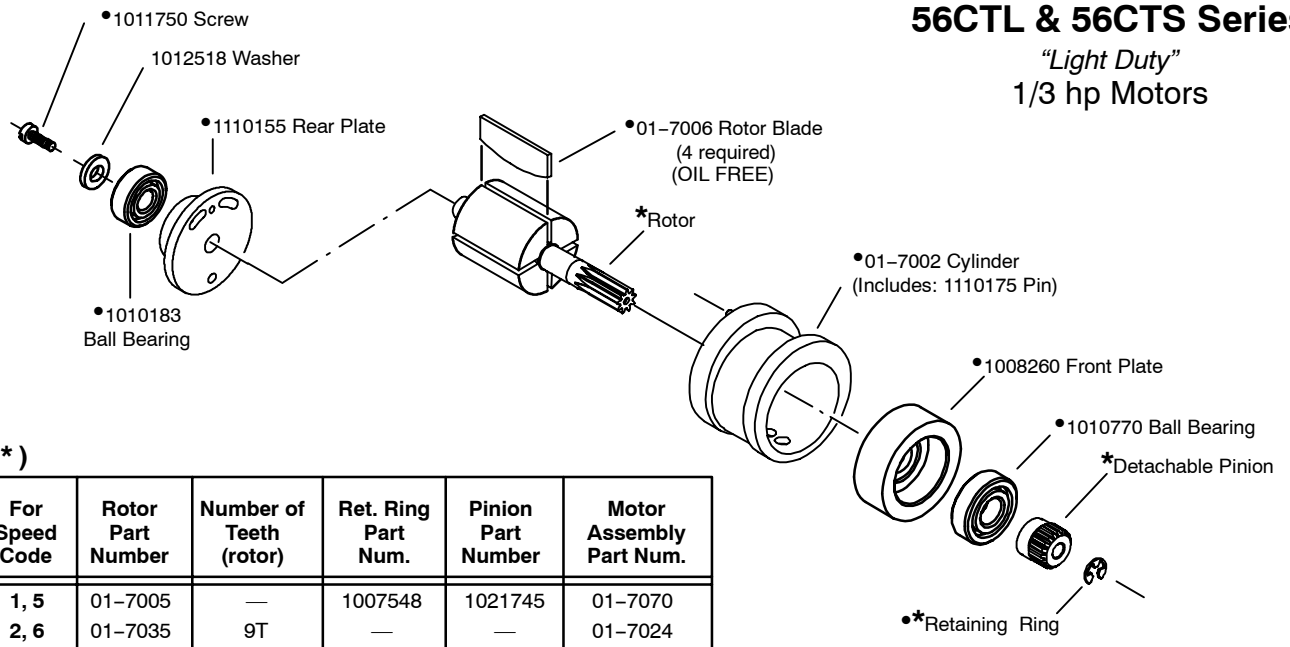
HANDLE ASSEMBLIES include all parts shown below.



(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

56CTL & 56CTS Series

"Light Duty"
1/3 hp Motors



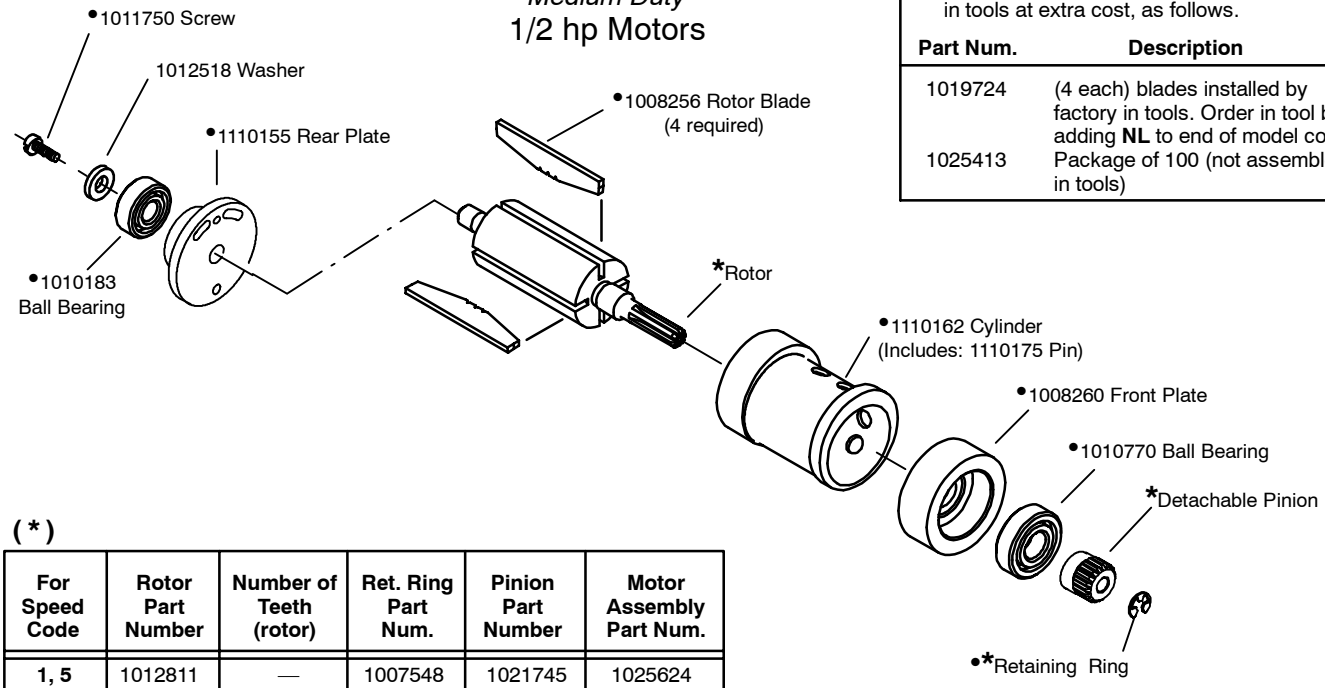
(*)

For Speed Code	Rotor Part Number	Number of Teeth (rotor)	Ret. Ring Part Num.	Pinion Part Number	Motor Assembly Part Num.
1, 5	01–7005	—	1007548	1021745	01–7070
2, 6	01–7035	9T	—	—	01–7024
3, 4, 7	01–7025	5T	—	—	01–7034

(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

56CSL & 56CSS Series

"Medium Duty"
1/2 hp Motors



"OIL–LESS" ROTOR BLADES

"Oil–Less" rotor blades can be assembled in tools at extra cost, as follows.

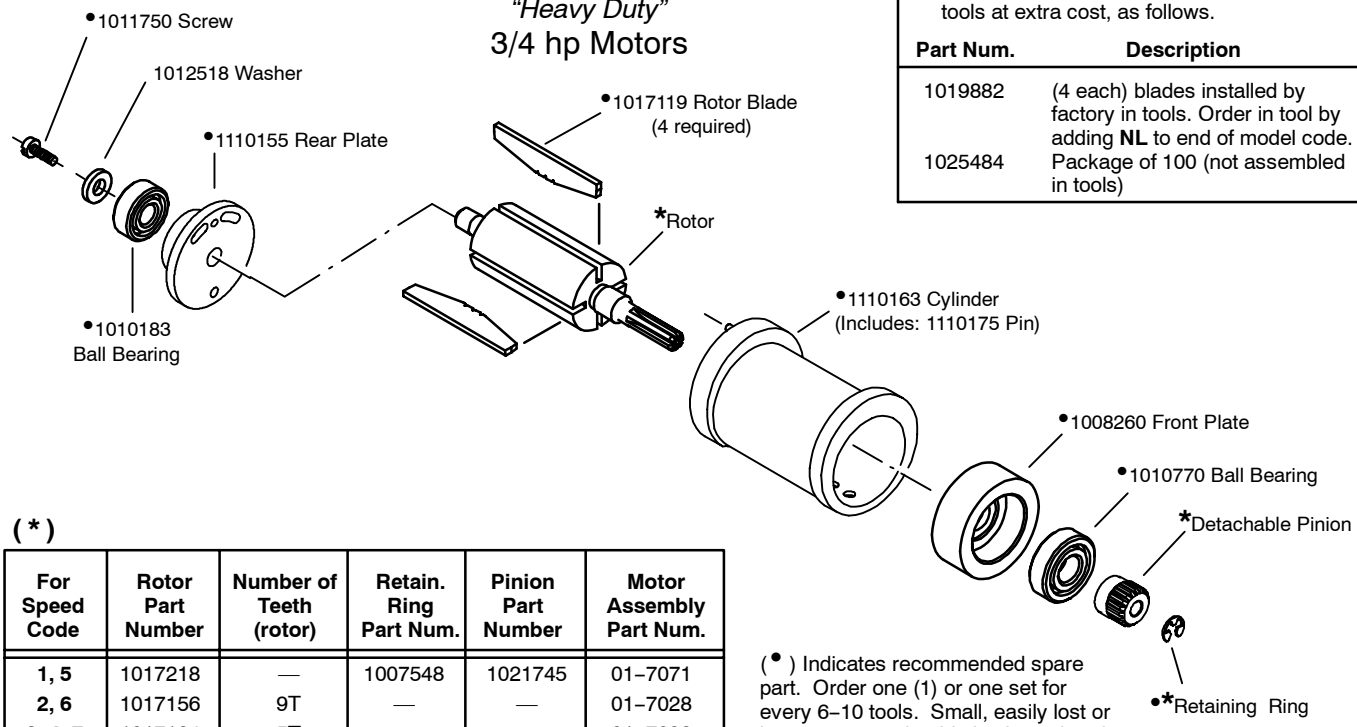
Part Num.	Description
1019724	(4 each) blades installed by factory in tools. Order in tool by adding **NL** to end of model code.
1025413	Package of 100 (not assembled in tools)

(*)

For Speed Code	Rotor Part Number	Number of Teeth (rotor)	Ret. Ring Part Num.	Pinion Part Number	Motor Assembly Part Num.
1, 5	1012811	—	1007548	1021745	1025624
2, 6	1012769	9T	—	—	1025625
3, 4, 7	1012812	5T	—	—	1025623

56CNL & 56CNS Series

"Heavy Duty"
3/4 hp Motors



"OIL FREE" ROTOR BLADES

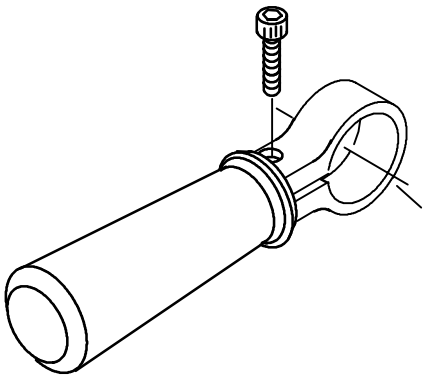
"Oil Free" rotor blades can be assembled in tools at extra cost, as follows.

Part Num.	Description
1019882	(4 each) blades installed by factory in tools. Order in tool by adding **NL** to end of model code.
1025484	Package of 100 (not assembled in tools)

(*)

For Speed Code	Rotor Part Number	Number of Teeth (rotor)	Retain. Ring Part Num.	Pinion Part Number	Motor Assembly Part Num.
1, 5	1017218	—	1007548	1021745	01–7071
2, 6	1017156	9T	—	—	01–7028
3, 4, 7	1017184	5T	—	—	01–7038

(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.



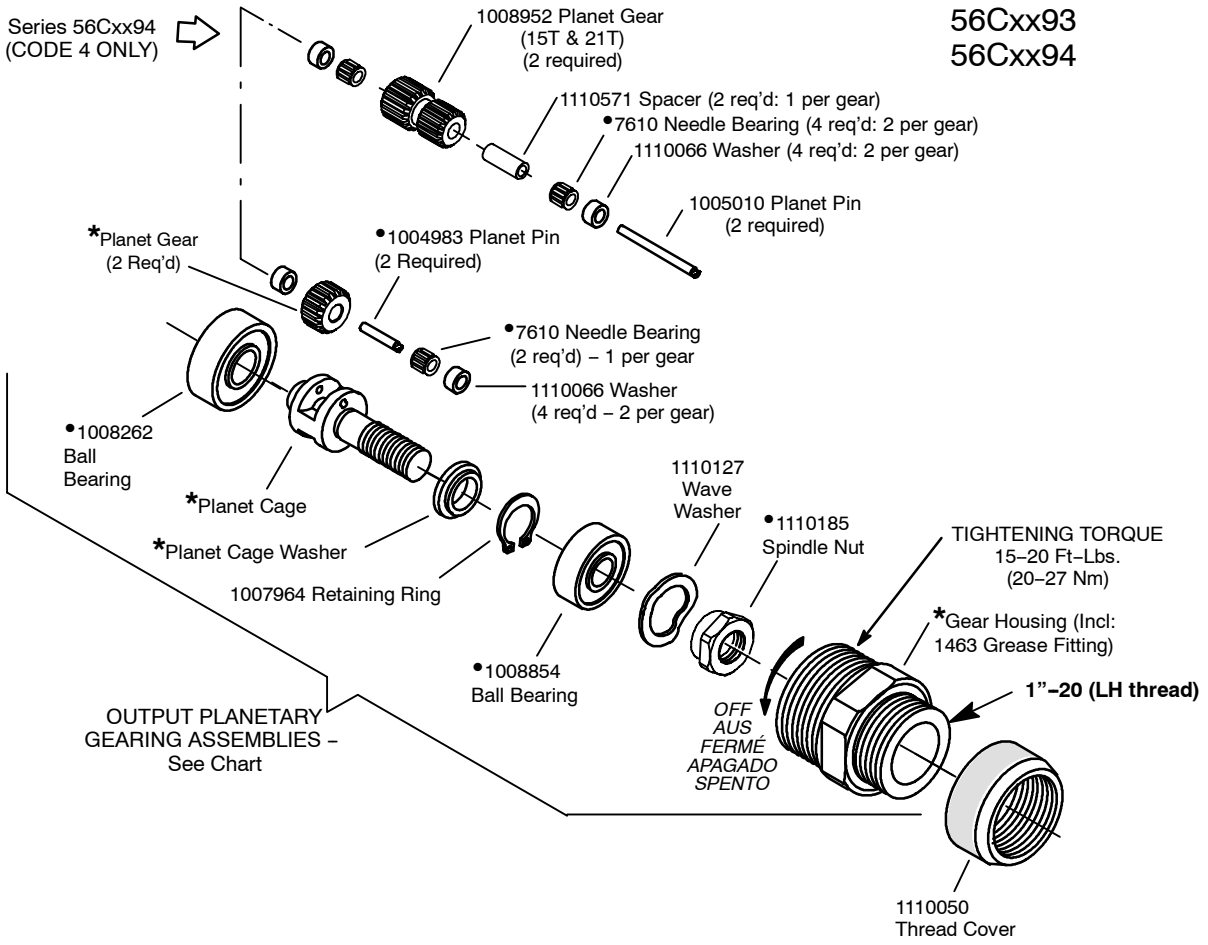
DEAD HANDLE, part #1023972
Supplied with all TERMINATION 53 (1/2" chuck) models. Available as extra equipment on all others.

Recommended for use with all fastening tools capable of 90 foot–pounds torque, or higher.

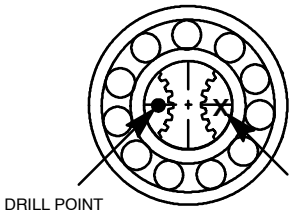
Includes:
1007629 Cap Screw (1/4"–20 x 3/4") and
539603 Handle Grip

TERMINATIONS 38, 40, 51, 53 & 54 Only

Single Stage Planetary Gearing
(Threaded Output Spindles):
56Cxx91
56Cxx92
56Cxx93
56Cxx94



Models: **56Cxx94**



Speed Code "4" ONLY: Timing of the Step Reduction Gear Assembly

Assemble the planet gears into the planet cage, making sure the notched planet pins fit over the planet cage washer. Rotate each gear until the aligning hole — on the end of one gear — is diametrically opposite the **"X"** mark of the other gear. Hold the gears in this position and slip the planet cage into the internal gear. This is important to avoid "wiping out" the gear teeth.

This is the only position where the gear teeth are lined up.

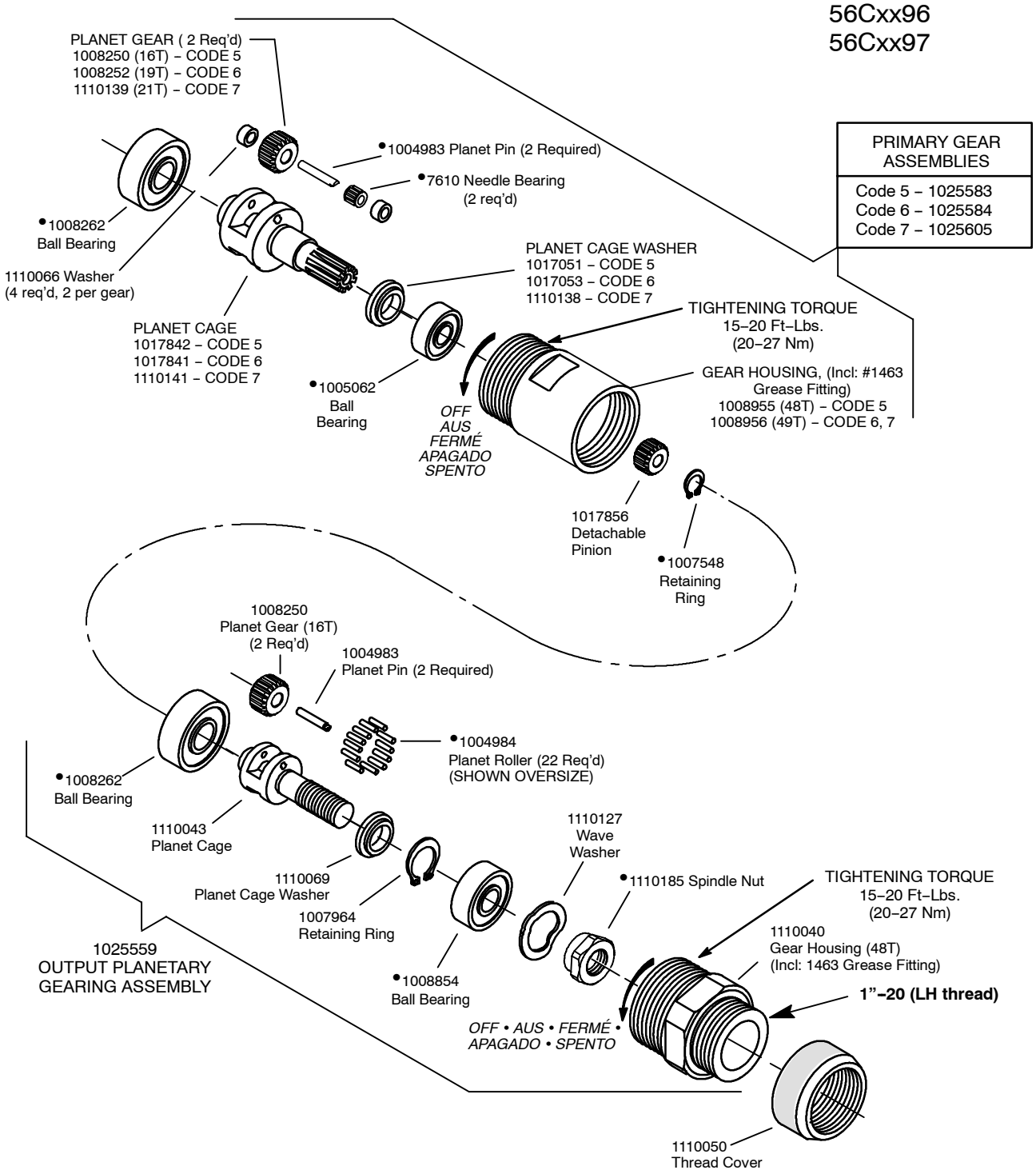
(*)

Part Name \ Model / Speed Code	56Cxx91	56Cxx92	56Cxx93	56Cxx94
GEAR ASSEMBLY (Complete)	1025933	1025564	1025567	1025568
Pl. Cage Washer	1110069	1110070	1110071	1110071
(diameter):	(0.743")	(0.677")	(0.636")	(0.636")
Gear Housing	1110040	1110042	1110042	1110063
(num. teeth)	(48T)	(49T)	(49T)	(43T)
Planet Cage	1110043	1110044	1110045	1110060
Planet Gears (2 ea.)	1008250	1008252	1110139	1008952
(num. teeth)	(16T)	(19T)	(21T)	(21T/15T)

(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

TERMINATIONS 38, 40, 51, 53 & 54 Only

Double Stage Planetary Gearing
(Threaded Output Spindles):
56Cxx95
56Cxx96
56Cxx97

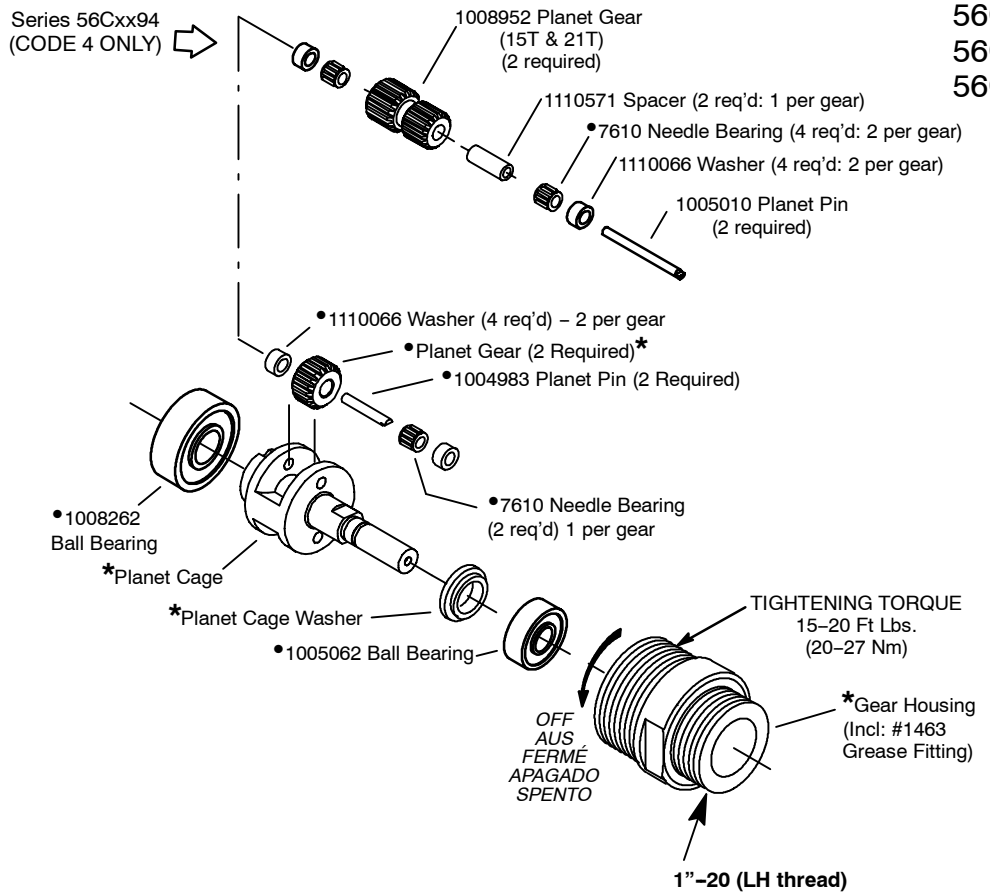


PRIMARY GEAR ASSEMBLIES
Code 5 – 1025583
Code 6 – 1025584
Code 7 – 1025605

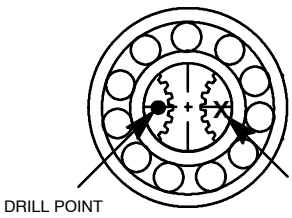
(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

TERMINATIONS 70, 71, 72, 73 Only

Single Stage Planetary Gearing
(Screwdriver Clutch models):
56Cxx91
56Cxx92
56Cxx93
56Cxx94



Models: **56Cxx94**



Speed Code "4" ONLY: Timing of the Step Reduction Gear Assembly

Assemble the planet gears into the planet cage, making sure the notched planet pins fit over the planet cage washer. Rotate each gear until the aligning hole — on the end of one gear — is diametrically opposite the **"X"** mark of the other gear. Hold the gears in this position and slip the planet cage into the internal gear. This is important to avoid "wiping out" the gear teeth.

This is the only position where the gear teeth are lined up.

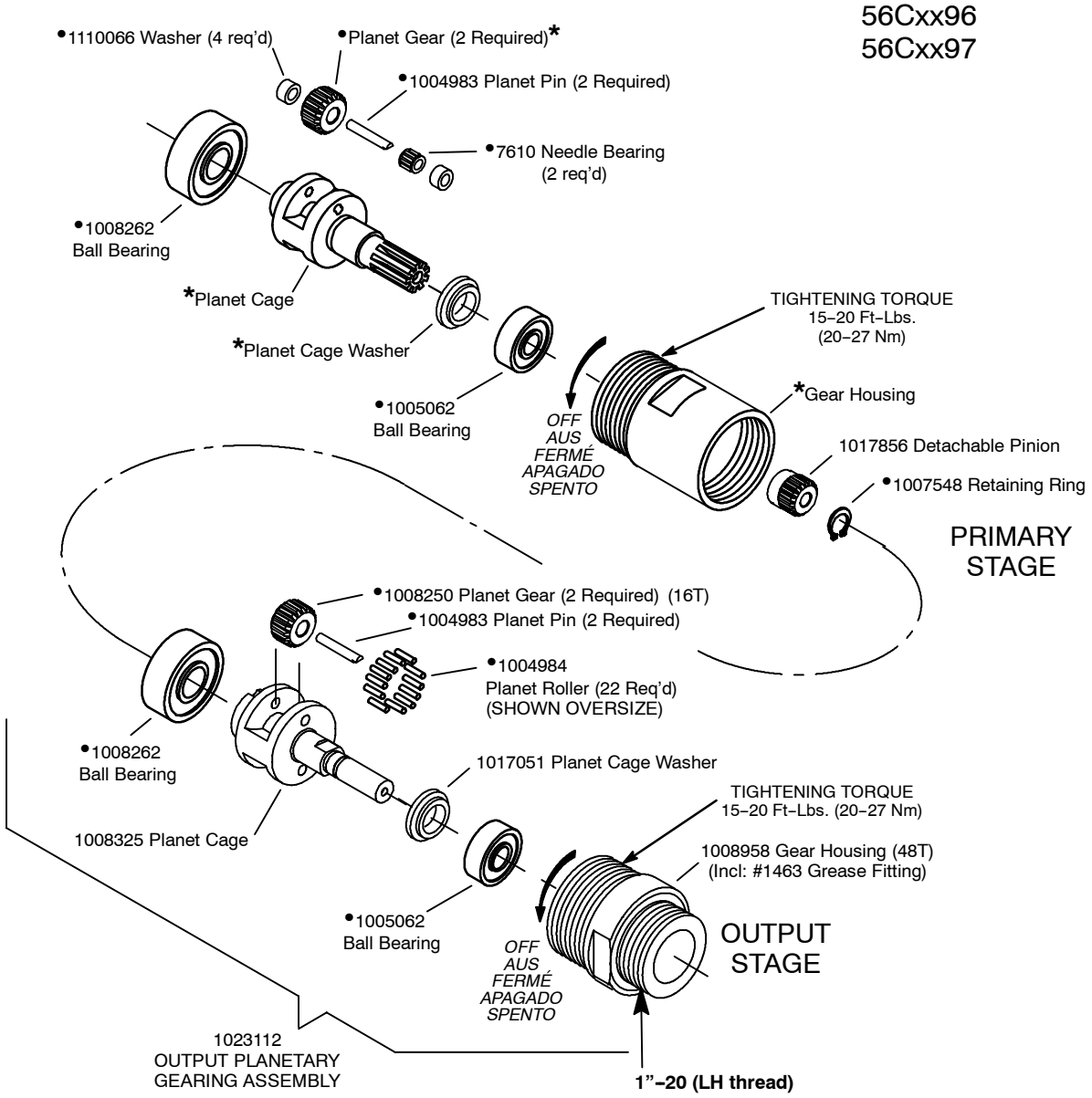
(*)

Part Name / Model Speed Code	56Cxx91	56Cxx92	56Cxx93	56Cxx94
GEAR ASSEMBLY (Complete)	01–7048	01–7047	01–7046	1023122
Pl. Cage Washer	1017051	1017053	1017052	1017052
(diameter):	(0.747")	(0.680")	(0.640")	(0.640")
Gear Housing	1008958	1008957	1008957	1008951
(num. teeth)	(48T)	(49T)	(49T)	(43T)
Planet Cage	1008325	1008238	01–7027	1008950
Planet Gears (2 ea.)	1008250	1008252	1110139	1008952
(num. teeth)	(16T)	(19T)	(21T)	(21T/15T)

(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

TERMINATIONS 70, 71, 72, 73 Only

Double Stage Planetary Gearing
(Screwdriver Clutch models):
56Cxx95
56Cxx96
56Cxx97

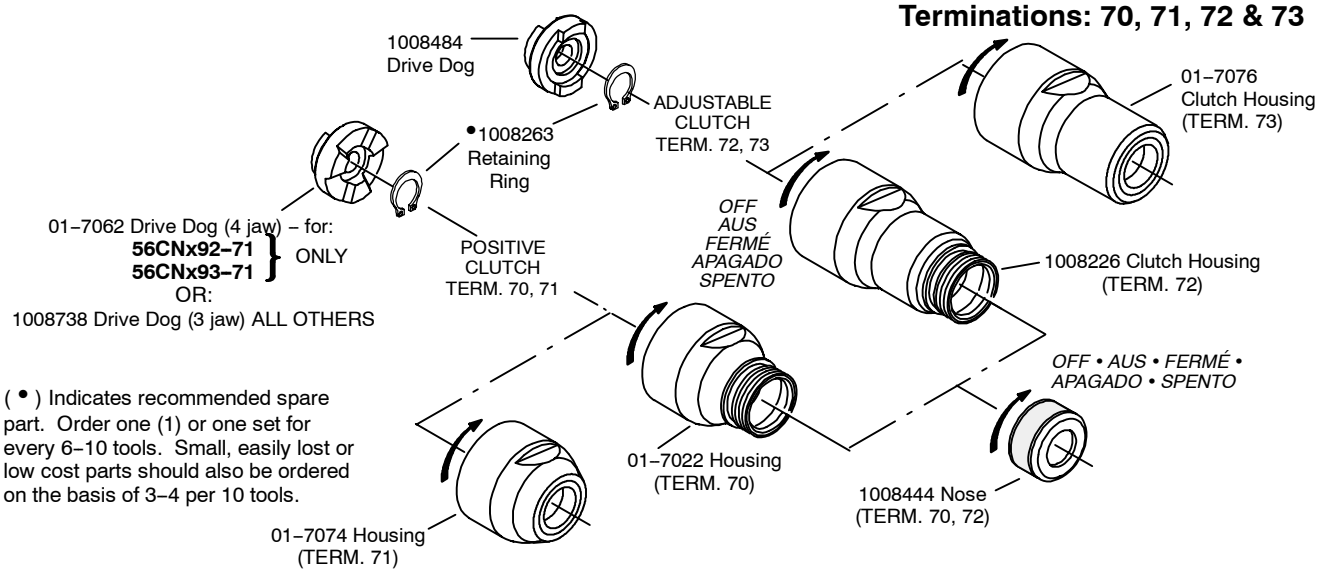


(*) PRIMARY STAGE

Part Name / Model Speed Code	56Cxx95	56Cxx96	56Cxx97
PRIMARY STAGE GEAR ASSEMBLY (Complete)	1025583	1025584	1025605
Pl. Cage Washer (diameter):	1017051 (0.747")	1017053 (0.680")	1110138 (0.646")
Gear Housing (num. teeth)	1008955 (48T)	1008956 (49T)	1008956 (49T)
Planet Cage	1017842	1017841	1110141
Planet Gears (2 ea.) (num. teeth)	1008250 (16T)	1008252 (19T)	1110139 (21T)

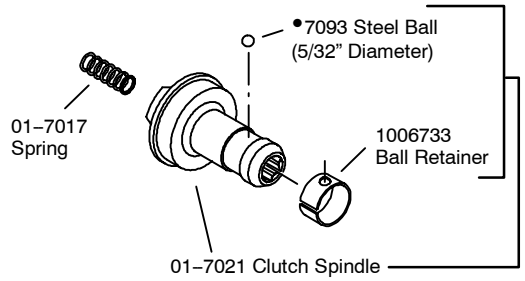
(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

Terminations: 70, 71, 72 & 73

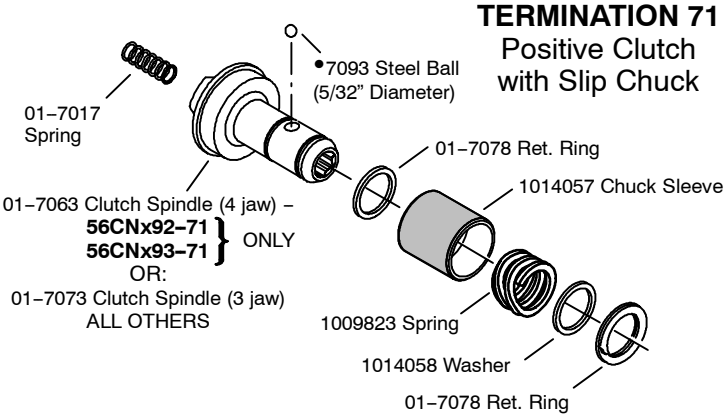


(•) Indicates recommended spare part. Order one (1) or one set for every 6–10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3–4 per 10 tools.

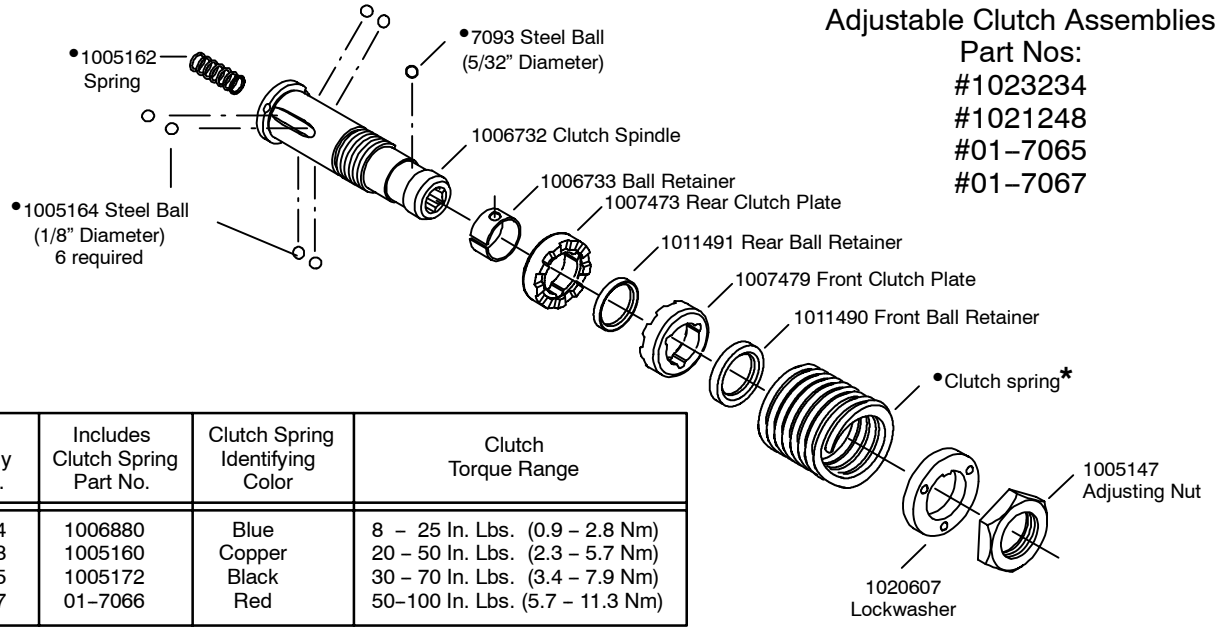
TERMINATION 70
Positive Clutch
Part No. 01–7020



TERMINATION 71
Positive Clutch
with Slip Chuck



TERMINATION 72
Adjustable Clutch Assemblies
Part Nos:
#1023234
#1021248
#01–7065
#01–7067

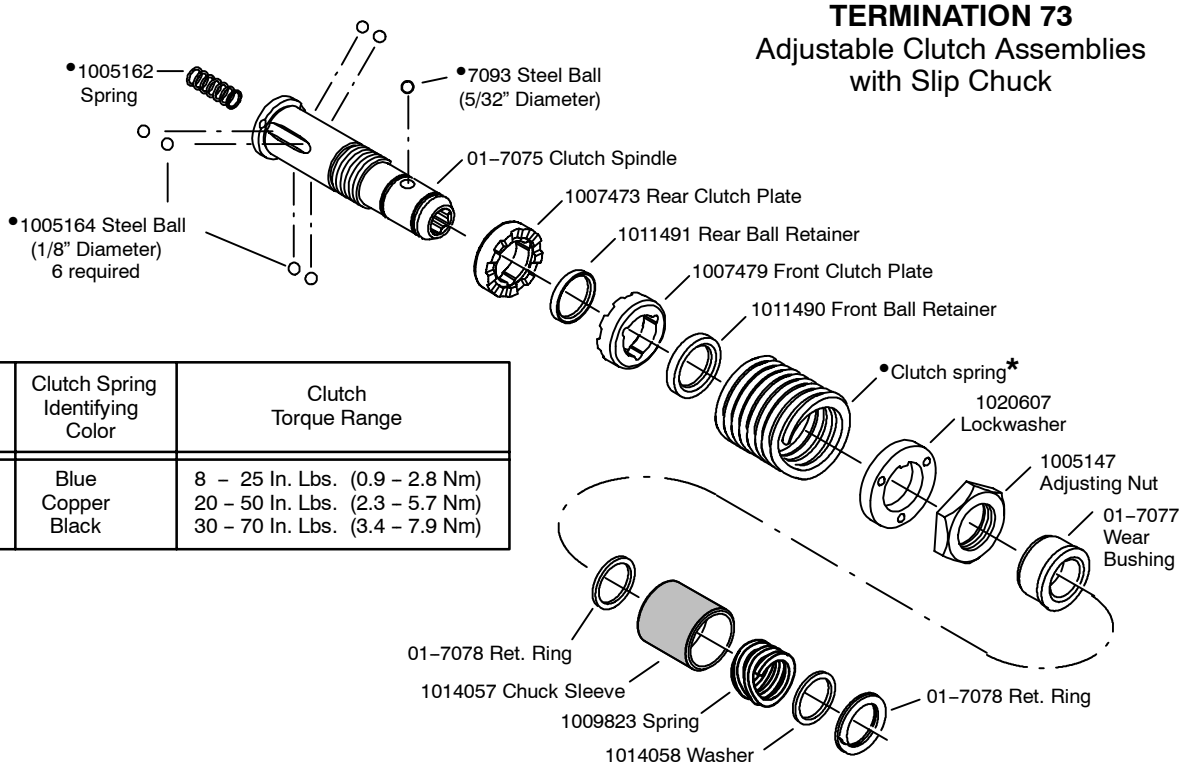


(*)

Clutch Assembly Part No.	Includes Clutch Spring Part No.	Clutch Spring Identifying Color	Clutch Torque Range
1023234	1006880	Blue	8 – 25 In. Lbs. (0.9 – 2.8 Nm)
1021248	1005160	Copper	20 – 50 In. Lbs. (2.3 – 5.7 Nm)
01–7065	1005172	Black	30 – 70 In. Lbs. (3.4 – 7.9 Nm)
01–7067	01–7066	Red	50–100 In. Lbs. (5.7 – 11.3 Nm)

DOTCO
56C Series Drills
Tool Terminations

TERMINATION 73
Adjustable Clutch Assemblies with Slip Chuck



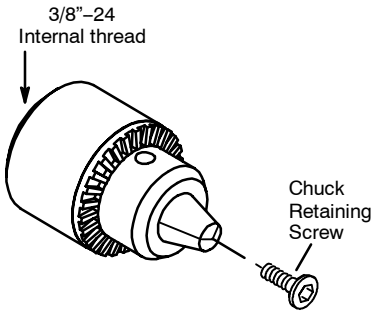
(*)

Clutch Spring Part No.	Clutch Spring Identifying Color	Clutch Torque Range
1006880	Blue	8 – 25 In. Lbs. (0.9 – 2.8 Nm)
1005160	Copper	20 – 50 In. Lbs. (2.3 – 5.7 Nm)
1005172	Black	30 – 70 In. Lbs. (3.4 – 7.9 Nm)

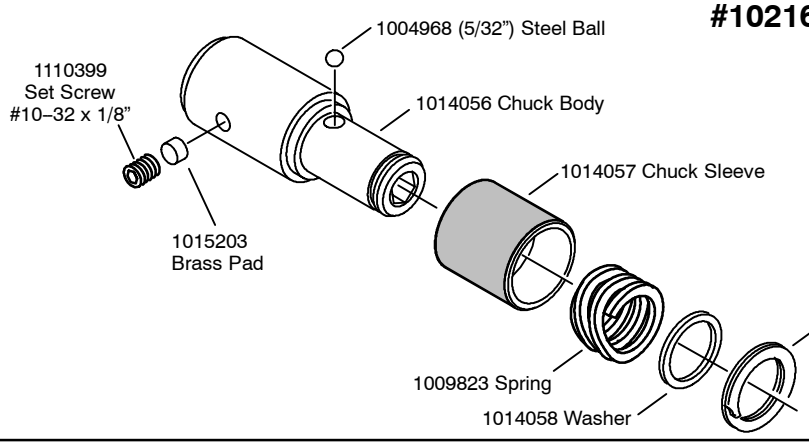
Drill Chuck Terminations – 38, 42, 47, 51, 52 & 53

Drill Chuck Options, includes:

Termination Number	Chuck Part Number	Chuck Capacity	Spindle Wrench	Chuck Ret. Screw	Jacobs Description
–38	#1005078 (w/1005079 Chuck Key)	0 – 1/4"	#1014471	#7095	**#1BA** (smooth sleeve)
–42	#1001505 (w/1005023 Chuck Key)	0 – 1/4"	#1014471	#7095	**#7BA** (fluted sleeve)
–47	#863420 (w/Jacobs #KG Chuck Key)	0 – 5/16"	#1014471	#7095	**#20BA** (fluted sleeve)
–51	#1001252 (w/1006375 Chuck Key)	0 – 3/8"	#1014471	#1110366	**#41BA** (smooth sleeve)
–52	#14–1492 Keyless Chuck	0 – 1/4"	—	—	—
–53	#1009726 (w/1005022 Chuck Key)	5/64" – 1/2"	#1014471	#1110366	**#33BA** (fluted sleeve)



#1021679 Quick Change "Slip Chuck" – Termination 54



Termination Number	QC Chuck Part Number	Output Spindle	Thread Mount
–54	#1021679	1/4" hex (internal)	3/8"–24