



NOTE:

- 1 Install with Loctite 242 (Blue) Medium Strength Thread Locker or equivalent
- 2 Torque to 35 IN-LBF
- 3 Torque to 48 IN-LBF
- 4 Torque to 97 IN-LBF
- 5 Tap Ends 5/16-18 X 1 Deep
- 6 Grease all gears, bearings and drum journals with Aeroshell 33 MS Grease

Parts List Selection Based On Gear Ratio			
Item	Gear Ratio	Part Number	Description
19	113:1	03-28432	Assembly, Carrier (6.0:1)
19	156:1	03-28432	Assembly, Carrier (6.0:1)
19	216:1	03-28432	Assembly, Carrier (6.0:1)
19	261:1	03-25625	Assembly, Carrier (7.25:1)
20	113:1	03-34342	Assembly, Carrier (4.33:1)
20	156:1	03-34342	Assembly, Carrier (4.33:1)
20	216:1	03-28431	Assembly, Carrier (6.0:1)
20	261:1	03-28433	Assembly, Carrier (6.0:1)
21	113:1	03-27846	Assembly, Carrier (4.33:1)
21	156:1	03-34339	Assembly, Carrier (6.0:1)
21	216:1	03-28430	Assembly, Carrier (6.0:1)
21	261:1	03-28430	Assembly, Carrier (6.0:1)
22	113:1	03-14227	Sun Gear, 18T
22	156:1	03-13874	Sun Gear, 12T
22	216:1	03-13874	Sun Gear, 12T
22	261:1	03-13874	Sun Gear, 12T

Parts List			
Item	Quantity	Part Number	Description
1	1		Brakemotor, 48CZ, Per Customer Specifications
2	1	2A16154R0	Label, Columbia Unit
3	1	03-31610	Drum Support, Motor End, XD
5	1	2A10215R1	Coupler, 48CZ to 5/16 Hex
6	1	See Chart	Hex Shaft, 5/16, 12L14
7	1	See Chart	Drum, XD
8	2	See Chart	Tie Rod, XD
9	4	09F868151-1	FHHCS, 5/16-18X1, PLTD
10	1	03-25986	Drum Support, Gear End, XD
11	2	03-13831	Bearing, Drum Support, XD
12	2	03-13848	Gasket, XD
13	1	03-31268	Input Ring Gear, XD
14	1	03-28353	Output Ring Gear, XD
15	1	03-27337	Housing Assembly, XD
16	1	03-13872	Detent Screw, XD
17	1	03-21213	Freespool Blockout, XD
18	1	03-14584	Planetary Coupler with Snap Ring, XD
19	1	See Chart	Carrier Assembly
20	1	See Chart	Carrier Assembly
21	1	See Chart	Carrier Assembly
22	1	See Chart	Sun Gear
23	1	03-13826	Thrust Washer, Ring Housing, XD
24	10		SHCS, #10-24X2-1/4, PLTD
25	4		SHCS, 1/4-20X1, PLTD
27	1	2A14472R0	Decal, 3", Columbia Winches & Hoists

Parts List Selection Based On Drum Size				
Item	Drum Size	Quantity	Part Number	Description
6	-11/-15	1	2A15298R0	Hex Shaft, 5/16X8.325", 12L14
6	-01	1	2A15297R0	Hex Shaft, 5/16X10.325", 12L14
6	-02	1	2A13893R0	Hex Shaft, 5/16X14.325", 12L14
7	-15	1	2A6619R3	Drum, XD-15
7	-11	1	03-39821	Drum, XD-11
7	-01	1	2A12225R4	Drum, XD-01
7	-02	1	2A14259R1	Drum, XD-02
8	-11/-15	2	03-34478	Tie Rod, XD-11
8	-01	2	03-32454	Tie Rod, XD-01
8	-02	2	03-32408	Tie Rod, XD-02
28	-15	3	97654A262	FBHCS, 1/4-20X1/2, SS