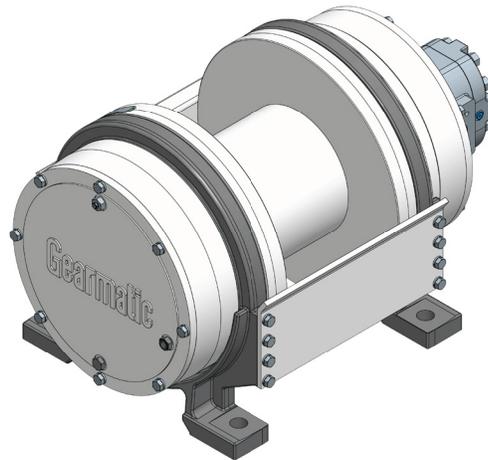


PARTS LIST

Planetary Hoist
with Free-fall Attachment
Part Number 07606



WRITE HOIST SERIAL NUMBER BELOW

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**First 2 numbers indicate
year manufactured**

For serial number location see page 2

Visit our Web site at www.paccarwinch.com for the most comprehensive collection of winch, hoist, and drive information on the Internet. Most publications and specification sheets are available for downloading.

FOREWORD

Read this entire publication and retain it for future reference.

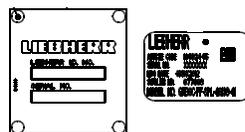
For inquiries regarding your Gearmatic Hoist or this publication, please contact the Gearmatic Service Department at 918-251-8511, Monday through Friday, 8:00 a.m. to 4:30 p.m. (CST).

The minimum service intervals specified are for operating hours of the prime mover.

The following parts list has been prepared to provide maintenance information for the Gearmatic Planetary Hoist Model GH30C.

Some illustrations in this manual may show details or attachments different from your hoist. Some components have been removed for illustrative purposes. Drawings in this manual represent a typical unit sold through our distribution channels. Some hoists, particularly those sold directly to original equipment manufacturers, may differ in appearance and options.

Model numbers and serial numbers are stamped on ID tags located on the tie plate. Always refer to the model number and serial number when requesting information or service parts.



ID tags on tie plate

EXPLANATION OF MODEL NUMBER

GH	30	C	-	FF	-	SPL	-	40	ISO	-	41
GEARMATIC HOIST	MODEL SERIES	DESIGN MODEL		FREE- FALL		SPECIAL ORDER		GEAR REDUCTION	MOTOR MOUNT		DRUM OPTION

GH Gearmatic hoist

30 Model series

C Model series related to design changes

FF Equipped with full-release free-fall

SPL Special order

40 Total gear reduction (40:1)

ISO Motor mount

41 Drum option

TO ORDER:

1. List model and serial numbers of the hoist.
2. Refer to cross-section drawing (exploded view), select the component(s) needed, and note item number.
3. Find item number on parts list. Show part number, description, and quantity required on your order.
4. Refer to Parts List and show price for each component or assembly.

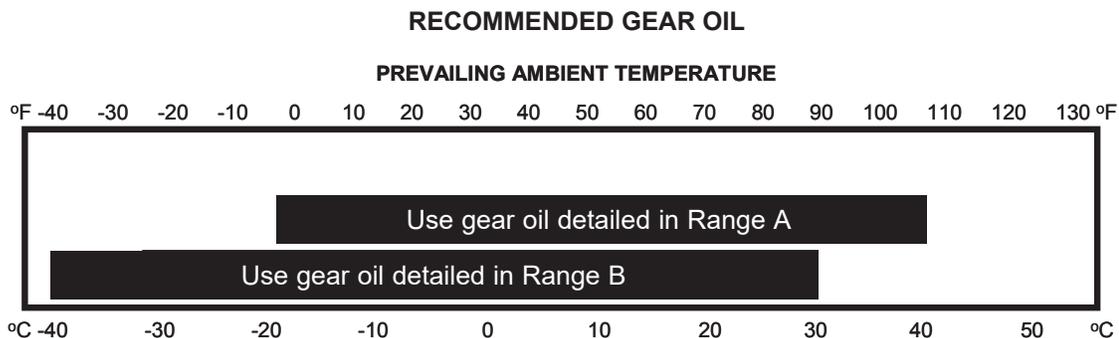
⚠ WARNING ⚠

Failure to use the proper type and viscosity of planetary gear oil may contribute to intermittent brake clutch slippage, which could result in property damage, severe personal injury, or death. Some gear lubricants contain large amounts of extreme-pressure (EP) and antifriction additives, which may contribute to brake clutch slippage or damage to brake friction discs or seals. **NOTE: DO NOT use oil that is labeled as meeting “API Service GL-5.”** Oil viscosity, affected by ambient temperature, is also critical to reliable brake clutch operation. Our tests indicate excessively heavy or thick gear oil may contribute to intermittent brake clutch slippage. Make certain the gear oil viscosity used in your hoist is correct for your prevailing ambient temperature.

RECOMMENDED GEAR OIL

The gear oil should be changed whenever the ambient temperature changes significantly and an oil from a different viscosity range would be more appropriate. Oil viscosity is critical to reliable brake clutch operation. Tests indicate that excessively heavy or thick gear oil may contribute to intermittent brake clutch slippage. Make certain the gear oil viscosity in your hoist is correct for your prevailing ambient temperature.

If the following lubricant brands are not available in your area, make certain your lubricant vendor supplies you with oil equivalent to the products listed below:



RECOMMENDED OIL BRAND		
Range A	Liebherr Hydraulic HVI	ISO VG46
Range B	Liebherr Hydraulic Plus Arctic	ISO VG25

⚠ WARNING ⚠

A warm-up procedure is recommended at each start-up and is essential at ambient temperatures below +40°F (4°C). The prime mover should be run at its lowest recommended RPM with the planetary hoist control valve in neutral position allowing sufficient time to warm up the system. Hoist should then be operated at low speeds. Raise and lower several times to prime all lines with warm hydraulic oil and to circulate gear lubricant through planetary gear sets.

Failure to properly warm up the hoist, particularly under low ambient temperature conditions, may result in temporary brake slippage due to high back pressures attempting to release the brake. This also could result in property damage, severe personal injury, or death.

Oil Change Interval

First Oil Change: 500 hours or one year, whichever comes first.

Subsequent Oil Changes: 2,000 hours or two years, whichever comes first.

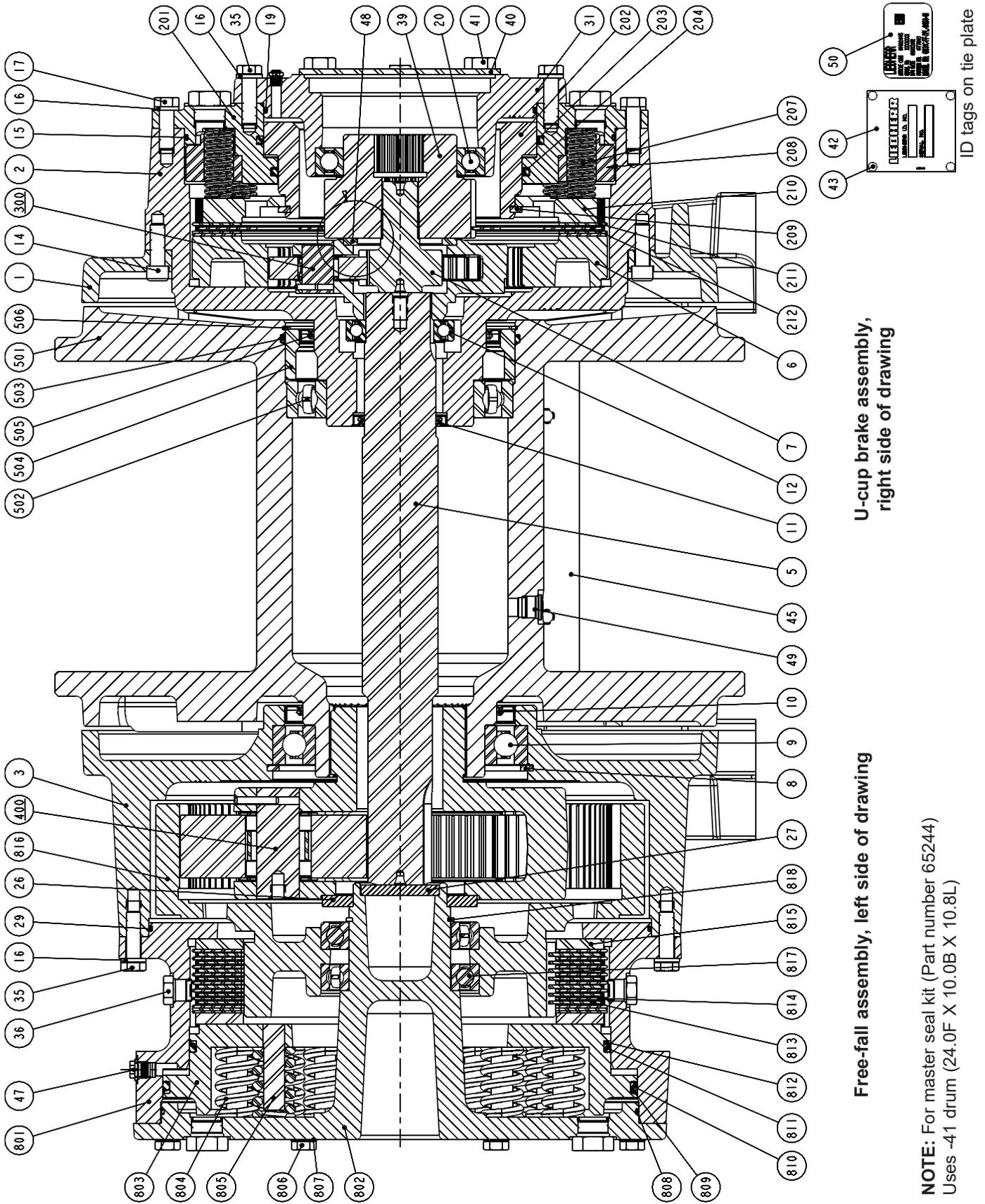
Oil Capacity

Input Section Quantity: 3 U.S. pints (1.4 liters)

Free-fall and Drum Quantity: 19 U.S. pints (9.0 liters). Free-fall section and drum share same oil bath.

GEARMATIC GH30C-FF CROSS-SECTION

Part number 07606



GEARMATIC GH30C-FF COMPONENTS

Part number 07606

ITEM NO.	DESCRIPTION	PART NO.	QTY.
001	End plate	109888	1
002	Housing, primary drive	106770	1
003	End plate	109889	1
005	Sun gear shaft	106837	1
006	Gear, primary ring	106995	1
007	Gear, sun	106840	1
008	Retaining ring, internal	106851	1
009	Ball bearing	104767	1
010	Seal, lip	29061	1
011	Oil seal	108033	1
012	55711 Ball bearing	73490	1
013	16574-0012 Sight gauge	70193	1
014	Capscrew	21908	8
015	O-ring	25016	1
016	Lockwasher	11026	34
017	Capscrew	104322	6
018	16166-12 Plug	70118	3
019	O-ring	72109	1
020	Bearing, ball	105637	1
021	Tie plate	106845	1
022	Sight gauge	26705	1
023	Capscrew	103314	16
024	Hex head plug (-4 SAE)	25663	1
025	Relief valve 7.5-15 PSI	18062	2
026	Washer, thrust	107029	1
027	Button, thrust	106841	1
028	Plug, magnetic	40161	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.
029	O-ring	105895	1
030	O-ring	24193	1
031	Adapter, motor	107005	1
033	Capscrew	104195	2
034	Cable wedge (3/4-1 CH230)	24494	1
035	Capscrew	104323	12
036	16166-8 Plug	70117	2
039	Brake rotor	107031	1
040	Cover, motor plate	101241	1
041	Capscrew	21520	4
042	Nameplate, Liebherr	104364	1
043	16055-5 Drive screw	70053	4
045	Tie plate	107201	1
046	Shipping plug, hydraulic	25403	1
047	Shipping plug	25881	1
048	Thrust washer	103975	1
049	16496-8 Plug, O-ring flush	32411	1
050	Label, data matrix	111618	1
100	Parts group, GH30-FF	83554	1
200	Brake parts group	65238	1
300	Primary planet carrier assembly	83514	1
400	Output planet carrier assembly	83515	1
500	Cable drum assembly	65187	1

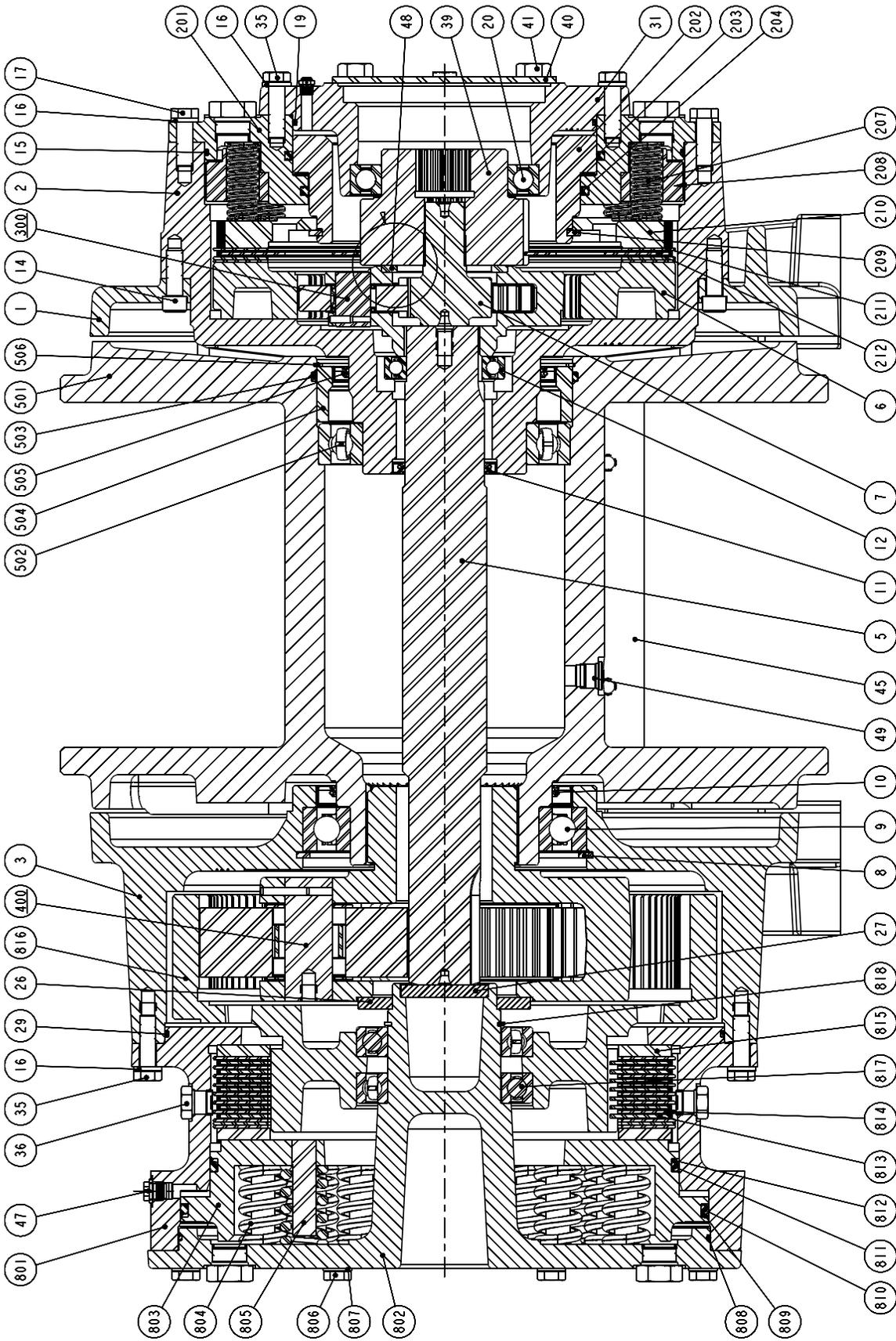
SUBASSEMBLY PART NUMBERS

Part number 07606

ITEM NO.	DESCRIPTION	PART NO.	PAGE NUMBER
200s	Brake parts group	65238	8
300s	Primary planet carrier assembly	83514	9
400s	Output planet carrier assembly	83515	9
500s	Cable drum assembly	65187	10
800s	GH30-FF parts group	83554	11

GEARMATIC GH30C-FF STANDARD OUTPUT GEAR HOUSING

Part number 07606



U-cup brake assembly, right side of drawing

Free-fall assembly, left side of drawing

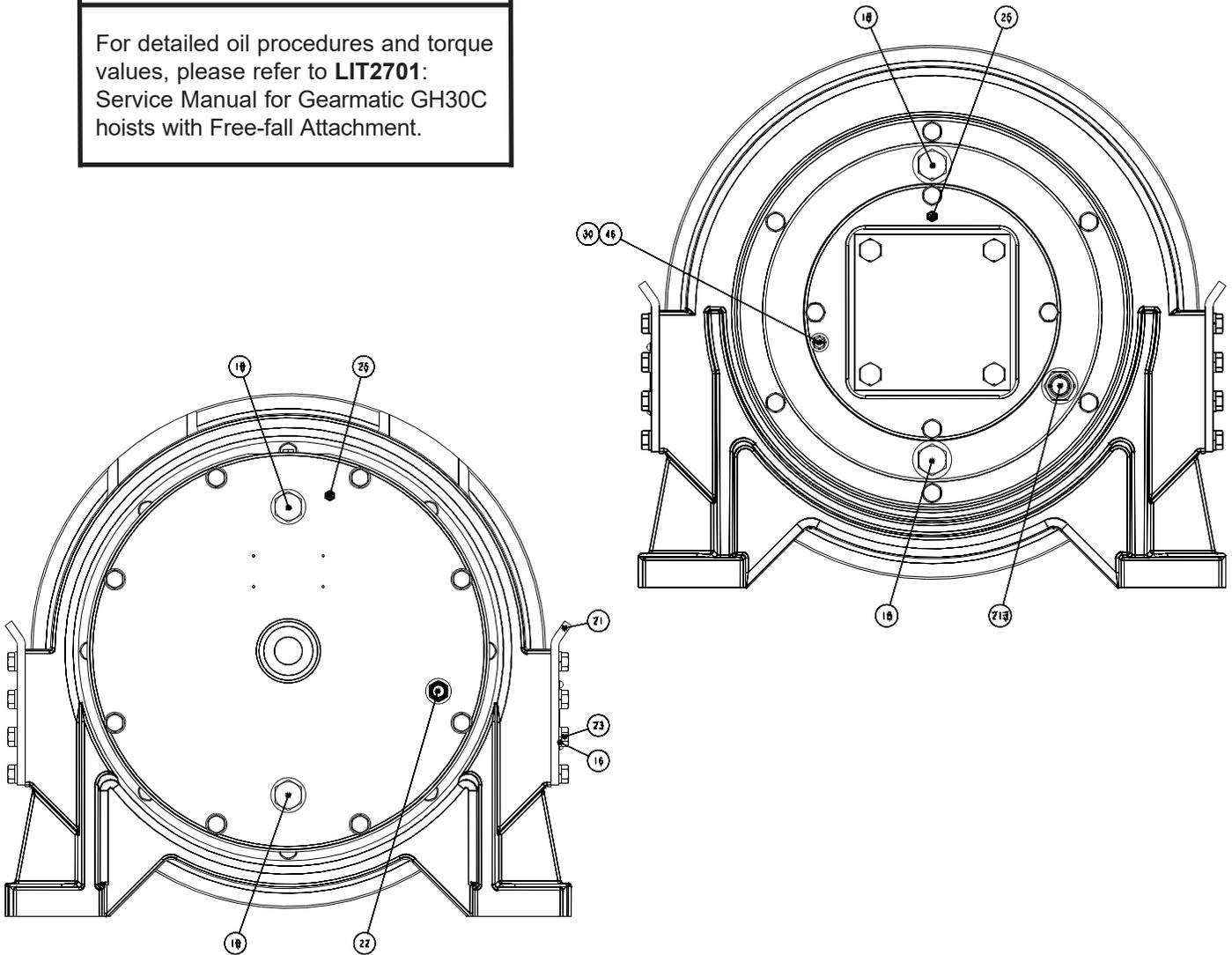
NOTE: For master seal kit (Part number 65244)
Uses -41 drum (24.0F X 10.0B X 10.8L)

GEARMATIC GH30C-FF CROSS-SECTION

Part number 07606

ADDITIONAL REFERENCE PUBLICATION

For detailed oil procedures and torque values, please refer to **LIT2701**: Service Manual for Gearmatic GH30C hoists with Free-fall Attachment.



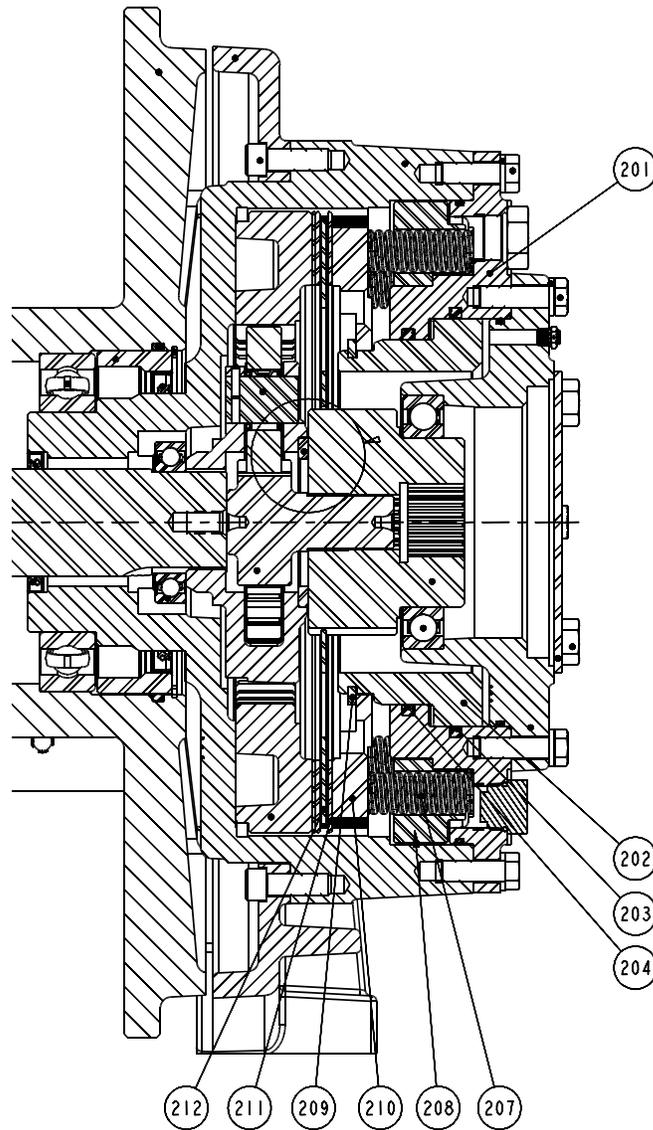
NOTES:

Master seal kit 65244 uses -41 drum (24.0F X 10.0B X 10.8L)

Torque capscrews (Items 17, 23, 35, 806) to 110 +/-10 ft. lbs.

GH30 BRAKE PARTS GROUP

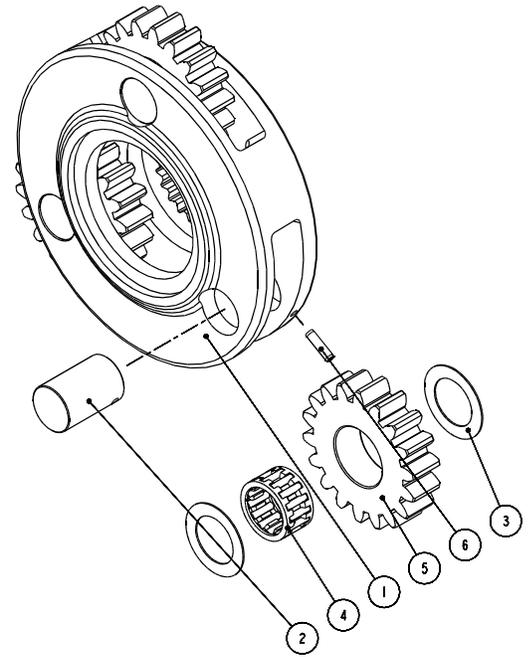
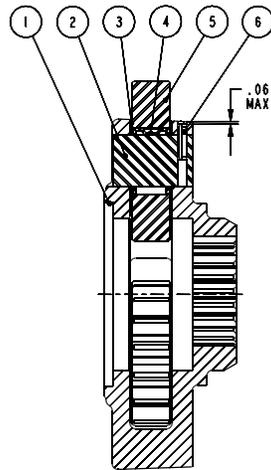
Part number 65238



ITEM NO.	DESCRIPTION	PART NO.	QTY.
201	Cylinder, brake	111508	1
202	Piston, brake	111509	1
203	U-cup seal, 9.50 X 10.00 X .25	111515	1
204	U-cup seal, 8.50 X 9.00 X .25	111506	1
207	Spring, die	104385	12
208	Spring separator	110099	1
209	Retaining ring, external	106852	1
210	Pressure plate	106994	1
211	50497 Divider plate	72204	3
212	Brake plate	100024	1

GH30 PRIMARY PLANET CARRIER ASSEMBLY

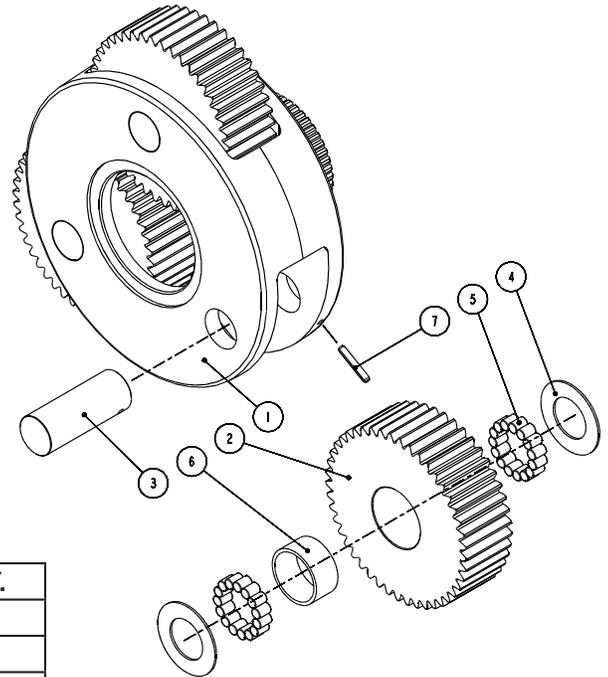
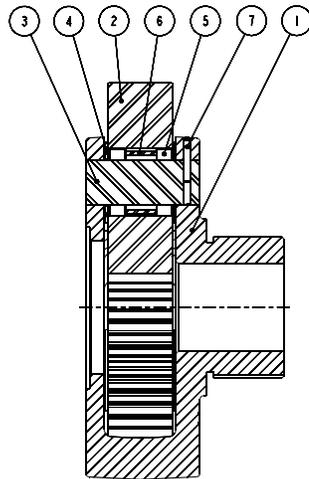
Part number 83514



ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Carrier, primary planet	106793	1
2	Primary planet gear shaft	26294	3
3	Thrust bearing	24479	6
4	Roller bearing	24480	3
5	Primary planet gear	40021	3
6	Spirol pin	24113	3

GH30 OUTPUT PLANET CARRIER ASSEMBLY

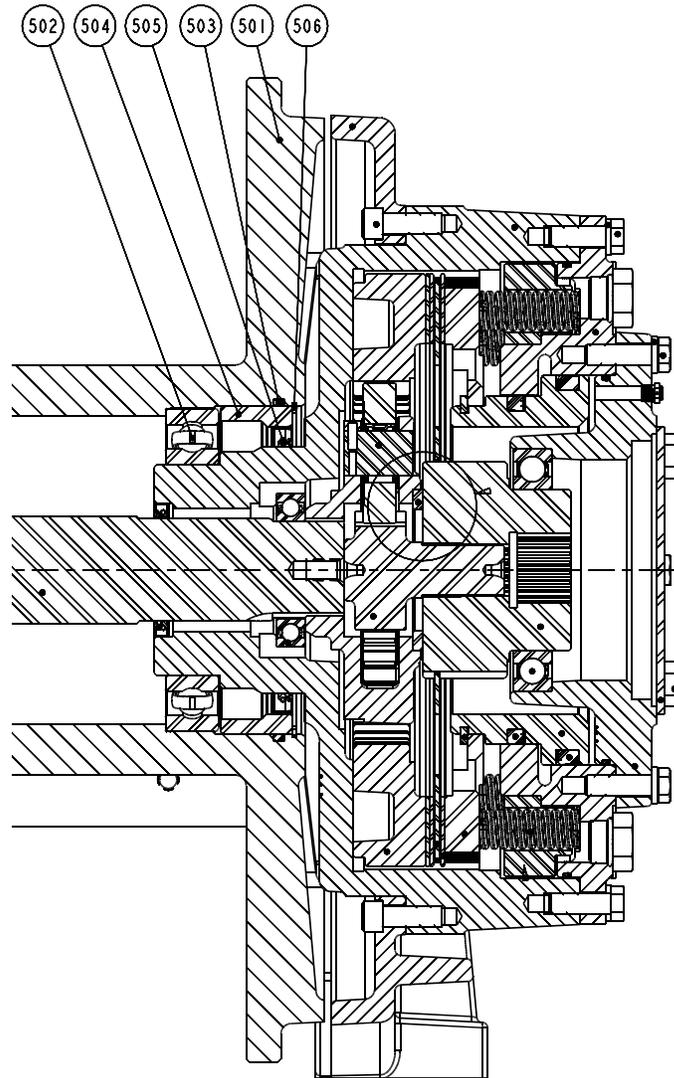
Part number 83515



ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Carrier, output planet	106746	1
2	Gear, planet	106838	3
3	Shaft, planet	106842	3
4	Washer, thrust	102324	6
5	Bearing, roller	102325	90
6	Spacer, bearing	106850	3
7	Roll pin	18055	3

GH30 CABLE DRUM ASSEMBLY

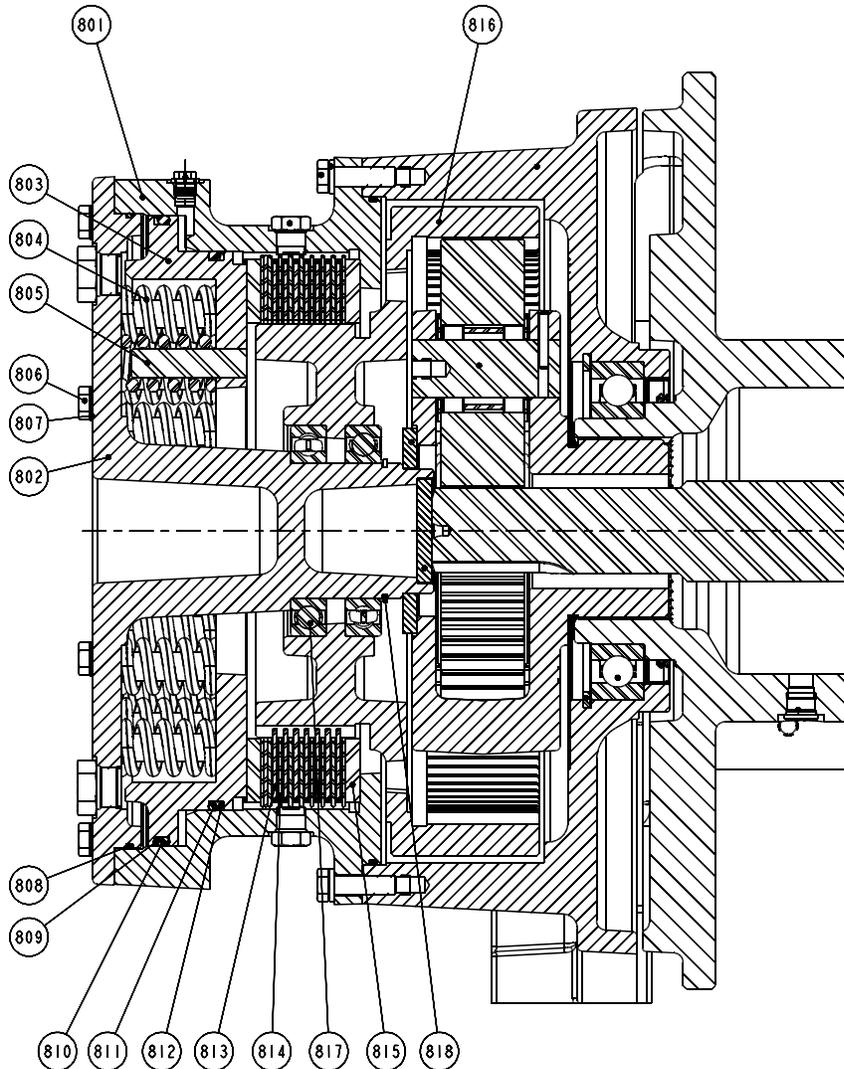
Part number 65187



ITEM NO.	DESCRIPTION	PART NO.	QTY.
501	Drum, GH30B-41	111313	1
502	Ball bearing	24487	1
503	O-ring	106853	1
504	Carrier, seal	111241	1
505	Seal 6.00 7.00 .50 (replaces 28994)	111764	1
506	Ring, internal retaining	111242	1

GEARMATIC GH30-FF PARTS GROUP

Part number 83554



ITEM NO.	DESCRIPTION	PART NO.	QTY.
801	Housing, free-fall	107018	1
802	Bearing support	107024	1
803	Piston	29754	1
804	Spring	108293	25
805	Pin	29863	25
806	Capscrew	104323	8
807	Lockwasher	11026	8
808	O-ring	72113	1
809	Back-up, O-ring	29858	1
810	O-ring	29856	1
811	O-ring	26459	1
812	Back-up, O-ring	29857	1
813	Friction disc	106843	7
814	50497 Divider plate	72204	10
815	Spacer	29757	2
816	Gear free-fall ring	107030	1
817	15094 Bearing, ball	30871	2
818	Retaining ring, external	107034	1

