

OPERATING, MAINTENANCE & PARTS MANUAL

ELECTRIC CHAIN HOIST



Before installing hoist, fill in the information below.

Model Number _____

Serial No. _____

Purchase Date _____

Voltage _____

Rated Load _____

RATED LOADS 1/4 TO 2 TONNES 250 KG TO 2000 KG

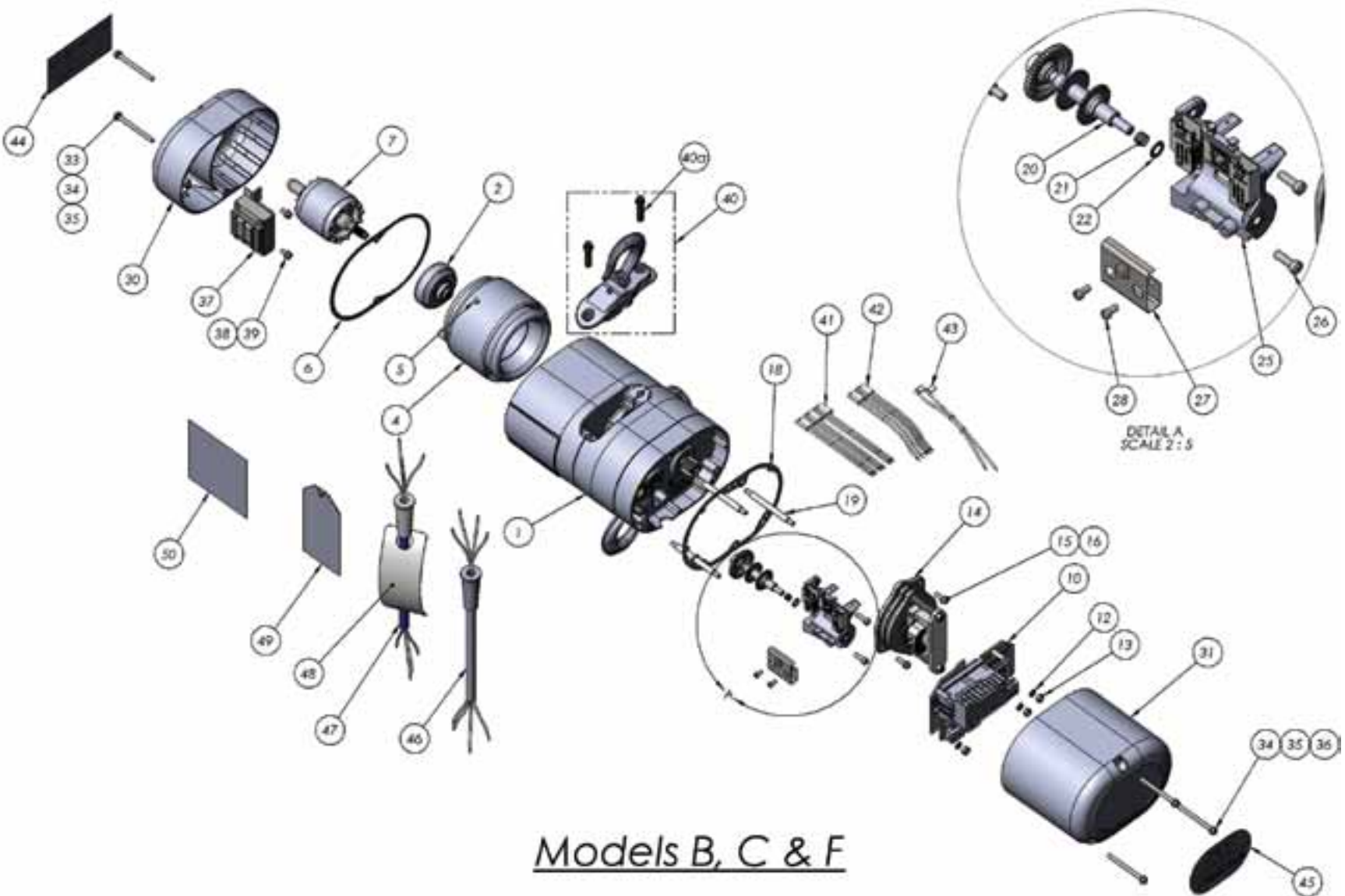
**Follow all instructions and warning for inspecting,
maintaining and operating this hoist.**

The use of any hoist presents some risk of personal injury or property damage. That risk is greatly increased if proper instructions and warnings are not followed. Before using this hoist, each operator should become thoroughly familiar with all warnings, instructions and recommendations in this manual. **Retain this manual for future reference and use.**

Forward this manual to operator. Failure to operate equipment as directed in manual may cause injury.



V1-SMALL FRAME MODELS B, C, & F



Models B, C & F

V1-SMALL FRAME MODELS B, C, & F

Item No.	Description	Model B	Model C	Model F	QTY.
1	GEAR BOX SUB-ASSY - DC BRAKE TYPE - SEE Gearbox Section	00000832B	00000831C	00000832C	1
2	CLUTCH ASSEMBLY	C00000240	C00000241	C00000240	1
3	D8+ CLUTCH ASSEMBLY	—		C00000240	**
4	STATOR - 115/230V-50HZ-1Ø	00000473	00000472	00000472	1
	STATOR - 115/230V-60HZ-1Ø	00000467	00000462	00000462	
	STATOR - 230/460V-3Ø	00000466	00000461	00000461	
5	STATOR PIN	983541			1
6	MOTOR COVER GASKET	27847			1
7	ROTOR ASSEMBLY 50HZ-1Ø	00000266	00000261	00000261	1
	ROTOR ASSEMBLY 60HZ-1Ø	00000265	00000261	00000261	
	ROTOR ASSEMBLY 3Ø	00000264	00000260	00000260	
8	EMPTY	—			—
9	EMPTY	—			—
10	CONTACTOR PLATE ASSEMBLY	SEE CONTACTOR PLATE SECTION			1
11	EMPTY	—			—
12	LOCKWASHER	982226			3
13	CONTACTOR PLATE MOUNTING NUT	982514			3
14	BRAKE ASSEMBLY	SEE BRAKE SECTION			1
14a	BRAKE HUB SPACER	SEE BRAKE SECTION			0-1
14b	BRAKE HUB	SEE BRAKE SECTION			0-2
14c	BRAKE HUB SNAP RING	SEE BRAKE SECTION			1
15	LOCKWASHER	982226			2
16	BRAKE MOUNTING SCREW	982708			2
17	EMPTY	—			
18	BACK FRAME COVER GASKET	27848			1
19	CONTACTOR PLATE MOUNTING STUD	27836			3
20	LIMIT SWITCH SHAFT S/A	00000521			1
21	LIMIT SWITCH SHAFT SPRING	28712			1
22	WASHER	987878			1
23	EMPTY	—			—
24	EMPTY	—			—
25	LIMIT SWITCH BRACKET S/A	00000520			1
26	LIMIT SWITCH BRACKET SCREWS	982708			2
27	LIMIT SWITCH SPRING GUIDE	52737			1
28	LIMIT SWITCH GUIDE MOUNTING SCREW	983614			2
29	EMPTY	-			-
30	MOTOR COVER	27059			1
31	BACK FRAME COVER	28009B			1
32	EMPTY	-			-
33	MOTOR COVER SCREW	987397			2
34	WASHER	982251			5
35	SCREW RETAINER	00001747			5
36	BACK FRAME COVER SCREW	87325			3
37	TRANSFORMER 24V SECONDARY	00000586			1*
	TRANSFORMER 48V SECONDARY	00000587			
	TRANSFORMER 120V SECONDARY	00000588			
38	LOCKWASHER	982226			2*
39	TRANSFORMER MOUNTING SCREW	982688			2*
40	UPPER SUSPENSION ASSEMBLY	See Brake Section			1
40.1	SUSPENSION BOLT	987554			2
41	HARNESS-SINGLE PHASE - DC BRAKE TYPE	00001543			1
	HARNESS-THREE PHASE - DC BRAKE TYPE	00001540			
	HARNESS-DIRECT CONTROL - DC BRAKE TYPE	00000573 & 00000332			
42	HARNESS-V1 (3Ø ONLY)	00000749			1*
44	SERIES LABEL	00000780			1

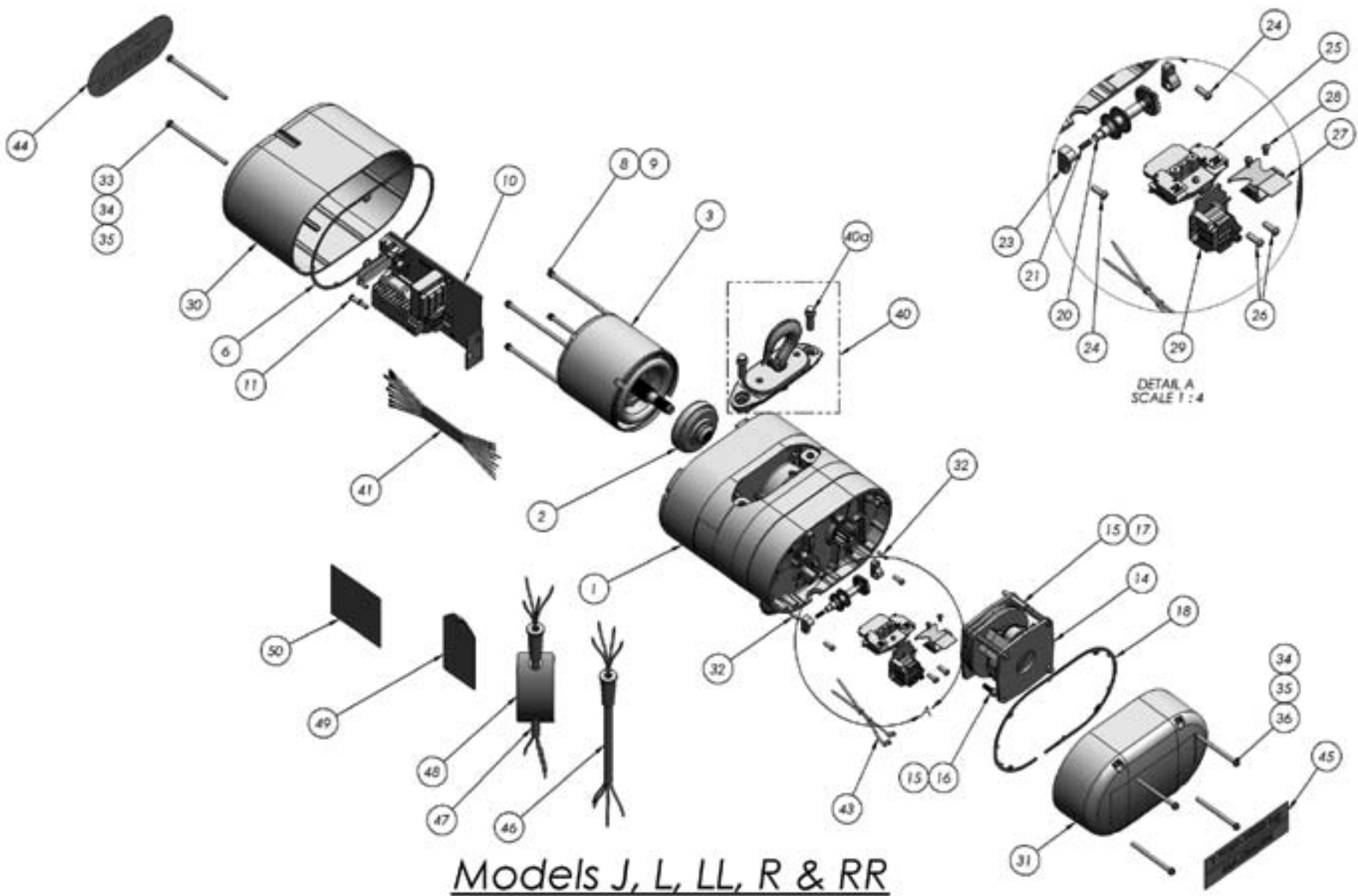
Item No.	Description	Model B	Model C	Model F	QTY.
45	CAPACITY LABEL	00000772	00000772	00000773	1
	D8+ CAPACITY LABEL	—	—	00000213	**
46	POWER CORD-SINGLE PHASE	27759			1
	POWER CORD-THREE PHASE	23608608			
	POWER CORD-DIRECT CONTROL	23608608			
47	CONTROL CORD - SINGLE PHASE	29350 (INCLUDES ITEM 48)			1*
	CONTROL CORD - THREE PHASE	00000743			
48	WARNING TAG	81704			1
49	INSTRUCTION TAG	28275			
	INSTRUCTION TAG-DIRECT CONTROL	00000771			1
50	LOOSE END LINK	27351			1
51	WASHER	954802			1
52	LOCK WASHER	982226			1
53	LOOSE END SCREW	927764			1
54	LOWER HOOK BLOCK ASSEMBLY	See hook block section			1
55	CHAIN STOP KIT	24015K			1
56	VOLTAGE LABEL	27698	27699	27696	1
57	LOAD CHAIN	85944 (ZINC PLATED)			AS REQ'D
		85973 (EN 818-7, ZINC PLATED)			
		85889 (BURNISHED AND OILED)			
		85965 (ZINC PHOSPHATE PLATED)			
		85915 (NICKEL PLATED)			
58	RUBBER PLUG	27891			1**
59***	WARNING LABEL	00000779			1
60***	WARNING LABEL	36981			1
61***	RoHS LABEL	00000782			1
62***	LABEL, ELECTRICAL INFORMATION	24846			1
63***	CHAIN LABEL	928894			1
64***	WARNING LABEL, ELECTRICAL HAZARD	24842			2
65***	CE LABEL	40219			1

*Not required for Direct Control units

**Only required for Direct Control units

***Not shown in exploded views

V2-LARGE FRAME MODELS J, L, LL, R, & RR



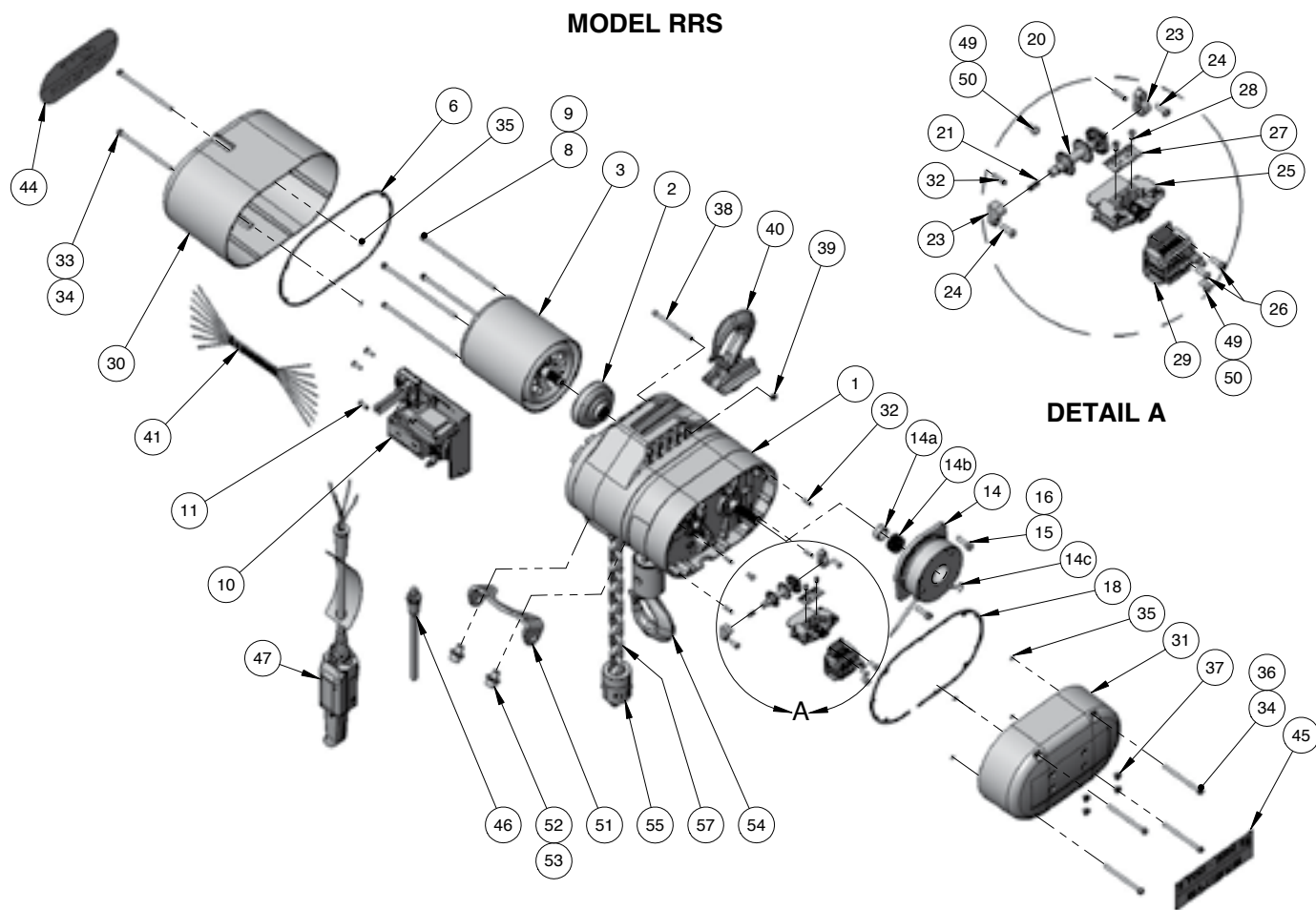
V2-LARGE FRAME MODELS J, L, LL, R, & RR

Item No.	Description	Model J	Model L	Model R	Model LL	Model RR	QTY.
1	GEAR BOX SUB-ASSY - DC BRAKE TYPE - SEE Page 60	00000845B	00000847B		00000845B		1
2	CLUTCH ASSEMBLY		00000242C		00000243C		1
	CLUTCH ASSEMBLY D8**+	00000243C	00000288C	00000288C	00000242C	00000242C	
3	3/4 MOTOR - 115V-1Ø		00000401		-		
	3/4 MOTOR - 230/460V-3Ø		00000440		00000450 1		
	3/4 MOTOR - 230/460V-3Ø DIRECT CONTROL		00000402		00000408		
4	EMPTY		-				-
5	EMPTY		-				-
6	MOTOR COVER GASKET		35845				1
7	EMPTY		-				-
8	LOCKWASHER		982226				4
9	MOTOR MOUNTING SCREW		87377		87336		4
10	CONTACTOR PLATE ASSEMBLY		See Contactor Plate Section				1
11	CONTACTOR PLATE MOUNTING SCREW		983656				3
12	EMPTY		-				-
13	EMPTY		-				-
14	BRAKE ASSEMBLY		See Brake Section				1
14a	BRAKE HUB SPACER		See Brake Section				0-2
14b	BRAKE HUB		See Brake Section				0-2
14c	BRAKE HUB SNAP RING		See Brake Section				1
15	LOCKWASHER		945851				2
16	BRAKE MOUNTING SCREW - DC BRAKE TYPE ONLY		982709				2
	BRAKE MOUNTING SCREW - AC BRAKE TYPE ONLY						1
17	BRAKE MOUNTING STUD - AC BRAKE TYPE ONLY		36674				1
18	BACK FRAME COVER GASKET		00000236				1
19	EMPTY		-				-
20	LIMIT SWITCH SHAFT S/A	00000525	00000524	00000524	00000525	00000525	1*
21	LIMIT SWITCH SHAFT SPRING		35703				1*
22	EMPTY		-				-
23	LIMIT SWITCH BEARING		35751				2*
24	LIMIT SWITCH BEARING SCREWS		983656				2*
25	LIMIT SWITCH BRACKET S/A		36827				1*
26	LIMIT SWITCH BRACKET SCREWS		983656				2*
27	LIMIT SWITCH GUIDE PLATE - ROTATABLE		52500				1*
28	LIMIT SWITCH GUIDE MOUNTING SCREW		983614				2*
29	TERMINAL STRIP S/A - FOR DC BRAKE		00000534				1*
	TERMINAL STRIP S/A - FOR AC BRAKE		00000380				
30	MOTOR COVER		36025B				1
31	BACK FRAME COVER		36008B				1
32	BACKFRAME COVER PINS		983784				4
33	MOTOR COVER SCREW		987553				2
34	WASHER		982251				6
35	SCREW RETAINER		00001747				6
36	BACK FRAME COVER SCREW		968752				4
37-39	EMPTY		-				-
40	UPPER SUSPENSION ASSEMBLY		SEE Page 42				1
40.1	SUSPENSION BOLT		36849				2
41	HARNESS-SINGLE PHASE - DC BRAKE TYPE		00001545				1
	HARNESS-THREE PHASE - DC BRAKE TYPE		00001547				
	HARNESS-DIRECT CONTROL - DC BRAKE TYPE		00000212				
44	SERIES LABEL		00000781				1
45	CAPACITY LABEL	00000774	00000775	00000776	00000775	00000776	1
	CAPACITY LABEL D8+	00000214	00000783	00000784	00000214	00000215	

Item No.	Description	Model J	Model L	Model R	Model LL	Model RR	QTY.
46	POWER CORD-SINGLE PHASE	29043					1
	POWER CORD-THREE PHASE	00000742					
	POWER CORD-DIRECT CONTROL	00000742					
47	CONTROL CORD-SINGLE PHASE	29350					1*
	CONTROL CORD-THREE PHASE	00000744					
48	WARNING TAG	81704					1
49	INSTRUCTION TAG	28275					1
	INSTRUCTION TAG-DIRECT CONTROL	00000771					
50	LOOSE END LINK	35367					1
51	WASHER	954807					1
52	LOCK WASHER	945851					1
53	LOOSE END SCREW	987210					1
54	LOWER HOOK BLOCK ASSEMBLY	SEE Pages 45-46					1
55	CHAIN STOP KIT	24016K					1
56	CONTACT BLOCK (REPLACED IN SOME APPLICATIONS BY CHAIN PLATE)	-	-	00000224B	-	00000224B	1
57	LOAD CHAIN	85949 (ZINC PLATED)					AS REQ'D
		85983 (EN 818-7, ZINC PLATED)					
		85979 (BURNISHED AND OILED)					
		85966 (ZINC PHOSPHATE PLATED)					
		85916 (NICKEL PLATED)					
58	SOLID STATE REVERSE SWITCH	35499					1***
59	SOLID STATE REVERSE SWITCH CLAMP	27275					1***
60	SOLID STATE REVERSE SWITCH SCREW	982873					1***
61	VOLTAGE LABEL	27690	27687	27691	27692	27693	1*
62	RUBBER PLUG	27891					1**
63	BACK FRAME HOLE PLUGS	00000574					4
64****	WARNING LABEL	00000209					1
65****	WARNING LABEL	00000211					1
66****	RoHS LABEL	00000782					1
67****	LABEL, ELECTRICAL INFORMATION	24846					1
68****	CHAIN LABEL	928894					1
69****	WARNING LABEL, ELECTRICAL HAZARD	24842					2
70****	CE LABEL	40219					1

* Not required for Direct Control units
** Only required for Direct Control units
*** Single phase only
**** Not shown in exploded views

MODEL RRS



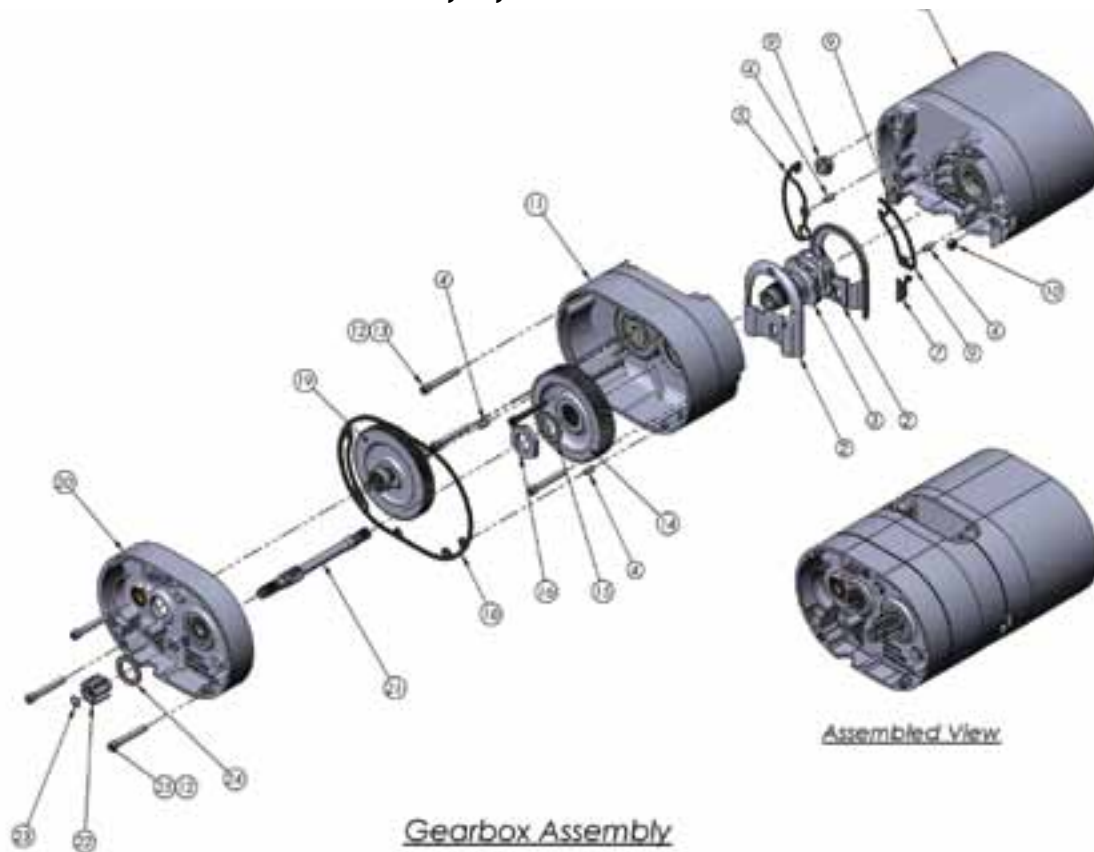
Item No.	Description	Part Number	STANDARD QTY.	D8+ QTY.	DIRECT CONTROL QTY.	D8+ DIRECT CONTROL QTY.
1	GEARBOX ASSEMBLY-BLACK	10001000B		1		
2	CLUTCH ASSEMBLY-V2-1 HP	00000242	-	1	-	1
	CLUTCH ASSEMBLY-V2-2 HP	00000243	1	-	1	-
3	MOTOR - 230/460V-WITH PLUG	10001023	1		-	
	MOTOR - 230/460V	10001040		-		1
4	EMPTY	-		-		
5	EMPTY	-		-		
6	GASKET-MOTOR COVER	10001019		1		
7	EMPTY	-		-		
8	LOCKWASHER	982226		4		
9	MOTOR MOUNTING SCREW	87334		4		
10	CONTACTOR PLATE ASSEMBLY	See Contactor Plate Section		1		
11	CONTACTOR PLATE MOUNTING SCREWS	983656		3		
12	EMPTY	-		-		
13	EMPTY	-		-		
14	BRAKE ASSEMBLY	See Brake Section		1		
14a	BRAKE HUB SPACER	00001433	1	2	1	2
14b	BRAKE HUB	00001431	1	2	1	2
14c	BRAKE HUB SNAP RING	10409711		1		
15	LOCKWASHER	945851		2		
16	BRAKE MOUNTING SCREW	982709		2		
17	EMPTY	-		-		
18	BACKFRAME COVER GASKET	00000236		1		

Item No.	Description	Part Number	STANDARD QTY.	D8+ QTY.	DIRECT CONTROL QTY.	D8+ DIRECT CONTROL QTY.
19	EMPTY	-	-	-	-	-
20	LIMIT SWITCH SHAFT S/A - 44 TPI	00000524	1	-	-	-
	LIMIT SWITCH SHAFT S/A - 56 TPI	00000526				
	LIMIT SWITCH SHAFT S/A - 64 TPI	00000528				
21	LIMIT SWITCH SHAFT SPRING	35703	1	-	-	-
22	EMPTY	-	-	-	-	-
23	LIMIT SWITCH BEARING	35751	2	-	-	-
24	LIMIT SWITCH BEARING SCREWS	983656	2	-	-	-
25	LIMIT SWITCH BRACKET S/A	36827	1	-	-	-
26	LIMIT SWITCH BRACKET SCREWS	983656	2	-	-	-
27	LIMIT SWITCH GUIDE PLATE	28714	1	-	-	-
	LIMIT SWITCH GUIDE - ROTATABLE (NOT SHOWN)	52500				
28	LIMIT SWITCH GUIDE PLATE MOUNTING SCREWS	983614	2	-	-	-
29	TERMINAL STRIP S/A (230/460V-3Ø)	0000534	1	-	-	-
30	MOTOR COVER	36025B	-	1	-	-
31	BACK FRAME COVER	36008B	-	1	-	-
32	BACK FRAME COVER PINS	983784	-	4	-	-
33	MOTOR COVER SCREW	987553	-	2	-	-
34	WASHER	982251	-	6	-	-
35	SCREW RETAINER	00001747	-	6	-	-
36	BACK FRAME COVER SCREW	968752	-	4	-	-
37	HOLE PLUG	00000574	-	4	-	-
38	SUSPENSION RETAINER SCREW	10001047	-	1	-	-
39	SUSPENSION RETAINER NUT	82638	-	1	-	-
40	UPPER SUSPENSION ASSEMBLY	SEE Page 42	-	1	-	-
41	WIRING HARNESS (230/460V-3Ø, CONTACTOR CTRL)	00001547	1	-	-	-
42	PUSH WIRE CONNECTOR (NOT SHOWN)	11782704	-	-	5	7
43	EMPTY	-	-	-	-	-
44	SERIES LABEL	00000781	-	1	-	-
45	CAPACITY LABEL-1000KG	00000215	-	1	-	-
	CAPACITY LABEL-2000KG	00000776	1	-	1	-
46	POWER CORD (DIRECT CONTROL)	00000740	-	-	1	-
	POWER CORD (CONTACTOR CONTROL)	00000742	1	-	-	-
47	CONTROL CORD	00000744	1	-	-	-
48	CONTROL CORD HOLE PLUG (NOT SHOWN)	27891	-	-	1	-
49	GROUND SCREW	987827	-	2	-	-
50	LOCKWASHER	982226	-	2	-	-
51	CHAIN CONTAINER BRACKET	10001041	-	1	-	-
52	WASHER	10001043	-	2	-	-
53	SCREW	982433	-	2	-	-
54	LOWER HOOK ASSEMBLY	10001052	-	1	-	-
55	CHAIN BLOCK KIT	10001029	-	1	-	-
56	CHAIN STARTER LINK (NOT SHOWN)	85960LEL	-	1	-	-
57	LOAD CHAIN, ZINC PLATED	85960EN	-	REQ'D LIFT + 3FT		
58	BEARING RETAINER SCREW (NOT SHOWN)	10565301	-	-	1	-
59	BEARING RETAINER WASHER (NOT SHOWN)	987878	-	-	1	-
60	BEARING RETAINER LOCKWASHER (NOT SHOWN)	982226	-	-	1	-
61	FUSE CARTRIDGE*	29019	2	-	-	-
62	FUSE 1A*	00000394	2	-	-	-
63	SHUNT**	2907	2	-	-	-

*Required for fuse protection of the transformer primary coil on contactor controlled hoists

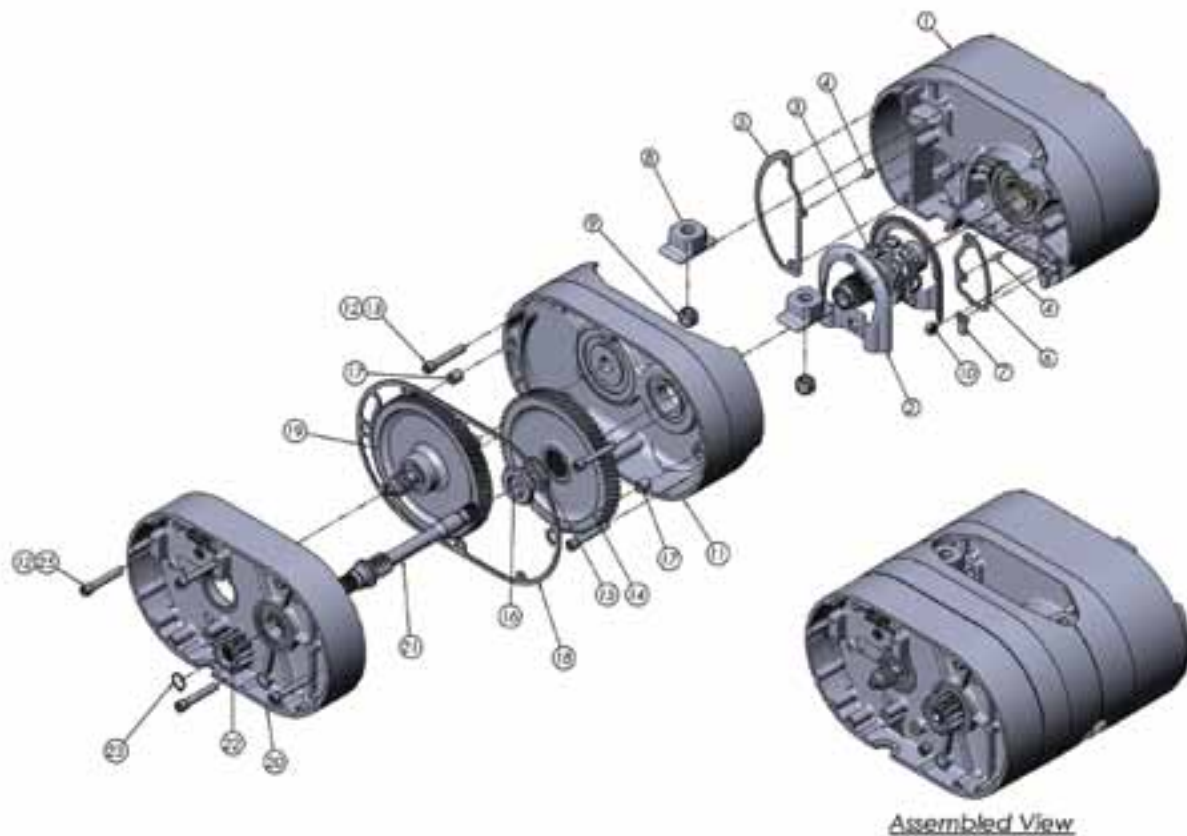
**Shunts may be used in place of fuse & fuse cartridge, where allowable by applicable electrical codes

GEARBOX ASSEMBLY MODELS B, C, & F



Item No.	Description	DC BRAKE TYPE			Qty.
		Model B	Model C	Model F	
1	GEARBOX SUB-ASSEMBLY	00000832B	00000833B	00000834B	1
1.1	MOTOR HOUSING SUB-ASSY		00000504B		1
1.2	CHAIN GUIDE		00000232		2
1.3	LIFT-WHEEL		00000500		1
1.4	DOWEL PIN		82354		4
1.5	GASKET-MOTOR HOUSING WIREWAY		00000189 1		
1.6	GASKET MOTOR HOUSING		00000190		1
1.7	GASKET MOTOR HOUSING		00000191		1
1.8	EMPTY		-		-
1.9	SUSPENSION NUT		927755		2
1.10	LOOSE END NUT		82638		1
1.11	GEAR HOUSING SUB-ASSY	00000502B	00000503B	00000502B	1
1.12	LOCKWASHER		940802		7
1.13	GEAR HOUSING SCREW		28830		4
1.14	LIFT-WHEEL GEAR	00000161 (59TEETH)	00000160 (45TEETH)	00000161 (59TEETH)	1
1.15	LOCKWASHER		00000199		1
1.16	LIFT-WHEEL NUT		00000198		1
1.17	EMPTY		-		-
1.18	GEAR HOUSING GASKET		00000188		1
1.19	INTERMEDIATE SHAFT SUB-ASSY	00000155 (88TEETH/8TEETH)	00000156 (88TEETH/1 2TEETH)	00000155 (88TEETH/ 8TEETH)	1
1.20	BACKFRAME SUB-ASSY		00000505B		1
1.21	DRIVE SHAFT		00000819 (10 TEETH)		1
1.22	BRAKE HUB NOT INCLUDED WITH GEARBOX		See Brake Section		1
1.23	RETAINING RING NOT INCLUDED WITH GEARBOX		See Brake Section		1
1.24	BEARING SPACER NOT INCLUDED WITH GEARBOX		See Brake Section		1
1.25	BACKFRAME SCREW		982699		3

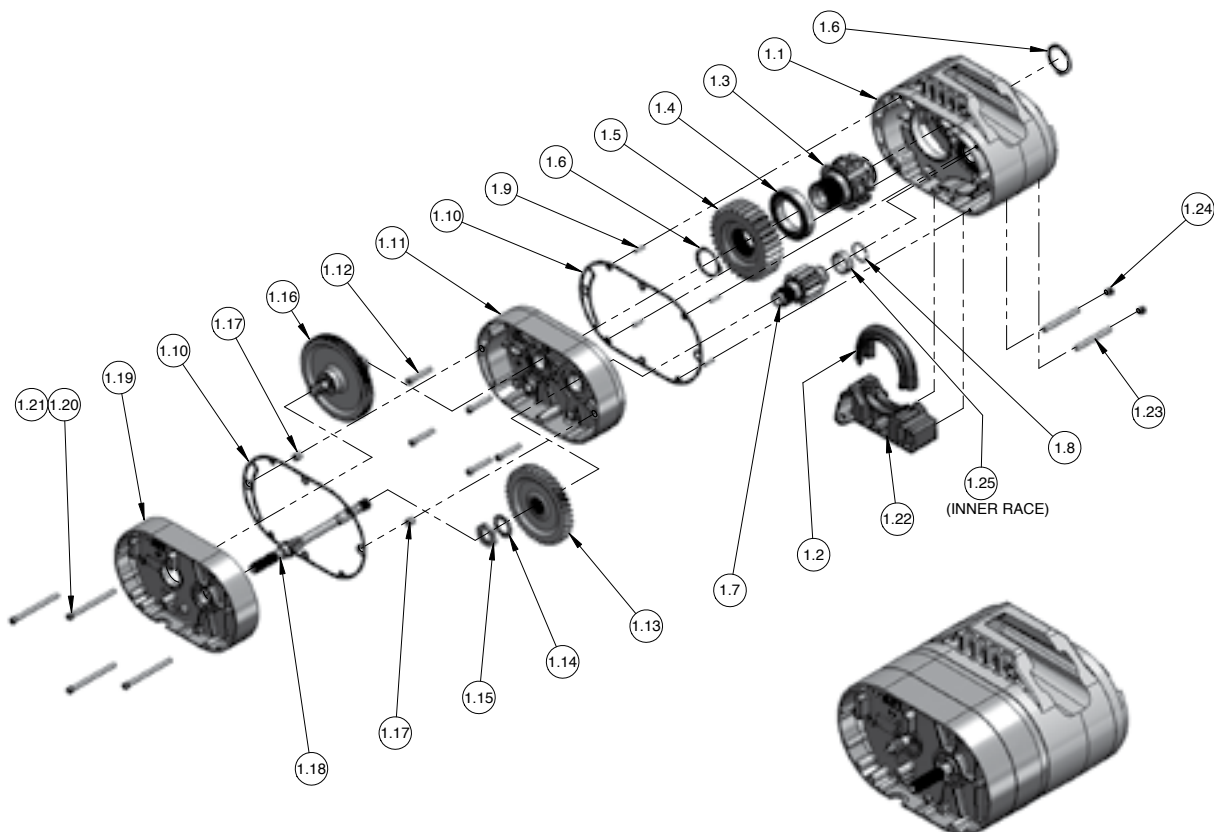
GEARBOX ASSEMBLY MODELS J, L, LL, R, & RR



Item No.	Description	DC BRAKE TYPE			Qty.
		Model B	Model C	Model F	
1	GEARBOX SUB-ASSEMBLY	00000845B	00000847B	00000845B	1
1.1	MOTOR HOUSING SUB-ASSY	00000509B			1
1.2	CHAIN GUIDE	00000235			2
1.3	LIFT-WHEEL	00000501			1
1.4	DOWEL PIN 82354 82354	2			
1.5	GASKET-MOTOR HOUSING WIREWAY	00000193			1
1.6	GASKET MOTOR HOUSING	00000194			1
1.7	GASKET MOTOR HOUSING	00000549			1
1.8	SUSPENSION ANCHOR	35066			2
1.9	SUSPENSION NUT	935791			2
1.10	LOOSE END NUT	82639			1
1.11	GEAR HOUSING SUB-ASSY	00000507B			1
1.12	LOCKWASHER	940830			8
1.13	GEAR HOUSING SCREW	982682			8
1.14	LIFT-WHEEL GEAR	00000163 (66 TEETH)			1
1.15	LOCKWASHER	986276			1
1.16	LIFT-WHEEL NUT	35773			1
1.17	ALIGNMENT BUSHING	35768			2
1.18	GEAR HOUSING GASKET	00000192 1			
1.19	INTERMEDIATE SHAFT SUB-ASSY	00000146 (47 TEETH/ 8 TEETH)	00000171 (92 TEETH/ 8TEETH)	00000146 (47 TEETH/ 8 TEETH)	1
1.20	BACKFRAME SUB-ASSY	00000510B			1
1.21	DRIVE SHAFT	00000821 (10 TEETH)	00000820 (10 TEETH)	00000821 (10 TEETH)	1
1.22	BRAKE HUB	See Brake Section			1
1.23	RETAINING RING	See Brake Section			1

MODEL RRS GEARBOX

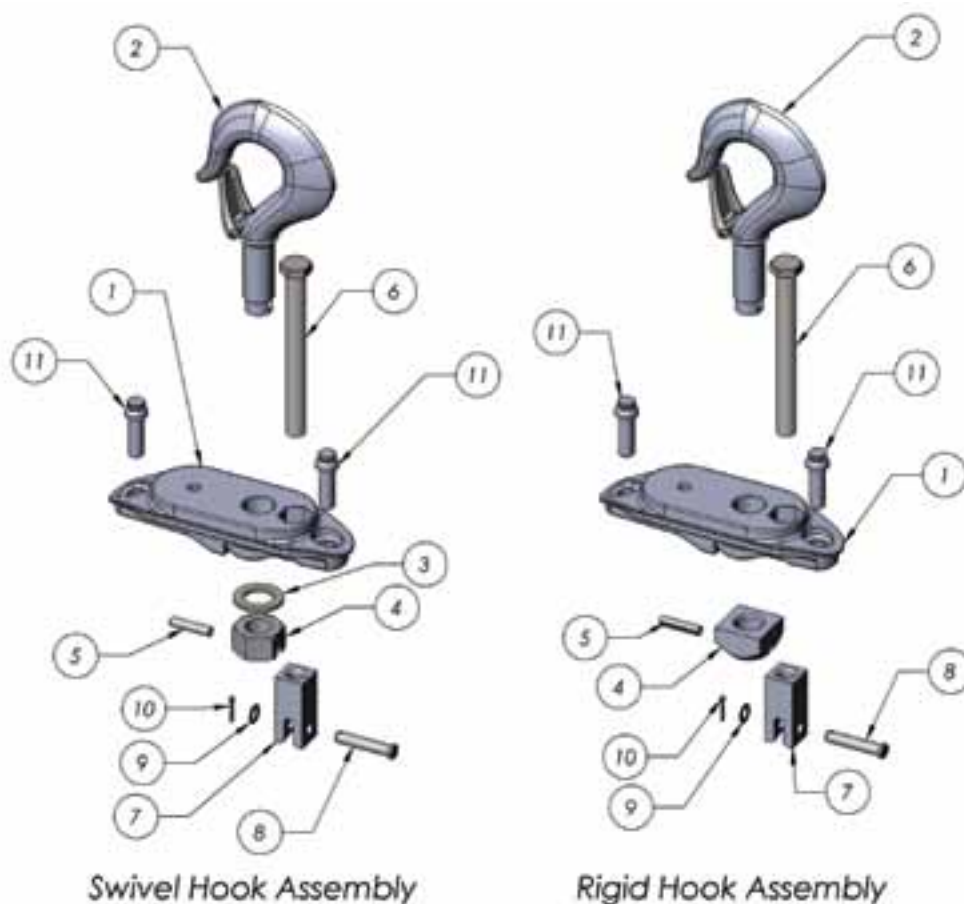
GEARBOX ASSEMBLY MODEL RRS



ASSEMBLED VIEW

Item No.	Description	Part Number	Qty.
1	GEARBOX ASSEMBLY	10001000B	1
1.1	MAIN FRAME SUB ASSEMBLY-ORANGE	10001001B	1
1.2	CHAIN GUIDE	10001004	1
1.3	LIFTWHEEL-5PKT-10MM X 30MM	10001074	1
1.4	RADIAL BALL BEARING	10001017	1
1.5	GEAR-33T	10001006	1
1.6	RETAINING RING-EXTERNAL	10001108	2
1.7	PINION SUB-ASSY-12T	10001007	1
1.8	RETAINING RING-EXTERNAL	10001107	1
1.9	SPRING PIN	983784	4
1.1	GASKET-GEAR HOUSING-V2	00000192	2
1.11	INT. FRAME-SUB-ASSY-ORANGE	10001009B	1
1.12	SCREW	982682	5
1.13	GEAR - 42 TEETH	00000162	1
1.14	WASHER-LOCK-EXT TOOTH	986276	1
1.15	NUT	35773	1
1.16	SHAFT SUB-ASSY 10T/92T	10001011	1
1.17	DOWEL, BACK FRAME	35768	2
1.18	DRIVE SHAFT-10T	10001012	1
1.19	V2 BACKFRAME S/A-ORANGE	00000510B	1
1.2	SCREW	80409	4
1.21	LOCKWASHER	940830	4
1.22	CHAIN CHUTE-MACHINED-BLACK	10001014B	1
1.23	DOWEL PIN	10001038	2
1.24	SET SCREW	10001045	2
1.25	CYLINDRICAL ROLLER BEARING	10001016	1

UPPER SUSPENSIONS

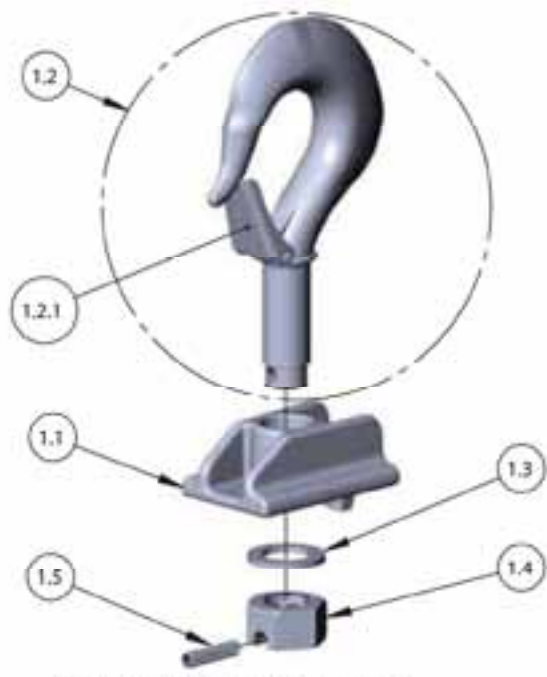


Item No.	Description	V1-SMALL FRAME PART NUMBERS	V2-LARGE FRAME PART NUMBERS		Qty.
		MODELS B, C & F	MODELS J, L & LL	MODELS R & RR	
1	SWIVEL SUSPENSION ASSEMBLY - W/ LATCH TYPE HOOK	2792NH	3661NH	3660NH	1
	SWIVEL SUSPENSION ASSEMBLY - W/ LATCHLOK TYPE HOOK	2796NH	3662NH	3663NH	
	RIGID SUSPENSION ASSEMBLY - W/ LATCH TYPE HOOK	2788NH	3651NH	3658NH	
	RIGID SUSPENSION ASSEMBLY - W/ LATCHLOK TYPE HOOK	2790NH	3652NH	-*	
1.1	SUSPENSION ADAPTER	00000218B	00000220B	00000221B	1
1.2	UPPER HOOK SUB-ASSEMBLY - LATCH TYPE	28689B	35617B	35616B	1
	UPPER HOOK SUB-ASSEMBLY - LATCHLOK TYPE	28643	36678	36680	
1.2.1	LATCH KIT	45661	45662	45663	-**
1.3	THRUST WASHER (FOR SWIVEL SUSPENSIONS ONLY)	27786	45930	45918	1
1.4	UPPER HOOK COLLAR FOR SWIVEL SUSPENSIONS	27350	35042	35041	
	UPPER HOOK COLLAR FOR RIGID HOOK AND LUG SUSPENSIONS	27372	35458	35426	1
1.5	SPRING PIN	27805	983764	983762	1
1.6	DEAD END BOLT	-	-	35957	1
1.7	DEAD END BLOCK	-	-	35418	1
1.8	DEAD END PIN	-	-	82314	1
1.9	WASHER	-	-	987877	1
1.10	COTTER PIN	-	-	988330	1
1.11	SUSPENSION SCREW	987554	36849	36849	2

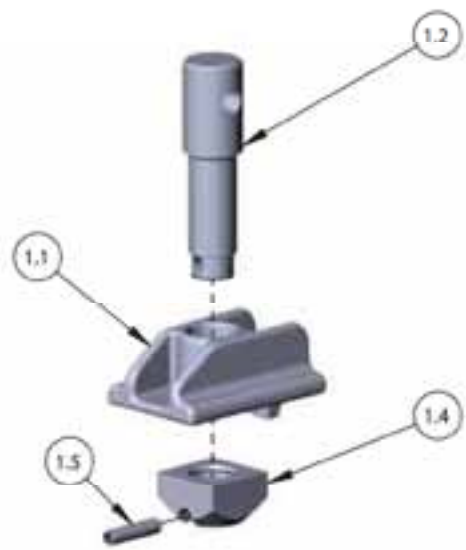
*Contact factory for Latchlok hooks and assemblies

**Latch Type hooks assemblies come with latches installed

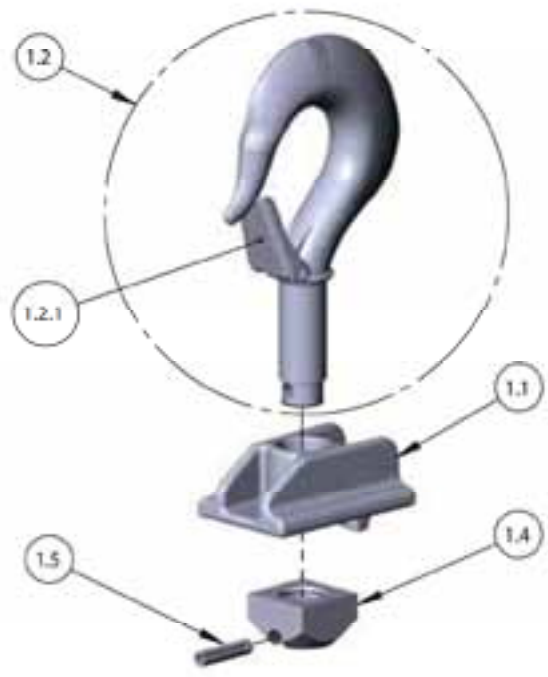
UPPER SUSPENSIONS



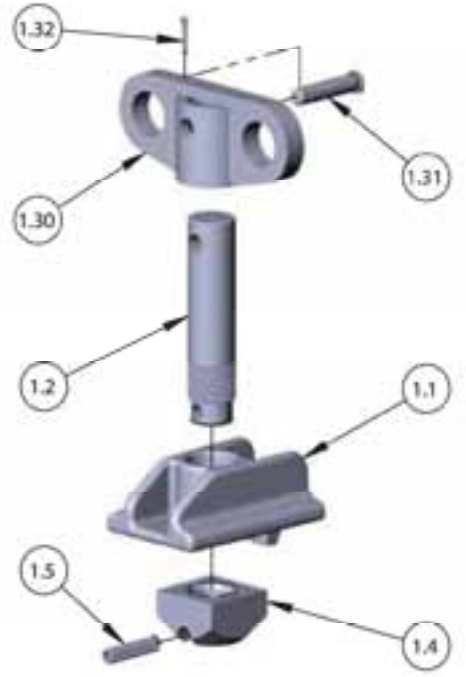
SWIVEL HOOK ASSEMBLY



LUG ASSEMBLY



RIGID HOOK ASSEMBLY



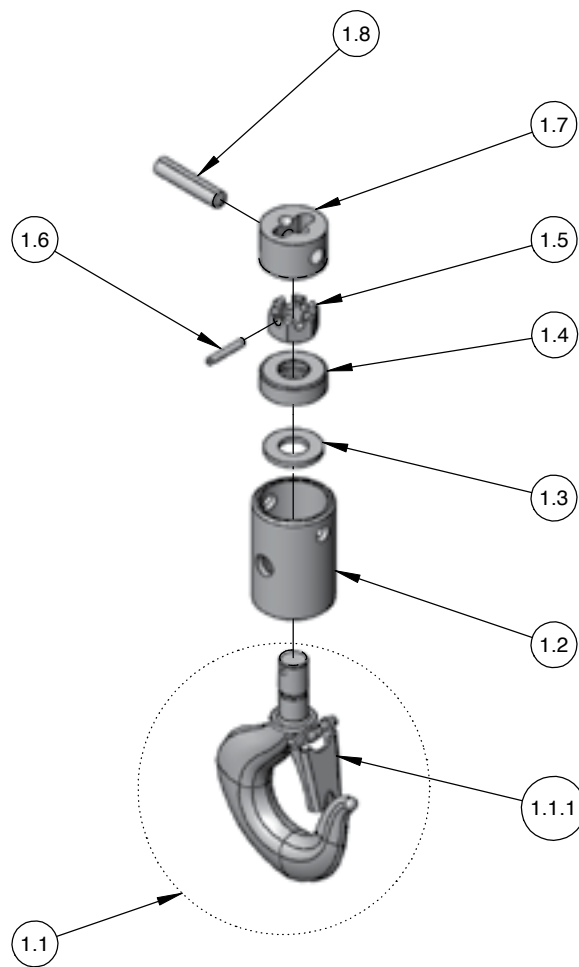
UNIVERSAL TROLLEY LUG ASSEMBLY

Item No.	Description	Part Numbers	Qty.
1	SWIVEL SUSPENSION ASSEMBLY - W/ LATCH TYPE HOOK	10001100	1
	SWIVEL SUSPENSION ASSEMBLY - W/ LATCHLOK TYPE HOOK	—*	
	RIGID SUSPENSION ASSEMBLY - W/ LATCH TYPE HOOK	10001101	
	RIGID SUSPENSION ASSEMBLY - W/ LATCH TYPE HOOK CROSS MOUNT	10001101X	
	RIGID SUSPENSION ASSEMBLY - W/LATCHLOK TYPE HOOK	—*	
	LUG SUSPENSION FOR LOW HEADROOM OR MOTOR DRIVEN TROLLEY	10001103	
	LUG SUSPENSION FOR LOW HEADROOM OR MOTOR DRIVEN TROLLEY CROSS MOUNT	10001103X	
	LUG SUSPENSION FOR UNIVERSAL TROLLEY	10001104	
	LUG SUSPENSION FOR UNIVERSAL TROLLEY CROSS MOUNT	10001104X	
1.1	SUSPENSION ADAPTER	10001050B	1
1.2	UPPER HOOK SUB-ASSEMBLY - LATCH TYPE	35616B	1
	UPPER HOOK SUB-ASSEMBLY - LATCHLOK TYPE	36680	
	SUSPENSION LUG FOR LOW HEADROOM OR MOTOR DRIVEN TROLLEY	35457	
	SUSPENSION LUG FOR UNIVERSAL TROLLEY	002508	
1.2.1	LATCH KIT	45663	1**
1.3	THRUST WASHER (FOR SWIVEL SUSPENSIONS ONLY)	35426	1
1.4	UPPER HOOK COLLAR FOR SWIVEL SUSPENSIONS	35041	1
	UPPER HOOK COLLAR FOR RIGID HOOK AND LUG SUSPENSIONS	45918	
1.5	SPRING PIN	983762	1
1.6	DEAD END BOLT	35957	1
1.7	DEAD END BLOCK	35418	1
1.8	DEAD END PIN	82314	1
1.9	WASHER	987877	1
1.10	COTTER PIN	988330	1
1.11	SUSPENSION SCREW	36849	2
1.30	LUG ADAPTER	00002503	1
1.31	LUG ADAPTER PIN	00002504	1
1.32	COTTER PIN	H5025P	1

*Contact factory for Latchlok hooks and assemblies

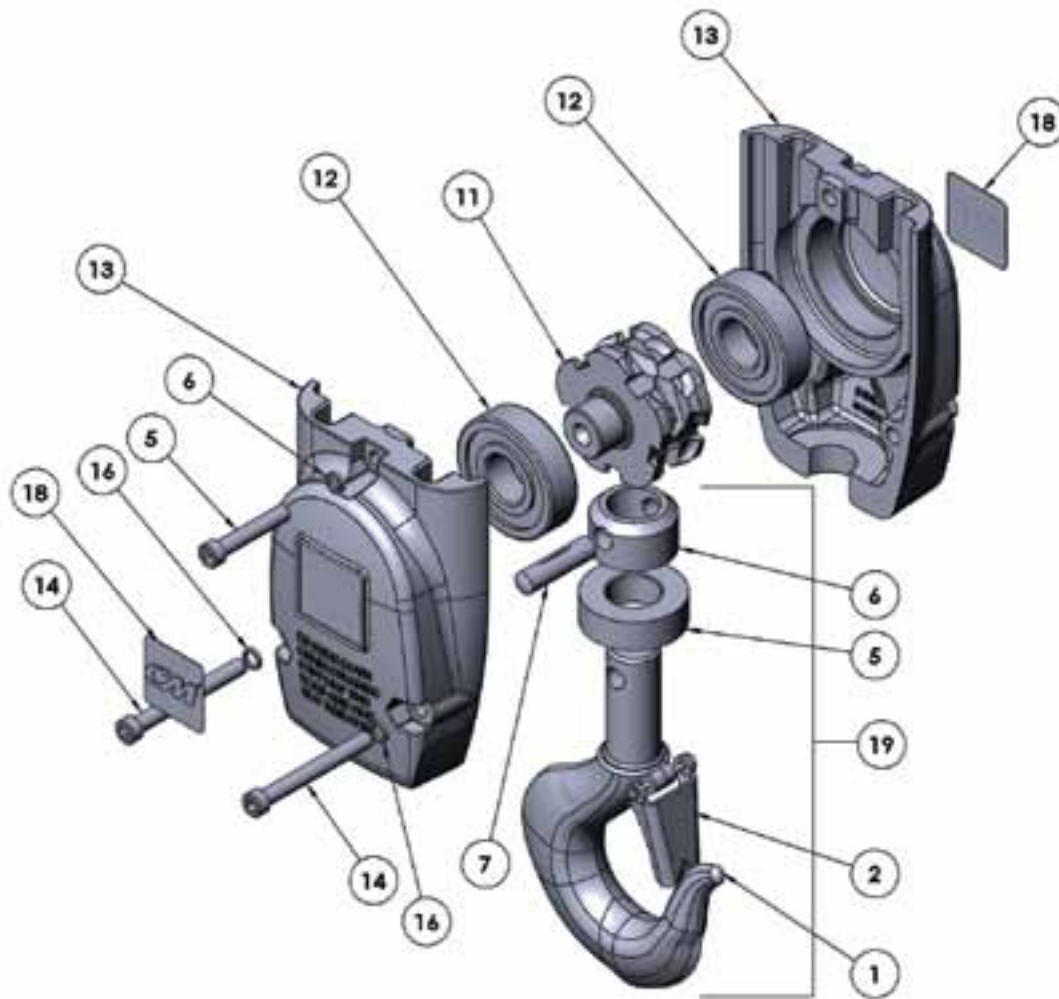
**Latch Type hooks assemblies come with latches installed

LOWER HOOK BLOCKS SINGLE REEVED



Item No.	Description	SINGLE-REEVED MODELS			Qty.
		A, A-2, AA, AA-2, B, B-2, C, C-2, F, F-2	J, J-2, L, L-2, LL, LL-2	RRS	
1	LOWER HOOK BLOCK ASSEMBLY-COMPLETE WITH LATCH TYPE HOOK	*28683	*35651	*10001052	1
1.1	LOWER HOOK WITH LATCH	28686	35611	35612B	1
	LATCHLOK TYPE HOOK	28604	28604	36681	
1.1.1	LATCH KIT	45661	45662	45663	1
1.2	LOWER HOOK BODY	45401B	35370	45399B	1
1.3	LOWER HOOK WASHER	945921	945921	N/A	1
1.4	LOWER HOOK THRUST BEARING	88485	88485	88505	1
1.5	LOWER HOOK NUT	982526	982526	35369	1
1.6	LOWER HOOK NUT PIN	983772	983772	45946	1
1.7	LOWER HOOK CHAIN BLOCK	28007	35026	10001054	1
1.8	LOWER HOOK CHAIN BLOCK PIN	45943	35790	45948	1

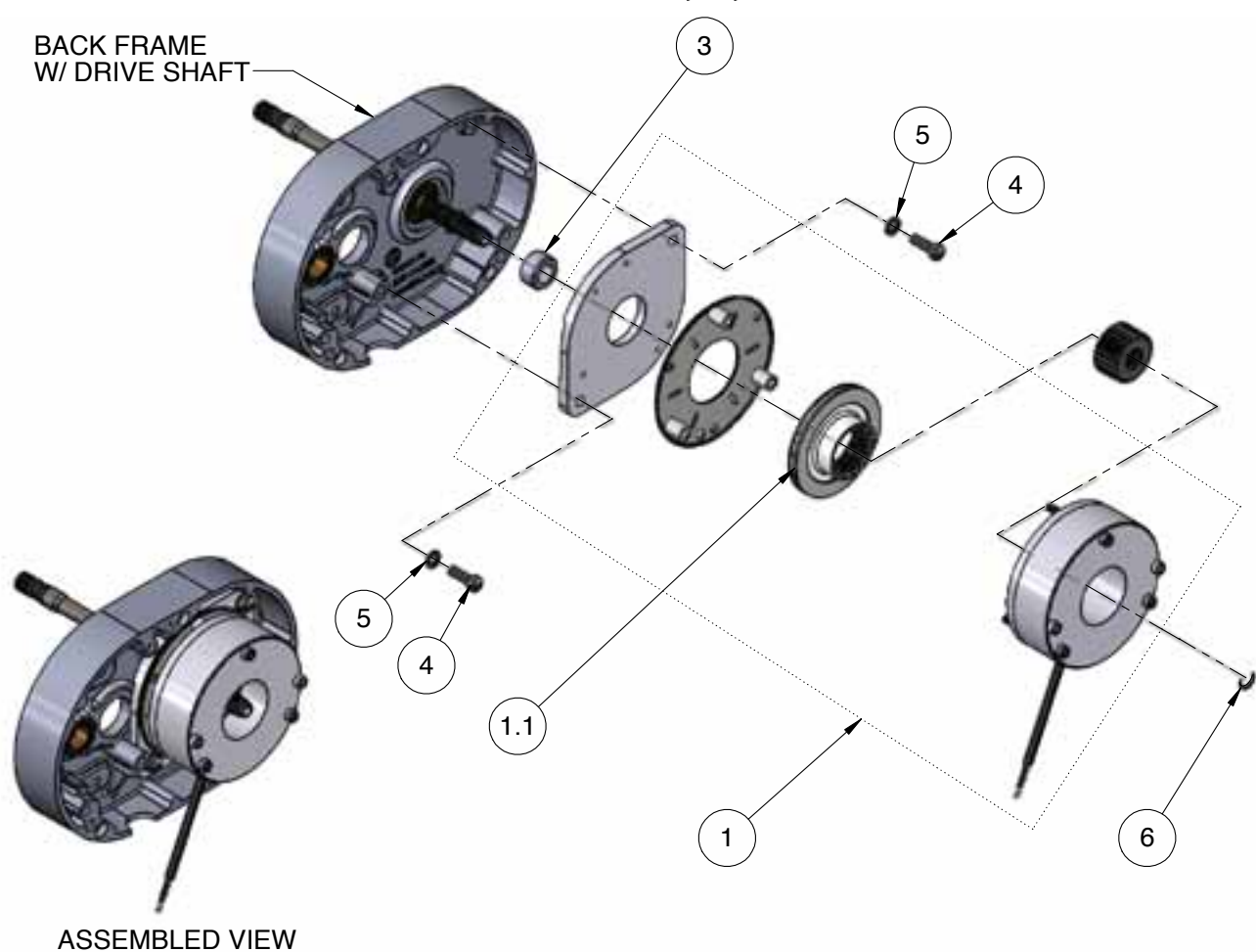
LOWER HOOK BLOCKS DOUBLE REEVED



Item No.	Description	MODELS R & RR	Qty.
1	LOWER HOOK BLOCK ASSEMBLY-COMPLETE WITH LATCH TYPE HOOK	*00000277B	1
1.1	LOWER HOOK ASSEMBLY WITH LATCH AND BRG	35645	1
	LATCHLOK TYPE HOOK ASSEMBLY WITH BRG	_*	
1.1.1	LOWER HOOK WITH LATCH	35612B	1
	LATCHLOK TYPE HOOK	36681	
1.1.1.1	LATCH KIT	45663	1
1.1.2	LOWER HOOK THRUST BEARING	88505	1
1.1.3	LOWER HOOK COLLAR	35369	1
1.1.4	LOWER HOOK PIN	45946	1
1.2	HOOK BLOCK (ORDER IN PAIRS)	00000276B	2
1.3	HOOK BLOCK SHEAVE	00000274	1
1.4	HOOK BLOCK SHEAVE BEARING	83674	2
1.5	HOOK BLOCK SCREW-LONG	982374	2
1.6	HOOK BLOCK SCREW-SHORT	982370	1
1.7	HOOK BLOCK LOCKWASHER	940830	3
1.8	HOOK BLOCK NUT	982445	3
1.9	HOOK BLOCK LABEL	00000766	2

* Contact CM for LatchLok part numbers

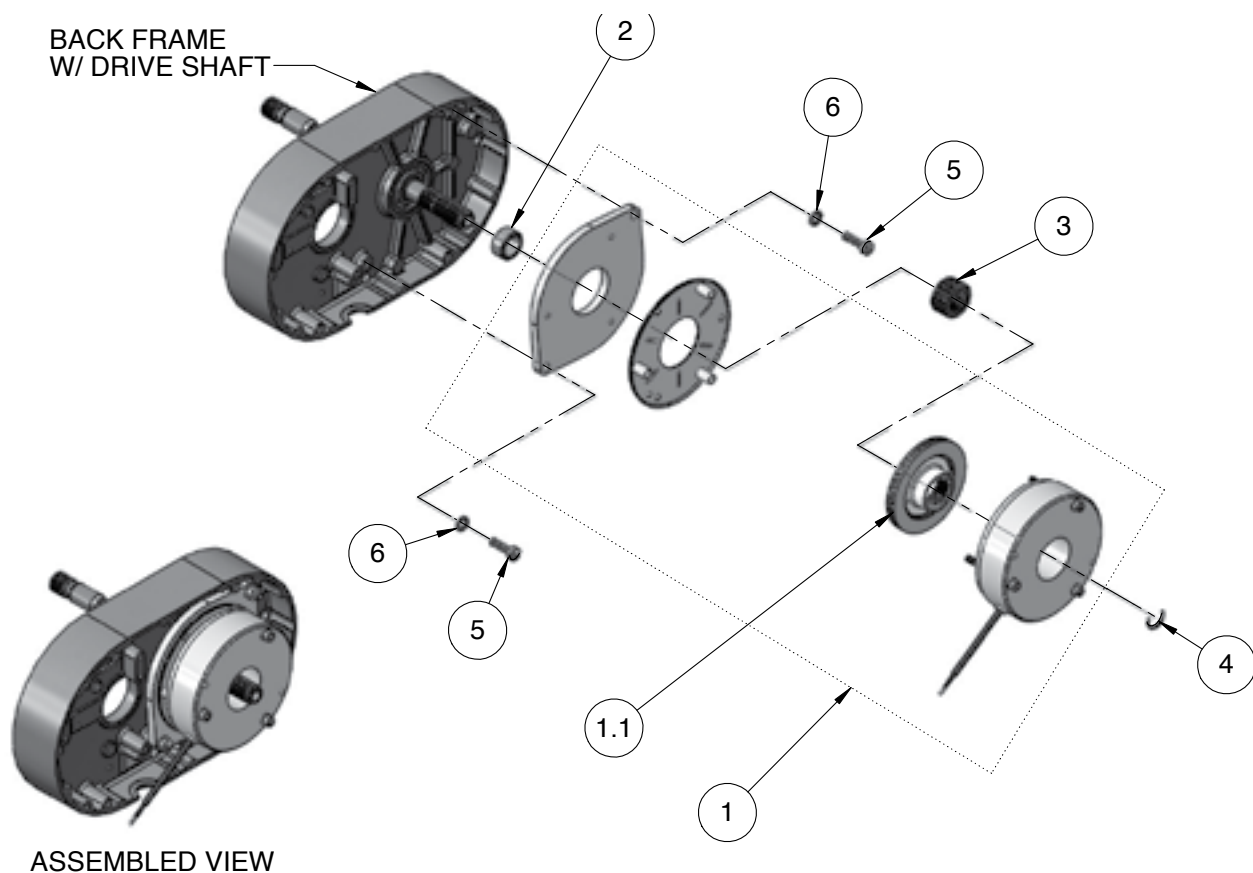
LODESTAR DC BRAKE SINGLE MODELS B, C, & F



BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
10001243	110/115 -1-50/60	103VDC
10001244	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V1 LODESTAR SIZE 8	1
1.1	10001252	V1 LODESTAR, SIZE 8 ROTOR	1
2	00001430	V1 LODESTAR, SIZE 8 HUB	1
3	00001432	HUB SPACER V1 DC BRAKE	1
4	982708	SCREW 1/4-20 X .75" SL FIL HD	2
5	982226	LOCKWASHER 1/4 X .109 X .062"	2
6	10409710	ROTOR CLIP RETAINING RING	1

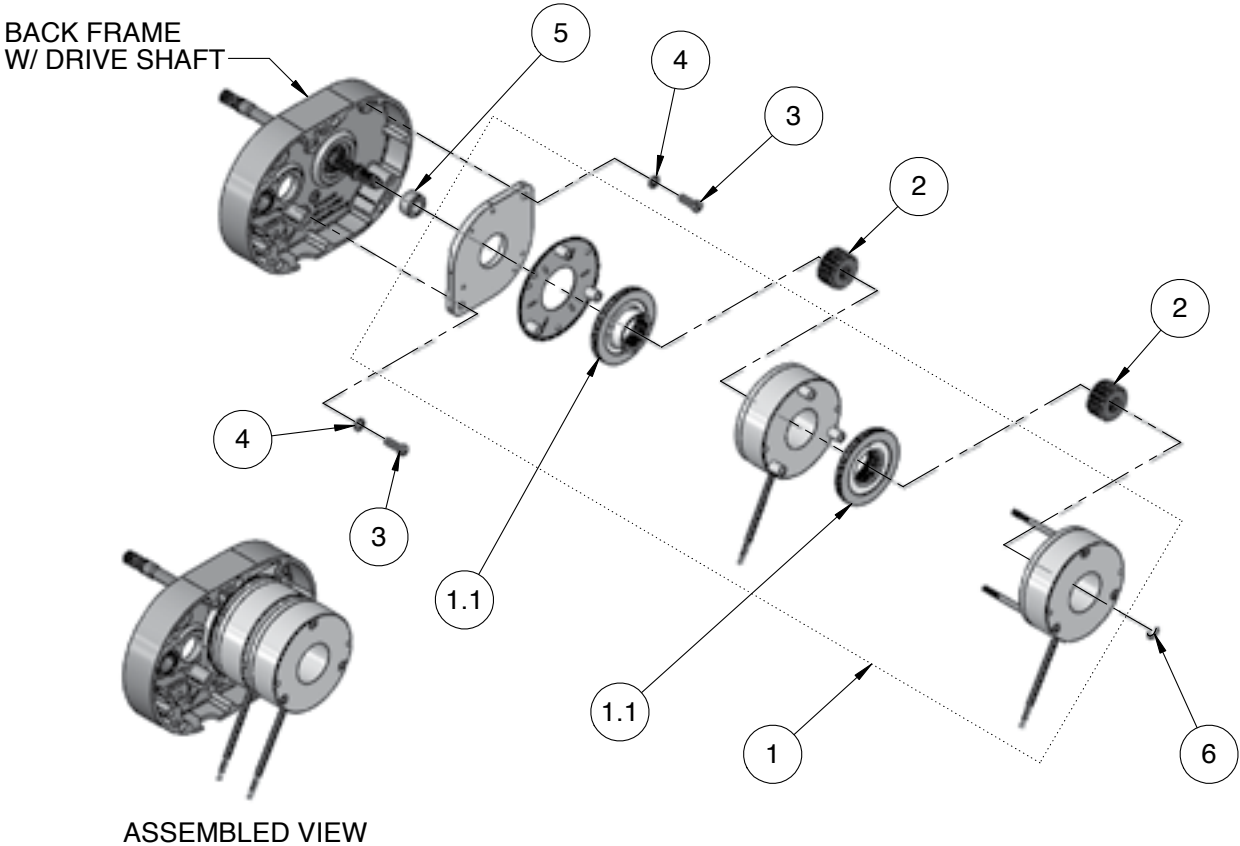
LODESTAR DC BRAKE SINGLE MODELS J, L, LL, R & RR



HOIST MODEL	BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
J, L, R	10001246	110/115-1-50/60 220/230-1-50/60	103VDC
	10001247	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC
LL, RR	10001249	220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V2 LODESTAR SIZE 10 BRAKE	1
1.1	10001253	V2 LODESTAR, SIZE 10 ROTOR	1
2	00001431	HUB SPACER, V2 DC IN TORQ BRAKE	1
3	00001433	V2 LODESTAR, SIZE 10 HUB	1
4	10409711	ROTOR CLIP RETAINING RING	1
5	982709	SCREW 5/16-18 UNC-2A X 1"	2
6	945851	LOCKWASHER 5/16 X .125 X .078"	2

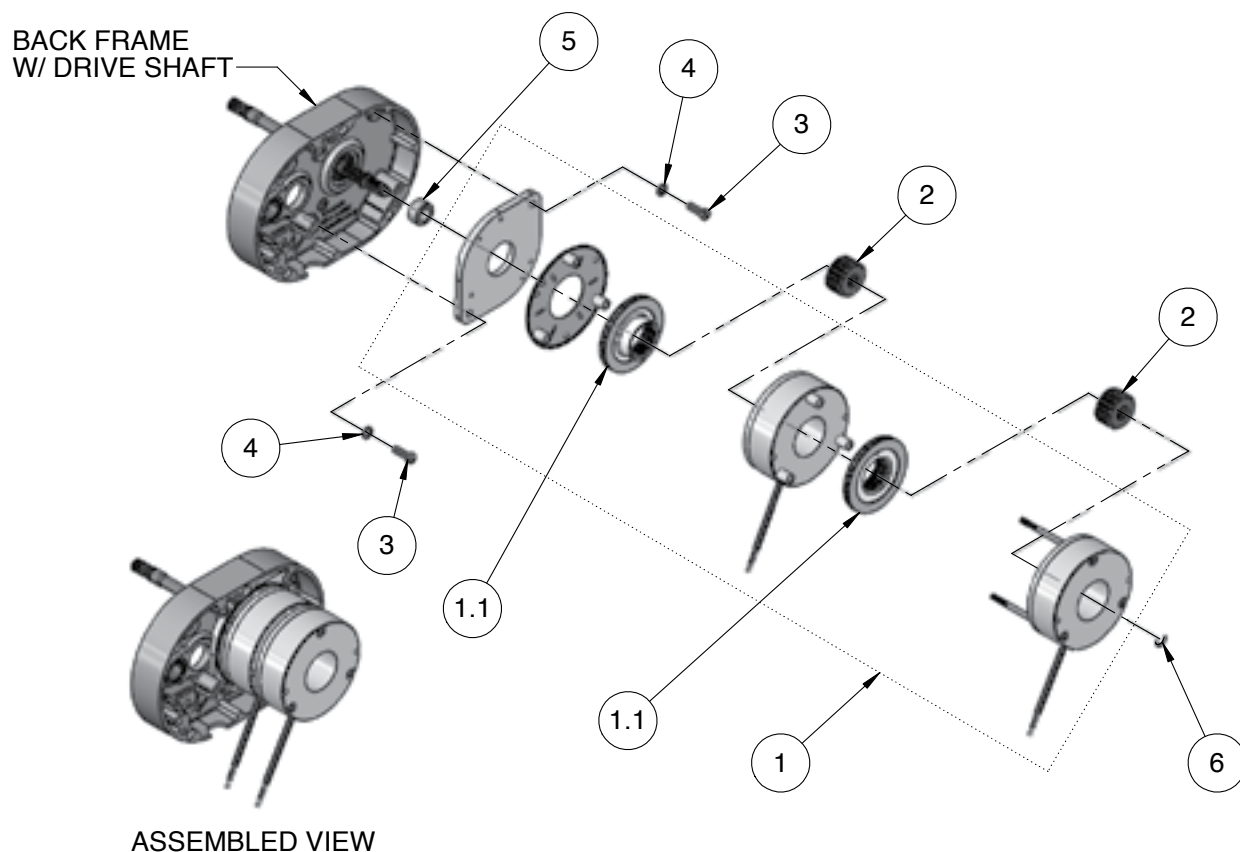
LODESTAR DC BRAKE DOUBLE MODELS B, C, & F



BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
10001450	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V1 LODESTAR, SIZE 8 DOUBLE	1
1.1	10001252	V1 LODESTAR, SIZE 8 ROTOR	2
2	00001430	V1 LODESTAR, SIZE 8 HUB	2
3	982708	SCREW 1/4-20 X .75" SL FIL HD	2
4	982226	LOCKWASHER 1/4 X .109 X .062"	2
5	00001432	HUB sPACER V1 DC BRAKE	1
6	27766	RING, SNAP WALDES 5100-40PP	1

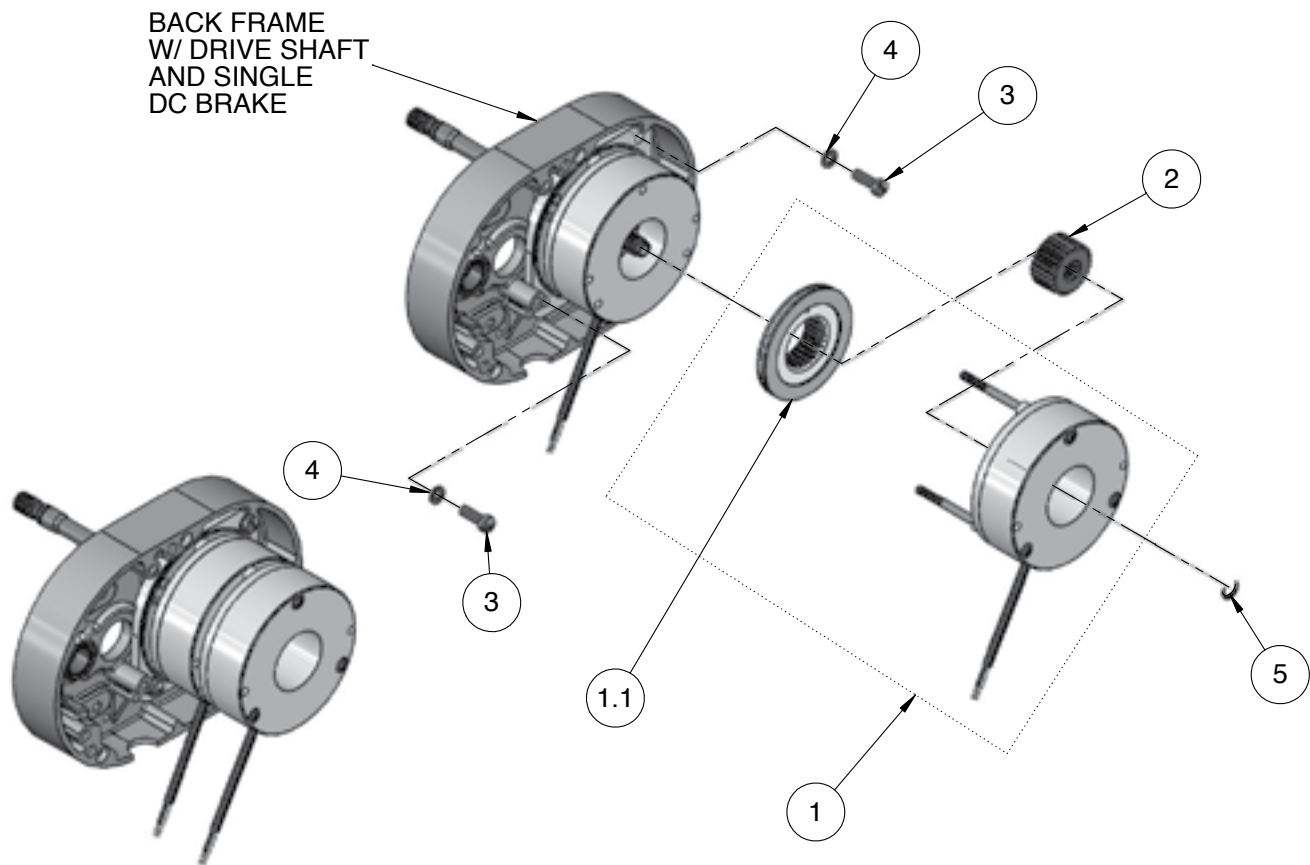
LODESTAR DC BRAKE DOUBLE MODELS J, L, LL, R & RR



HOIST MODEL	BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
J, L, R	10001450	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC
LL, RR	10001452	220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V2 LODESTAR SIZE 10 DOUBLE BRAKE	1
1.1	10001253	V2 LODESTAR, SIZE 10 ROTOR	2
2	00001433	HUB SPACER V2 DC INTORQ BRAKE	2
3	00001431	V2 LODESTAR, SIZE 10 HUB	2
4	35766	RETAINING RING - 5100-68	1
5	982709	SCREW 5/16-18 UNC-2A X 1"	2
6	945851	LOCKWASHER 5/16 X .125 X .078"	2

LODESTAR DC BRAKE - SINGLE TO DOUBLE CONVERSION MODELS B, C, & F

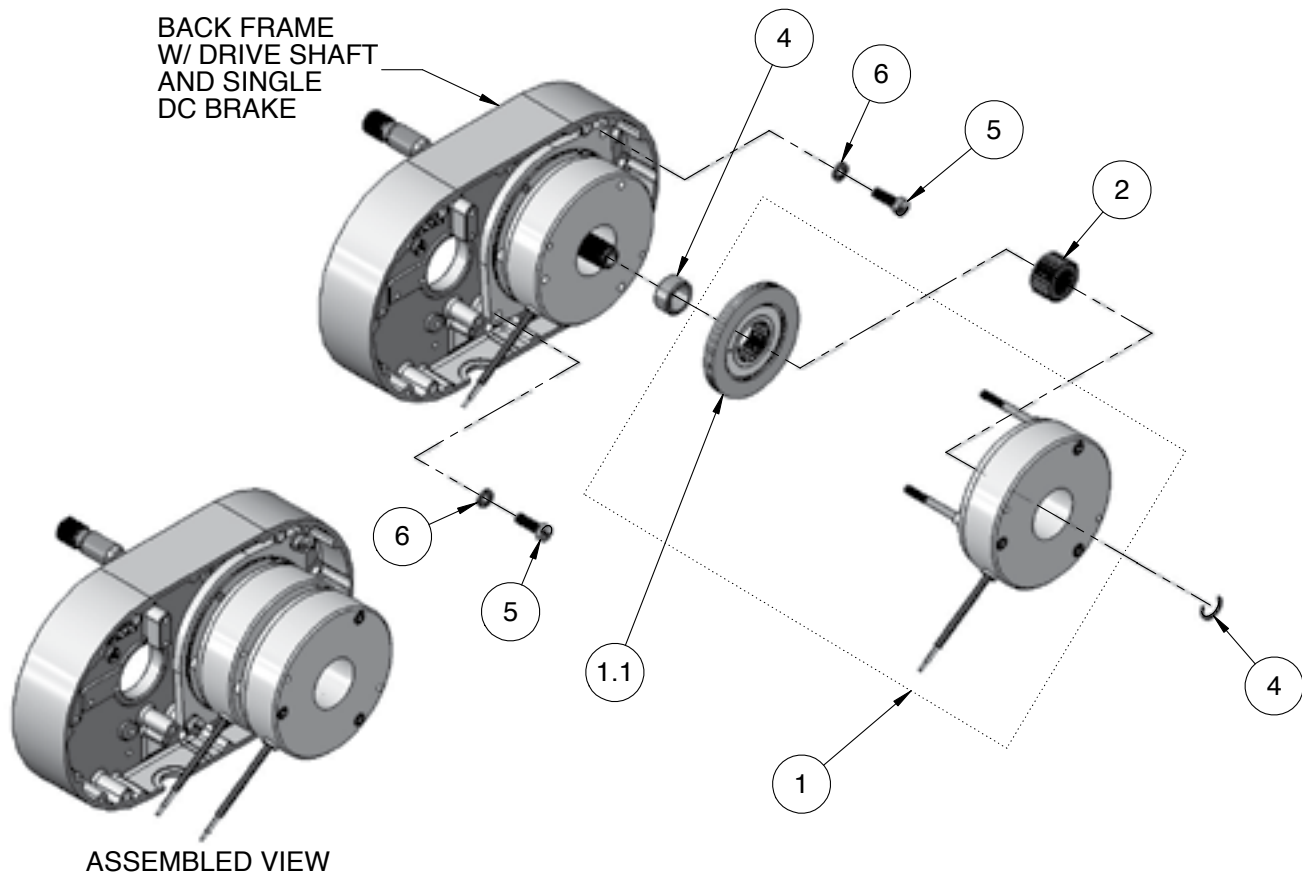


ASSEMBLED VIEW

BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
10001454	110/115-1-50/60	103VDC
10001455	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V1 LODESTAR, SIZE 8	1
1.1	10001252	V1 LODESTAR, SIZE 8 ROTOR	1
2	00001430	V1 LODESTAR, SIZE 8 HUB	2
3	982708	SCREW 1/4-20 X .75 SL FIL. HD.	2
4	982226	LOCKWASHER 1/4 X .109 X .62"	2
5	27766	RING, SNAP WALDES 5100-40PP	1

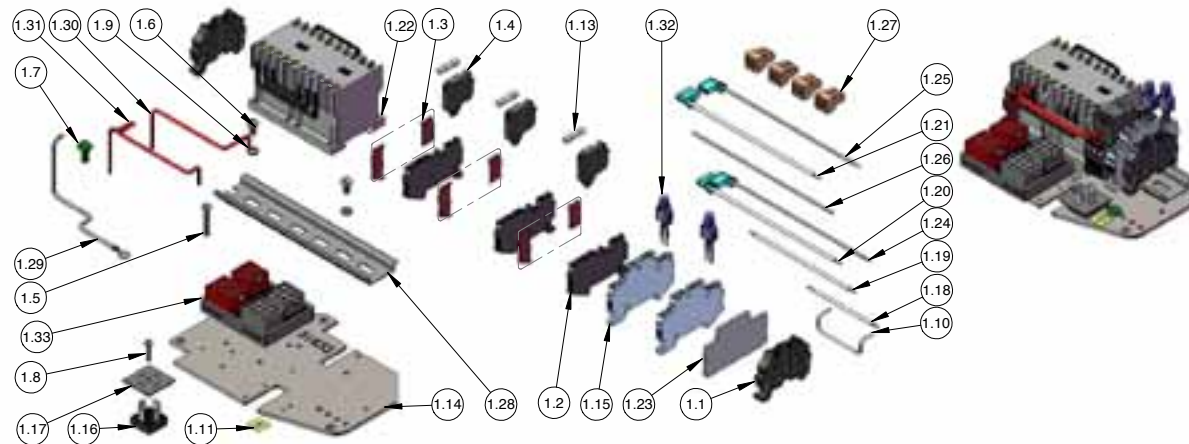
LODESTAR DC BRAKE - SINGLE TO DOUBLE CONVERSION MODELS J, L, LL, R, RR



HOIST MODEL	BRAKE ASSEMBLY ITEM 1	HOIST MOTOR	BRAKE COIL VOLTAGE
J, L, R	10001457	110/115-1-50/60	103VDC
	10001458	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC
LL, RR	10001460	220/230-1-50/60 220/230-3-50/60 380/415/480-3-50/60	205VDC

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	V2 LODESTAR, SIZE 10 BRAKE	1
1.1	10001253	V2 LODESTAR, SIZE 10 ROTOR	1
2	00001431	V2 LODESTAR, SIZE 10 HUB	1
3	00001433	HUB SPACER V2 DC INTORQ BRAKE	1
4	35766	RETAINING RING - 5100-68	1
5	982709	SCREW 5/16-18 UNC 2A X 1"	2
6	945851	LOCKWASHER 5/16 X .125 X .078"	2

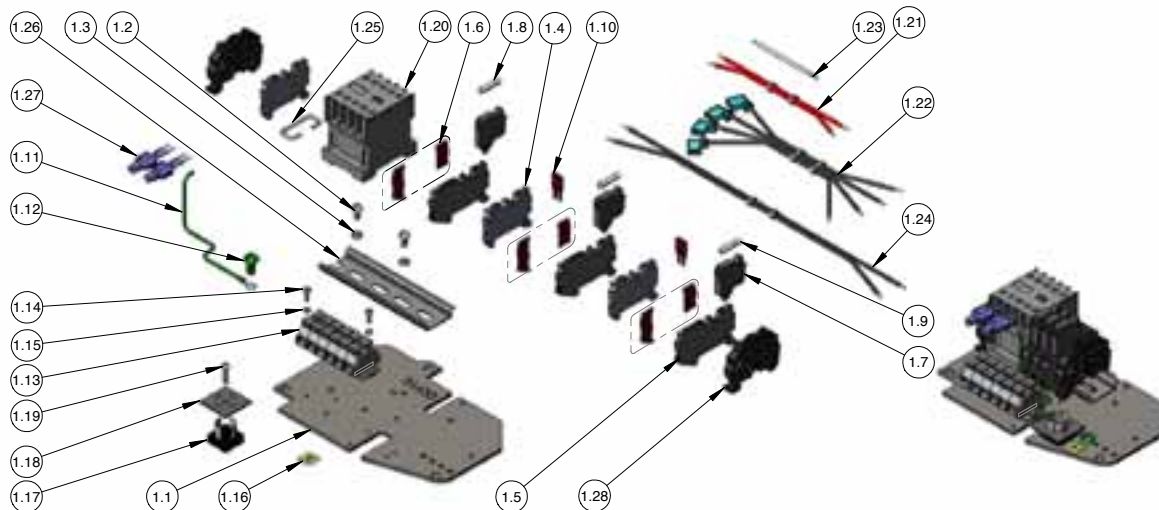
CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE BHSE FUSED-3 PHASE 220/230-380/415/460-3-50/60 MODELS B, C, & F



CONTACTOR BKT S/A	REVERSING CONTACTOR	SECONDARY VOLTAGE
00001716	24799	110 V
00001717	24797	48 V
00001718	28860	24 V

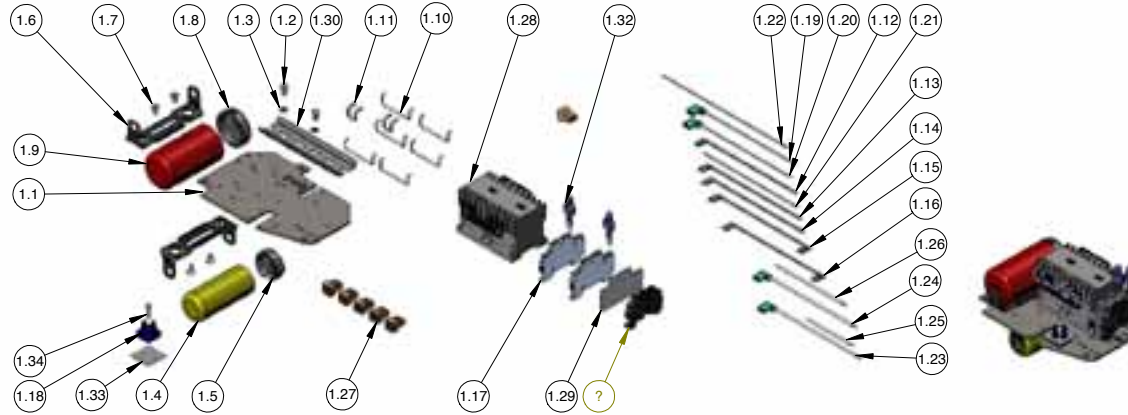
Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	CONTACTOR BKT S/A BHSE	1
1.1	909J13	END CLAMP	2
1.2	29018	FUSIBLE TERMINAL STRIP	3
1.3	00000398	TERMINAL STRIP COVER SEGMENT	3
1.4	29019	TERMINAL STRIP CARTRIDGE	3
1.5	987862	SCREW #8-32UNC-2A X 1"	1
1.6	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.7	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.8	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.9	987873	LOCKWASHER #10 ASA MEDIUM	2
1.10	51847	JUMPER	1
1.11	20940	GROUND LABEL	1
1.12	00000393	FUSE-5MM X 20MM-500MA	1
1.13	00000394	FUSE-5MM X 20MM-1A	2
1.14	31633	CONTACTOR PLATE	1
1.15	00001506	TERMINAL STRIP	2
1.16	70246	RECTIFIER	1
1.17	70274	RECTIFIER INSULATOR	1
1.18	00000537	B8 JUMPER	1
1.19	00000538	B9 JUMPER	1
1.20	00000376	B5 JUMPER	1
1.21	00000205	B6 JUMPER	1
1.22	SEE TABLE	REVERSING CONTACTOR	1
1.23	00001507	TERMINAL STRIP PARTITION	1
1.24	00001501	JUMPER - B4	1
1.25	00001500	B3-JUMPER	1
1.26	00001504	B7-JUMPER	1
1.27	11782704	CONNECTOR PUSHWIRE ORANGE	4
1.28	29010	DIN-RAIL 6.50" LONG	1
1.29	27189	JUMPER (G-Y)	1
1.30	00000750	JUMPER WIRE	1
1.31	00000751	JUMPER WIRE	1
1.32	00001505	SURGE SUPPRESSOR	2
1.33	10001233	VOLTAGE CHANGE BOARD	1

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE DIRECT CONTROL 220/230-380/415/460-3-50/60 MODELS B, C, & F



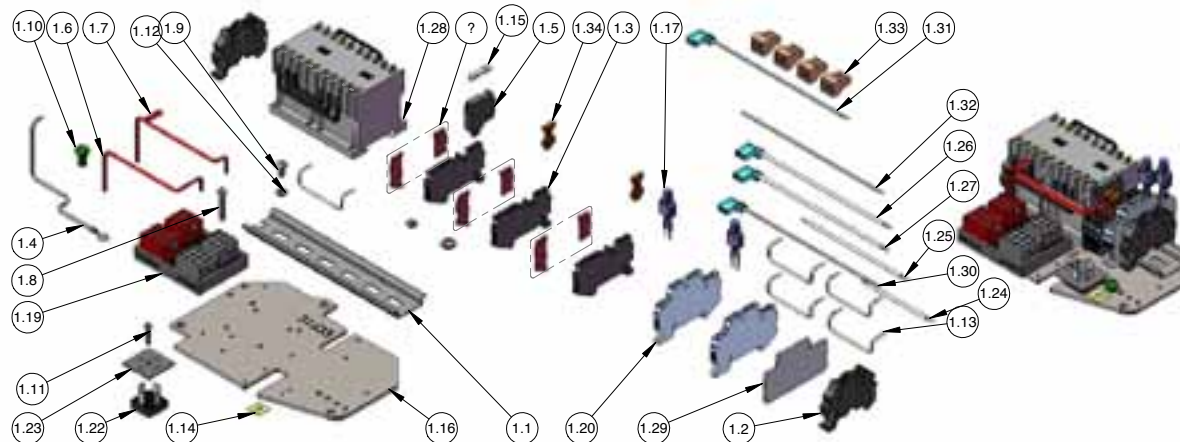
Item No.	PART NO.	DESCRIPTION	Qty.
1	00000333	CONTACTOR BRACKET S/A	1
1.1	31633	CONTACTOR PLATE	1
1.2	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.3	987873	LOCKWASHER #10 ASA MEDIUM	2
1.4	29014	TERMINAL STRIP	3
1.5	29018	FUSIBLE TERMINAL STRIP	3
1.6	00000398	TERMINAL STRIP COVER SEGMENT	3
1.7	29019	TERMINAL STRIP CARTRIDGE	3
1.8	00000393	FUSE-5MM X 20MM-500MA	1
1.9	00000394	FUSE-5MM X 20MM-1A	2
1.10	29047	TERMINAL STRIP BRIDGE	2
1.11	27189	JUMPER-G/Y-#16 AWG	1
1.12	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.13	27700	6 POLE TERMINAL STRIP	1
1.14	982718	MACHINE SCREW PAN HEAD	2
1.15	987929	LOCKWASHER #5 REG. HELICAL	2
1.16	20940	GROUND LABEL	1
1.17	70246	RECTIFIER	1
1.18	70274	RECTIFIER INSULATOR	1
1.19	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.20	28904	CONTACTOR, NON-REVERSING	1
1.21	00000331	'R1/R2' JUMPER HARNESS	1
1.22	00000326	RECTIFIER HARNESS	1
1.23	51845	JUMPER	1
1.24	00000827	'H5/H6' JUMPER HARNESS	1
1.25	51847	JUMPER	1
1.26	29009	DIN-RAIL 4.50" LONG	1
1.27	00000535	SURGE SUPPRESSOR	2
1.28	909J13	END CLAMP	2

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE SINGLE PHASE 110/115-1-50/60 MODELS A, AA, B, C, E & H



Item No.	PART NO.	DESCRIPTION	Qty.
1	00001674	CONTACTOR PLATE S/A	1
1.1	31633	CONTACTOR PLATE	1
1.2	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.3	987873	LOCKWASHER #10 ASA MEDIUM	2
1.4	27716	CAPACITOR	1
1.5	29910	CAPACITOR CAP	1
1.6	27910	CAPACITOR MOUNTING BRACKET	2
1.7	982696	SCREW 10-32 UNF-2A X 3/8 LG	4
1.8	27925	SOLID STATE SWITCH CAP	1
1.9	27257	REVERSE SWITCH	1
1.10	51847	JUMPER	6
1.11	51845	JUMPER	2
1.12	27156	JUMPER R14	1
1.13	29911	JUMPER R5	1
1.14	29912	JUMPER R6	1
1.15	29913	JUMPER R7	1
1.16	29914	JUMPER R8	1
1.17	00001506	TERMINAL STRIP	2
1.18	70246	RECTIFIER	1
1.19	00001500	B3-JUMPER	1
1.20	00001501	JUMPER - B4	1
1.21	00001504	B7-JUMPER	1
1.22	00001502	JUMPER-B1	1
1.23	00000376	B5 JUMPER	1
1.24	00000205	B6 JUMPER	1
1.25	00000537	B8 JUMPER	1
1.26	00000538	B9 JUMPER	1
1.27	11782704	CONNECTOR PUSHWIRE ORANGE	6
1.28	24799	REVERSING CONTACTOR	1
1.29	00001507	TERMINAL STRIP PARTITION	1
1.30	29312	DIN-RAIL 5.00" LONG	1
1.31	909J13	END CLAMP	1
1.32	00000535	SURGE SUPPRESSOR	2
1.33	70274	INSULATOR, RECTIFIER	1
1.34	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.35	51846	JUMPER	1

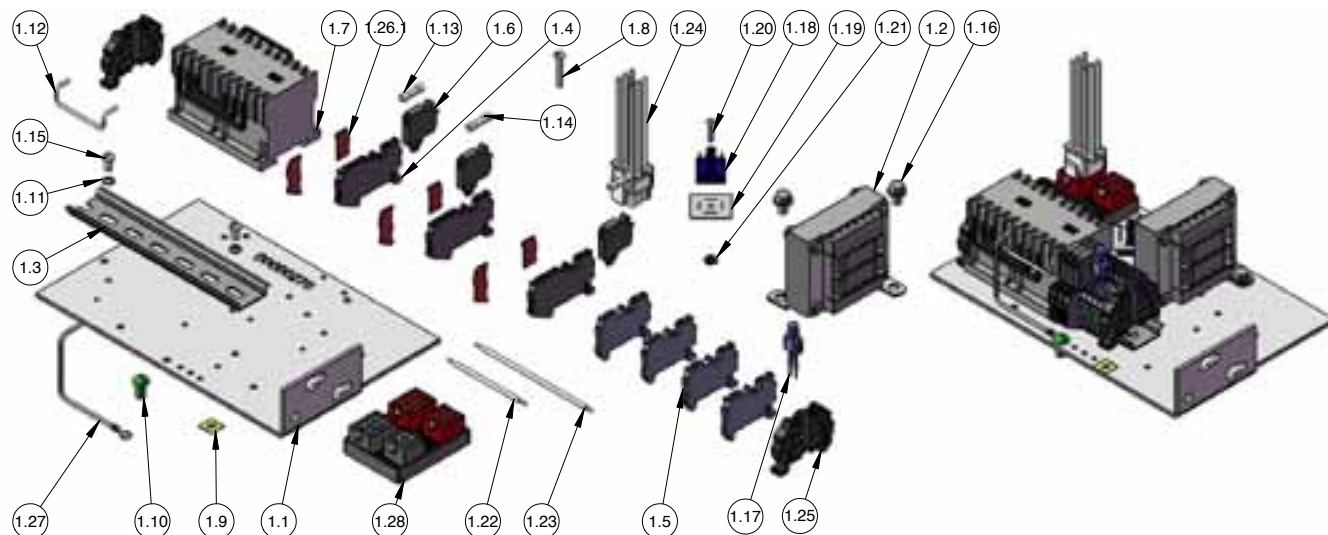
CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE BHSE SHUNTED-3 PHASE 220/230-380/415/460-3-50/60 MODELS B, C, & F



CONTACTOR BKT S/A	REVERSING CONTACTOR	SECONDARY VOLTAGE
00001719	24799	110 V
00001720	24797	48 V
00001721	28860	24 V

Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	CONTACTOR BKT S/A BHSE	1
1.1	29010	DIN-RAIL 6.50" LONG	1
1.2	909J13	END CLAMP	2
1.3	29018	FUSIBLE TERMINAL STRIP	2
1.4	27189	JUMPER (G-Y)	1
1.5	29019	TERMINAL STRIP CARTRIDGE	1
1.6	00000750	JUMPER WIRE	1
1.7	00000751	JUMPER WIRE	1
1.8	987862	SCREW #8-32UNC-2A X 1"	1
1.9	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.10	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.11	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.12	987873	LOCKWASHER #10 ASA MEDIUM	2
1.13	51847	JUMPER	5
1.14	20940	GROUND LABEL	1
1.15	00000393	FUSE-5MM X 20MM-500MA	1
1.16	31633	CONTACTOR PLATE	1
1.17	00001505	SURGE SUPPRESSOR	2
1.18	982226	LOCKWASHER 1/4 X .109 X .062"	1
1.19	10001233	VOLTAGE CHANGE BOARD	1
1.20	00001506	TERMINAL STRIP	2
1.21	00000398	TERMINAL STRIP COVER SEGMENT	3
1.22	70246	RECTIFIER	1
1.23	70274	RECTIFIER INSULATOR	1
1.24	00000537	B8 JUMPER	1
1.25	00000538	B9 JUMPER	1
1.26	00000376	B5 JUMPER	1
1.27	00000205	B6 JUMPER	1
1.28	SEE TABLE	REVERSING CONTACTOR	1
1.29	00001507	TERMINAL STRIP PARTITION	1
1.30	00001501	JUMPER - B4	1
1.31	00001500	B3-JUMPER	1
1.32	00001504	B7-JUMPER	1
1.33	11782704	CONNECTOR PUSHWIRE ORANGE	4
1.34	29017	TERMINAL STRIP SHUNT	2

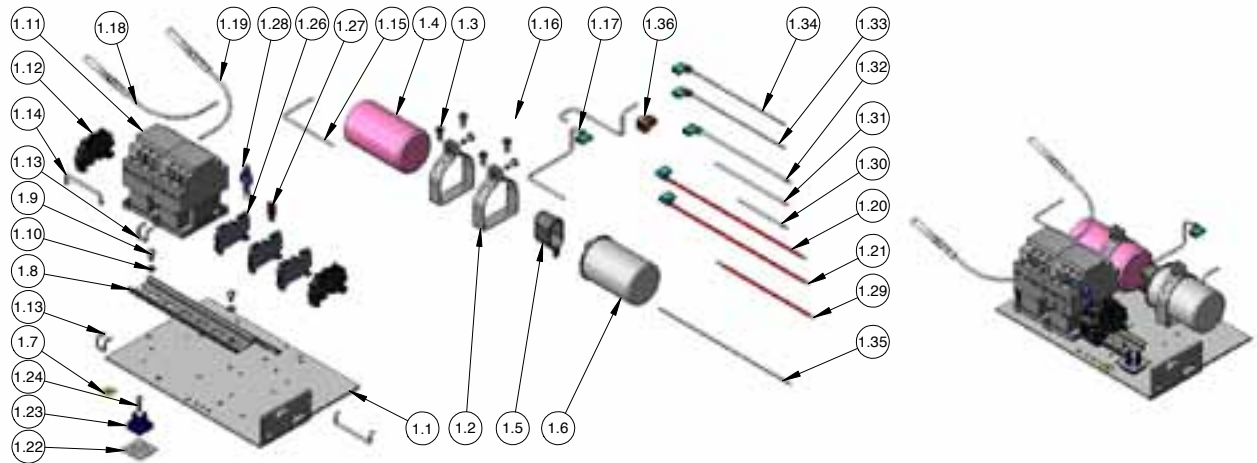
CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE BHSE SHUNTED-3 PHASE 220/230-380/415/460-3-50/60 MODELS B, C, & F



CONTACTOR BKT S/A	TRANSFORMER	REVERSING CONTACTOR	SECONDARY VOLTAGE
00001722	00000594T	28860	24 V
00001723	00000595T	24797	48 V
00001724	00000596T	24799	110 V

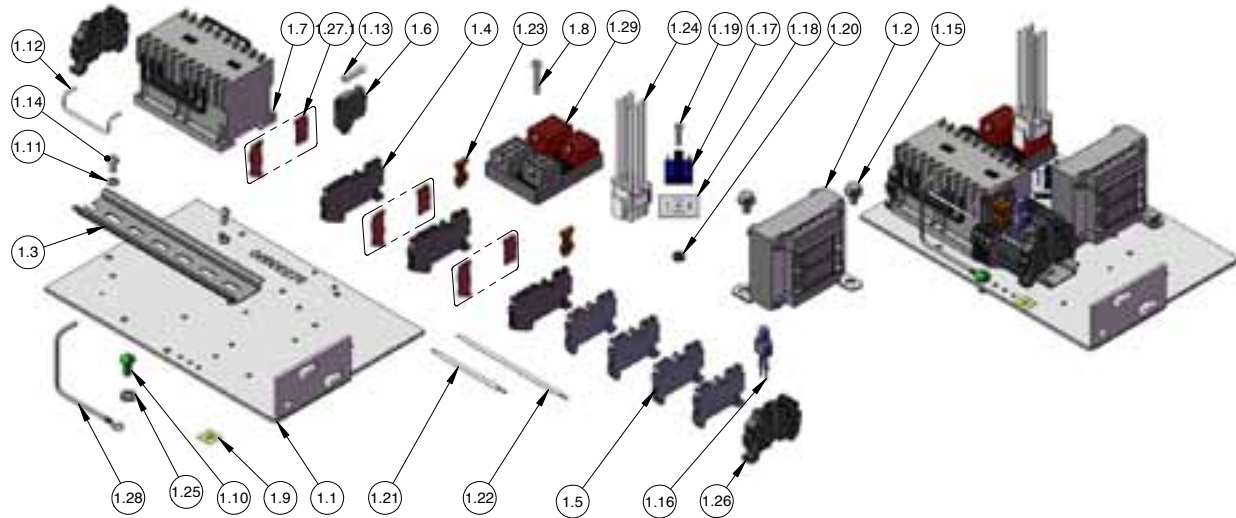
Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	CONTACTOR PLATE S/A 24V	1
1.1	00000278	CONTACTOR BRACKET	1
1.2	SEE TABLE	TRANSFORMER-V2-230/460	1
1.3	29010	DIN-RAIL 6.50" LONG	1
1.4	29018	FUSIBLE TERMINAL STRIP	3
1.5	29014	TERMINAL STRIP	4
1.6	29019	TERMINAL STRIP CARTRIDGE	3
1.7	SEE TABLE	REVERSING CONTACTOR	1
1.8	987862	SCREW #8-32 UNC-2A X 1"	1
1.9	20940	GROUND LABEL	1
1.10	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.11	987873	LOCKWASHER #10 ASA MEDIUM	2
1.12	51847	JUMPER	1
1.13	00000393	FUSE-5MM X 20MM-500MA	1
1.14	00000394	FUSE-5MM X 20MM-1A	2
1.15	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.16	25861	SCREW 1/4-20 UNC-2A X 3/8" HEX	2
1.17	00000535	SURGE SUPPRESSOR	1
1.18	70274	INSULATOR, RECTIFIER	1
1.19	70274	INSULATOR, RECTIFIER	1
1.20	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.21	982470	HEX HEAD MACHINE NUT	1
1.22	00000537	B8 JUMPER	1
1.23	00000538	B9 JUMPER	1
1.24	00001733	HARNESS V2/CONTACTOR	1
1.25	909J13	END CLAMP	2
1.26	00000398	TERMINAL STRIP COVER SEGMENT	3
1.27	27189	JUMPER (G-Y)	1
1.28	10001233	VOLTAGE CHANGE BOARD	1

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE SINGLE PHASE 110/115-1-50/60 MODELS J, L, & R



Item No.	PART NO.	DESCRIPTION	Qty.
1	00001725	CONTACTOR BRACKET S/A	1
1.1	00000278	CONTACTOR BRACKET	1
1.2	35268	CLAMP	2
1.3	982873	MACHINE SCREW PAN HEAD	6
1.4	35279	START CAPACITOR	1
1.5	35285	RUN CAPACITOR INSULATOR	1
1.6	35278	CAPACITOR, RUN	1
1.7	20940	GROUND LABEL	1
1.8	29010	DIN-RAIL 6.50" LONG	1
1.9	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.10	987873	LOCKWASHER #10 ASA MEDIUM	2
1.11	28905	REVERSING CONTACTOR	1
1.12	909J13	END CLAMP	2
1.13	51845	JUMPER	2
1.14	51847	JUMPER	2
1.15	29035	JUMPER (R4)	1
1.16	29034	JUMPER (R10)	1
1.17	00000758	JUMPER V2 1 PHASE (R9)	1
1.18	29036	JUMPER (R2)	1
1.19	29037	JUMPER (R3)	1
1.20	00000755	JUMPER V2 1 PHASE (R7)	1
1.21	00000757	JUMPER V2 1 PHASE (R6)	1
1.22	70274	INSULATOR, RECTIFIER	1
1.23	70246	RECTIFIER	1
1.24	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.25	982470	HEX HEAD MACHINE NUT	1
1.26	29014	TERMINAL STRIP	3
1.27	29047	TERMINAL STRIP BRIDGE	1
1.28	00001505	SURGE SUPPRESSOR	1
1.29	00000336	JUMPER (R12)	1
1.30	00000537	B8 JUMPER	1
1.31	00000538	B9 JUMPER	1
1.32	00000376	B5 JUMPER	1
1.33	00001500	B3-JUMPER	1
1.34	00001501	JUMPER - B4	1
1.35	00001503	JUMPER-B2	1
1.36	11782704	CONNECTOR PUSHWIRE ORANGE	1

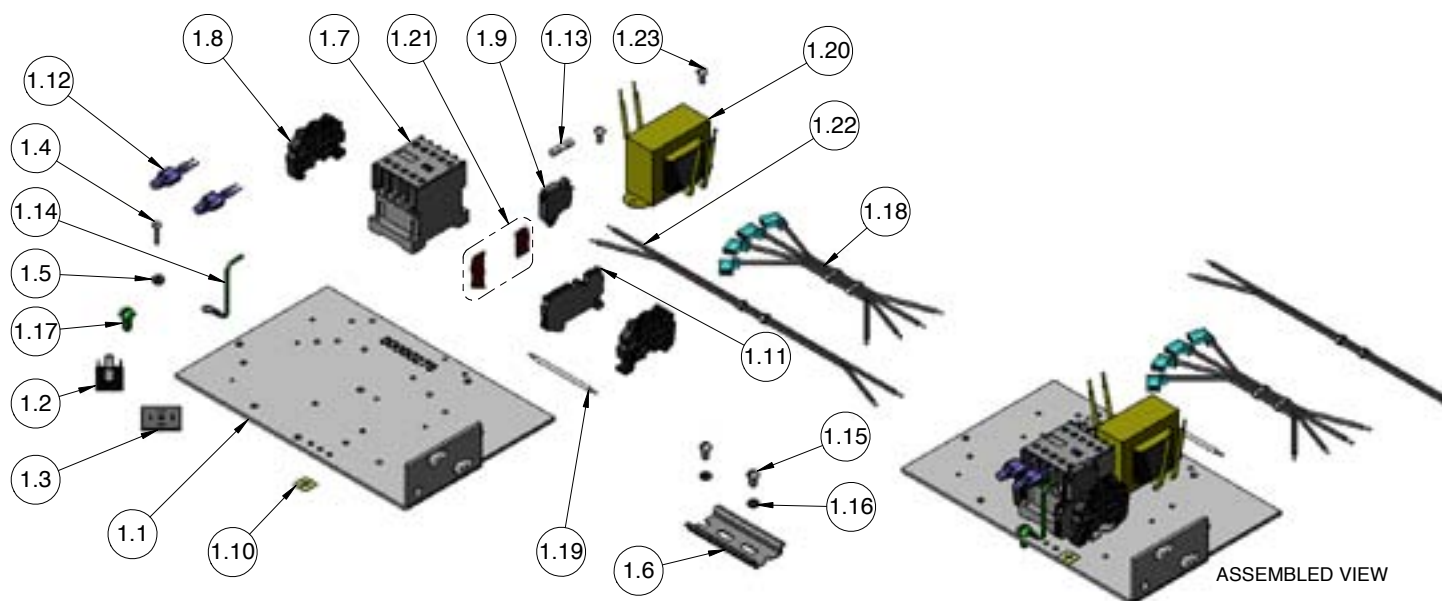
CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE BHSE SHUNTED-3 PHASE 220/230-380/415/460-3-50/60 MODELS J, L, LL, R, & RR



CONTACTOR BKT S/A	TRANSFORMER	REVERSING CONTACTOR	SECONDARY VOLTAGE
00001726	00000594T	28860	24 V
00001727	00000595T	24797	48 V
00001728	00000596T	24799	110 V

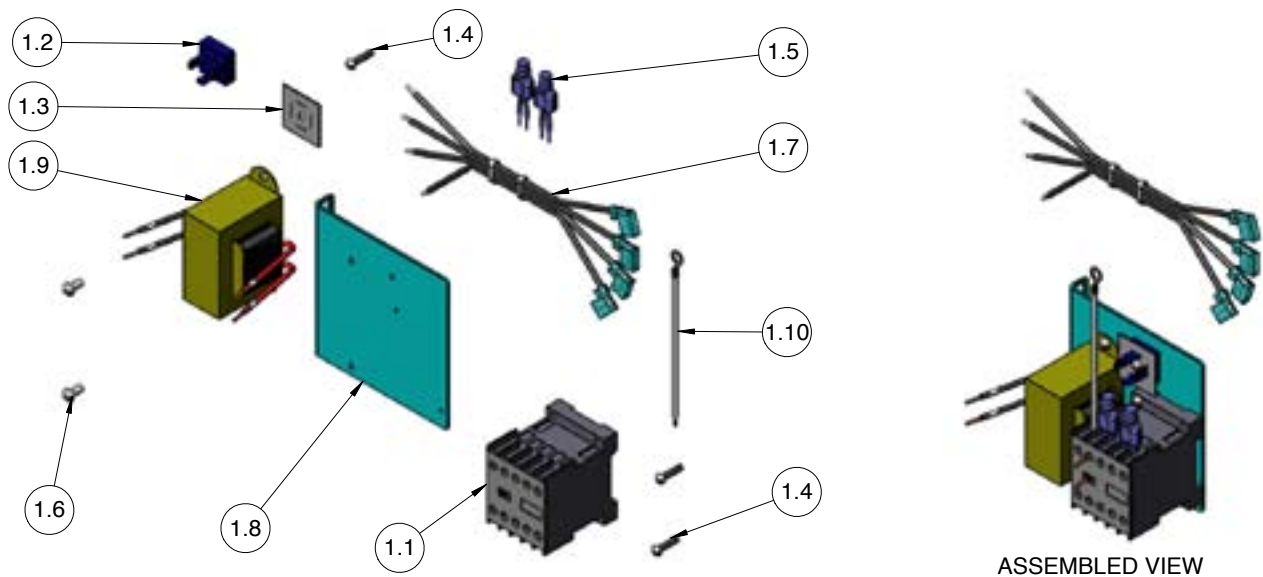
Item No.	PART NO.	DESCRIPTION	Qty.
1	SEE TABLE	CONTACTOR PLATE S/A 24V	1
1.1	00000278	CONTACTOR BRACKET	1
1.2	SEE TABLE	TRANSFORMER-V2-230/460//24V	1
1.3	29010	DIN-RAIL 6.50" LONG	1
1.4	29018	FUSIBLE TERMINAL STRIP	3
1.5	29014	TERMINAL STRIP	4
1.6	29019	TERMINAL STRIP CARTRIDGE	1
1.7	SEE TABLE	REVERSING CONTACTOR	1
1.8	987862	SCREW #8-32 UNC-2A X 1"	1
1.9	20940	GROUND LABEL	1
1.10	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.11	987873	LOCKWASHER #10 ASA MEDIUM	2
1.12	51847	JUMPER	1
1.13	00000393	FUSE-5MM X 20MM-500MA	1
1.14	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.15	25861	SCREW 1/4-20 UNC-2A X 3/8" HEX	2
1.16	00000535	SURGE SUPPRESSOR	1
1.17	70246	RECTIFIER	R
1.18	70274	INSULATOR, RECTIFIER	1
1.19	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.20	982470	HEX HEAD MACHINE NUT	1
1.21	00000537	B8 JUMPER	1
1.22	00000538	B8 JUMPER	1
1.23	29017	TERMINAL STRIP SHUNT	2
1.24	00001733	HARNESS V2/CONTACTOR	1
1.25	982226	LOCKWASHER 1/4 X .109 X .062	1
1.26	909J13	END CLAMP	2
1.27	00000398	TERMINAL STRIP COVER SEGMENT	3
1.28	27189	JUMPER (G-Y)	1
1.29	10001233	VOLTAGE CHANGE BOARD	1

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE DIRECT CONTROL 380/415/460-3-50/60 MODELS J, L, LL, R, & RR



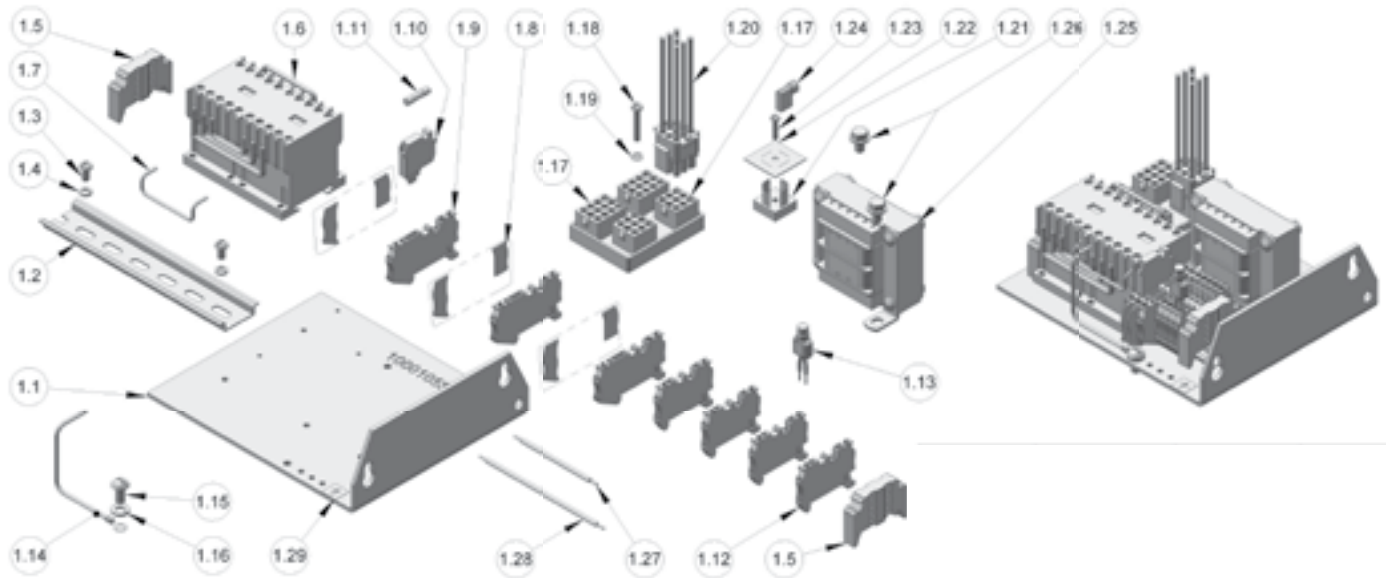
Item No.	PART NO.	DESCRIPTION	Qty.
1.1	10001118	CONTACTOR PLATE S/A	1
1.1	00000278	CONTACTOR BRACKET	1
1.2	70246	RECTIFIER 1	
1.3	70274	RECTIFIER INSULATOR	1
1.4	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.5	982470	NUT #6-32 UNC-2A HEX MACHINE	1
1.6	00000323	DIN RAIL 2.75" LONG	1
1.7	28904	CONTACTOR, NON-REVERSING	1
1.8	909J13	END CLAMP	2
1.9	29019	TERMINAL STRIP CARTRIDGE	1
1.10	20940	GROUND LABEL	1
1.11	29018	FUSIBLE TERMINAL STRIP	1
1.12	00000535	SURGE SUPPRESSOR	2
1.13	00000393	FUSE-5MM X 20MM-500MA	1
1.14	27189	JUMPER-G/Y-#16 AWG	1
1.15	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.16	987873	LOCKWASHER #10 ASA MEDIUM	2
1.17	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.18	00000326	RECTIFIER HARNESS	1
1.19	51845	JUMPER	1
1.20	10001114	TRANSFORMER	1
1.21	00000398	TERMINAL STRIP COVER SEGMENT	1
1.22	00000827	'H5/H6' JUMPER HARNESS	1
1.23	982683	SCREW #8-32 UNC-2A X 3/8"	2

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE DIRECT CONTROL 3 80/415/460-3-50/60 MODELS B, C, & F



Item No.	PART NO.	DESCRIPTION	Qty.
1.7.1	10001121	CONTACTOR PLATE S/A	1
1.1	35928	MAINLINE CONTACTOR	1
1.2	70246	RECTIFIER	1
1.3	70274	INSULATOR, RECTIFIER	1
1.4	957854	SCREW #6-32 NC-2 X 5/8" ROUND	3
1.5	00001505	SURGE SUPPRESSOR	2
1.6	982683	SCREW #8-32 UNC-2A X 3/8"	2
1.7	00000326	RECTIFIER HARNESS	1
1.8	10001120	CONTACTOR PLATE	1
1.9	10001119	TRANSFORMER	1
1.10	27189	G-Y JUMPER	1

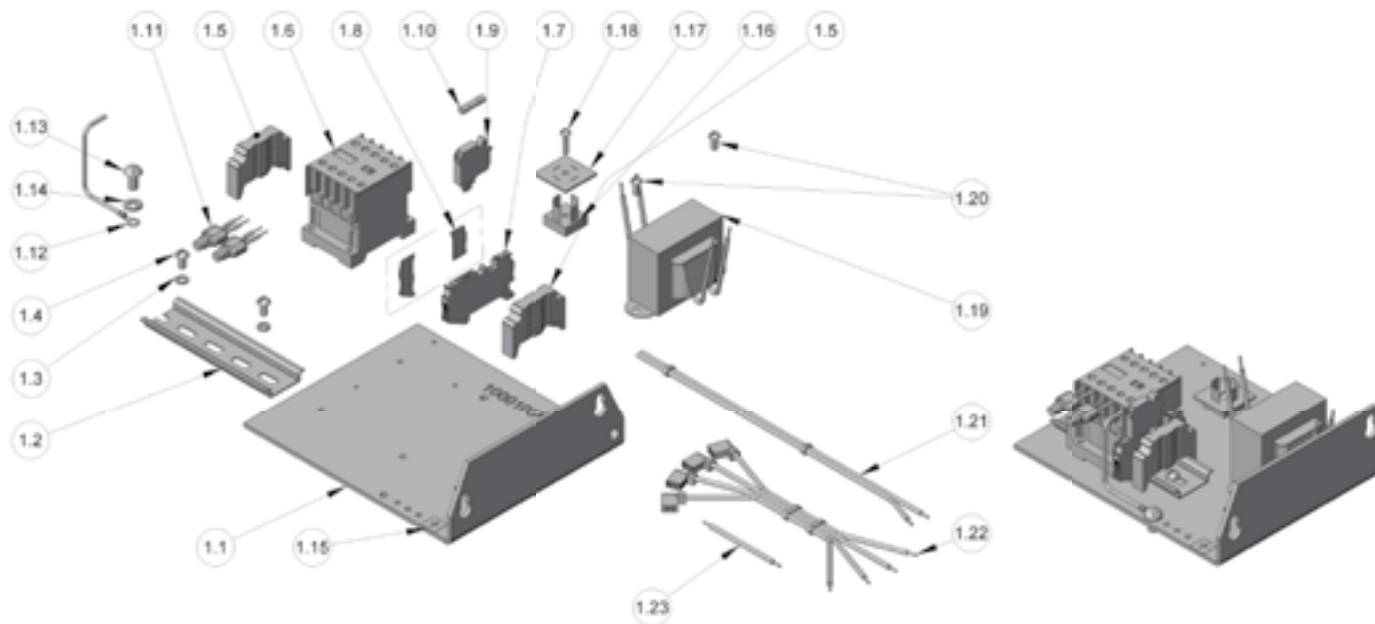
CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE 220/230-380/415/460-3-50/60 MODELS: RRS



CONTACTOR BKT S/A	TRANSFORMER	REVERSING CONTACTOR	SECONDARY VOLTAGE
10001064	00000594T	28860	24 V
10001065	00000595T	24797	48 V
10001066	00000596T	24799	110 V

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SEE TABLE	CTRLS ASSY-DUAL VOLTAGE	1
1.1	10001055	CONTACTOR CONTROLS BRACKET	1
1.2	29010	DIN-RAIL 6.50" LONG	1
1.3	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.4	987873	LOCKWASHER #10 ASA MEDIUM	2
1.5	29015	TERMINAL STRIP END CLAMP	2
1.6	SEE TABLE	REVERSING CONTACTOR	1
1.7	51847	JUMPER	1
1.8	00000398	TERMINAL STRIP COVER SEGMENT	3
1.9	29018	FUSIBLE TERMINAL STRIP	3
1.10	29019	TERMINAL STRIP CARTRIDGE	1
1.11	00000393	FUSE-5MM X 20MM-500MA	1
1.12	29014	TERMINAL STRIP	4
1.13	00000535	SURGE SUPPRESSOR	1
1.14	27189	JUMPER-G/Y-#16 AWG	1
1.15	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.16	982226	LOCKWASHER 1/4 X .109 X .062"	1
1.17	10001233	VOLTAGE CHANGE BOARD	1
1.18	987862	SCREW #8-32UNC-2A X 1"	1
1.19	957844	LOCKWASHER	1
1.20	00001733	HARNESS V2/CONTACTOR	1
1.21	70246	RECTIFIER	1
1.22	70274	INSULATOR, RECTIFIER	1
1.23	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.24	983197	WIRING TERMINAL	1
1.25	SEE TABLE	TRANSFORMER-V2-230/460 PRIMARY	1
1.26	25861	SCREW 1/4-20 UNC-2A X 3/8" HEX	2
1.27	00000537	B8 JUMPER	1
1.28	00000538	B9 JUMPER	1
1.29	20940	GROUND LABEL	1

CONTACTOR PLATE ASSEMBLY FOR USE WITH DC BRAKE DIRECT CONTROL 380/415/460-3-50/60 MODELS: RRS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10001070	CTRLS ASSY-DUAL VOLTAGE	1
1.1	10001055	CONTACTOR CONTROLS BRACKET	1
1.2	29009	DIN-RAIL 6.50" LONG	1
1.3	987873	LOCKWASHER #10 ASA MEDIUM	2
1.4	982686	SCREW #10-32 UNF-2A X 3/8" SL	2
1.5	29015	TERMINAL STRIP END CLAMP	2
1.6	28904	NON-REVERSING CONTACTOR	1
1.7	29018	FUSIBLE TERMINAL STRIP	1
1.8	00000398	TERMINAL STRIP COVER SEGMENT	1
1.9	29019	TERMINAL STRIP CARTRIDGE	1
1.10	00000393	FUSE-5MM X 20MM-500MA	1
1.11	00000535	SURGE SUPPRESSOR	2
1.12	27189	GROUND JUMPER	1
1.13	987827	SCREW 1/4-20 UNC-2A X 1/2"	1
1.14	982226	LOCKWASHER 1/4 X .109 X .062"	1
1.15	20940	GROUND LABEL	1
1.16	70246	RECTIFIER	1
1.17	70274	INSULATOR, RECTIFIER	1
1.18	957854	SCREW #6-32 NC-2 X 5/8" ROUND	1
1.19	10001114	TRANSFORMER	1
1.20	982683	SCREW #8-32UNC-2A X 1"	2
1.21	10001117	H5/H6 JUMPER HARNESS	1
1.22	00000326	RECTIFIER HARNESS	1
1.23	51845	JUMPER	1

LUBRICANTS

Part Number for Packaged Lubricants Used in the Lodestar Electric Chain Hoists (Refer to page 14 for Lubrication Instructions)		
Lubricant Usage	Type of Lubricant	Part Numbers and Packaged Quantity of Lubricants
Hoist Gears	Grease (Special)	Models A to H uses 28605
		Model J to RRT excluding RRS uses 28617
		Model RRS uses 1 each of both 28605 and 28617
Load Chain	Oil	28608 for 1 Pint Can 28619 for 1 Gal Can
Limit Switch Shaft Threads	*Oil	"3 in 1" or Light Machine Oil-obtain locally
Lower Hook Thrust Bearing	*Oil	Heavy Machine Oil obtain locally

*These oils are not furnished by CM in Packaged Quantities. When ordering lubricants, specify the type of lubricant, part number and packages quantity required.

Touch-up Paints for Lodestar Electric Chain Hoists:

Hoist Order *(1) case (12-12 oz. Aerosol Cans) of Black Touch-up paints Part Number 84189.

*Touch-up paints are only available in case quantities.

NOTE: When painting hoists, also order warning labels, identification labels, etc. that may be coated during painting.

RECOMMENDED SPARE PARTS

To insure continued service of the Lodestar Hoist, the following is a list of parts that are recommended to be kept on hand at all times to replace parts that have worn or failed.

Part Description	Models A-H	Models J-RRT	Model RRS	Qty Required for Each Hoist
Limit Switch Kit	31631	31636 (excludes RRS)	31636	1
Solid State Reverse Switch (Single Phase Units Only)	27257	35499	n/a	1
Start Capacitor (Single Phase Units Only)	27716	35279	n/a	1
Run Capacitor (Single Phase Units Only)	-	35278	n/a	
Transformer	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	0 or 1
Control Station Hardware Kit w/ Gasket	SEE CONTROLS SECTION	SEE CONTROLS SECTION	SEE CONTROLS SECTION	1
Control Station Button Insert Kit	SEE CONTROLS SECTION	SEE CONTROLS SECTION	SEE CONTROLS SECTION	1
Contactor	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	1
Fuse - 500mA	00000393	00000393	00000393	
Speed Selector Relay (2-Speed Units Only)	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	SEE CONTACTOR PLATE SECTION	1
CM Terminal Pin-Extraction Tool (Dual Voltage Only)	27163	27163	27163	1
Suspension Bolts	987554	36846	10001047/82638	2(1 EA RRS)