



# X-FACTOR

Performance Crossmembers by MORryde

## INSTALLATION INSTRUCTIONS

### CROSS MEMBER INSTALLATION INSTRUCTIONS (UO21-003)

The MORryde X-Factor crossmember kit is designed to provide added strength and reinforcement to trailer frames. The crossmember can be installed onto a single spring hanger or for added strength and reinforcement onto all of the spring hangers on the frame. The installation instructions for the kit are detailed below. Please note there are specific installation instructions for trailers equipped with a MORryde suspension system.

#### TOOLS REQUIRED:

Torque wrench  
11/16" socket & 13/16" wrench  
9/16" socket & wrench  
1/2" socket & wrench  
Floor jacks  
Safety stands

#### PARTS LIST:

Crossmember half w/ holes, 2nd half w/ slots  
(2) Clamp strap  
(8) 3/8-16 x 1 Flange bolt  
(8) 3/8-16 Flange locknut  
(4) 5/16-18 x 1 1/2 HHCS  
(4) 5/16-18 Locknut  
(2) 7/16-20 x 3.40 wet bolt  
(2) 7/16-20 Flange locknut

Alternate tools for reinforced frame hanger: 5/16" drill bit & drill

#### STANDARD 3" WIDE FRAME HANGER:

**STEP 1** Using appropriately rated jacks to support the trailer, jack unit up and support frame with safety stands and support axles with floor jacks.

**STEP 2** Remove shoulder bolt from frame hanger.

**STEP 3** Replace with wet bolt (shoulder bolt w/ grease zerk) included in installation kit. The bolt should point toward the inside of the trailer. Do not install nut until next step.

**STEP 4** Slide cross member half with slots over the end of the wet bolt and thread the nut on without tightening. The open end of the channel should point down.

**STEP 5** Repeat steps 2-4 on opposite side of frame for the cross member half with holes.

**STEP 6** Make sure the cross member ends are pressed against the frame hanger. Line up holes on both cross members and insert flange bolts (4 on each side) into holes that are furthest from the center in both the top and bottom rows (do not tighten flange bolts at this time).

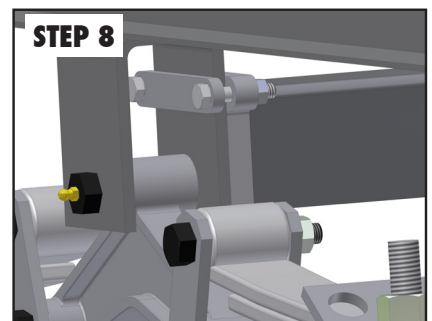
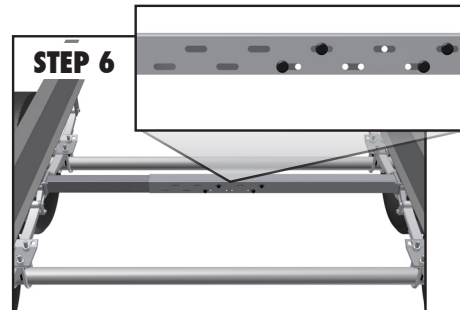
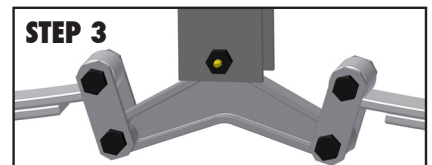
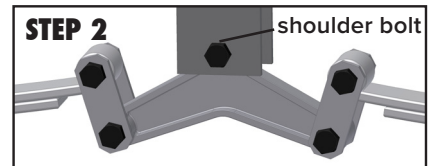
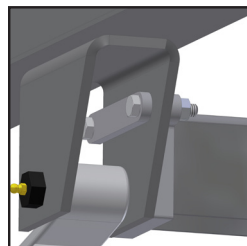
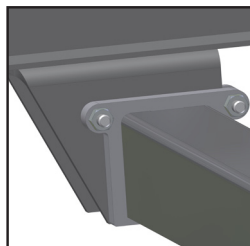
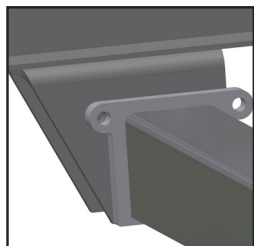
**STEP 7** Tighten wet bolts from step 3 on both sides to 40 ft-lbs. Then tighten flange bolts from step 6 to 40 ft-lbs.\*

**STEP 8** Insert clamp strap inside frame hanger and bolt to cross member. Tighten to 15 ft-lbs.

**STEP 9** Remove jacks and supports from frame and axles.

#### IF THE UNIT HAS A REINFORCED FRAME HANGER:

\*Align bottom edge of cross member end plate to bottom edge of frame hanger. Drill out one or both holes as needed in the frame hanger with a 5/16" drill bit. Return to step 8 above.





# SRE WITH CROSS MEMBER INSTALLATION INSTRUCTIONS (UO21-003)

The MORryde X-Factor crossmember kit is designed to provide added strength and reinforcement to trailer frames. The crossmember can be installed onto a single spring hanger or for added strength and reinforcement onto all of the spring hangers on the frame. The installation instructions for the kit and the **SRE4000** are detailed below.

**WARNING: THE SRE SUSPENSION SYSTEM WARRANTY IS VOID IF CROSSMEMBER IS NOT INSTALLED.**

## TOOLS REQUIRED:

Torque wrench  
11/16" socket & 13/16" wrench  
9/16" socket & wrench  
1/2" socket & wrench  
Floor jacks  
Safety stands  
Alternate tools for reinforced  
frame hanger: 5/16" drill bit & drill

## PARTS LIST:

Crossmember half w/ holes, 2nd half w/ slots  
(2) **SRE4000** Suspension System  
(2) Clamp strap  
(8) 3/8-16 x 1 Flange bolt  
(8) 3/8-16 Flange locknut  
(4) 5/16-18 x 1 1/2 HHCS  
(4) 5/16-18 Locknut  
(2) 7/16-20 x 3.40 wet bolt  
(2) 7/16-20 Flange locknut

## STANDARD 3" WIDE FRAME HANGER:

**STEP 1** Using appropriately rated jacks to support the trailer, jack unit up and support frame with safety stands and support axles with floor jacks.

**STEP 2** Remove shoulder bolt from frame hanger and remove shackle links.

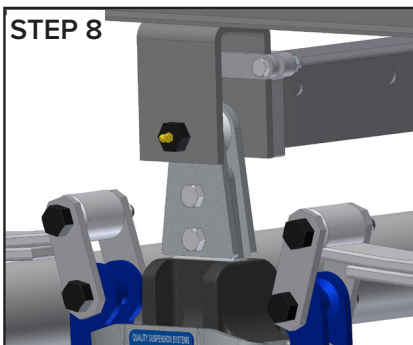
**STEP 3** Replace stock equalizer with **SRE4000**. Reinstall shackle links and tighten shackle link nuts. Replace shoulder bolt with wet bolt (shoulder bolt w/ grease zerk) included in installation kit. The bolt should point toward the inside of the trailer. Do not install nut until next step.

**STEP 4** Slide cross member half with slots over the end of the wet bolt and thread the nut on without tightening. The open end of the channel should point down.

**STEP 5** Repeat steps 2-4 on opposite side of frame for the cross member half with holes.

**STEP 6** Make sure the cross member ends are pressed against the frame hanger. Line up holes on both cross members and insert flange bolts (4 on each side) into holes that are furthest from the center in both the top and bottom rows (do not tighten flange bolts at this time).

## STEP 8



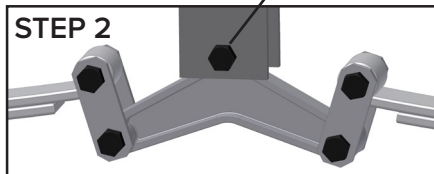
**STEP 7** Tighten wet bolts from step 3 on both sides to 40 ft-lbs. Then tighten flange bolts from step 6 to 40 ft-lbs.

**STEP 8** Insert clamp strap inside frame hanger and bolt to cross member. Tighten to 15 ft-lbs.

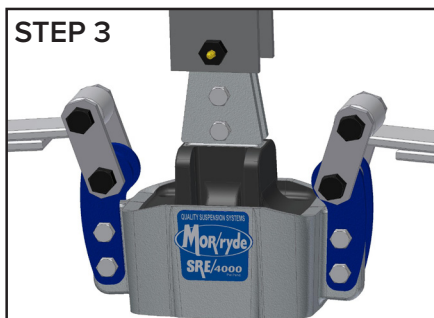
**STEP 9** Remove jacks and supports from frame and axles.

shoulder bolt

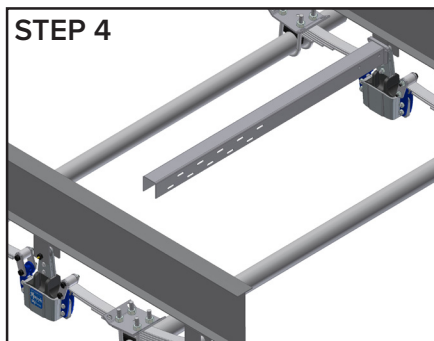
## STEP 2



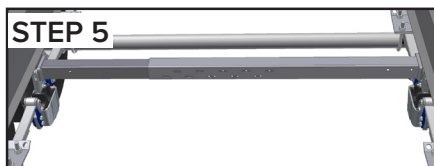
## STEP 3



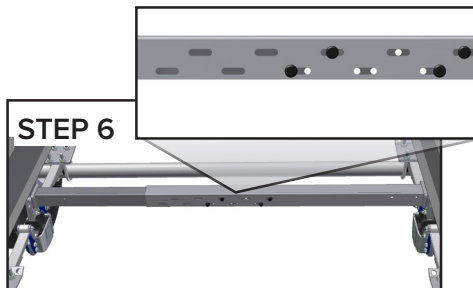
## STEP 4



## STEP 5



## STEP 6





# CROSS MEMBER INSTALLATION INSTRUCTIONS (RE21-004)

(for installation with MORryde Suspension Systems)

The MORryde X-Factor crossmember kit is designed to provide added strength and reinforcement to trailer frames. The crossmember can be installed onto a single spring hanger or for added strength and reinforcement onto all of the spring hangers on the frame. The installation instructions for the kit are detailed below. Please note these are specific installation instructions for trailers equipped with a MORryde leaf spring suspension system (LRE, RE, TRE).

## TOOLS REQUIRED:

Torque wrench  
11/16" socket & 13/16" wrench  
9/16" socket & wrench  
1/2" socket & wrench  
Floor jacks  
Safety stands  
Alternate tools for reinforced  
frame hanger: 5/16" drill bit & drill

## PARTS LIST:

Crossmember half w/ holes,  
2nd half w/ slots  
(8) 3/8-16 x 1 Flange bolt  
(16) 3/8-16 Flange locknut  
(8) 3/8-16 x 1 1/4 HHCS

## MORryde LRE, RE, TRE FRAME HANGER:

**STEP 1** Using appropriately rated jacks to support the trailer, jack unit up and support frame with safety stands and support axles with floor jacks.

**STEP 2** Remove all 4 inside bolts that bolt the rubber spring to the inside of the LRE frame hanger.

**STEP 3** Replace with longer hex head bolts so that the bolts point toward the inside of the trailer.

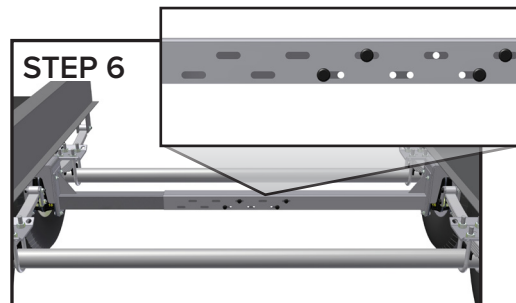
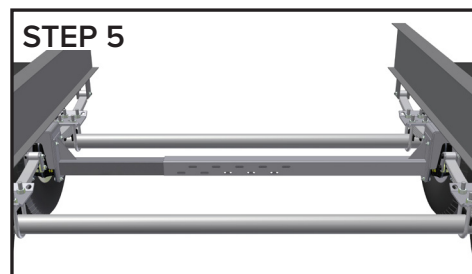
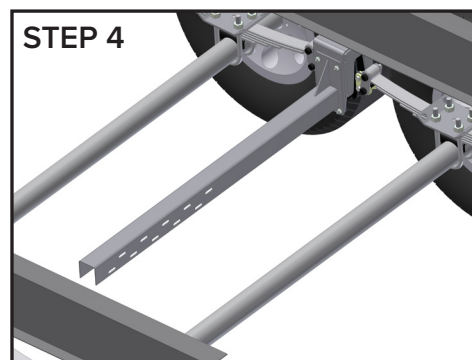
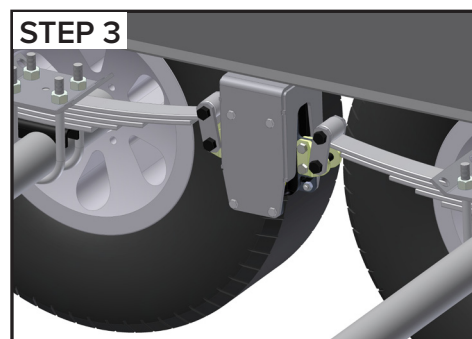
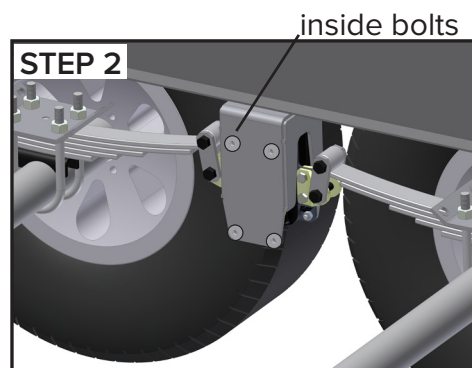
**STEP 4** Slide cross member half with slots over the end of the bolt and thread the flange nut on without tightening. The open end of the channel should point down.

**STEP 5** Repeat steps 2-4 on opposite side of frame for the cross member half with holes.

**STEP 6** Make sure the cross member ends are pressed against the frame hanger. Line up holes on both cross members and insert flange bolts (4 on each side) into holes that are furthest from the center in both the top and bottom rows (do not tighten flange bolts at this time).

**STEP 7** Tighten hex head bolts from step 3 on both sides to 40 ft-lbs. Then tighten flange bolts from step 6 to 40 ft-lbs.

**STEP 8** Remove jacks and supports from frame and axles.





# CROSS MEMBER INSTALLATION INSTRUCTIONS WITH CORRECT TRACK™ FRAME HANGERS (UO21-015)

## TOOLS REQUIRED:

Torque wrench  
9/16" socket & wrench  
Floor jacks (optional)  
Safety stands (optional)

## PARTS LIST:

(1) Crossmember half w/ holes  
(1) Crossmember half w/ slots  
(4) Clamp plate  
(2) Spacer plate  
(8) 3/8-16 x 1 Flange bolt  
(26) 3/8-16 Flange locknut  
(12) 3/8-16 x 1 1/4 HHCS  
(6) 3/8-16 x 4 1/4 HHCS

**STEP 1** (This step is optional. Depending on ground clearance, it may not be necessary to raise the height of the trailer to install the cross member.) Using appropriately rated jacks to support the trailer, jack unit up and support the frame with safety stands.

**STEP 2** Place one clamp plate on either side of one of the Correct Track hangers such that the small arm of the clamp plate is resting on the top of the flanges of the Correct Track hanger. Insert (2) of the 4-1/4" bolts through the center of the hanger and loosely install nuts on the other side. Then place a third 4-1/4" bolt going the opposite direction through the remaining hole by the hanger.

**STEP 3** Align the spacer plates on the inside of the clamp plates and put the 1-1/4" bolts through the holes until the ends of the bolts are flush with the inner face of the spacer plates.

**STEP 4** Align the mounting holes on the cross member half with holes and push in the bolts from Step 3. Loosely install nuts.

**STEP 5** Repeat Step 2 on the opposite hanger.

**STEP 6** Slide slotted end of cross member half with slots over the cross member half with holes and then align the mounting holes on the cross member half with slots to the clamp plates and insert the 1-1/4" bolts and loosely install the nuts.

**STEP 7** Line up holes and slots on both cross member halves and insert the flange bolts (4 on each side) into holes that are furthest from the center in both the top and bottom rows and loosely install the nuts.

**STEP 8** Align the top arm of the clamp plates to the top of the flanges on the Correct Track and tighten the nuts on the 4-1/4" bolts to 26 ft-lbs. Then, tighten the nuts on the 1-1/4" bolts that hold the clamp plates to the cross members to 40 ft-lbs. Finally tighten the nuts and flange bolts on the cross members to 40 ft-lbs.

**STEP 9** (This step is optional.) Remove jacks and safety stands from the frame.

