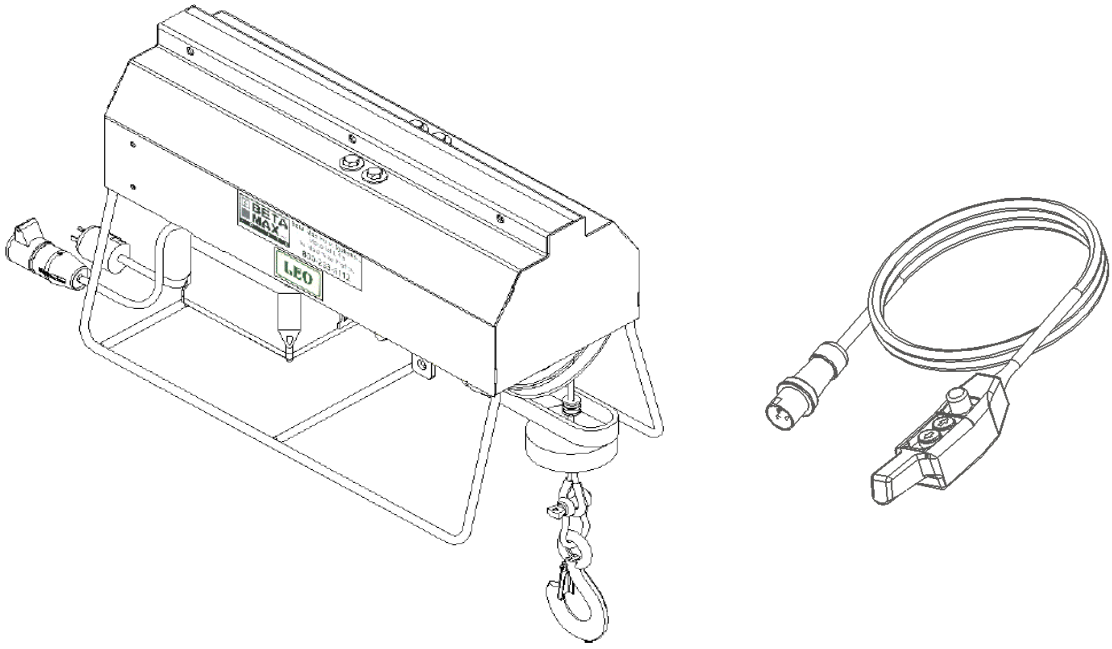
Original Instructions

PORTABLE WIRE ROPE HOIST

BETA MAX

Leo 220 1-Phase



PARTS MANUAL

Rev. 1.5 - 2026

1895 Robert J. Conlan Blvd
Palm Bay, FL 32905
P: 800.233.5112 --- F: 321.768.9517
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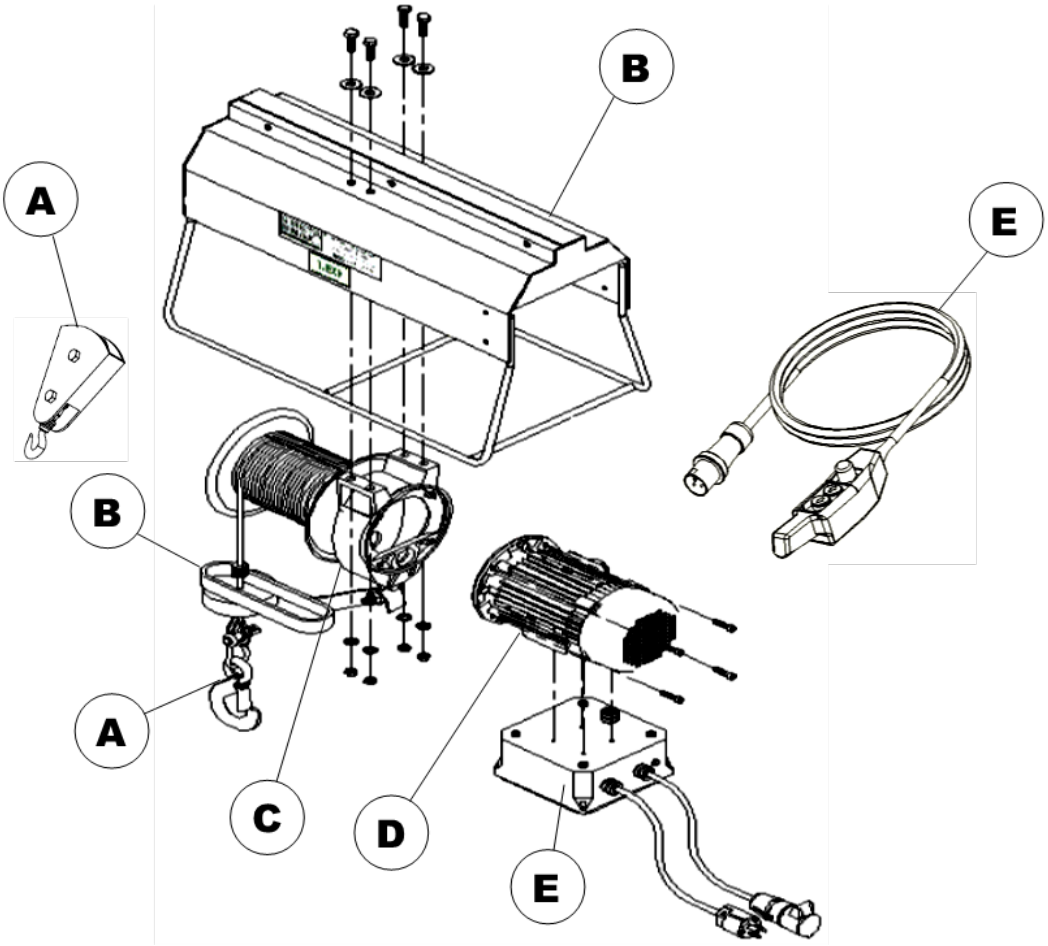
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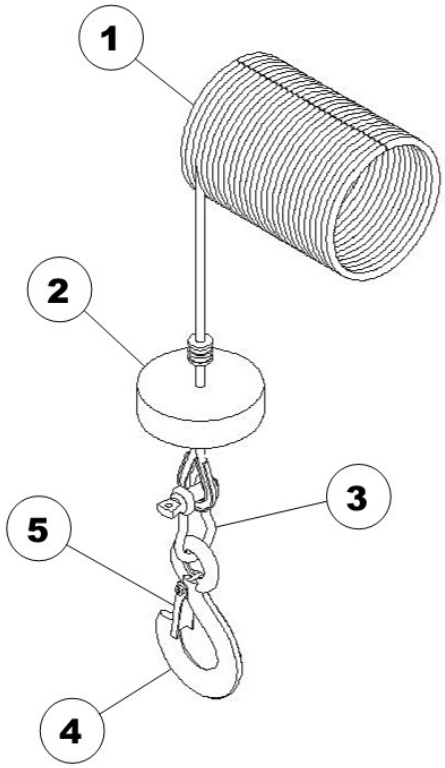
Sections Exploded View



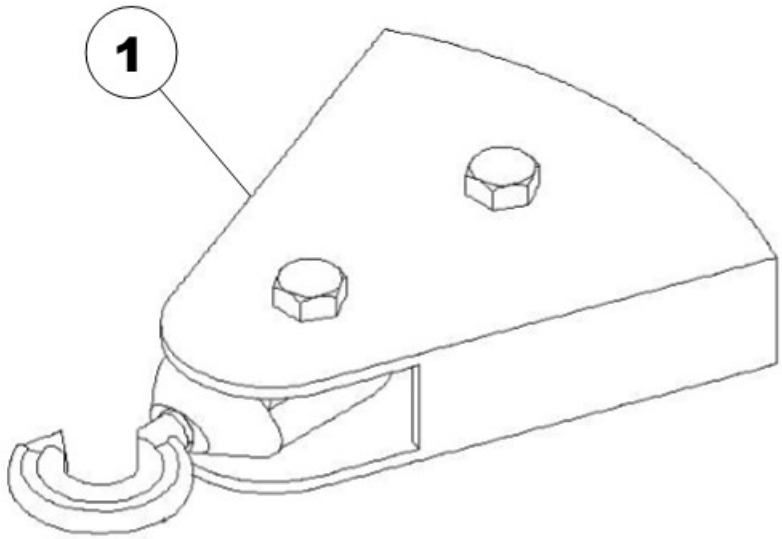
Section	Description	Page
A	Wire Rope	1
B	Shroud Structure & Up Limit Bar	3
C	Transmission & Drum	5
D	Motor & Brake	9
E	Electrical Control System	13
F	Mounting Options	18

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Section A – Wire Rope

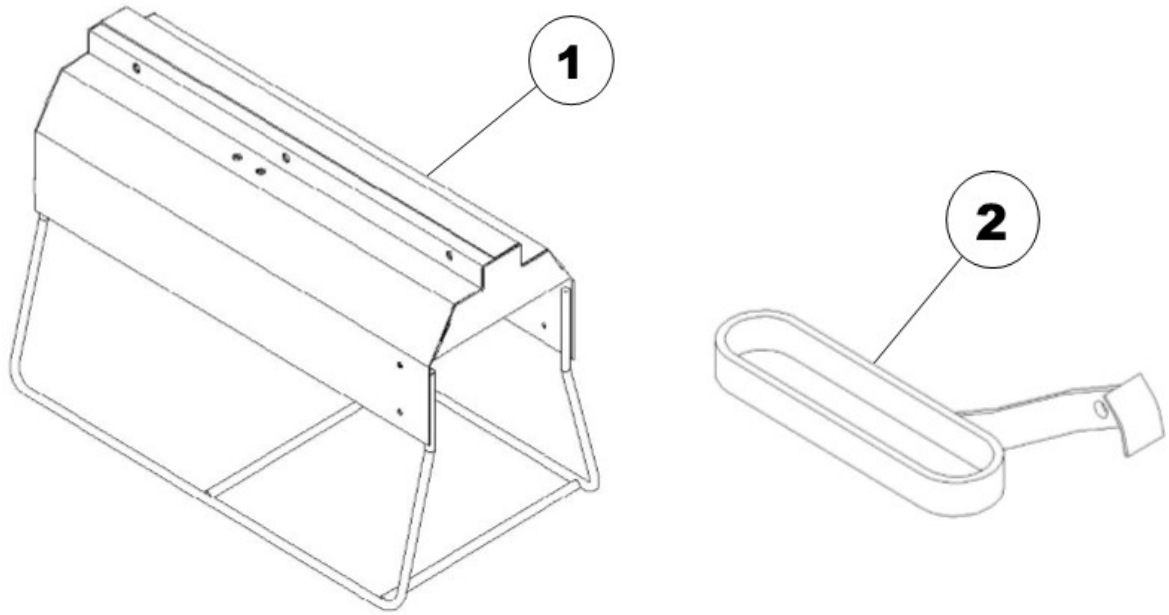


Item	Part Number	Description	Notes
1	40-51	Kit, Wire Rope ¼" NR 235'	Includes items 2 thru 4
2	20-2	Cable Weight, 4 ½" 5Lbs	----
3	00000000000553	Shackle, SPA GALV ½"	----
4	00000000001631	Hook, 2 Ton Swivel w/Latch	Includes item 5
5	00000000002313	Safety Latch	----



Item	Part Number	Description	Notes
1	70-2	Double Rope Kit, 2000Lbs	Includes Item 2 & 3
2	20-144	Decal, Warning DBLE Rope Pulley	----
3	20-177	Decal, Weight Capacity 2000Lbs	----

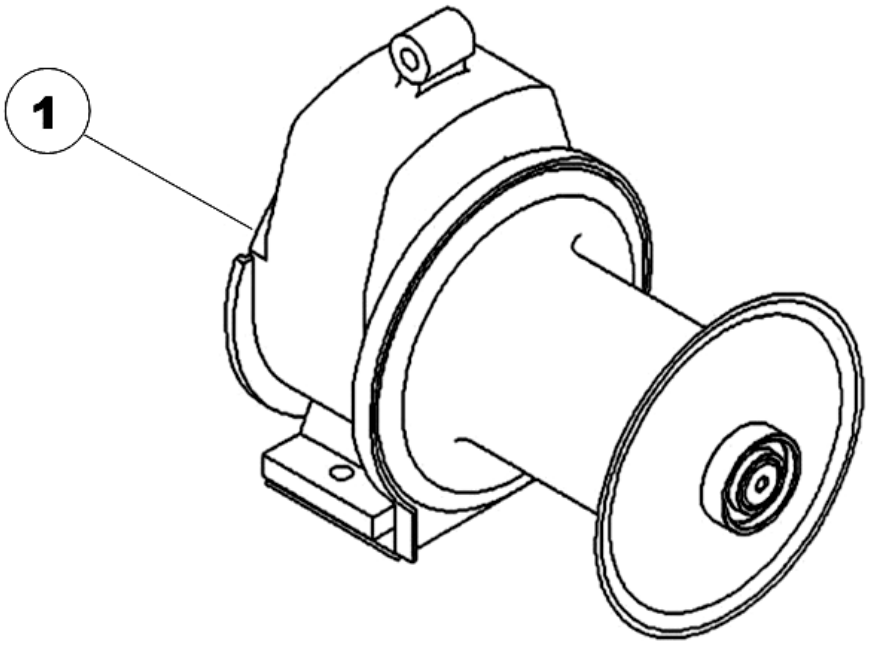
Section B – Shroud Structure & Up Limit Bar



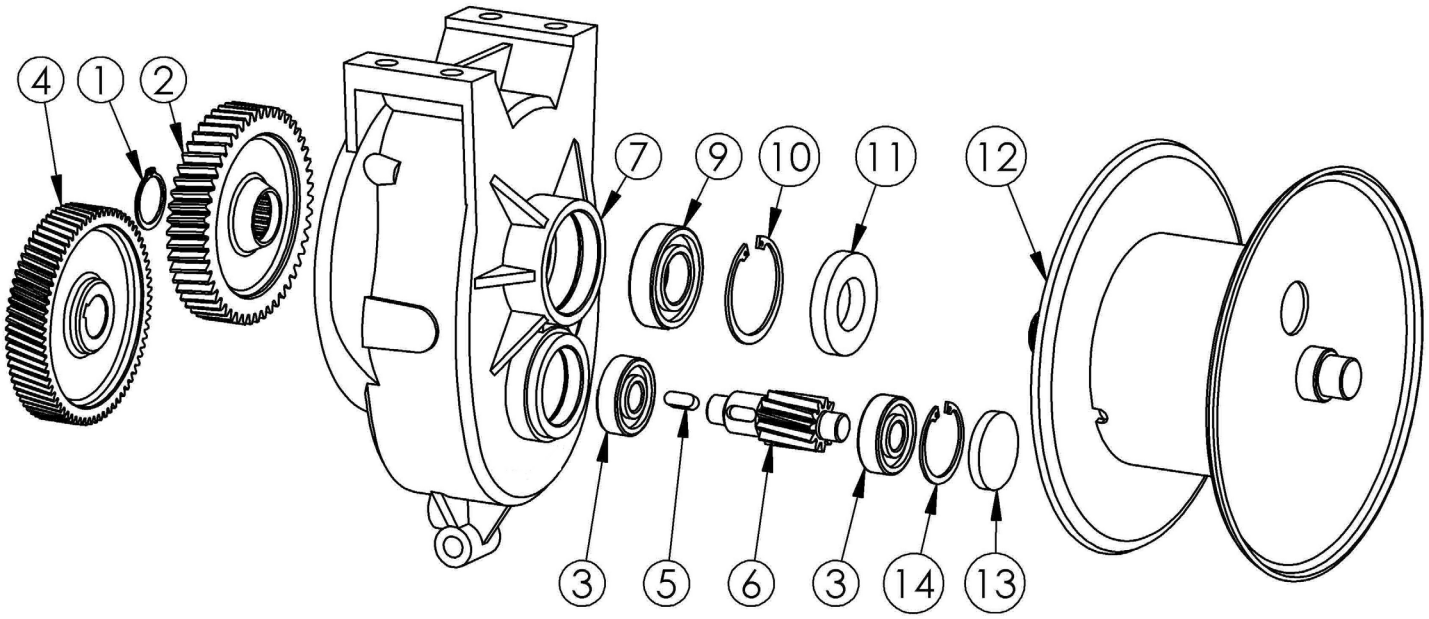
Item	Part Number	Description	Notes
1	40-18	Shroud, Standard Complete	----
2	30-56	Up Limit Bar, 11” x 2 7/8”	----
3	30-125	Decal Kit, LEO	Not Shown

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Section C – Transmission & Drum



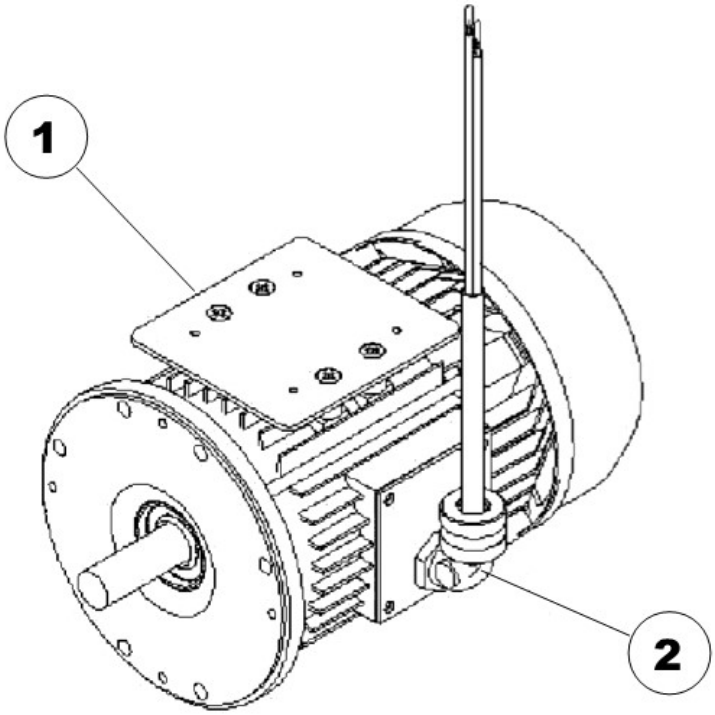
Item	Part Number	Description	Notes
1	20-154	Trans/Drum Assy, M290/M500	Includes item 1-15 on pages 6 to 7


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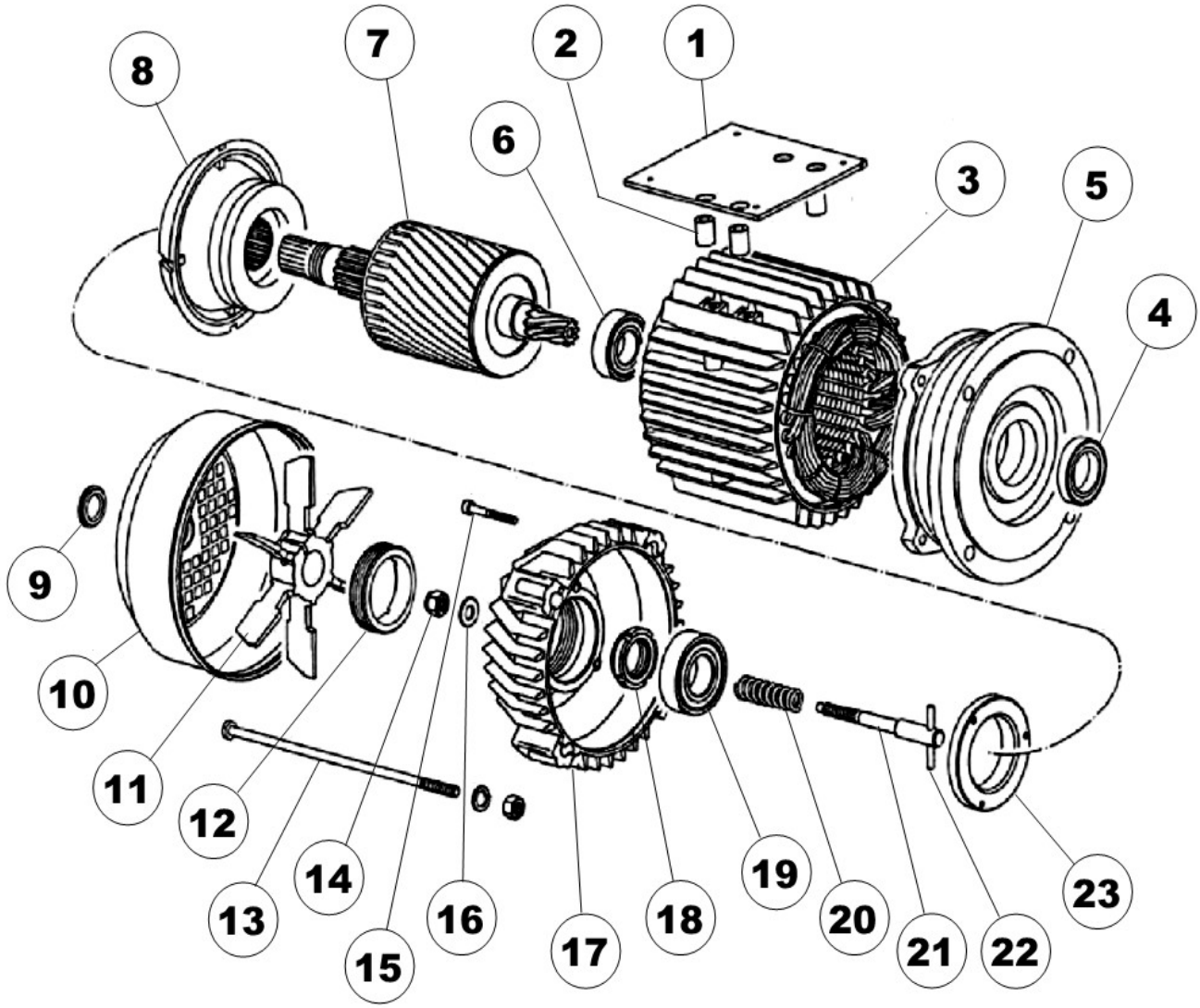
Item	Part Number	Description	Notes
1	10-196	Retaining Ring, M290	----
2	00000000001801	Gear, Drum M290/M500/T500	----
3	10-197	Bearing, 6306-2ZR-C3	----
4	10-94	Gear, Intermediate M290/M500	----
5	----	Key	Not Sold Separately (BZ1802)
6	00000000001802	Gear, Inter Shaft M290/M500/T500	Includes item 5
7	----	Housing	Not Sold Separately (20-154)
8	10-188	Spacer, M200/M290/M500	----
9	10-180	Bearing, 6206Z	----
10	10-181	Retaining Ring, M290/M500	----
11	10-182	Seal, 32-62-10	----
12	10-146	Drum, M290	----
13	10-192	Seal, D7194 47x7	----
14	10-193	Retaining Ring, M290/M500	----
15	00000000000523	Bearing, 6204-LLU-C3	Not Shown

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Section D – Motor & Brake



Item	Part Number	Description	Notes
1	30-871	Motor/Brake M500	Includes item 2 and items 1-23 on pages 10 to 11
2	30-489	Motor Connector, Leo 1PH	----

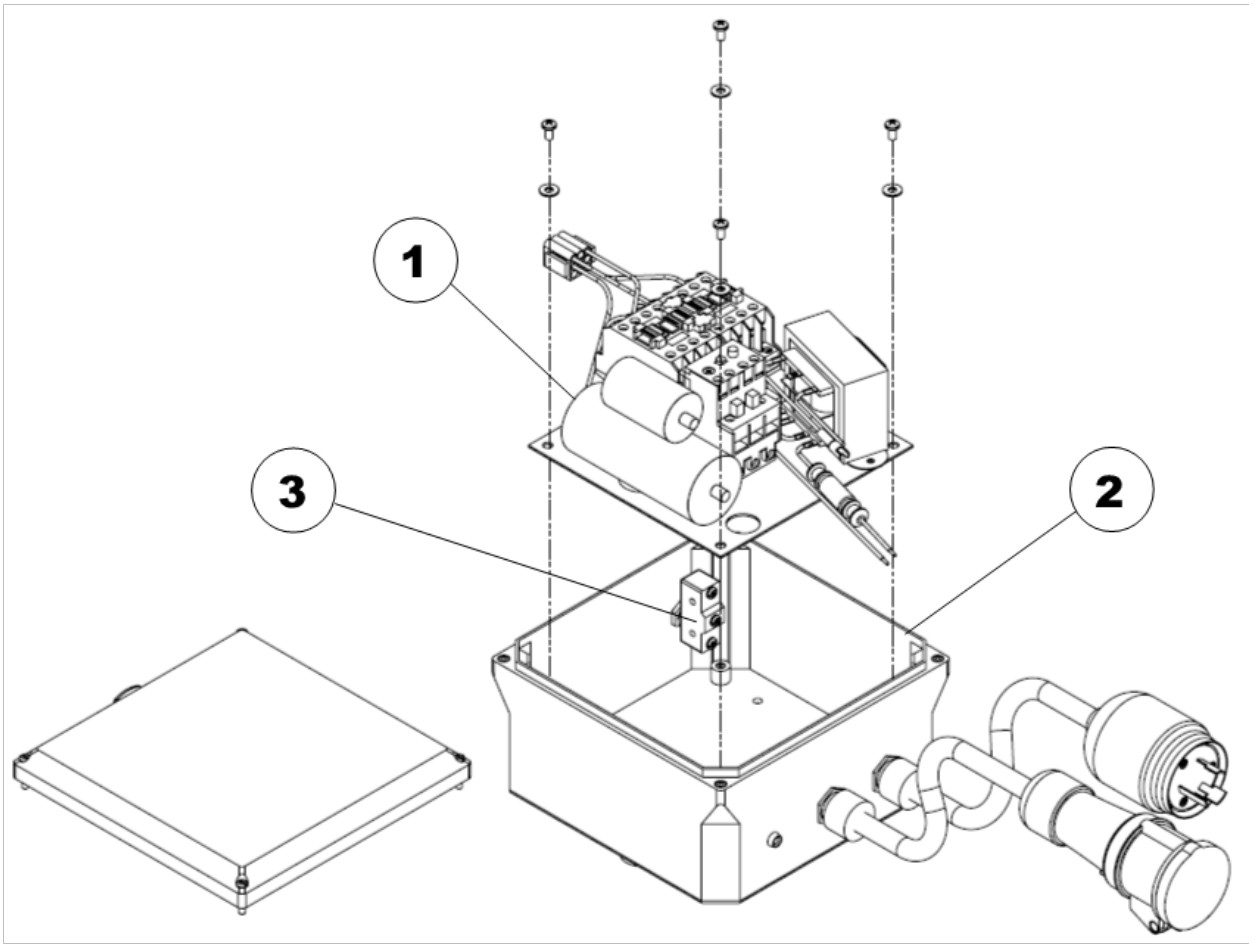


Item	Part Number	Description	Notes
1	00000000002424	Plate	----
2	00000000002525	Spacer	----
3	10-124A	Stator, M500	----
4	00000000000808	Seal, 25-52-7	----

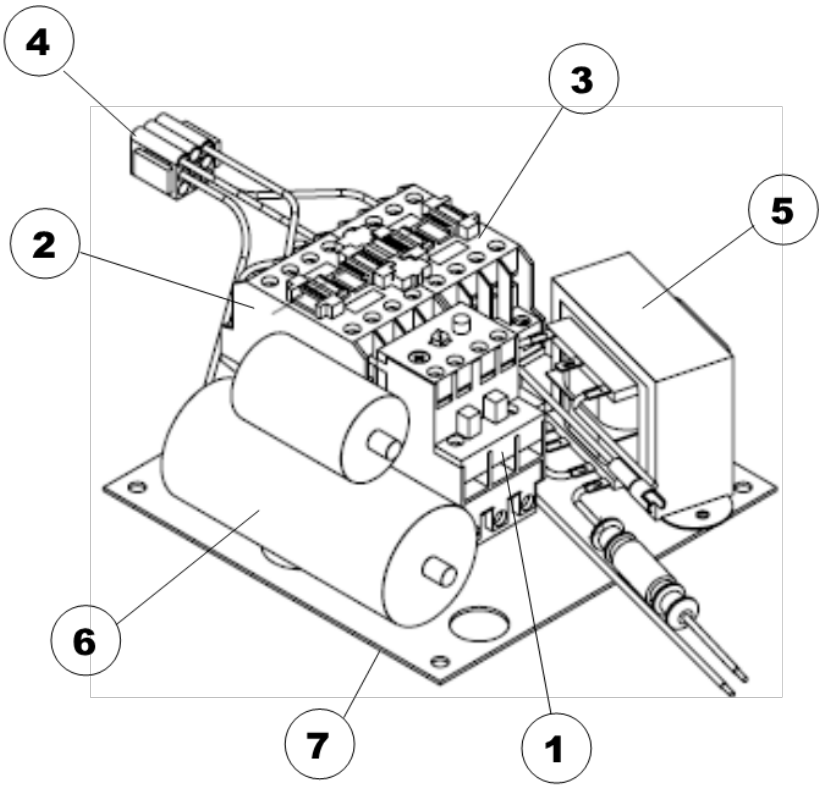
Item	Part Number	Description	Notes
5	10-51	Front Flange	----
6	00000000000523	Bearing, 6205-2RS-C3	----
7	10-124-1	Rotor/Brake M500	Includes items 6, 8, 12, & 14-23
8	20-55	Brake Block, M290/M500	----
9	20-57	Plug, Fan Cover	----
10	20-56	Cover, Brake/Fan M290/M500/T500	----
11	20-58	Fan, M290/M500/T500	----
12	10-49	Ring, Adjuster M290/M500/T500	----
13	10-198	Tie Rod, M500	----
14	00000000002034	Nut, Locking LH M8	----
15	00000000000008	Bolt, Socket Head M5x40	----
16	00000000002196	Washer, Flat M8	----
17	10-55	End Cap, Motor M290/M500/T500	----
18	10-53	Ring, Self-Locking M290/M500/T500	----
19	10-180	Bearing, 6206-C2R-C3	----
20	10-152	Spring, Brake M290/M500/T500	----
21	20-86	Brake Tension Kit, M290/M500	Includes items 14, 16, 20, &22
22	----	T-Rod	Not Sold Separately (20-86)
23	10-54	Ring, Air Gap Adjust M290/M500/T500	----

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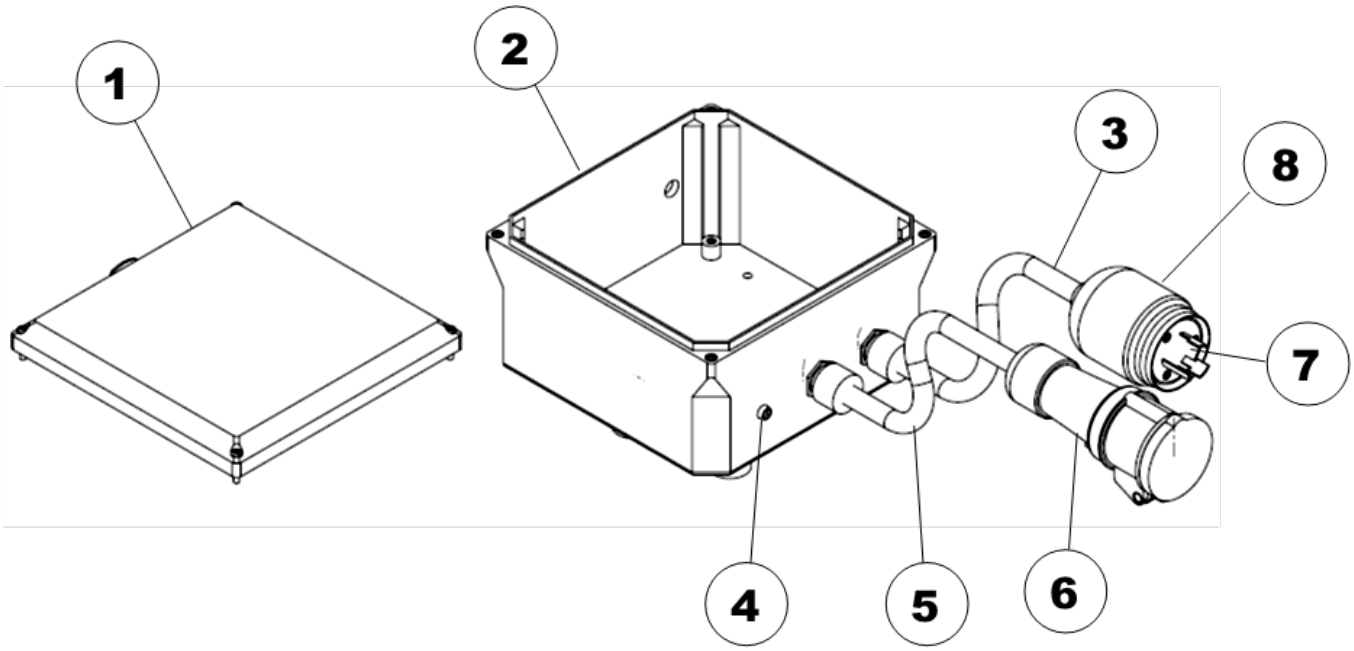
Section E – Electrical Control System



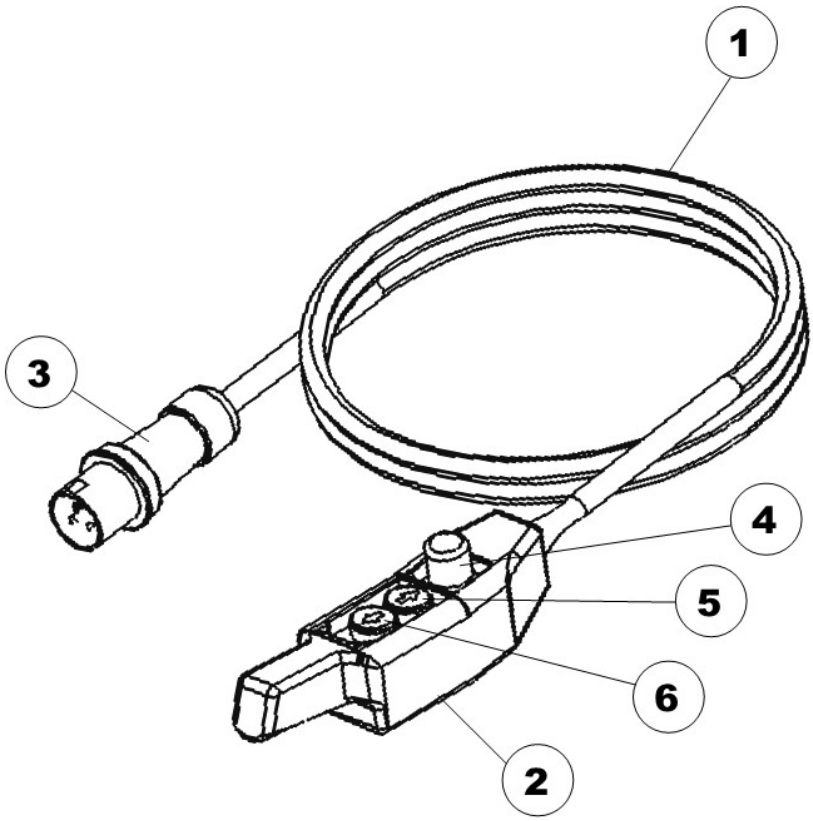
Item	Part Number	Description	Notes
1	30-50	Plate, Bae Assy LEO 1PH	Includes Items 1-5 & 7-9 on Page 14
2	30-37	Enclosure, Assy LEO 1PH	Includes Items 2-8 on Page 15
3	00000000000073	Limit Switch, Roller Plunger	----
4	30-125	Decal Kit, LEO 1PH	----



Item	Part Number	Description	Notes
1	00000000001483	Overload 9-14A	****Previous Overload was discontinued in 2009, any units older than 2009 will need to purchase New Overload plus Items 2, 3, 7, & 8****
2	00000000001480	Contactor, 25A 3NO/1NC	****Previous Contactors were discontinued in 2009, any units older than 2009 will need to purchase both the UP and DOWN Contactor plus Items 1, 7, & 8 ****
3	00000000001479	Contactor, 30A 3NO/1NC	
4	40-15	Harness, Motor Connector	----
5	30-134	Transformer Assy, M500 220V	----
6	30-173	Capacitor Assembly	----
7	----	Base Plate	Not Sold Separately (30-50)
8	40-23	Din Rail, Portable Hoist	Not Shown
9	00000000001481	Interlock, Mechanical FRT MT	Not Shown



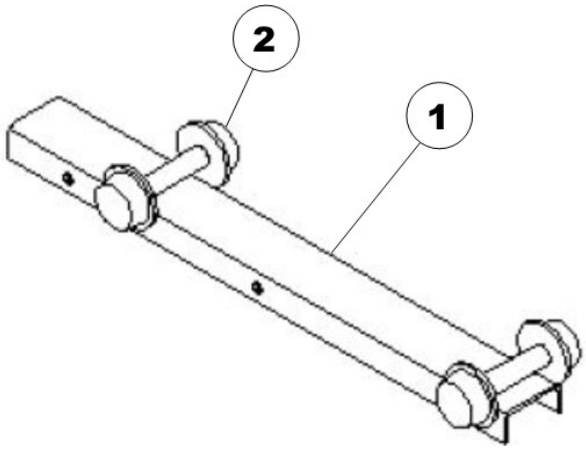
Item	Part Number	Description	Notes
1	00000000000070	Enclosure, Lid 8x8	----
2	30-37-1	Enclosure, Pre-drilled LEO 1PH	“Pre-drilled”
3	30-8	Cord, Power Assy 220V/20A TWL	Includes Items 7 & 8
4	40-5	LED, Indicator Assy	----
5	40-6	Cord, Portables Pendant Assy	Includes Item 6
6	00000000000035	Connector, Female Blue	----
7	00000000000076	Plug, Male 250V/20A TWL	----
8	00000000001888	Plug Cover, Hubbell 110/220	----
9	30-125	Decal Kit, LEO 1PH	Not Shown

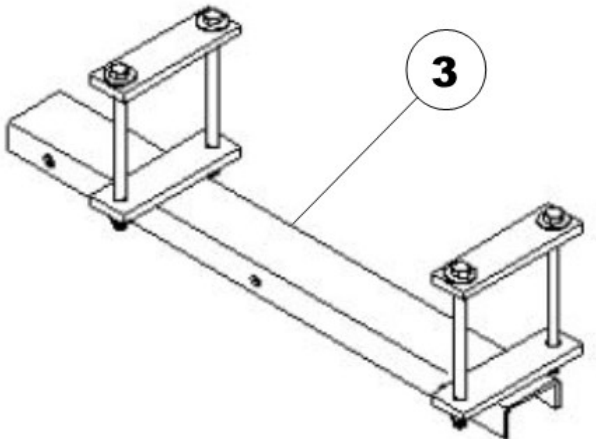


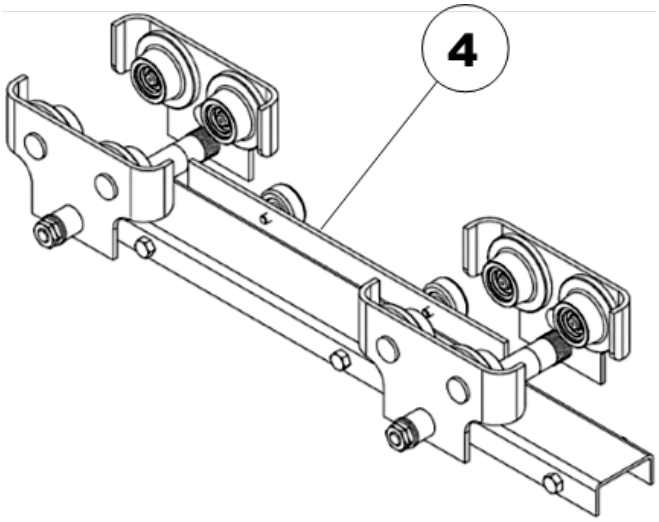
Item	Part Number	Description	Notes
1	50-9-1	Pendant, Portables Discrete	Includes Item 2-9
2	00000000001711	Housing, Pendant Portables	Includes items 4-8
3	00000000000034	Plug, Male Pendant	----
4	00000000001025	Button, E-stop Pendant	----
5	00000000002156	Button, Up Pendant Portables	White Button Face w/Boot
6	00000000002157	Button, Down Pendant Portables	Black Button Face w/Boot
7	10-219	Contact Block, NC Red	Not Shown Sold Separately (3 Required)
8	10-678	Contact Block, NO Green	Not Shown Sold Separately (2 Required)
9	10-712	Decal Kit, Pendant	Not Shown

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Section F – Mounting Options







Item	Part Number	Description	Notes
1	50-7	Roller Top, Assembly STD	Includes item 2
2	20-71	Roller, M80	Sold Separately (4 Required)
3	60-8	I-beam Fixed Top Bracket	----
4	60-25	Trolley, 1 Ton w/Guide	----