
OWNER'S MANUAL SUPPLEMENT

ATEX CERTIFIED SPARK RESISTANT MANUAL CHAIN HOIST/TROLLEY RCB/RTS SERIES

1/2 to 3 Ton Capacities

Code, Lot 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



IMPORTANT INFORMATION ON HOW TO USE THIS MANUAL

This OWNER'S MANUAL SUPPLEMENT is intended for use *in combination* with:

“Owner’s Manual for Manual Chain Hoist CB Series MODEL M3 ½ through 20 Ton Capacity”

“Owner’s Manual for Manual Trolley TF2/TS2 Series”.

Refer to the Table of Contents below to determine the location(s) of information pertaining to your hoist. References to the Owner's Manuals listed above will be designated by the use of the acronym **“M3CBOM”** and **“TF2TS2OM”**.

Table of Contents

Section	Page Number
1.0 Important Information and Warnings	3-5 and M3CBOM/TF2TS2OM
2.0 Technical Information.....	6-11 and Section 1.0/M3CBOM/TF2TS2OM
3.0 Preoperational Procedures	12-13 and Section 1.0/M3CBOM/TF2TS2OM
4.0 Operation	Section 1.0/M3CBOM/TF2TS2OM
5.0 Inspection	14 and Section 1.0/M3CBOM/TF2TS2OM
6.0 Maintenance & Handling	Section 1.0/M3CBOM/TF2TS2OM
7.0 Troubleshooting	M3CBOM/TF2TS2OM
8.0 Warranty	M3CBOM/TF2TS2OM
9.0 Parts List	15 and M3CBOM/TF2TS2OM

1.0 Important Information and Warnings

1.1 Special Conditions for ATEX

⚠ WARNING Due to the hazardous nature of operating the trolley/hoist in a potentially explosive environment, special care should be taken to observe the warnings below:

- Non-compliance with any of these “Special Conditions” could result in ignition of potentially explosive atmospheres.
- The hoist must be used according to the operating conditions recommended in this section and the standard owner’s manuals: M3CBOM, TF2TS2OM.
- Exceeding the recommended temperatures could result in increased surface temperatures and the hoist can become an ignition source.
- The upper hook and trolley track wheel of this unit can be grounded to the building as a means to prevent static electrification. There is a high possibility of spark creation if proper grounding with the building cannot be achieved due to a painted travelling rail or similar reason. Always be sure to securely ground the unit using a dedicated grounding cable. Grounding of a suspended load is not possible if using a non-conductive suspension equipment such as a fiber sling. Be sure to use a grounding cable to directly ground the suspended load.
- Do not allow hard contact of the bottom block, hook, load chain, or suspended load against other objects. The impact of any hoist component or load beyond normal use may cause an ignition hazard from sparks.
- If the hoist is installed with a trolley or part of other equipment, ensure that the entire equipment complies with the ATEX requirements necessary for the application.
- To maintain the ATEX rating it is very important that hoist inspection and maintenance is performed regularly. That includes checking the hoist for correct operation, and where appropriate, repairs as necessary, to maintain proper material coatings (plating and lubrication), to ensure protection from corrosion, wear, resistance, electrical conductivity, impact strength, ageing resistance and effects of temperature variation. (Examples: material plating loss due to wear will eliminate resistance to corrosion, spark resistance; lack of bearing lubrication could lead to increased operating temperatures, reducing spark resistance). Refer to **Section 1.2** and the standard owner’s manuals for specific inspection/maintenance items.
- If elevated temperatures or elevated vibration levels are detected, shut the hoist off and discontinue its use until it can be inspected and/or repaired.
- See **Section 1.4** for more information on the ATEX directive and markings.

Failure to read and comply with any one of the limitations noted herein can result in serious bodily injury or death, and/or property damage.

1.2 Component safety precautions

⚠ WARNING The following are precautions related to specific components. All other items are in accordance with the standard instruction manual. Due to the hazardous nature of operating the trolley/hoist in a potentially explosive environment, special care should be taken to observe the warnings below:

1) Main body-Do not use in the following manners as these can heighten the possibility of spark creation:

- Do not allow the chain hoist to impact any other objects (do not swing or throw the chain hoist).
- If used for an extended period of time, dust and other foreign material can get inside the main body, possibly resulting in the creation of sparks from friction of such foreign material and rotating parts. Periodically disassemble and inspect the parts.

2) Bottom hook - The bottom hook is copper-plated in order to decrease the chance of sparking when contacting other metal parts.

- Check the copper-plating before operating, and do not use if the bare steel of the hook is exposed. Replace the hook if bare steel is exposed.
 - Experimental testing has proven that the bare steel of the hook will not be exposed when the hook is loaded at capacity for 20,000 repetitions.

- Make sure that the hook cannot inadvertently contact any other objects. Impact with another object can result in a greater possibility of sparks being created due to the material or surface form of the other object.

3) Trolley track wheel

- The trolley track wheel does not create sparks when used normally on a travelling rail. However, do not pull the load chain with excessive force, making the trolley move at a speed exceeding the necessary speed, or subject to similar operation. Impact with another object can result in a greater possibility of sparks being created due to the material or surface form of the other object.
- Additionally, the presence of foreign material on the travelling rail can result in a greater possibility of sparks being created. Periodically wipe off any foreign material. Options for the trolley track wheel are copper-plated, bronze-covered, bronze or stainless steel. The table in Section 5 of the trolley section in this supplement shows the use limits. Periodically measure the dimensions and replace corresponding parts when any of the use limits have been exceeded.

4) Load chain

Regularly inspect the load chain to make sure that no rust has formed. The formation of rust on the surface can result in a greater possibility of sparks being created if the chain contacts another object.

5) Hand chain

The hand chain is fabricated of stainless steel to greatly reduce the possibility of spark creation. However, make sure that the hand chain does not contact any other objects. Impact with another object can result in a greater possibility of sparks being created due to the material or surface form of the other object.

Failure to read and comply with any one of the limitations noted herein can result in serious bodily injury or death, and/or property damage.

1.3 Spark resistant product overview

1.3.1 Components

The parts listed below for these products have been changed from the standard specifications to the specifications listed below, and are the non-sparking specifications if normally used in the environments described above.

- Bottom hook: Copper-plated
 - Load chain: Nickel-diffused or nickel-plated chain
 - Hand chain: Stainless steel (SUS304)
 - Trolley track wheel: bronze (up to 2t), bronze plated (3t)
- Optional:
- Trolley track wheel: stainless steel

1.3.2 Spark resistant and standard model comparison

In order to keep the temperature of the hoist under the maximum during operation, the RCB/RTS is based on the larger capacity of its standard M3 chain hoist/TS trolley series and is only available up to 3 ton. The table below shows the model comparison between the RCB /RTS and standard product. When referring to the standard CB or TS Owner's Manuals for product instructions not included in this supplement, refer to **Table 1-1** for the correct hoist/trolley model.

Table 1-1 Spark resistant vs. Standard models			
RCB/RTS Rated Capacity	Standard hoist	Standard plain trolleys	Standard geared trolleys
0.5t	M3 series CB010	TS series PTS010	TS series GTS010
1t	M3 series CB015	TS series PTS020	TS series GTS020
2t	M3 series CB030	TS series PTS030	TS series GTS030
3t	M3 series CB050	TS series PTS050	TS series GTS050

1.4 Explanation of ATEX Directive and Markings

Hoists intended for use in potentially explosive atmospheres require measures to reduce the risk of explosions. Requirements for such measures come from the European Directive 2014/34/EU. These requirements are commonly referred to as the ATEX Directive (ATEX is from the French ATmospheres EXplosibles).

Requirements for non-electric equipment are provided in the following standards under mandate by the European Commission and the European Free Trade Association. These standards provide a means to comply with the ATEX Directive.

- BS EN ISO 80079-36: Non-Electric Equipment for Explosive Atmospheres – Basic Method and Requirements.
- BS EN ISO 80079-37: Non-electrical equipment for explosive atmospheres — Non-electrical type of protection constructional safety “c”, control of ignition sources “b”, liquid immersion “k”.

These standards supersede the EN 13463 standards, which were withdrawn in 2016.

Non-electric hoists that meet the appropriate requirements of the BS EN ISO 80079 standards and have their TCF filed with a Notified Body satisfy the ATEX Directive and can be used in potentially explosive atmospheres.

Harrington’s ATEX-certified non-electric hoists use the “constructional safety” type of protection. This type of protection includes the use of materials that reduce or eliminate the risk of sparks produced by impact or friction. It provides protection against the possibility of ignition from hot surfaces, sparks and adiabatic compression generated by moving parts. This can generally be considered equivalent to the term “spark-resistant features.”

The ATEX Directive and the BS EN ISO 80079 standards require detailed markings to assure the hoists are used correctly. These markings define the applications, the type and duration of the potentially explosive atmospheres, the type of protection, and the maximum surface temperature.

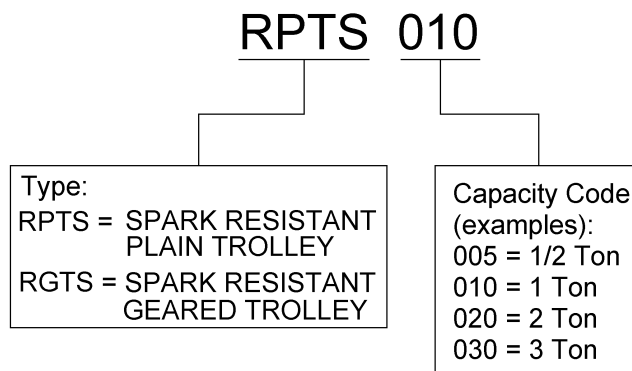
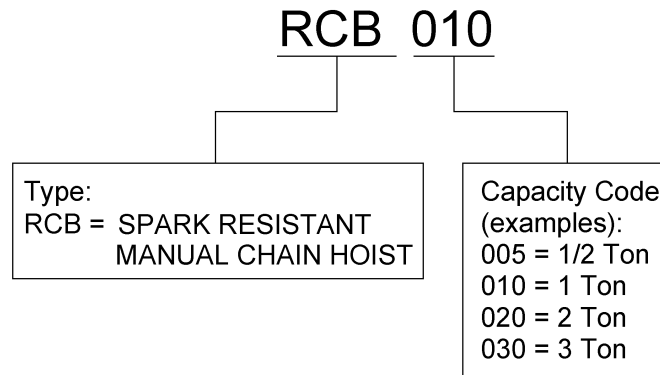
It is the responsibility of the equipment’s owner/operator to ensure the equipment is suitable for the explosive atmosphere in which it will be used. The equipment’s GAS and DUST rating can be found on the Nameplate, the accompanying Declaration of Conformity, and within the Owner’s Manual. Table 1-1 herein provides an explanation of these ratings and their meaning.

***Please see the internal “Declaration of Conformity” (end of manual) and EDOC1360 for additional ATEX information.**

2.0 Technical Information

2.1 Specifications

2.1.1 Product Code



Note: Refer to **Section 1** and the standard Owner's Manuals: **M3CBOM/TF2TS2OM** for additional information

2.2 Dimensions

Table 2-1 RCB ATEX Hand Chain Hoist Specifications & Dimensions (Reference Figure 2-1)																	
Cap. (Tons)	Product Code	Head-room C (In)	Std. Lift (ft)	Pull to Lift Load (lbs)	Overhaul Ratio	Load Chain Dia. (mm) x Chain Fall Lines	a (in)	b (in)	d (ft)	e (in)	f (in)	g (in)	x (in)	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Addnl. One Ft. of Lift (lbs)	
1/2	RCB005	11.6	8	32	43	6.3x1	6.4	6.3	8.0	2.8	3.9	1.1	4.0	25	27	1.2	
1	RCB010	13.8		48	57	7.1x1	6.7	7.2	8.0	3.1	4.4	1.3	4.7	32	33	1.4	
2	RCB020	20.1		50	114	7.1x2	6.7	9.3	8.3	3.1	6.4	1.7	5.8	53	53	2.1	
3	RCB030	23.6		45	198	9.0x2	7.6	11.1	10.0	3.6	7.6	1.8	6.8	90	89	3.0	

*NOTE: Any lift of chain is available on request. Simply specify the length of chain desired when ordering. Because Harrington chains are specially heat treated, only authentic Harrington chains should be used on your hoist. NEVER attempt to lengthen the chain by attaching additional chain links to it or by any other means.

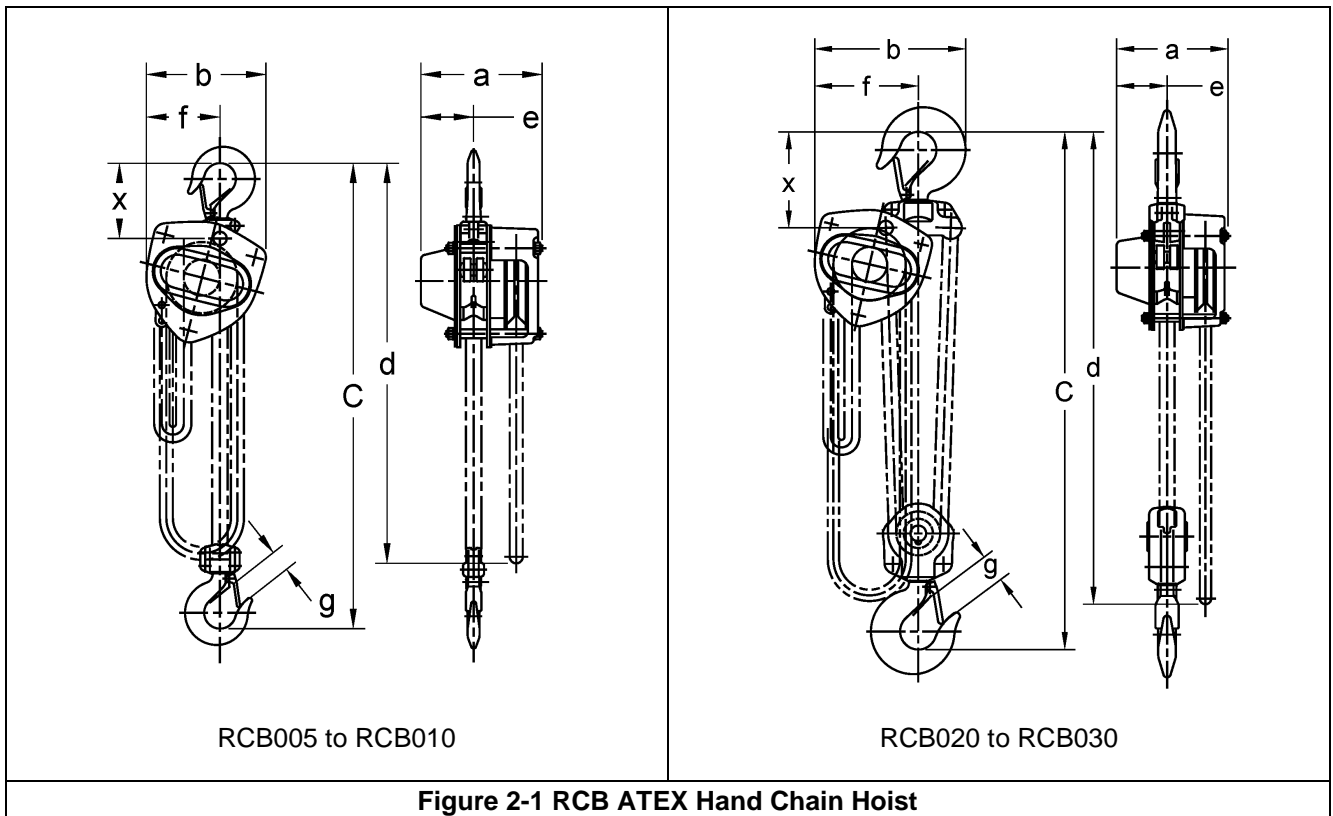


Table 2-2 RPTS ATEX Plain Trolley Specifications & Dimensions

Cap. (Tons)	Product Code	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' (in)	b (in)	e (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	s (in)	t (in)	v (in)	Net Weight (lbs)	Shipping Weight Approx. (lbs)
			Standard	Option																
1/2	RPTS2005 RPTS2005-AL	51.2*	2.28 to 5.00	5.01 to 8.00 or 8.01 to 12.00	8.5	9.8	10.7	2.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	B-1.8	0.98	4.2	18	20
1	RPTS2010 RPTS2010-AL	59.1	3.23 to 6.02	6.03 to 12.00	10.4	11.8	12.4	2.7	5.0	3.35	1.3	4.4	2.8	5.2	2.4	B-2.2	1.26	5.1	31	33
2	RPTS2020	66.9*	3.23 to 6.02	6.03 to 12.00	11.0	12.6	14.7	3.1	5.8	3.94	1.4	5.3	3.1	6.0	2.7	B-2.2	1.42	6.7	51	53
3	RPTS2030 RPTS2030-AL	90.6	3.94 to 7.02	7.03 to 12.00	10.7	11.7	19.0	2.1	6.7	4.65	1.8	5.7	3.2	7.0	3.4	B-2.8	2.13	9.0	110	115

*Minimum flange width for curved rail: 1t = 2.24"; 2t = 3.50"

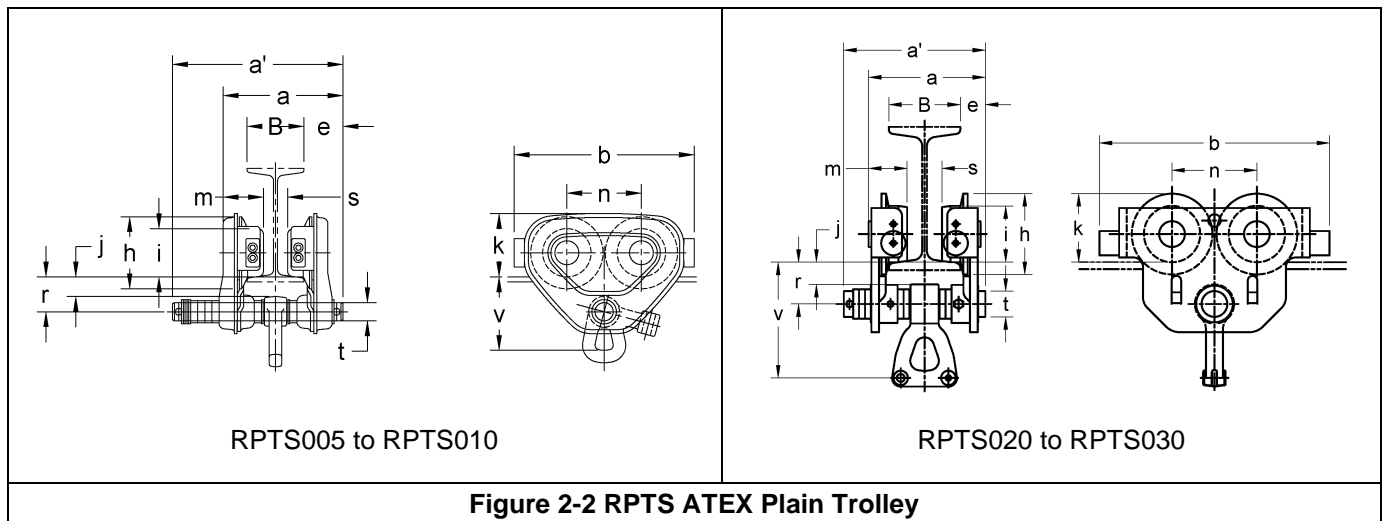


Table 2-3 RGTS ATEX Geared Trolley Specifications & Dimensions

Cap. (Tons)	Product Code	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' max (in)	b (in)	e (in)	f** (ft.)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	s (in)	t (in)	u (in)	v (in)	Net Weight (lbs)	Shipping Weight Approx. (lbs)
			Standard	Option																			
1/2	RGTS2005	51.2*	2.28 to 5.00	5.01 to 8.00 or 8.01 to 12.00	10.8	12.2	10.7	4.6	8	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	B-1.8	0.98	7.2	4.2	26	31
	RGTS2005-AL					21.0			10														
1	RGTS2010	59.1	3.23 to 6.02	6.03 to 12.00	13.7	15.2	12.4	6.1	8	5.0	3.35	1.3	4.4	4.3	2.8	5.2	2.4	B-2.2	1.26	7.2	5.1	42	46
	RGTS2010-AL					24.8			10														
2	RGTS2020	66.9*	3.23 to 6.02	6.03 to 12.00	14.1	15.7	14.7	6.2	8	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	B-2.2	1.42	7.2	6.7	60	64
3	RGTS2030	90.6	3.94 to 7.02	7.03 to 12.00	14.8	15.8	19.0	6.2	8	6.7	4.65	1.8	5.7	5.1	3.2	7.0	3.4	B-2.8	2.13	7.2	9.0	123	130
	RGTS2030-AL					24.8			10														

*Minimum flange width for curved rail: 1t = 2.24"; 2t = 3.50"
 **Longer hand chain drops available upon request.

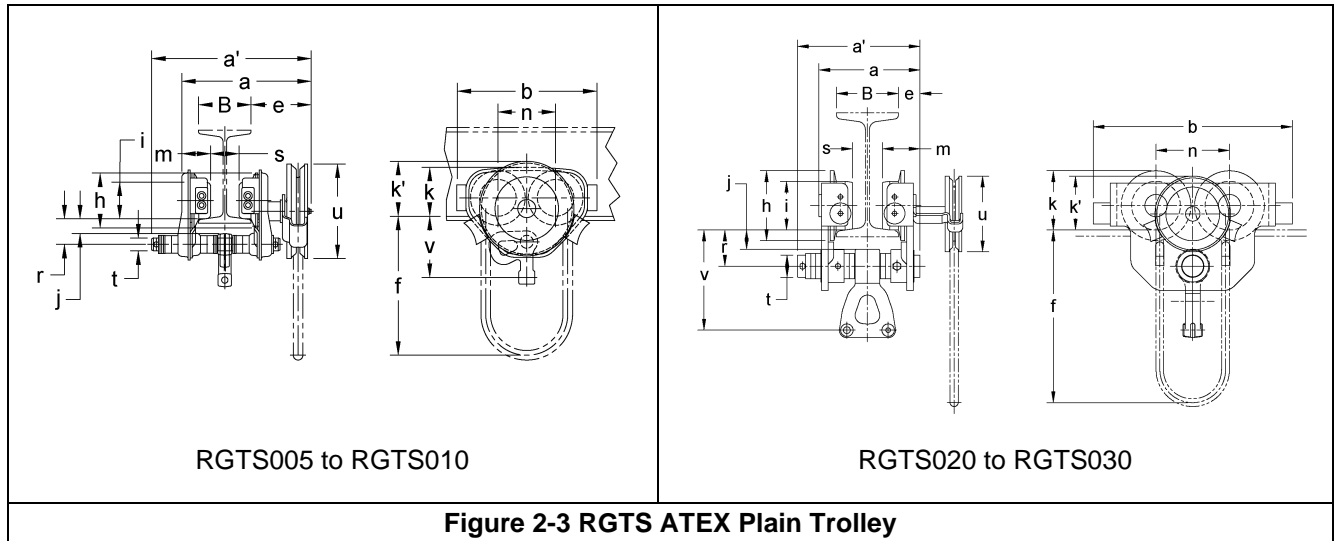


Figure 2-3 RGTS ATEX Plain Trolley

Table 2-4 RCB Hoist with RPTS Trolley Specification & Dimensions

Cap. (Tons)	Product Code		Headroom C (in)		Std Lift (ft)	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' (in)	b (in)	d (ft)	e (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	s (in)	t (in)	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Add'l. One ft of Lift (lbs)
	Hoist	Trolley	Hook	Lug			Standard	Option																	
1/2	RCB005	RPTS2005	15.4	12.0	8	51.2*	2.28 to 5.00	5.01 to 8.00 or 8.01 to 12.00	8.5	9.8	10.7	8.0	2.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	B-1.8	0.98	42	47	1.2
1	RCB010	RPTS2010	18.5	14.4		59.1	3.23 to 6.02	6.03 to 12.00	10.4	11.8	12.4	8.0	2.7	5.0	3.35	1.3	4.4	2.8	5.2	2.4	B-2.2	1.26	62	66	1.4
2	RCB020	RPTS2020	26.3	21.1		66.9*	3.94 to 7.02	7.03 to 12.00	11.0	12.6	14.7	8.3	3.1	5.8	3.94	1.4	5.3	3.1	6.0	2.7	B-2.2	1.42	97	106	2.1
3	RCB030	RPTS2030	32.2	27.2	90.6			10.7	11.7	19.0	10.0	2.1	6.7	4.65	1.8	5.7	3.2	7.0	3.4	B-2.8	2.13	192	204	3.0	

*Minimum flange width for curved rail: 1t = 2.24"; 2t = 3.50"
 Special lengths of load and hand chain available upon request.
 Weights are approximate.

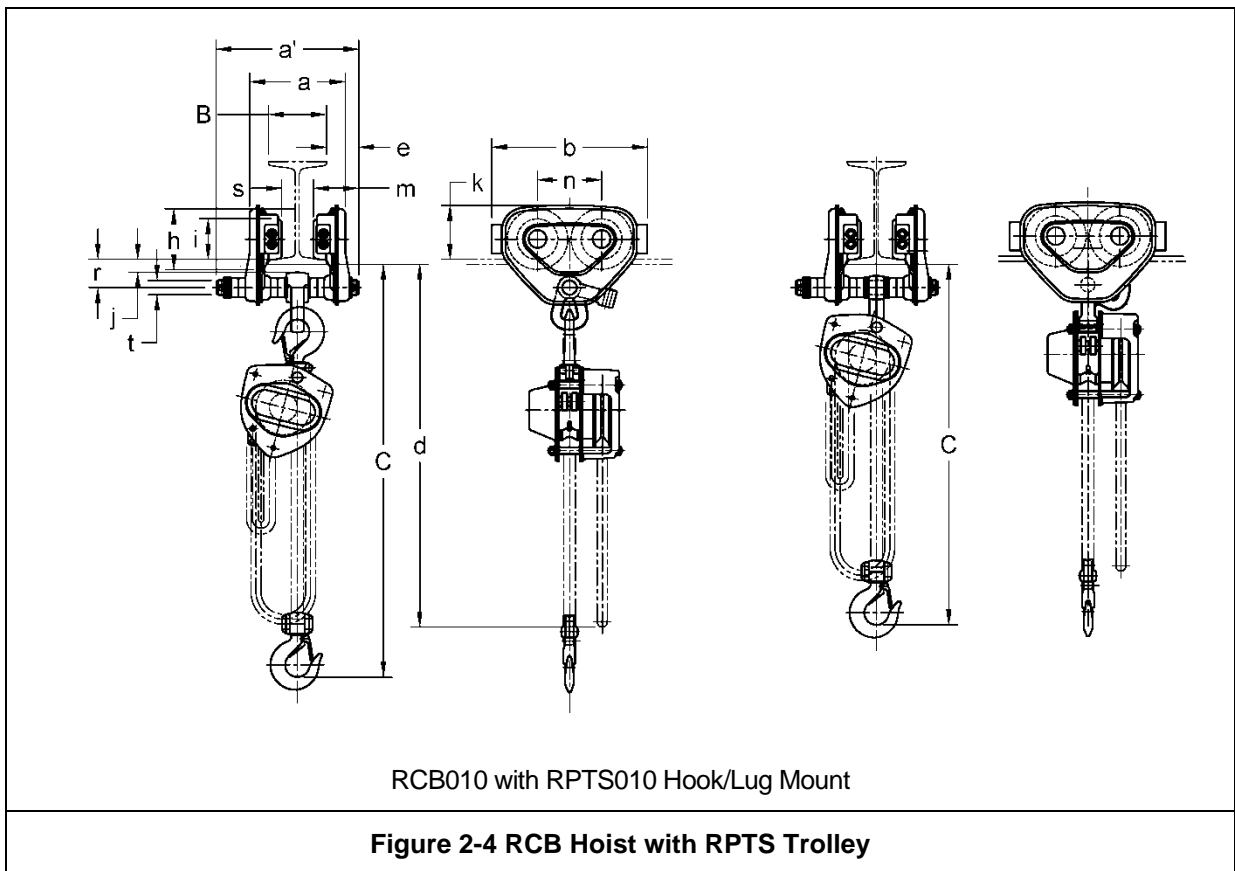
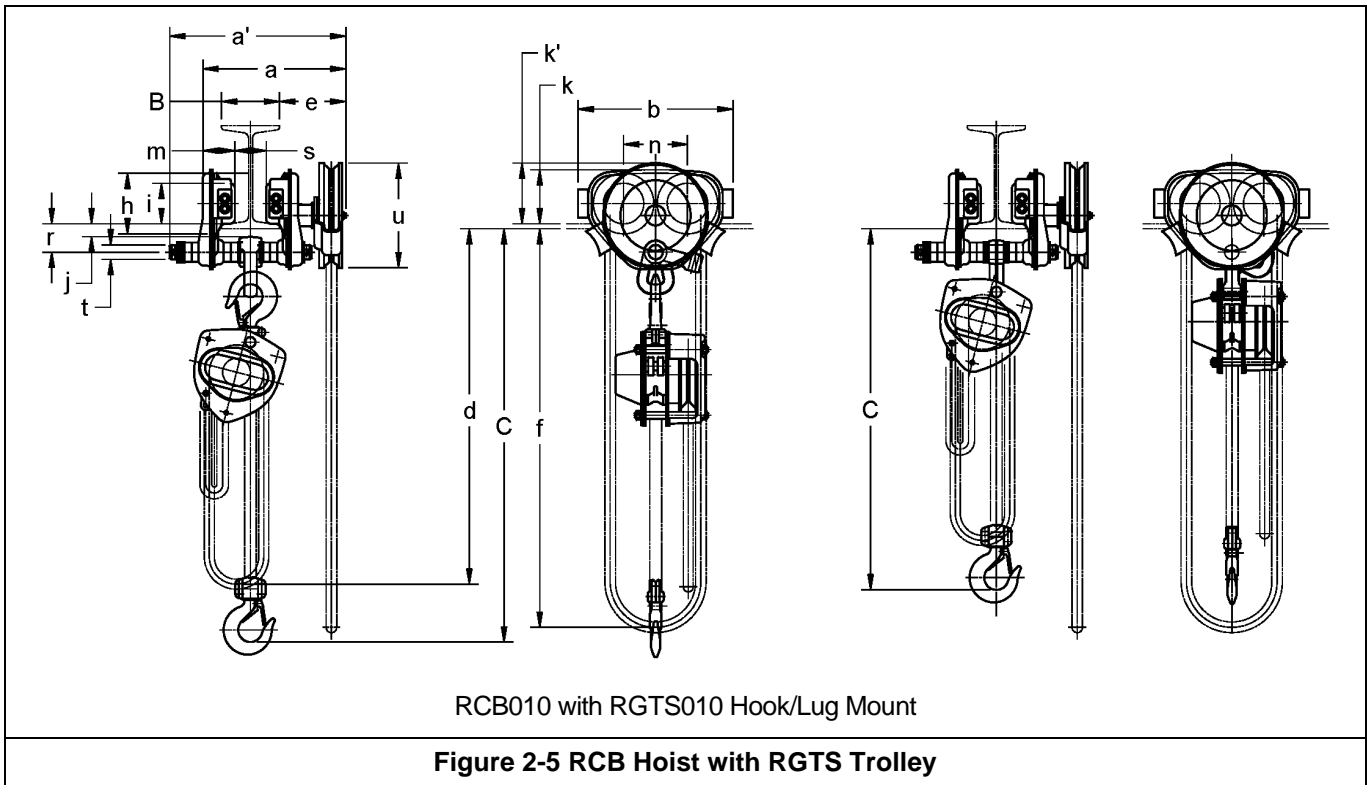


Table 2-5 RCB Hoist with RGTS Trolley Specification & Dimensions

Cap. (Tons)	Product Code		Headroom C (in)		Std Lift (ft)	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' (in)	b (in)	d (ft)	e (in)	f (ft)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	s (in)	t (in)	u (in)	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Add'l One ft. of Lift (lbs)
	Hoist	Trolley	Hook	Lug			Standard	Option																				
1/2	RCB005	RGTS2005	15.4	12.0	8.0	51.2*	2.28 to 5.00	5.01 to 8.00	10.8	12.2	10.7	8.0	4.6	7.0	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	B-1.8	0.98	7.2	53	58	1.8
1	RCB010	RGTS2010	18.5	14.4		59.1	3.23 to 6.02	6.03 to 12.00	13.7	15.2	12.4	8.0	6.1	7.0	5.0	3.35	1.3	4.4	4.3	2.8	5.2	2.4	B-2.2	1.26	7.2	71	79	2.0
2	RCB020	RGTS2020	26.3	21.1		66.9*	3.94 to 7.02	7.03 to 12.00	14.1	15.7	14.7	8.3	6.2	7.0	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	B-2.2	1.42	7.2	106	117	2.8
3	RCB030	RGTS2030	32.6	27.4		90.6	3.94 to 7.02	7.03 to 12.00	14.8	15.8	19.0	10.0	6.2	8.7	6.7	4.65	1.8	5.7	5.1	3.2	7.0	3.4	B-2.8	2.13	7.2	203	219	3.7

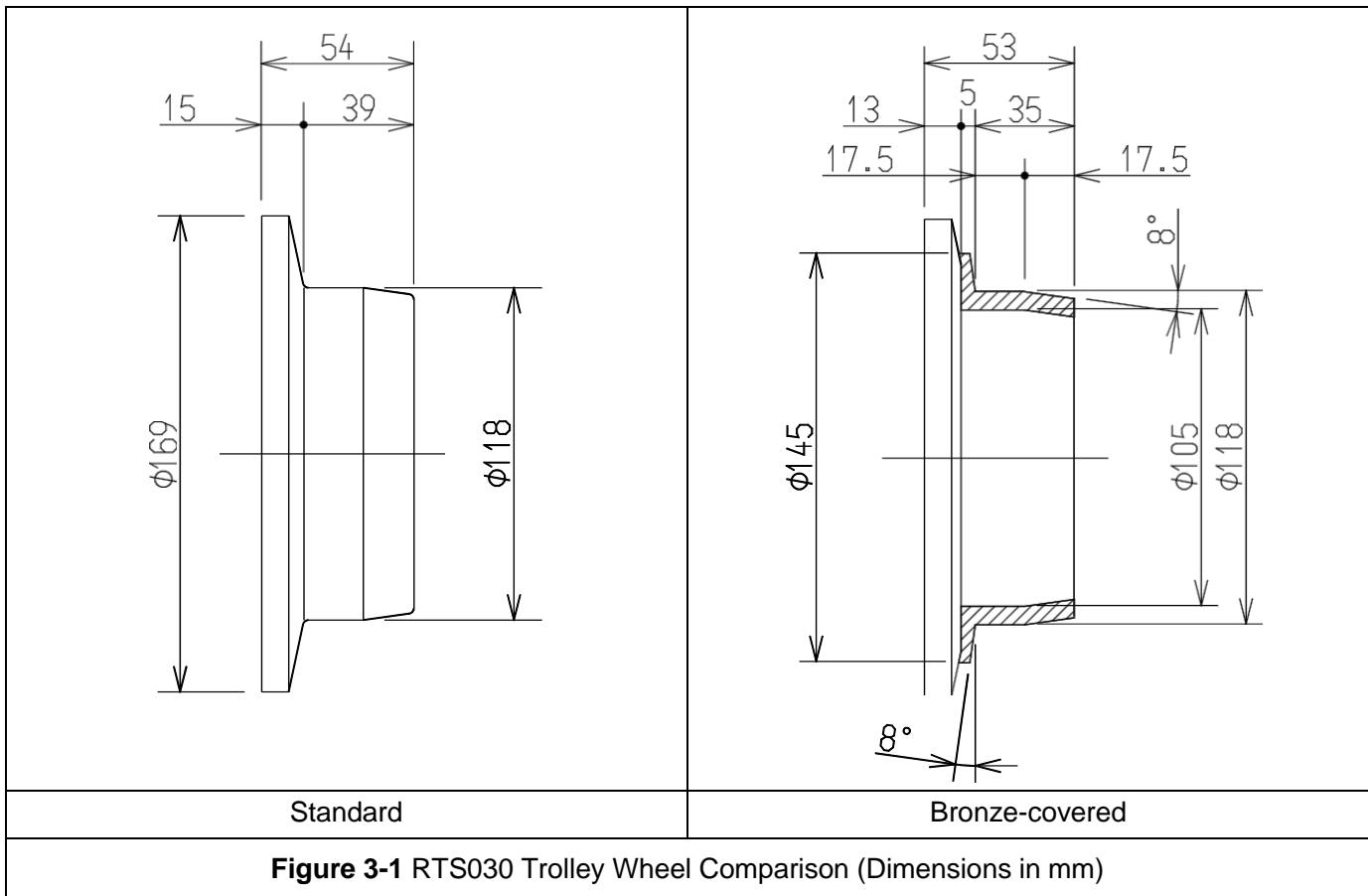
*Minimum flange width for curved rail: 0.5t = 73mm; 2t = 89mm
 Special lengths of load and hand chain available upon request.
 Weights are approximate.



3.0 Preoperational Procedures

Trolley Assembly

With the exception of the RTS030, the standard **TF2TS2OM** should be used in conjunction with **Table 1-1** of this manual for complete trolley installation instructions. The RTS030 trolley has a different spacer arrangement than the standard setup because it is bronze coated causing the flange thickness to differ as seen below in **Figure 3-1**. Use **Table 3-1** below for proper spacer arrangement on the RTS030 model, but follow the standard **TF2TS2OM** for all other installation instructions.



Note: Refer to **Section 1** and the standard Owner's Manuals: **M3CBOM/TF2TS2OM** for additional information.

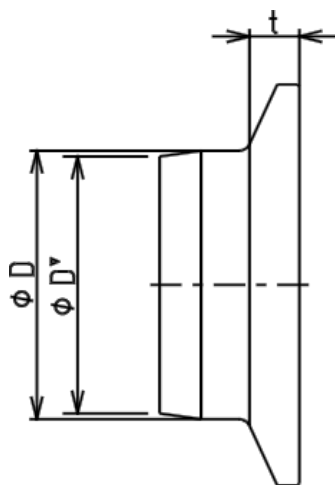
Table 3-1 Number of Adjusting Spacers, 3 Ton																																	
Beam Flange Width			(in)	2	2 5/16	2 1/2	2 7/8	3	3 1/4	3 9/16	3 7/8	3 15/16	4	4 3/16	4 15/16	4 7/16	4 11/16	4 15/16	5	5 3/16	5 5/16	5 3/8	5 1/2	5 5/8	5 7/8	6	6 1/8	6 5/16	6 7/16	6 11/16	6 7/8	7	
Cap (Ton)	Spacer Type	Spacer Qty	(mm)	50	58	64	73	75	82	90	98	100	102	106	110	113	119	125	127	131	135	137	140	143	149	153	155	160	163	170	175	178	
						66	74	76		91							120								150								
3 (RTS)	Thin	8	Inner										1+1	1+2	2+2	2+3	3+3	4+4	1+1	1+2	2+2	2+3	3+3	4+4	1+1	1+2	2+2	2+3	3+3	4+4	1+5	2+5	
			Outer												6	5	4	3	2	0	6	5	4	3	2	0	6	5	4	3	2	0	2
	Thick	5	Inner										0+0	0+0	0+0	0+0	0+0	0+0	1+1	1+1	1+1	1+1	1+1	1+1	2+2	2+2	2+2	2+2	2+2	2+2	3+2	3+2	
			Outer												5	5	5	5	5	5	3	3	3	3	3	3	1	1	1	1	1	1	0
	Fixing Spacer	-	Inner																														

Table 3-1 Number of Adjusting Spacers, 3 Ton (continued)																											
Beam Flange Width			(in)	7 1/16	7 1/4	7 7/8	8	8 7/8	8 11/16	9	9 1/8	9 7/8	10	10 1/8	10 1/4	10 3/8	10 1/2	11	11 1/8	11 1/4	11 3/8	11 5/8	11 3/4	11 13/16	11 7/8	12	
Cap (Ton)	Spacer Type	Spacer Qty	(mm)	180	184	200	203	215	220	229	232	250	254	257	260	264	267	279	283	286	289	295	298	300	302	305	
				181	185																						
3 (RTS)	Thin	8	Inner	2+2	2+3	1+1	1+2	3+4	4+4	1+2	2+2	1+1	1+2	2+2	2+3	3+3	3+4	1+2	2+2	2+3	3+3	4+4	1+4	1+5	2+5	2+6	
			Outer	4	3	6	5	1	0	5	4	6	5	4	3	2	1	5	4	3	2	0	3	2	1	0	
	Thick	9	Inner	0+0	0+0	1+1	1+1	1+1	1+1	2+2	2+2	3+3	3+3	3+3	3+3	3+3	3+3	4+4	4+4	4+4	4+4	4+4	5+4	5+4	5+4	5+4	
			Outer	9	9	7	7	7	7	5	5	3	3	3	3	3	3	1	1	1	1	1	1	0	0	0	0
	Fixing Spacer	2	Inner	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	

5.0 Maintenance

Table 5-1 Track Wheel Wear Dimensions

1/2 to 3 Ton



Capacity (Ton)	“D” Dimension inch (mm)		“D’ ” Dimension inch (mm)		“t” Dimension inch (mm)	
	Standard	Discard	Standard	Discard	Standard	Discard
1/2	2.80 (71)	2.52 (64)	2.64 (67)	2.40 (61)	0.43 (11)	0.39 (9.9)
1	3.35 (85)	2.99 (76)	3.19 (81)	2.91 (74)	0.43 (11)	0.39 (9.9)
2	3.94 (100)	3.54 (90)	3.78 (96)	3.43 (87)	0.55 (14)	0.50 (12.6)
3	4.65 (118)	4.59 (116.5)	4.45 (113)	4.39 (111.5)	0.31 (18)	0.67 (17)

φD shows diameter for H-beam. φD' shows diameter for I-beam.

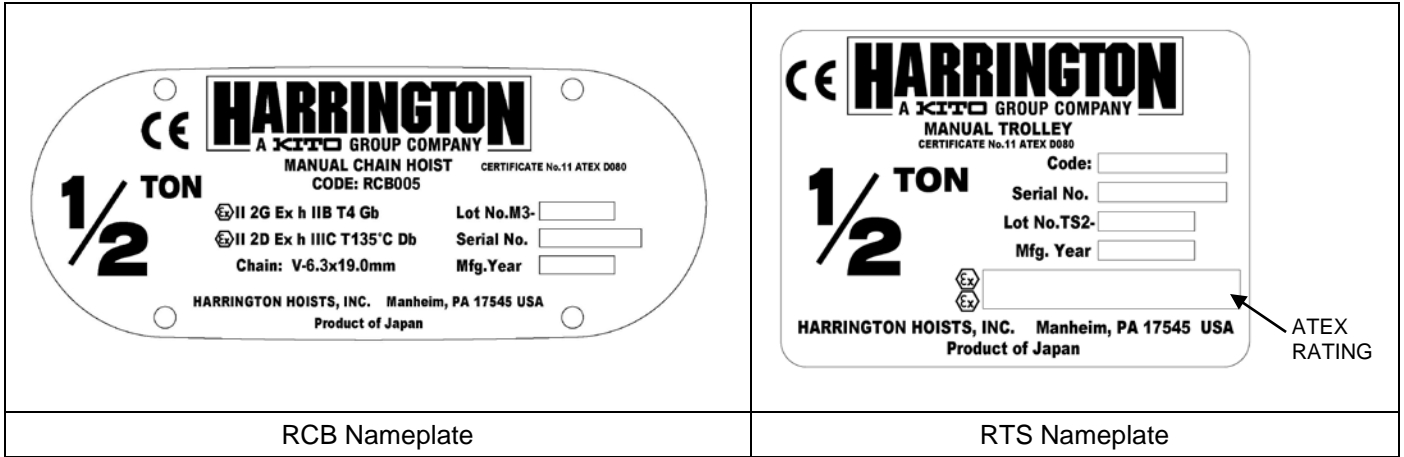
Note: Refer to **Section 1** and the standard Owner's Manuals: **M3CBOM/TF2TS2OM** for additional information.

9.0 Parts List

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

Reminder: To aid in ordering Parts and Product Support, record the Hoist code number, lot number and serial number in the space provided on the cover of this manual

Parts not listed in this supplement can be found by using **Table 1-1** in conjunction with the standard Owner's Manuals **M3CBOM/TF2TS2OM**.



The parts list is arranged into the following sections:

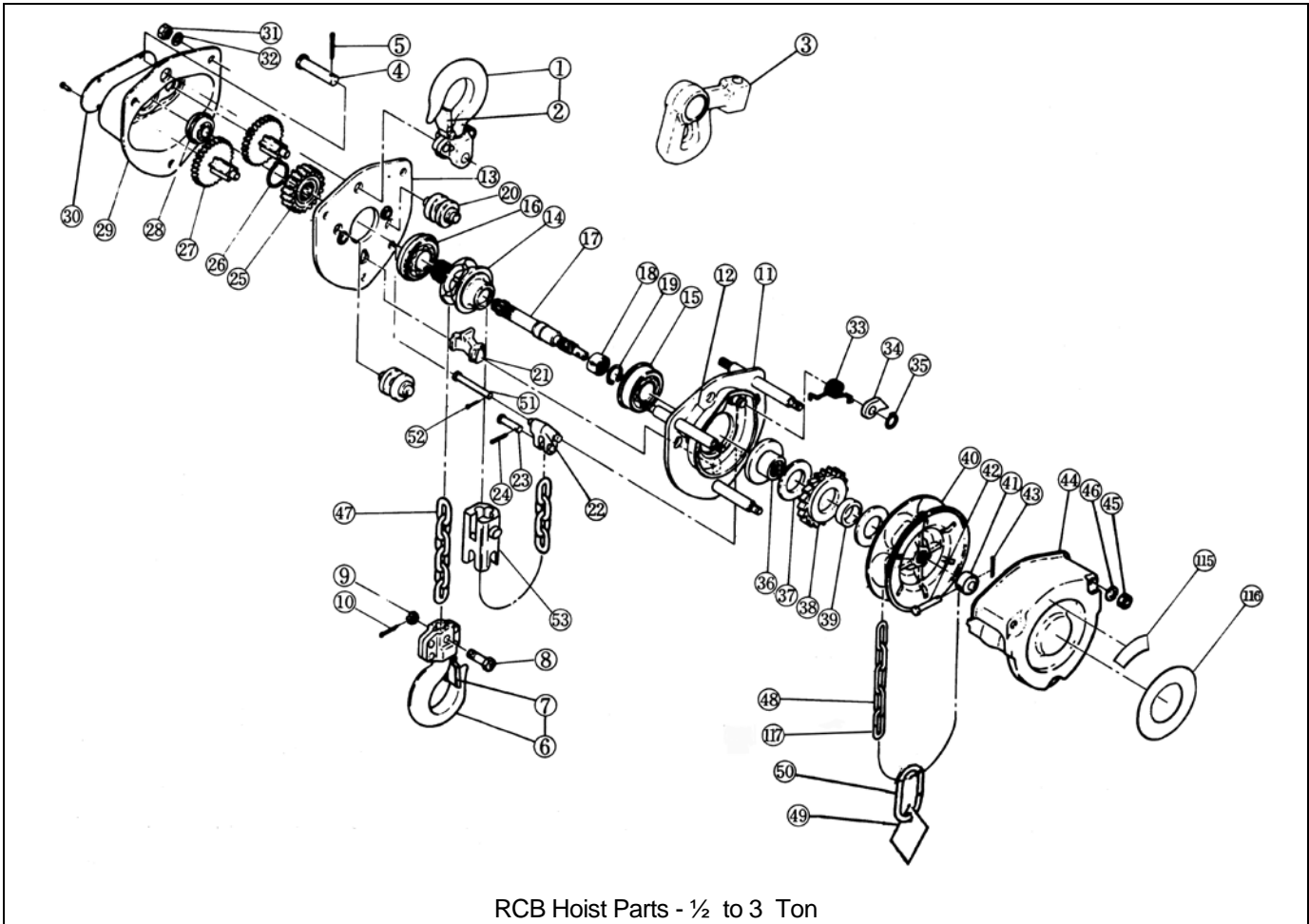
Section	Page
9.1 RCB Hoist Parts – ½ to 3 Ton	16 and M3CBOM
9.2 RTS Push Trolley Parts -1/2 to 3 Ton	22 and TF2TS2OM
9.3 RTS Geared Trolley Parts -1/2 to 3 Ton	24 and TF2TS2OM

In the column "Parts Per Trolley" a designator is used for parts that apply only to a particular model or option.

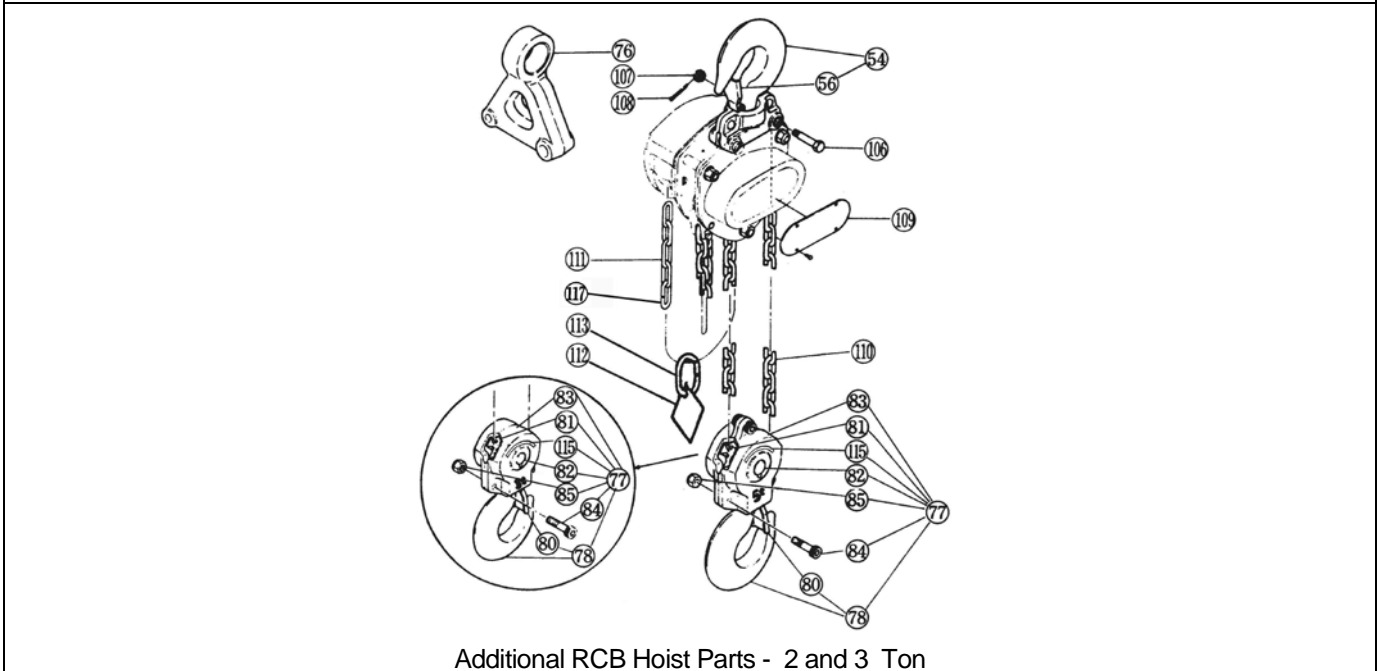
The designators are:

- RCB = For a trolley coupled with the RCB manual hand chain hoist
- AL = For a trolley coupled with the AL air hoist

9.1 RCB Hoist Parts – 1/2 to 3 Ton



RCB Hoist Parts - 1/2 to 3 Ton



Additional RCB Hoist Parts - 2 and 3 Ton

Figure 9-1 RCB Hoist Parts

9.1 RCB Hoist Parts – 1/2 to 3 Ton

Fig. No.	Part Name	Qty per Hoist	RCB005 (CB010)	RCB010 (CB015)	RCB020 (CB030)	RCB030 (CB050)	
1	Top Hook Set	1	CF001010	CF001015			
2	Latch Assembly	1	CF071010	CF071015			
3	Suspender C	1	T7GC004010	T7GC004020			
4	Top Pin	1	M3163010	M3163015		M3163025	
5	Split Pin	1	9009423				9009424
6	Bottom Hook Set	1	300543-40141	300543-40241			
7	Latch Assembly	1	RCB071005	RCB071010			
8	Chain Pin	1	M3041010	M3041015			
9	Slotted Nut	1	M2049010	M2049010			
10	Split Pin	1	9009411				
11	Side Plate A Ass'y	1	M3101010	M3101015		M3101025	
12	Nameplate F	1	C3BA0059806				C3BA0059806
13	Side Plate B Ass'y	1	M3102010	M3102015		M3B102025	
14	Load Sheave	1	M3116010	M3116015		M3116025	
15	Ball Bearing	1	M3140005				M3140020
16	Ball Bearing	1	M3140005				M3140020
17	Pinion	1	M3111010	M3111015		M3B111025	
18	Roller Bearing	1	M3130005				M3130020
19	Snap Ring	1	M3118005				M3118020
20	Guide Roller	2	M3161010	M3161015		M3161025	
21	Stripper	1	M3162010	M3162015		M3162025	
22	Anchorage	1	M3176010	M3176015		M3176025	
23	Stopper Pin	1	M3177010	M3177015		M3177025	
24	Split Pin	1	9009415-5				
25	Load Gear	1	M3114010	M3114015		M3114025	
26	Snap Ring	1	9047123	9047128		9047132	
27	Gear No. 2 Ass'y	2	M3112010	M3112015		M3B112025	
28	Ball Bearing	1	M3135005				M3135020
29	Gear Case Ass'y	1	M3103010	M3103015		M3103025	
30	Nameplate B w/ Rivets	1	80564	80565			
31	Nut	3	9093424				9093433

Fig. No.	Part Name	Qty per Hoist	RCB005 (CB010)	RCB010 (CB015)	RCB020 (CB030)	RCB030 (CB050)
32	Spring Washer	3	9012711			9012713
33	Pawl Springs Assembly	1	C3BA0055179			
34	Pawl	1	M3155005			
35	Snap Ring	1	9047110			
36	Friction Disc	1	M3153005			M3B153025
37	Friction Plate	2	M3151005			M3B151025
38	Ratchet Disc	1	M3152005			M3B152025
39	Bushing	1	M3154005			M3B154025
40	Hand Wheel	1	M3115005	M3115015		M3B115025
41	Wheel Stopper	1	CF159005			CF159010
42	Wheel Stopper Pin	1	M2167005			
43	Split Pin	1	9009410			
44	Wheel Cover Ass'y	1	M3171005	M3171015		M3171025
45	Nut	3	9093424			
46	Spring Washer	3	9012711			
47	Load Chain	1 @ ft.	LCCF010NP-DIN	LCCF015NP-DIN		LCC3025NP-DIN
48	Hand Chain	1 @ ft.	K7RA0500000			
49	Warning Tag	1	WTAG9			
50	Chain Stopper Link	1	L4045030			
54	Top Hook Set	1			M3001A030	M3001A050
56	Latch Assembly	1			CF071030	M3072050
76	Suspender C				T7GC004030	M3004050
77	Bottom Hook Set	1			RCB021A020	RCB021A030
78	Bottom Hook Assembly	1			RCB021020	RCB021030
80	Latch Assembly	1			RCB071020	RCB071030
81	Idle Sheave Assembly	1			CF051030	M3051050
82	Shaft Assembly	1			CF053030	M3053050
83	Bottom Yoke Assembly	1			300543-40631	300543-40731
84	Socket Bolt	2(3)*			9091296	
85	Lever Nut	2(3)*			L4082060	
106	Chain Pin	1			M3041030	M3041075
107	Slotted Nut	1			M2049010	M2049020
108	Split Pin	1			9009411	9009412
109	Nameplate B w/ Rivets	1			80566	80567
110	Load Chain	1 @ ft.			LCCF015NP-DIN	LCC3025NP-DIN
111	Hand Chain	1 @ ft.			K7RA0500000	
112	Warning Tag	1			WTAG9	
113	Chain Stopper Link	1			L4045030	
115	Label	1			80173	
116	Harrington Label	1	M3700005	M3700015		M3700025
117	Hand Chain Masterlink	1	C1FA0159843N			

*Qty in () is for RCB030

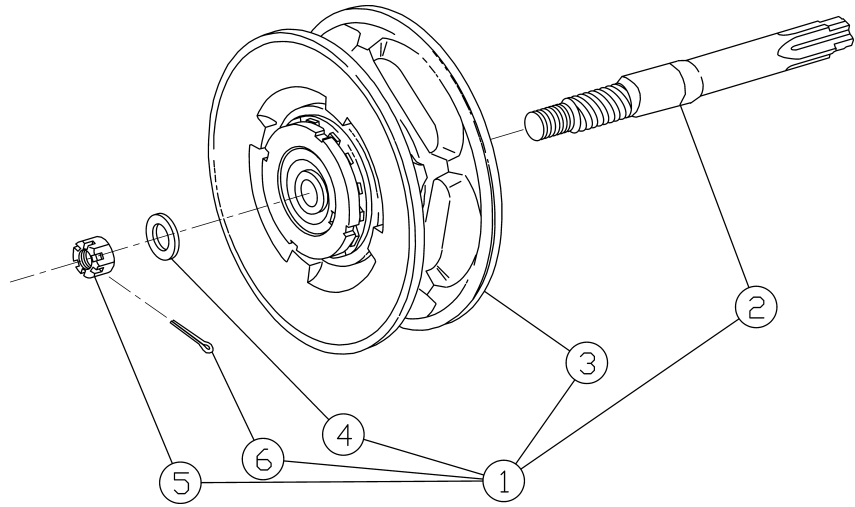


Figure 9-4 Slip Clutch

FIG NO.	PART NAME	QTY	RCB005 (CB010)	RCB010 (CB015)	RCB020 (CB030)	RCB030 (CB050)
1	OLL ASSEMBLY	1	M3CB010OD	M3CB015OD	M3B025OD	
2	PINION	1	C3YA111010	C3YA111015	C3BYA111025	
3	HAND WHEEL	1	C3YA1115010	C3YA1115015	C3BYA1115025	
4	WASHER	1	C3YA208005		C3YA208020	
5	NUT (left hand thread)	1	C3YA209005		C3YA209020	
6	Split Pin	1	9009412		9009414-5	

9.3 Optional Chain Containers

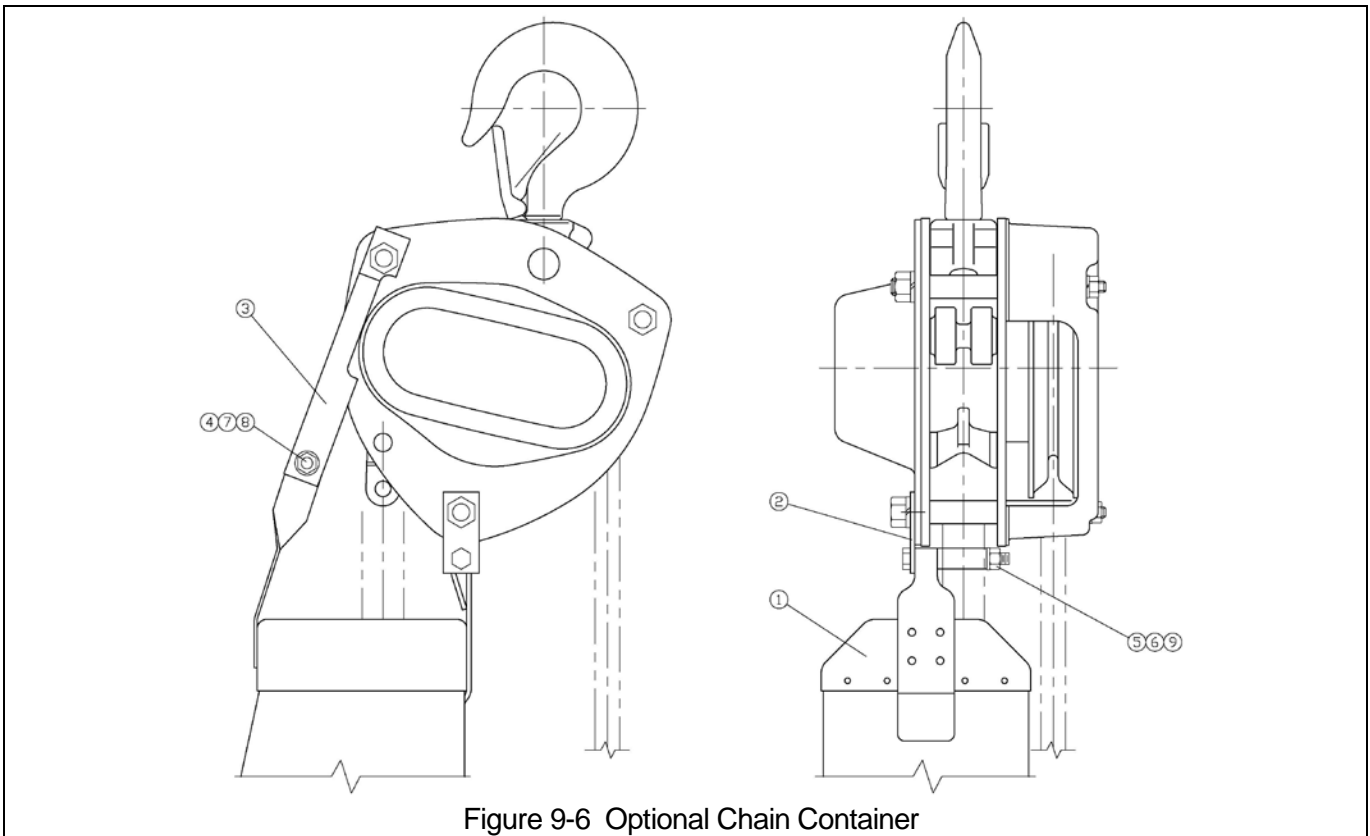


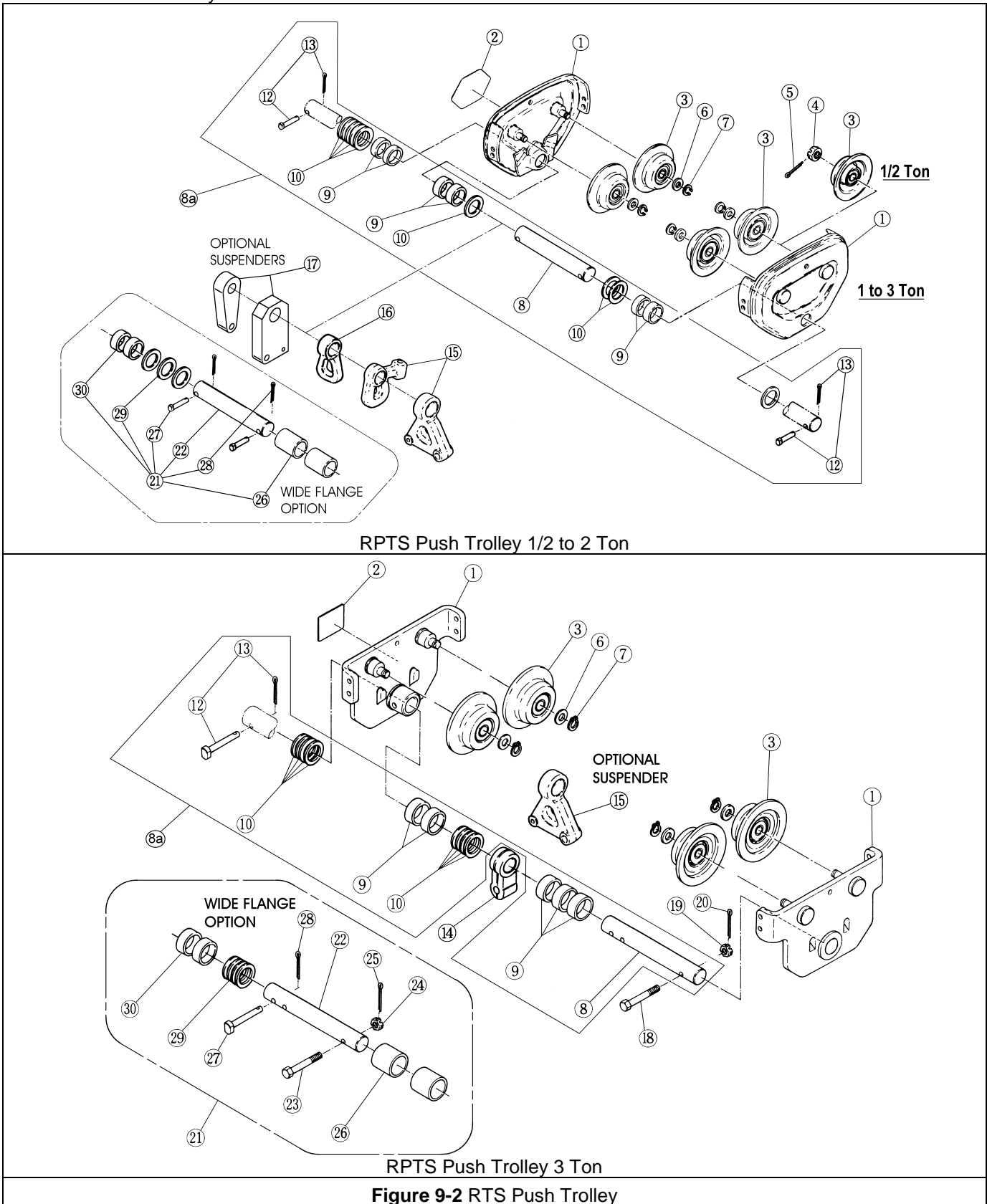
Figure 9-6 Optional Chain Container

OPTIONAL CHAIN CONTAINERS

Fig. No.	Name	Parts Per Hoist	RCB005 (CB010)	RCB010 (CB015)	RCB020 (CB030)	RCB030 (CB050)
	"05" Chain Container (BKC1) Assembly	1	60461		60461	60463
1	Chain Container	1	50545		50545	50545
2	Front Hanger Ass'y	1	5048305		5048305	5048305
3	Back Hanger	1	5048304		5048304	50940
4	Washer	2	9012513		9012513	9012513
5	Nut	1	9093424		9093424	9093424
6	Lock Washer	1	9005310		9005310	9005310
7	Hex Head Bolt	1	9093327		9093327	9093327
8	Lock-Nut	1	9098506		9098506	9098506
9	Spacer	1				5048301
	"10" Chain Container (BKD1) Assembly	1	60462		60462	60464
1	Chain Container	1	30090		30090	30090
2	Front Hanger Ass'y	1	5048305		5048305	5048305
3	Back Hanger	1	5048304		5048304	50940
4	Washer	2	9012513		9012513	9012513
5	Nut	1	9093424		9093424	9093424
6	Lock Washer	1	9005310		9005310	9005310
7	Hex Head Bolt	1	9093327		9093327	9093327
8	Lock-Nut	1	9098506		9098506	9098506
9	Spacer	1				5048301

This Page Intentionally Left Blank

9.2 RPTS Push Trolley Parts – 1/2 to 3 Ton



RPTS Push Trolley 1/2 to 2 Ton

RPTS Push Trolley 3 Ton

Figure 9-2 RTS Push Trolley

9.3 RTS Geared Trolley Parts – 1/2 to 3 Ton

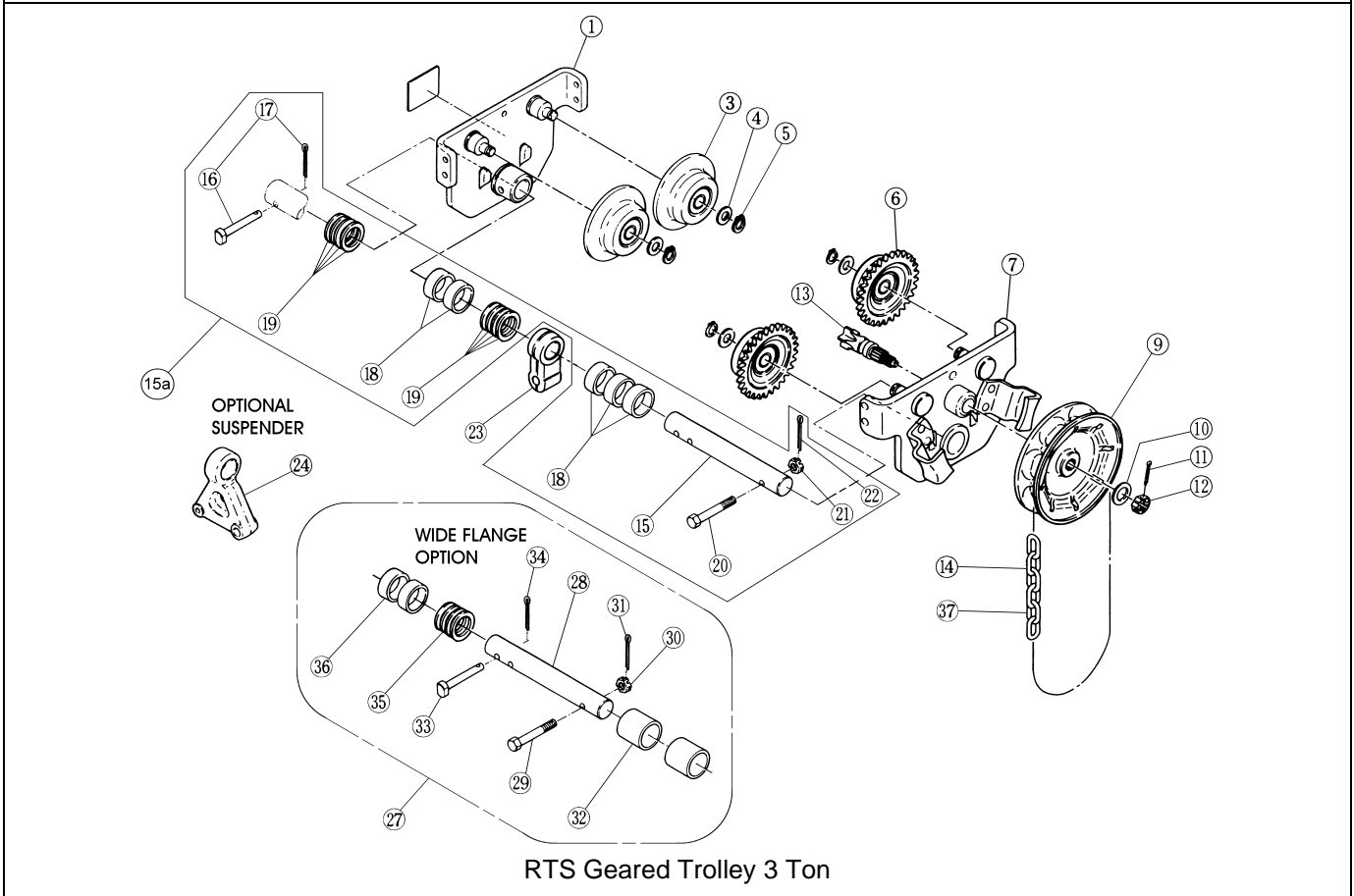
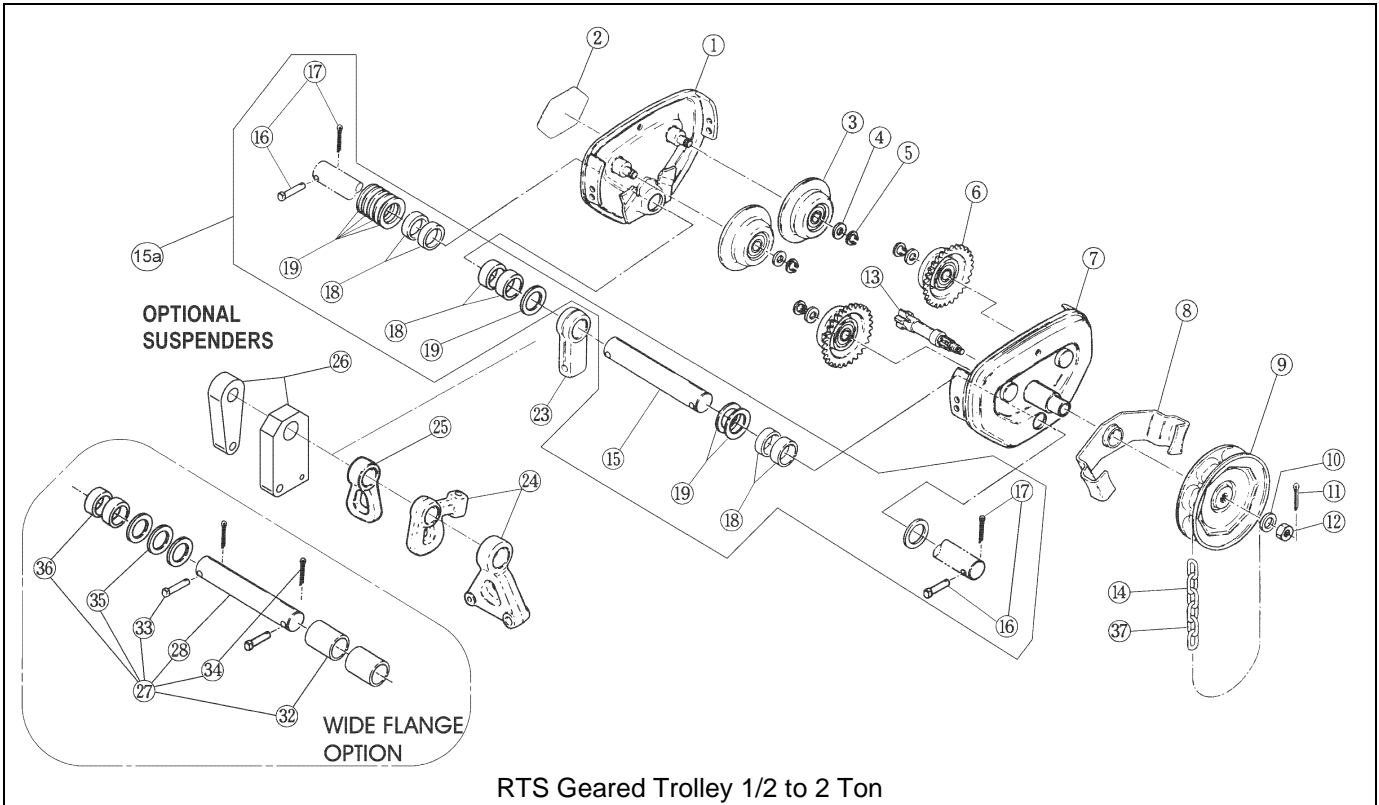


Figure 9-3 RTS Geared Trolley

This Page Intentionally Left Blank

CONTENTS OF DECLARATION OF CONFORMITY

**We, Harrington Hoists, Inc. a KITO Group Company,
Manheim, PA 17545
717-665-2000 / 800-233-3010**

Declare under our sole responsibility that the products:

Manual Chain Hoist: RCB (CB ATEX series)
Geared Trolley: RGTS (GTS ATEX series)
Plain Trolley: RPTS (PTS ATEX series)
Combined products: RCB with RGTS (lug or hook mounted)
RCB with RPTS (lug or hook mounted)

to which this declaration relates complies with the provisions of the ATEX directive 2014/34/EU, proved by compliance with the following standards.

ISO 80079-36:2016 Non-electrical equipment for explosive atmospheres — Basic method and requirements

ISO 80079-37:2016 Non-electrical equipment for explosive atmospheres

— Non-electrical type of protection constructional safety “c”, control of ignition sources “b”,
liquid immersion “k”

Notified Body to whom technical documentation is deposited: PTB, Identification No. 0102

Registration number: 11 ATEX D080

Notes:

This product is based on CB, model M3 (refer to D/C M3-1207-E-02) and TSP/TSG, model TS2 and TS1 (refer to D/C TS-1207-E-02)

Product is marked

<p>RCB Hoist:</p> <p> II 2G Ex h IIB T4 Gb</p> <p> II 2D Ex h IIIC T135°C Db</p>	RGTS/RPTS Trolley	
	<p>For T4* hoist:</p> <p> II 2G Ex h IIB T4 Gb</p> <p> II 2D Ex h IIIC T135°C Db</p>	<p>For T5* hoist:</p> <p> II 2G Ex h IIB T5 Gb</p> <p> II 2D Ex h IIIC T100°C Db</p>

* Trolley by itself is rated for T5 temperature class. When used with a T4 rated hoist, trolley marking shall be T4.

Authorized representative for the arrangement of the technical documents:

Udo Kleinevoß
 Technical manager
 Kito Europe GmbH, 40549 Düsseldorf



Harrington Hoists, Inc.
401 West End Avenue
Manheim, PA 17545

www.harringtonhoists.com

Toll Free: 800-233-3010
Phone: 717-665-2000
Fax: 717-665-2861

RCBRTSSUP-ENG