

PURPOSE

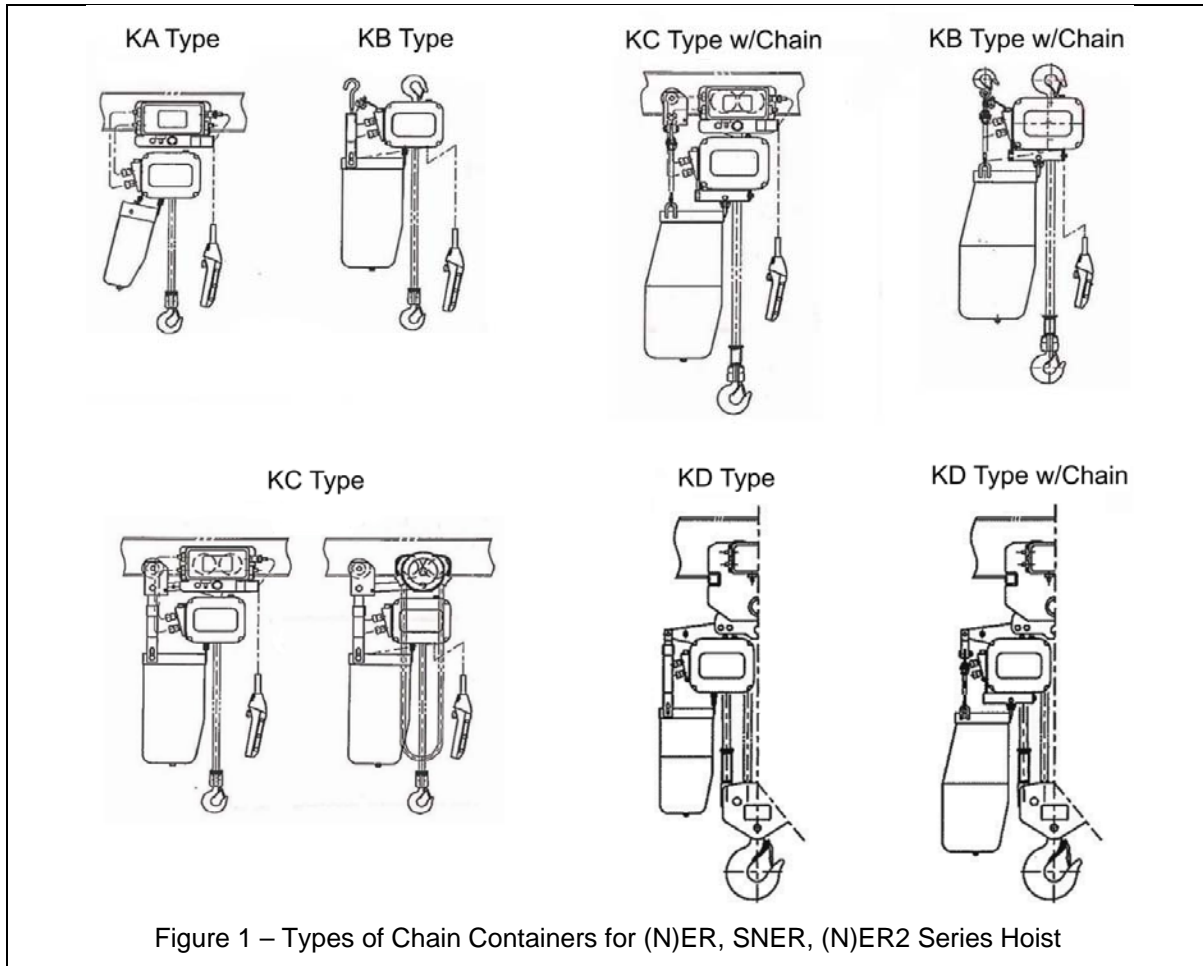
Provide assembly and installation information for the four (4) types of domestic production version steel chain container assemblies for use with the (N)ER1 & 2 Electric Chain Hoist.

IMPORTANT INFORMATION

This document is intended for use *in combination* with the “Owner’s Manual Electric Chain Hoist NER, ER, SNER, ER2 and NER2 Series 1/8 Ton through 5 Ton Capacity”, or “Owner’s Manual Supplement Electric Chain Hoist ER2 and NER2 Series 8 Ton through 20 Ton Capacity”. Before using the chain hoist refer to the Owner’s Manual for important information.

PRODUCT OVERVIEW

There are four (4) types of steel chain container assemblies for use on the (N)ER, SNER and (N)ER2 Series Electric Chain Hoist, KA, KB, KC, and KD. Refer to figure 1 and the definitions that follow.



Definitions of Chain Container Assembly Types:

- KA Type Suspended solely from the hoist itself. Can be used with hook mounted hoist, hoist on manual trolley, and hoist on motorized trolley. These are generally smaller size containers and are used for shorter lifts.
- KB Type Suspended partially from the hoist and partially from a separate suspension point. For use only with hook mounted hoist when container is too large for KA type. KB type requires a suitable point of suspension
- KC Type Suspended partially from the hoist and partially from a separate trolley. For use only with hoist on manual trolley, and hoist on motorized trolley. These are generally larger size containers and are used for longer lifts.
- KD Type Suspended partially from the hoist body and partially from a suspension plate. For use only with large capacity dual bodied hoist, hook mount or trolley mount. These types incorporate a container for each hoist body.

There are 12 different sizes of chain containers used making chain container assemblies. Table 1 gives these chain containers and their relative sizes. Table 2 gives the maximum lifts these containers can accommodate.

Table 1 – Container Sizes

Container Type	Small			Medium			Large	
KA	AH	BH	CH	DH	EH	FH		
KB KC		B		D		F	H	K
KD						F	H	K

Table 2 – Containers Maximum Lifts

CAPACITY		(N)ER2					(N)ER1, SNER				
001H, 003S	Size	AH	B	D			AH	B	D		
	Lift	49	141	249			39	125	174		
003H, 005L, 005S	Size	AH	BH	B	D	F	AH	BH	D	F	
	Lift	23	49	78	137	252	19	39	118	174	
010L	Size	BH	DH	D	F	H	BH	DH	D	F	H
	Lift	23	49	72	134	216	19	39	59	111	180
010S	Size	BH	DH	D	F	H	DH	D	F	H	
	Lift	23	49	72	134	216	39	59	111	180	
015S, 020L	Size	CH	EH	F	H	K	DH	FH	F	H	
	Lift	20	39	78	124	252	29	42	85	141	
025S	Size	DH	FH	F	H	K	DH	FH	F	H	K
	Lift	20	39	65	105	210	23	32	65	105	210
030C	Size	CH	EH	F	H	K	DH	FH	F	H	
	Lift	10	20	39	62	126	14	21	42	70	
050L	Size	DH	FH	F	H	K	DH	FH	F	H	K
	Lift	10	20	32	52	105	11	16	32	52	105
080S	Size	F	H	K			FH	F	H	K	
	Lift	21	34	70			9.5	21	34	68	
100L	Size	F	H	K			F	H	K		
	Lift	16	26	52			16	26	52		
100S	Size	DH	FH	F	H	K	DH	FH	F	H	K
	Lift	10	20	32	52	104	11	16	32	52	105
150S	Size	FH	F	H	K		FH	F	H	K	
	Lift	13	21	34	68		9.5	21	34	68	
200S	Size	FH	F	H	K		F	H	K		
	Lift	9	16	26	52		16	26	52		
020C (NER2 ONLY)	Size	BH	DH	D	F	H	N/A				
	Lift	13	24	36	67	108					
030L, 030S (NER1 ONLY)	Size	N/A					DH	FH	F	H	K
	Lift						16	23	49	82	164

ASSEMBLY AND INSTALLATION

NOTICE
Make sure that you use the assembly and installation information that corresponds to the chain container size that is marked on the container.

Road Map to assembly and installation information:

KA Type

Hoist Capacity Code		Configuration Type	Container Size	Figure Number
(N)ER2	(N)ER, SNER			
001H to 020M And 030C	001H to 010S and 020C	KA	N/A	2
020S and above	015S up to 050L Plus 080S and 100L	KA	N/A	3
100S, 150S and 200S	100S, 150S and 200S	KA	N/A	4

KB Type

Hoist Capacity Code		Configuration Type	Container Size	Figure Number
(N)ER2	(N)ER, SNER			
001H to 020M And 030C	001H to 010S and 020C	KB	B & D	5
020S and above	015S up to 050L Plus 080S and 100L	KB	F & H	6
100S, 150S and 200S	100S, 150S and 200S	KB w/ chain mount	K	7

KC Type

The KC type involves a separate trolley for the chain container. Therefore, there are more tables and figures involved. When using KC type containers, the hoist **MUST** be suspended from its motorized, push or geared trolley using a suspender T.

For Hoist with Motorized Trolley:

Hoist Capacity Code		Container Size	Container Assembly	Container Trolley Assembly and Adjustment	Hoist Trolley Adjustment
(N)ER2	(N)ER, SNER				
001H to 010S and 020C	001H to 020M and 030C	All	Figure 8	Figure 13a/b & 14 Table 5	Use the MR Trolley Owner's Manual
015S up to 050L	020S to 050L	F & H	Figure 9	Figure 13a/b & 14 Table 5	Use the MR Trolley Owner's Manual
080S and 100L	080S and 100L	F & H	Figure 9	Figure 13a/b & 15 Table 5	Use the MR Trolley Owner's Manual
015S up to 050L	020S to 050L	K	Figure 10	Figure 13a/b & 14 Table 5	Use the MR Trolley Owner's Manual
080S and 100L	080S and 100L	K	Figure 10	Figure 13a/b & 15 Table 5	Use the MR Trolley Owner's Manual

For Hoist with Push and Geared Extended Hand wheel Trolley:

Hoist Capacity Code		Container Size	Container Assembly	Container Trolley Assembly and Adjustment	Hoist Trolley Adjustment
(N)ER2	(N)ER, SNER				
001H to 010S and 020C	001H to 020M and 030C	All	Figure 8	Figure 13a/b & 14 Table 6	Table 7
015S up to 050L	020S to 050L	F & H	Figure 9	Figure 13a/b & 14 Table 6	Table 7
080S and 100L	080S and 100L	F & H	Figure 9	Figure 13a/b & 15 Table 8	Use Push or Geared Trolley Owner's Manual
015S up to 050L	020S to 050L	K	Figure 10	Figure 13a/b & 14 Table 6	Table 7
080S and 100L	080S and 100L	K	Figure 10	Figure 13a/b & 15 Table 8	Use Push or Geared Trolley Owner's Manual

KD Type

For Hoists with Motorized or Manual Trolley:

Hoist Capacity Code	Container Size	Container Assembly	Container Trolley Assembly and Adjustment	Hoist Trolley Adjustment
100S to 200S	F & H	Figure 11	N/A	N/A
100S to 200S	K	Figure 12	N/A	N/A

NOTE:

Double fall ER2 units with either Body Size E or F and Chain Container K require additional components (springs) on the hoist. These double fall units are as follows:

030C	Chain Container Assembly	Chain Container Drawing
	SC2H024	70821
	SC2H070	70867
	SC2H058	70855

050L	Chain Container Assembly	Chain Container Drawing
	SC2H067	70864
	SC2H044	70841
	SC2H064	70861

080S	Chain Container Assembly	Chain Container Drawing
	SC2H076	70872
	SC2H098	70902

100L	Chain Container Assembly	Chain Container Drawing
	SC2H081	70877
	SC2H101	70905

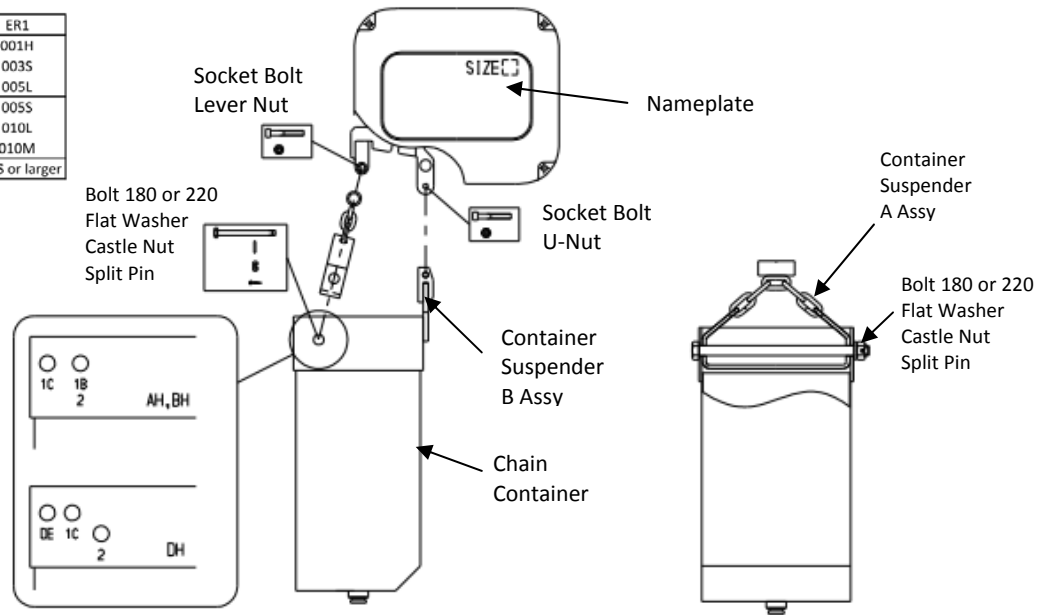
100S	Chain Container Assembly	Chain Container Drawing
150S		
200S		
	SC2H086	70882

Hoist	Std Chain Spring	Replacement Chain Spring 1 (Inner Spring*) – Qty: 1	Replacement Chain Spring 2 (Outer Spring*) – Qty: 1
030C	ES047015	2AKS0309501	E7SE020S9047
050L	ER1EM9051	27KS0509501	ER1FH9051
080S	ES047D025	27KS1009501	-
100L			
100S	ES047D025	27KS1009501 – Qty: 2 (Dual Body Hoists)	-
150S			
200S			

*See drawing for locations.

Table 2

Stamp	ER2	ER1
1B,2	ALL	001H 003S 005L
1C	N/A	005S 010L 010M
DE	N/A	010S or larger

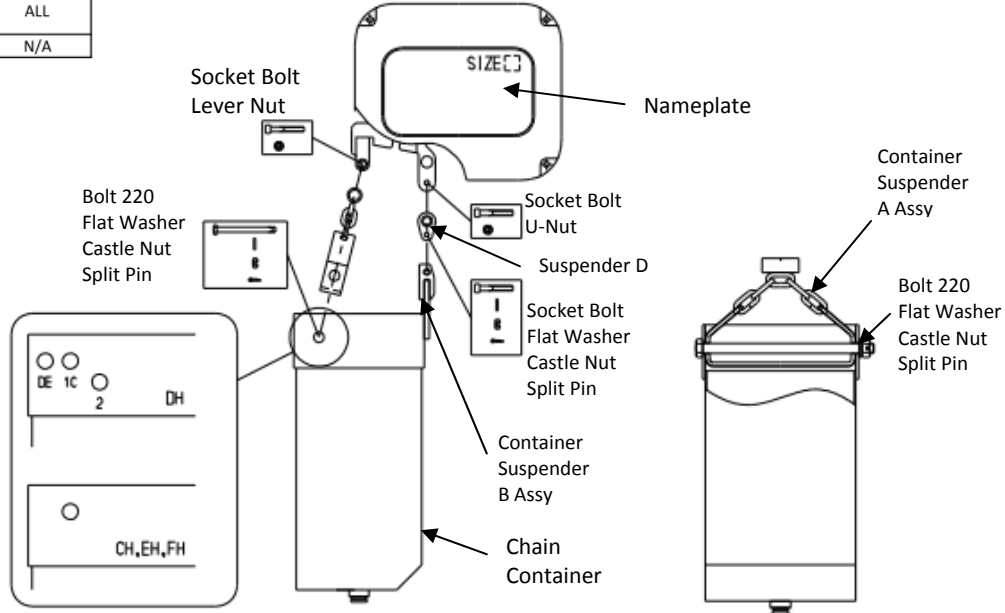


Attach the container suspender A assembly to the appropriate holes by verifying stamps and the following table.
*Fasten the chain container firmly with hardware.

Figure 2 – KA Type for ER2-001H, 003S, 003H, 005L, 005S, 010L, 010S and 020C
ER1-001H, 003S, 005L, 010L, 010M, 010S, 015S, 020L, and 030C

Table 3

Stamp	ER2	ER1
N/A	ALL	ALL
DE		
1C, 2	N/A	N/A

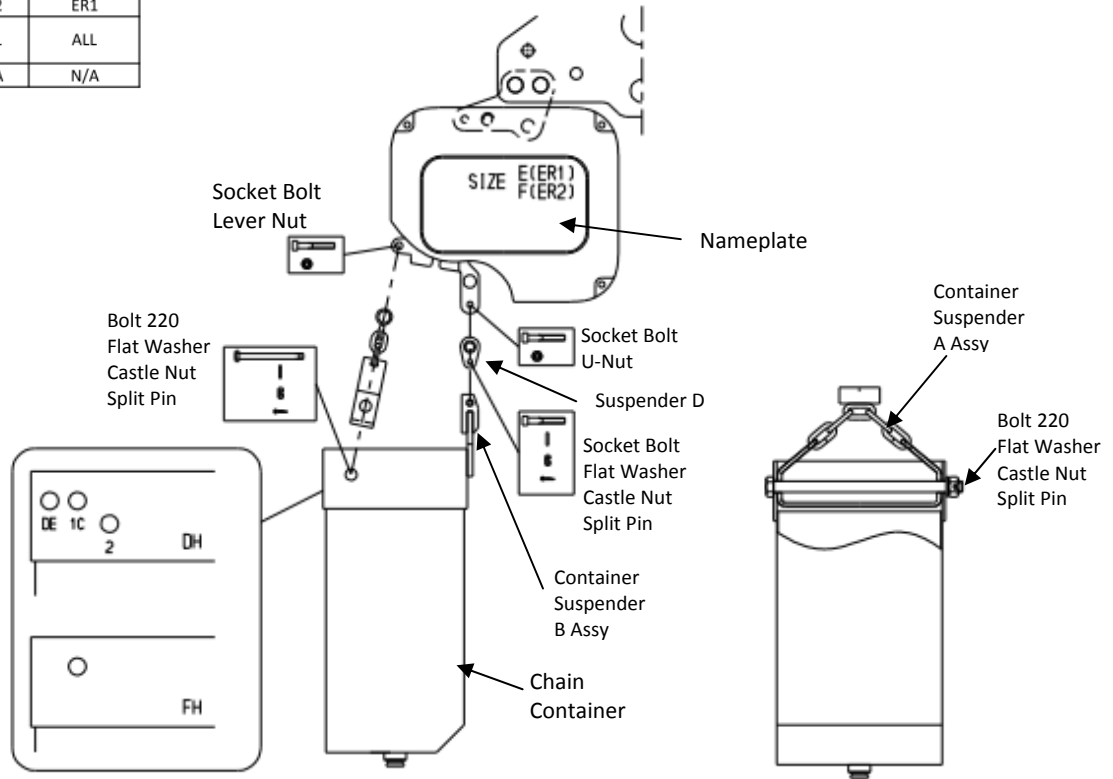


Attach the container suspender A assembly and suspender D to the appropriate holes by verifying stamps and the following table.
*Fasten the chain container firmly with hardware.

Figure 3 – KA Type for ER2-015S, 020L, 020S, 025S, 030L, 030C, 050L, 080S and 100L
ER1-020S, 025S, 030L, 050L, 080S, and 100L

Table 4

Stamp	ER2	ER1
N/A	ALL	ALL
DE		
1C, 2	N/A	N/A



Attach the container suspender A assembly and suspender D to the appropriate holes by verifying stamps and the following table.
*Fasten the chain container firmly with hardware.

Figure 4 – KA Type for Large Capacity Hoists Capacity Code 100S, 150S and 200S
(Uses two hoists)

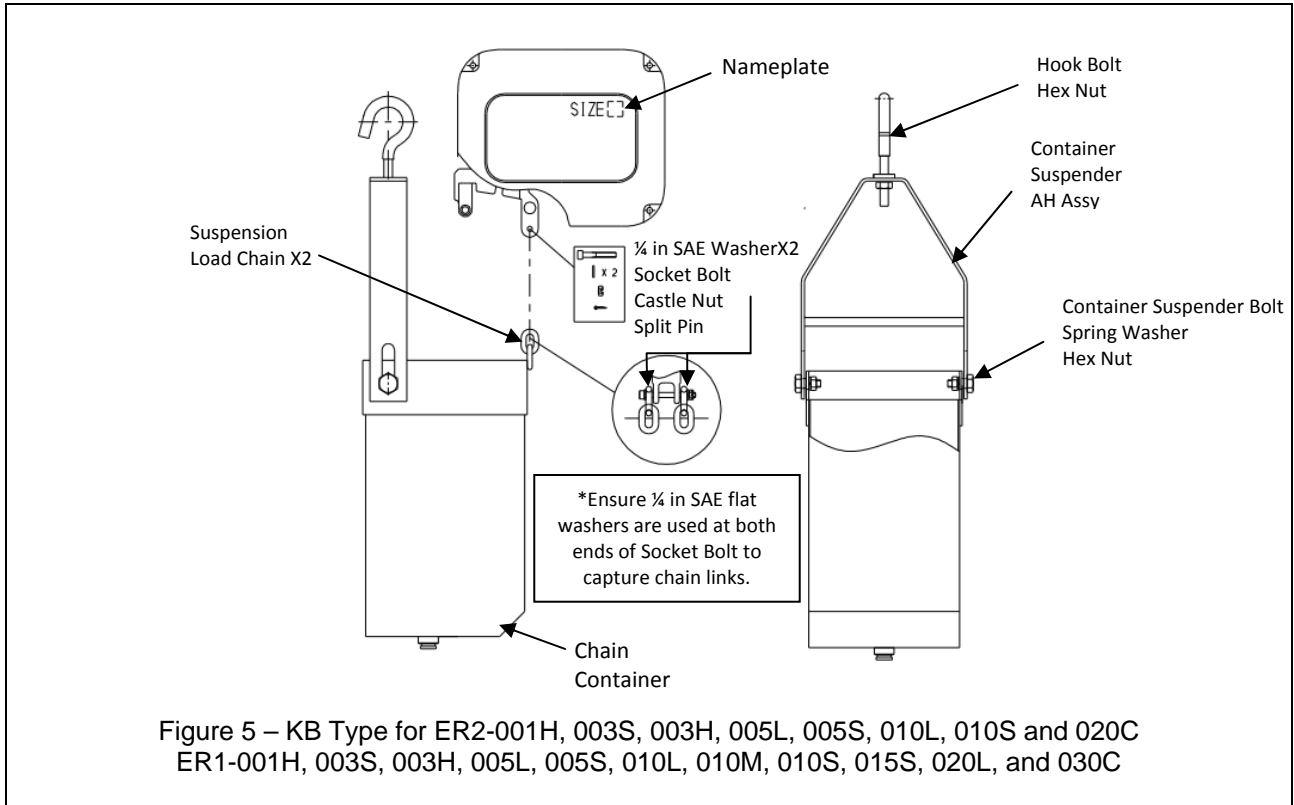
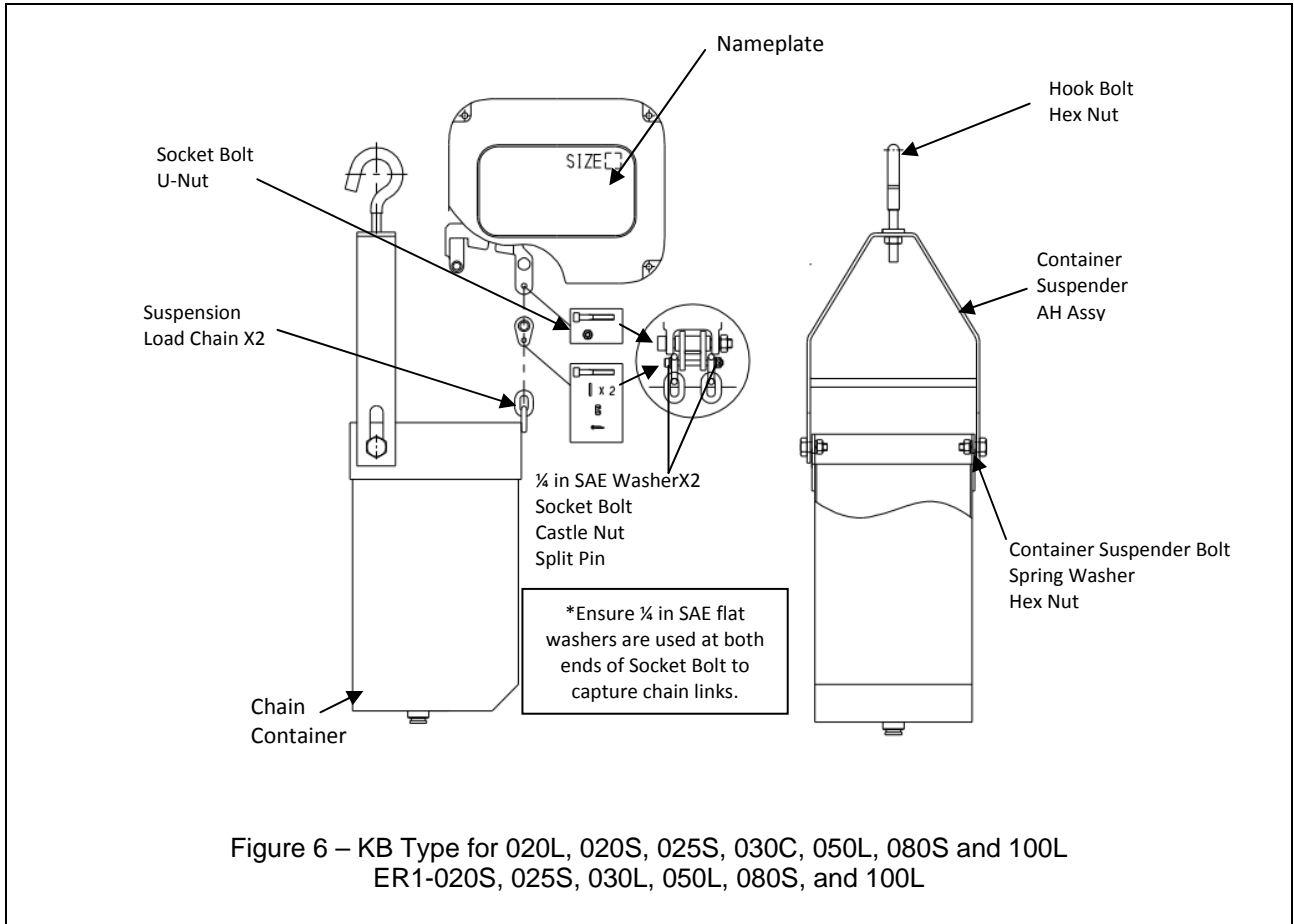
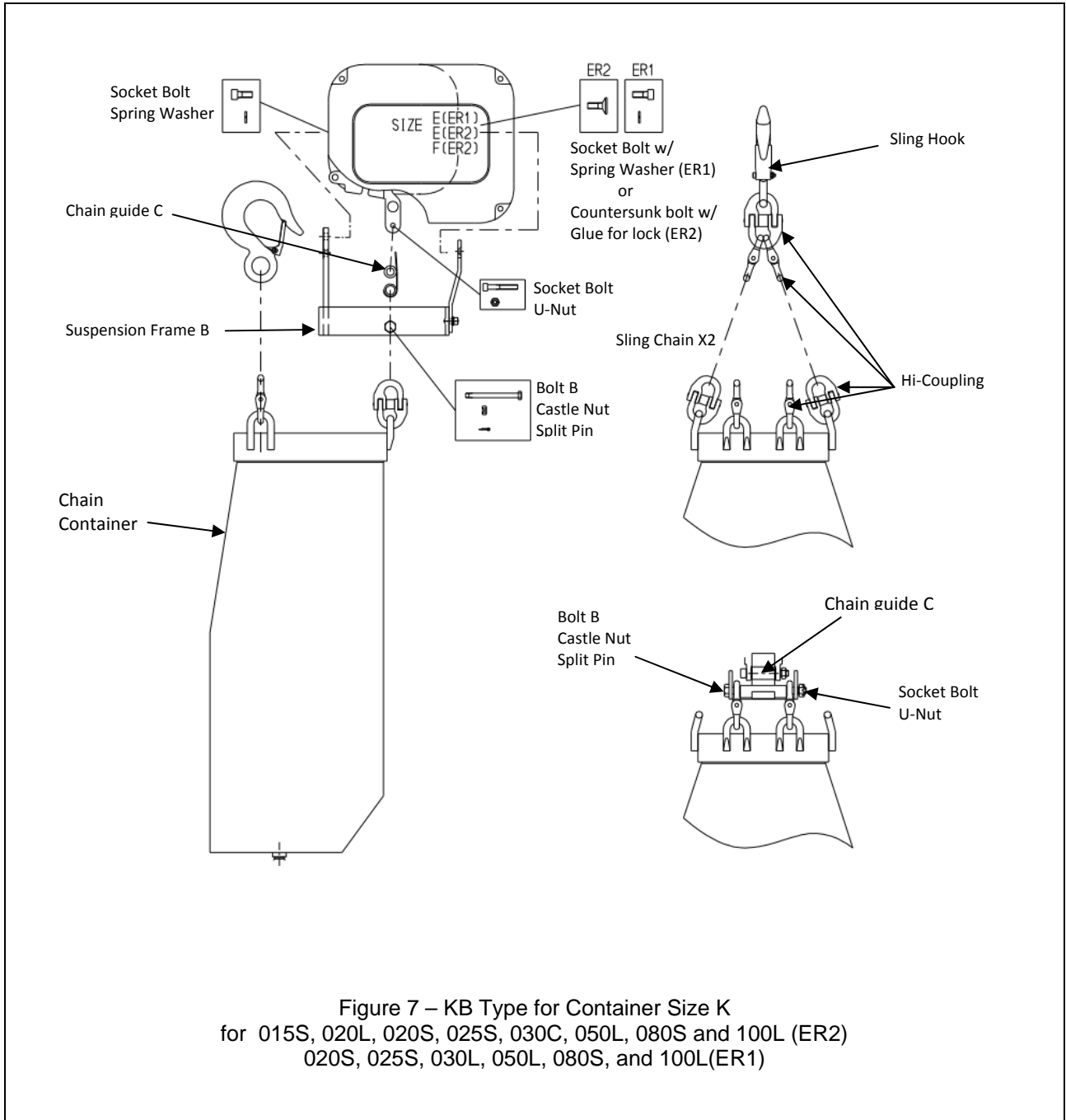


Figure 5 – KB Type for ER2-001H, 003S, 003H, 005L, 005S, 010L, 010S and 020C
ER1-001H, 003S, 003H, 005L, 005S, 010L, 010M, 010S, 015S, 020L, and 030C





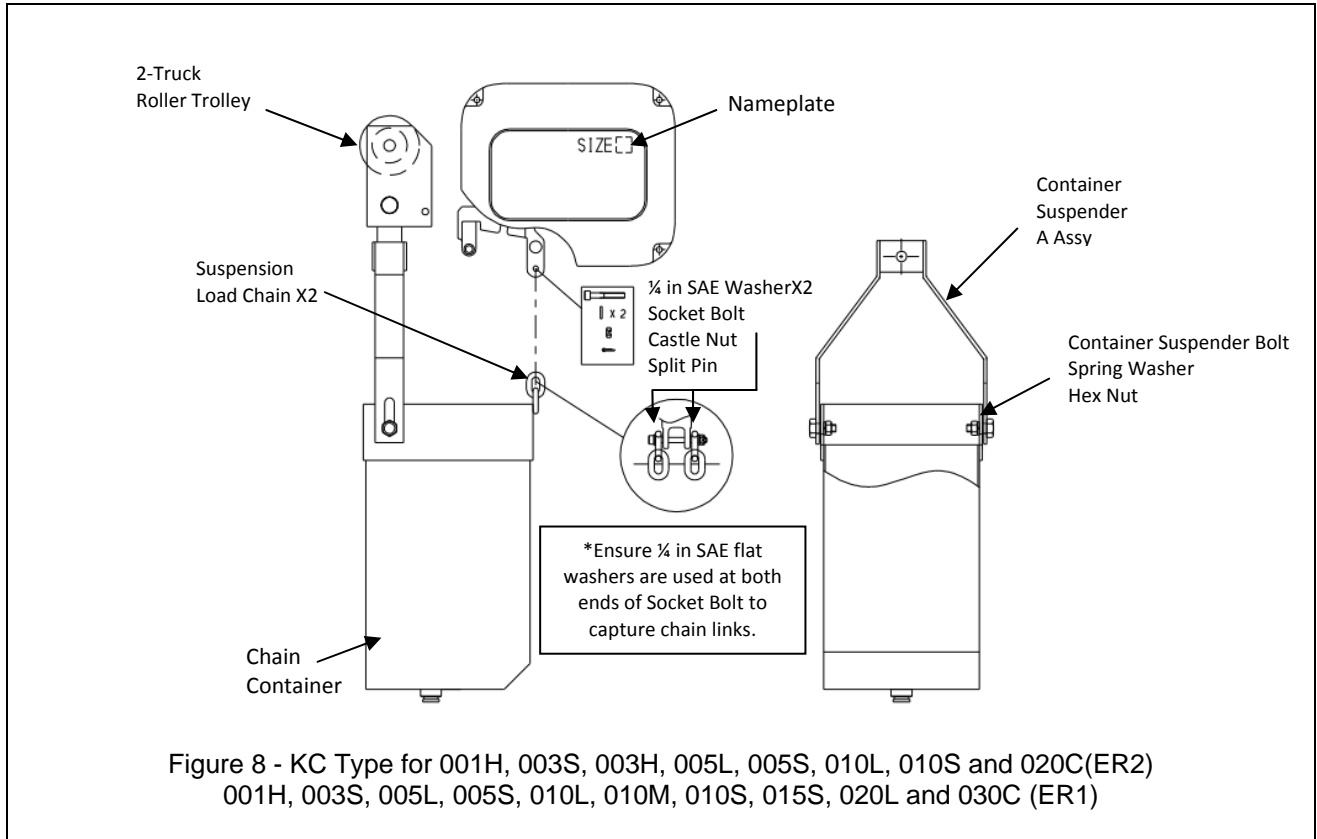


Figure 8 - KC Type for 001H, 003S, 003H, 005L, 005S, 010L, 010S and 020C(ER2)
001H, 003S, 005L, 005S, 010L, 010M, 010S, 015S, 020L and 030C (ER1)

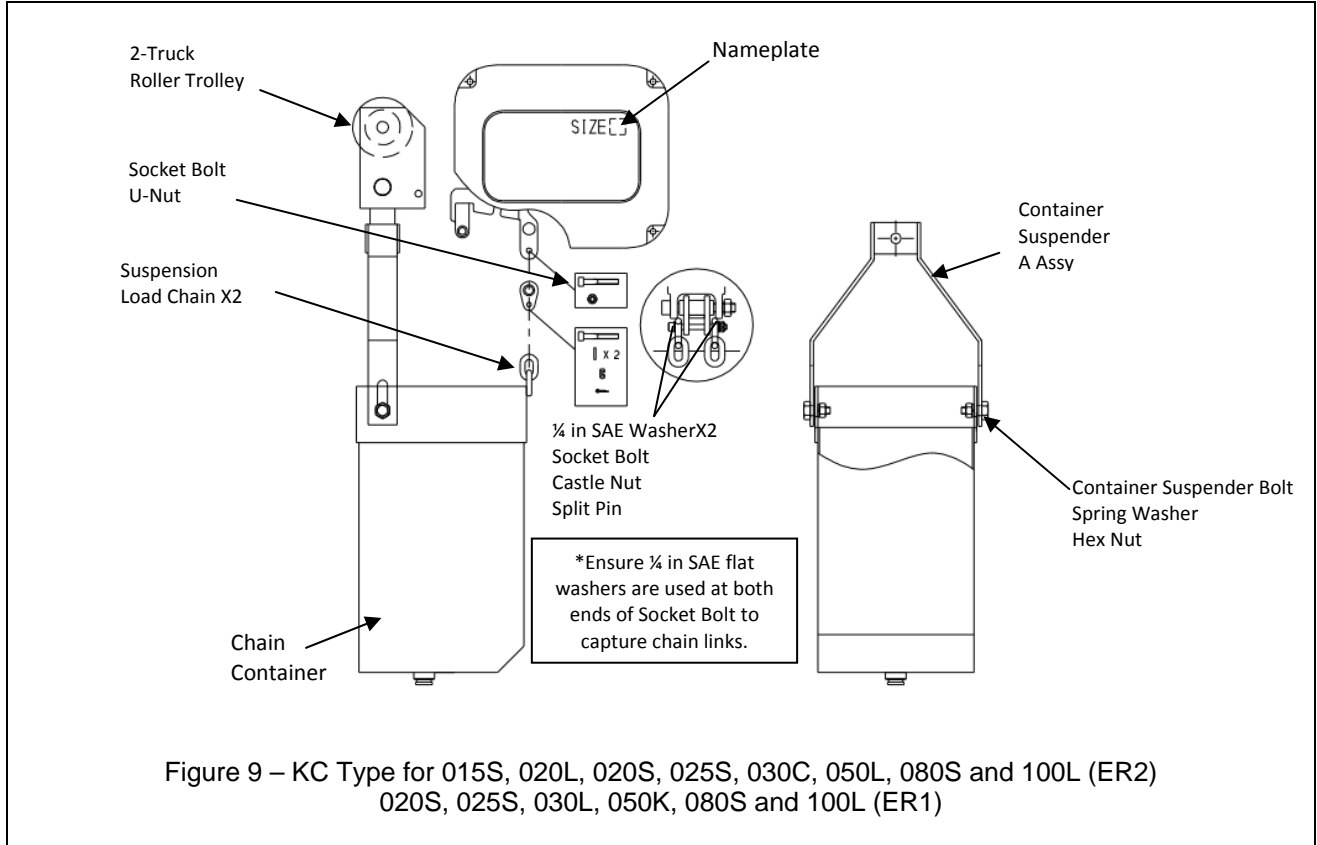
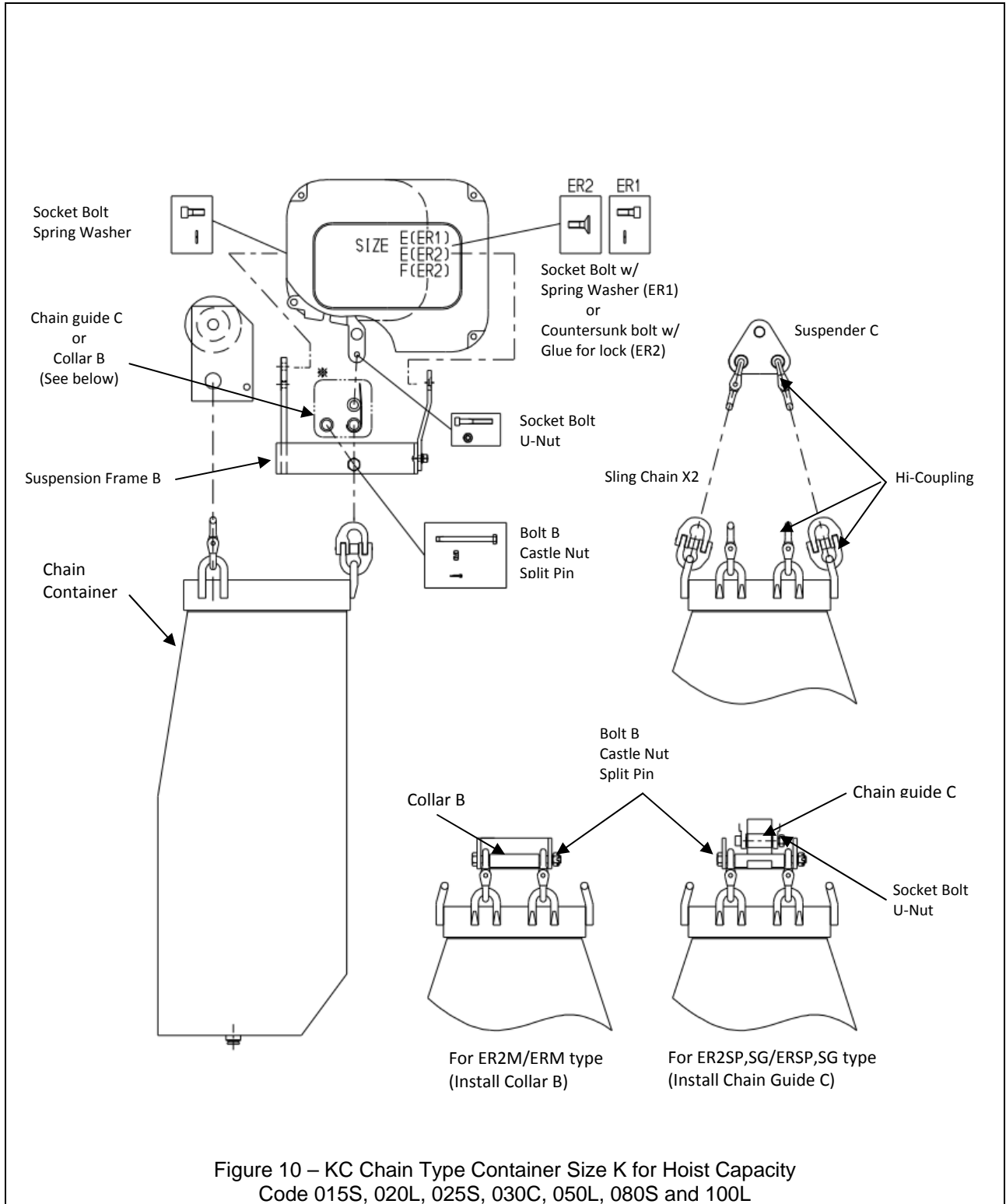


Figure 9 – KC Type for 015S, 020L, 020S, 025S, 030C, 050L, 080S and 100L (ER2)
020S, 025S, 030L, 050K, 080S and 100L (ER1)



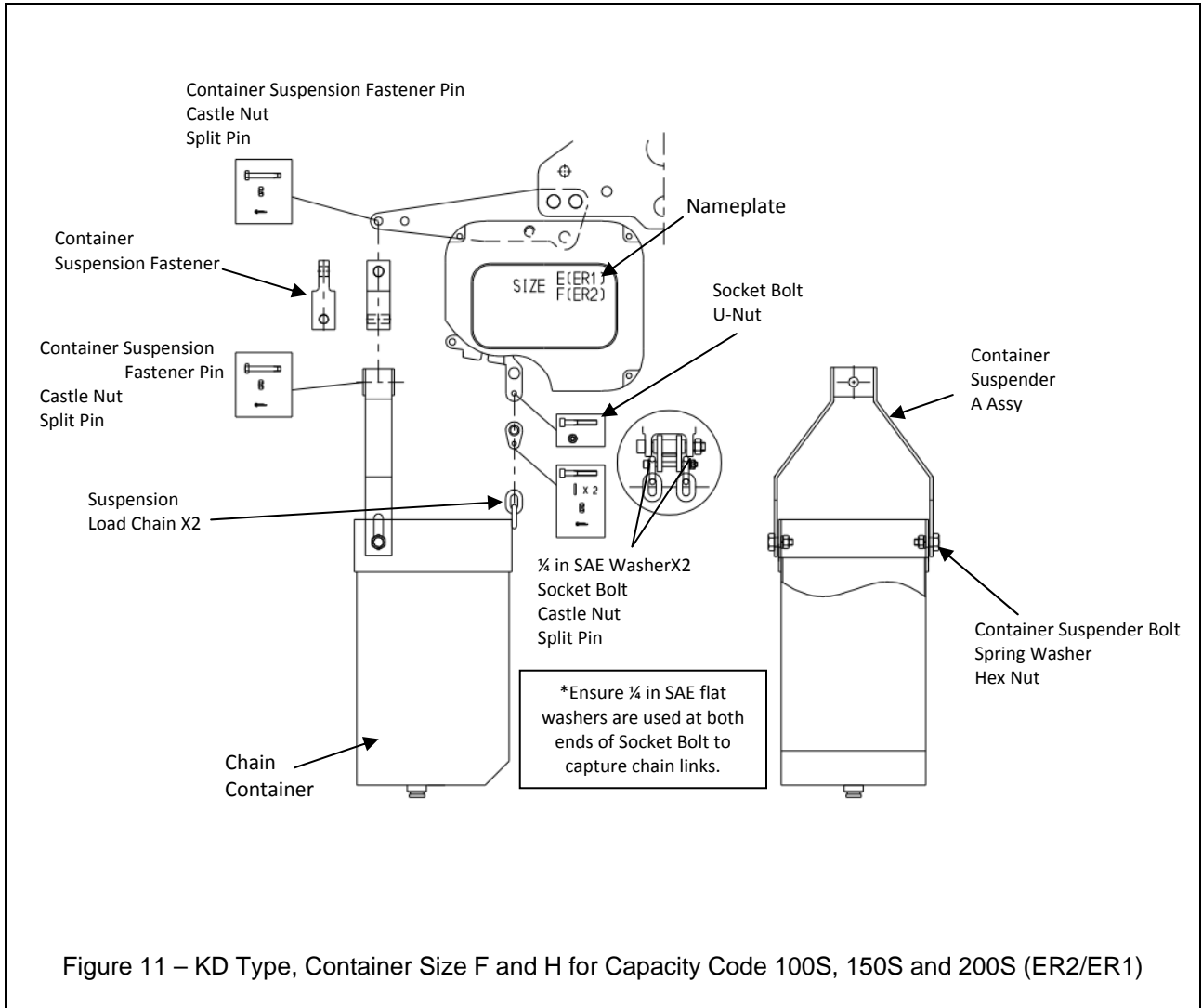


Figure 11 – KD Type, Container Size F and H for Capacity Code 100S, 150S and 200S (ER2/ER1)

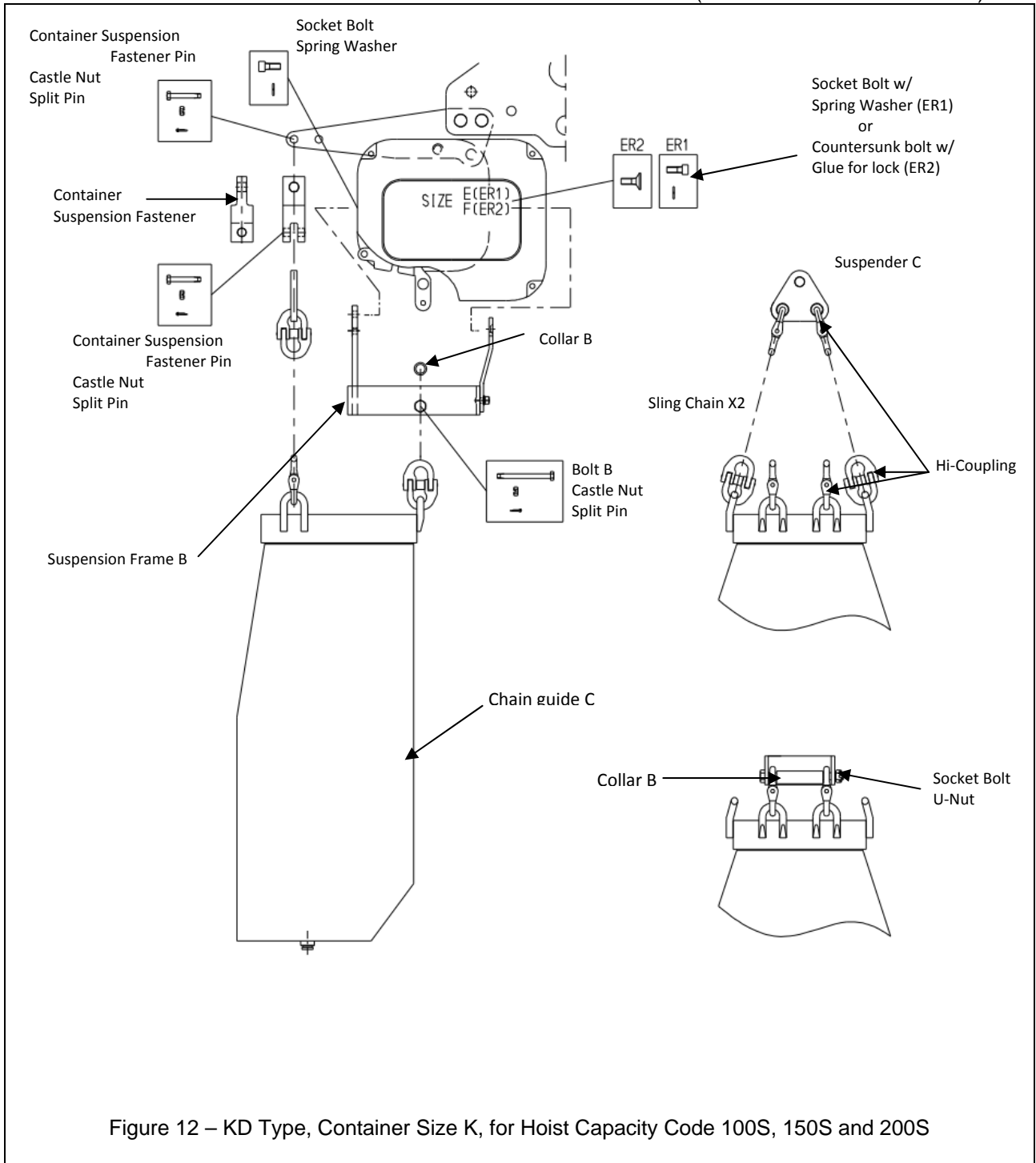
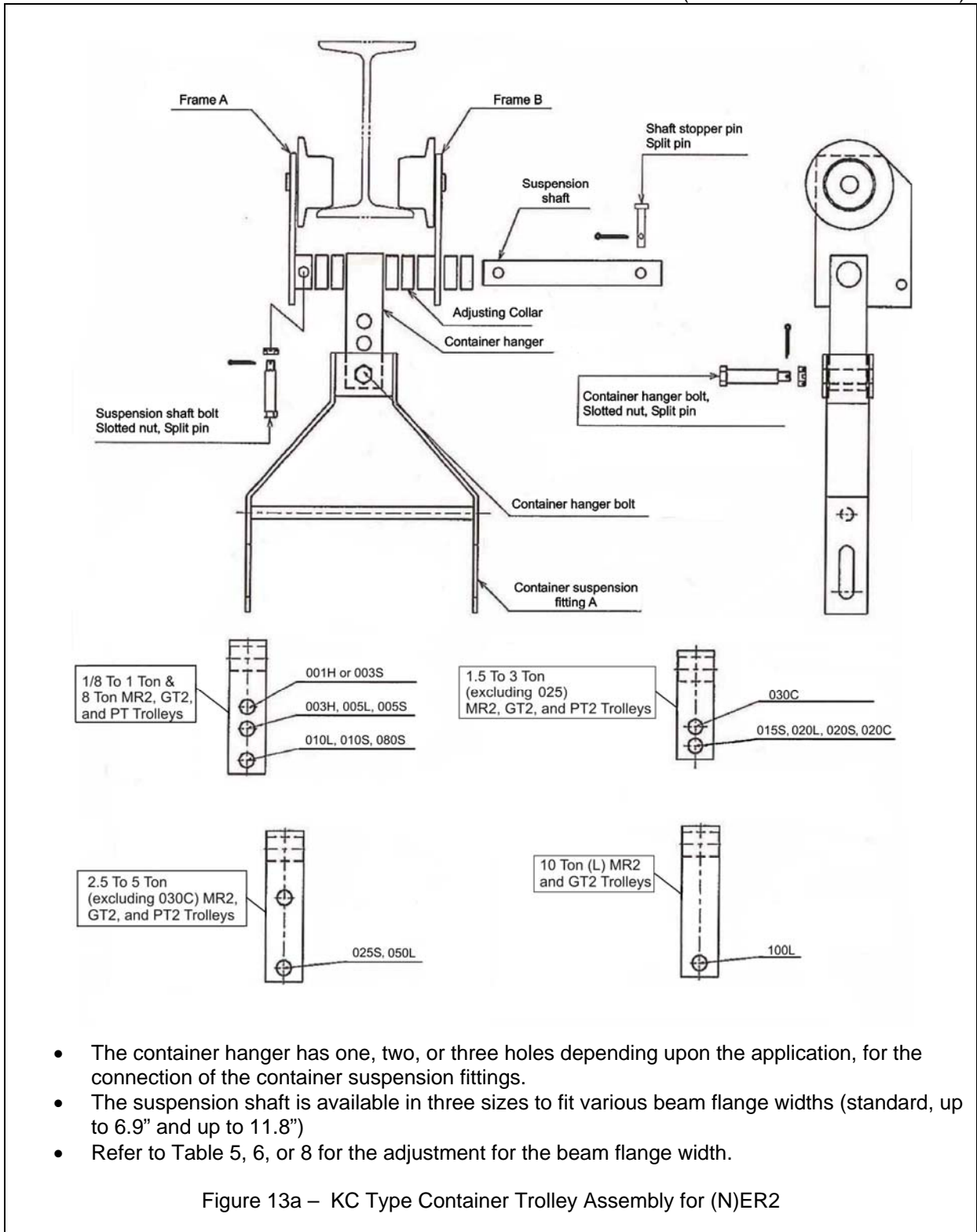
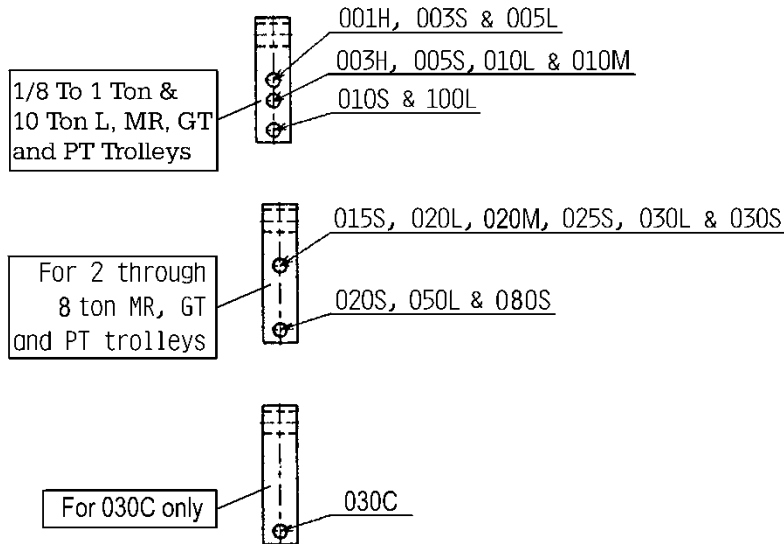
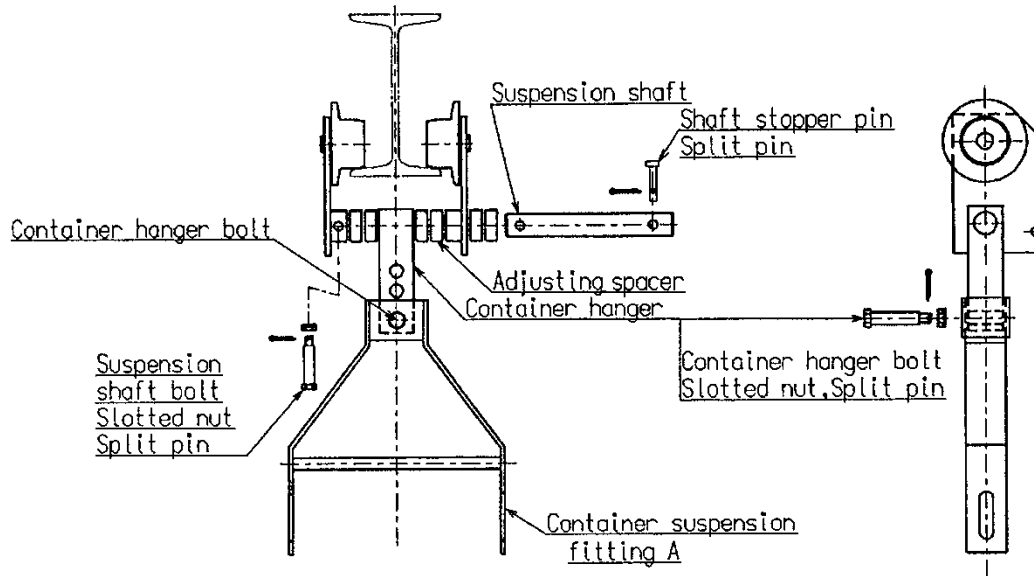


Figure 12 – KD Type, Container Size K, for Hoist Capacity Code 100S, 150S and 200S



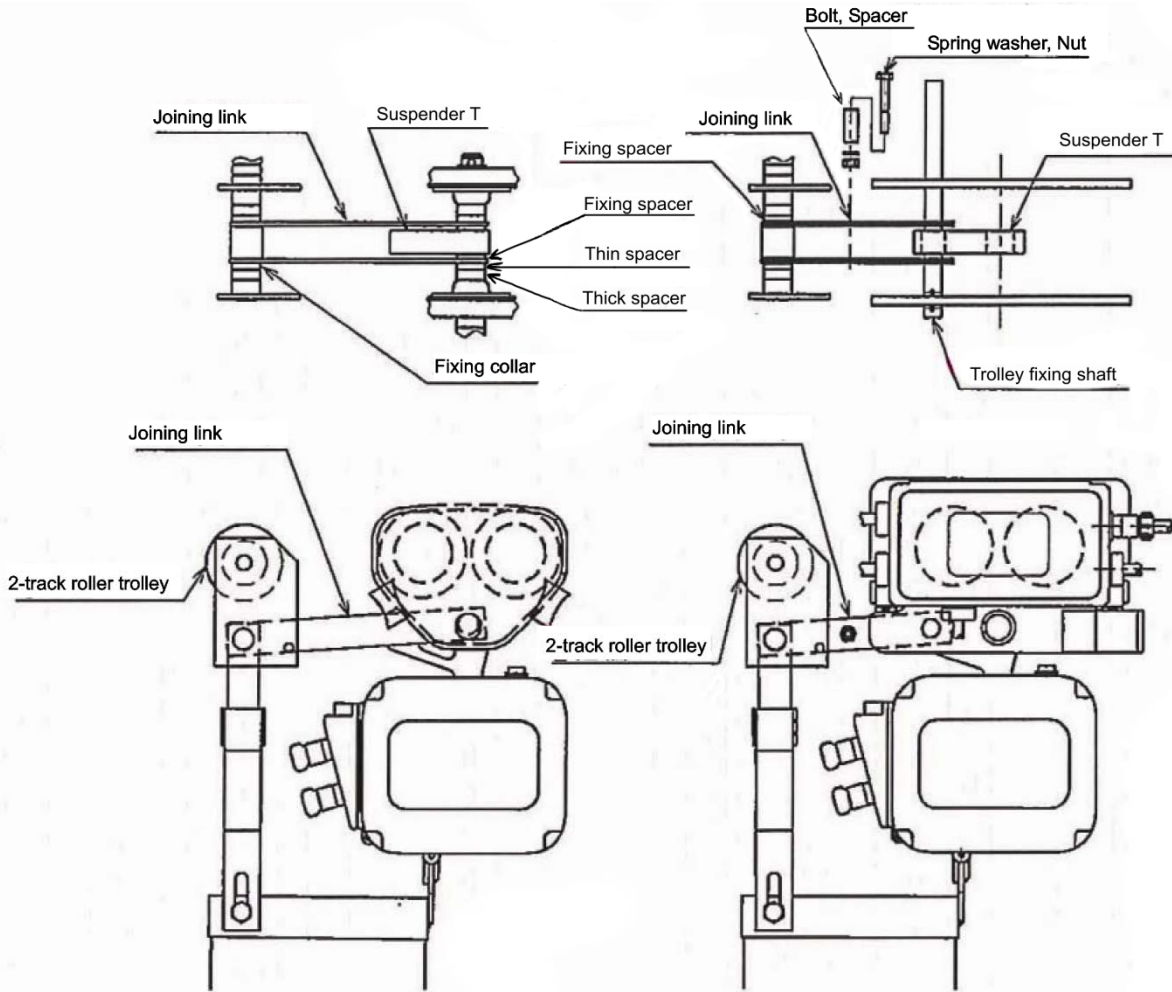
- The container hanger has one, two, or three holes depending upon the application, for the connection of the container suspension fittings.
- The suspension shaft is available in three sizes to fit various beam flange widths (standard, up to 6.9" and up to 11.8")
- Refer to Table 5, 6, or 8 for the adjustment for the beam flange width.

Figure 13a – KC Type Container Trolley Assembly for (N)ER2



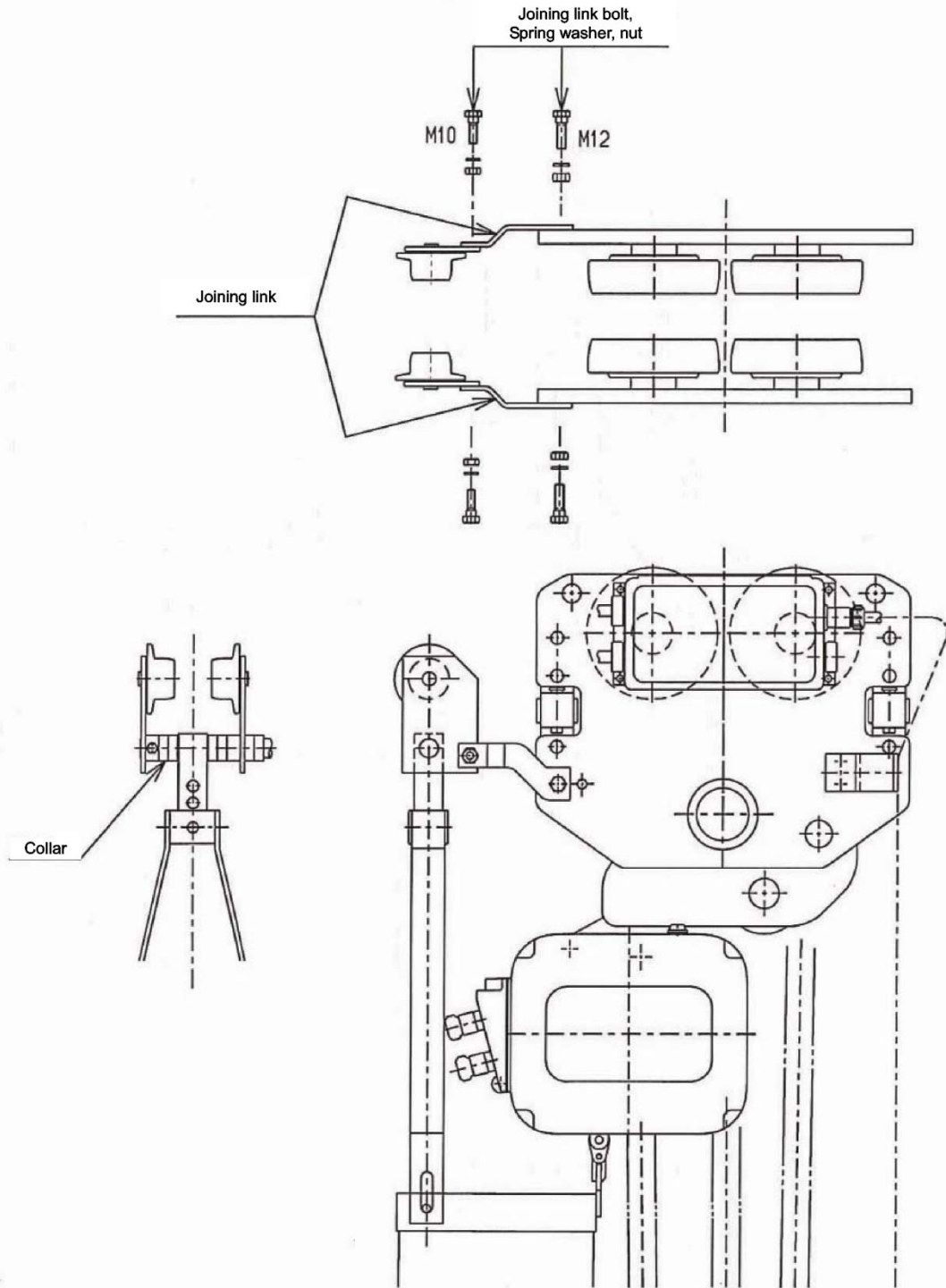
- The container hanger has two or three holes for the connection of the container suspension fittings. Use the appropriate container hanger as required for the hoist capacity.
- The suspension shaft is available in three sizes to fit various beam flange widths (standard, up to 6.9", and up to 11.8").
- Refer to the Table 5, 6 or 8 for the adjustment for the beam flange width.

Figure 13b – KC Type Container Trolley Assembly for (N)ER1 and SNER



- The Joining Link, Fixing Spacer, Thin Spacer and Thick Spacer are included with the steel chain container.
- KC type hoist assembled in accordance with the drawing above.
- For a hoist mounted to a manual trolley (ER2P or ER2G), the spacer arrangement for the hoist's trolley must be adjusted according to Table 7. This is because the container trolley is coupled to the suspension shaft of the hoist's trolley.
- For a hoist mounted to a motorized trolley (ER2M), no adjustments are required to the spacers for the hoist's trolley. This is because the container's trolley is coupled to the trolley fixing shaft of the hoist's trolley, not its suspension shaft.

Figure 14 – KC Type Coupling Container Trolley to Hoist's Trolley



- The connection plate, adjusting spacer are enclosed in your package as the standard accessory parts of the steel chain container.
- KC type hoist is assembled in accordance with the drawing above.
- Adjust the hoist's trolley following the instructions that came with the trolley.

Figure 15 – KC Type Coupling Container Trolley to Hoist's Trolley, for Hoist Capacity 080S and 100L

Table 5 – Container Trolley Spacers Adjustment for KC Type Containers Used with MR2 Trolley,

Beam length width		Number of Adjusting Spacers																																															
		2 1/2 2 5/16	3 3 1/16	3 1/2 3 3/16	3 3/4 3 5/16	4 4 1/16	4 1/4 4 3/16	4 1/2 4 5/16	4 3/4 4 7/16	5 5 1/16	5 1/4 5 3/16	5 1/2 5 5/16	5 3/4 5 7/16	6 6 1/16	6 1/4 6 3/16	6 1/2 6 5/16	6 3/4 6 7/16																																
Capacity	(in)	64	73	82	90	98	100	102	106	110	113	120	119	125	127	131	135	137	143	149	150	180	184	200	203	215	220	229	232	250	254	267	279	283	286	289	295	298	300										
	(mm)	1627	1854	2083	2286	2500	2540	2591	2667	2800	2871	2927	3048	3175	3227	3291	3351	3407	3478	3565	3581	4570	4635	5080	5116	5207	5243	5323	5359	5439	5475	5555	5591	5671	5707	5787	5823	5864	5900	5941	5977								
Thin spacer	Inner	0-1	1-2	2-2	3-3	4-5	5-6	2-2	3-3	3-4	4-4	5-5	2-2	3-3	3-3	3-4	4-4	5-5	2-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4							
	Outer	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							
Thick spacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0						
	Outer	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Fixing spacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0					
	Outer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Thin spacer	Inner	2-2	3-4	4-5	5-5	1-2	2-2	2-2	3-3	3-3	4-4	5-5	1-2	2-2	2-2	3-3	3-3	4-4	5-5	1-2	2-2	2-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3			
	Outer	6	3	1	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0		
Thick spacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0			
	Outer	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Fixing spacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0		
	Outer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thin spacer	Inner	8	7	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4	2	0	7	6	5	4		
	Outer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thick spacer	Inner	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	Outer	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	1	
Fixing spacer	Inner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Outer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: 1) Take note of the numbers on spacers of inner side as follows.



Example
0 + 1
Number on side plate B
Number on side plate A

2) Adjustment of trolley width
Adjust the dimensions by appropriately increasing or decreasing the number of inner or outer adjusting spacers, without strictly adhering to the number of adjusting spacers shown in the above table.

5) *5 Ton MR fixing spacer is identical to the thick spacer.

3) ④ indicates standard range.
⑤ indicates W20 range.
⑥ indicates W30 range.

1	6 7/8	7 7/8
2-3	④	⑤
5		

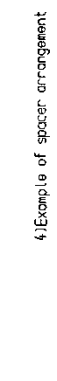


4) Example of spacer arrangement

GENERAL USE
EDOC0960
Rev. 01 8-3-17

Table 6 – Container Trolley Spacers Adjustment for KC Type Containers used with Push and Geared Hoist Trolleys.

Capacity	Beam length width	Number of Adjusting Spacers																																																		
		2 1/2 2 3/8	2 3/4 2 7/8	3 3 1/8	3 1/4 3 1/2	3 5/8 3 3/4	4 4 1/8	4 1/2 4 3/4	4 3/4 4 7/8	5 5 1/8	5 1/4 5 3/8	5 1/2 5 5/8	5 3/4 5 7/8	6 6 1/8	6 1/4 6 3/8	6 1/2 6 5/8	6 3/4 6 7/8	7 7 1/8	7 1/4 7 3/8	7 1/2 7 5/8	8 8 1/8	8 1/4 8 3/8	8 1/2 8 5/8	8 3/4 8 7/8	9 9 1/8	9 1/4 9 3/8	9 1/2 9 5/8	10 10 1/8	10 1/4 10 3/8	10 1/2 10 5/8	11 11 1/8	11 1/4 11 3/8	11 1/2 11 5/8	11 3/4 11 7/8	12 12 1/8																	
1	Inner	64	73	75	82	90	98	100	102	106	110	113	119	125	127	131	136	137	143	149	153	155	160	163	170	175	178	181	185	180	184	200	203	215	220	229	232	250	254	257	260	264	267	279	283	286	289	295	298	300		
	Outer	66	74	76																																																
2	Inner	1+1	2+2	2+3	3+4	3+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6		
	Outer	1+1	2+2	2+3	3+4	3+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6	2+3	3+4	4+4	4+5	5+6		
3	Inner	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0		
	Outer	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0	0+0
5	Inner	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	Outer	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4



Note: 1) Take note of the numbers on spacers of inner side as follows.
 Example: 0 + 1
 0 indicates standard range.
 ④ indicates W20 range.
 ⑤ indicates W30 range.

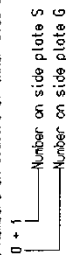
(1) (in)	5/8	7/8
1		
2-3	④	⑤
5		

2) Adjustment of trolley width
 Adjust the dimensions by appropriately increasing or decreasing the number of inner or outer adjusting spacers, without strictly adhering to the number of adjusting spacers shown in the above table.

Table 7 – Hoist's Trolley Spacers Adjustment for Push and Geared Trolleys Used with KC Type Containers

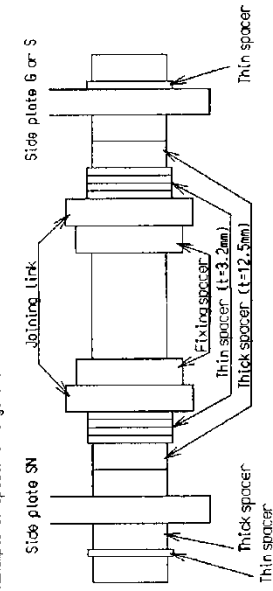
Beam flange width	Capacity	Number of Adjusting Spacers																																			
		2 1/2 2 3/8	3 3 1/4	3 1/2 3 3/8	3 3/4 3 5/8	4 4 1/8	4 1/2 4 3/4	4 3/4 4 5/8	5 5 1/8	5 1/2 5 3/8	5 3/4 5 5/8	6 6 1/8	6 1/2 6 3/8	6 3/4 6 5/8	7 7 1/8	7 1/2 7 3/8	7 3/4 7 5/8	8 8 1/8	9 9 1/8	9 1/2 9 3/8	10 10 1/8	10 1/2 10 3/8	11 11 1/8	11 1/4 11 3/8	11 1/2 11 3/4												
Thin spacer	Inner	1-1	2-2	3-3	4-4	5-5	6-6	7-7	8-8	9-9	10-10	11-11	12-12	13-13	14-14	15-15	16-16	17-17	18-18	19-19	20-20	21-21	22-22	23-23	24-24	25-25	26-26	27-27	28-28	29-29	30-30						
Thin spacer	Outer	1-1	2-2	3-3	4-4	5-5	6-6	7-7	8-8	9-9	10-10	11-11	12-12	13-13	14-14	15-15	16-16	17-17	18-18	19-19	20-20	21-21	22-22	23-23	24-24	25-25	26-26	27-27	28-28	29-29	30-30						
Thick spacer	Inner	0-0	0-0	0-0	0-0	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	1-1	1-1	1-1						
Thick spacer	Outer	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3					
Fixingspacer	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	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1					
Thin spacer	Inner	0-1	2-2	3-3	4-4	5-5	6-6	7-7	8-8	9-9	10-10	11-11	12-12	13-13	14-14	15-15	16-16	17-17	18-18	19-19	20-20	21-21	22-22	23-23	24-24	25-25	26-26	27-27	28-28	29-29	30-30	31-31					
Thin spacer	Outer	1-7	1-4	1-2	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-0	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1		
Thick spacer	Inner	0-0	0-0	0-0	0-0	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	1-1	1-1	1-1	1-1	1-1				
Thick spacer	Outer	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5			
Fixingspacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0			
Thin spacer	Inner	1-2	3-3	4-4	4-5	1-1	1-2	2-2	2-3	3-4	4-5	5-5	1-2	2-2	2-3	3-4	4-5	1-1	1-2	2-2	2-3	3-4	4-5	1-1	1-2	2-2	2-3	3-3	3-3	1-1	1-1	1-1	1-1	1-1			
Thin spacer	Outer	1-7	1-4	1-2	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-0	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1		
Thick spacer	Inner	0-0	0-0	0-0	0-0	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	1-1	1-1	1-1	1-1	1-1	1-1			
Thick spacer	Outer	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5		
Fixingspacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0		
Thin spacer	Inner	1-2	1-2	1-2	2-3	2-3	2-3	2-3	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4		
Thin spacer	Outer	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	
Thick spacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0		
Thick spacer	Outer	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	
Fixingspacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	
Thin spacer	Inner	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1
Thin spacer	Outer	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	
Thick spacer	Inner	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
Thick spacer	Outer	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
Fixingspacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
Thin spacer	Inner	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1	1-8	1-7	1-6	1-5	1-3	1-1
Thin spacer	Outer	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
Thick spacer	Inner	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
Thick spacer	Outer	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
Fixingspacer	Inner	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0

Note: 1) Take note of the numbers on spacers of inner side as follows.



2) Adjustment of trolley width
Adjust the dimensions by appropriately increasing or decreasing the number of inner or outer adjusting spacers, without strictly adhering to the number of adjusting spacers shown in the above table.

4) Example of spacer arrangement



1	5	6	7	8
2	5	6	7	8
3	5	6	7	8
5	5	6	7	8

3) ④ indicates standard range.
⑤ indicates W30 range.
⑥ indicates W30 range.

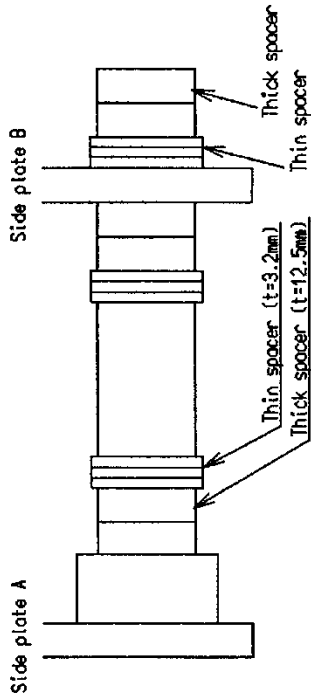
Table 8 – Container Trolley Spacers Adjustment for KC Type Containers used with MR2 & Manual Trolley, 8 & 10L.

Beam flange width		Number of Adjusting Spacers																																
		5/8 15/8	6 15/8	6 1/8 15/8	6 1/4 15/8	6 1/2 15/8	6 3/4 15/8	7 15/8	7 1/8 15/8	7 1/4 15/8	7 1/2 15/8	8 15/8	8 1/8 15/8	8 1/4 15/8	9 15/8	9 1/8 15/8	10 15/8	10 1/8 15/8	10 1/4 15/8	10 1/2 15/8	11 15/8	11 1/8 15/8	11 1/4 15/8	11 1/2 15/8	11 3/4 15/8	12 15/8								
Capacity	Parts	149	150	153	155	160	163	170	175	178	180	184	181	185	229	232	250	254	260	264	267	279	283	286	269	295	298	300						
	Thin spacer	0	0-1	1-2	2-2	3-3	4-4	0-1	1-1	1-2	4-4	0-1	1-2	4-4	0-1	2-3	3-4	4-5	5-5	8-8	1-1	1-2	2-3	3-3	4-5	5-6	6-6	6-7	7-7	8-8				
8	Outer	8	7	6	5	4	2	0	7	6	5	0	7	6	5	0	15	11	9	7	6	0	14	13	13	11	10	7	5	4	3	2	1	0
	Thin spacer	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	5-5	5-5	5-5	5-5	5-5	6-6	6-6	6-6	6-6	6-6	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8
10	Outer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Thick spacer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: 1) Take note of the numbers on spacers of inner side as follows.



4) Example of spacers arrangement



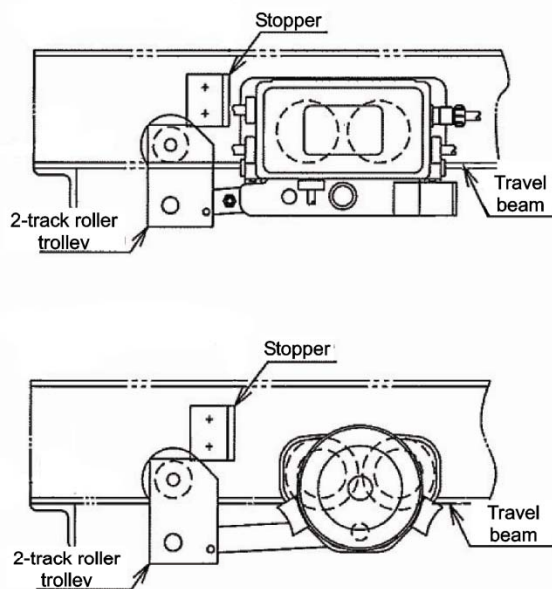
2) Adjustment of trolley width
Adjust the dimensions by appropriately increasing or decreasing the number of inner or outer adjusting spacers, without strictly adhering to the number of adjusting spacers shown in the above table.

- 3) ① indicates standard range.
 ② indicates W20 range.
 ③ indicates W30 range.
- | | | | |
|-----|------|-------|-------|
| (t) | (in) | 6 7/8 | 7 7/8 |
| 8 | ① | ② | ③ |
| 10 | | | |

Post Installation Checks

- ⚠ WARNING** • Check all container, suspension, and trolley hardware to ensure that it is securely fastened. Check all slotted nuts and split pin locations to confirm all are installed. Neglecting to install these items can cause the chain to spill out, resulting in hoist/trolley damage, or serious injury.
- ⚠ WARNING** • Be sure to use the number of adjustment collars specified in Tables 5, 6, 7, and 8. If the specified number of collars is not used, the trolley could fall or run off the track.

Installing A Rail End Stopper



- When using a 2-track roller trolley with a KC type steel chain container, install the stopper in a position as shown in the figures to the left so that it securely receives the trolley car (the trolley frame when using GT or PT) while not coming into contact with the 2-track roller.

Chain Container and Water Accumulation

- When using the equipment outdoors, rainwater may enter the chain container. If this occurs, remove the oil plug and allow the water to drain. This will not only extend the life of the chain, but the container as well.

