



Original Instructions

BETA MAX

Maxial Track Hoist



PARTS MANUAL

Rev. 2.0 - 2021

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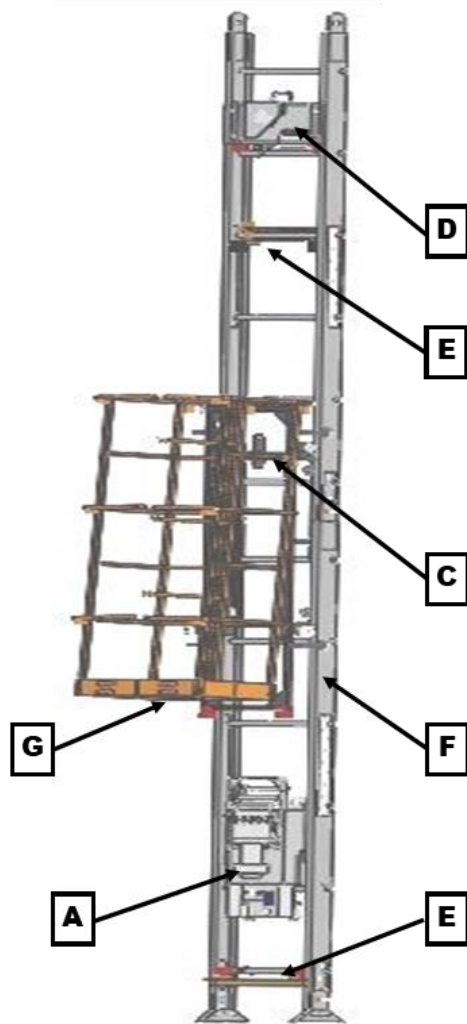
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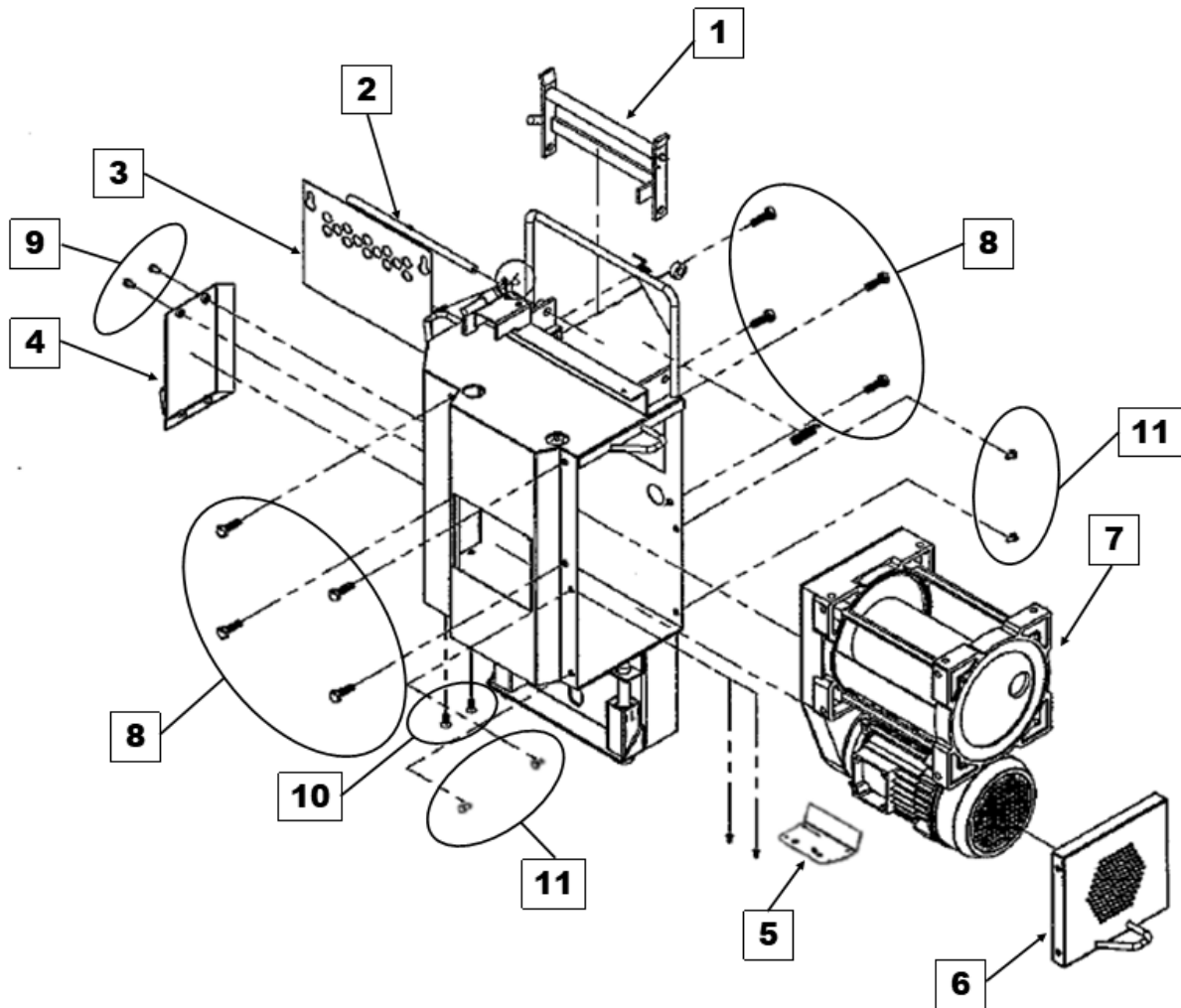
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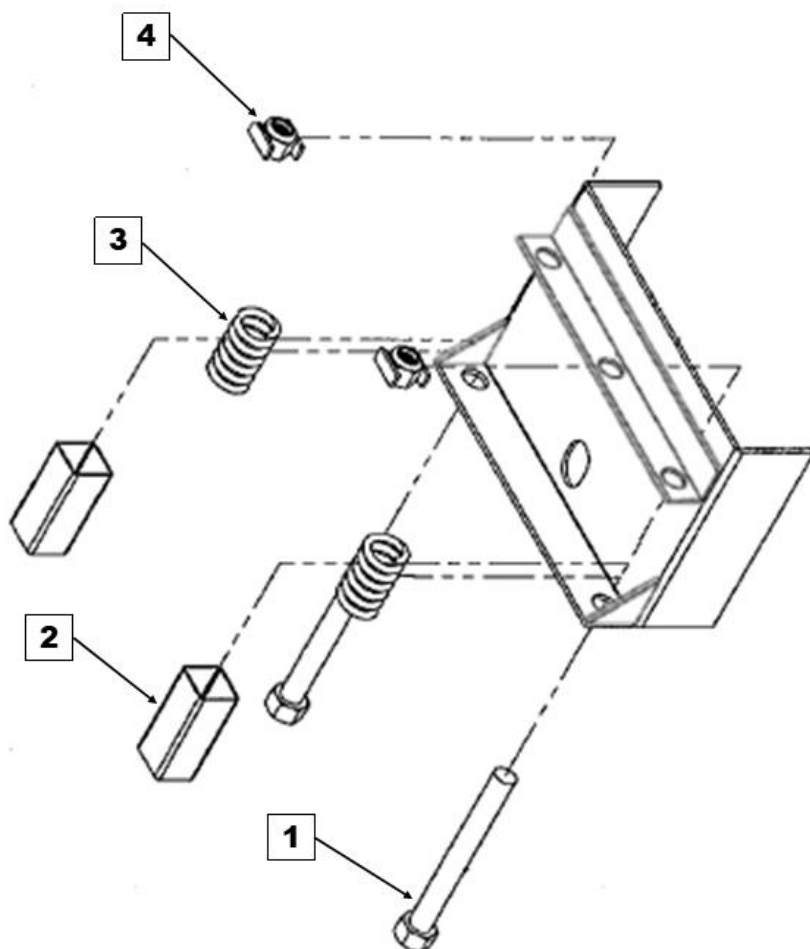
Item	Description	Page Number	Notes
A	Motor Pack	1	---
B	Electrical Control System	13	Not Shown
C	Lifting Unit (Carriage)	23	---
D	Sliding Head	25	---
E	Terminal Stops	27	---
F	Track Components	29	---
G	Loading Units	35	Not Shown

Section A – Motor Pack- 80-49



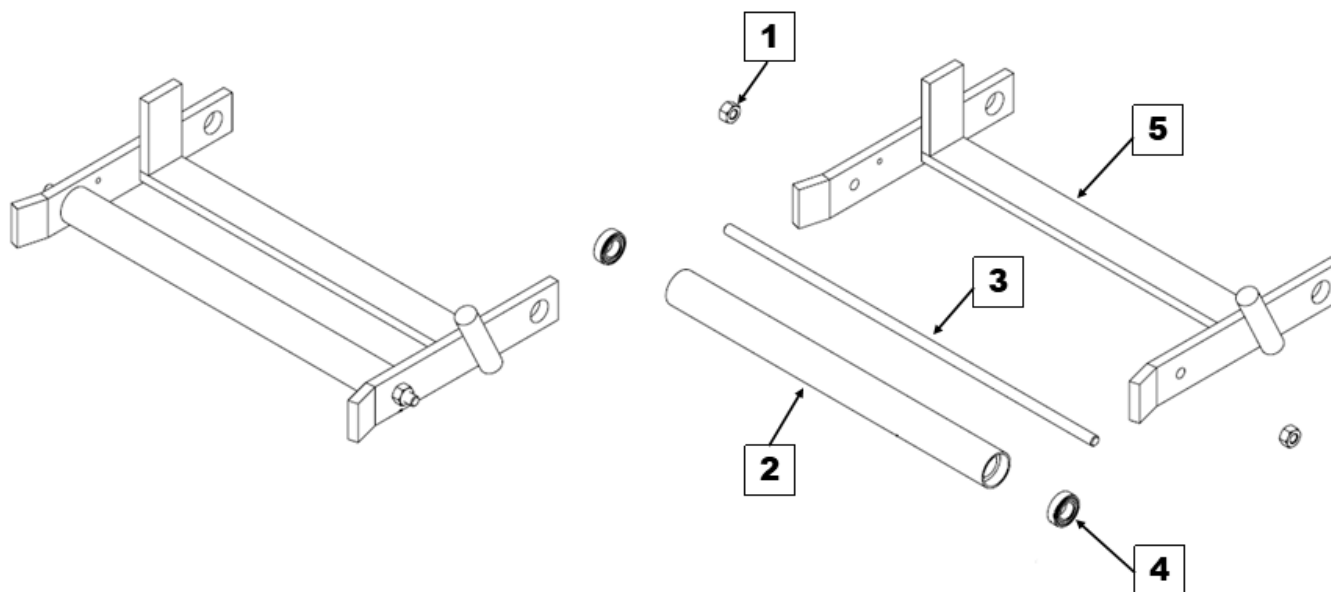
Item	Part Number	Description	Notes
--	30-67-1	Shroud Assembly, Motor Ready	All items except 5 & 7
1	30-63	Slack Rope Frame Assembly	See Page
2	10-84-13	Pin, Slack Rope Frame	----
3	80-20-1	Wire Rope Guard	----
4	10-84-61	Shroud, Split MOT CVR/VT	----
5	10-111D	Support Plate, MTR Plug	----
6	10-84-71	Shroud, Split Brake CVR	----
7	30-69-1	Motor/Trans Assembly, 110VAC	See Page
7	30-69-4	Motor/Trans Assembly, 208VAC	See Page
8	000000000000059	Bolt, Hex HD M10x1.5x35	----
9	000000000001823	Bolt, Philips Flat-Head 5/16-18x3/4"	----
10	000000000000742	Bolt, Hex HD 5/16-18x3/4"	----
11	000000000000742	Bolt, Hex HD 5/16-18x3/4"	----

Overload Components



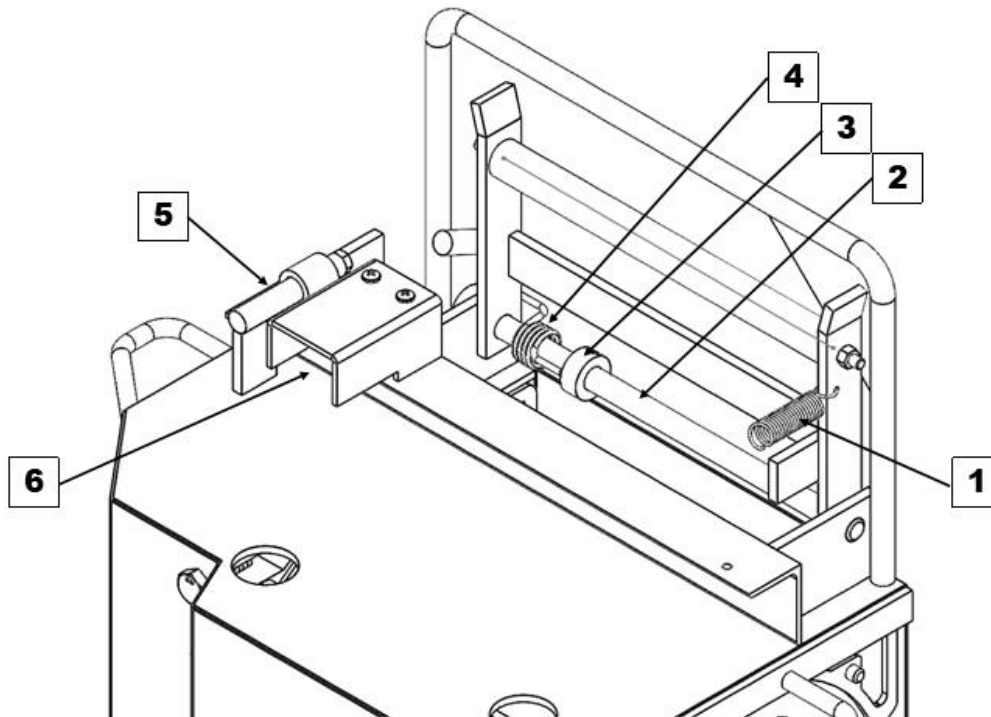
Item	Part Number	Description	Notes
1	40-48	Bolt, O.L. Adjustment	----
2	40-49	Sleeve, Spring Maxial UP Limit	
3	000000000000095	Spring, Maxial SHRD Overload	----
4	30-109	Nut, Up Limit Adjustment	----
--	40-8	Limit Switch, UP Limit	Not Shown
--	20-63	Rung Lock Assembly	Not Shown
--	000000000001825	Spring, Rung Lock	Not Shown

Slack Rope Frame Assembly - 30-63



Item	Part Number	Description	Notes
1	00000000000715	Nut, M6 Ny-lock	Qty 2
2	10-144	Roller, Slack Rope	----
3	10-391	Rod, Threaded Slack Rope	----
4	00000000000302	Bearing, 6mm ID x 19mm OD	Qty 2
5	10-52	Frame, Slack Rope	----

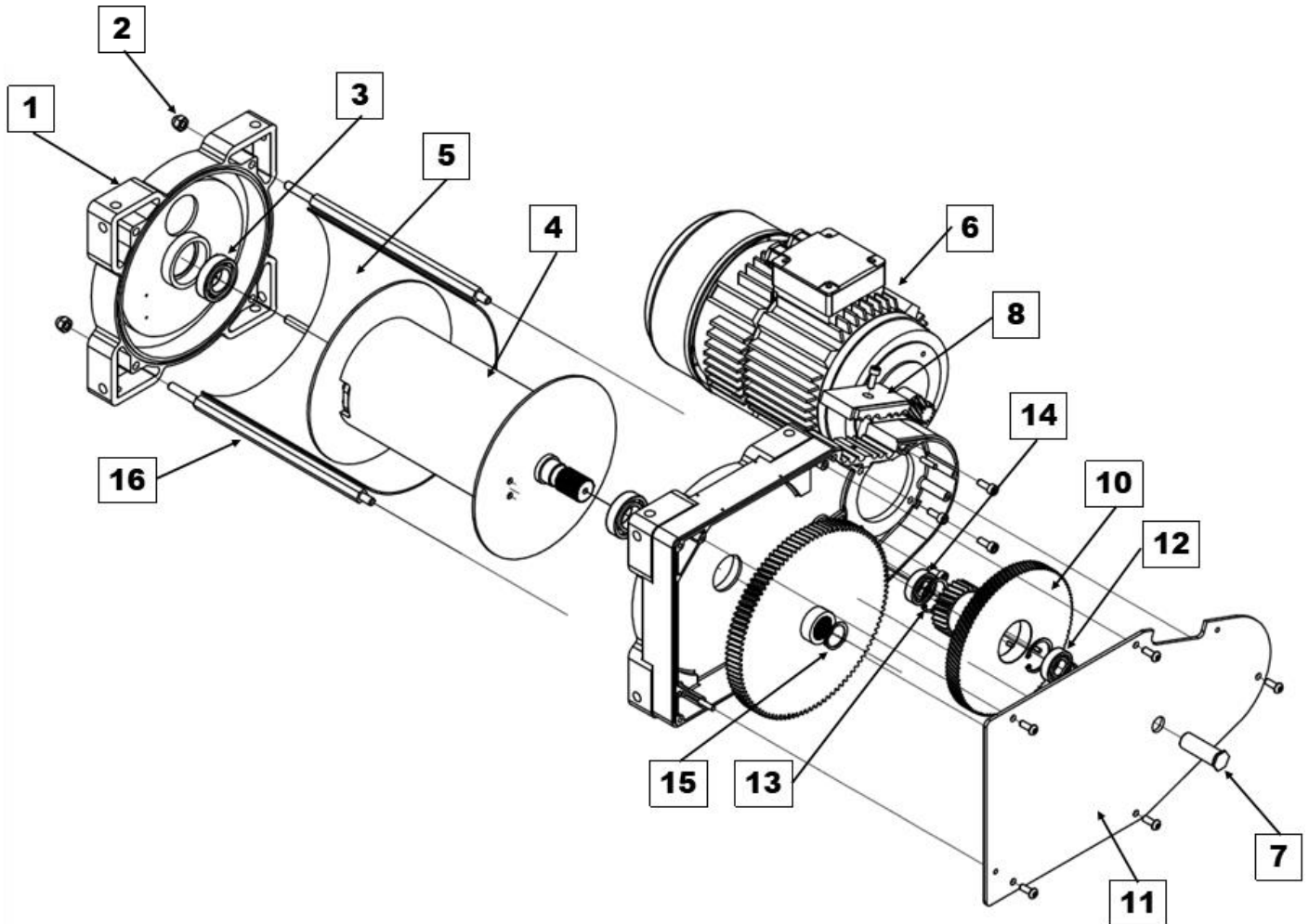
Motor Pack – Top Components



Item	Part Number	Description	Notes
1	00000000000685	Spring, Slack Rope Helper	----
2	10-84-13	Pin, Slack Rope Frame	----
3	10-389	Collar, Slack Rope Pin	----
4	00000000000504	Spring, Slack Rope	----
5	20-63	Rung Lock Assembly	----
5	00000000001825	Spring, Rung Lock	----
6	0000000000122	Limit Switch, Button Slack Rope	Not Shown

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Motor/Transmission Assembly – 30-69-1 & 30-69-4



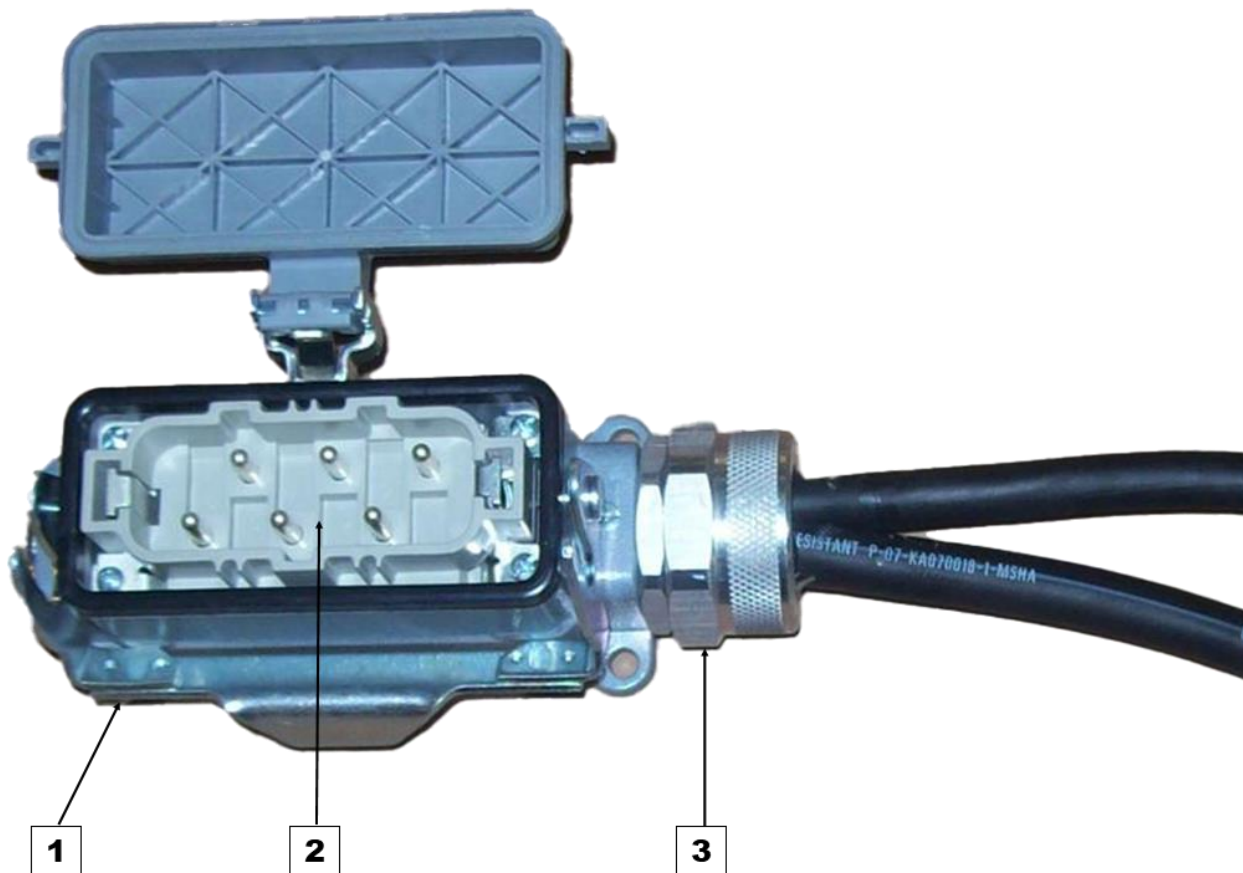
Item	Part Number	Description	Notes
-	20-160	Trans/Drum Assembly Maxial	Includes items 1-5 & 7-17
1	10-153	Flange, Maxial Drum	----
2	##	Nut, Blind	----
3	10-154	Bearing, 6005-1 RS	----
4	--	Drum, Smooth Maxial	Sold only as Assembly 20-160
5	10-143	Guard, Wire Rope	----
6	10-1	Motor, Maxial 110VAC	----
6	10-2	Motor, Maxial 220VAC	----
7	10-459	Collar, Transmission Assembly	
8	70-39	Clamp, Wire Maxial	----
9	00000000001802	Shaft, Intermediate Maxial	Not Shown
10	10-158	Gear, 25/99 Tooth Sub-Assembly	----
11	10-156	Cover, Maxial Transmission	----
12	##	Spacer, Maxial Transmission Cover	----
13	##	Circlip, E140	----
14	10-163	Bearing, 6203	----
15	##	Circlip, E25	----
16	10-3	Tie Rod, Maxial Flange	----
17	70-35	Clamp, Wire Rope	Includes Hardware (Not Shown)

This exploded view diagram illustrates the assembly of a 1000W 12V DC motor. The components are numbered as follows:

- 1**: Front end cap
- 2**: Front end cap gasket
- 3**: Terminal box
- 4**: Terminal box mounting bracket
- 5**: Motor housing
- 6**: Motor housing gasket
- 7**: Motor housing gasket
- 8**: Motor housing gasket
- 9**: Rear end cap
- 10**: Rear end cap gasket
- 11**: Rear end cap gasket
- 12**: Rear end cap gasket
- 13**: Rear end cap gasket
- 14**: Rear end cap gasket
- 15**: Rear end cap gasket
- 16**: Rear end cap gasket
- 17**: Rear end cap gasket
- 18**: Rear end cap gasket
- 19**: Rear end cap gasket

Item	Part Number	Description	Notes
-	10-59A	Stator Assembly, 110VAC	Includes items 3-5 and 30-39-1
-	10-475A	Stator Assembly, 208VAC	Includes items 3-5 and 30-39-1
-	20-163	Rotor/Brake Assembly	Includes items 6-13 & 15-19
-	30-39-1	Motor Conn Assembly, Maxial	Not Shown
-	10-111D	MTR Conn Support Plate	Not Shown
1	000000000000808	Seal, Oil Splash Guard 15X30X5	----
2	20-94	Motor Flange, Stator	----
3	10-478	Cover, Motor Connection	Includes Gasket
3	10-477	Cable Gland, Group Maxial	----
4	10-479	Terminal Block, Motor Connector	----
5	10-59A	Stator, M290 110VAC	Includes items 3-4
5	10-475A	Stator, M290 220VAC	Includes items 3-4
6	000000000000523	Bearing, 6205 2RSJEM 25x52x15	----
7	----	Rotor, Maxial	Only Sold as Assembly 20-163
8	20-55	Brake Block	----
9	10-54	Ring, Brake Locking	----
10	20-86	Brake Tension Kit	----
11	10-180	Bearing, 6206Z	----
12	10-53	Nut, Auto Locking	----
13	10-55	Motor End Shield	----
14	10-48	Tie Rod Kit, Motor	----
15	000000000000008	Screw, Socket Cap M5x40mm	----
16	----	Ring, Brake Adjustment	Only Sold with item 12
17	20-58	Fan, Motor M290	Includes Hardware
18	20-56	Cover, Fan	----
19	20-53	Plug, Fan Cover	----

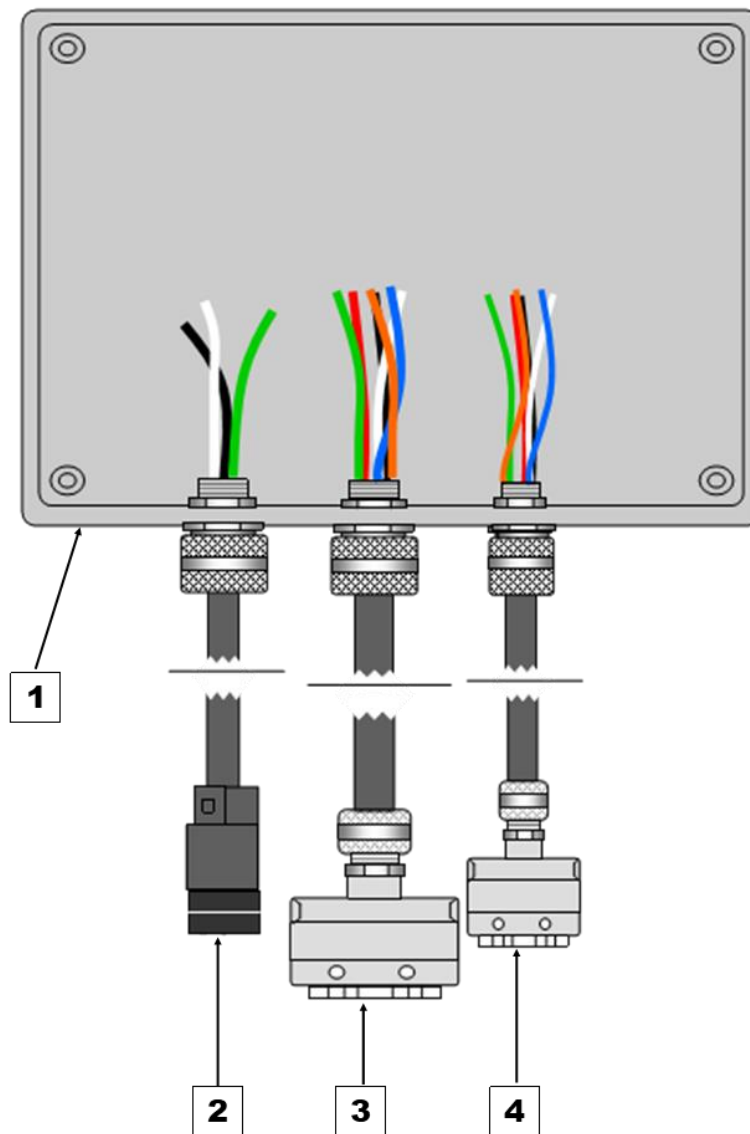
Motor Connector – 30-39-1



Item	Part Number	Description	Notes
1	000000000000185	Housing, Bulkhead w/ Cover	----
-	000000000000853	Plug, Blanking PG21	Not Shown
2	000000000001470	Insert, Male 6 Pin 35A 400V	----
3	000000000000842	Cord Grip, Alum PG21	----

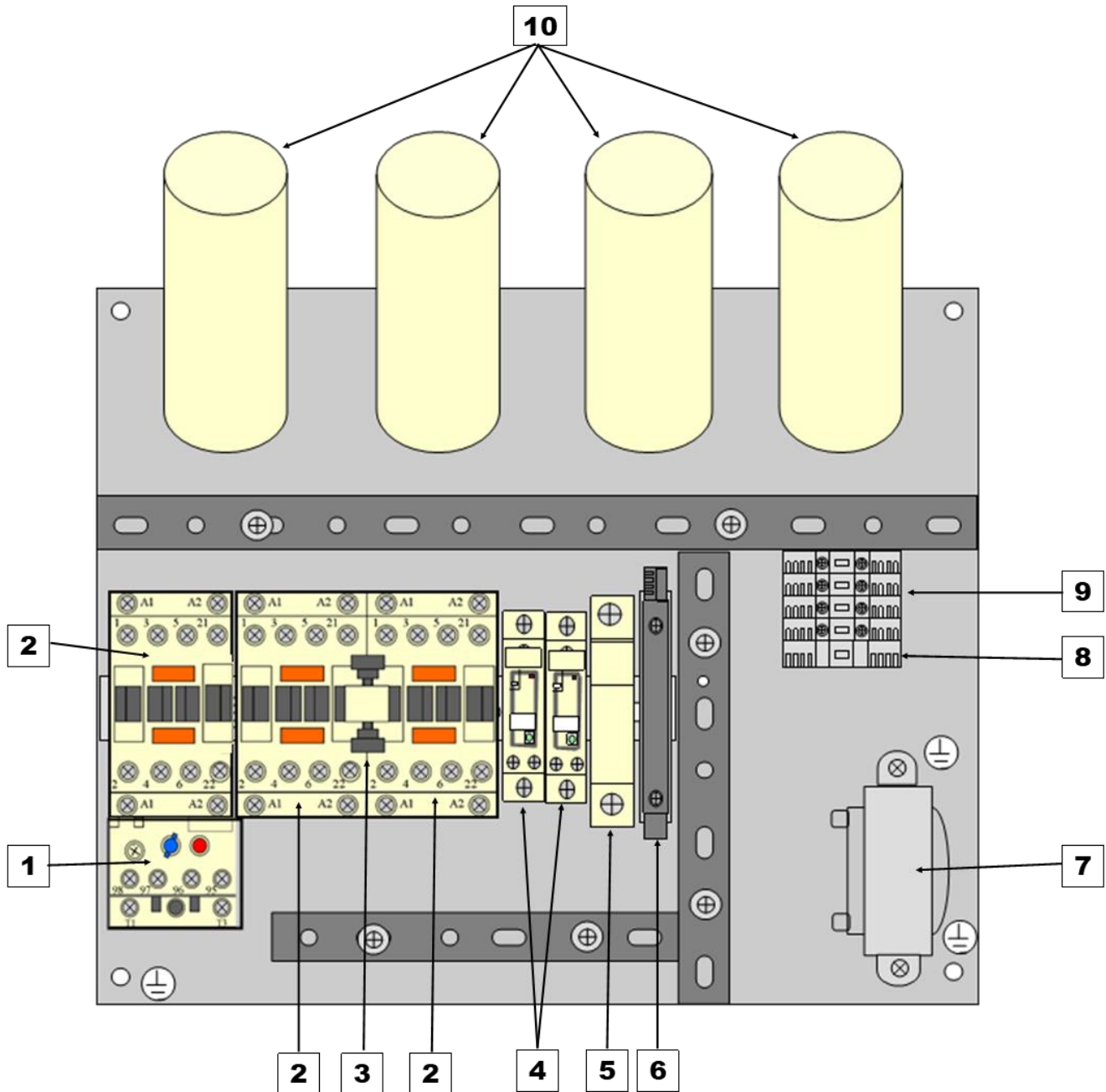
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Section B - Electrical Controller – 30-40-5
Enclosure Assembly – 30-146E



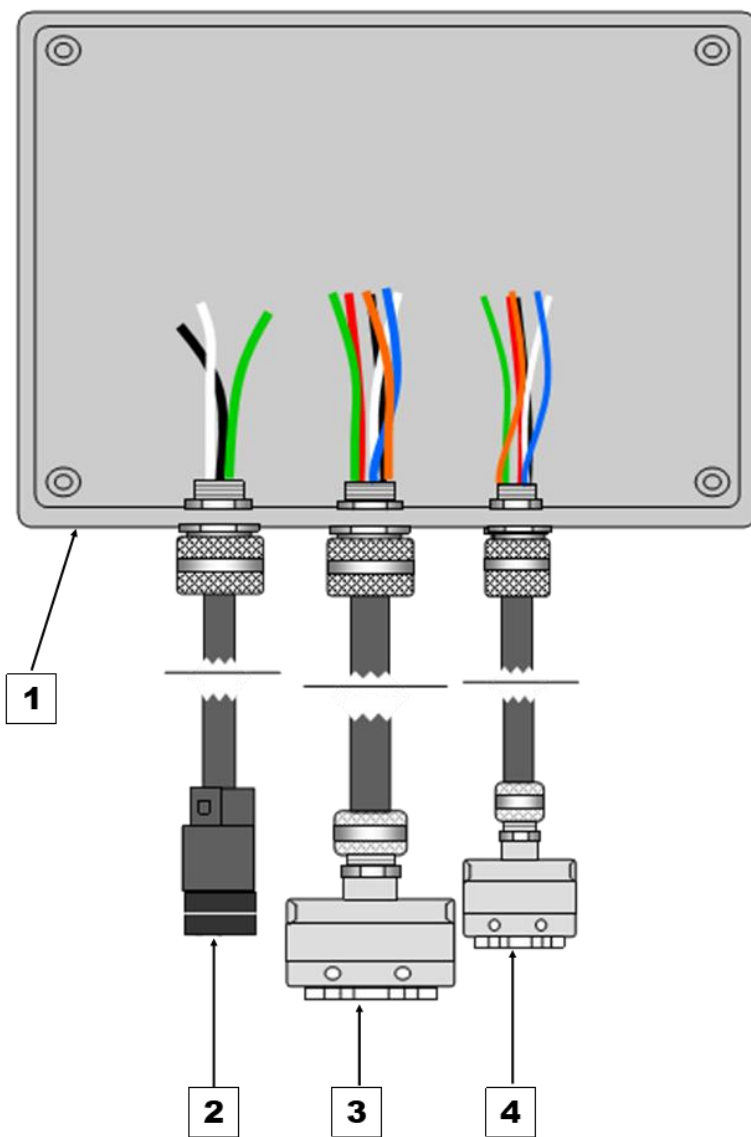
Item	Part Number	Description	Notes
--	10-994	Mount, UL Maxial Control Box	Not Shown
1	00000000001659	Enclosure, Hinge	----
	30-118C	Decal Kit, Maxial Controller 110V	----
2	30-9E	Pigtail Assembly, Power 110V	
	00000000001911	Plug, 110V 30A 1PH	----
	00000000002007	Receptacle, 110V 30A 1PH	Not Shown
3	30-148E	Pigtail Assembly, Motor Cable	----
	00000000001132	Hood, Top Entry 16P	
	00000000001469	Insert, 10B 6 Pin Female 35A 400V	----
	00000000000842	Cord Grip, Alum PG21	
4	40-6E	Pigtail, Pendant Assembly	----
	00000000001872	Hood, Top Entry 6B PG16	
	00000000001875	Insert, 6B 6 Pin Female 16A	----
	00000000001493	Cord Grip, Alum PG16	

Baseplate Assembly – 30-145E 110VAC



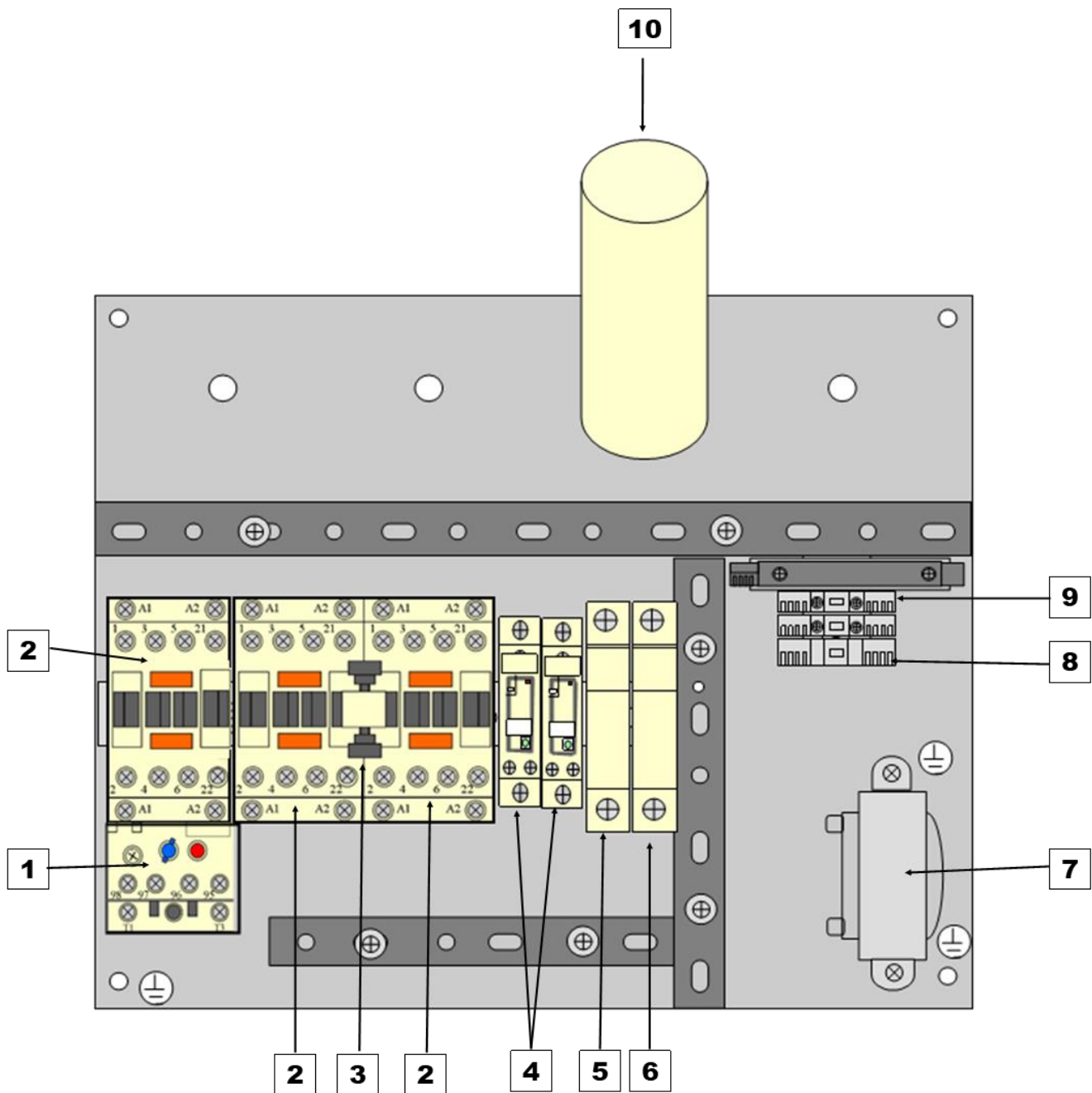
Item	Part Number	Description	Notes
1	000000000001484	Overload, 17-23A	----
2	000000000001480	Contactor, 25A 3NO/1NC	
3	000000000001481	Interlock, Mechanical	----
4	000000000001695	Relay, SPDT 24VAC 15A LED	----
4	000000000001696	Relay Base, SPDT	----
5	000000000001693	Fuse Holder, CC Class 1PL	----
5	000000000001694	Fuse, CC Class 600V 2A	----
6	000000000001561	Fuse Holder, Terminal Block	----
6	000000000001574	Fuse, 7A SLO BLO	----
7	30-149E	Transformer, 110V Pri 24V Sec	----
8	000000000001571	Terminal End Block	----
9	000000000001590	Terminal Block, 20A 12AWG 600V	----
9	000000000001697	Jumpers, Terminal Block	----
10	000000000001692	Capacitors, 70MF UP w/SCR	----

Electrical Controller – 30-40-6
Enclosure Assembly – 30-146F



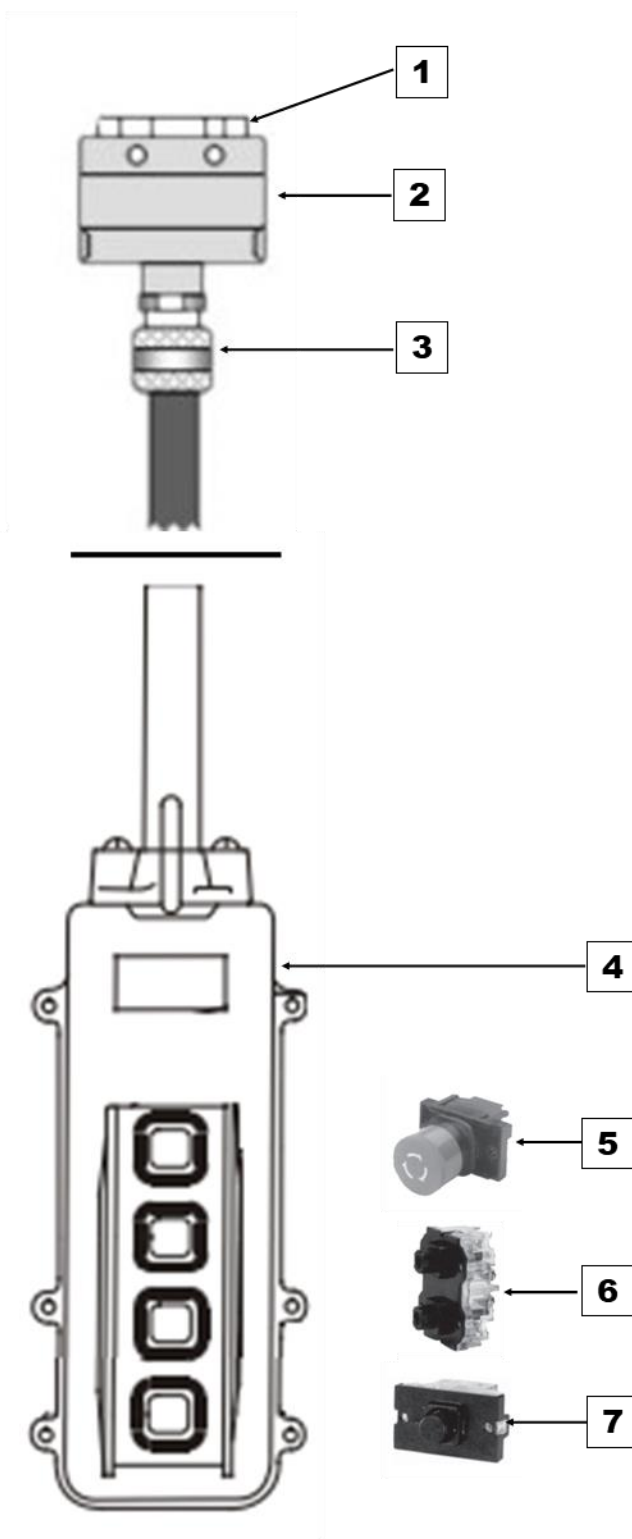
Item	Part Number	Description	Notes
--	10-994	Mount, UL Maxial Control Box	Not Shown
1	000000000001659	Enclosure, Hinge	----
	30-118C	Decal Kit, Maxial Controller 110V	----
2	30-9F	Pigtail Assembly, Power 220V	
	000000000002013	Plug, 220V 20A 1PH	----
	000000000002014	Receptacle, 220V 20A 1PH	Not Shown
3	30-148E	Pigtail Assembly, Motor Cable	----
	000000000001132	Hood, Top Entry 16P	
	000000000001469	Insert, 10B 6 Pin Female 35A 400V	----
	000000000000842	Cord Grip, Alum PG21	
4	40-6E	Pigtail, Pendant Assembly	----
	000000000001872	Hood, Top Entry 6B PG16	
	000000000001875	Insert, 6B 6 Pin Female 16A	----
	000000000001493	Cord Grip, Alum PG16	

Baseplate Assembly – 30-145F 208VAC



Item	Part Number	Description	Notes
1	00000000001483	Overload, 9-14A	----
2	00000000001478	Contactor, 25A 3NO/1NC	----
3	00000000001481	Interlock, Mechanical	----
4	00000000001695	Relay, SPDT 24VAC 15A LED	----
4	00000000001696	Relay Base, SPDT	----
5	00000000001693	Fuse Holder, CC Class 1PL	----
5	00000000001615	Fuse, CC Class 600V 1A	----
6	00000000001561	Fuse Holder, Terminal Block	----
6	00000000001574	Fuse, 7A SLO BLO	----
7	30-149F	Transformer, 220V Pri 24V Sec	----
8	00000000001571	Terminal End Block	----
9	00000000001590	Terminal Block, 20A 12AWG 600V	----
10	00000000001692	Capacitors, 70MF UP w/SCR	----

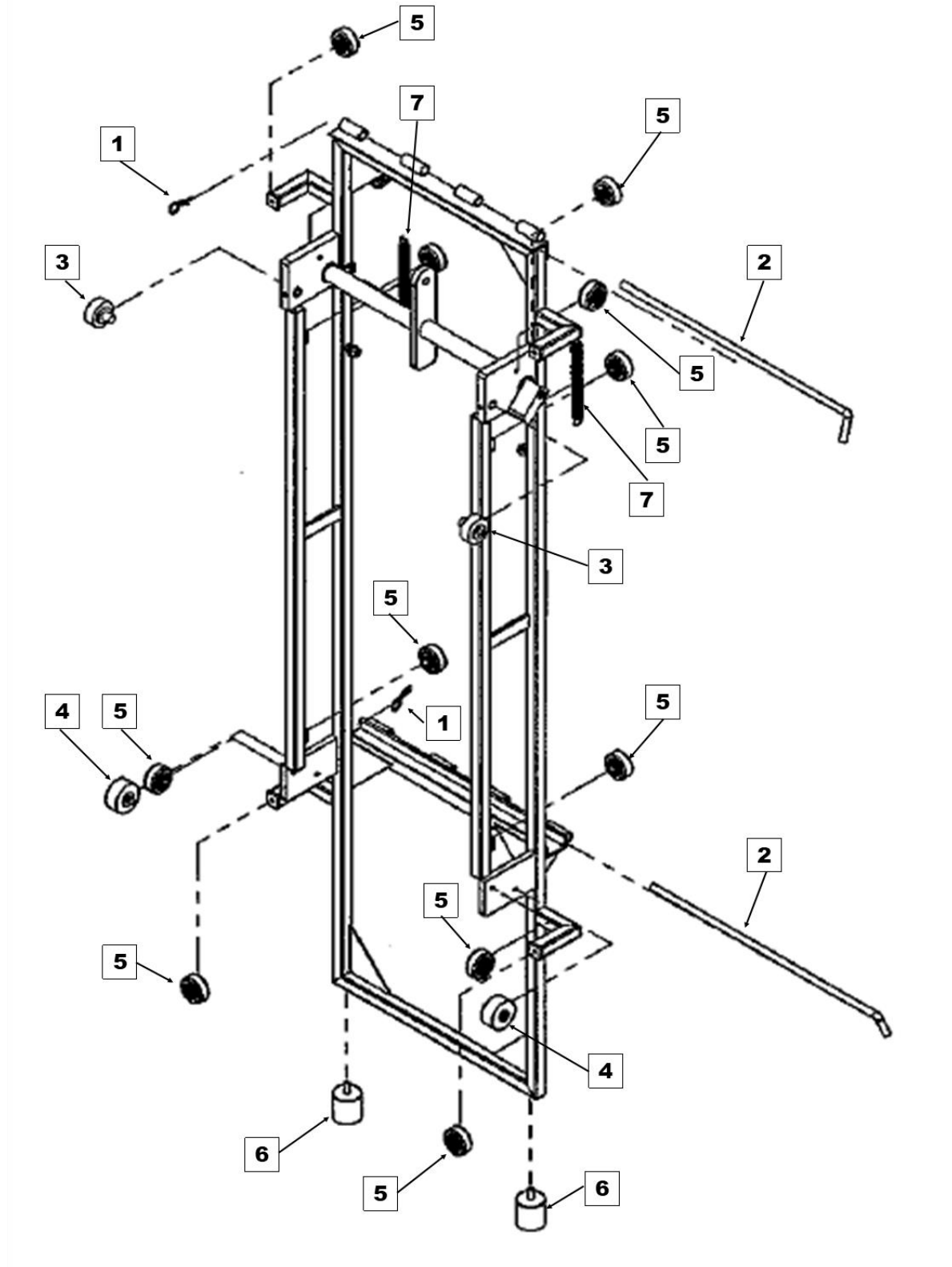
Control Pendant 50-36



Item	Part Number	Description	Notes
1	000000000000831	Insert, 6B Male	----
2	000000000000838	Hood, 6B Top Entry w/Latch	----
3	000000000001493	Cord Grip, Alum PG16	----
4	000000000000988	Enclosure, 4 Button Pendant	----
5	000000000000990	E-Stop, 30mm 1NC Red	----
6	000000000001181	Switch, MOM 2NO w/Interlock	----
7	000000000001747	Switch, MOM 1NO	----

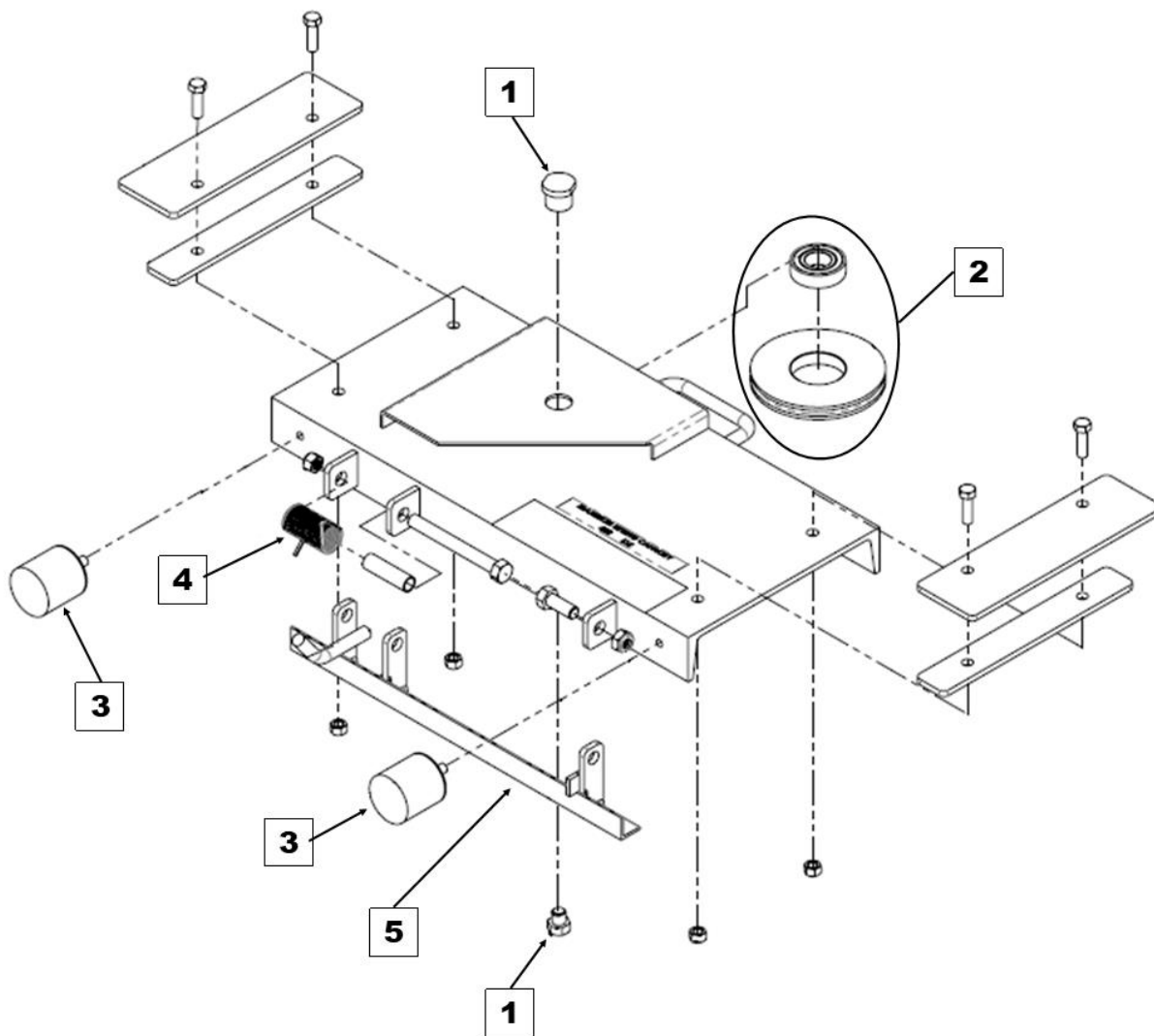
Section C – Lifting Unit

Universal Carriage - 200-1



Item	Part Number	Description	Notes
1	000000000000037	Pin, Cotter	----
2	30-41	Pin, Carriage	----
3	80-15	Wheel, Top w/ Pin	----
4	80-16	Wheel, Lower w/ Shoulder Bolt	----
5	80-14	Roller, Guide w/ Shoulder Bolt	----
6	000000000000088	Bumper	----
7	10-226	Spring, Carriage Brake	----

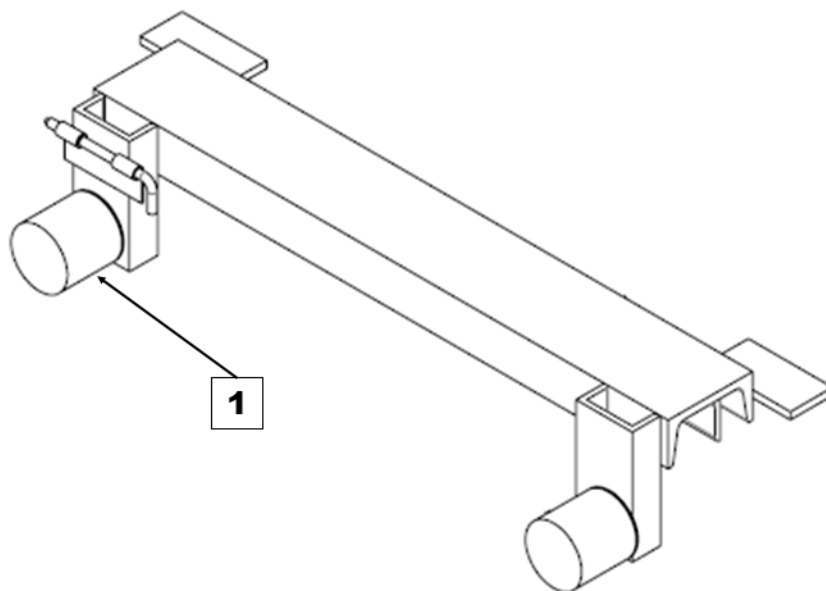
Section D
Sliding Head – 80-2



Item	Part Number	Description	Notes
1	10-79	Standoff, Sheeve Maxial	----
2	10-76	Sheeve w/ Bearing	----
3	000000000000088	Bumper	----
4	000000000000501	Spring, Release Handle	----
5	30-102	Flipper, Sliding Head	----

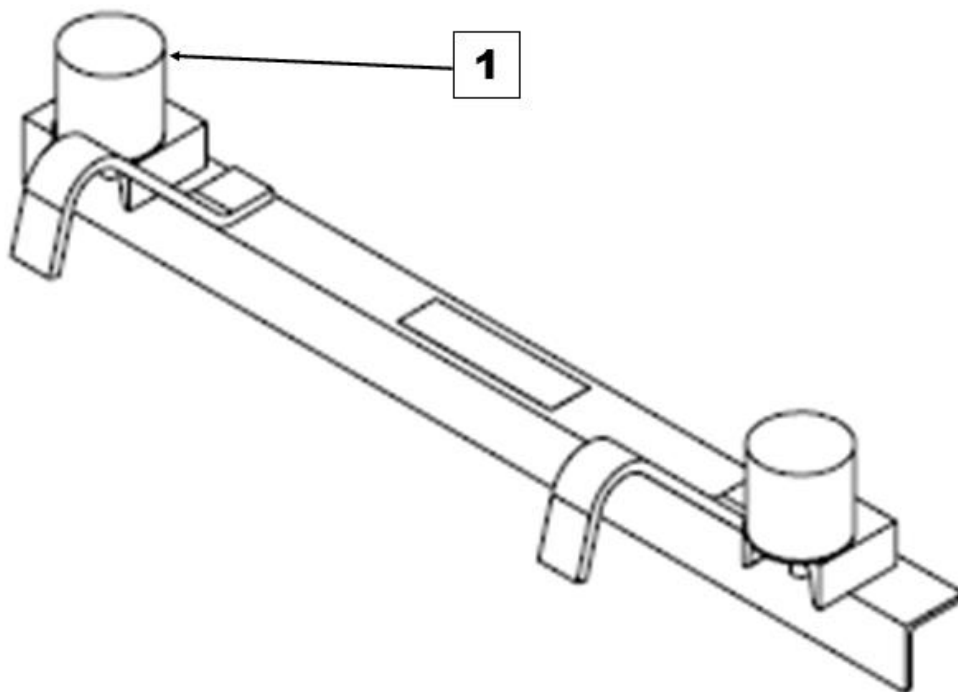
Section E – Terminal Stops

Top Stop – 80-8



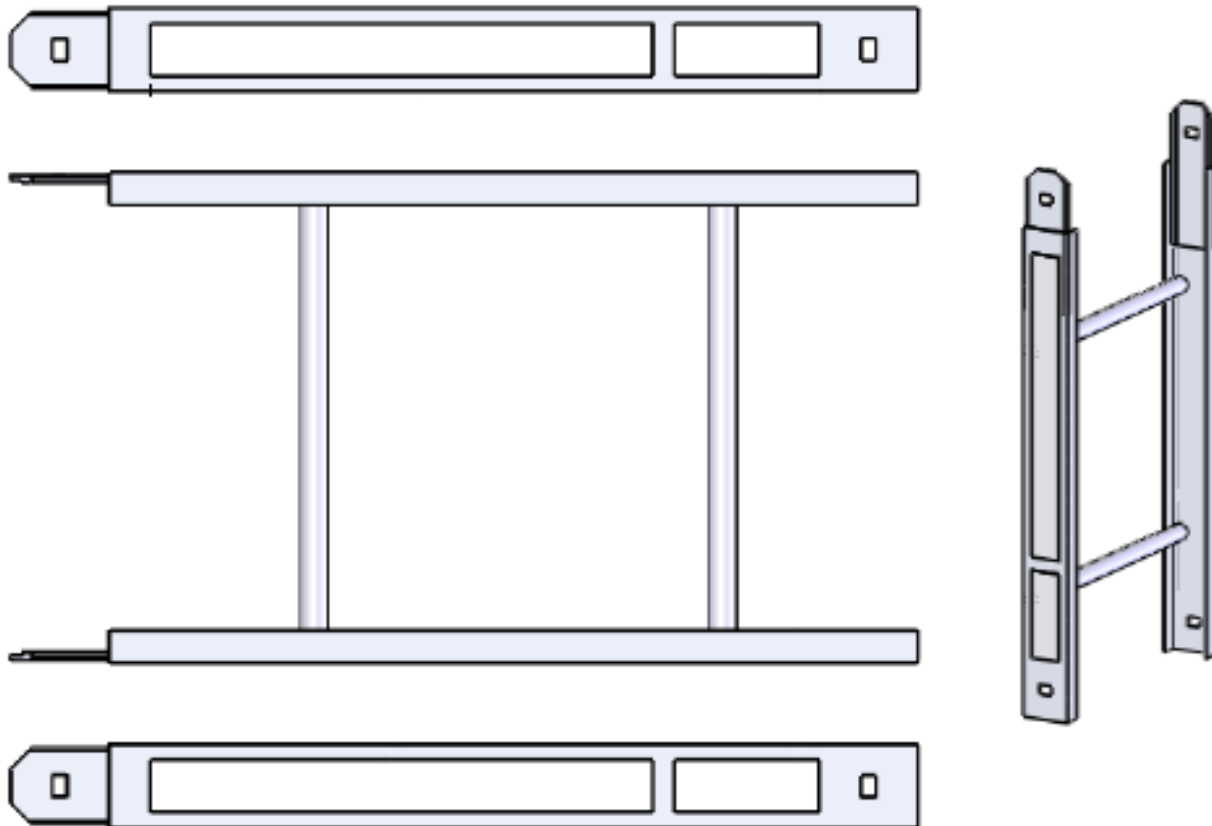
Item	Part Number	Description	Notes
1	000000000000088	Bumper, 65 Durometer	----
	000000000000561	Nut, Nylock 3/8-16 x 29/64 G2	

Bottom Stop 80-4

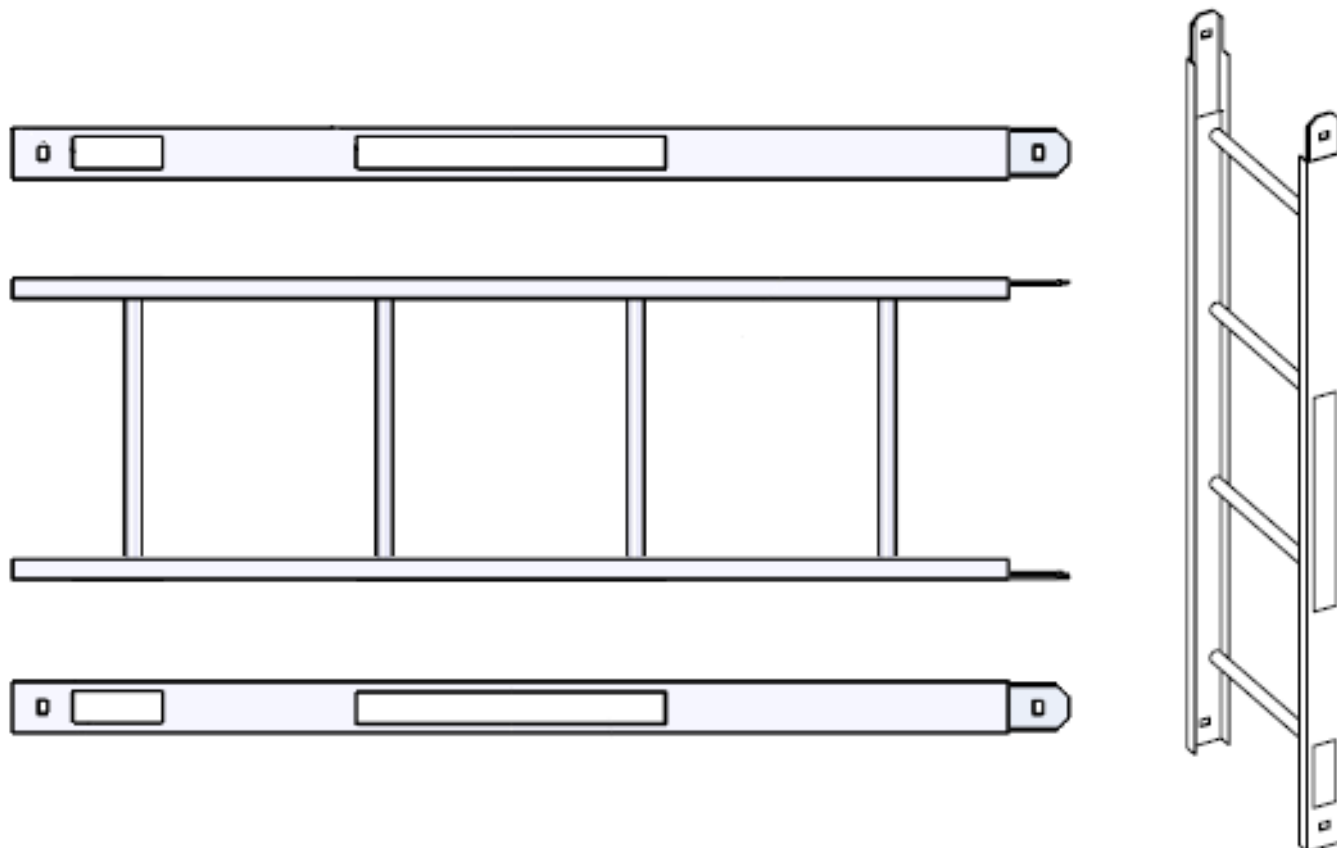


Item	Part Number	Description	Notes
1	000000000000088	Bumper, 65 Durometer	----
	000000000000561	Nut, Nylock 3/8-16 x 29/64 G2	

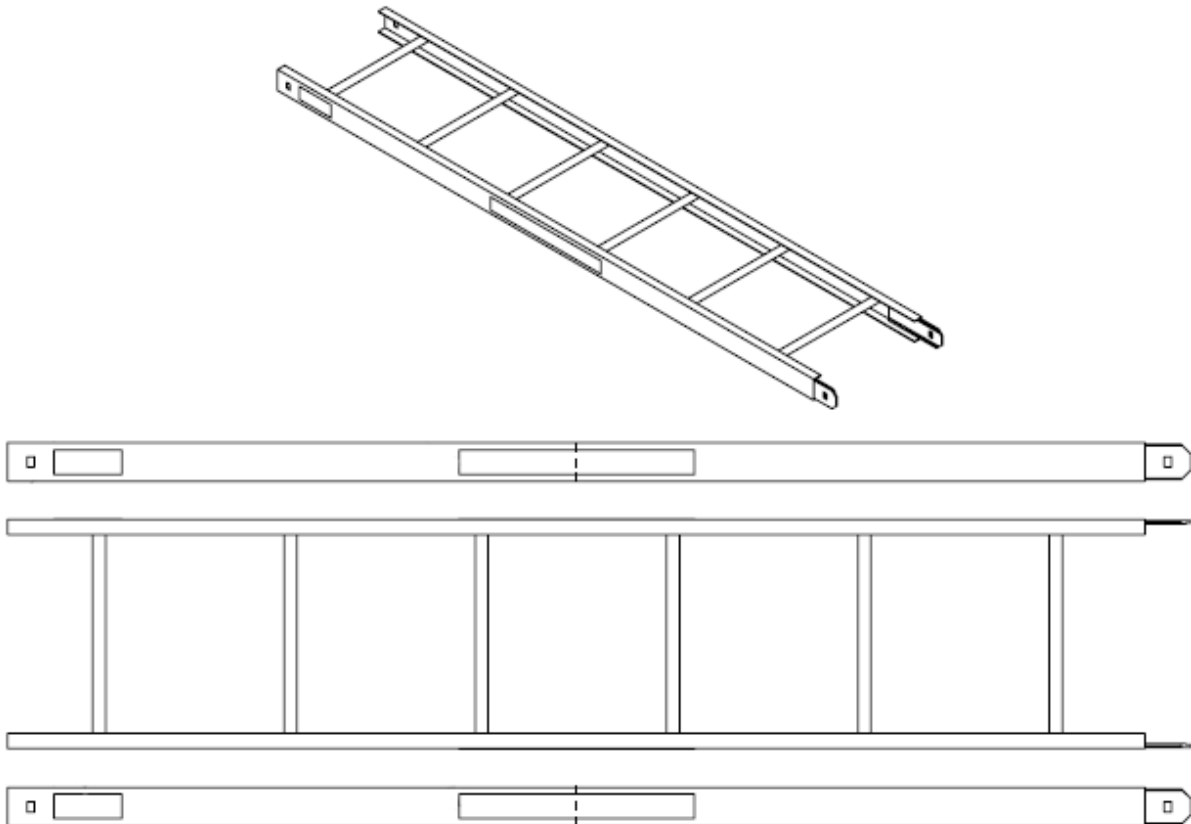
Section F - Track Components
Track Section 3'3" 90-5



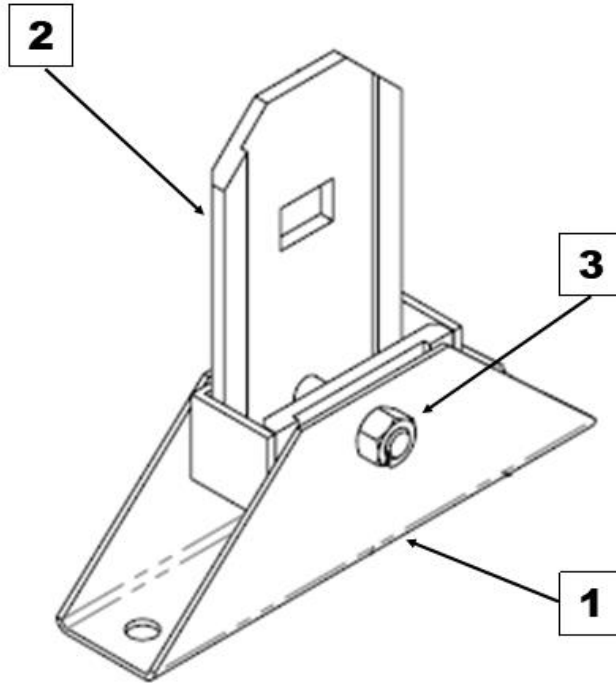
Track Section 6'6" 90-1



Track Section 9'9" 90-2

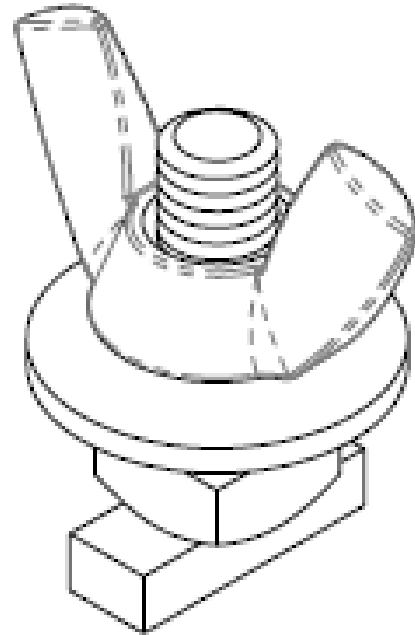
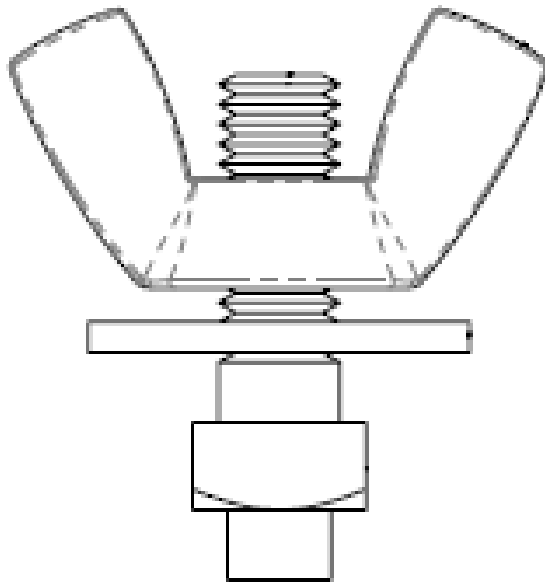


Maxial Ladder Feet 80-1

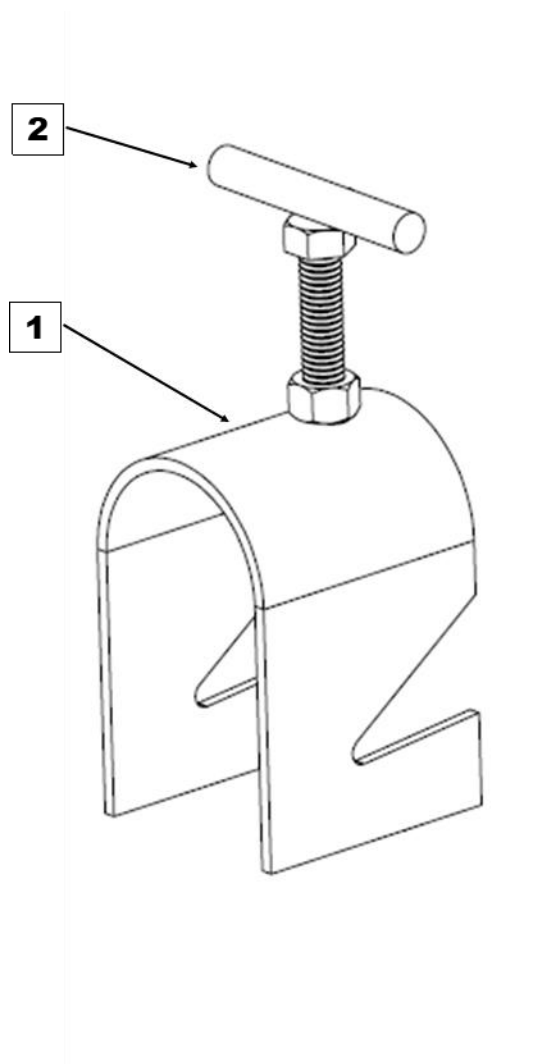


Item	Part Number	Description	Notes
1	10-113	Feet, Maxial Ladder	----
2	10-113-01	Connector, Ladder Feet	----
3	000000000000708	Bolt, Hex HD ½-13 x 2 ½	----
3	000000000000377	Nut, Nylock ½ -13 x 19/64 G2	----

Kwik Bolt – 90-6

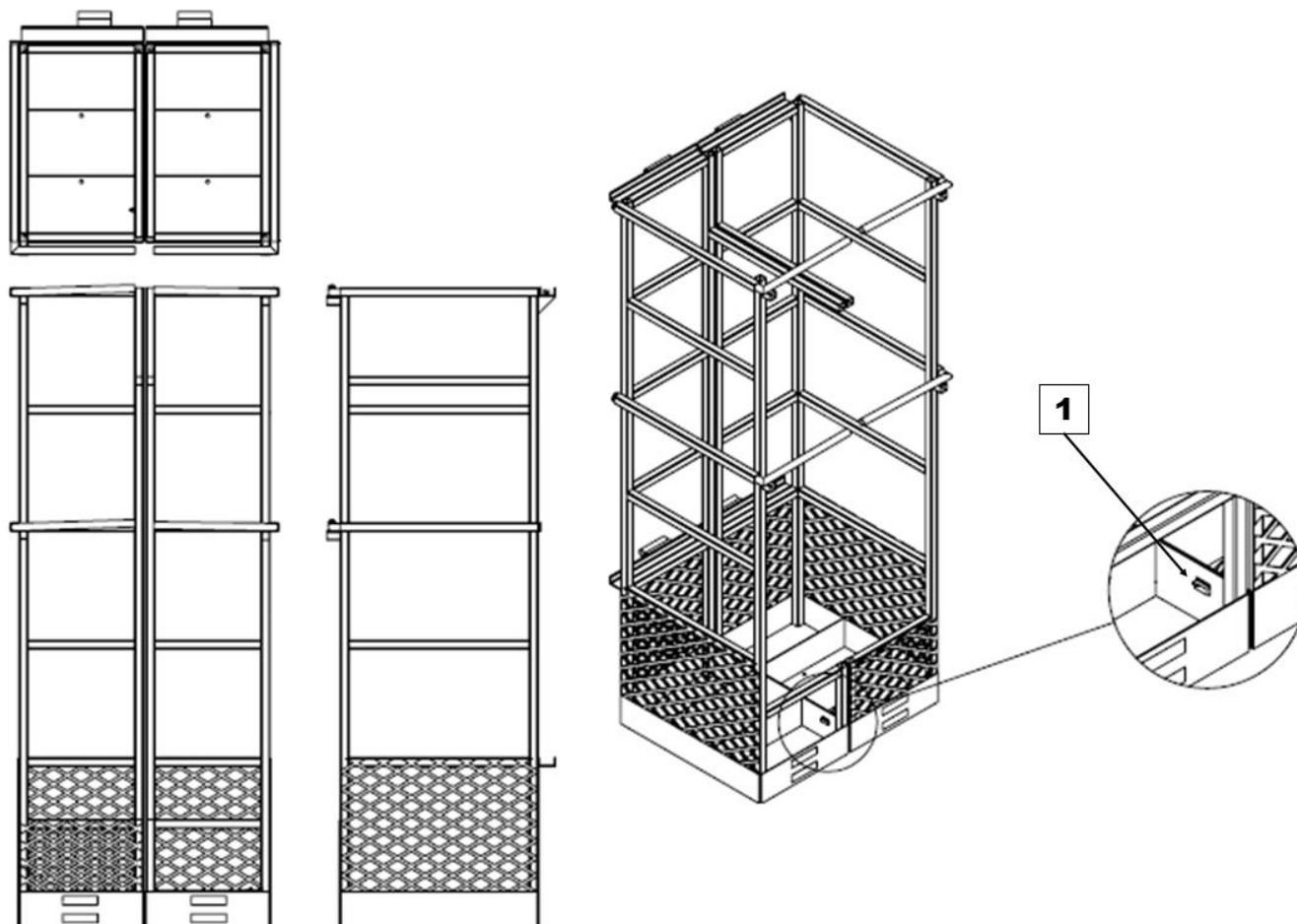


Scaffold Clamp – 90-4



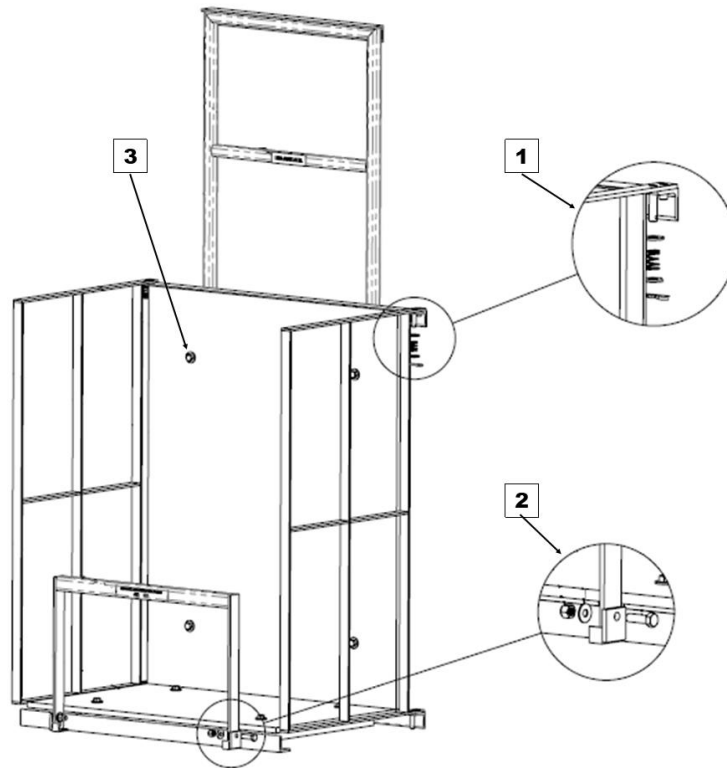
Item	Part Number	Description	Notes
1	10-112	U-Clamp, Maxial Scaffold	---
2	40-29	T-Handle, Maxial Scaff Clamp	---

Section G – Loading Units Systems Basket 100-5



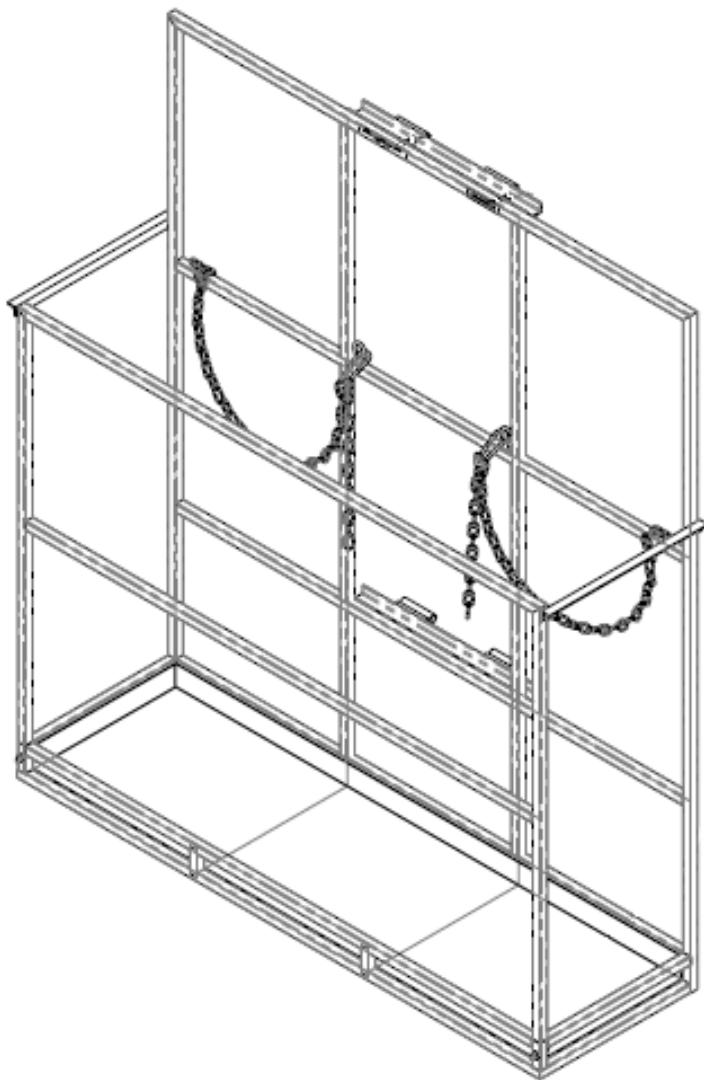
Item	Part Number	Description	Notes
1	90-6	Kwik Bolt	----
--	20-170	Decal, Weight Capacity 225Lbs	Not Shown
--	20-45	Decal, Betamax 1x4	Not Shown

Universal Platform – 100-3



Item	Part Number	Description	Notes
1	000000000000037	Clips, Hitch Pin 1/8x1 15/16	----
1	0000000000001922	Spring, Compression	----
1	0000000000000052	Washer, Flat 3/8 USS G5	----
2	0000000000000160	Bolt, HEX HD 3/8-16x1 ¼	----
2	0000000000000052	Washer, Flat 3/8 USS G5	----
2	0000000000000561	Nut, Nylock 3/8-16x29/64 G2	----
3	0000000000000160	Bolt, HEX HD 3/8-16x1 ¼	----
3	0000000000000052	Washer, Flat 3/8 USS G5	----
3	0000000000000561	Nut, Nylock 3/8-16x29/64 G2	----
--	20-172	Decal, Weight Capacity 450Lbs	Not Shown
--	20-45	Decal, Betamax 1x4	Not Shown

Frame Scaffold Carrier – 100-2



Item	Part Number	Description	Notes
--	30-277	Chain, Safety	----
--	20-172	Decal, Weight Capacity 450Lbs	Not Shown
--	20-45	Decal, Betamax 1x4	Not Shown