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Yale[®] *SHAW-BOX*. YK[™], SK[™], Y80 & 800 Series

CRANE KIT ASSEMBLY INSTRUCTION MANUAL

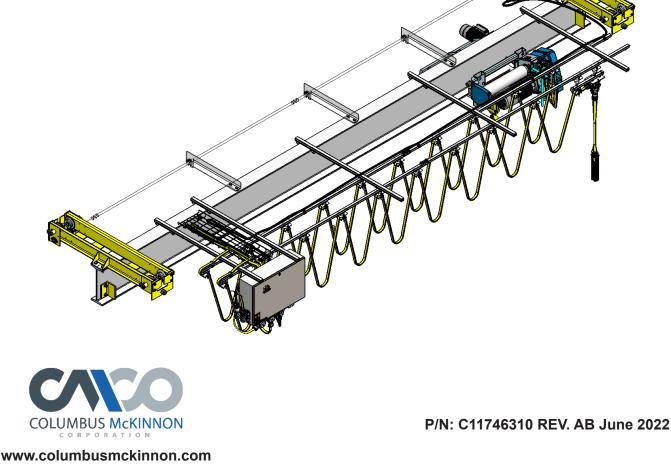


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CHAPTER 1 SAFETY PRECAUTIONS

Safety Alert Symbols

Throughout this manual are steps and procedures that can prevent hazardous situations; the following symbols are used to identify the degree or level of hazard seriousness.

DANGER, WARNING, CAUTION AND NOTICE

<u>Symbol</u>	Description		
	Danger Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury and property damage.		
AWARNING	Warning Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury and property damage.		
	Caution Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and property damage.		
NOTICE	Notice Notifies people of installation, operation or maintenance information which is important but not directly hazard-related.		

WARNING

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

IMPORTANT INFORMATION AND WARNINGS

- ✓ Failure to read and comply with any of the limitations noted herein can result in serious bodily injury or death, and/or property damage.
- Equipment described in this manual is not designed for and should not be used for lifting, supporting, or transporting humans.
- ✓ To ensure the good working order and reliable operation of your hoist, strictly adhere to the requirements of the installation provided in this manual.
- ✓ Strictly adhere to the requirements for safe operation to prevent dangers to personnel and damages to the electric hoist.
- ✓ When making repairs, only use parts supplied by the manufacturer.
- ✓ The connection of the bridge panel power cable with the crane runway power supply shall only be performed by a qualified electrician.
- Assembly and commissioning of the crane system shall only be done by qualified persons authorized by CMCO.
- ✓ Modifications to upgrade, re-rate, or otherwise alter this equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.
- ✓ Equipment described in this manual may be used in the design and manufacture of cranes. Additional equipment or devices may be required for the crane to comply with applicable crane design and safety standards. The crane designer, crane manufacturer, or user is responsible for finishing these additional items for compliance. Refer to ASME B30.11 Safety Standard for Underhung Cranes. If a below-the-hook lifting device or sling is used with a hoist, refer to ASME B30.9, Safety Standard for Slings, or ASME B30.20, Safety Standard for Below-the-Hook Lifting Devices.
- ✓ Hoists and cranes used to handle hot molten material may require additional equipment or devices. Refer to ANSI Z241.2, Safety Requirements for Melting and Pouring of Metals in the Metal Casting Industry.
- ✓ The hoists are not designed to operate in a chemically aggressive and explosive environment.

Working in or near exposed energized electrical equipment presents the danger of electric shock.

WARNING

Before installing, removing inspecting, or performing any maintenance on a hoist, the main switch shall be de-energized. Lock and tag the main switch in the de-energized position in accordance with ANSI Z244.1.

Follow other maintenance procedures outlined in this manual and applicable ASME B30 volumes.

Additional WARNINGS are listed in various portions of this manual. Personnel shall read and follow these WARNINGS. Failure to read and comply with these WARNINGS as well as other instructions or any limitations noted in this manual and applicable ASME B30 volumes could result in serious bodily injury or death, and/or property damage.

- ✓ Read and observe the instructions and warnings contained in this manual. Read and observe any instructions and warning tags attached to the hoist.
- Check for any damage to the components during shipment. If any damage has occurred, place a claim with the carrier. DO NOT install a damaged components.
- Check wire rope for damage and proper spooling on the drum. Be sure rope is properly seated in drum grooves and sheaves. Tightly secure both of the rope ends.
- ✓ After each rope replacement as well as after repair and reassembling of the electric hoist, check the phasing and direction of operation. Verify the hook position of all limit switches per the hoist manual.
- Be certain that power supply to the bridge control panel has the same voltage, frequency, and phase specified on the bridge control panel nameplate.
- ✓ While performing electric repairs/maintenance, make sure that there is no load on the hook; turn off the power supply switch and prevent unauthorized personnel from switching it on.
- Check the loading hook for cracks and deformations. Verify the proper operation of the release latch.
- ✓ The bridge frame shall not be considered electrically grounded through the end truck wheels and its respective tracks. A separate runway bonding conductor must be provided.

A WARNING

Hazardous voltages are present in the control enclosure, other electrical components, and connections between these components.

Before performing any mechanical or electrical maintenance on the equipment, disconnect the main switch supplying power to the equipment and implement lockout/tagout procedure. Refer to ANSI Z244.1, personnel protection - lockout/tagout of energy sources.

DO NOT operate the equipment without control enclosure cover or covers in place.

Only trained and competent personnel should inspect and repair this equipment.

- ✓ If hoist has a trolley, check that the crane bridge beam is level, straight, and clean. Check that trolley stops are installed, or install trolley stops, at the open end or ends of the beam to prevent the trolley from traveling off the beam. Avoid using trolley stops that engage trolley wheels. Check that trolley stops will prevent overhanging parts of the hoist and trolley from interfering with other equipment beyond the ends of the beam.
- ✓ Daily, before starting work, check the operation of the brake and the limit switch.
- \checkmark Never use a limit switch as an operational switches.
- ✓ Do not leave the lifted load out of sight.
- ✓ Do not exceed the rated capacity.
- \checkmark Do not lift loads at an angle and do not drag them.
- \checkmark Do not try to detach firmly fixed loads (for example, loads frozen to the ground).
- ✓ Do not change or modify the electric diagram. Do not use the pushbuttons and limit switches for other purposes other than those mentioned in this manual.
- Equipment covered herein is not designed or suitable as a power source for lifting or lowering persons. Never lift and move loads over personnel.
- ✓ Use warning signs and barriers on the floor beneath the crane or area where the hoist will be installed.

A WARNING

Damage to the hoist, a droped load, and injury may result if limit switches fail due to improper use.

Under normal operating conditions, stop hoist travel before engaging limit switches. Limit switches are safety devices and should not be used as normal opertating control.

A WARNING

Only qualified personnel with proper supervision shall install the hoist on the monorail and perform the final pre-operation inspection.

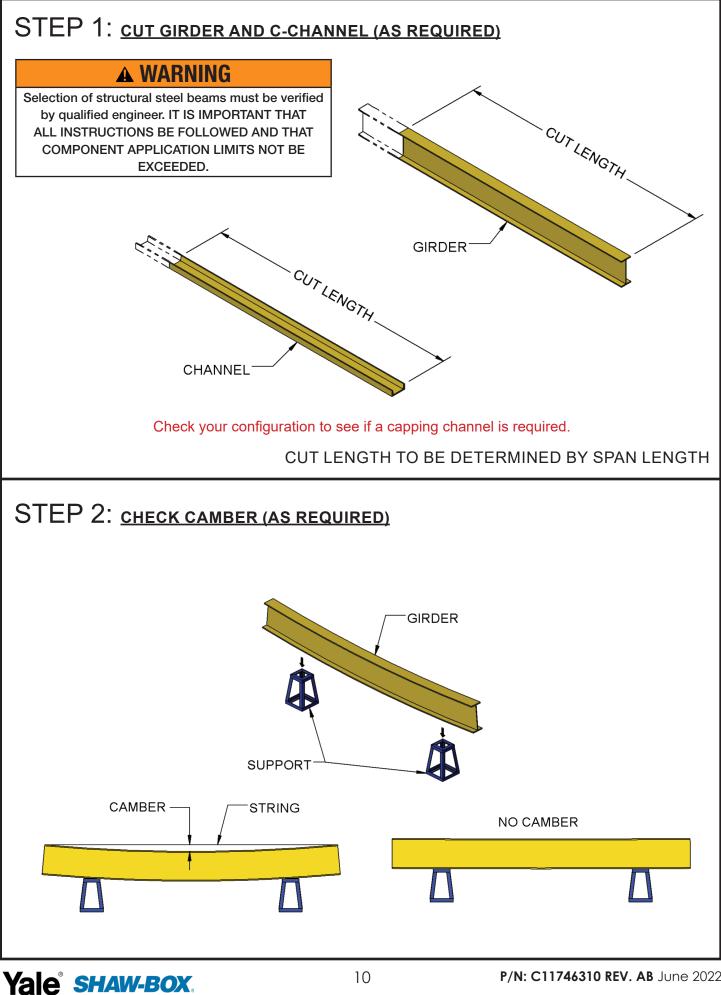
Before installing, removing, inspecting, or performing any maintenance on a hoist, the main switch shall be de-energized. Lock and tag the main switch in the de-energized position in accordance with ANSI Z244.1.

Follow other maintenance procedures outlined in the manual and applicable ASME B30 volumes.

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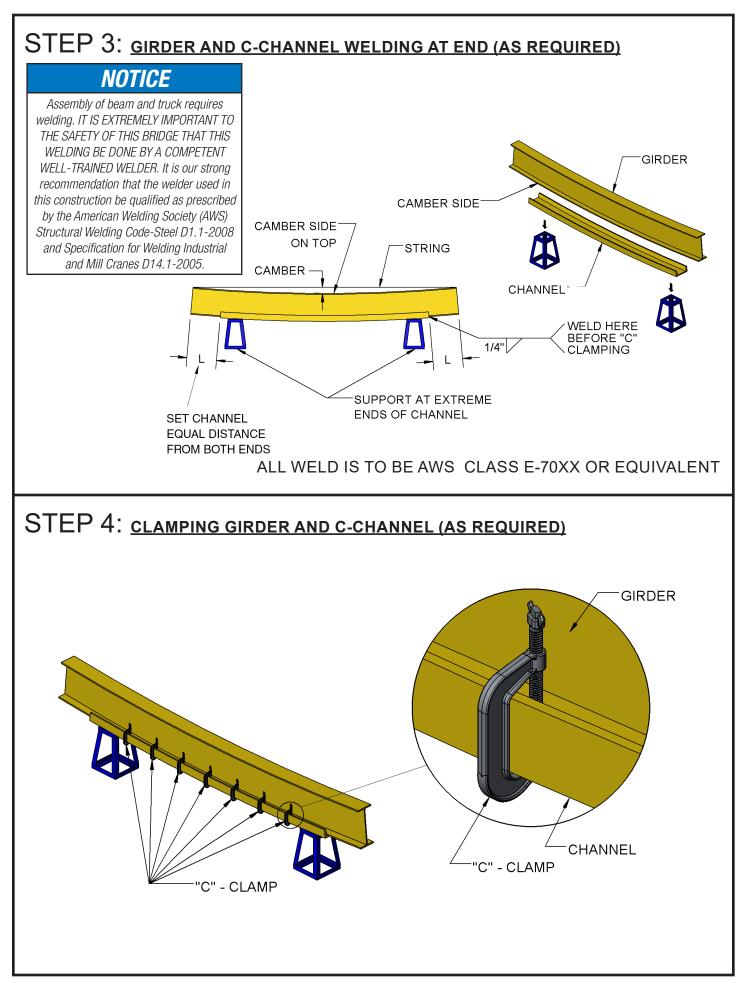
CHAPTER 2

FABRICATION OF GIRDER(S) FOR BRIDGE BEAM WITH CAPPING CHANNEL (AS REQUIRED)

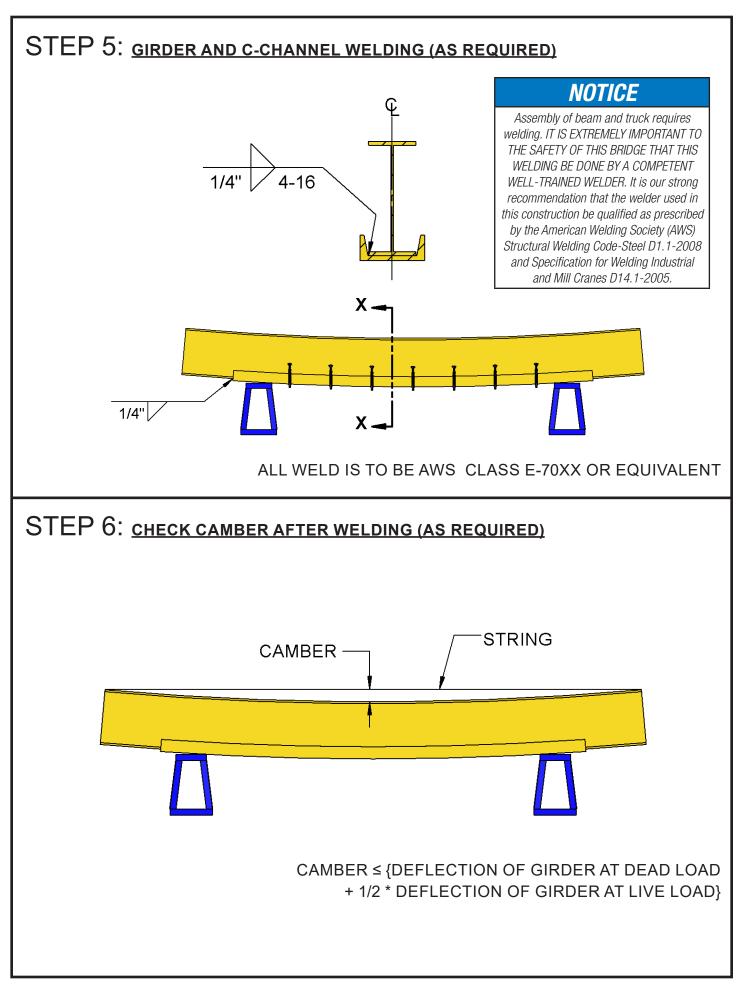


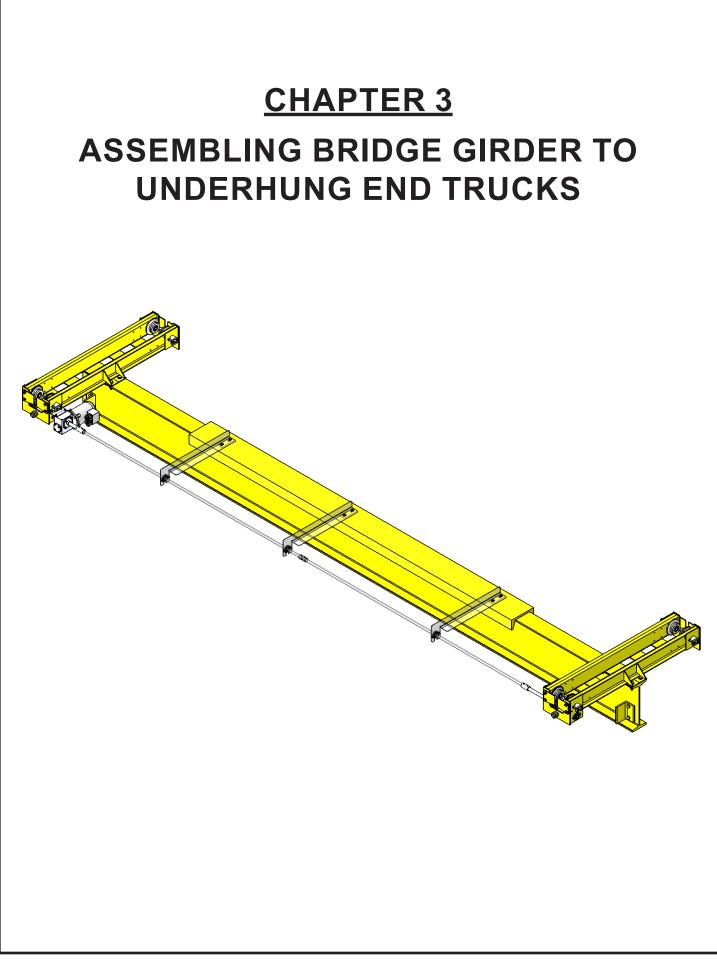
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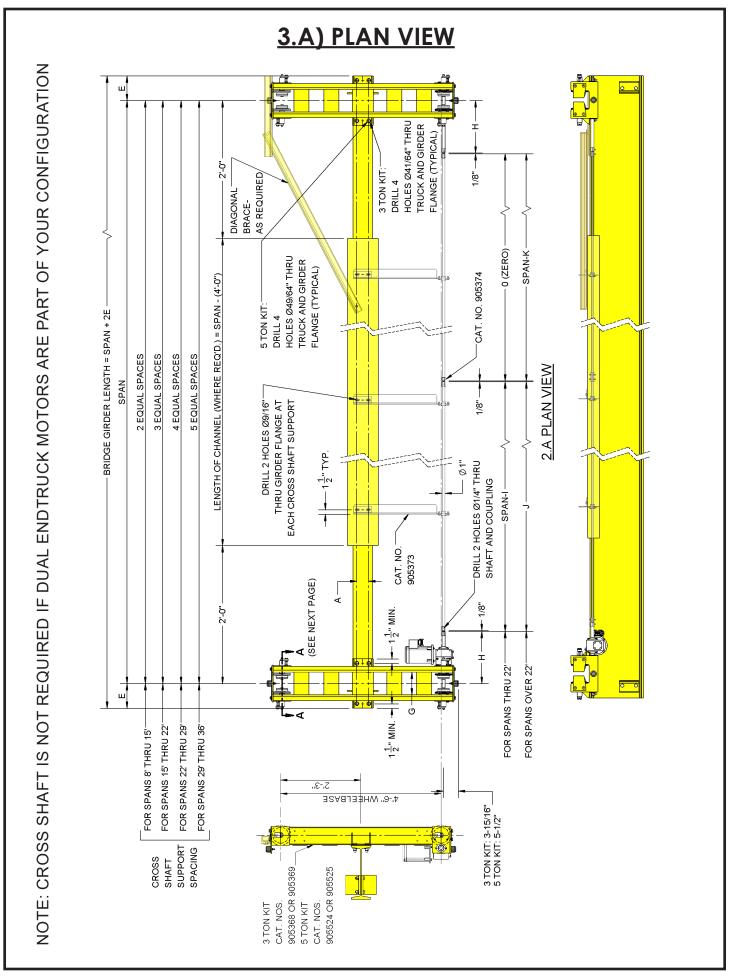
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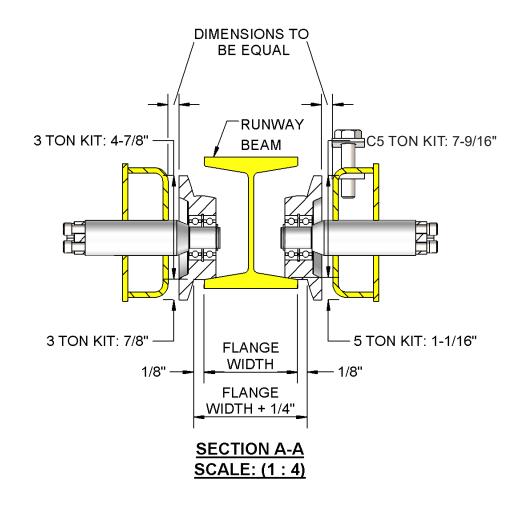




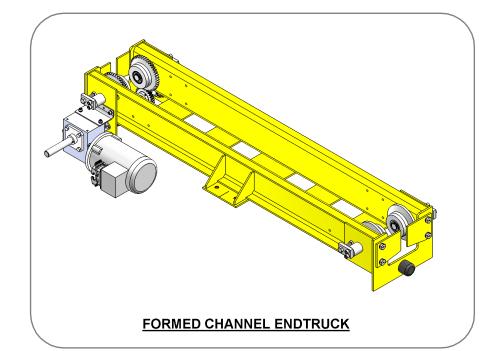
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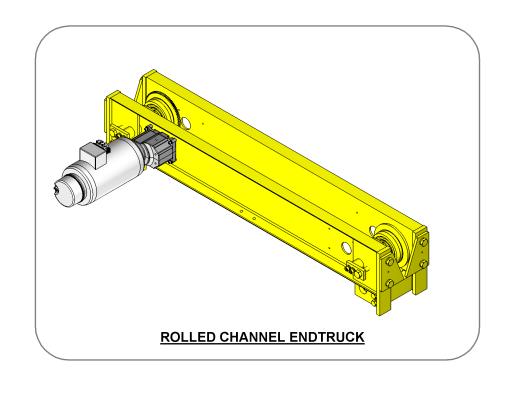
3.B) DIMENSION DETAILS FOR GIRDER LENGTH CALCULATION

TRUCKS CONFIGURATION NUMBERS	DISTANCE BETWEEN CENTER OF END TRUCK AND EXTREME END OF ITS TOW PLATE	INTERNAL SPACE BETWEEN END TRUCK CHANNELS	LENGTH OF DRIVE SHAFT FROM END TRUCK CENTER	LENGTH OF FIRST CROSS SHAFT		LENGTH OF SECOND CROSS SHAFT
	E	G	Н	I	J	К
905368, 905369	8-1/4"	7-5/8"	1' - 2"	2' - 4-1/4"	14' - 9"	17' - 1-3/8"
905368W1, 905369W1	9-1/2"	10-1/8"	1' - 3-1/4"	2' - 6-3/4"	14' - 7-3/4"	17' - 2-5/8"
905368W2, 905369W2	10-3/4"	1' - 0-5/8"	1' - 4-1/2"	2' - 9-1/4"	14' - 6-1/2"	17' - 3-7/8"
905368PT, 905369PT	8-1/4"	7-5/8"	1' - 2"	2' - 4-1/4"	14' - 9"	17' - 1-3/8"
905368SR, 905369SR	8-1/4"	7-5/8"	1' - 2"	2 - 4-1/4"	14' - 9"	17' - 1-3/8"
905524, 905525	9-3/8"	8-7/8"	1' - 2-5/8"	2' - 5-1/2"	14' -9"	17' - 2-5/8"
905524W1, 905525W1	10-11/16"	11-1/2"	1' - 3-15/16"	2' - 8-1/8"	14' - 7-3/4"	17' - 4"
905524W2, 905525W2	11-15/16"	1' - 2"	1' - 5-3/16"	2' - 10-5/8"	14' - 6-1/2"	17' - 5-1/4"
905524PT, 905525PT	9-3/8"	8-7/8"	1' - 2-5/8"	2' - 5-1/2"	14' - 9"	17' - 2-5/8"
905524SR, 905525SR	9-3/8"	8-7/8"	1' - 2-5/8"	2' - 5-1/2"	14' - 9"	17 - 2-5/8"

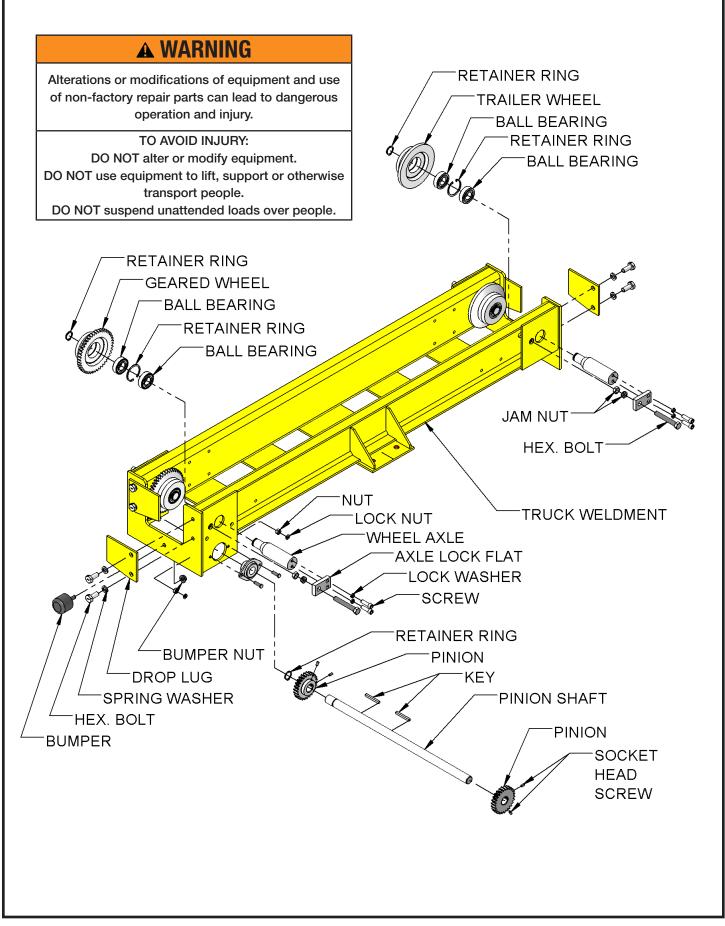


3.C) UNDERHUNG END TRUCK TYPES

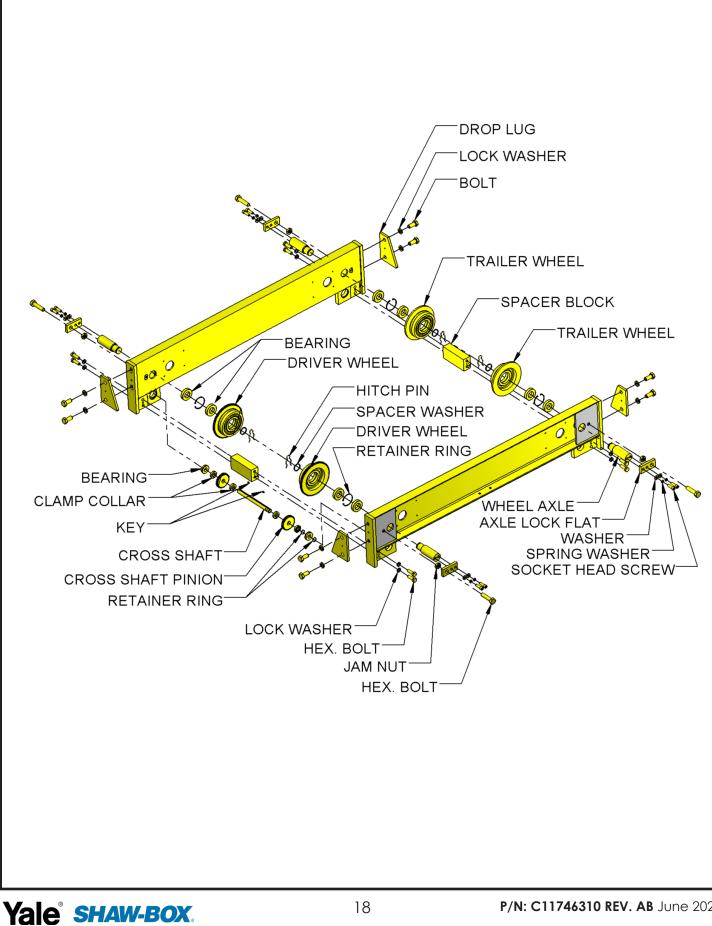


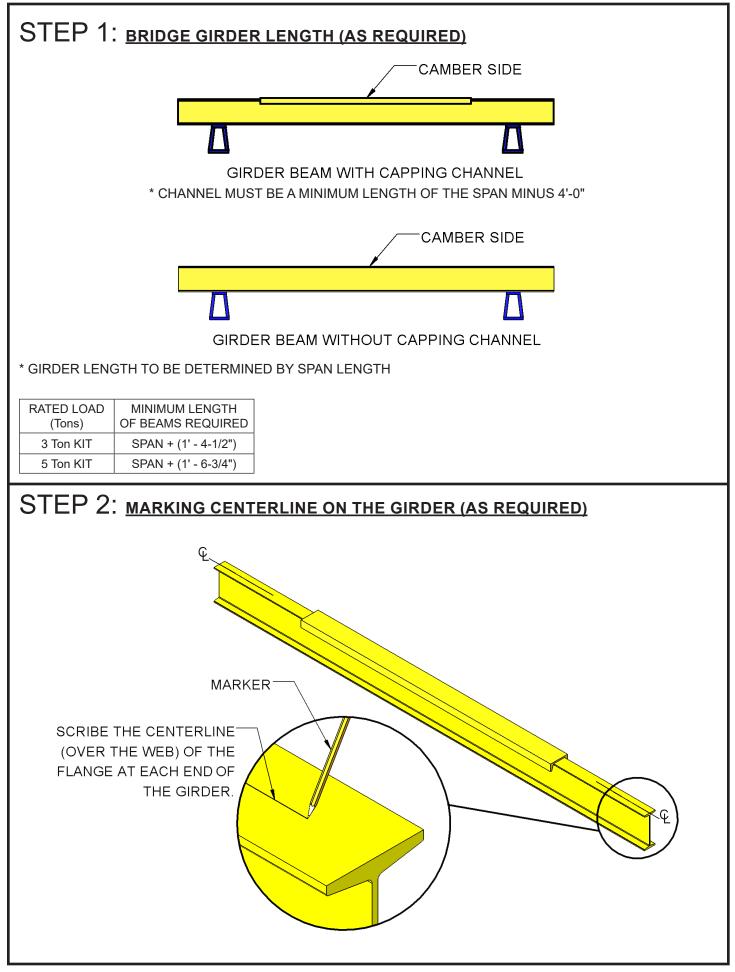


3.D) FORMED CHANNEL END TRUCK

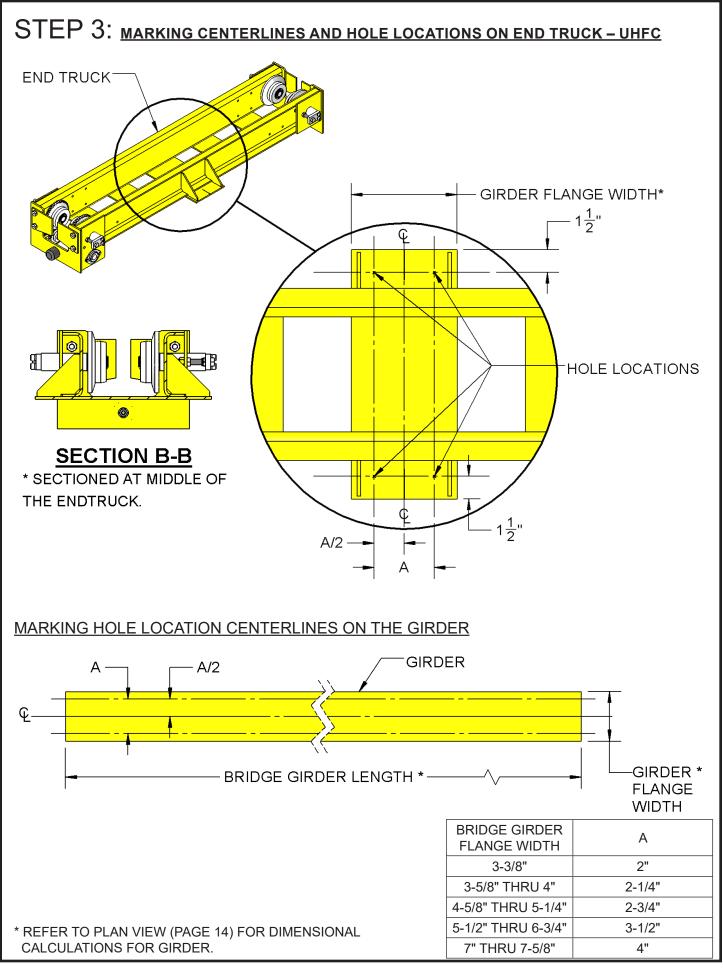


3.E) ROLLED CHANNEL END TRUCK



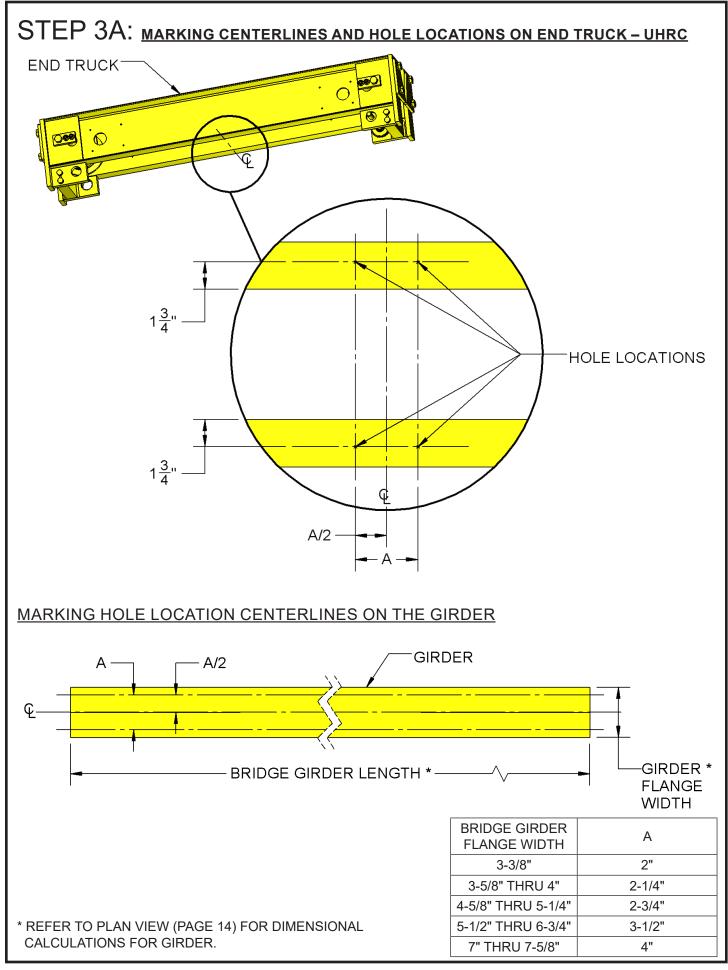


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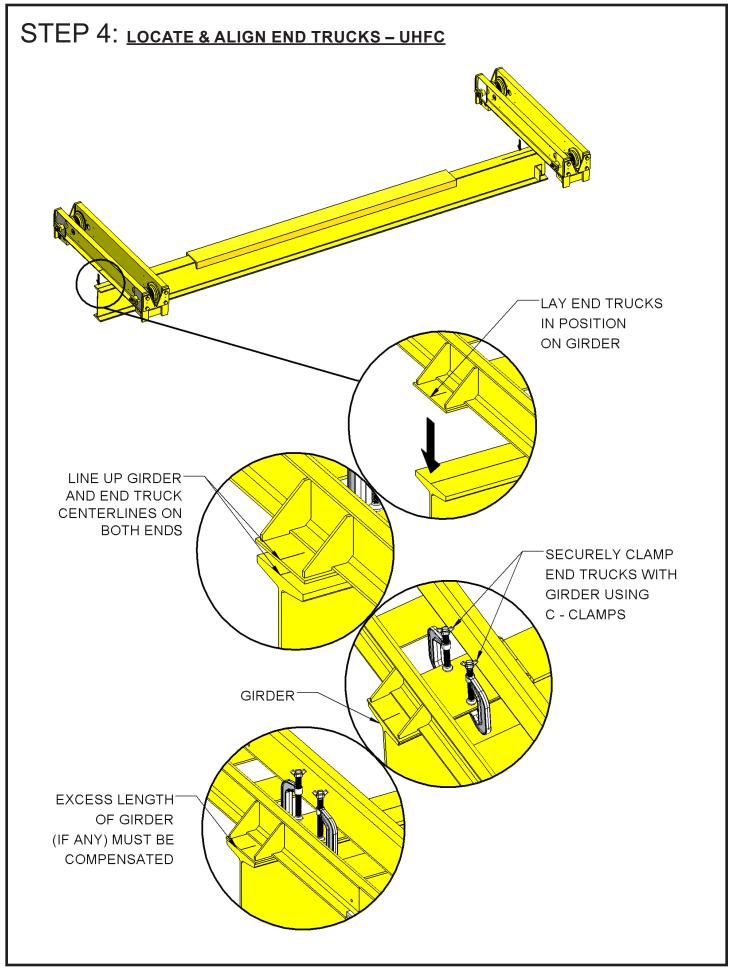


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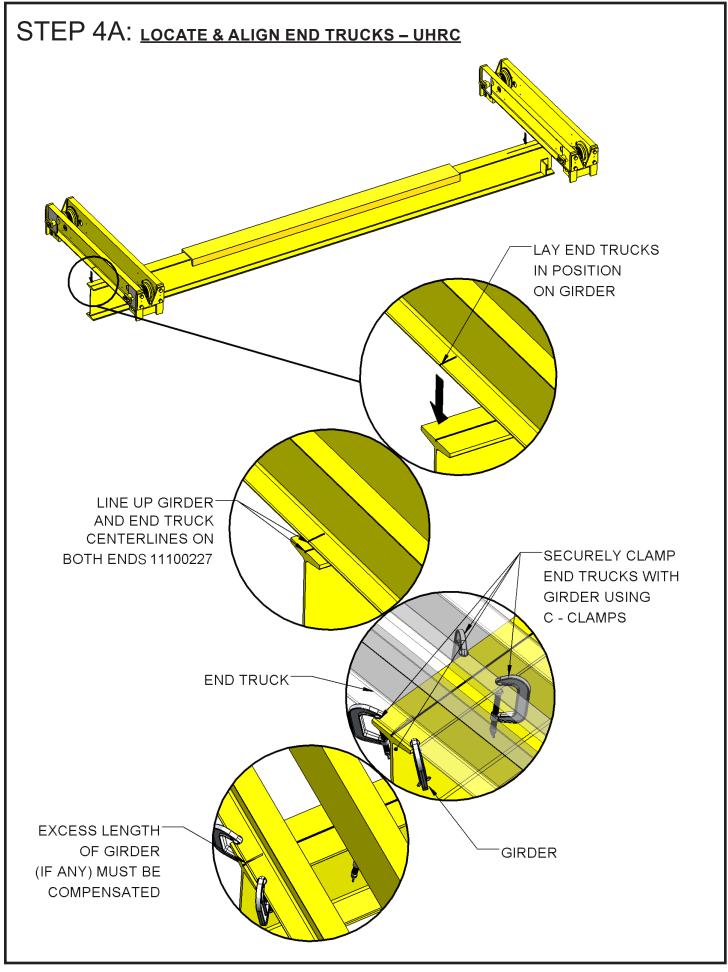
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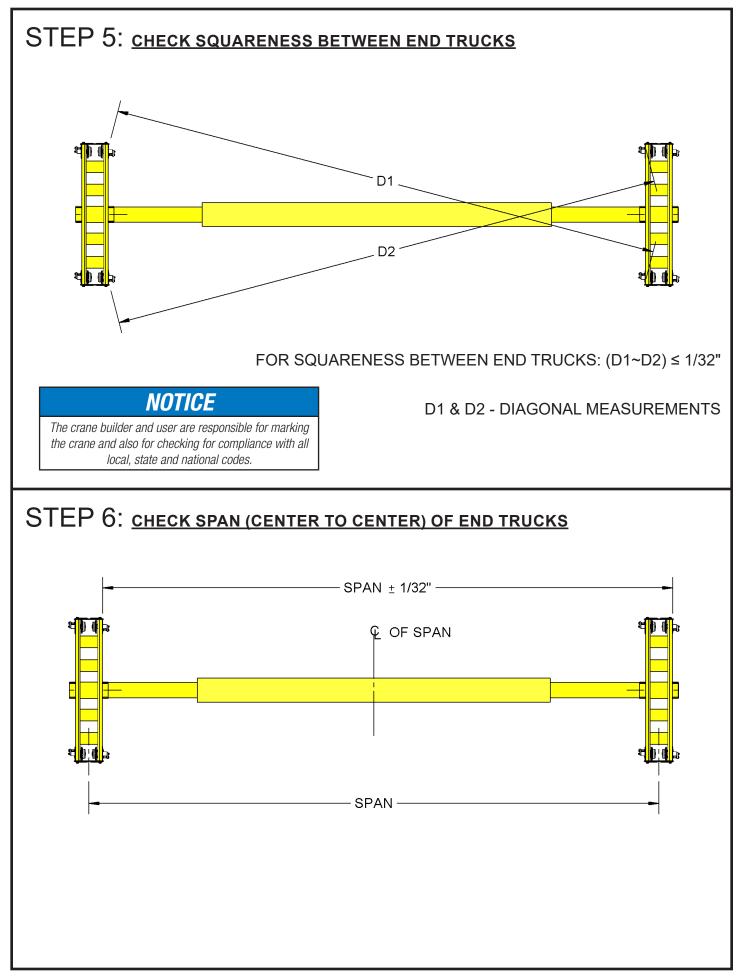


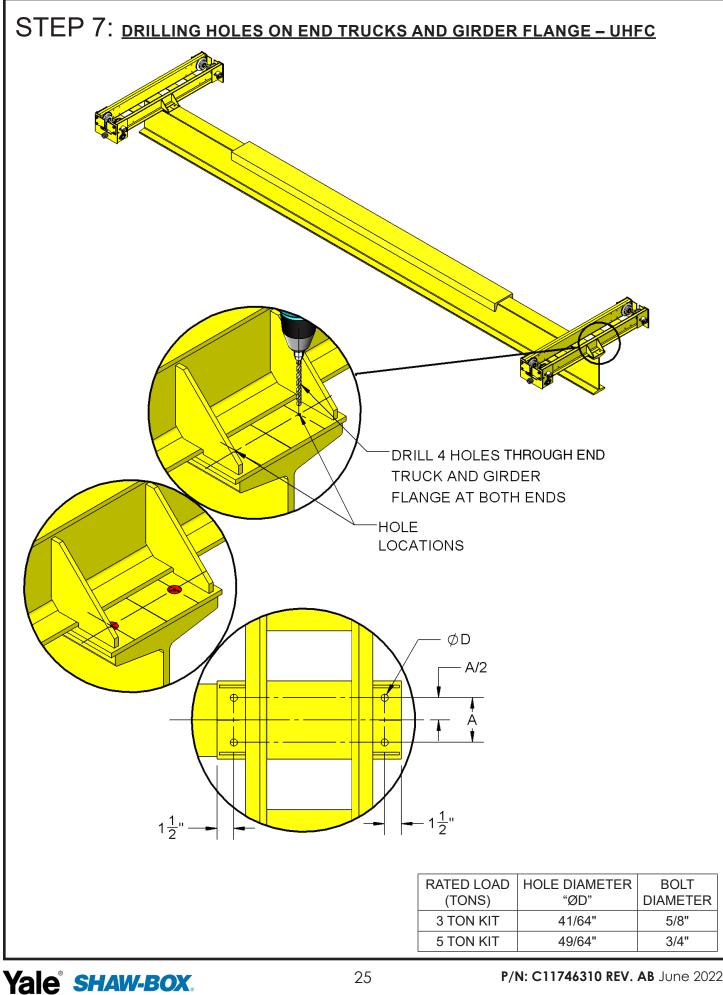
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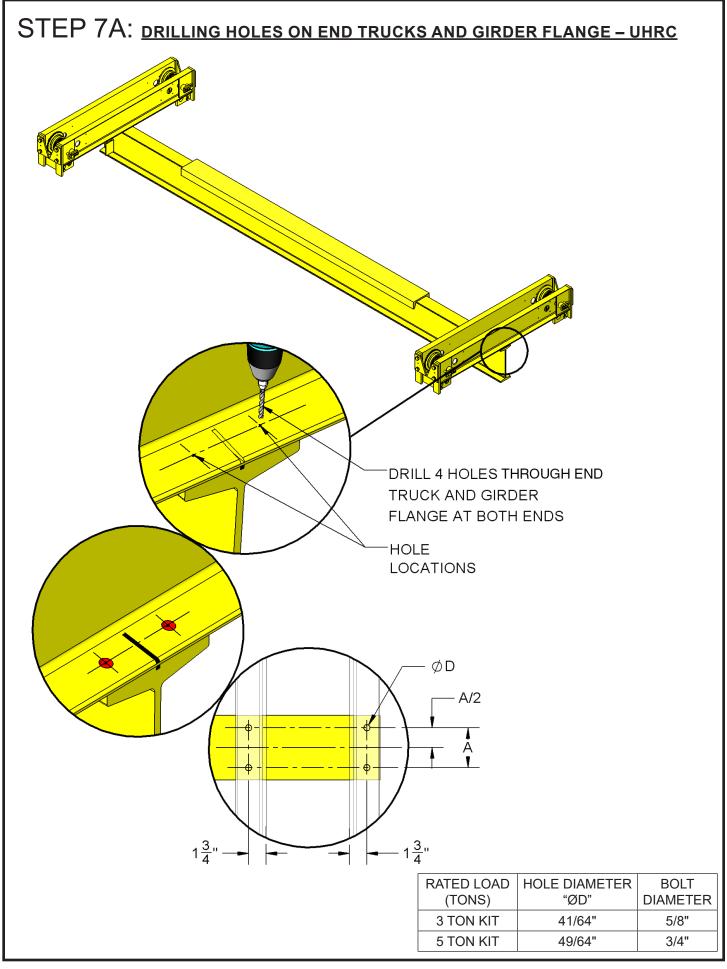
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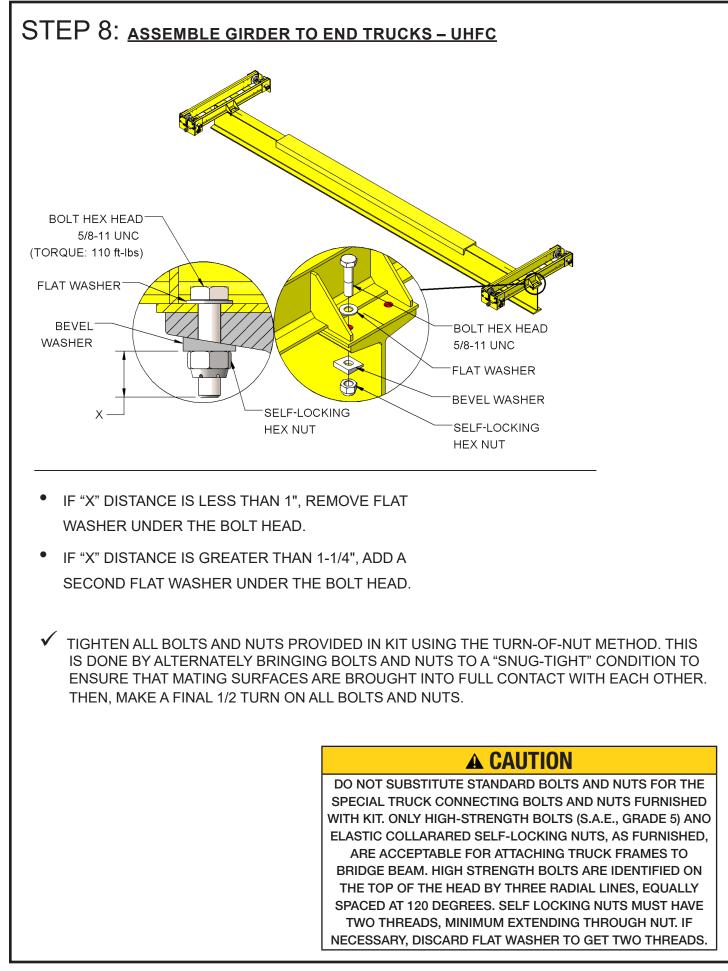


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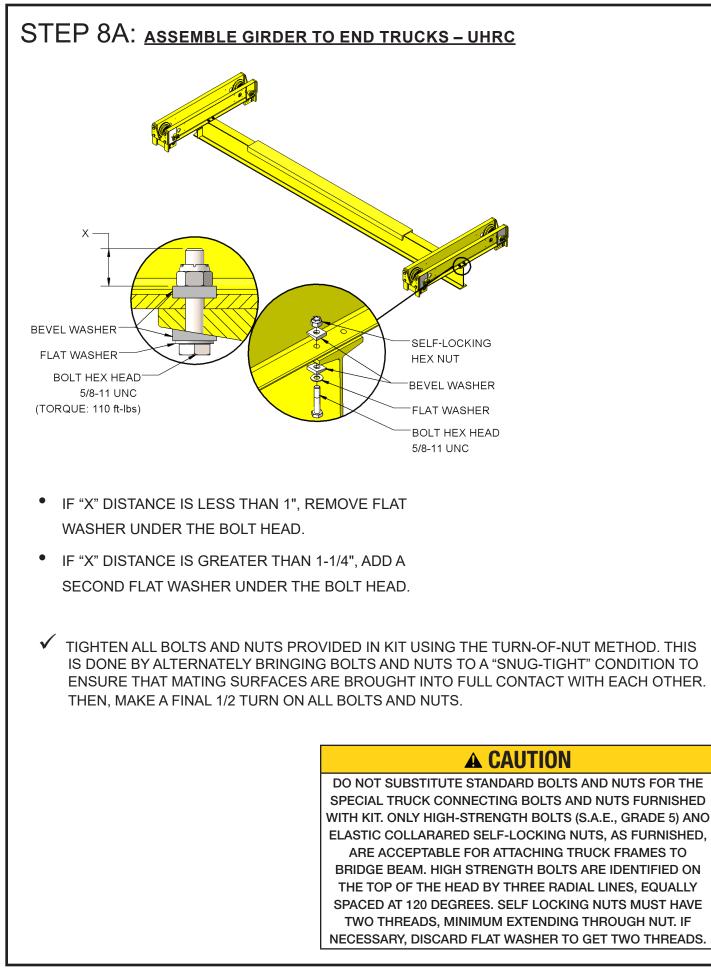


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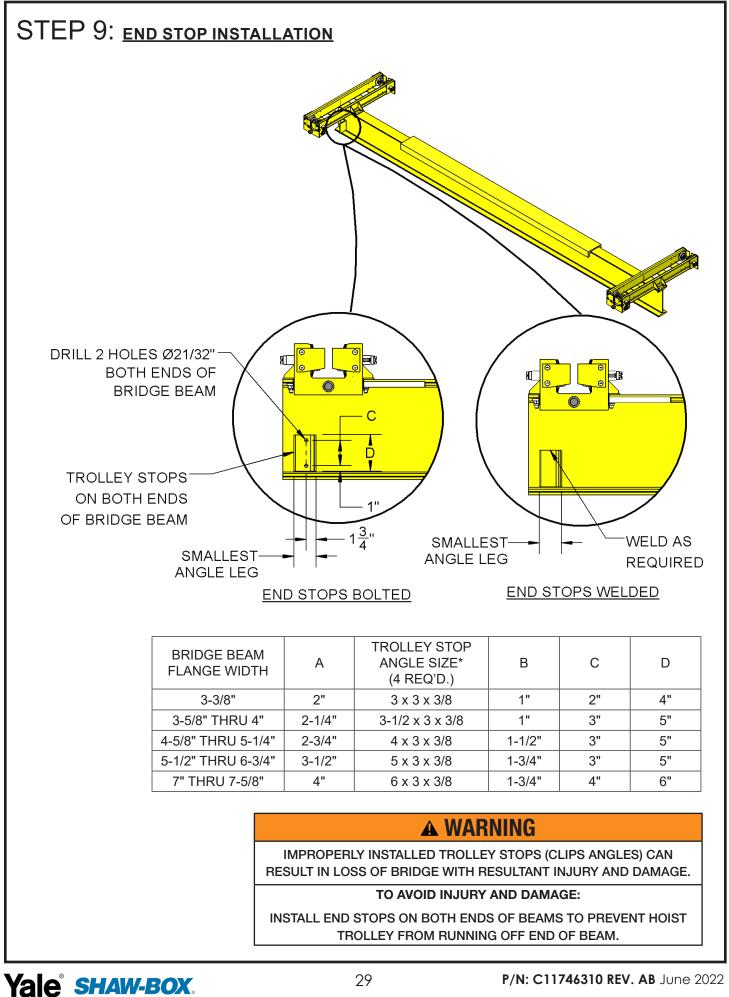
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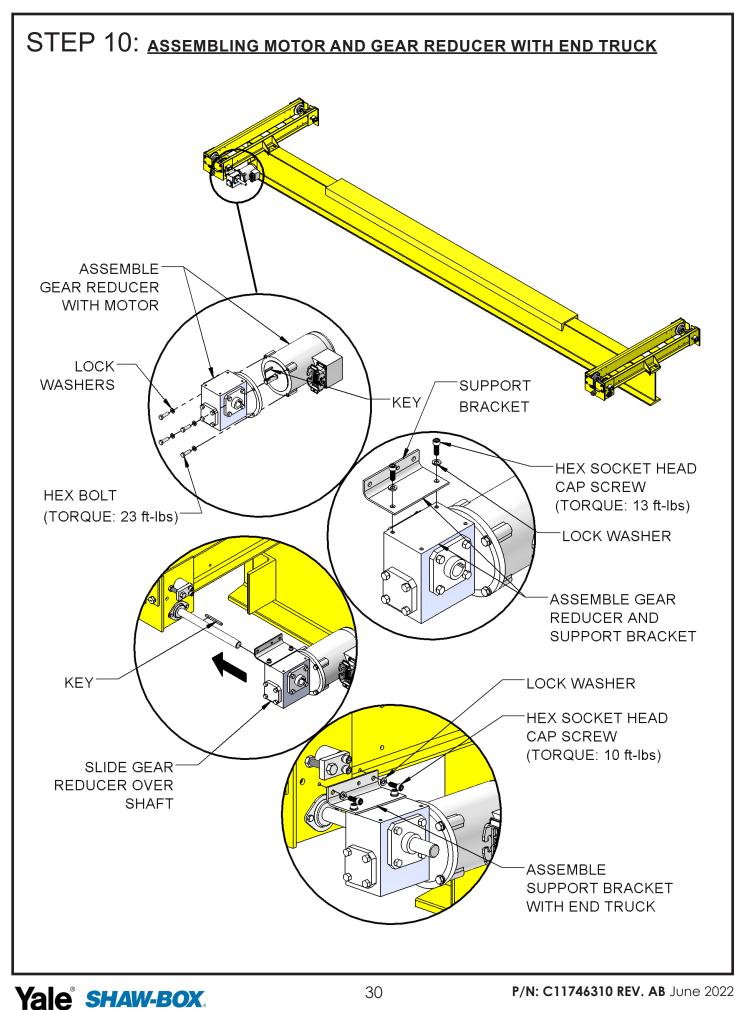


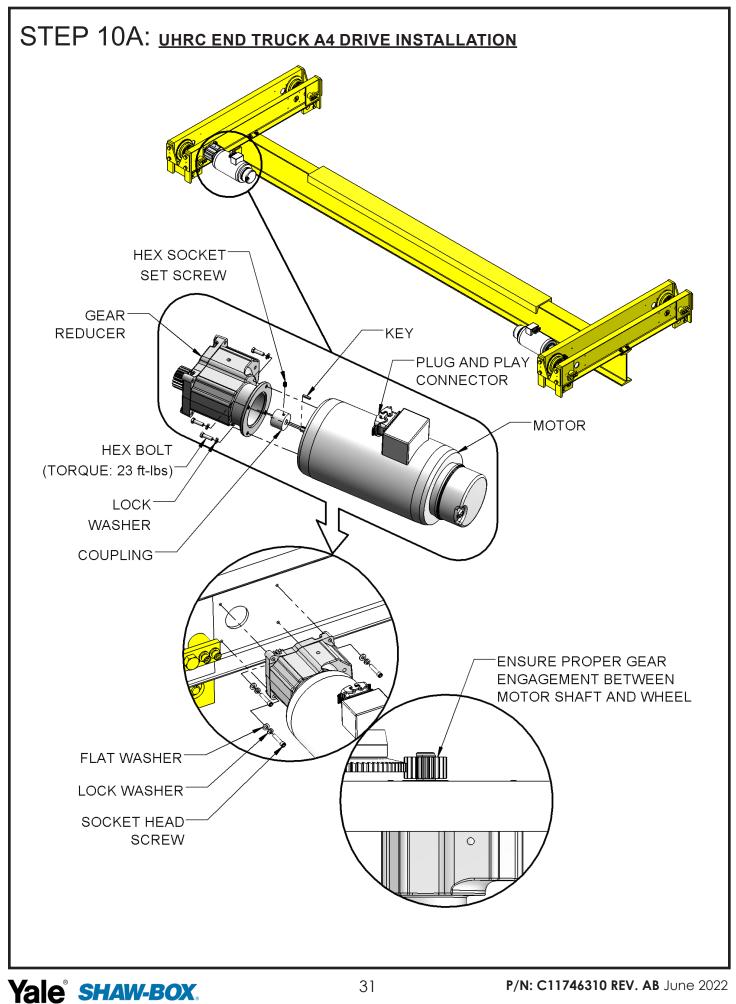
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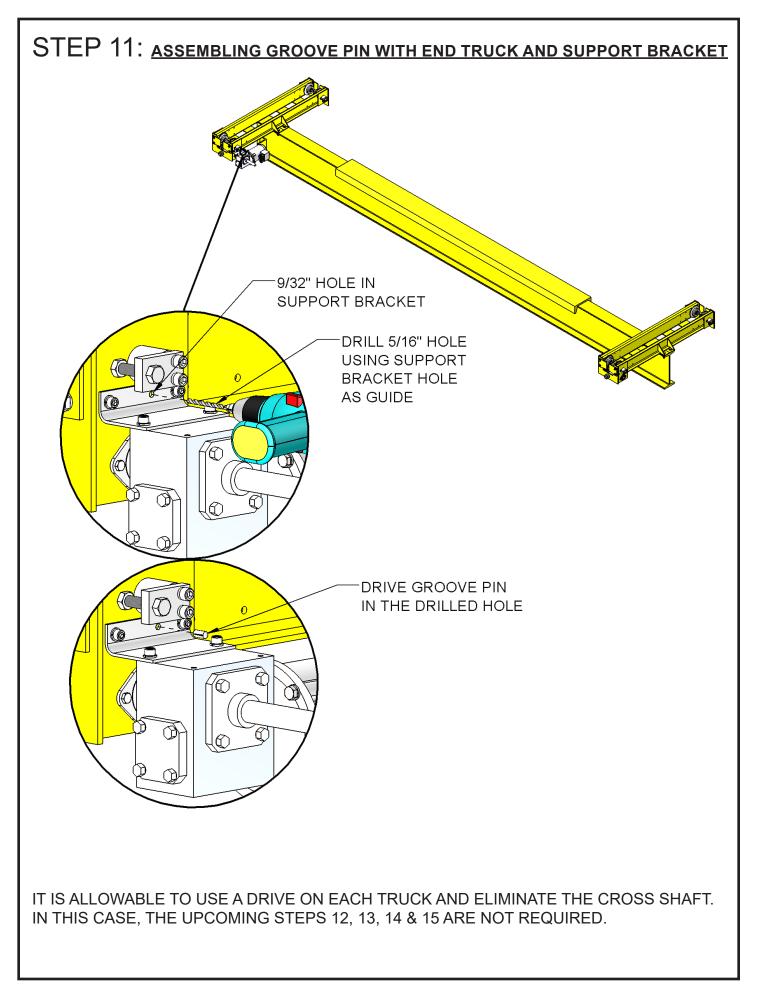


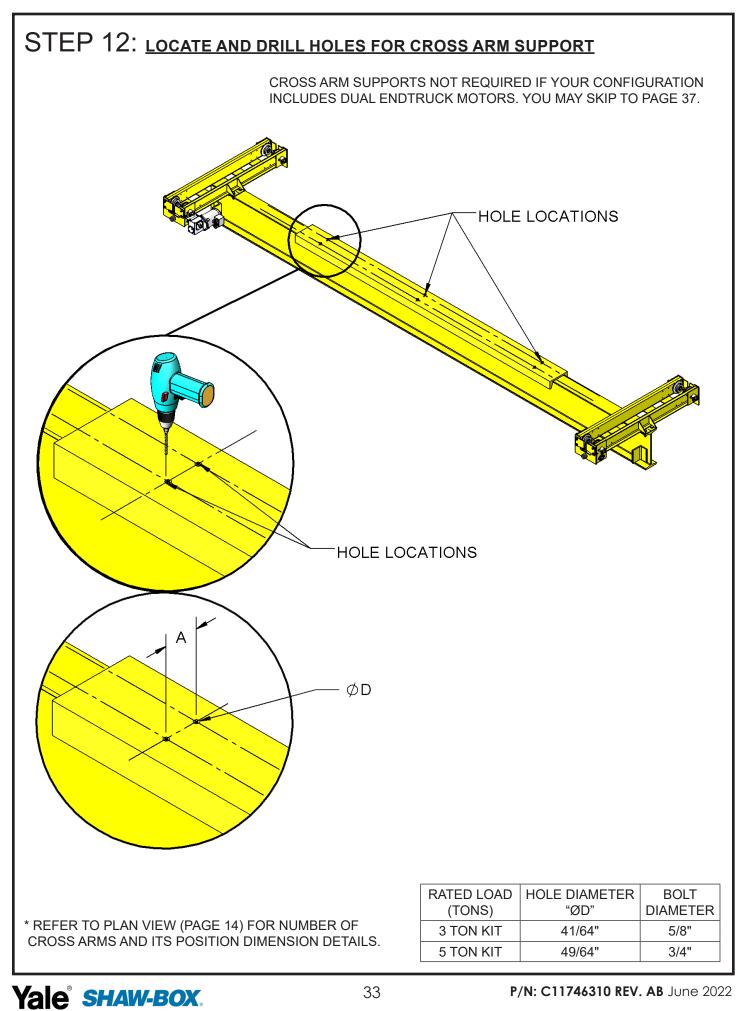
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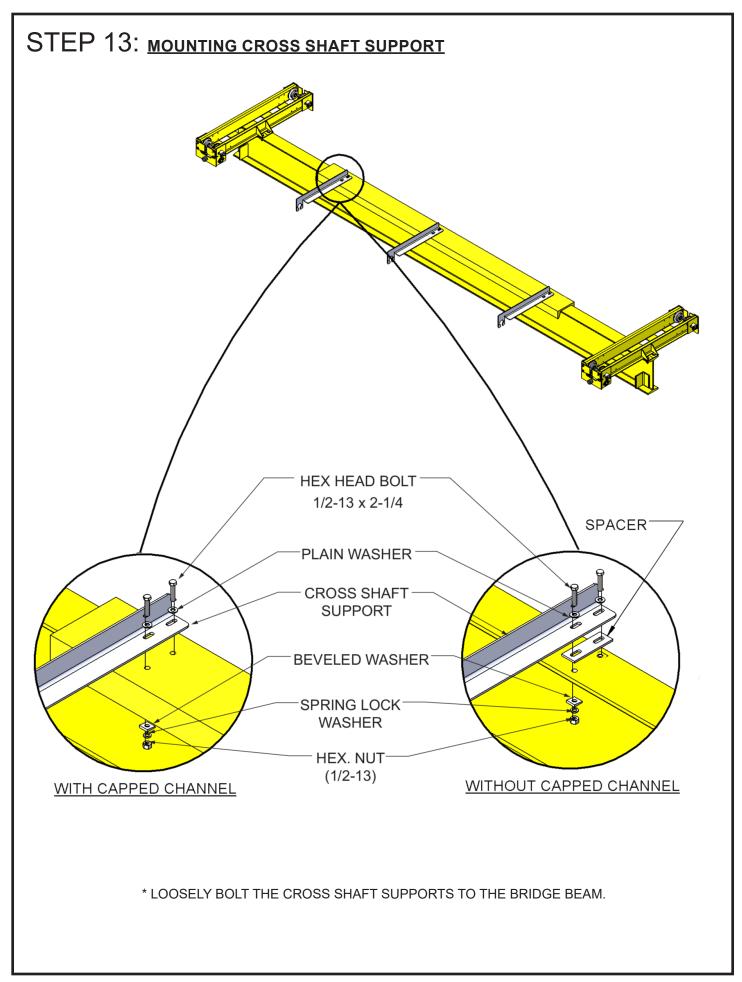


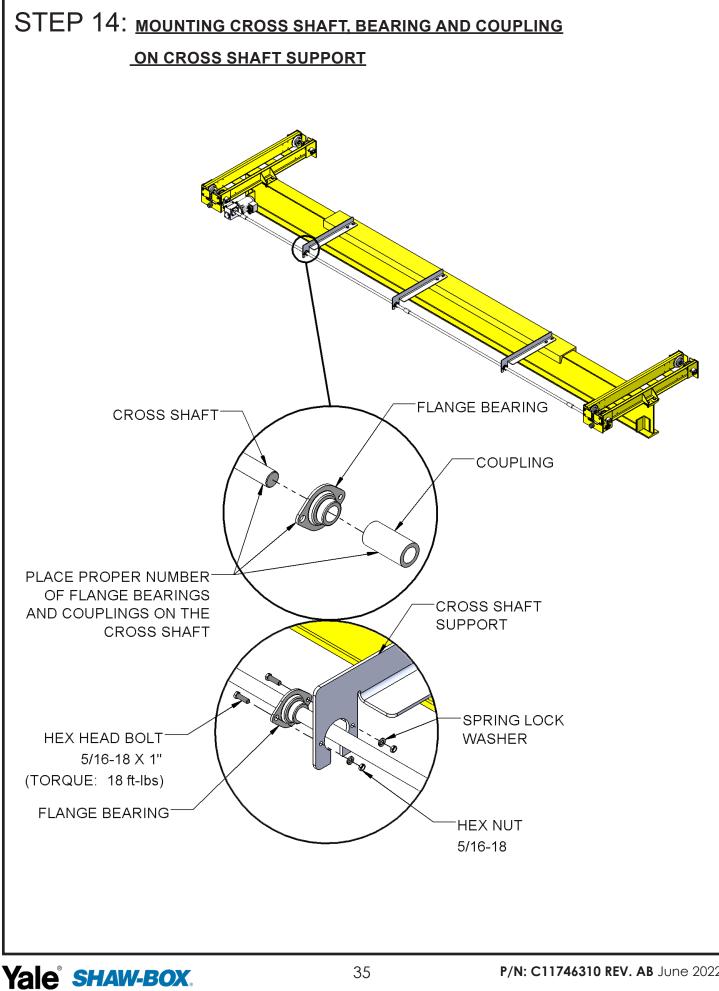


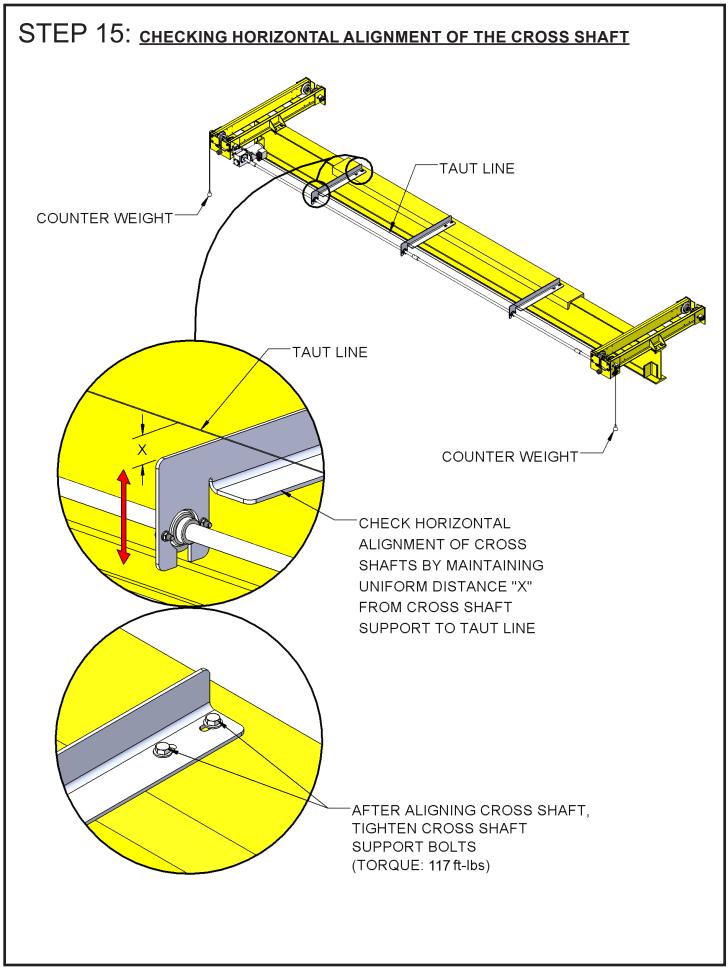


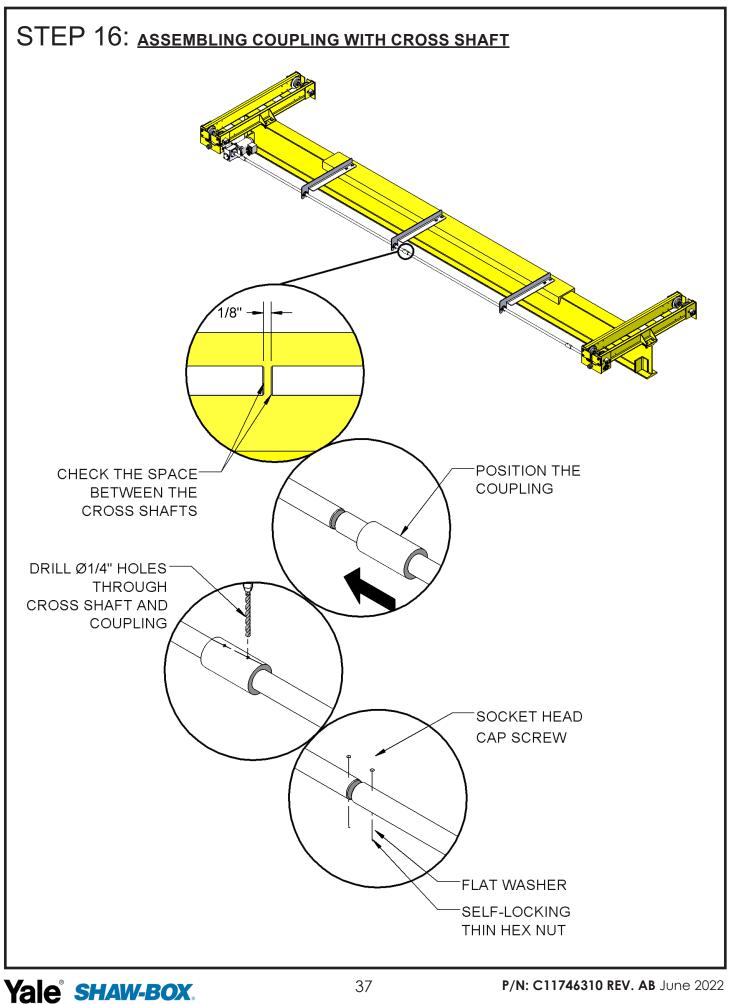


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CHAPTER 4 END STOP ASSEMBLY



4.A) END STOP ASSEMBLY

NOT FOR USE ON PATENTED TRACK, FLANGE WIDTHS LESS THAN 3 3/4", OR GREATER THAN 26"

CLAMPING BOLT TIGHTEN TO 207 FT-LB

P/N 33316505 (3 3/4" - 10" FLANGE WIDTH)
P/N 33316506 (10" - 22" FLANGE WIDTH)
P/N 33316508 (22" - 26" FLANGE WIDTH)

FLANGE

CLAMPING BOLT

ADJUSTMENT NUT-

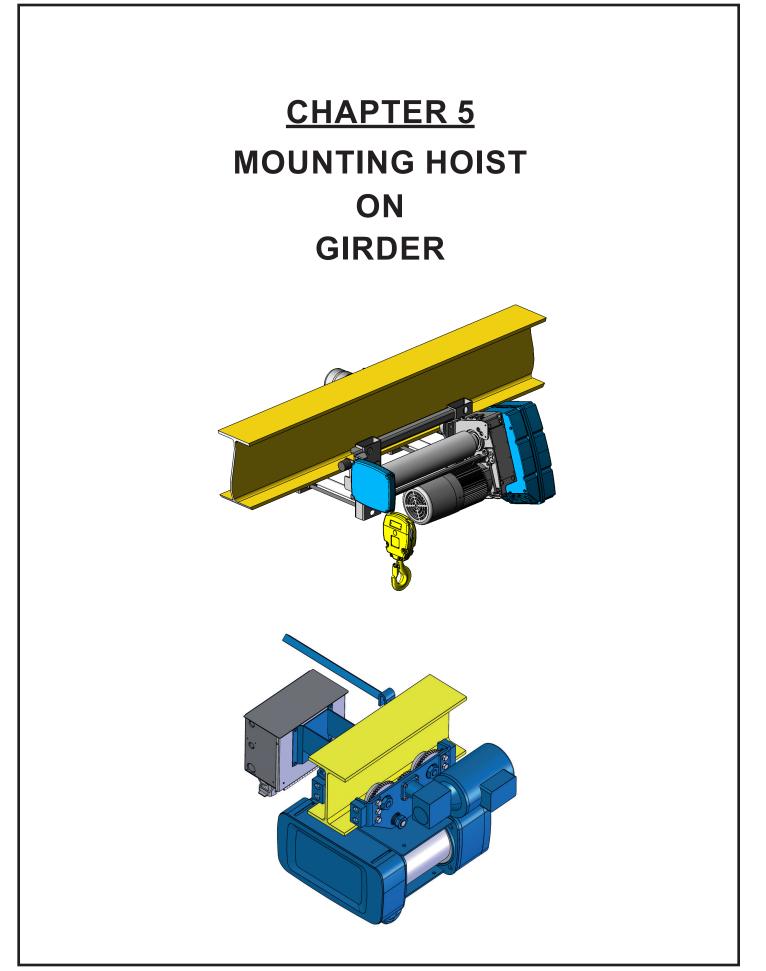
(POSITION TROLLEY STOPS TO DESIRED LOCATION DEPENDING ON APPLICATION)

TIGHTEN TO 48 FT-LB

A WARNING

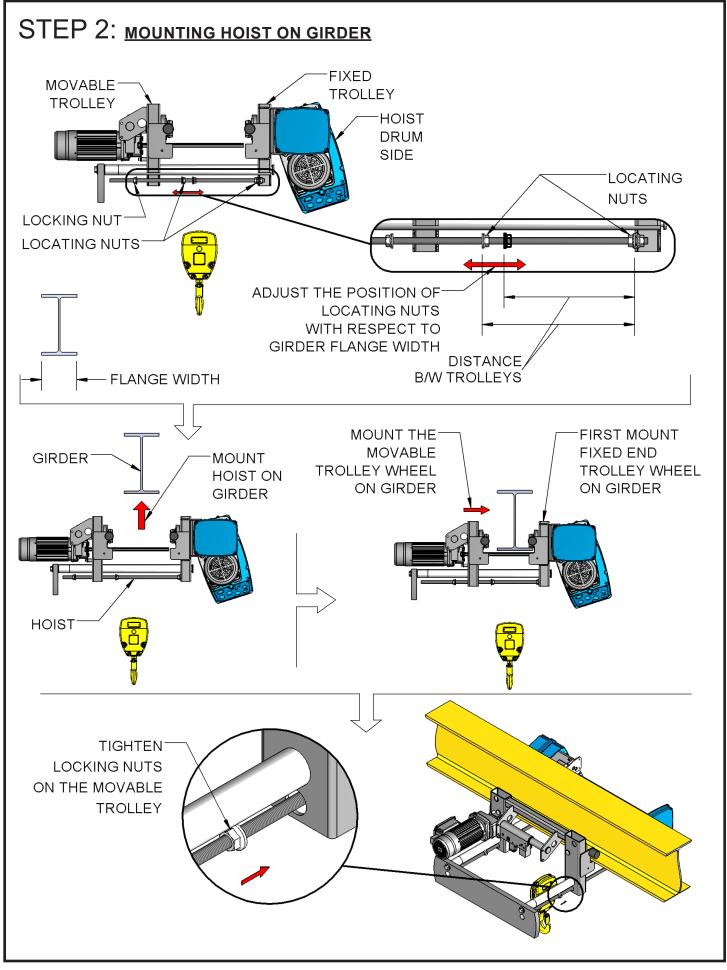
Trolley stops (clip angles) or end stop assemblies must be installed on both ends of the bridge beam to prevent hoist trolley from running off the end of the beam, which could result in injury to the operator and others and damage to the load and other property.

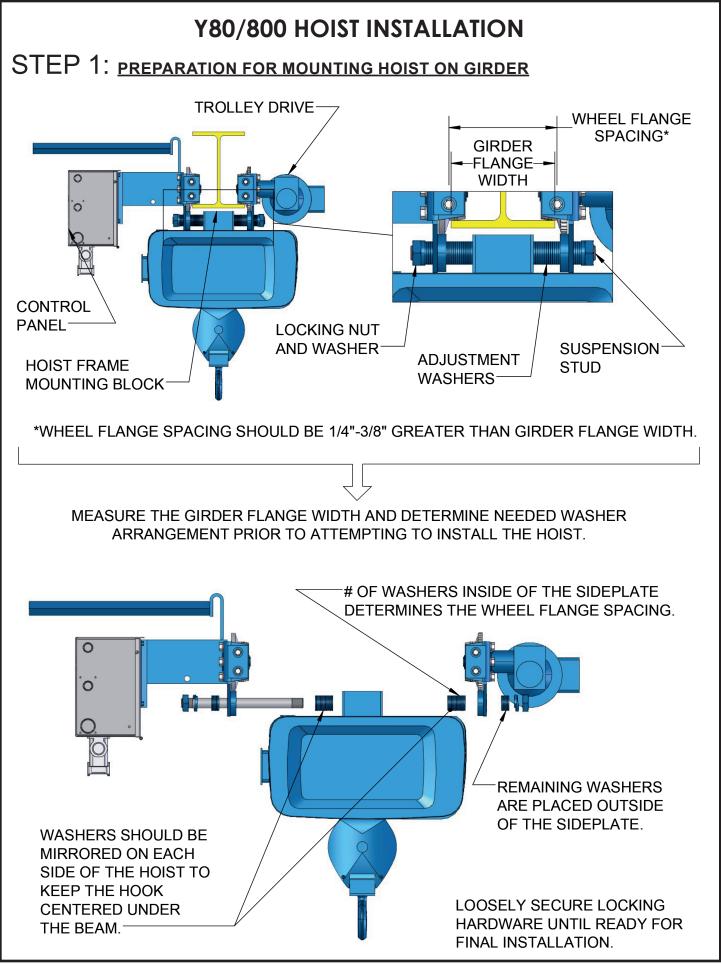
Yale SHAW-BOX.



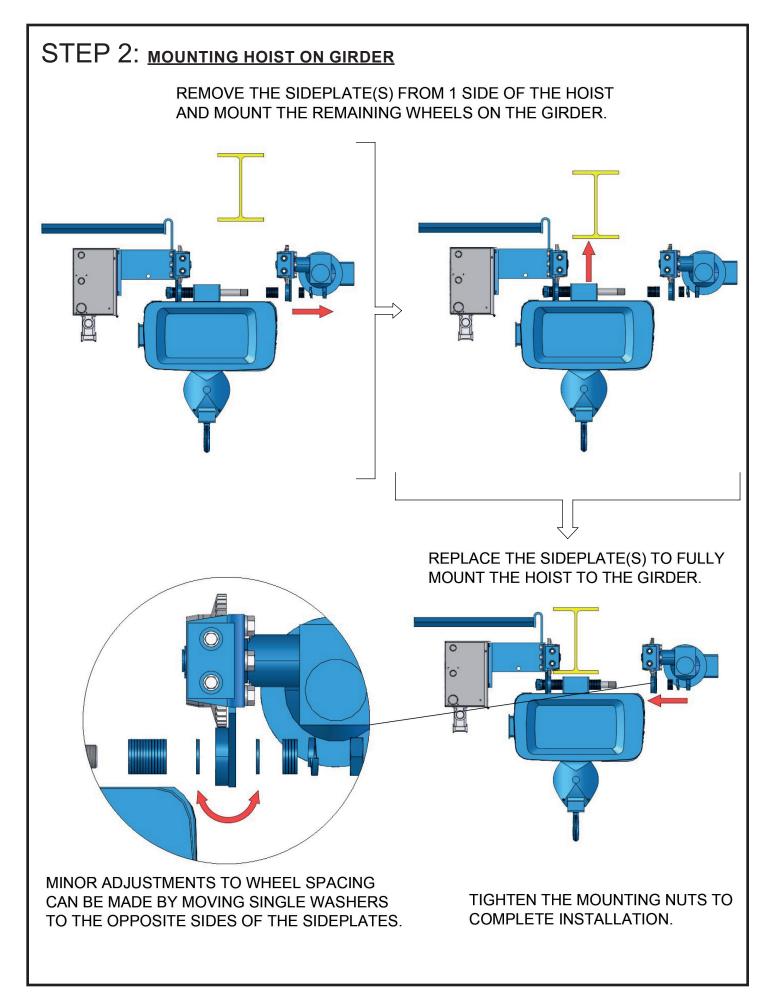
YK/SK HOIST INSTALLATION STEP 1: PREPARATION FOR MOUNTING HOIST ON GIRDER **A** CAUTION FIXED Prior to installing the hoist, check for any MOVABLE⁻ TROLLEY damage to the hoist during shipment. TROLLEY DO NOT install a damaged hoist. HOIST DRUM SIDE COUNTER WEIGHT LOCATING NUTS⁻ FLANGE WIDTH HOOK DISTANCE LOCKING NUTS **B/W TROLLEYS** CAREFULLY MOVE THE MOVABLE TROLLEY AND MOTOR AWAY FROM FIXED LOOSEN LOCKING TROLLEY NUTS ON THE MOVABLE TROLLEY

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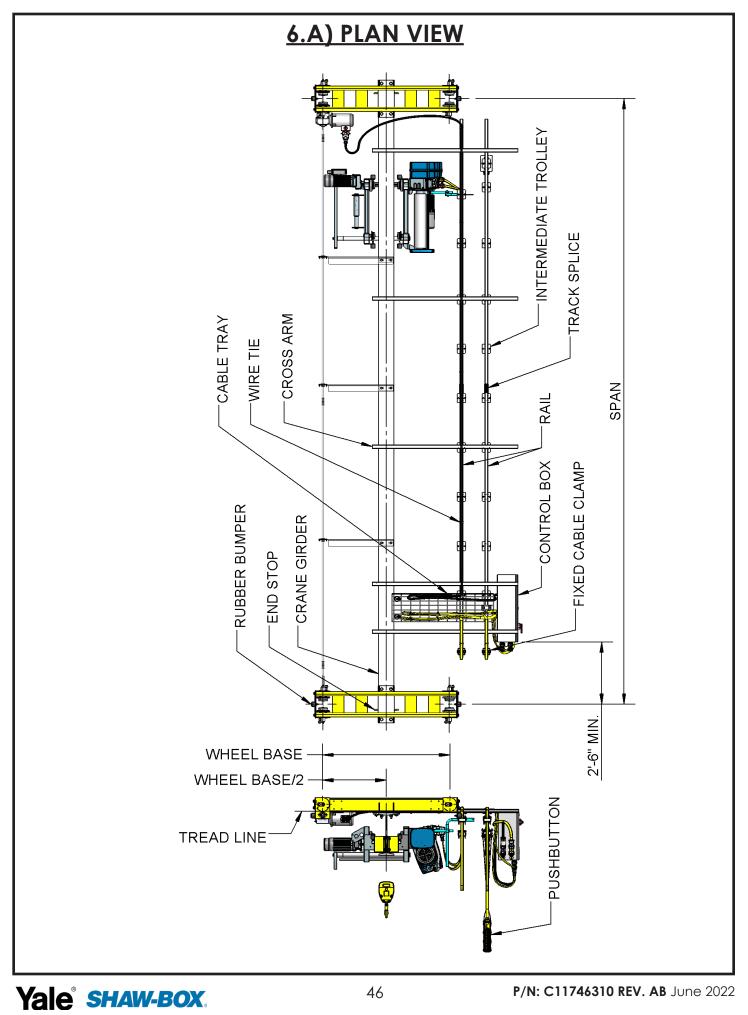


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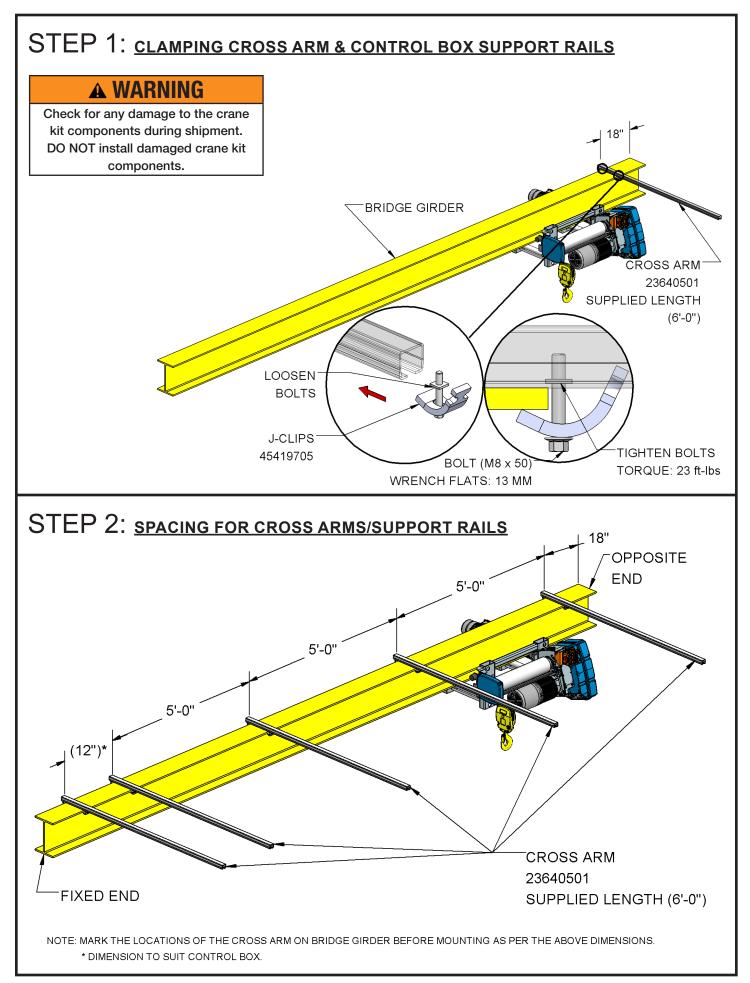


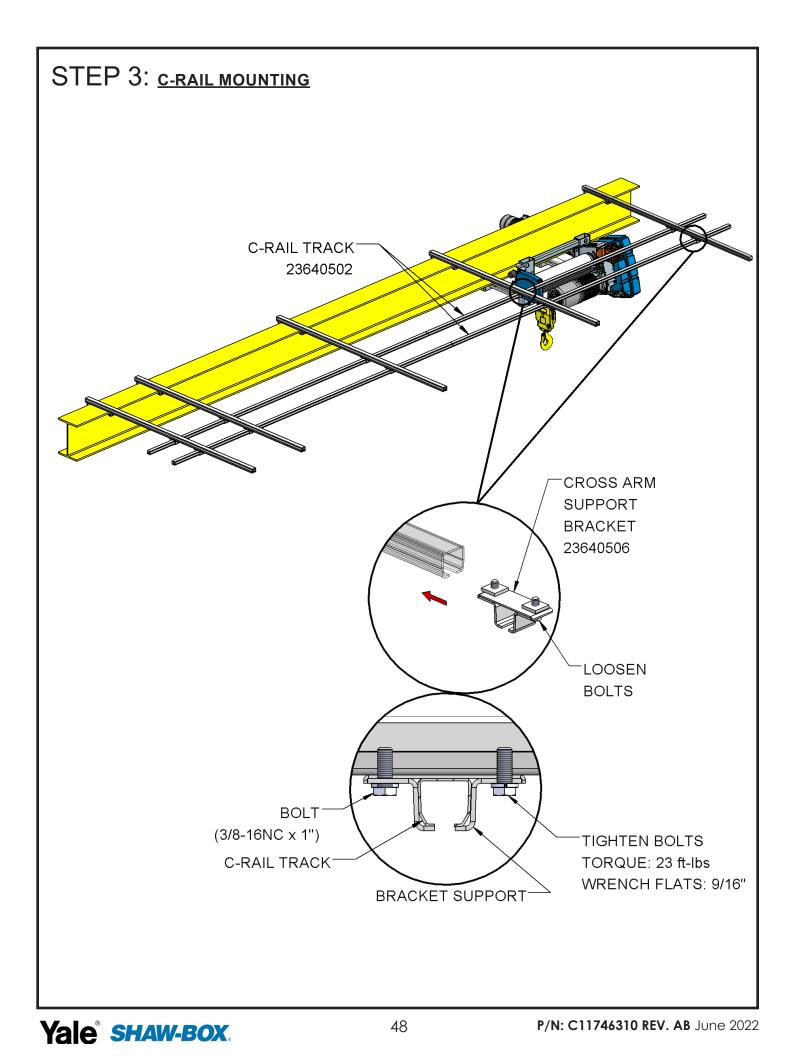
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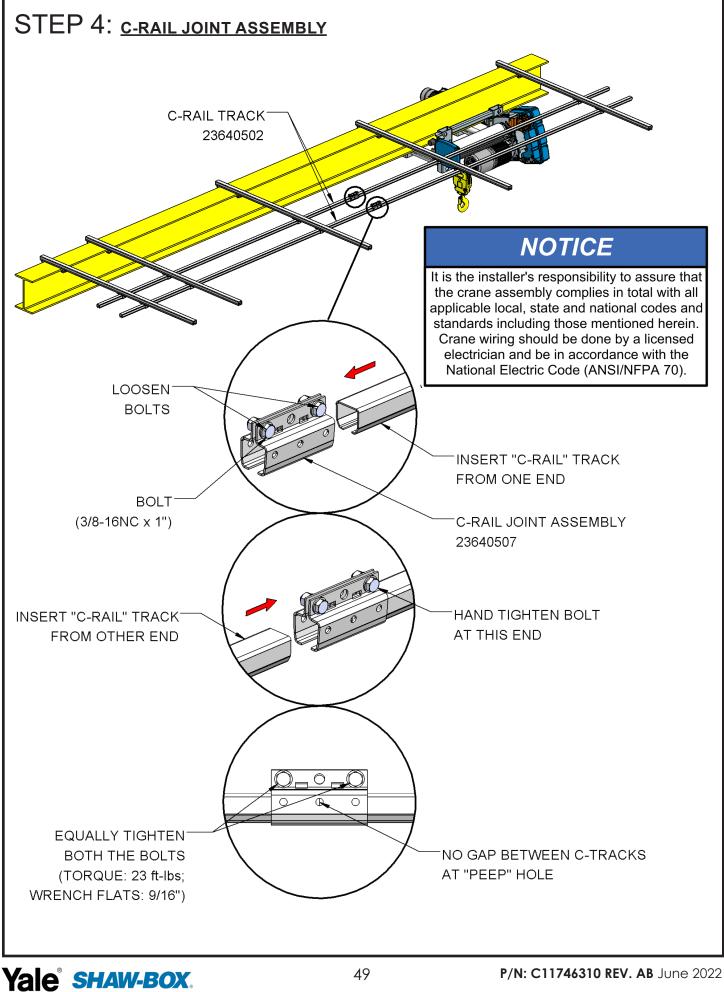




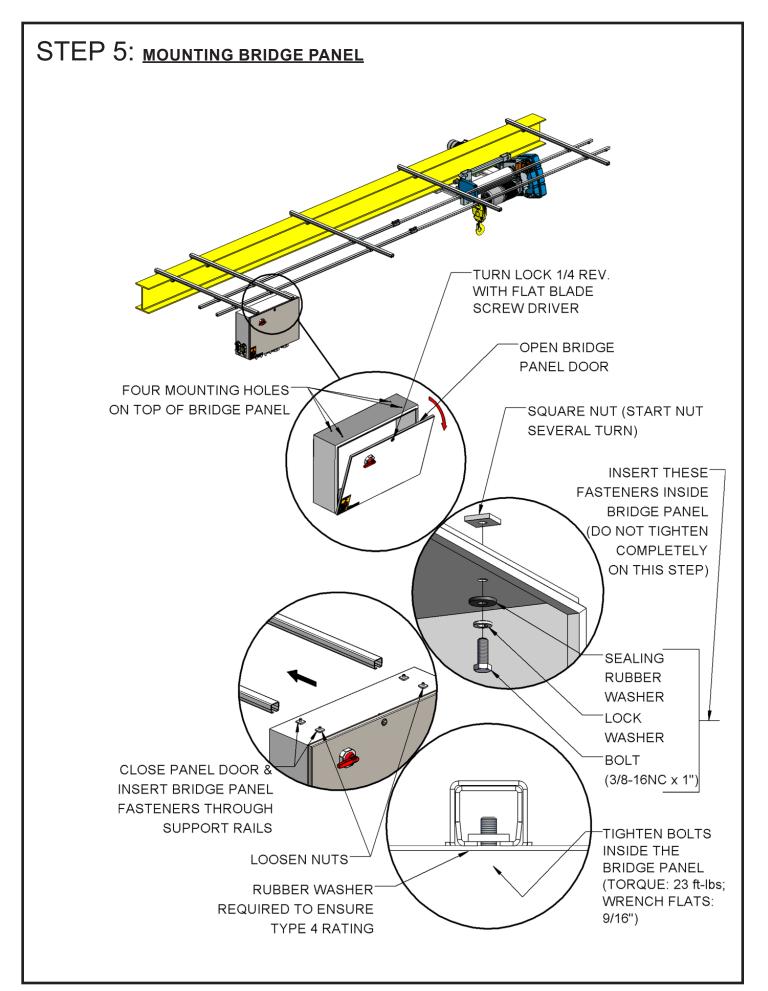
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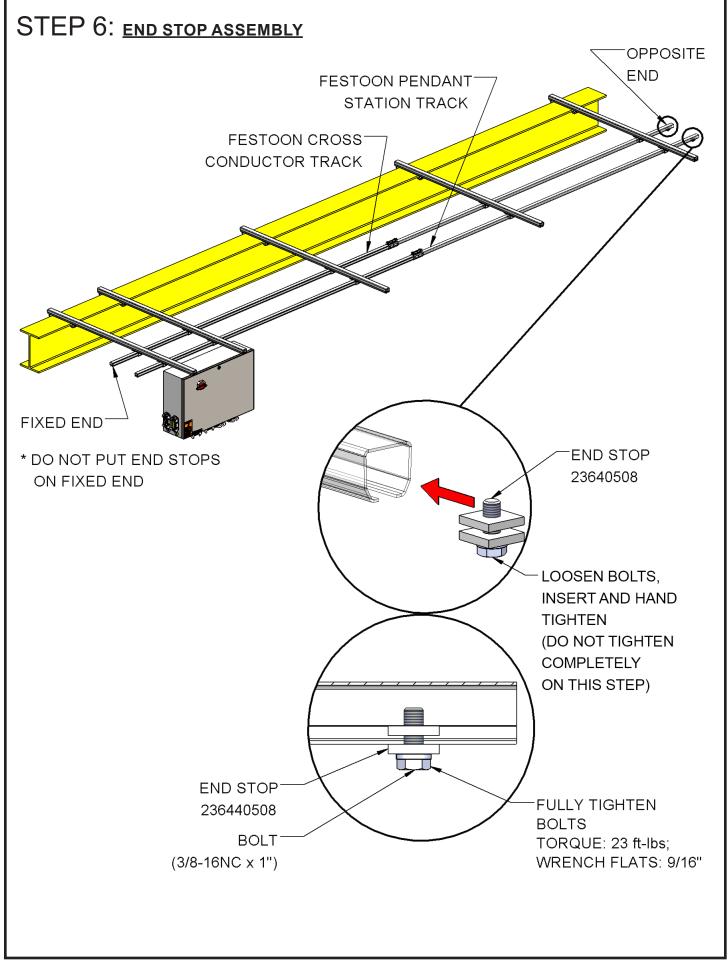


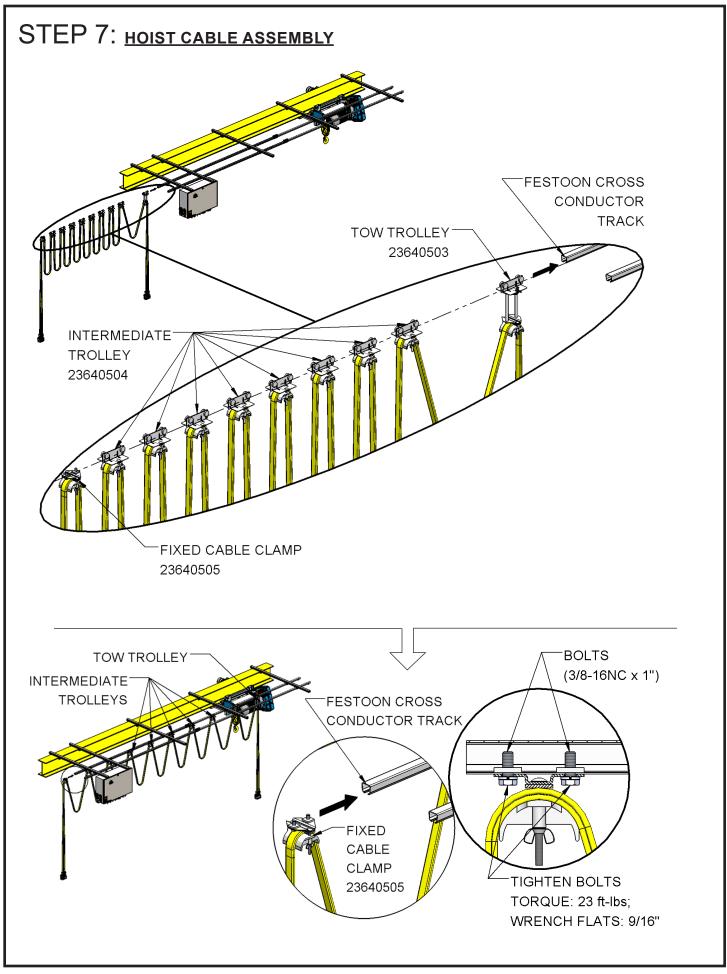


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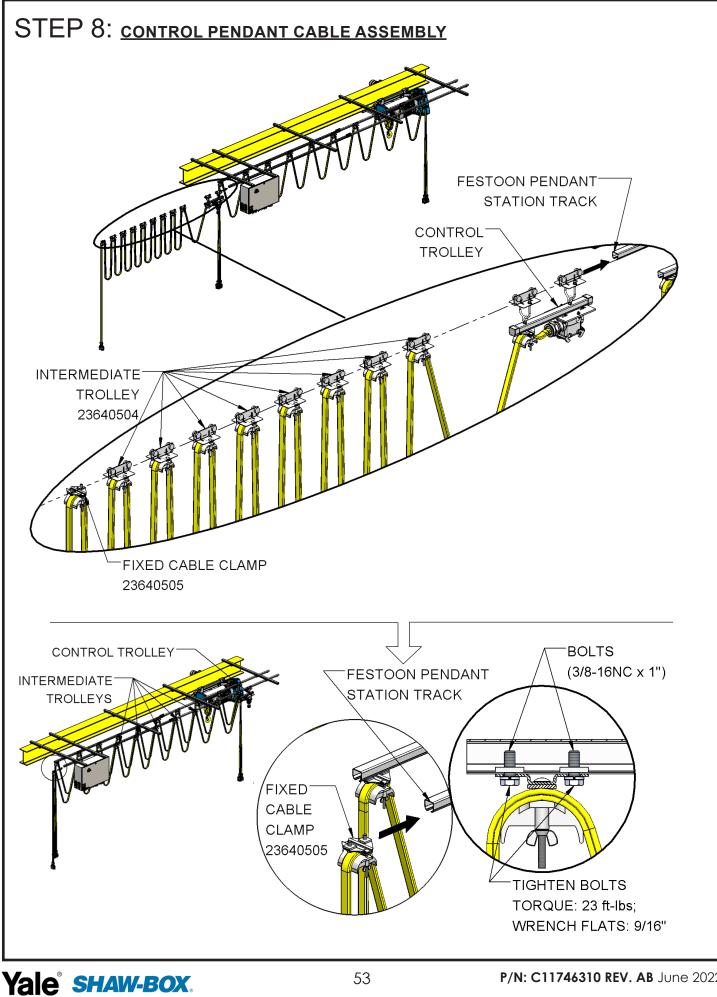


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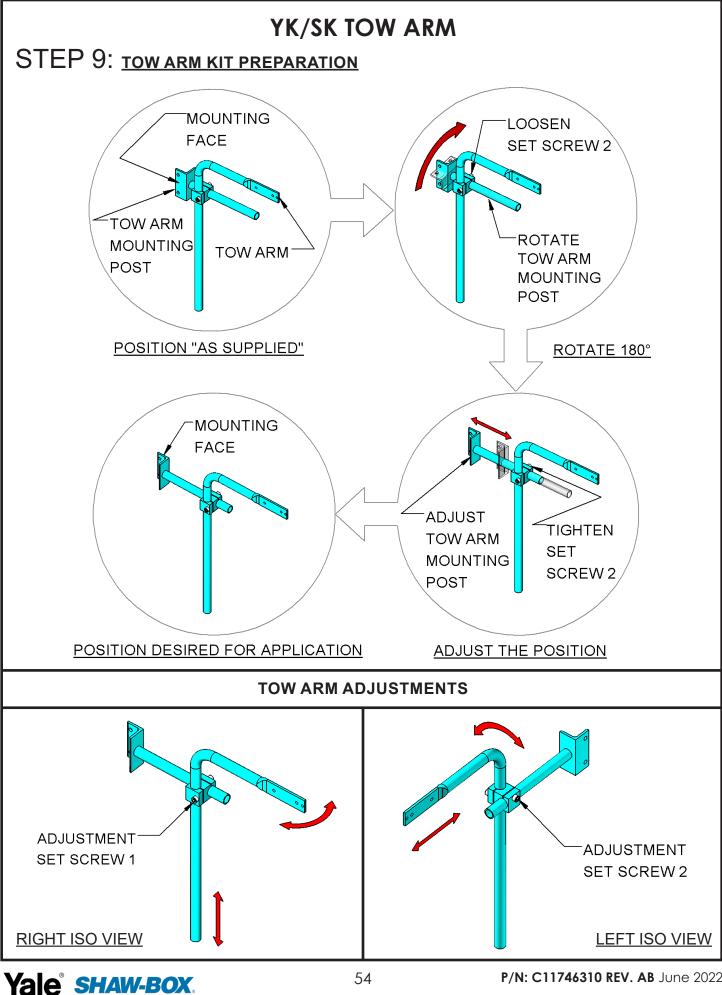


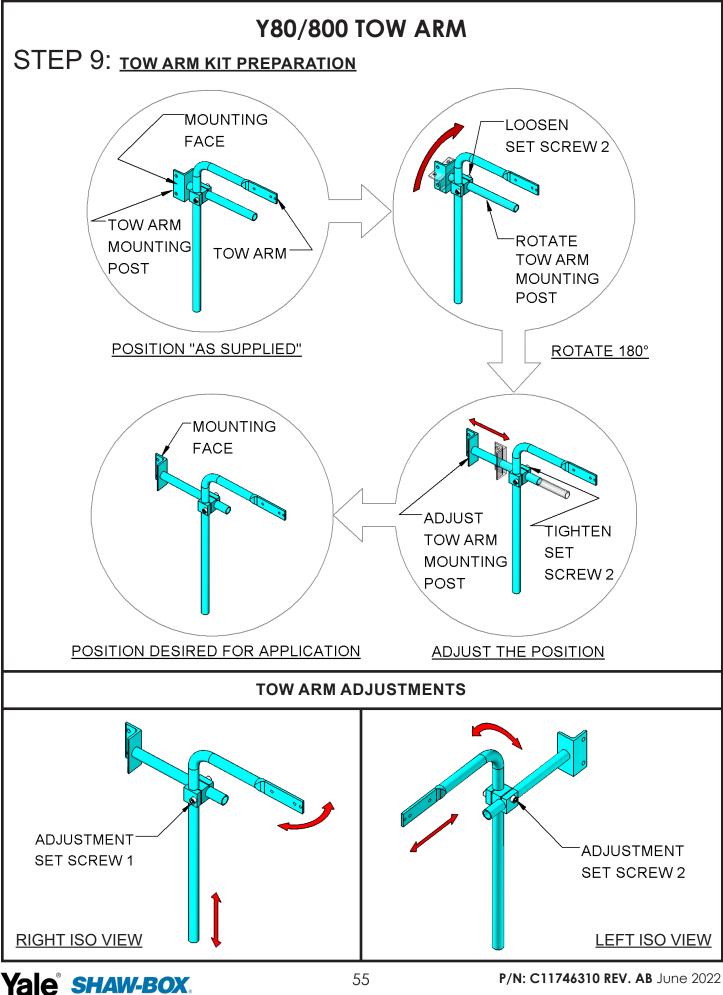


Yale SHAW-BOX



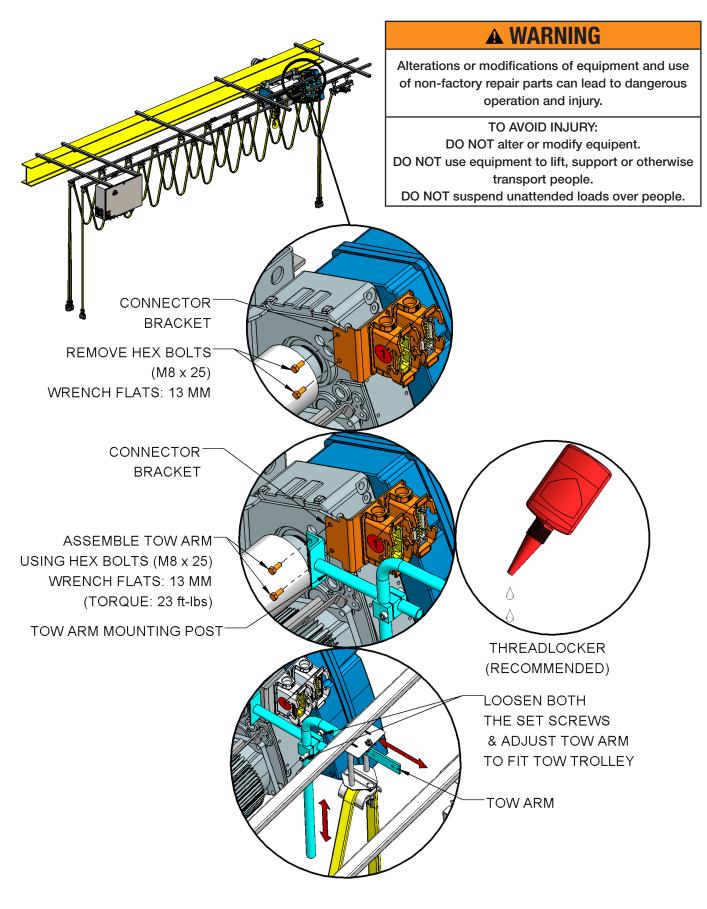
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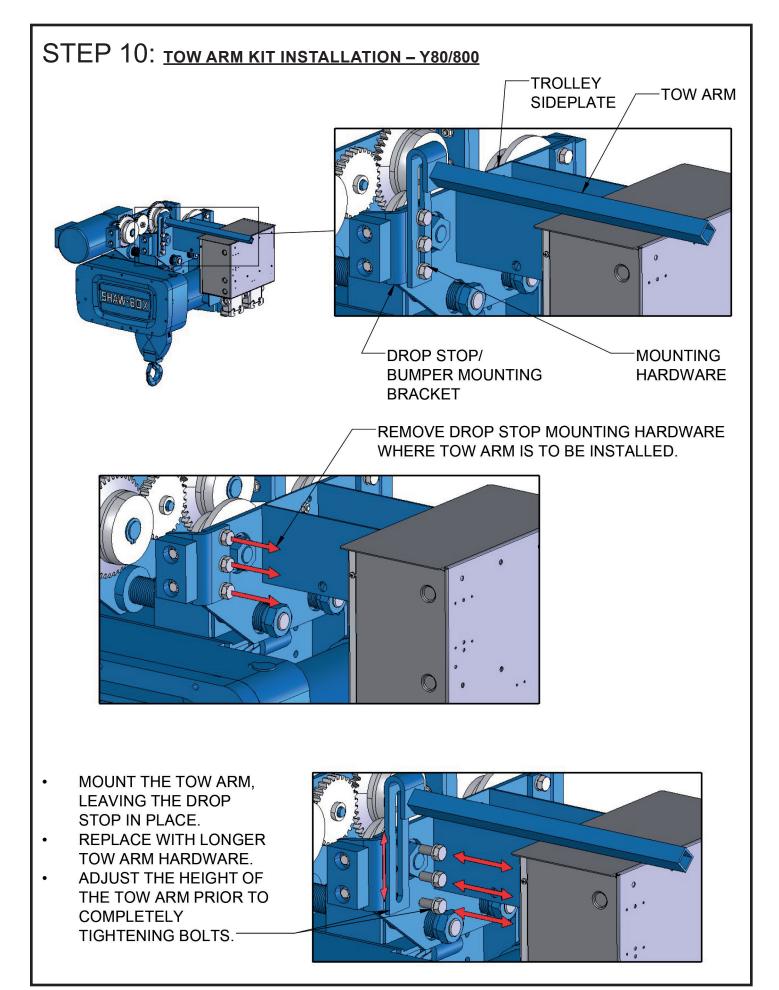


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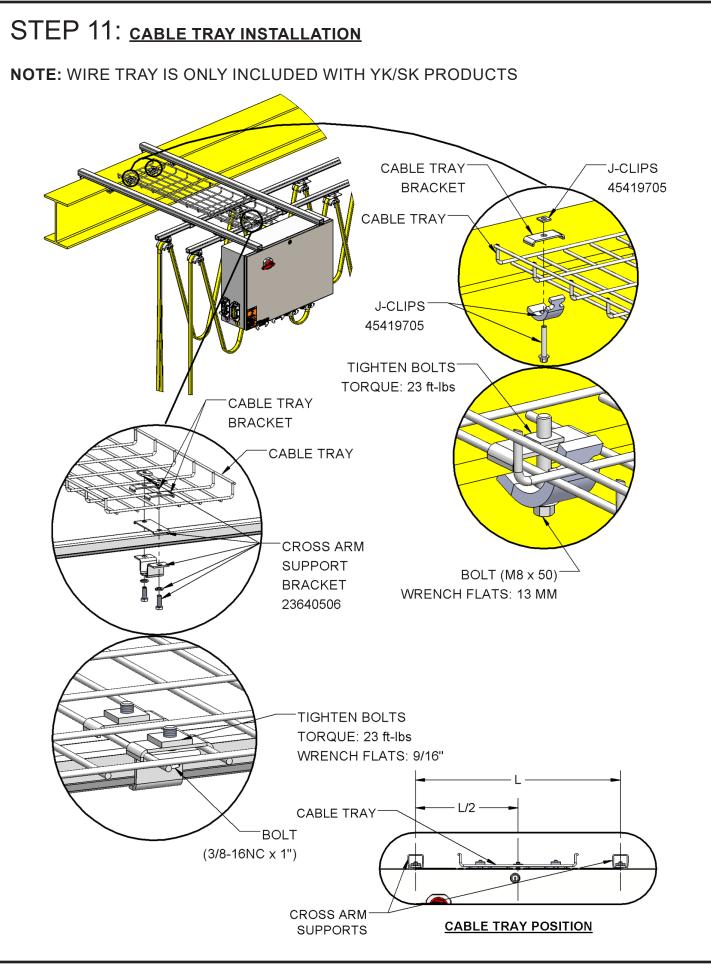
STEP 10: TOW ARM KIT INSTALLATION - YK/SK

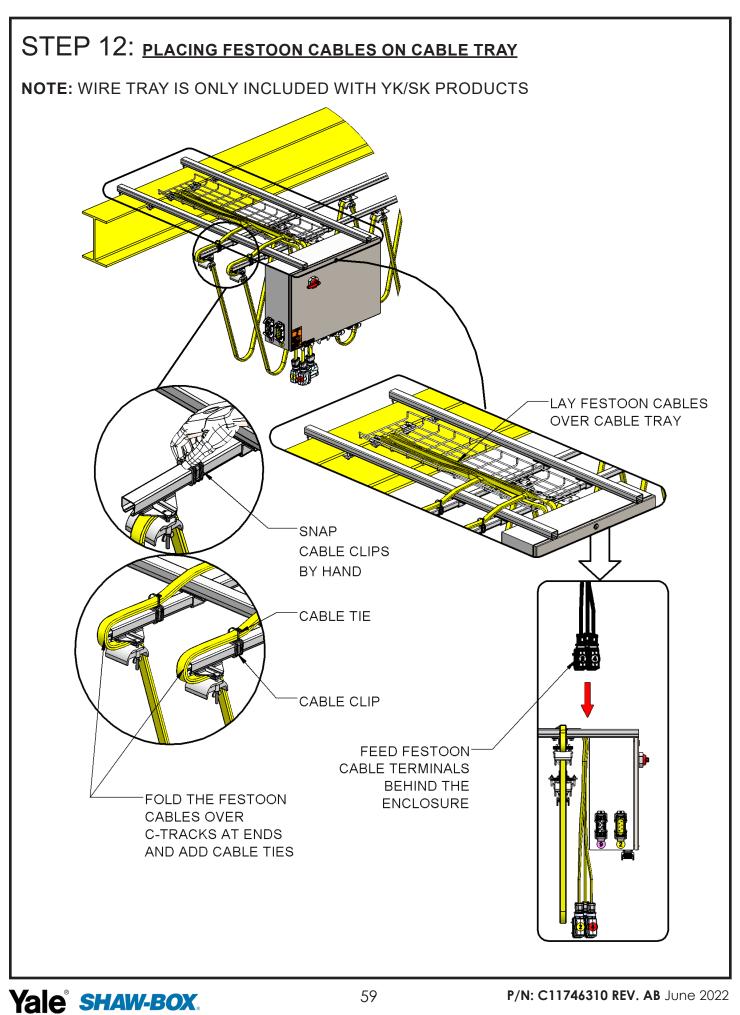


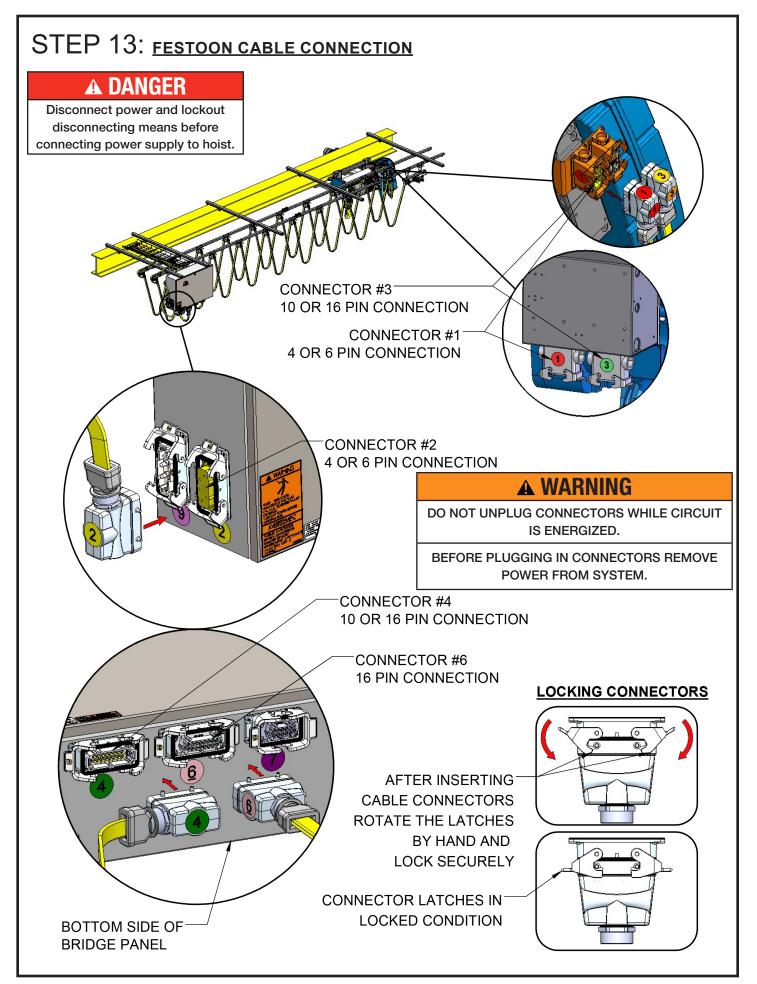
Yale SHAW-BOX



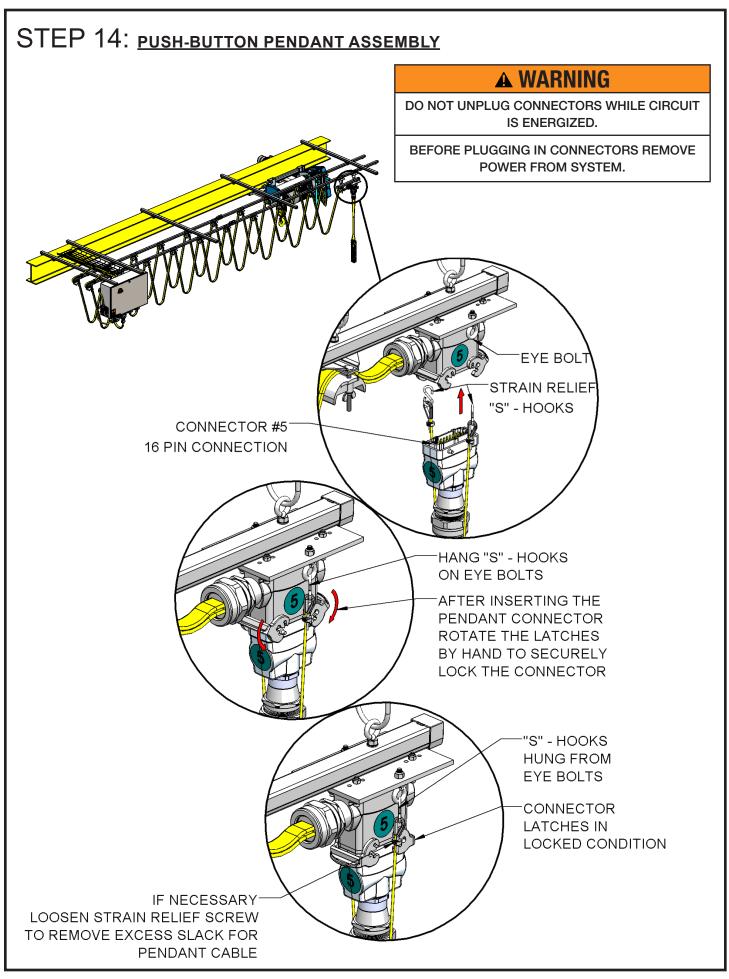
Yale SHAW-BOX.



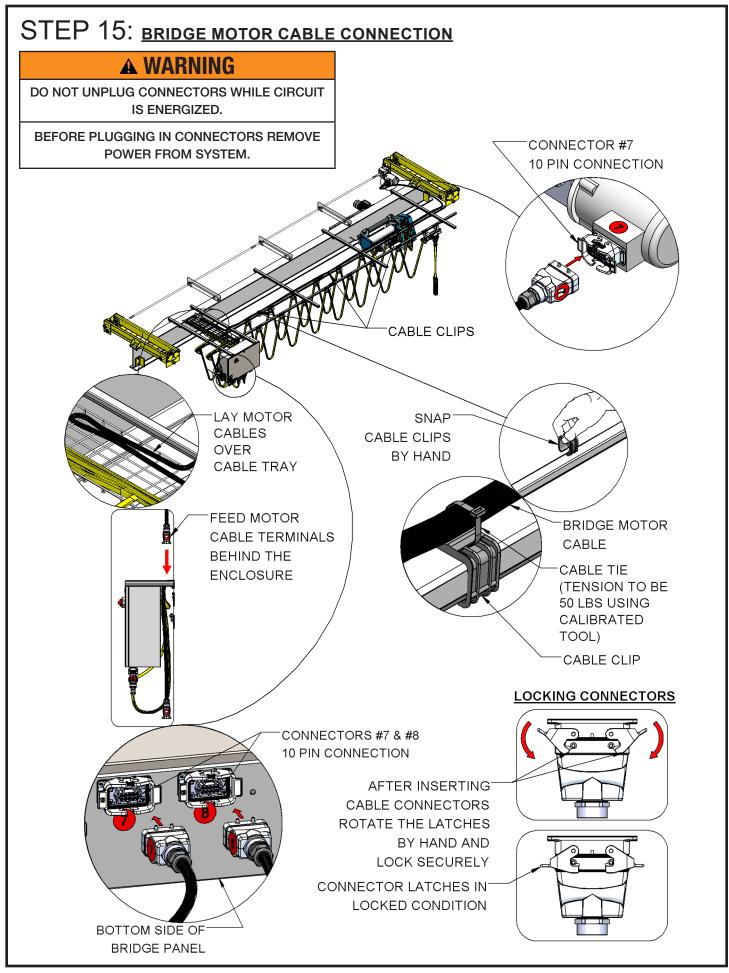




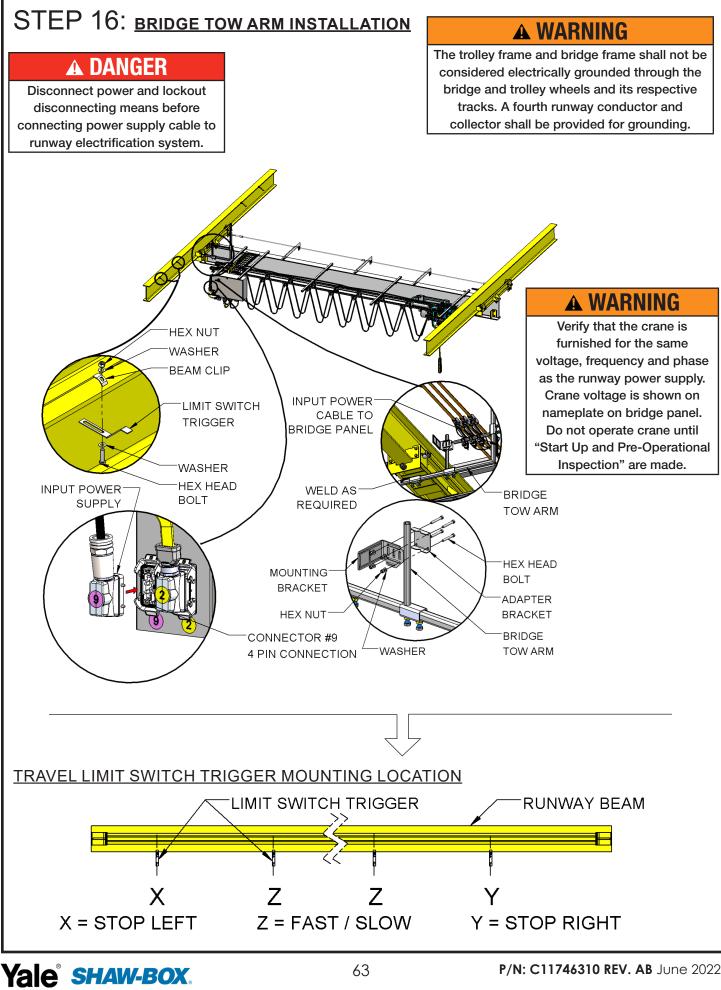
Yale SHAW-BOX.



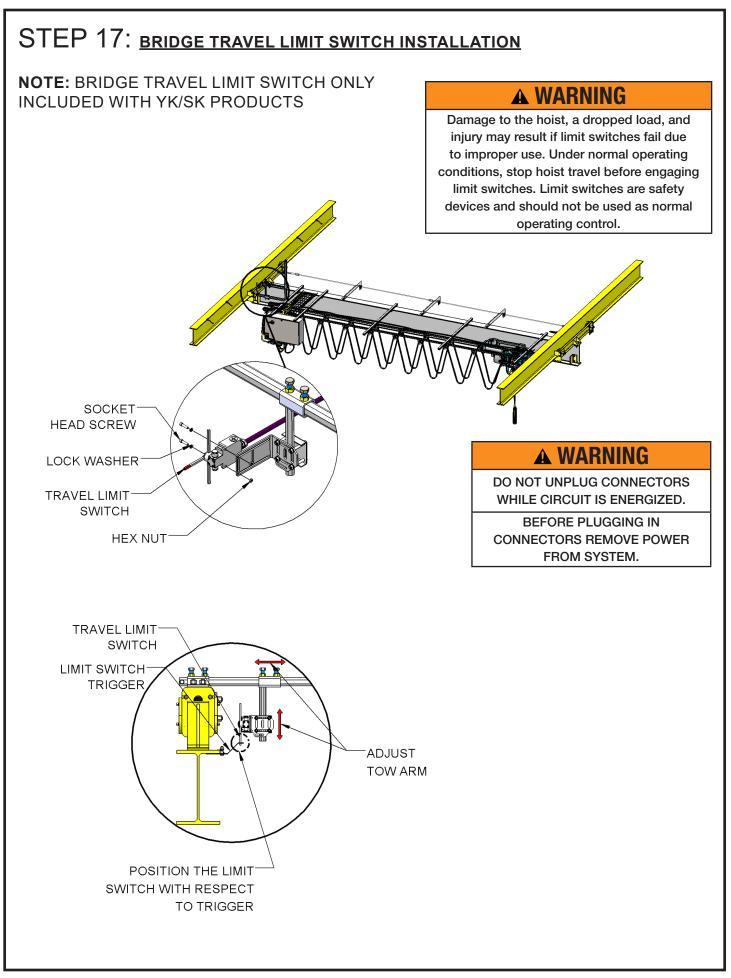
Yale[®] SHAW-BOX.

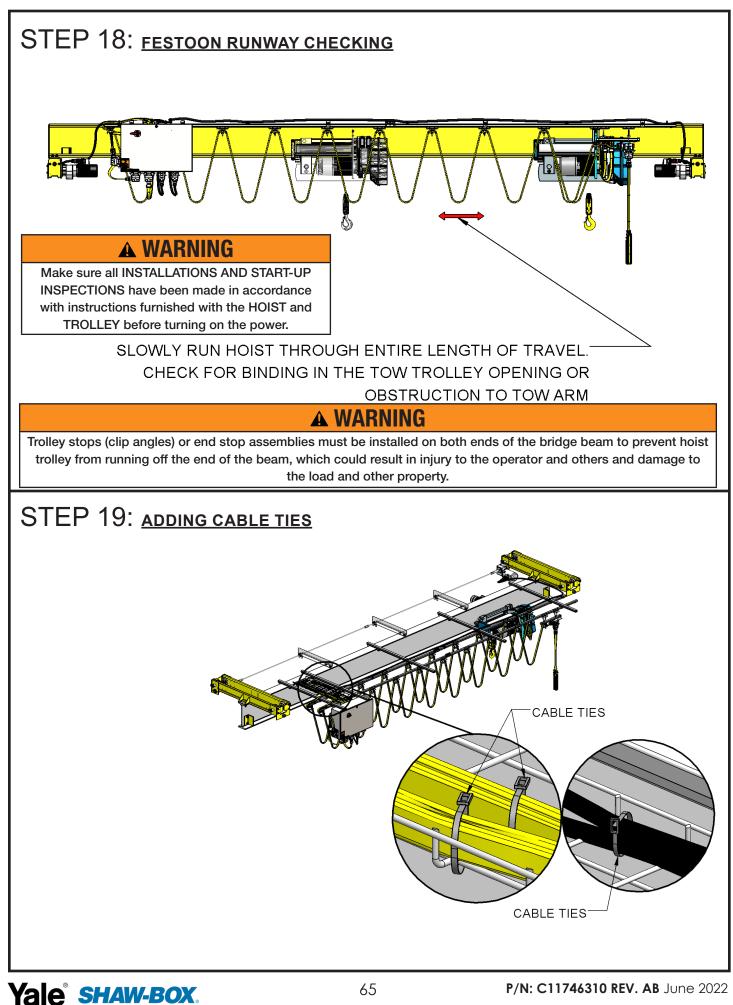


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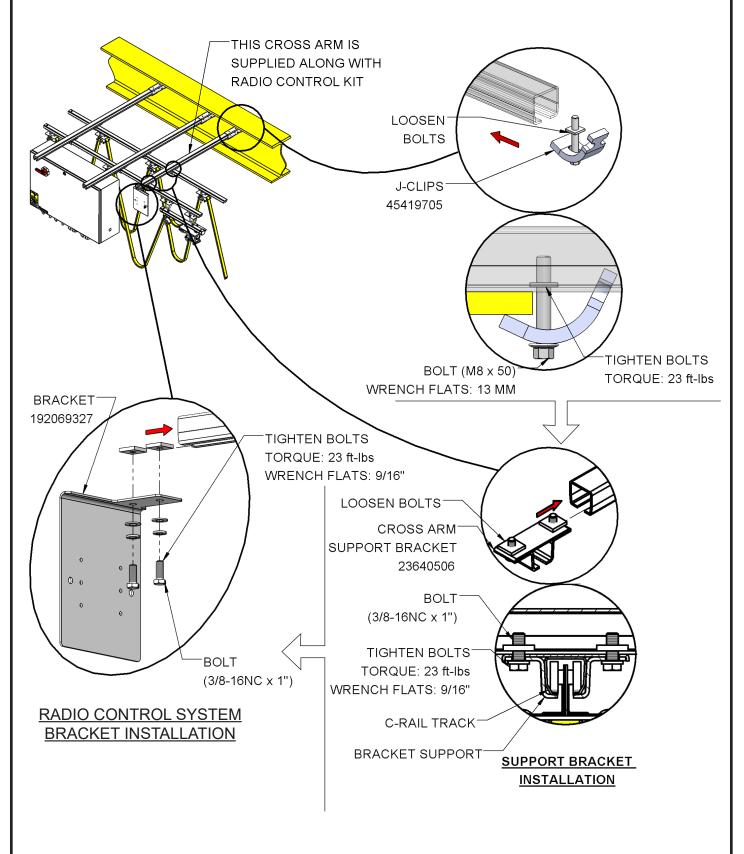


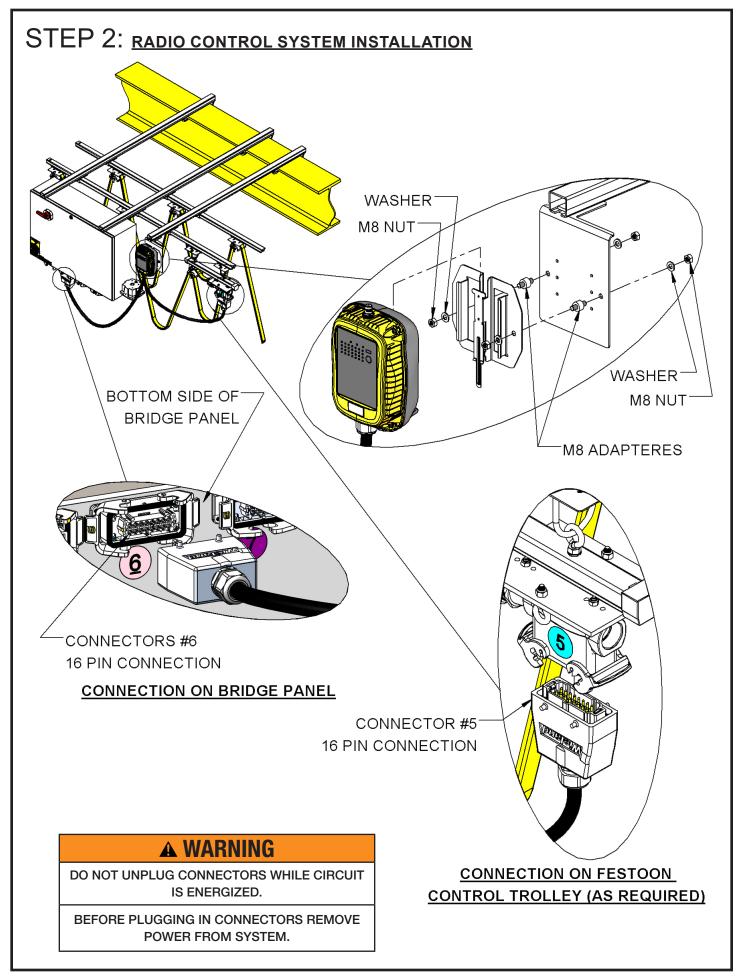




STEP 1: CROSS ARM & BRACKET INSTALLATION FOR RADIO CONTROL

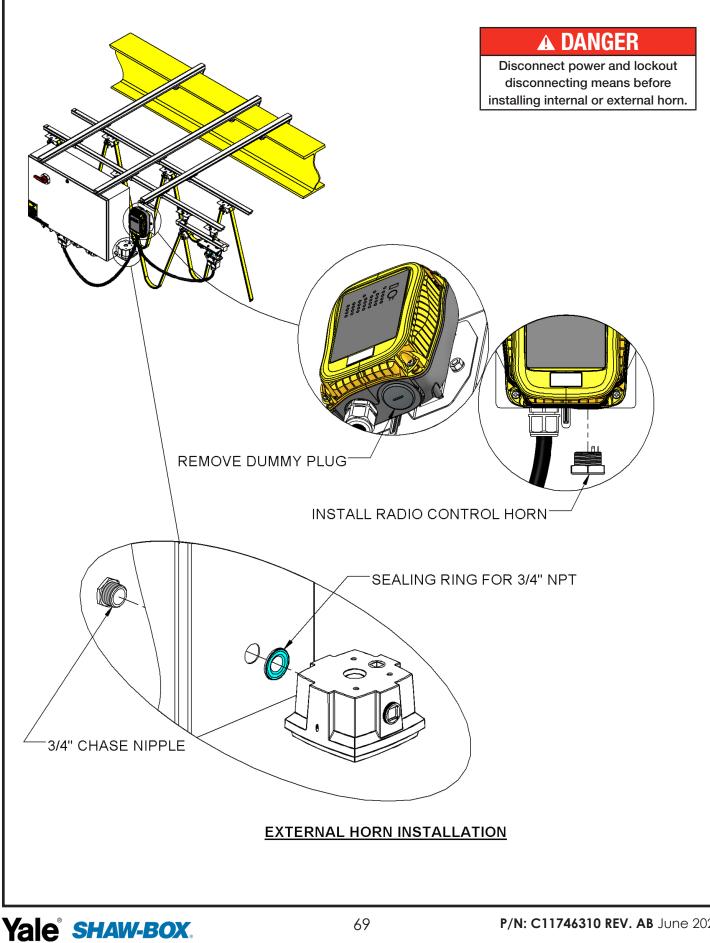
NOTE: MOUNTING BRACKET AND CROSS ARM ONLY INCLUDED WITH YK/SK PRODUCTS





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STEP 3: HORN INSTALLATION (INTERNAL/EXTERNAL)



NOTES:	
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WARRANTY

LIMITATION OF WARRANTIES, REMEDIES, AND DAMAGES

INDEMNIFICATION AND SAFE OPERATION

Buyer shall comply with and require its employees to comply with directions set forth in instructions and manuals furnished by Seller and shall use and require its employees to follow such instructions and manuals and to use reasonable care in the use and maintenance of the Goods and any Replacement Parts. Buyer shall not remove or permit anyone to remove any warning or instruction signs on the Goods or Replacement Parts. In the event of personal injury or damage to property or business arising from the use of the Goods or Replacement Parts, Buyer shall within 48 hours thereafter give Seller written notice of such injury or damage. Buyer shall cooperate with Seller in investigating any such injury or damage and in the defense of any claims arising therefrom.

If Buyer fails to comply with this section or if any injury or damage is caused, in whole or in part, by Buyer's failure to comply with applicable federal or state laws, rules or regulations safety requirements, Buyer shall indemnify and hold Seller harmless against any claims, loss or expense for injury or damage arising from the use of the Goods and/or Replacement Parts.

CMCO Warranty (HOISTS)

- A. Columbus McKinnon Corporation ("Seller") warrants to the original end-user ("Buyer") that, for a period of one (1) year from the date of Seller's delivery of the goods (collectively, the "Goods") to the carrier, the Goods will be free from defects in workmanship and materials... In addition, Seller warrants to Buyer that, for a period of one (1) year from the date of their delivery by Seller to the carrier, any aftermarket or replacement parts, accessories or components purchased by Buyer with respect to any Goods (collectively, "Replacement Parts") will be free from defects in workmanship and materials.
- B. IN THE EVENT OF ANY BREACH OF ANY SUCH WARRANTY, SELLER'S SOLE OBLIGATION SHALL BE EXCLUSIVELY LIMITED TO, AT THE OPTION OF SELLER, REPAIR OR REPLACEMENT, F.O.B. SELLER'S POINT OF SHIPMENT, OF ANY GOODS OR REPLACEMENT PARTS THAT SELLER DETERMINES TO HAVE BEEN DEFECTIVE OR, IF SELLER DETERMINES THAT SUCH REPAIR OR REPLACEMENT IS NOT FEASIBLE, TO A REFUND OF THE PURCHASE PRICE UPON RETURN OF THE OR REPLACEMENT PARTS TO SELLER. NO CLAIM AGAINST SELLER FOR ANY BREACH OF (i) SUCH WARRANTY WITH RESPECT TO THE ELECTRICAL COMPONENTS OF ANY GOOD OR ANY REPLACEMENT PARTS, SHALL BE VALID OR ENFORCEABLE UNLESS BUYER'S WRITTEN NOTICE THEREOF IS RECEIVED BY SELLER WITHIN ONE (1) YEAR FROM THE DATE OF SELLER'S DELIVERY TO THE CARRIER AND (ii) SUCH WARRANTY WITH RESPECT TO THE MECHANICAL COMPONENTS OF ANY GOOD SHALL BE VALID OR ENFORCEABLE UNLESS BUYER'S WRITTEN NOTICE THEREOF IS RECEIVED BY SELLER WITHIN ONE (1) YEAR FROM THE DATE ANY ALLEGED CLAIM ACCRUES. EXCEPT FOR THE WARRANTIES SET FORTH ABOVE, SELLER MAKES NO OTHER WARRANTIES WITH RESPECT TO THE GOODS OR ANY REPLACEMENT PARTS, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUALITY AND/OR THOSE ARISING BY STATUTE OR OTHERWISE BY LAW OR FROM ANY COURSE OF DEALING OR USE OF TRADE, ALL OF WHICH ARE HEREBY EXPRESSLY DISCLAIMED.

- C. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY WITH RESPECT TO ANY GOOD OR REPLACEMENT PART, WHETHER, IN CONTRACT, TORT OR OTHER THEORY OF LAW, FOR LOSS OF PROFITS OR LOSS OF USE, OR FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, DIRECT OR INDIRECT DAMAGES, HOWSOEVER CAUSED. SELLER'S MAXIMUM LIABILITY TO BUYER WITH RESPECT TO THE GOODS OR ANY REPLACEMENT PART SHALL IN NO EVENT EXCEED THE PRICE PAID BY BUYER FOR THE GOODS OR REPLACEMENT PART THAT ARE THE SUBJECT OF THE APPLICABLE CLAIM.
- D. Seller shall not be liable for any damage, injury or loss arising out of the use of the Goods or any Replacement Part if, prior to such damage, injury or loss, such Goods or Replacement Parts are: (1) damaged or misused following Seller's delivery to the carrier; (2) not maintained, inspected, or used in compliance with applicable law and Seller's written instructions and recommendations; or (3) installed, repaired, altered or modified (a) with any part or accessory other than those supplied by Seller or (b) without compliance with such laws, instructions or recommendations.
- E. This warranty is limited and provided only to the original end-user. Each Good and Replacement Part must be registered within sixty (60) days of receipt of each product to establish eligibility. Please register at <u>www.cmworks.com/hoistwarranty-registration</u> or submit a registration card via US mail.
- F. Any action against Seller for breach of warranty, negligence or otherwise in connection with the electrical components of any Good must be commenced by Buyer within one (1) year after (a) the date any alleged claim accrues; or (b) the date of delivery of the Goods to Buyer, whichever is earlier. Any action against Seller for breach of warranty, negligence or otherwise in connection with the mechanical components of any Good must be commenced by Buyer within one (1) year after the date any alleged claim accrues... Any action against Seller for breach of warranty, negligence or otherwise in connection with any Replacement Part must be commenced by Buyer within one (1) year after (y) the date any alleged claim accrues; or (z) the date of delivery of the Replacement Part to Buyer, whichever is earlier.
- G. This warranty is contingent upon Buyer's proper maintenance and care of the Goods and/or Replacement Parts, and does not extend to normal wear and tear. Seller reserves the right, at its option, to void this warranty in the event of Buyer's use with the Goods and/or Replacement Parts of parts or accessories other than those supplied by Seller.

A WARNING

Alterations or modifications of equipment and use of non-seller replacement parts can lead to dangerous operation and injury.

TO AVOID INJURY:

- Do not alter or modify equipment.
- •Do use only replacement manufactured by seller.



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