
OWNER'S MANUAL

AIR POWERED CHAIN HOIST TCR SERIES

1/4 Ton through 6 Ton Capacity

Code Number and Serial Number

WARNING

This equipment should not be installed, operated or maintained by any person who has not read and understood all the contents of this manual. Failure to read and comply with the contents of this manual can result in serious bodily injury or death, and/or property damage.

HARRINGTON
A KITO GROUP COMPANY

10.0 Parts List

When ordering Parts, please provide the Hoist code number located on the Hoist nameplate (see fig. below).

Reminder: Per Sections 3.12.6 and 1.1 to aid in ordering Parts and Product Support, record the Hoist code number and serial number in the space provided on the cover of this manual.



Parts lists for the TCR Air Hoists are presented in this section and are subdivided for reference in Figures 10-1 through 10-6.

The letters C and P designate "Cord" and "Pendant" controlled hoists. Hoists with 2 parts or falls of load chain have a "-2" designator following the model number.

Certain hoists parts in the following parts list are identified by hoist version 1, A, B or C. Use Table 10-1 to determine the hoist version and select the correct hoist part(s).

Table 10-1 Hoist Version Identification Chart				
Item	Version 1	Version A	Version B	Version C
Last digit of the Serial Number:	Numerical digit (ex. BL18 <u>2</u>)	"A" (ex. MD165 <u>A</u>)	"B" (ex. DF124 <u>B</u>)	"C" (ex. KE189 <u>C</u>)
Limit Shaft Attachment Method:	External Retaining Ring	Hairpin Cotter and Washer	Hairpin Cotter and Washer	Hairpin Cotter and Washer
Pendant Hose Connections:	Hose Barb 5mm thread	Hose Barb 5mm thread	90° Tube Fitting 1/8" pipe thread	90° Tube Fitting 1/8" pipe thread
Side Cover Thickness:	1/2"	1/2"	1/2"	7/8"
Chain Springs	No	No	No	Yes

10.1.1.1 TCR250 / TCR500 Main Body

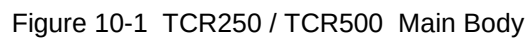


Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426224151	Rotor	1
36	TCR426224161	Stator	1
37	TCR426224171	Front Plate	1
38	TCR426224182	Rear Plate	1
39	TCR426224191	Rear Retainer	1
40	TCR137102020	Vane	8
41	TCR130802212	Vane Spring	8
42	9001202	Bearing	1
43	TCR131103004	O-Ring	1
44	TCR131103023	O-Ring	1
45	9047115	Retaining Ring	1
46	9091283	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402051	Knock Pin	1
49	9000102	Bearing	1
50	TCR426224200	Coupling	1
51	TCR426224212	Wheel Housing	1
52	TCR426224220	Top Pin	1
53	TCR426224230	Spacer	1
54	TCR426261R50	Washer	1
55	9001204	Bearing	1
56	9000109	Bearing	1
57	9091247	Socket Bolt	1
59	9091273	Socket Bolt	1
60	TCR426221R50	Washer	1
61	TCR132108012	Set Screw	1
62	TCR137309075	Brand Name Plate	1
70	TCR426224401	Brake Piston	1
71	TCR426224410	Brake Cover	1
72	TCR426224421	Piston Cover	1
73	TCR426224430	Brake Disc	1
74	TCR130408081	Key	2
75	TCR130802213	Disc Spring	6
76	TCR131103002	O-Ring	1
77	TCR131101004	O-Ring	1

Figure Number	Part Number	Part Name	Parts Per Hoist
78	TCR131103055	O-Ring	1
79	9091247	Socket Bolt	2
80	9091254	Socket Bolt	4
81	TCR131117033	O-Ring	1
85	TCR426224240	Cage	1
86	TCR426224250	Star Gear	3
87	TCR426224260	Pin	3
88	TCR426224270	Thrust Collar	6
89	TCR426224280	Retainer	3
90	TCR426224290	Pinion	1
91	TCR426224300	Load Sheave	1
92	TCR426224312	Gear Case	1
93	TCR426224322	Ring Gear	1
94	TCR426224330	Spacer (P)	3
95	TCR426221K90	Lock Screw	1
96	TCR426224352	Chain Guide	1
97	TCR426224363	Chain Separator	1
98	TCR426224381	Brake Tube	1
100	9000102	Bearing	2
101	9001201	Bearing	2
102	TCR130170035	Needle Bearing	6
103	TCR131117042	O-Ring	1
104	TCR131103055	O-Ring	1
105	9047110	Retaining Ring	3
106	9047145	Retaining Ring	1
107	9047115	Retaining Ring	3
108	9047232	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	4
111	9091271	Socket Bolt	3
112	TCR131103036	O-Ring	1
115	TCR42622457B	Top Hook Set	1
115B	TCR426221S30	Hook Latch	1
115C	TCR130802258	Hook Spring	1
115D	9091232	Socket Bolt	1
115E	E2D853125	U-Nut	1

Figure Number	Part Number	Part Name	Parts Per Hoist
119	TCR426224390	End Stopper	1
120	TCR42622477C	Bottom Hook Set 250	1
120A	TCR426221S2F	Bottom Hook Assy.	1
120B	TCR426221S30	Hook Latch	1
120C	TCR130802258	Hook Spring	1
120D	9091232	Socket Bolt	1
120E	E2D853125	U-Nut	1
125	TCR130502020	Steel Ball	8
126	TCR426221S80	Bottom Hook Holder	1
127	TCR420846PY0	Swivel Hook Plug	1
128	TCR426224770	Sleeve	1
129	TCR426221T20	Chain Pin	1
130	TCR130802259	Lock Ring	1
120	TCR426221S2C	Bottom Hook Set 500	1
120A	TCR426221S2F	Bottom Hook Assy.	1
120B	TCR426221S30	Hook Latch	1
120C	TCR130802258	Hook Spring	1
120D	9091232	Socket Bolt	1
120E	E2D853125	U-Nut	1
125	TCR130502020	Steel Ball	8
126	TCR426221S80	Bottom Hook Holder	1
127	TCR420846PY0	Swivel Hook Plug	1
128	TCR426224760	Sleeve	1
129	TCR426221T20	Chain Pin	1
130	TCR130802259	Lock Ring	1
131	LCER005C	Load Chain	FT
132	TCR426224450	Limit Lock	2
133	TCR136206002	Shock Absorber	2
136	TCR426224680	End Bolt	1
138	9098504	U Nut	1
139*	TCR426224C80	Limit Washer*	2
140*	TCR130802219	Chain Spring*	2

* Version C hoists only.

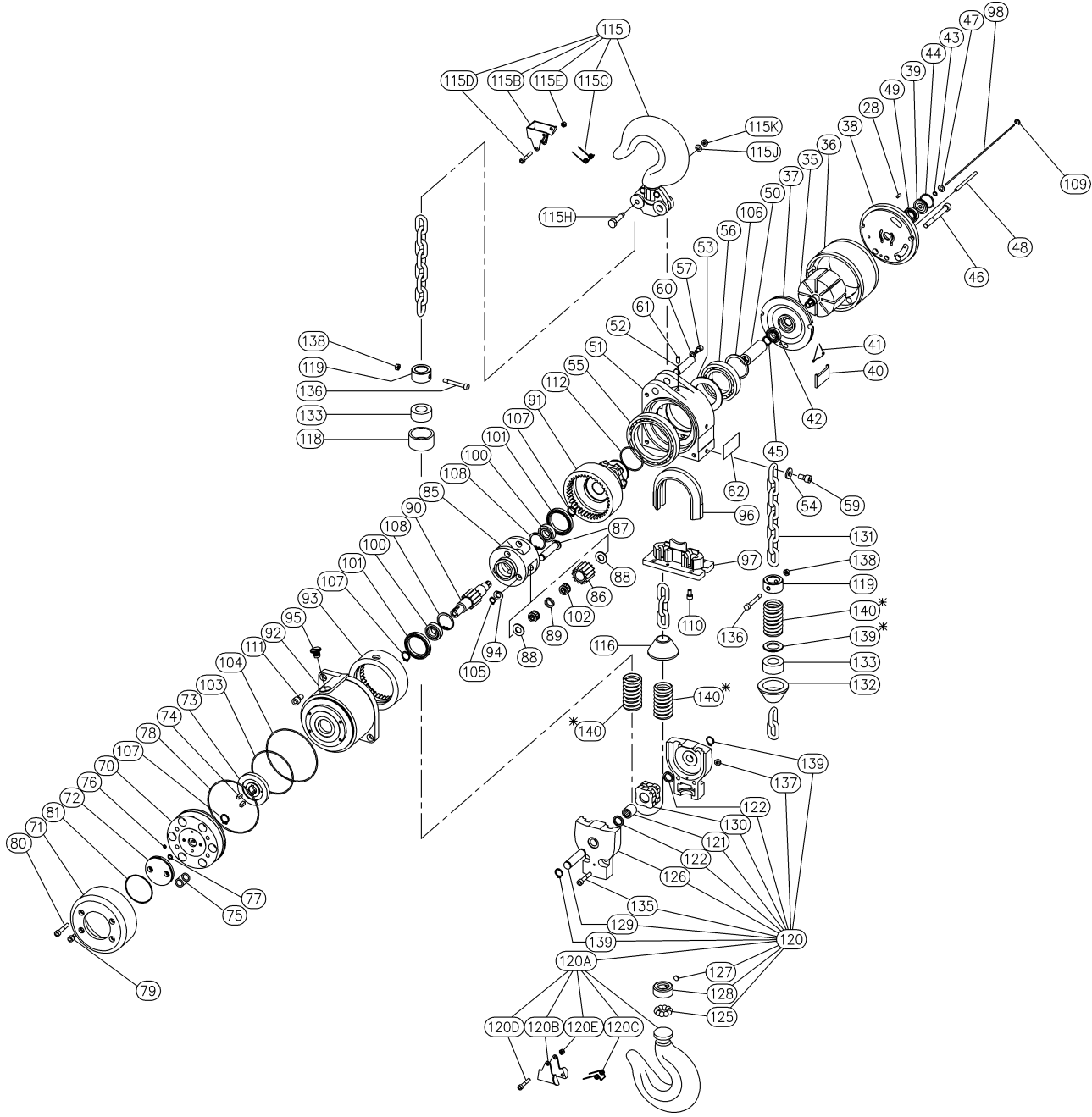


Figure 10-2 TCR1000-2 Main Body

Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426224151	Rotor	1
36	TCR426224161	Stator	1
37	TCR426224171	Front Plate	1
38	TCR426224182	Rear Plate	1
39	TCR426224191	Rear Retainer	1
40	TCR137102020	Vane	8
41	TCR130802212	Vane Spring	8
42	9001202	Bearing	1
43	TCR131103004	O-Ring	1
44	TCR131103023	O-Ring	1
45	9047115	Retaining Ring	1
46	9091283	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402051	Knock Pin	1
49	9000102	Ball Bearing	1
50	TCR426224200	Coupling	1
51	TCR426224212	Wheel Housing	1
52	TCR426224220	Top Pin	1
53	TCR426224230	Spacer	1
54	TCR426261R50	Washer	1
55	9001204	Bearing	1
56	9000109	Bearing	1
57	9091247	Socket Bolt	1
59	9091273	Socket Bolt	1
60	TCR426221R50	Washer	1
61	TCR132108012	Set Screw	1
62	TCR137309075	Brand Name Plate	1
70	TCR426224401	Brake Piston	1
71	TCR426224410	Brake Cover	1
72	TCR426224421	Piston Cover	1
73	TCR426224430	Brake Disc	1
74	TCR130408081	Key	2
75	TCR130802213	Disc Spring	6
76	TCR131103002	O-Ring	1
77	TCR131101004	O-Ring	1

Figure Number	Part Number	Part Name	Parts Per Hoist
78	TCR131103055	O-Ring	1
79	9091247	Socket Bolt	2
80	9091254	Socket Bolt	4
81	TCR131117033	O-Ring	1
85	TCR426224240	Cage	1
86	TCR426224250	Star Gear	3
87	TCR426224260	Pin	3
88	TCR426224270	Thrust Collar	6
89	TCR426224280	Retainer	3
90	TCR426224290	Pinion	1
91	TCR426224300	Load Sheave	1
92	TCR426224312	Gear Case	1
93	TCR426224322	Ring Gear	1
94	TCR426224330	Spacer (P)	3
95	TCR426221K90	Lock Screw	1
96	TCR426224352	Chain Guide	1
97	TCR426224363	Chain Separator	1
98	TCR426224381	Brake Tube	1
100	9000102	Bearing	2
101	9001201	Bearing	2
102	TCR130170035	Needle Bearing	6
103	TCR131117042	O-Ring	1
104	TCR131103055	O-Ring	1
105	9047110	Retaining Ring	3
106	9047145	Retaining Ring	1
107	9047115	Retaining Ring	3
108	9047232	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	4
111	9091271	Socket Bolt	3
112	TCR131103036	O-Ring	1
115	TCR42624457H	Top Hook Set	1
115B	TCR426221S30	Hook Latch	1
115C	TCR130802258	Hook Spring	1
115D	9091232	Socket Bolt	1
115E	E2D853125	U-Nut	1

Figure Number	Part Number	Part Name	Parts Per Hoist
115H	TCR426244580	Chain Pin	1
115J	9012511	Washer	1
115K	9098504	U Nut	1
116	TCR426244630	Free Limit Lock	1
118	TCR426244620	Holder	1
119	TCR426224390	End Stopper	2
120	TCR426244S2C	Bottom Hook Set	1
120A	TCR426221S2F	Bottom Hook Assy.	1
120B	TCR426221S30	Hook Latch	1
120C	TCR130802258	Hook Spring	1
120D	9091232	Socket Bolt	1
120E	E2D853125	U-Nut	1
121	TCR130172006	Needle Bearing	1
122	TCR131204014	Oil Seal	2
125	TCR130502020	Steel Ball	8
126	TCR426244590	Bottom Yoke Assy.	1
127	TCR420846PY0	Swivel Hook Plug	1
128	TCR420846PW0	Outer Bearing Race	1
129	TCR426244600	Wheel Shaft	1
130	TCR426241U20	Idle Sheave	1
135	9091253	Socket Bolt	2
137	9098504	U Nut	2
139	9047114	Retaining Ring	1
131	LCER005C	Load Chain	FT
132	TCR426224450	Limit Lock	1
133	TCR136206002	Shock Absorber	2
136	TCR426224680	End Bolt	2
138	9098504	U Nut	2
139*	TCR426224C80	Limit Washer*	1
140*	TCR130802219	Chain Spring*	3

* Version C hoists only.

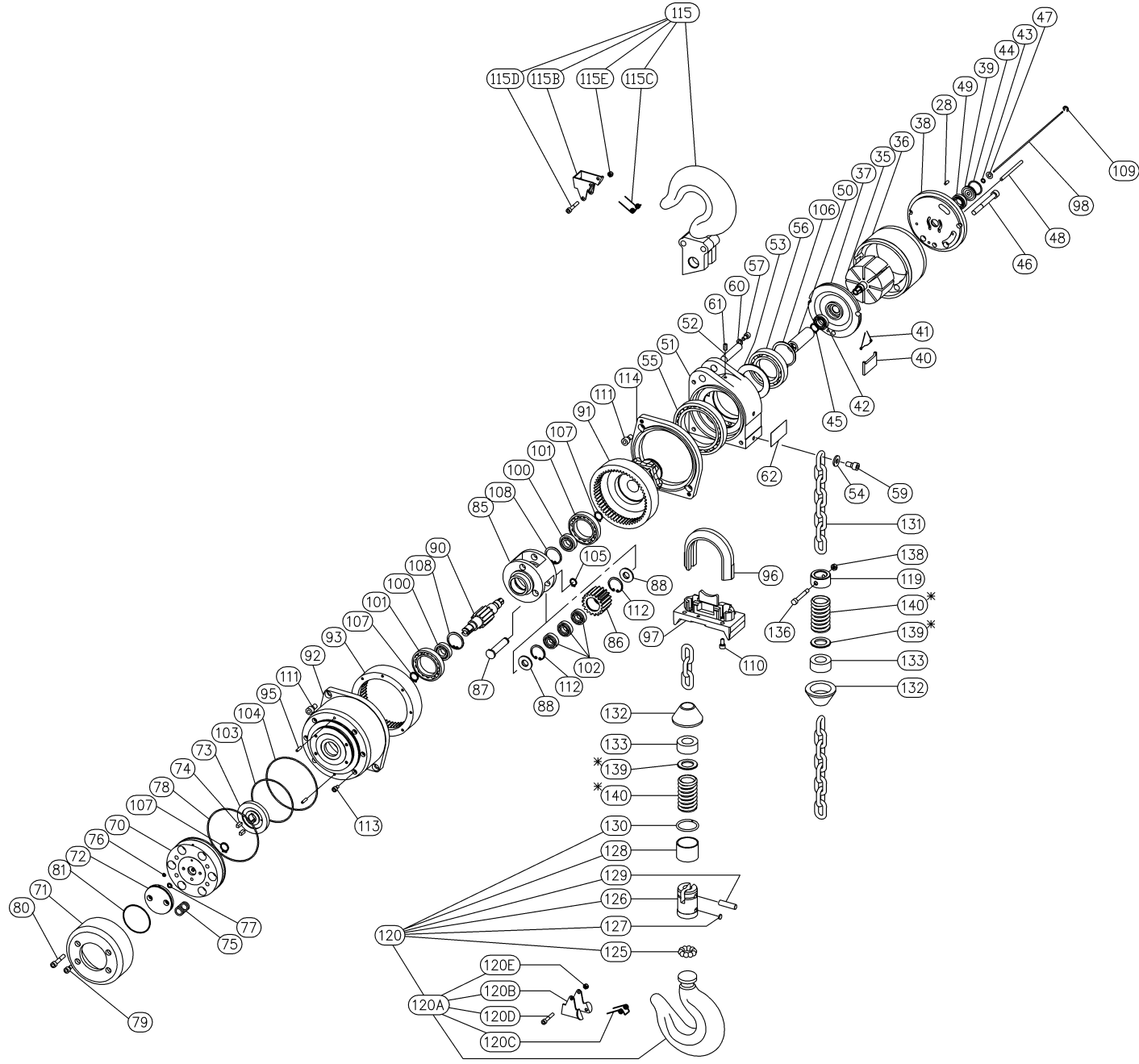


Figure 10-3 TCR1000 Main Body

Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426224151	Rotor	1
36	TCR426224161	Stator	1
37	TCR426224171	Front Plate	1
38	TCR426224182	Rear Plate	1
39	TCR426224191	Rear Retainer	1
40	TCR137102020	Vane	8
41	TCR130802212	Vane Spring	8
42	9001202	Bearing	1
43	TCR131103004	O-Ring	1
44	TCR131103023	O-Ring	1
45	9047115	Retaining Ring	1
46	9091283	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402051	Knock Pin	1
49	9000102	Bearing	1
50	TCR426224200	Coupling	1
51	TCR426224212	Wheel Housing	1
52	TCR426224220	Top Pin	1
53	TCR426224230	Spacer	1
54	TCR426261R50	Washer	1
55	9001204	Bearing	1
56	9000109	Bearing	1
57	9091247	Socket Bolt	1
59	9091273	Socket Bolt	1
60	TCR426221R50	Washer	1
61	TCR132108012	Set Screw	1
62	TCR137309075	Brand Name Plate	1
70	TCR426224401	Brake Piston	1
71	TCR426224410	Brake Cover	1
72	TCR426224421	Piston Cover	1
73	TCR426224430	Brake Disc	1
74	TCR130408081	Key	2
75	TCR130802213	Disc Spring	6
76	TCR131103002	O-Ring	1
77	TCR131101004	O-Ring	1

Figure Number	Part Number	Part Name	Parts Per Hoist
78	TCR131103055	O-Ring	1
79	9091247	Socket Bolt	2
80	9091254	Socket Bolt	4
81	TCR131117033	O-Ring	1
85	TCR426266240	Cage	1
86	TCR426266250	Star Gear	3
87	TCR426266260	Pin	3
88	TCR426266270	Thrust Collar	6
90	TCR426266290	Pinion	1
91	TCR426266300	Load Sheave	1
92	TCR426266310	Gear Case	1
93	TCR426266320	Ring Gear	1
95	TCR426266340	Dowel Pin	4
96	TCR426266351	Chain Guide	1
97	TCR426266360	Chain Separator	1
98	TCR426224381	Brake Tube	1
100	9000102	Bearing	2
101	9001203	Bearing	2
102	9000101	Bearing	9
103	TCR131117042	O-Ring	1
104	TCR131103055	O-Ring	1
105	9047112	Retaining Ring	3
106	9047145	Retaining Ring	1
107	9047115	Retaining Ring	3
108	9047232	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	4
111	9091271	Socket Bolt	6
112	9047228	Retaining Ring	6
113	9091225	Socket Bolt	6
114	TCR426266640	Adapter	1
115	TCR42622457B	Top Hook Set	1
115B	TCR426221S30	Hook Latch	1
115C	TCR130802258	Hook Spring	1
115D	9091232	Socket Bolt	1
115E	E2D853125	U-Nut	1

Figure Number	Part Number	Part Name	Parts Per Hoist
119	TCR426266390	End Stopper	1
120	TCR426261S2C	Bottom Hook Set	1
120A	TCR426221S2F	Bottom Hook Assy.	1
120B	TCR426221S30	Hook Latch	1
120C	TCR130802258	Hook Spring	1
120D	9091232	Socket Bolt	1
120E	E2D853125	U-Nut	1
125	TCR130502020	Steel Ball	8
126	TCR426261S80	Bottom Hook Holder	1
127	TCR420846PY0	Swivel Hook Plug	1
128	TCR426266760	Sleeve	1
129	TCR426261T20	Chain Pin	1
130	TCR130802259	Lock Ring	1
131	LCES010	Load Chain	FT
132	TCR426266450	Limit Lock	2
133	TCR136206003	Shock Absorber	2
136	TCR426224680	End Bolt	1
138	9098504	U Nut	1
139*	TCR426266C80	Limit Washer*	2
140*	TCR130802219	Chain Spring*	2

* Version C hoists only.

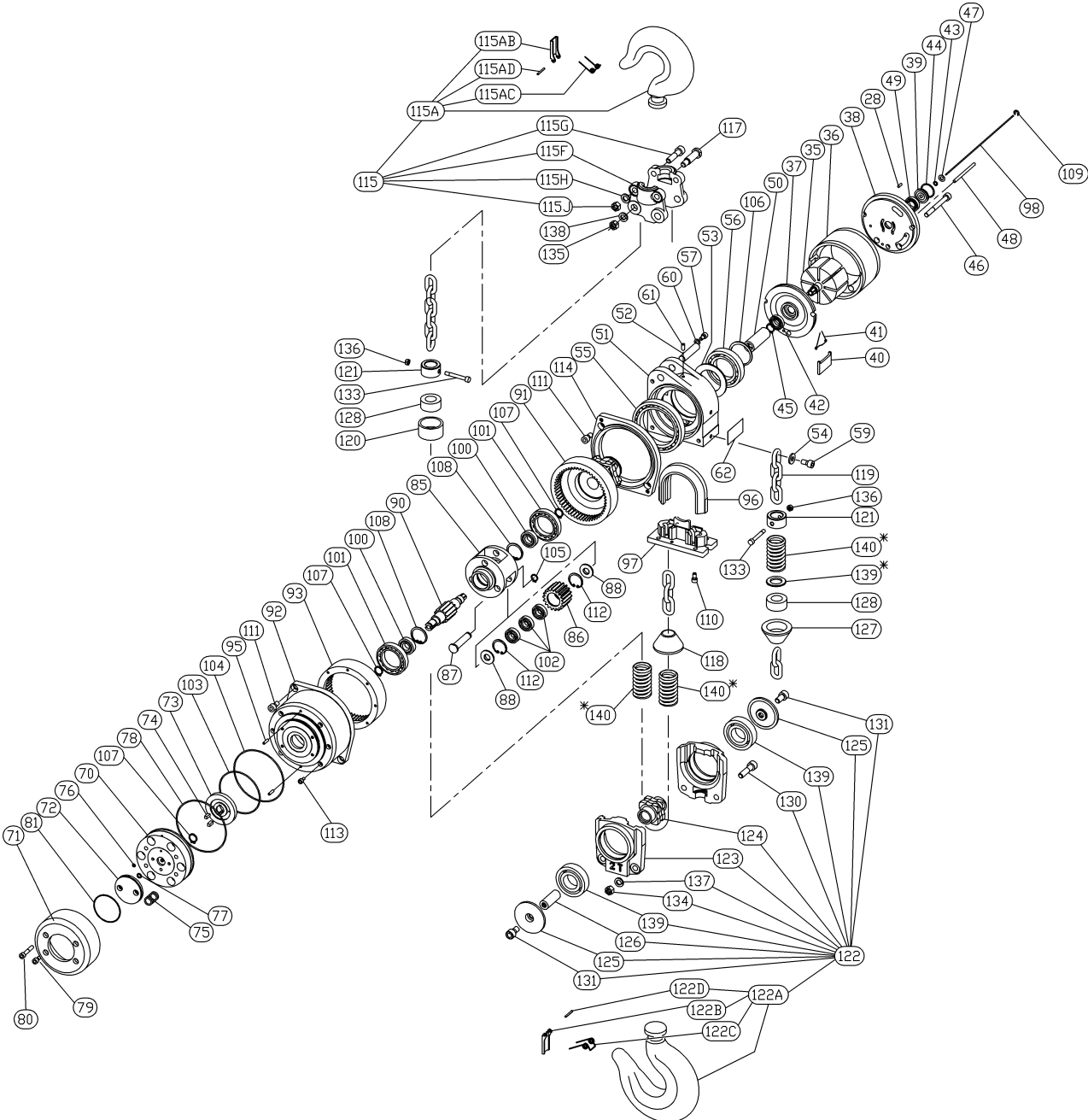


Figure 10-4 TCR2000-2 Main Body

Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426224151	Rotor	1
36	TCR426224161	Stator	1
37	TCR426224171	Front Plate	1
38	TCR426224182	Rear Plate	1
39	TCR426224191	Rear Retainer	1
40	TCR137102020	Vane	8
41	TCR130802212	Vane Spring	8
42	9001202	Bearing	1
43	TCR131103004	O-Ring	1
44	TCR131103023	O-Ring	1
45	9047115	Retaining Ring	1
46	9091283	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402051	Knock Pin	1
49	9000102	Bearing	1
50	TCR426224200	Coupling	1
51	TCR426224212	Wheel Housing	1
52	TCR426224220	Top Pin	1
53	TCR426224230	Spacer	1
54	TCR426261R50	Washer	1
55	9001204	Bearing	1
56	9000109	Bearing	1
57	9091247	Socket Bolt	1
59	9091273	Socket Bolt	1
60	TCR426221R50	Washer	1
61	TCR132108012	Set Screw	1
62	TCR137309075	Brand Name Plate	1
70	TCR426224401	Brake Piston	1
71	TCR426224410	Brake Cover	1
72	TCR426224421	Piston Cover	1
73	TCR426224430	Brake Disc	1
74	TCR130408081	Key	2
75	TCR130802213	Disc Spring	6
76	TCR131103002	O-Ring	1
77	TCR131101004	O-Ring	1

Figure Number	Part Number	Part Name	Parts Per Hoist
78	TCR131103055	O-Ring	1
79	9091247	Socket Bolt	2
80	9091254	Socket Bolt	4
81	TCR131117033	O-Ring	1
85	TCR426266240	Cage	1
86	TCR426266250	Star Gear	3
87	TCR426266260	Pin	3
88	TCR426266270	Thrust Collar	6
90	TCR426266290	Pinion	1
91	TCR426266300	Load Sheave	1
92	TCR426266310	Gear Case	1
93	TCR426266320	Ring Gear	1
95	TCR426266340	Dowel Pin	4
96	TCR426266351	Chain Guide	1
97	TCR426266360	Chain Separator	1
98	TCR426224381	Brake Tube	1
100	9000102	Bearing	2
101	9001203	Bearing	2
102	9000101	Bearing	9
103	TCR131117042	O-Ring	1
104	TCR131103055	O-Ring	1
105	9047112	Retaining Ring	3
106	9047145	Retaining Ring	1
107	9047115	Retaining Ring	3
108	9047232	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	4
111	9091271	Socket Bolt	6
112	9047228	Retaining Ring	6
113	9091225	Socket Bolt	6
114	TCR426266640	Adapter	1
115	TCR42628657B	Hook Set	1
115A	TCR420645PAA	Hook Assy.	1
115AB	TCR420645P10	Hook Latch	1
115AC	TCR130802046	Hook Spring	1
115AD	TCR130603024	Spring Pin	1

Figure Number	Part Number	Part Name	Parts Per Hoist
115F	TCR426286570	Top Yoke Assy.	1
115G	9091297	Socket Bolt	2
115H	9012712	Spring Washer	2
115J	9098508	U-Nut	2
117	TCR426286580	Chain Pin	1
118	TCR426286630	Free Limit Lock	1
119	LCES010	Load Chain	FT
120	TCR426286620	Holder	1
121	TCR426266390	End Stopper	2
122	TCR426001PAC	Bottom Hook Set	1
122A	TCR420645PAA	Hook Assy.	1
122B	TCR420645P10	Hook Latch	1
122C	TCR130802046	Hook Spring	1
122D	TCR130603024	Spring Pin	1
123	TCR420866QG0	Bottom Yoke Assy.	1
124	TCR426001RB0	Idle Sheave	1
125	TCR420866QH0	Bottom Hook Cover	2
126	TCR420866Q10	Bottom Hook Shaft	1
130	9091297	Socket Bolt	2
131	9091293	Socket Bolt	2
134	9098508	U-Nut	2
137	9012712	Spring Washer	2
139	9000606	Bearing	2
127	TCR426266450	Limit Lock	1
128	TCR136206003	Shock Absorber	2
133	TCR426224680	End Bolt	2
135	9098506	U-Nut	1
136	9098504	U Nut	2
138	9012513	Washer	1
139*	TCR426266C80	Limit Washer*	1
140*	TCR130802219	Chain Spring*	3

* Version C hoists only.

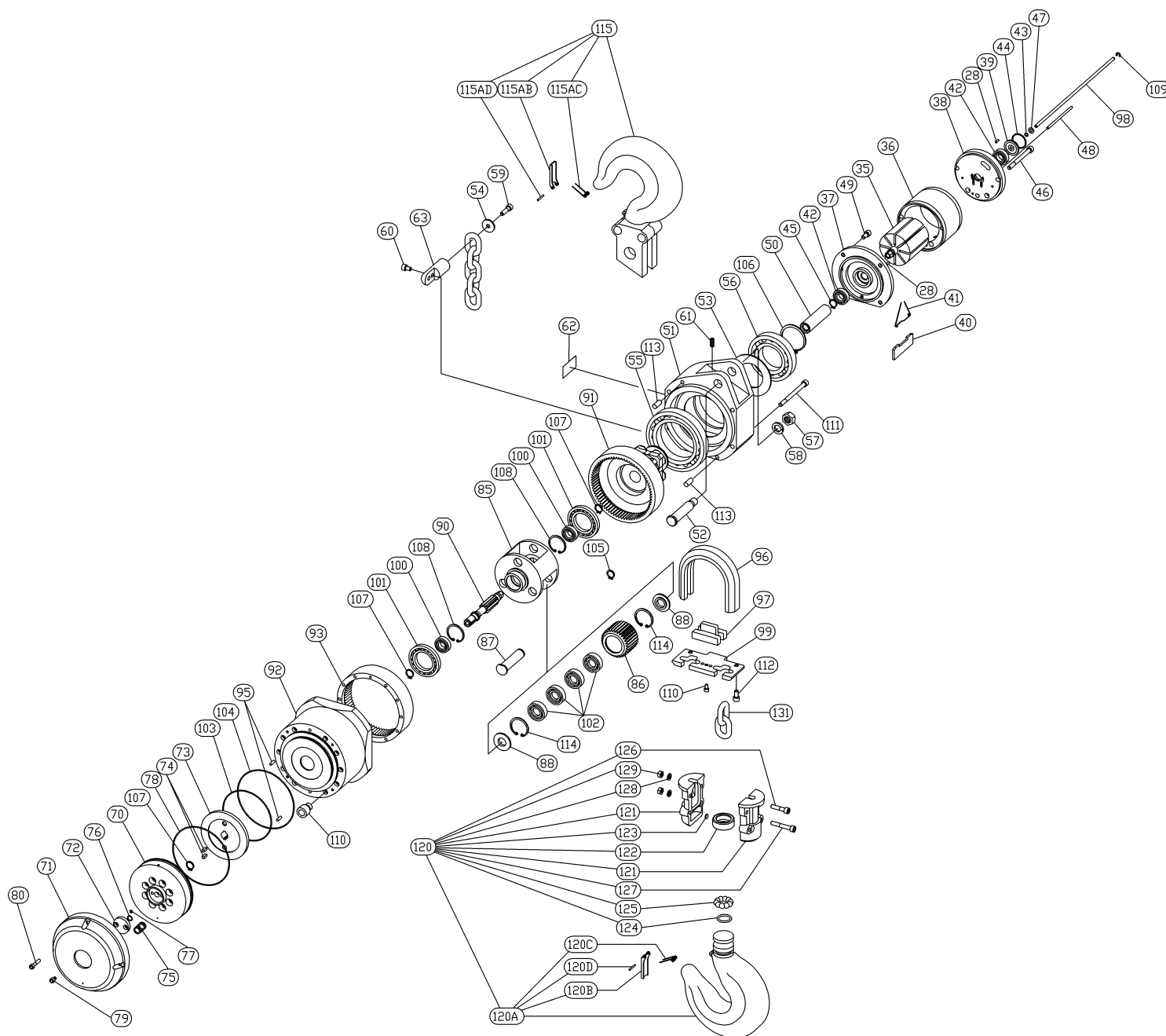


Figure 10-5 TCR3000 Main Body

Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426325150	Rotor	1
36	TCR426325160	Stator	1
37	TCR426325170	Front Plate	1
38	TCR426325180	Rear Plate	1
39	TCR426325190	Rear Retainer	1
40	TCR137102022	Vane	8
41	TCR130802212	Vane Spring	8
42	9000103	Bearing	2
43	TCR131103004	O-Ring	1
44	TCR131103026	O Ring	1
45	9047117	Retaining Ring	1
46	9091288	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402054	Knock Pin	1
49	9091269	Socket Bolt	4
50	TCR426325200	Coupling	1
51	TCR426325212	Wheel Housing	1
52	TCR426325220	Top Pin	1
53	TCR426325230	Spacer	1
54	TCR420875MNO	Chain End Set Washer	1
55	9000119	Bearing	1
56	9000212	Bearing	1
57	9098516	U Nut	1
58	9012715	Spring Washer	1
59	9091274	Socket Bolt	1
60	9091269	Socket Bolt	2
61	TCR132108020	Set Screw	1
62	TCR137309075	Brand Name Plate	1
63	TCR426325730	Set Piece	1
70	TCR426325400	Brake Piston	1
71	TCR426325410	Brake Cover	1
72	TCR426325420	Piston Cover	1
73	TCR426325430	Brake Disk	1
74	TCR130408084	Key	2

Figure Number	Part Number	Part Name	Parts Per Hoist
75	TCR130802213	Disc Spring	6
76	TCR131103008	O-Ring	1
77	TCR131101004	O-Ring	1
78	TCR131103063	O Ring	1
79	9091247	Socket Bolt	2
80	9091252	Socket Bolt	4
85	TCR426325240	Cage	1
86	TCR426325250	Star Gear	3
87	TCR426325260	Pin	3
88	TCR426325270	Thrust Collar	6
90	TCR426325290	Pinion	1
91	TCR426325300	Load Sheave	1
92	TCR426325310	Gear Case	1
93	TCR426325320	Ring Gear	1
95	TCR426325340	Dowel Pin	4
96	TCR426325351	Chain Guide	1
97	TCR426325360	Chain Separator	1
98	TCR426325380	Brake Tube	1
99	TCR426325371	Bottom Plate	1
100	9000103	Bearing	2
101	9000109	Bearing	2
102	9000104	Bearing	12
103	TCR131103058	O Ring	1
104	TCR131103063	O Ring	1
105	9047120	Retaining Ring	3
106	9047160	Retaining Ring	1
107	9047117	Retaining Ring	3
108	9047235	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	12
111	9091284	Socket Bolt	4
112	9091271	Socket Bolt	2
113	TCR130406028	Parallel Pin	2
114	9047245	Retaining Ring	6

Figure Number	Part Number	Part Name	Parts Per Hoist
115	TCR42632557B	Top Hook Set	1
115AB	TCR420655P10	Hook Latch	1
115AC	TCR130802046	Hook Spring	1
115AD	TCR130603024	Spring Pin	1
120	TCR420875PAH	Bottom Hook Set	1
120A	TCR420875PAA	Bottom Hook Assy.	1
120B	TCR420655P10	Hook Latch	1
120C	TCR130802046	Hook Spring	1
120D	TCR130603024	Spring Pin	1
121	TCR420875PZ1	Bottom Yoke Assy.	1
122	TCR420875PW0	Outer Bearing Race	1
123	TCR420875PY0	Swivel Hook Plug	1
124	TCR131101025	O Ring	1
125	TCR130502024	Steel Ball	10
126	9091275	Socket Bolt	2
127	9091278	Socket Bolt	2
128	9012711	Spring Washer	4
129	9098506	U-Nut	4
131	LCER025C	Load Chain	FT

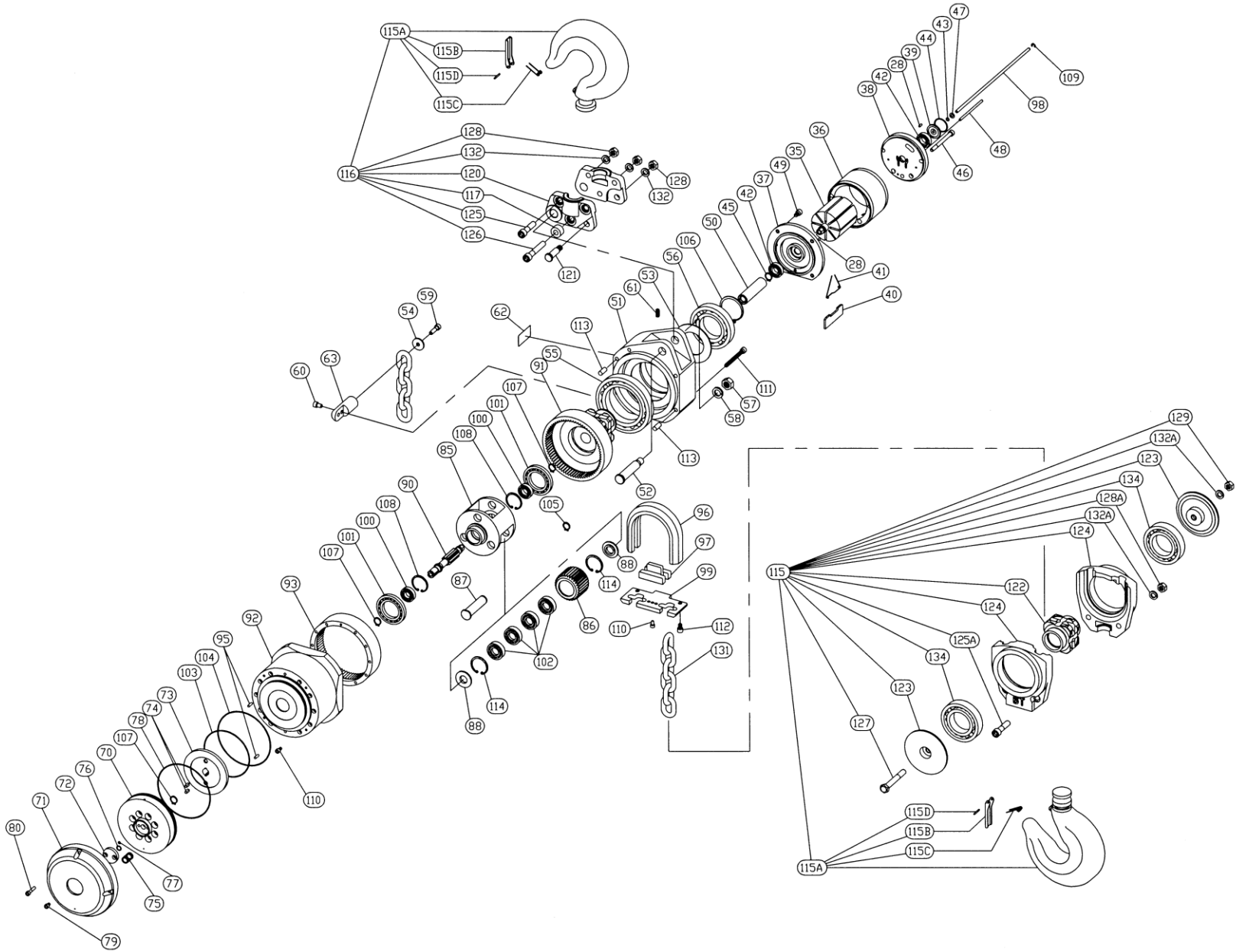


Figure 10-6 TCR6000-2 Main Body

Figure Number	Part Number	Part Name	Parts Per Hoist
28	TCR130406005	Parallel Pin	2
35	TCR426325150	Rotor	1
36	TCR426325160	Stator	1
37	TCR426325170	Front Plate	1
38	TCR426325180	Rear Plate	1
39	TCR426325190	Rear Retainer	1
40	TCR137102022	Vane	8
41	TCR130802212	Vane Spring	8
42	9000103	Bearing	2
43	TCR131103004	O-Ring	1
44	TCR131103026	O Ring	1
45	9047117	Retaining Ring	1
46	9091288	Socket Bolt	3
47	9012511	Washer	1
48	TCR130402054	Knock Pin	1
49	9091269	Socket Bolt	4
50	TCR426325200	Coupling	1
51	TCR426325212	Wheel Housing	1
52	TCR426325220	Top Pin	1
53	TCR426325230	Spacer	1
54	TCR420875MN0	Chain End Set Washer	1
55	9000119	Bearing	1
56	9000212	Bearing	1
57	9098516	U Nut	1
58	9012715	Spring Washer	1
59	9091274	Socket Bolt	1
60	9091269	Socket Bolt	2
61	TCR132108020	Set Screw	1
62	TCR137309075	Brand Name Plate	1
63	TCR426325730	Set Piece	1
70	TCR426325400	Brake Piston	1
71	TCR426325410	Brake Cover	1
72	TCR426325420	Piston Cover	1
73	TCR426325430	Brake Disk	1

Figure Number	Part Number	Part Name	Parts Per Hoist
74	TCR130408084	Key	2
75	TCR130802213	Disc Spring	6
76	TCR131103008	O-Ring	1
77	TCR131101004	O-Ring	1
78	TCR131103063	O Ring	1
79	9091247	Socket Bolt	2
80	9091252	Socket Bolt	4
85	TCR426325240	Cage	1
86	TCR426325250	Star Gear	3
87	TCR426325260	Pin	3
88	TCR426325270	Thrust Collar	6
90	TCR426325290	Pinion	1
91	TCR426325300	Load Sheave	1
92	TCR426325310	Gear Case	1
93	TCR426325320	Ring Gear	1
95	TCR426325340	Dowel Pin	4
96	TCR426325351	Chain Guide	1
97	TCR426325360	Chain Separator	1
98	TCR426325380	Brake Tube	1
99	TCR426325371	Bottom Plate	1
100	9000103	Bearing	2
101	9000109	Bearing	2
102	9000104	Bearing	12
103	TCR131103058	O Ring	1
104	TCR131103063	O Ring	1
105	9047120	Retaining Ring	3
106	9047160	Retaining Ring	1
107	9047117	Retaining Ring	3
108	9047235	Retaining Ring	2
109	TCR130303005	Retaining Ring	1
110	9091247	Socket Bolt	12
111	9091284	Socket Bolt	4
112	9091271	Socket Bolt	2
114	9047245	Retaining Ring	6

Figure Number	Part Number	Part Name	Parts Per Hoist
116	TCR4200HH006	Top Hook Set	1
115A	TCR420890PAB	Hook Assy.	1
115B	TCR420890P10	Hook Latch	1
115C	TCR130802046	Hook Spring	1
115D	TCR130603024	Spring Pin	1
117	TCR426335690	Hook Anchor	1
120	TCR420890QF0	Top Yoke Assy.	1
121	TCR420890JG0	Chain Pin	1
125	90912118	Socket Bolt	2
126	90912121	Socket Bolt	1
128	9098511	U Nut	4
132	9012713	Spring Washer	4
115	TCR420890PAC	Bottom Hook Set	1
115A	TCR420890PAB	Hook Assy.	1
115B	TCR420890P10	Hook Latch	1
115C	TCR130802046	Hook Spring	1
115D	TCR130603024	Spring Pin	1
122	TCR420890RB0	Idle Sheave	1
123	TCR420890QH0	Bottom Hook Cover	2
124	TCR420890QG0	Bottom Yoke Assy. Pr.	1 PR
125A	90912118	Socket Bolt	2
127	9093155	Hex Head Bolt	1
128A	9098511	U Nut	2
129	9093433	Hex Nut	1
132A	9012713	Spring Washer	3
134	9000611	Bearing	2
131	LCER025C	Load Chain	FT

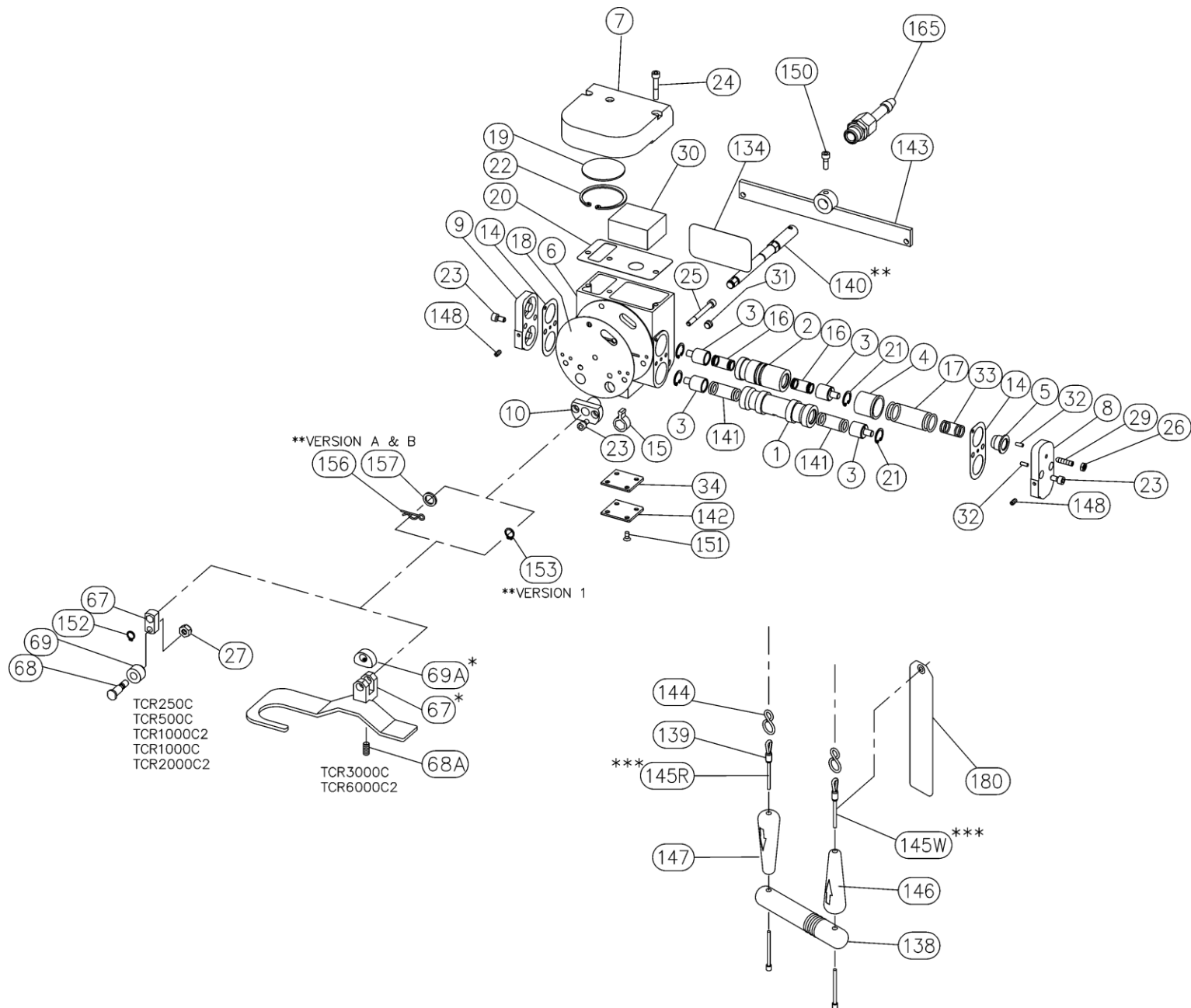


Figure 10-7 Cord Control Valve Body – Versions 1, A and B Hoists

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250C TCR500C TCR1000C2 TCR1000C TCR2000C2	TCR3000C TCR6000C2		
1	TCR426224012	TCR426325010	Main Spool****	1
2	TCR426224020		Brake Spool****	1
3	TCR426224030		Spool Retainer****	4
4	TCR426224040		Brake Retainer****	1
5	TCR426224050		Brake Nut	1
6	TCR426224061	TCR426325060	Valve Body Version 1 & A****	1
	TCR426224062	TCR426325061	Valve Body Version B****	
7	TCR426224070		Top Cover	1
8	TCR426224081		Side Cover (L) Version 1 & A	1
	TCR426224082		Side Cover (L) Version B	
9	TCR426224091		Side Cover (R) Version 1 & A	1
	TCR426224092		Side Cover (R) Version B	
10	TCR426224100		Limit Guide	1
14	TCR136102160		Side Packing	2
15	TCR426224140		Limit Lever	1
16	TCR130802210		Brake Spring	2
17	TCR130802211		Limit Spring	1
18	TCR136102161		Valve Packing	1
19	TCR426224A90		Exhaust Plate	1
20	TCR136102162	TCR136102192	Top Packing	1
21	9047219		Retaining Ring	4
22	9047258		Retaining Ring	1
23	9091247		Socket Bolt	6
24	9091253		Socket Bolt	3
25	9091258		Socket Bolt	3
26	9093420		Hex Nut	1
27	9098506		U-Nut	1
29	TCR132306028		Set Screw	1
30	TCR137402031		Nylon Silencer	1
31	TCR134902003		Hex Socket Pipe Plug	3
32	TCR130604010		Spring Pin	2
33	TCR130821418		Spring	1
34	TCR136102163		Under Packing	1
69*	TCR426224110	TCR426325113	Chain Lever*	1

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250C TCR500C TCR1000C2 TCR1000C TCR2000C2	TCR3000C TCR6000C2		
68	TCR426224120		Roller Shaft	1
68A		TCR132108016	Set Screw	1
69	TCR426224130		Limit Roller	1
69A*		TCR426325740	Cam*	1
134	TCR137309277		Name Plate 250	1
	TCR137309276		Name Plate 500	
	TCR137309278		Name Plate 1000, 1000-2	
	TCR137309280		Name Plate 2000-2	
		TCR137309282	Name Plate 3000	
		TCR137309288	Name Plate 6000-2	
138	AH136602627		Handle	1
139	TCR1302CRIMP		Rope Crimp	2
140**	TCR426225461	TCR426326461	Limit Shaft**	1
141	TCR130802215		Main Spring	2
142	TCR426225470		Under Cover	1
143	TCR426225540		Cord Lever	1
144	TCR130802081		S-Type Wire	2
145W	9013101		White Cord (Up)	FT***
145R	9013102		Red Cord (Down)	FT***
146	AH136602625		Throttle Valve Grip (Up)	1
147	AH136602626		Throttle Valve Grip (Down)	1
148	9091301		Set Screw Versions 1 & A	3
	TCR134902003		Hex Socket Pipe Plug Version B	3
150	9091250		Socket Bolt	1
151	TCR132805010		Hex Flat Head Machine Screw	4
152	9047110		Retaining Ring	1
153	9047112		Retaining Ring Version 1	1
156	TCR130790012		Hairpin Cotter Versions A & B	1
157	TCR426325750		Washer Version A & B	1
165	TCR1350005HH	TCR420845DHH	Hose Stem Assembly	1
180	WTAG7		Warning Tag	1

* Replacing the one-piece Chain Lever (#67) on 3 and 6 Ton version 1 hoists.

Hoist requires figure numbers 67 and 69A.

** Replacing limit shaft (#140) on version 1 hoists requires figure numbers 140, 156 and 157.

*** Specify the hoist's lift or the required cord drop when ordering.

****Discontinued. Replacement of complete Control Valve Body available. See Figure 10-11 Replacement Control Valve Body Assembly.

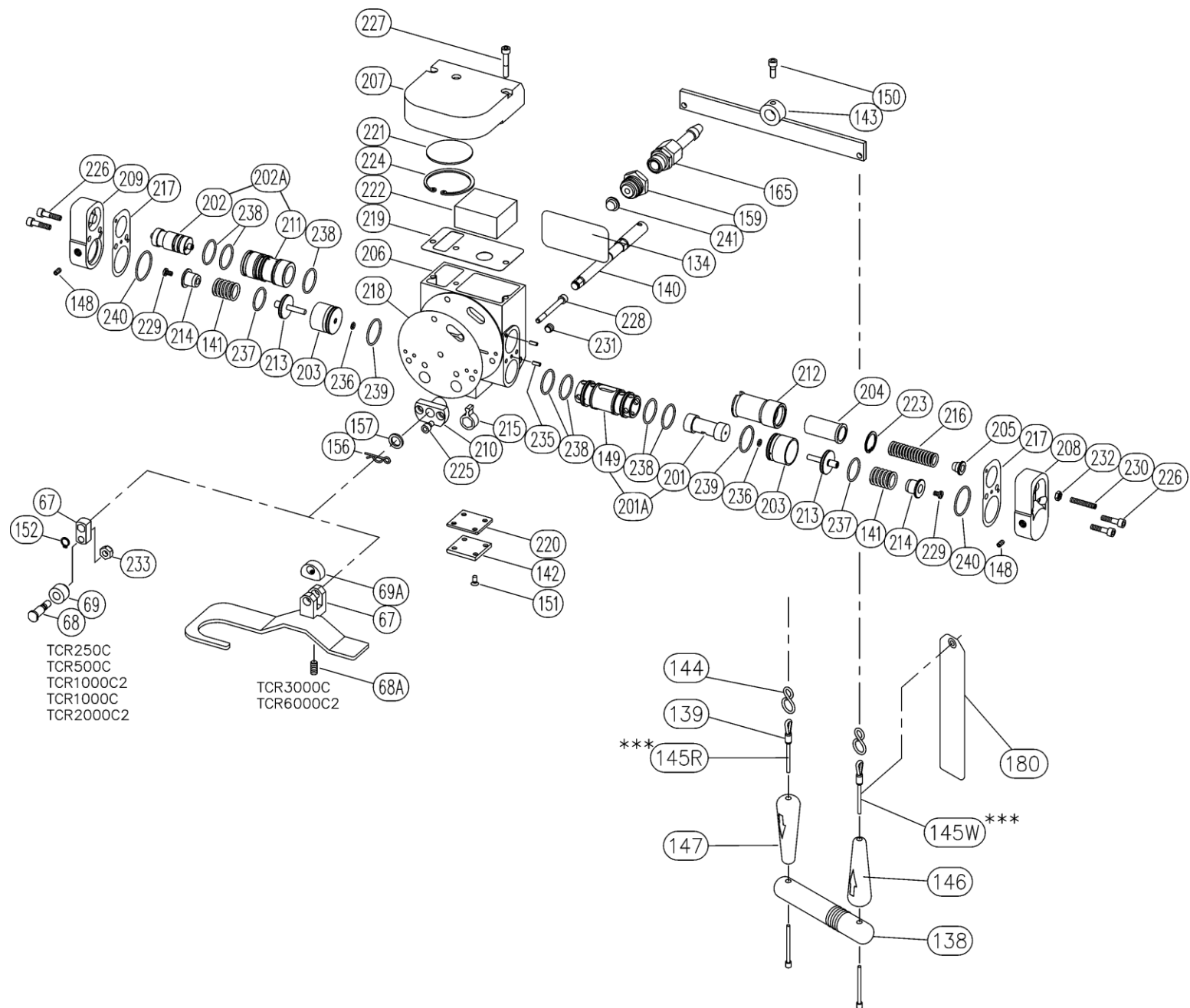


Figure 10-8 Cord Control Valve Body – Version C Hoists

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250C TCR500C TCR1000C2 TCR1000C TCR2000C2	TCR3000C TCR6000C2		
67	TCR426224110	TCR426325113	Chain Lever	1
68	TCR426224120		Roller Shaft	1
68A		TCR132108008	Set Screw	1
69	TCR426224130		Limit Roller	1
69A		TCR426325740	Cam	1
134	TCR137309277		Name Plate 250	1
	TCR137309276		Name Plate 500	
	TCR137309278		Name Plate 1000, 1000-2	
	TCR137309280		Name Plate 2000-2	
		TCR137309282	Name Plate 3000	
		TCR137309288	Name Plate 6000-2	
138	AH136602627		Handle	1
139	TCR1302CRIMP		Rope Crimp	2
140	TCR426225461	TCR426326461	Limit Shaft	1
141	TCR130802217		Spring	2
142	TCR426225470		Under Cover	1
143	TCR426225540		Cord Lever	1
144	TCR130802081		S-Type Wire	2
145W*	9013101		White Cord (Up)	FT*
145R*	9013102		Red Cord (Down)	FT*
146	AH136602625		Throttle Valve Grip (Up)	1
147	AH136602626		Throttle Valve Grip(Down)	1
148	TCR134902003		Hex Socket Pipe Plug	3
150	9091250		Socket Bolt	1
151	TCR132805010		Hex Flat Head Mach. Screw	4
152	9047110		Retaining Ring	1
156	TCR130790012		Hairpin Cotter	1
157	TCR426325750		Washer	1
159	TCR134703060	TCR134703070	Inlet Bushing	1
165	TCR1350005HH	TCR420845DHH	Hose Stem Assembly	1
180	WTAG7		Warning Tag	1
201A	TCR426224C3B	TCR426325C3B	Spool-Main Bushing Set	1
149	TCR426224C30	TCR426325C30	Main Bushing	1
201	TCR426224013		Main Spool	1
202A	TCR426224C4B		Brake Spool-Bushing Set	1
202	TCR426224021		Brake Spool	1
211	TCR426224C40		Brake Bushing	1

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250C TCR500C TCR1000C2 TCR1000C TCR2000C2	TCR3000C TCR6000C2		
203	TCR426224C20		Spool Cylinder	2
204	TCR426224041		Brake Retainer	1
205	TCR426224051		Brake Nut	1
206	TCR426224063		Valve Body	1
207	TCR426224070		Top Cover	1
208	TCR426224083		Side Cover (L)	1
209	TCR426224093		Side Cover (R)	1
210	TCR426224101		Limit Guide	1
212	TCR426224C50		Limit Bushing	1
213	TCR426224C60		Spool Piston	2
214	TCR426224C70		Spring Seat	2
215	TCR426224140		Limit Lever	1
216	TCR130802216		Spring	1
217	TCR136102164		Side Packing	2
218	TCR136102161		Valve Packing	1
219	TCR136102162	TCR136102192	Top Packing	1
220	TCR136102163		Under Packing	1
221	TCR426224A90		Exhaust Plate	1
222	TCR137402031		Nylon Silencer	1
223	9047225		Retaining Ring	1
224	9047258		Retaining Ring	1
225	9091247		Socket Bolt	2
226	9091251		Socket Bolt	4
227	9091254		Socket Bolt	3
228	9091258		Socket Bolt	3
229	9798532		Machine Screw	2
230	TCR132306035		Set Screw	1
231	TCR134902003		Hex Socket Pipe Plug	3
232	9093420		Hex Nut	1
233	9098506		U-Nut	1
235	TCR130604010		Spring Pin	2
236	TCR131103004		O-Ring	2
237	TCR131103021		O-Ring	2
238	TCR131103022		O-Ring	7
239	TCR131103024		O-Ring	2
240	TCR131103027		O-Ring	2
241	TCR136803032		Screen	1

*Specify the hoist's lift or the required pendant drop when ordering.

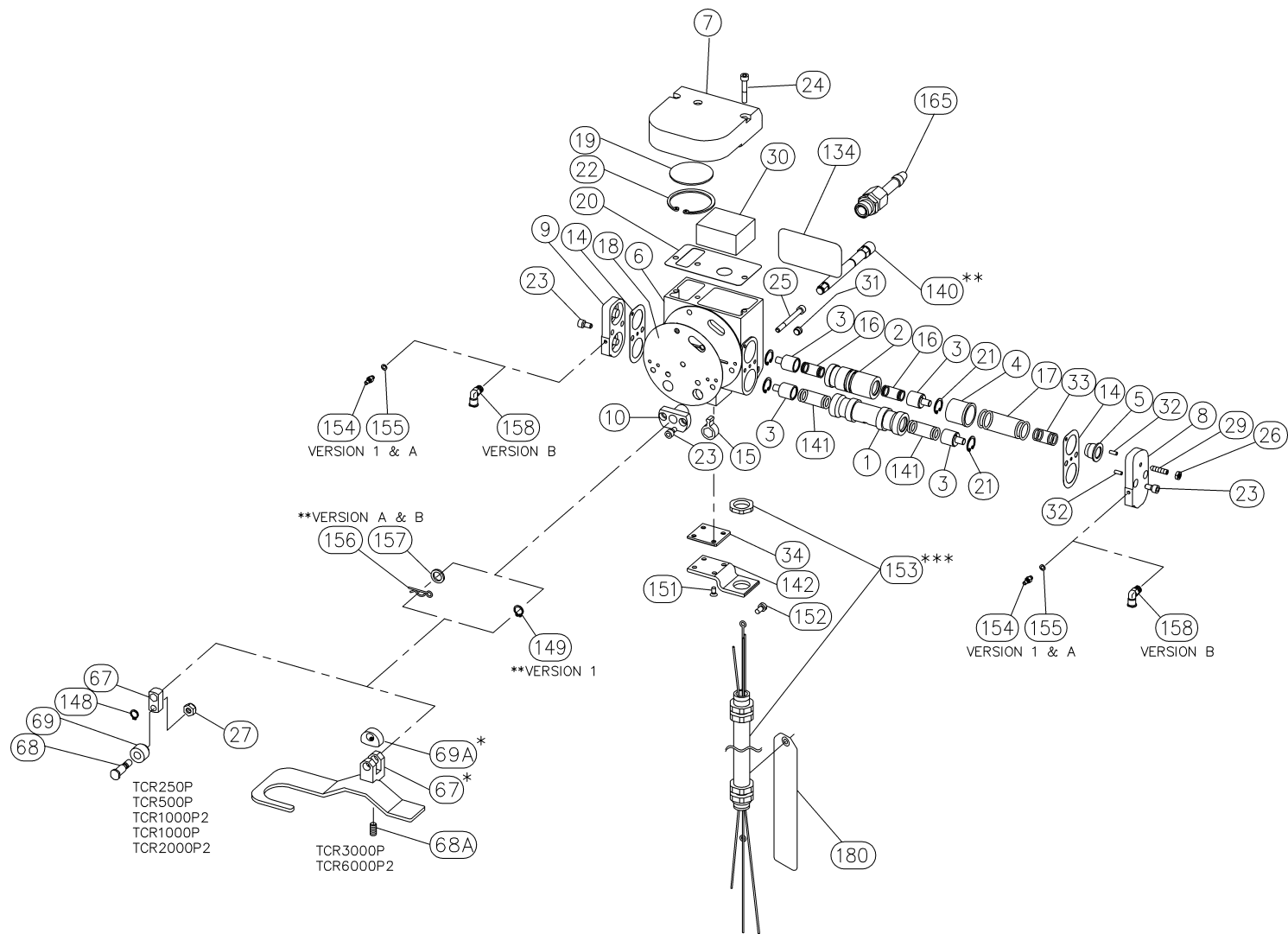


Figure 10-9 Pendant Control Valve Body – Versions 1, A and B Hoists

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250P TCR500P TCR1000P2 TCR1000P TCR2000P2	TCR3000P TCR6000P2		
1	TCR426224012	TCR426325010	Main Spool****	1
2	TCR426224020		Brake Spool****	1
3	TCR426224030		Spool Retainer****	4
4	TCR426224040		Brake Retainer****	1
5	TCR426224050		Brake Nut	1
6	TCR426224061	TCR426325060	Valve Body Version 1 & A****	1
	TCR426224062	TCR426325061	Valve Body Version B****	
7	TCR426224070		Top Cover	1
8	TCR426224081		Side Cover (L) Version 1 & A	1
	TCR426224082		Side Cover (L) Version B	
9	TCR426224091		Side Cover (R) Version 1 & A	1
	TCR426224092		Side Cover (R) Version B	
10	TCR426224100		Limit Guide	1
14	TCR136102160		Side Packing	2
15	TCR426224140		Limit Lever	1
16	TCR130802210		Brake Spring	2
17	TCR130802211		Limit Spring	1
18	TCR136102161		Valve Packing	1
19	TCR426224A90		Exhaust Plate	1
20	TCR136102162	TCR136102192	Top Packing	1
21	9047219		Retaining Ring	4
22	9047258		Retaining Ring	1
23	9091247		Socket Bolt	6
24	9091253		Socket Bolt	3
25	9091258		Socket Bolt	3
26	9093420		Hex Nut	1
27	9098506		U-Nut	1
29	TCR132306028		Set Screw	1
30	TCR137402031		Nylon Silencer	1
31	TCR134902003		Hex Socket Pipe Plug	3
32	TCR130604010		Spring Pin	2
33	TCR130821418		Spring	1

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250P TCR500P TCR1000P2 TCR1000P TCR2000P2	TCR3000P TCR6000P2		
34	TCR136102163		Under Packing	1
67*	TCR426224110	TCR426325113	Chain Lever*	1
68	TCR426224120		Roller Shaft	1
68A		TCR132108016	Set Screw	1
69	TCR426224130		Limit Roller	1
69A*		TCR426325740	Cam*	1
134	TCR137309277		Name Plate 250	1
	TCR137309276		Name Plate 500	
	TCR137309278		Name Plate 1000, 1000-2	
	TCR137309280		Name Plate 2000-2	
		TCR137309282	Name Plate 3000	
		TCR137309288	Name Plate 6000-2	
140**	TCR426224461	TCR426325461	Limit Shaft**	1
141	TCR130802214	TCR130821123	Main Spring	2
142	TCR426224471		Under Cover****	1
148	9047110		Retaining Ring	1
149	9047112		Retaining Ring Version 1	1
151	TCR132805010		Hex Flat Head Machine Screw	4
152	TCR132506012		Slotted Head Machine Screw	2
153	TCR137240020		Pendant Hose Assy.	FT***
154	TCR426221E20		Hose Nipple Version 1 & A	3
155	TCR136102094		Seal Washer Version 1 & A	3
156	TCR130790012		Hairpin Cotter Versions A & B	1
157	TCR426325750		Washer Version A & B	1
158	9013137		90° Tube Fitting Version B	3
165	TCR1350005HH	TCR420845DHH	Hose Stem Assy.	1
180	WTAG7		Warning Tag	1

* Replacing the one-piece Chain Lever (#67) on 3 and 6 Ton version 1 hoists.

Hoist requires figure numbers 67 and 69A.

** Replacing limit shaft (#140) on version 1 hoists requires figure numbers 140, 156 and 157.

*** Specify the hoist's lift or the required pendant drop when ordering.

****Discontinued. Replacement of complete Control Valve Body available. See Figure 10-11 Replacement Control Valve Body Assembly

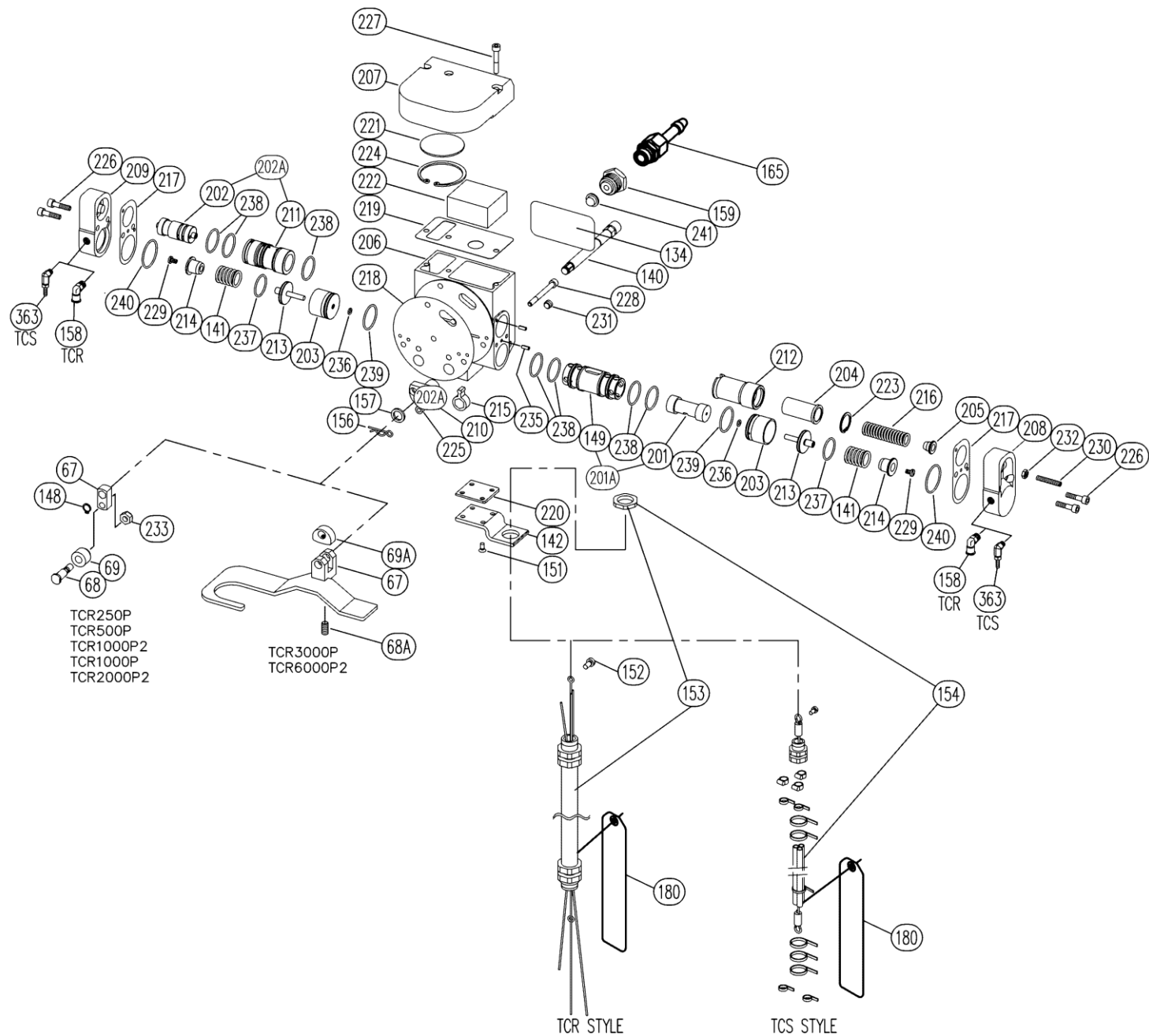


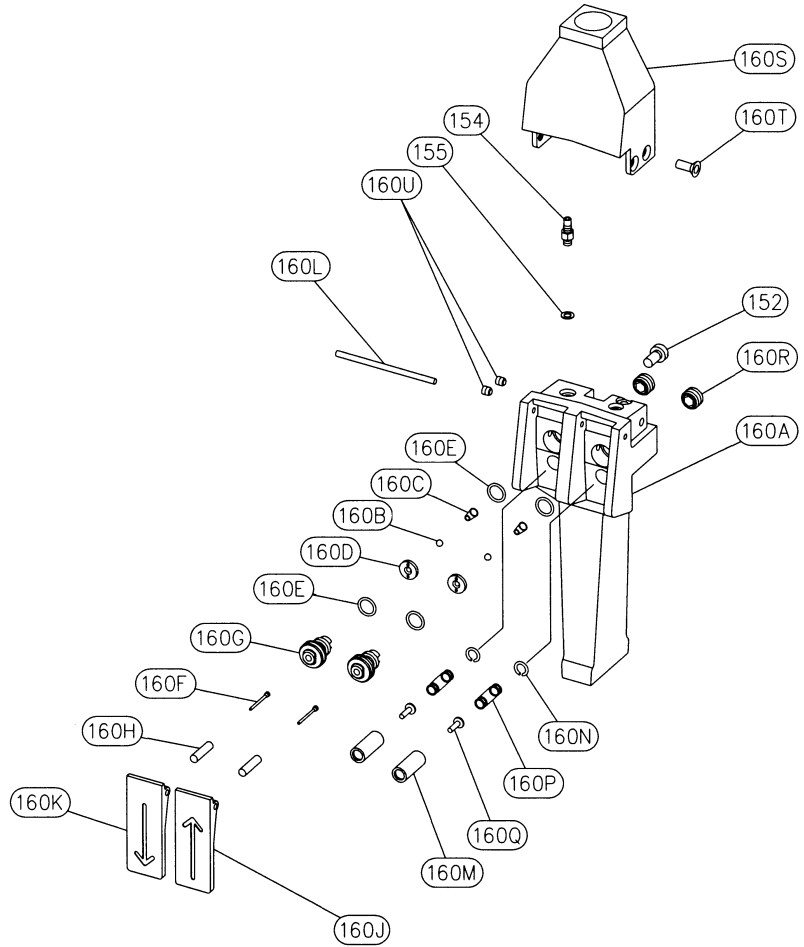
Figure 10-10 Pendant Control Valve Body – Version C Hoists

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250P TCR500P TCR1000P2 TCR1000P TCR2000P2	TCR3000P TCR6000P2		
67	TCR426224110	TCR426325113	Chain Lever	1
68	TCR426224120		Roller Shaft	1
68A		TCR132108008	Set Screw	1
69	TCR426224130		Limit Roller	1
69A		TCR426325740	Cam	1
134	TCR137309277		Name Plate 250	1
	TCR137309276		Name Plate 500	
	TCR137309278		Name Plate 1000, 1000-2	
	TCR137309280		Name Plate 2000-2	
		TCR137309282	Name Plate 3000	
		TCR137309288	Name Plate 6000-2	
140	TCR426224461	TCR426235461	Limit Shaft	1
141	TCR130802217		Spring	2
142	TCR426224472		Under Cover	1
148	9047110		Retaining Ring	
151	TCR132805010		Hex Flat Head Machine Screw	4
152	TCR132506012		Slotted Head Machine Screw	1
153*	TCR137240020		Pendant Hose Assembly (Tcr Style)	FT*
154*	7008499		Pendant Hose Assembly (Tcs Style)	FT*
156	TCR130790012		Hairpin Cotter	1
157	TCR426325750		Washer	1
158	9013137		90 Degree Tube Fitting	3
159	TCR134703060	TCR134703070	Inlet Bushing	1
165	TCR1350005HH	TCR420845DHH	Hose Stem Assembly	1
180	WTAG7		Warning Tag	1
201A	TCR426224C3B	TCR426325C3B	Spool-Main Bushing Set	1
149	TCR426224C30	TCR426325C30	Main Bushing	1
201	TCR426224013		Main Spool	1
202A	TCR426224C4B		Brake Spool-Bushing Set	1
202	TCR426224021		Brake Spool	1
211	TCR426224C40		Brake Bushing	1
203	TCR426224C20		Spool Cylinder	2
204	TCR426224041		Brake Retainer	1
205	TCR426224051		Brake Nut	1
206	TCR426224063		Valve Body	1
207	TCR426224070		Top Cover	1

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250P TCR500P TCR1000P2 TCR1000P TCR2000P2	TCR3000P TCR6000P2		
208	TCR426224083		Side Cover (L)	1
209	TCR426224093		Side Cover (R)	1
210	TCR426224101		Limit Guide	1
212	TCR426224C50		Limit Bushing	1
213	TCR426224C60		Spool Piston	2
214	TCR426224C70		Spring Seat	2
215	TCR426224140		Limit Lever	1
216	TCR130802216		Spring	1
217	TCR136102164		Side Packing	2
218	TCR136102161		Valve Packing	1
219	TCR136102162	TCR136102192	Top Packing	1
220	TCR136102163		Under Packing	1
221	TCR426224A90		Exhaust Plate	1
222	TCR137402031		Nylon Silencer	1
223	9047225		Retaining Ring	1
224	9047258		Retaining Ring	1
225	9091247		Socket Bolt	2
226	9091251		Socket Bolt	4
227	9091254		Socket Bolt	3
228	9091258		Socket Bolt	3
229	9798532		Machine Screw	2
230	TCR132306035		Set Screw	1
231	TCR134902003		Hex Socket Pipe Plug	3
232	9093420		Hex Nut	1
233	9098506		U-Nut	1
235	TCR130604010		Spring Pin	2
236	TCR131103004		O-Ring	2
237	TCR131103021		O-Ring	2
238	TCR131103022		O-Ring	7
239	TCR131103024		O-Ring	2
240	TCR131103027		O-Ring	2
241	TCR136803032		Screen	1
363	TCR135106303		90 Degree Fitting (Tcs Style)	3

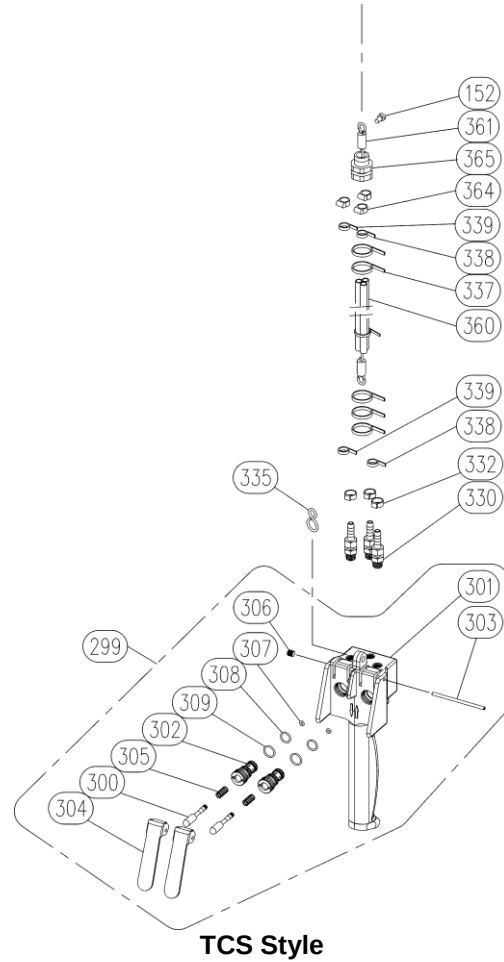
*Specify the hoist's lift or the required pendant drop when ordering.

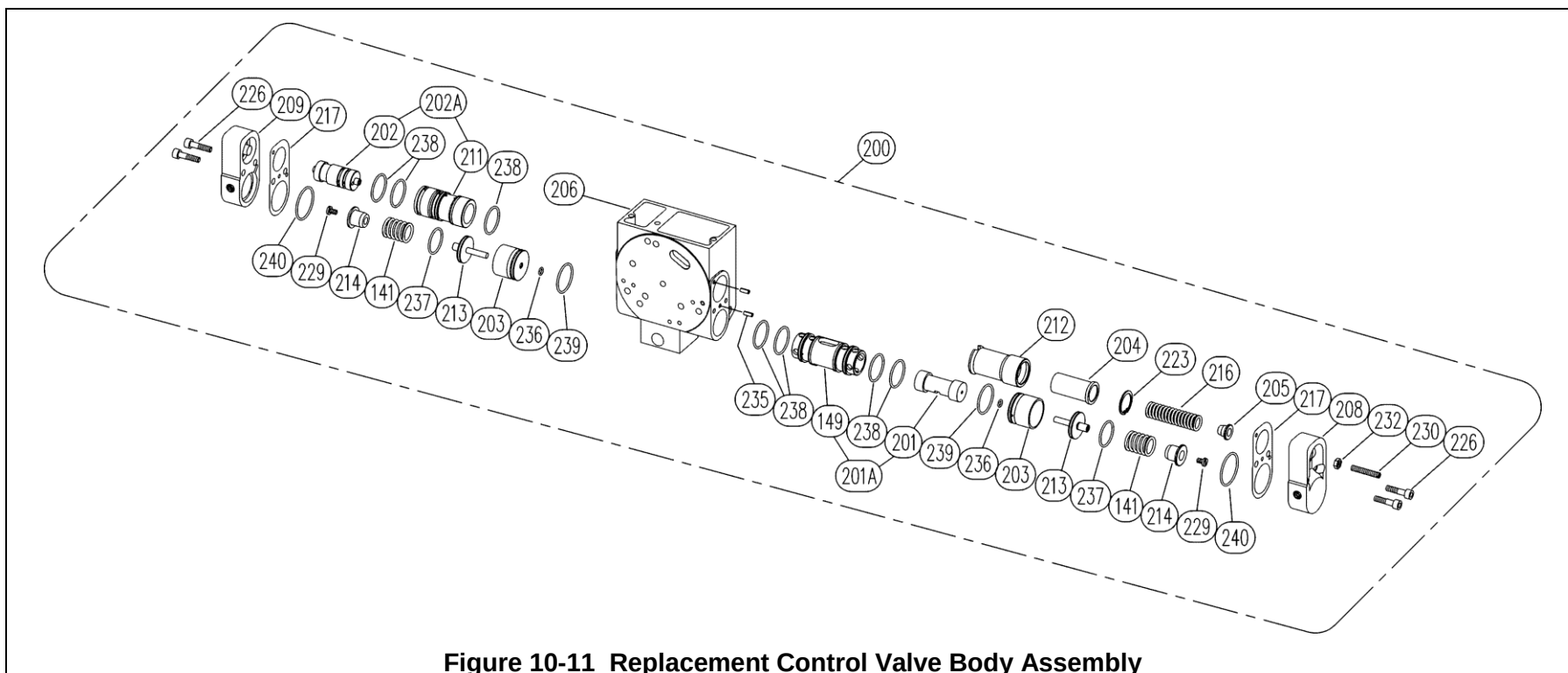
Figure Number	Part Number	Part Name	Parts Per Handle
152	TCR132506012	Slotted Head Machine Screw	1
154	TCR426221E20	Hose Nipple	3
155	TCR136102094	Seal Washer	3
160	TCR42622452D	Pendant Handle Cp	1
160A	TCR426224520	Control Handle	1
160B	TCR130501004	Steel Ball	2
160C	TCR130802255	Pendant Valve Spring	2
160D	TCR426221H30	Pendant Valve Seat	2
160E	TCR131103008	O-Ring	4
160F	TCR426224480	Control Spool	2
160G	TCR426224530	Control Bush	2
160H	TCR426221H60	Push Rod	2
160J	TCR136602023	Valve Lever (U)	1
160K	TCR136602024	Valve Lever (D)	1
160L	TCR130402006	Lever Pin	1
160M	TCR426221H90	Buffer Sleeve	2
160N	TCR130305007	Cir-Clip	2
160P	TCR130802256	Buffer Spring	2
160Q	TCR426221J20	Buffer Rod	2
160R	TCR132112010	Set Screw	2
160S	TCR426221J40	Handle Cover	1
160T	TCR132805010	Hex Flat Head Machine Screw	4
160U	TCR132105005	Set Screw	2



TCR Style

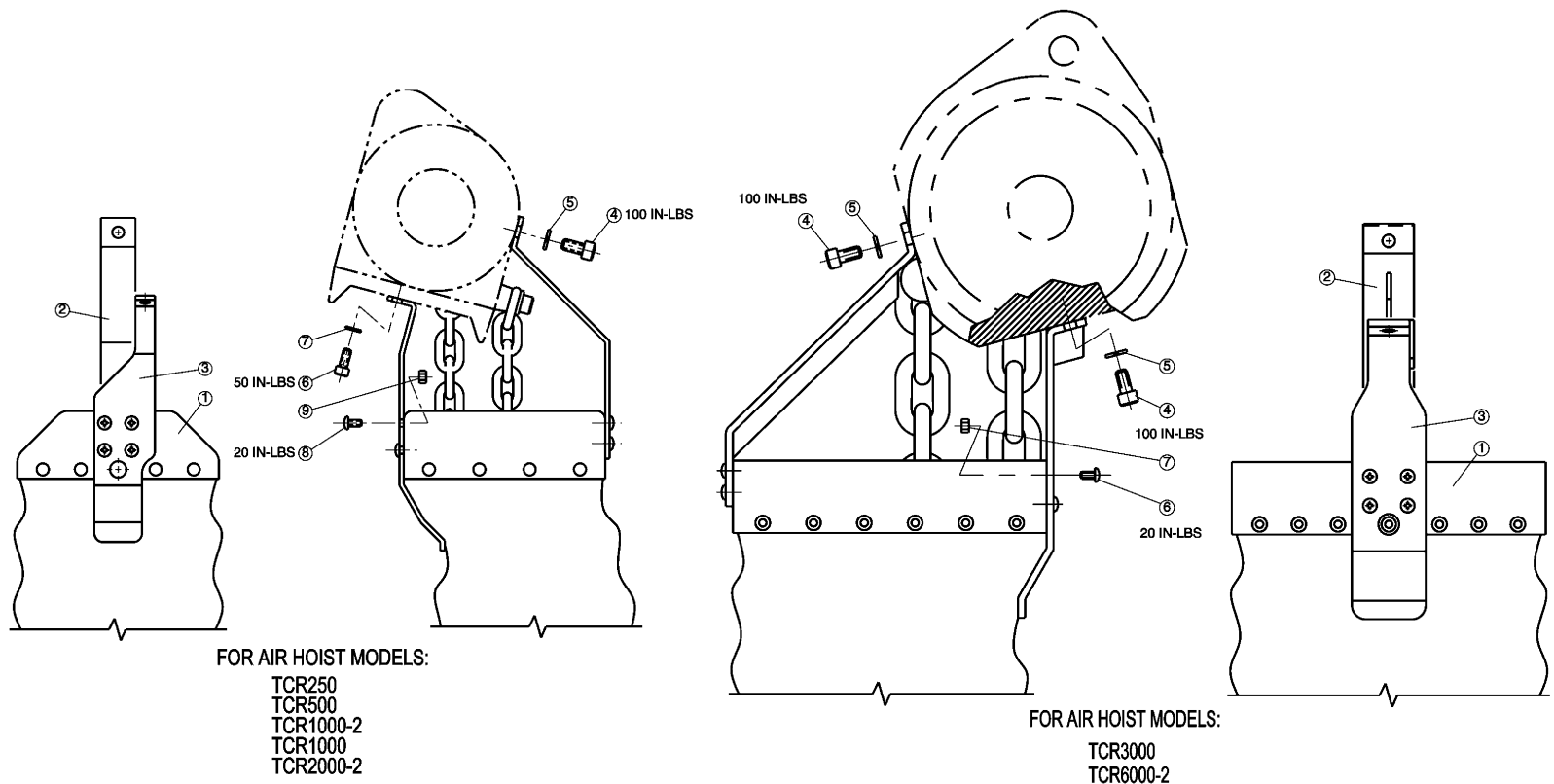
Figure Number	Part Number	Part Name	Parts Per Handle
152	TCR132506012	Slotted Flat Head Machine Screw	1
330	TCS135106302	Hose Joint	3
332	TCS137501013	Hose Band	3
335	TCR130802081	S-Type Wire	1
338	TCS137502036	Cable Tie - White	2
339	TCS137502037	Cable Tie - Black	2
360	9013156	Tcs Hose	AR
361	9013120	Strain Relief Cable	AR
364	9013155	Hose Clamp	6
365	TCR135111022	Connector For Under Cover	1
299	TCS420226VRD	Pendant Handle Cp	1
300	TCR420218VB0	Throttle Valve	2
301	TCS420226VR0	Valve Body	1
302	TCR420218VF0	Bushing	2
303	TCS130402071	Lever Pin	1
304	TCS420218VH0	Lever	2
305	TCS130802220	Spring	2
306	TCS132106006	Hex.Socket Set Screw	1
307	TCS131109001	O-Ring	2
308	TCR131103008	O-Ring	2
309	TCS131103009	O-Ring	2





Replacement control valve body may be used for replacement of version 1, A or B control valve. Additional part may be required, dependent upon cord or pendant type model.

Figure Number	Part Number		Part Name	Parts Per Hoist
	TCR250P TCR500P TCR1000P2 TCR1000P TCR2000P2	TCR3000P TCR6000P2		
200	TCR426274D7D	TCR426342D7D	Control Valve Assembly	1
141	TCR130802217		Spring	2
201A	TCR426224C3B	TCR426325C3B	Spool-Main Bushing Set	1
149	TCR426224C30	TCR426325C30	Main Bushing	1
201	TCR426224013		Main Spool	1
202A	TCR426224C4B		Brake Spool-Bushing Set	1
202	TCR426224021		Brake Spool	1
211	TCR426224C40		Brake Bushing	1
203	TCR426224C20		Spool Cylinder	2
204	TCR426224041		Brake Retainer	1
205	TCR426224051		Brake Nut	1
206	TCR426224063		Valve Body	1
208	TCR426224083		Side Cover (L)	1
209	TCR426224093		Side Cover (R)	1
212	TCR426224C50		Limit Bushing	1
213	TCR426224C60		Spool Piston	2
214	TCR426224C70		Spring Seat	2
216	TCR130802216		Spring	1
217	TCR136102164		Side Packing	2
223	9047225		Retaining Ring	1
226	9091251		Socket Bolt	4
229	9798532		Machine Screw	2
230	TCR132306035		Set Screw	1
232	9093420		Hex Nut	1
235	TCR130604010		Spring Pin	2
236	TCR131103004		O-Ring	2
237	TCR131103021		O-Ring	2
238	TCR131103022		O-Ring	7
239	TCR131103024		O-Ring	2
240	TCR131103027		O-Ring	2



TCR250C TCR500C TCR1000-2 TCR1000 TCR2000-2			
Figure Number	Part Number	Part Name	Parts Per Hoist
—	60395	Chain Container Assy.	1
1	E7SU010S683	Chain Bag	1
2	60392	Bracket A	1
3	60393	Bracket "B"	1
4	9091271	Socket Bolt M8x16	1
5	9012711	Lock Washer M8	1
6	9091248	Socket Bolt M6x14	1
7	9012709	Lock Washer M6	1
8	9798533	Machine Screw M5x10	6
9	9098503	Lock Nut M5	6

TCR3000 TCR6000-2			
Figure Number	Part Number	Part Name	Parts Per Hoist
—	60401	Chain Container Assy.	1
1	E7SU020S683	Chain Bag	1
2	60398	Bracket A	1
3	60399	Bracket "B"	1
4	9091271	Socket Bolt M8x16	2
5	9012711	Lock Washer M8	2
6	9798535	Machine Screw M5x16	8
7	9098503	Lock Nut M5	8

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