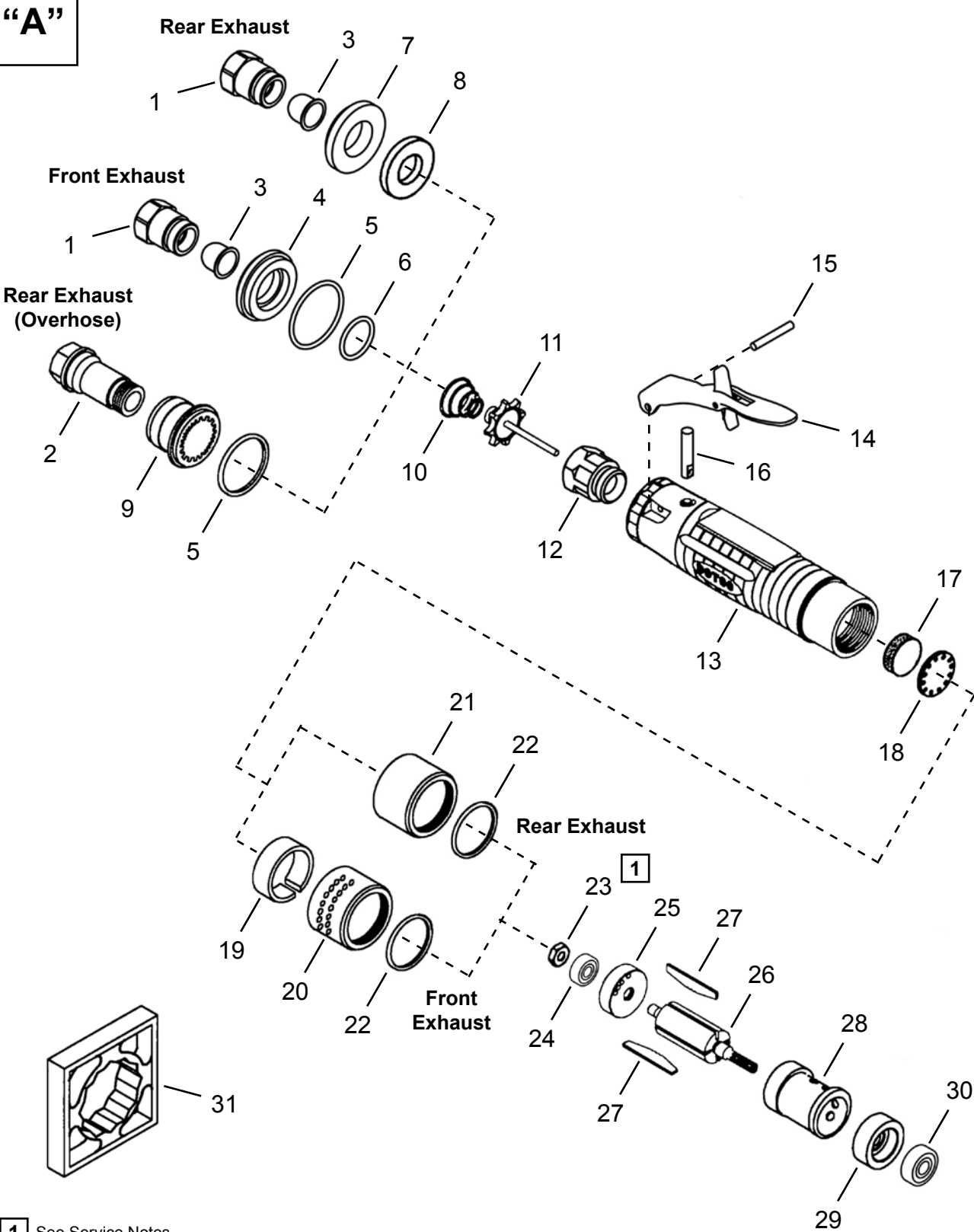




	15	L	F	0	X	X	-	XX	NL
Tool Series									
15 = Drill									
Throttle Type									
L = Locking Lever									
Motor Size									
F = 0.4 hp									
Handle Style									
0 = Straight									
Exhaust Type									
5 = Front Exhaust									
8 = Rear Exhaust									
Speed Options (RPM)									
0 = 29,000									
1 = 5,200									
2 = 3,800									
3 = 3,200									
4 = 2,400									
5 = 1,000									
6 = 700									
7 = 600									
Termination Code									
37 = 5/32" Jacobs Chuck (#0B), 5/16"-24 Thread (use with #7484 Adapter)									
38 = 1/4" Jacobs Chuck (#1BA)									
40 = No Chuck									
42 = 1/4" Jacobs Chuck (#7BA)									
47 = 5/16" Jacobs Chuck (#20BA)									
51 = 3/8" Jacobs Chuck (#31BA)									
52 = 1/4" Keyless Chuck									
Blade Option (extra cost)									
NL = Oil Less Blade									

“A”



1 See Service Notes

Illustration "A": Motor Assembly

Ref	Number	#	X	EN
				Description
--	Table "A"	1		Motor Assembly (includes Ref. 1-30)
1	01-2505	1	2	Inlet Adapter (Front and Rear Exhaust without Overhose)
2	01-1031	1	2	Inlet Adapter (Rear Exhaust with Overhose)
3	203480PT	1	3	Air Inlet Strainer
4	01-2506	1		Exhaust Plug
5	3036PT	1	3	O-Ring
6	2965	1	3	O-Ring
7	01-2520	1	1	Diffuser
8	1110134	1	3	Felt Muffler
9	01-1032	1	1	Muffler
10	01-2519	1	3	Valve Spring
11	01-2518	1	1	Valve
12	01-2504	1		Valve Seat
13	01-1065	1		Motor Housing
14	01-1267	1	1	Lock Off Lever Assembly
15	1042	1	1	Lock Off Lever Pin
16	01-1017	1		Push Rod
17	01-1046	1	3	Filter
18	01-1061	1		Filter Retainer
19	01-1066	1	3	Felt Muffler
20	01-1062	1		Muffler Body
21	01-1063	1		Muffler
22	2301PT	1	3	O-Ring
23	1012215	1	2	Rotor Nut
24	1009879	1	2	Ball Bearing
25	1110072	1		Rear End Plate
26	Table "A"	1		Rotor
27	1008914	4	12	Rotor Blade (standard blades)
	1019725	4	12	Rotor Blade (Oil-Less blades)
	1025414	1		Rotor Blade (Oil-Less blades - package of 100)
28	1017579	1		Cylinder
29	1008916	1		Front End Plate
30	1007537	1	2	Ball Bearing
31	14-0851	1		Housing Wrench (12 point)

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

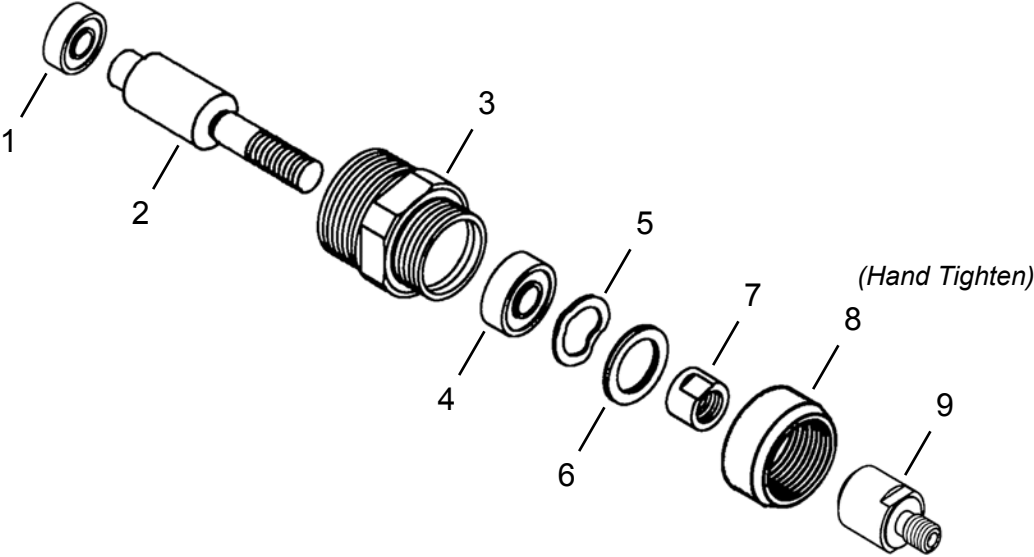
Table "A"

Ref.	Description	#	15LF050 15LF080	#	15LF051 15LF055 15LF081 15LF085	#	15LF052 15LF056 15LF082 15LF086	#	15LF053 15LF057 15LF083 15LF087	#	15LF054 15LF084
--	Motor Assembly	1	1025618	1	1025550	1	1025554	1	1025552	1	1025556
7	Rotor	1	1110122	1	1015872	1	1017518	1	1017517	1	1017516

“B”

1025595 Nose Assembly

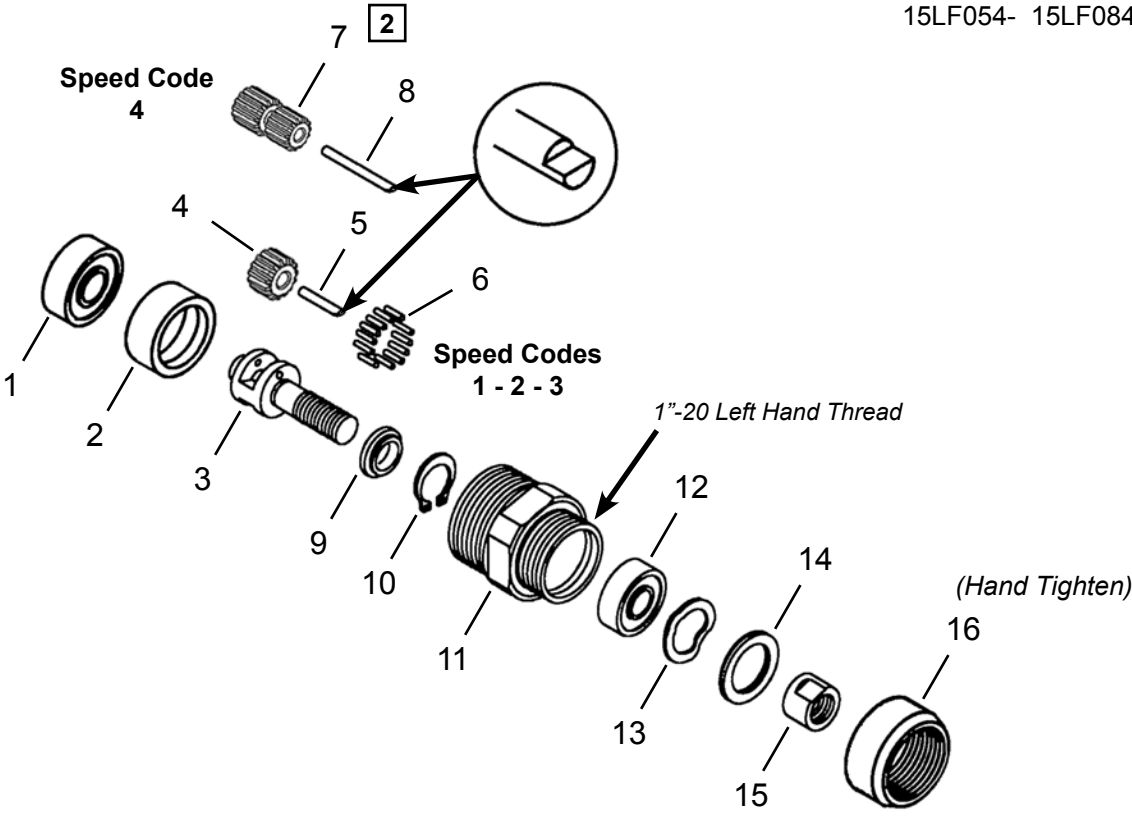
Models
15LF050-
15LF080-



“C”

Single Stage Output Gearing

Models
15LF051- 15LF081-
15LF052- 15LF082-
15LF053- 15LF083-
15LF054- 15LF084-



2

See Service Notes

Illustration "B": Nose Assembly

Ref	Number	#	X	EN
				Description
--	1025595	1		Nose Assembly (includes Ref. 1-7)
1	1005062	1	2	Ball Bearing
2	1110123	1		Output Spindle (3/8"-24 thread)
3	1110119	1		Housing
4	1008854	1	2	Ball Bearing
5	1110127	1	2	Wave Washer
6	1008859	1	2	Retaining Ring
7	1110185	1		Spindle Nut
8	1110050	1		Thread Cover
9	7484PT	1		Chuck Adapter (Termination -37)

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

Illustration "C": Single Stage Gearing

Ref	Number	#	X	EN
				Description
--	Table "C"	1		Single Stage Gearing Assembly (includes Ref. 1-15)
1	1005062	1	2	Ball Bearing
2	Table "C"	1		Bearing Adapter
3	Table "C"	1		Planetary Gear Cage
4	Table "C"	2	4	Planetary Gear (speed codes 1, 2, 3)
5	1008920	2	4	Planetary Gear Pin (speed codes 1, 2, 3)
6	1008924	24	48	Planetary Gear Roller (speed codes 1, 2, 3)
7	1008978	2	4	Planetary Gear (speed code 4)
8	1008977	2	4	Planetary Gear Pin (speed code 4)
9	Table "C"	1		Planetary Gear Cage Washer
10	1010099	1	1	Retaining Ring
11	Table "C"	1		Gear Housing
12	1008854	1	2	Ball Bearing
13	1110127	1	2	Wave Washer
14	1008859	1	2	Retaining Ring
15	1110185	1		Spindle Nut
16	1110050	1		Thread Cover

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

Table "C"

Ref.	Description	#	15LF051 15LF081	#	15LF052 15LF082	#	15LF053 15LF083	#	15LF054 15LF084
--	Gear Assembly	1	1025981	1	1025555	1	1025557	1	1025553
	RPM		5,200		3,800		3,200		2,400
2	Bearing Adapter		-----		-----	1	1008921	1	1008921
3	Planetary Gear Cage	1	1110948	1	1110059	1	1110058	1	1110061
4	Planetary Gear	2	1110949 (14T)	2	1008968 (17T)	2	1008919 (19T)		-----
9	Planetary Gear Cage Washer	1	1110054	1	1110055	1	1110056	1	1110055
11	Gear Housing	1	1110950	1	1110047	1	1110048	1	1110049

(T) Teeth

“D”

15LF055- 15LF085-
15LF056- 15LF086-
15LF057- 15LF087-

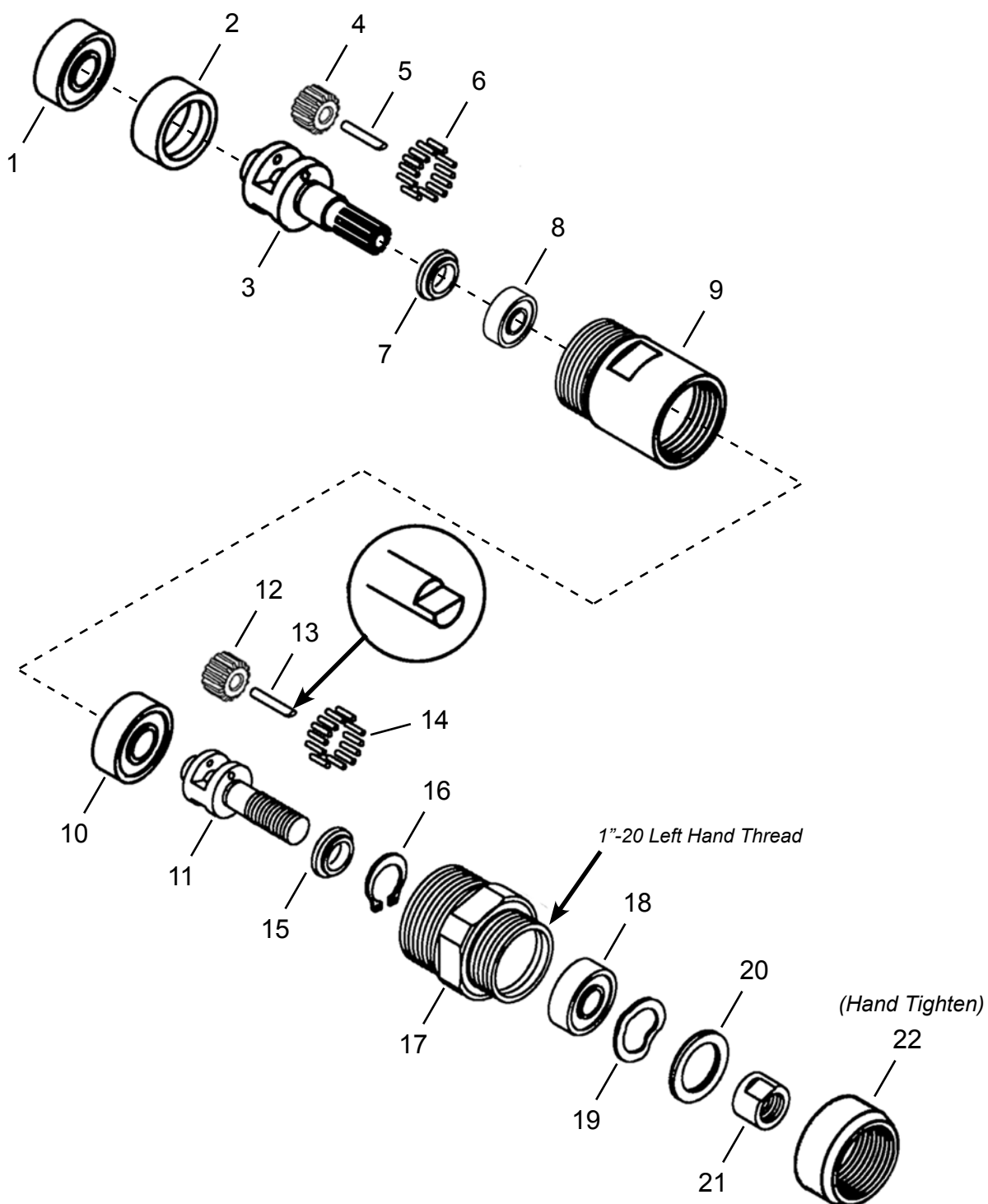


Illustration "D": Double Stage Gearing

Ref	Number	#	X	EN
				Description
--	Table "D"	1		Primary Planetary Gearing Assembly (includes Ref. 1-9)
1	1005062	1	2	Ball Bearing
2	Table "D"	1		Bearing Adapter
3	Table "D"	1		Planetary Gear Cage
4	Table "D"	2	4	Planetary Gear
5	1008920	2	4	Planetary Gear Pin
6	1008924	24	48	Planetary Gear Roller
7	Table "D"	1		Planetary Gear Cage Washer
8	1007537	1	2	Ball Bearing
9	Table "D"	1		Gear Housing
--	1025551	1		Output Planetary Gearing Assembly (includes Ref. 10-22)
10	1005062	1	2	Ball Bearing
11	1110057	1		Planetary Gear Cage
12	1008973	2	4	Planetary Gear (14T)
13	1008920	2	4	Planetary Gear Pin
14	1008924	24	48	Planetary Gear Roller
15	1110054	1		Planetary Gear Cage Washer
16	1010099	1	1	Retaining Ring
17	1110046	1		Gear Housing
18	1008854	1	2	Ball Bearing
19	1110127	1	2	Wave Washer
20	1008859	1	2	Retaining Ring
21	1110185	1		Spindle Nut
22	1110050	1		Thread Cover

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

Table "D"

Ref.	Description	#	15LF055 15LF085	#	15LF056 15LF086	#	15LF057 15LF087
--	Primary Planetary Gearing Assembly	1	1025247	1	1025180	1	102550
	RPM		1,000		700		600
2	Bearing Adapter		-----		-----	1	1008921
3	Planetary Gear Cage	1	1008985	1	1009679	1	1009681
4	Planetary Gear	2	1008973 (14T)	2	1008968 (17T)	2	1008919 (19T)
7	Planetary Gear Cage Washer	1	1008986	1	1009680	1	1009682
9	Gear Housing	1	1019146	1	1019147	1	1019148

(T) Teeth

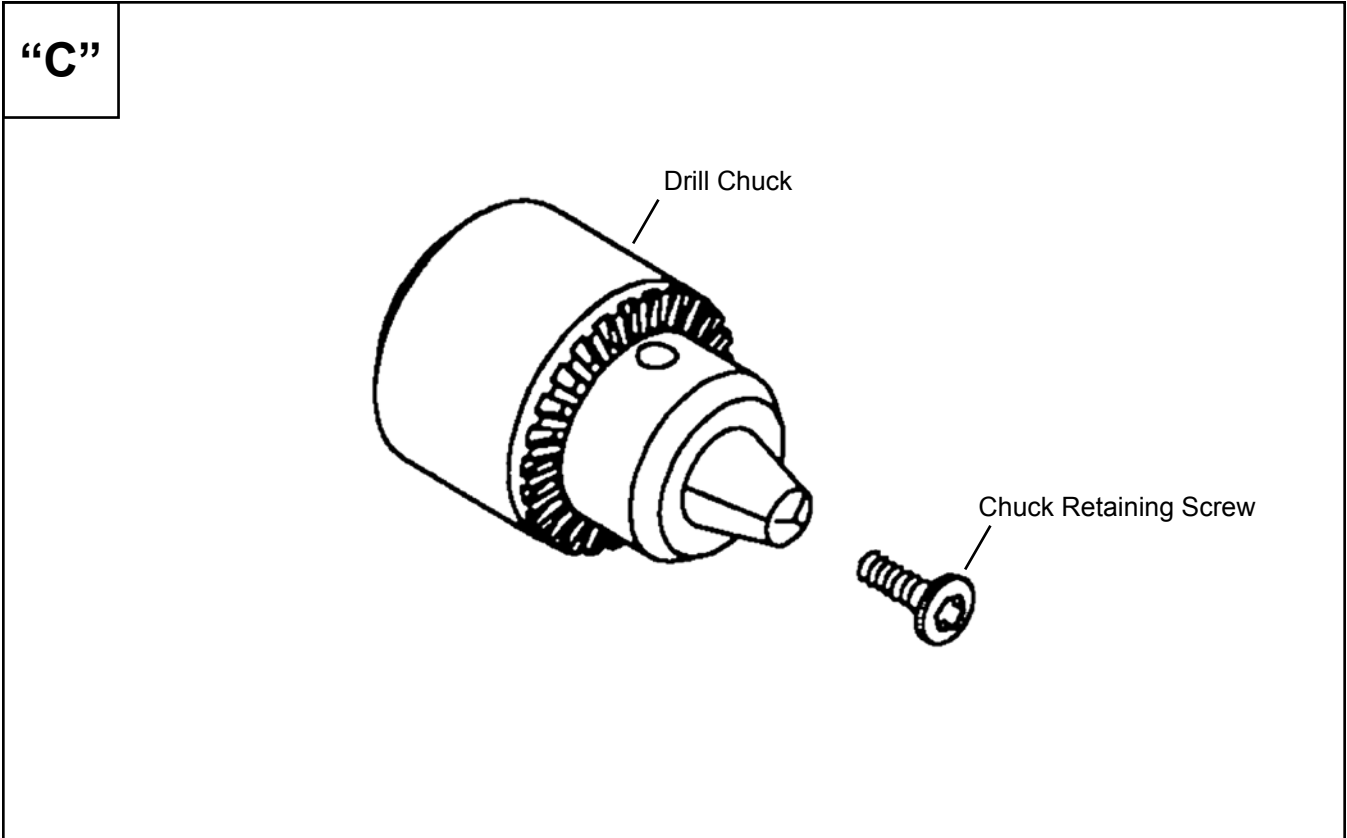
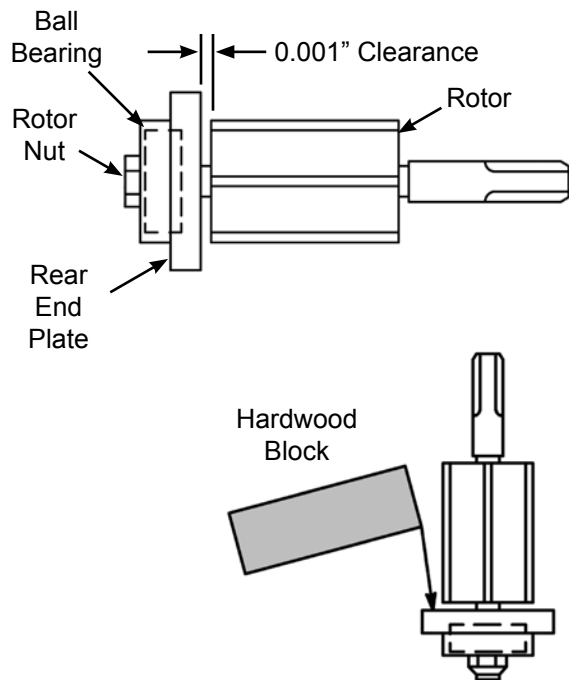


Illustration "E": Drill Chuck Options

Termination	Drill Chuck with Chuck Key	Chuck Key	Chuck Capacity	Thread Mount	Spindle Wrench	Chuck Retaining Screw (Special)	Jacobs Chuck Description
-37 *	1075	620PT	0-5/32"	5/16"-24	1014471	-----	#0B (smooth sleeve)
-38	1005078	3641	0-1/4"	3/8"-24	1014471	7095	#1BA (smooth sleeve)
-42	1001505	1005023	0-1/4"	3/8"-24	1014471	7095	#7BA (fluted sleeve)
-47	863420	KG	0-5/16"	3/8"-24	1014471	7095	#20BA (fluted sleeve)
-51	1001252	1006375	0-3/8"	3/8"-24	1014471	1110366	#41BA (fluted sleeve)

* Note: Use with 7484PT Chuck Adapter (5/16" to 3/8" thread)

1 Motor Assembly



Firmly seat the ball bearing into the rear end plate.

Assemble the rotor to the rear end plate and secure with the rotor nut.

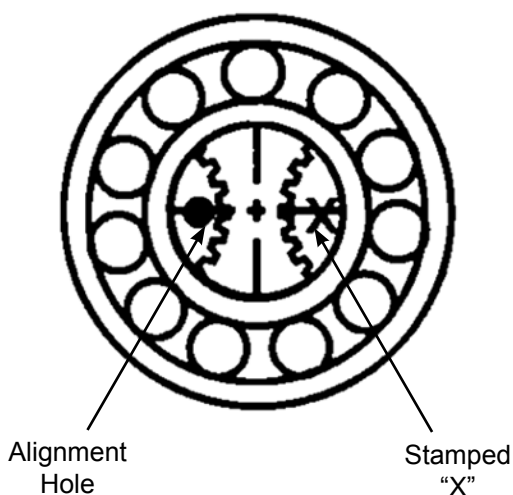
Begin tightening the rotor nut but do not over-tighten.

CAUTION: Over-tightening will cause damage to the ball bearing in the rear end plate.

While tightening, alternately spin the rotor until there is approximately 0.001" clearance between the face of the rear end plate and the rotor.

Hold the rotor and rear end plate assembly (plate downward) and strike the edge of the rear end plate with a hardwood block. This will help seat the threaded components.

2 Step Reduction Gear Timing



Speed Code 4:

Assemble the planetary gears into the planetary gear cage. Make certain the notched planetary gear pins fit over the planetary gear washer.

Rotate each gear until the alignment hole on the end of one gear is positioned opposite the stamped "X" mark on the other gear.

Hold the gears in this position and slip the planetary gear cage into the internal gear of the gear housing. This procedure is important to avoid "wiping out" the gear teeth.

This is the only position where the gear teeth are in alignment.

Sales & Service Centers

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