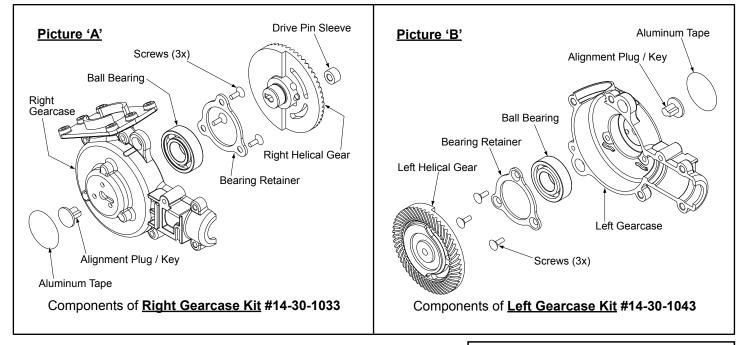


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	45-16-0927	Shoe/Water Barrier Assembly	(1)
2	06-82-5320	8-32 x 5/8" Pan Hd. Tapt. T-20 Screw	(2)
3	14-46-1011	Steel Quik-Lok [®] Blade Clamp Kit	(1)
3a	34-60-3680	Retaining Ring	(1)
3b	42-50-0076	Front Cam	(1)
3c	44-60-0626	Lock Pin	(1)
3d	42-50-0077	Rear Cam	(1)
3e	45-22-0081	Sleeve	(1)
Зf	40-50-0161	Torsion Spring	(1)
3g	31-15-0511	Spring Cover	(1)
3h	44-86-0740	Front Cap	(1)
3j	45-06-0880	Felt Seal	(1)
3k		Spindle Bushing	(1)
3m		Spindle Shaft	(1)
4	06-82-2025	M3.5 x 16mm Pan Hd. Plast. T-10 Sc	r. (10)
5	31-44-2719	Housing Kit	(1)
5a		Housing Cover - Right Housing	(1)
5b		Housing Support - Left Housing	(1)
6	14-30-1033	Right Gear Case Kit	(1)
6a	23-70-3350	Aluminum Tape	(2)
6b		Gear Case - Right	(1)
6c		Ball Bearing	(2)
6d		Bearing Plate	(2)
6e		Bearing Plate Screw	(6)
6f		Spiral Beval Gear	(1)
6g	44-86-0803	Drive Pin Sleeve	(1)
7	14-30-1043	Left Gear Case Kit	(1)
7a		Spiral Bevel Gear	(1)
7b		Gear Case - Left	(1)
8	06-82-5320	8-32 x 5/8 Pan Hd Slt. T-20 Screw	(7)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	
9	16-01-0900	Rotor Assembly	(1)	
10	05-78-0105	M4 x 10mm Pan Hd. Taptite T-20 Sc	r (2)	
12	31-50-1155	Motor Insulator Kit	(1)	
12a		Motor Insulator Halve - Right	(1)	
12b		Motor Insulator Halve - Left	(1)	
13	06-82-1050	4-20 x 0.76 Pan Hd. ST T-10 Screw	(6)	
14	40-50-1090	Terminal Block Spring	(1)	
15	14-20-2719	Electronic Assembly	(1)	
16	45-24-0682	Locking Shuttle	(1)	
17	05-74-0985	M4 x 12mmPan Hd. Tapt. T-20 Scree	N (4)	
20	12-20-1119	Service Nameplate	(1)	
31	38-50-0415	Spindle/Bushing Kit	(1)	
40	50-55-3560	M18 FUEL Contractor Bag	(1)	
50	31-53-0280	Alignment Plug - Service Tool		
		(Not component of tool - one per in kits	6 & 7)	
FIG.	LUBRICATION	N		
		se, No. 49-08-4175):		
3h,3j		with lightweight oil prior to assemb	ly with	
01 0		Bushing (3k) and Spindle (3m).	(
3k,3m		e O.D. of Spindle Shaft (3m) and I.D.	of Bush	
3m	ing (3k) with g		oft (3m)	
6b,7b	Place a dab of grease in the rear slot of Spindle Shaft (3m). Place .25 ounce grease in gear cavity of Gear Cases (6b,7b).			
00,10	Coat the spind	le shaft pocket in Gear Cases (6b,7b)		
6f,6g	Lightly coat the	e Drive Pin of Spiral Bevel Gear (6f) a		
		earing Sleeve (6g) with grease.		
6f,7a,9		at all of the teeth of the Spiral Bevel F		
	on Rotor (9) ar	nd Spiral Bevel Gears (6f,7a) with gre	ase.	
	Μ	ILWAUKEE TOOL • www.milwaukee	etool.com	
		13135 W. Lisbon Road, Brookfield,		
			Drwg. 1	



Picture "A and B" show the components that make-up the Right and Left Gearcase kits for M18[™] FUEL[™] Hackzall[®] 2719-20. Each kit contains one [1] Alignment Plug / Key and [1] round Aluminum adhesive backed disc (not sold separately) which will be needed when servicing / replacing the gearcase assemblies of the M18[™] FUEL[™] Hackzall[®].

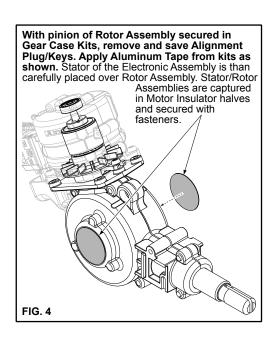
The Right and Left helical gear assemblies are supported independently in their respective gearcase assembly and turn independently. Each of the helical gears have a counter weight and when the two gearcase halves are assembled together **gearing must be synchronized** to eliminate excessive vibration.

Synchronization of the two gear case halves can be accomplished by using the Alignment Plug / Key supplied with each gearcase kit. <u>Anytime</u> rotor assembly 16-01-0900 has to be removed from the gearcase halves, helical gears <u>will need to be resynchronized using the alignment plug / keys.</u>

Synchronizing / Assembling Gearcase Kit Assemblies 14-30-1033 – 14-30-1043

Once the **rotor assembly** has been removed from the gearcase assembly the keyway cut into each **helical gear** will no longer be aligned with the **gearcase keyway** (fig. 1) due to the counter balance of the helical gear.

- 1. Rotate (by hand) **helical gear** in right gearcase (picture "A") until **helical gear keyway** is in-line with the **gearcase keyway** (fig. 2).
- 2. Install plug / key from kit into gearcase / helical gear keyway (fig. 3).
- 3. Install drive pin sleeve onto pin located on right helical gear (coat with type "L" grease).



 Install spindle / gearcase bushing assembly into right gearcase (coat components with type "L" grease and make sure spindle lock pin hole faces right gearcase). Note: If new felt seal is being

installed saturate seal with a lightweight oil.

 Place approximately 1/8oz. Type "L" grease onto teeth of right helical gear. (Set assembly aside).

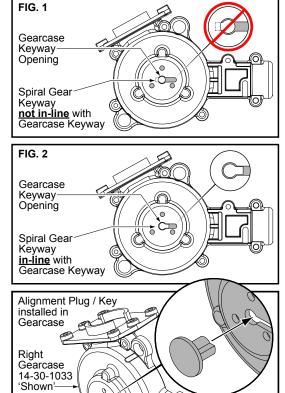
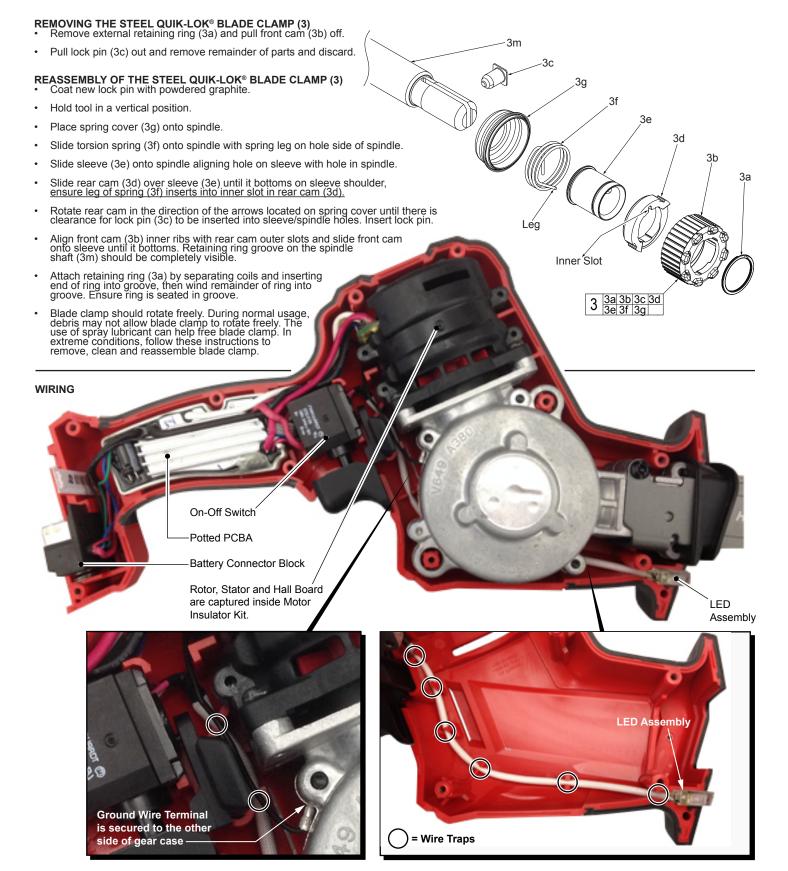


FIG. 3

6. Rotate (by hand) helical gear in left gearcase (picture "B") until helical gear keyway is in-line with the gearcase keyway (fig. 2).

Plug / Key from kit

- 7. Install plug / key from kit into gearcase / helical gear keyway (fig. 3).
- 8. Place approximately 1/8oz. Type "L" grease onto teeth of left helical gear.
- Assemble lubricated left gearcase assembly onto lubricated right gearcase assembly and install five [5] gearcase screws.
- 10. Install rotor assembly 16-01-0900 and secure to gearcase assembly.
- 11. Remove left and right alignment plug (s) and apply aluminum tape disc from kits to each side of gearcase (fig.4). <u>SAVE PLUGS</u> in case rotor needs servicing or replacing.



- As an aid to reassembly, take note of wire routings and position in wire guides and traps while dismantling tool.
- Be sure all components are firmly and squarely seated in handle cavities.
- Be careful and avoid pinching wires between housing halves by tucking wires completely down in traps and channels when assembling.
- Prior to installing battery, check for proper functionality of switches, slides and buttons after housing halves are secure.
- Install battery and verify the proper operation of tool.

SCREW TORQUE SPECIFICATIONS						
			SEAT TORQUE			
FIG.	PART NO.	WHERE USED	(KG/CM) (IN/LBS)		
2	05-74-0985	Shoe Assembly	18-24	15.6-20.8		
2	05-74-0985	Motor Insulator	18-24	15.6-20.8		
4	06-82-2025	Housing Cover	5-8	4.3-6.9		
6e		Bearing Plate	14-18	12.1-15.6		
8	06-82-5320	Gear Case-Left	36-42	31.2-36.4		
10	05-78-0105	Rotor Assembly	24-30	20.8-26.0		
13	06-82-1080	Motor Insulator	12-18	10.4-15.6		