

SRE4000 TRIPLE with CROSS MEMBER

INSTALLATION INSTRUCTIONS



The MORryde X-Factor Cross Member Kit is designed to provide added strength and reinforcement to the trailer frame and can be installed on one or all spring hangers. However, when installed with the Triple SRE, the X-Factor cross members are installed at the **equalizer** hangers. The installation instructions for the Cross Member Kit and the **SRE4000** are detailed below.

⚠ WARNING The SRE4000 suspension system warranty is void if the Cross Members are not installed at the **equalizer** hangers.

TOOLS REQUIRED:

- Torque Wrench • 11/16" Socket & 13/16" Wrench • 3/4" Socket & Wrench
- 9/16" Socket & Wrench • 1/2" Socket & Wrench • Floor Jacks • Safety Stands
- Ratchet • Alternate Tools for Reinforced Frame Hanger: 5/16" Drill Bit & Drill



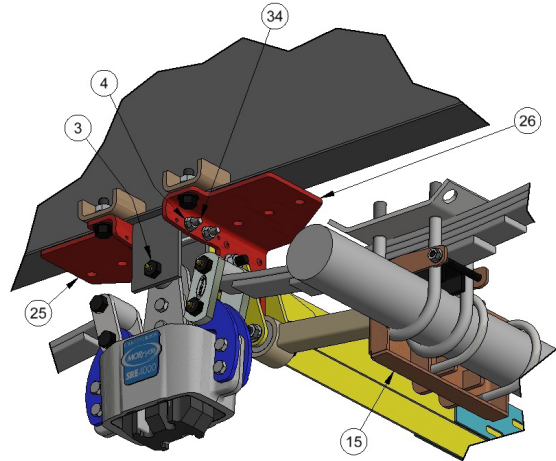
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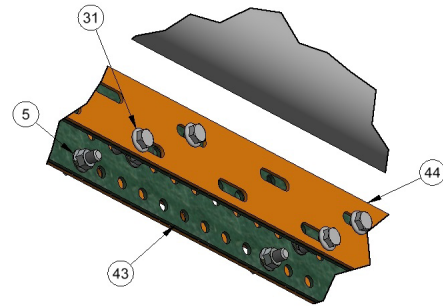
PARTS LIST:

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ITEM	QTY	PART NUMBER	DESCRIPTION
1	20	006-092-01	Flange Locknut, 7/16-20
2	4	007-187-00	Wet Bolt, 7/16-20 x 9/16 x 2.9
3	4	007-236-01	Wet Bolt, 7/16-20 x 9/16 x 3.4
4	24	MO116-002	Locknut, 7/16-14
5	22	MO116-008	Flange Locknut, 3/8-16
6	2	RE150-004	1/2" Shackle Link
7	2	RE43-004	Shackle Link Assembly
8	4	SRE108-039	Rubber Shear Spring
9	4	SRE111-001	SRE Frame Hanger Weldment
10	4	SRE123-008	Flange Gusset
11	4	SRE124-001	SRE Frame Hanger Plate
12	8	SRE157-033	Shackle Bracket Plate 33" WB
*13	8	SRE157-035	Shackle Bracket Plate 35" WB
14	4	SRE162-4000	SRE Decal
15	1	SRE20-004	Axle Torque Bracket O/S: LH (U/S: RH)
16	1	SRE20-005	Axle Torque Bracket O/S: RH (U/S: LH)
*17	1	SRE21-015	Triple Control Inner Cross Member Channel - Correct Track
*18	1	SRE21-016	Triple Control Outer Cross Member Channel - Correct Track
19	1	SRE21-018	Triple Control Inner Cross Member Channel
20	1	SRE21-019	Triple Control Outer Cross Member Channel
21	2	SRE30-033	Torque Arm 33" WB
*22	2	SRE30-035	Torque Arm 35" WB
23	1	SRE32-003L	Outer Channel Cross Member Support
24	1	SRE32-003R	Outer Channel Cross Member Support
25	1	SRE32-004L	Inner Channel Cross Member Support
26	1	SRE32-004R	Inner Channel Cross Member Support
27	8	SRE43-033	Shackle Bracket Weldment 33" WB
*28	8	SRE43-035	Shackle Bracket Weldment 35" WB
29	4	UO113-009	U-Bolt, 7/16-20 x 3-1/8 x 4-1/2
30	24	UO115-028	Hex Bolt, 7/16-14 x 1-3/4 Gr5
31	2	UO115-033	Hex Bolt, 3/8-16 x 3-3/4 Gr5
32	4	UO115-078	Flange Bolt, 1/2-13 X 1-1/2 Gr8
33	16	UO115-400	Flange Bolt, 3/8-16 x 1 Gr8
34	4	UO115-639	Hex Bolt, 3/8-16 x 4-1/4 Gr8
35	4	UO115-831	Flange Bolt, 1/2-13 x 4-1/2 Gr8
36	8	UO116-054	Serrated Flange Nut, 1/2-13
37	4	UO118-005	Steel Bushing
38	4	UO128-006	Rubber Bushing
39	16	UO136-592	Bronze Bushing
40	4	UO115-066	Hex Bolt, 5/16-18 x 1-1/2 Gr5
41	4	UO116-068	Locknut, 5/16-18
42	2	UO123-023	Cross Member Brace
43	1	UO21-001	Inner Cross Member Channel
44	1	UO21-002	Outer Cross Member Channel

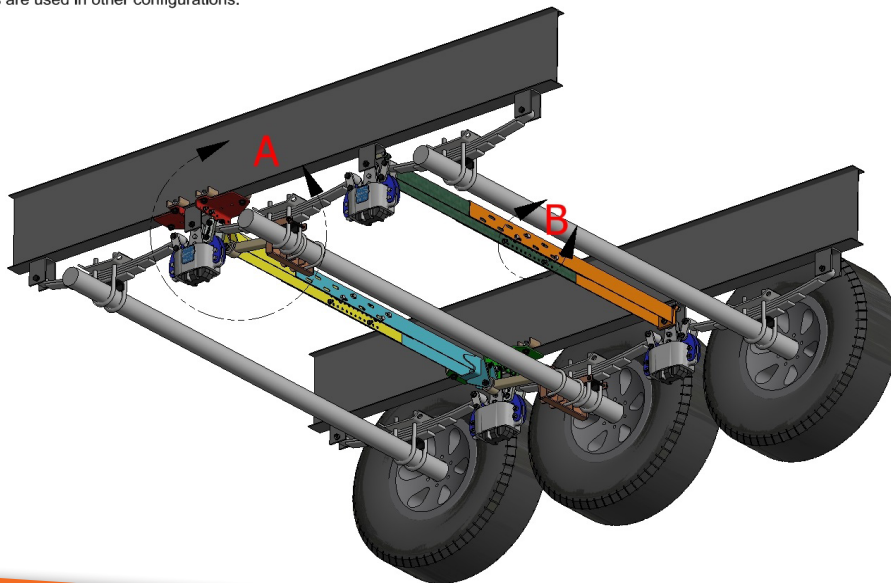
*Denotes parts not shown. These parts are used in other configurations.



DETAIL A

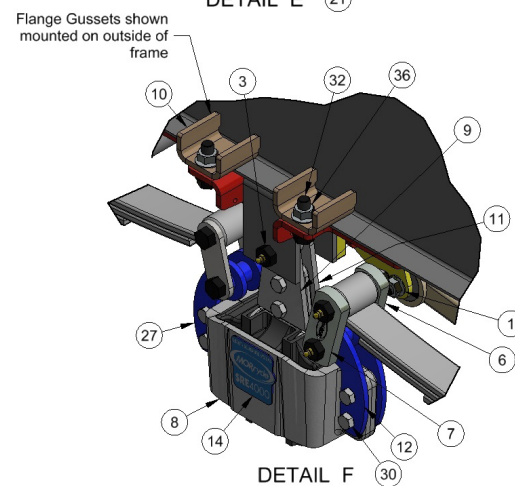
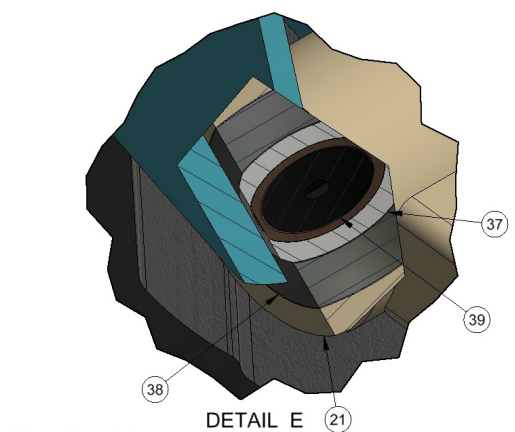
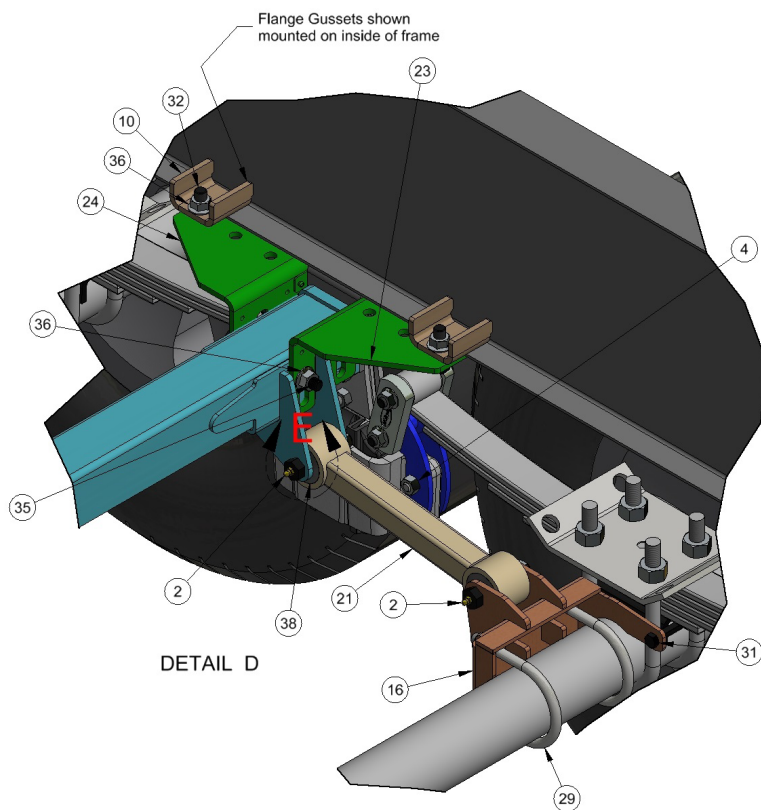
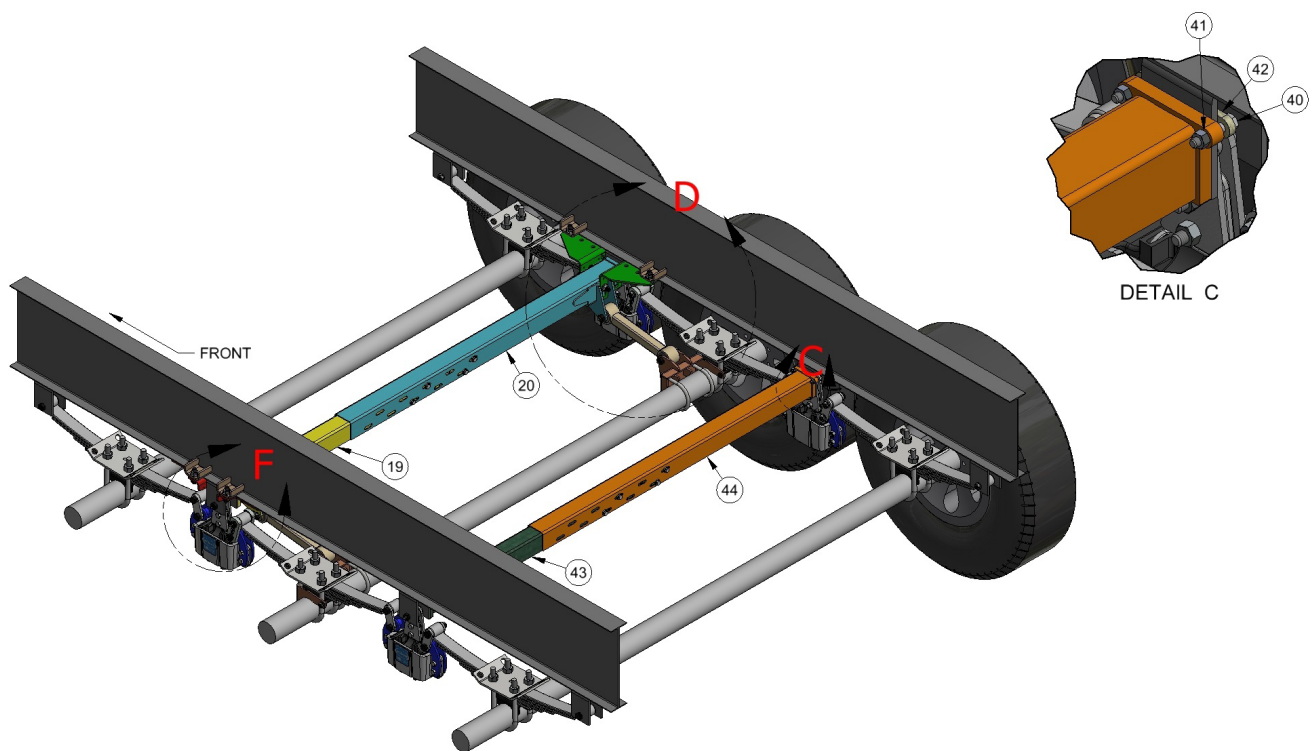


DETAIL B



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INSTALLATION:

Step 1

Loosen all lug nuts. Using appropriately rated jacks, raise the unit and support the frame with safety stands. Support the axles with floor jacks and remove all wheels.

Step 2

On the curbside of the unit, remove the shackle links from the front leaf spring, remove the shoulder bolt from the center leaf spring, and then remove the shoulder bolt from the top of the equalizer.

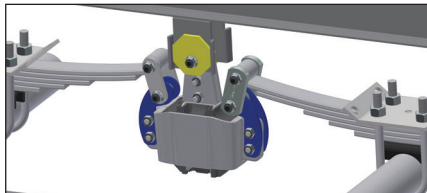


Step 3

Replace the stock equalizer with **SRE4000** using one of the 3.40" long wet bolts (shoulder bolts with grease zerk) included in the installation kit. The threaded end of the bolt will face the inside of the trailer. Install the nut. Reinstall the front shackle links as well as and install the new shackle links on the rear of the **SRE4000**.

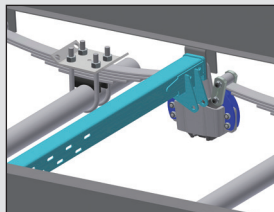
NOTE:

The Correct Track octagons must be in the center position*



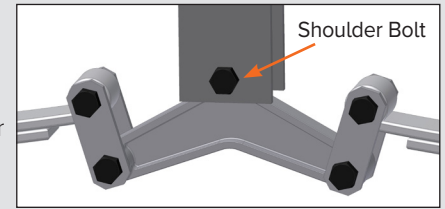
Step 4

Remove the floor jack from the front axle and use it to support the rear axle.



Step 5

Remove the shackle links from the rear equalizer, then remove the shoulder bolt.



Step 6

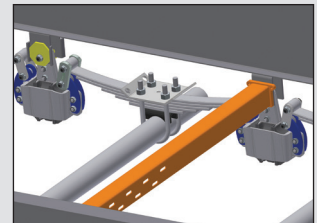
Replace the stock equalizer with the **SRE4000** using one of the 3.40" long wet bolts. Reinstall the shackle links.

NOTE: The threaded end of the bolt will face the inside of the trailer; do not install the nut until the next step.



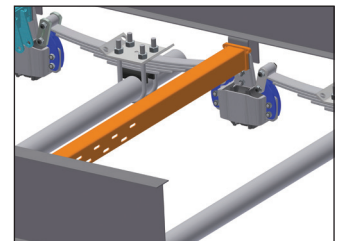
Step 7

Slide the Outer Cross Member Channel with slots over the end of the wet bolt and thread the nut without tightening. The open end of the channel will face down.



Step 8

Starting at the front of the frame and moving rearward, repeat Steps 2-7 on the opposite side of the frame using the mating Cross Member Channel with holes.



*Because the **SRE4000** uses shackle links on both sides of the equalizer installed in the Correct Track hanger (as opposed to only one side with a traditional triple equalizer), adjusting the pivot point location of the Correct Track would have no effect.



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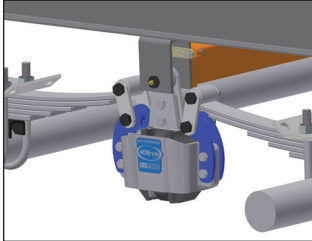
INSTALLATION CONTINUED:

Step 9

Tighten all nuts on the wet bolts from Steps 3 and 6 on both sides to 40 ft-lbs.

Step 10

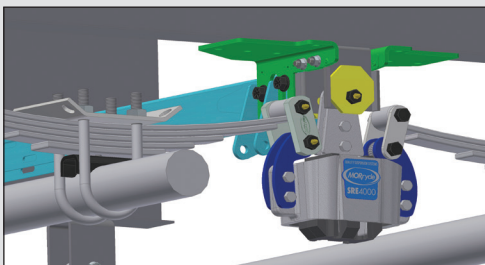
Insert the Cross Member Brace inside the rear equalizer hangers and bolt it to the Cross Member using the 5/16" bolts and nuts. Tighten to 15 ft-lbs.



Step 11

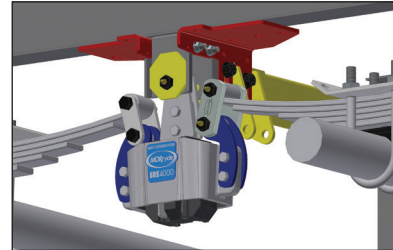
Pre-bolt the Outer Channel Cross Member Supports (angle plates riveted with a small plate) to the Triple Control Outer Cross Member Channel using the long 1/2" flange bolts, but do not tighten them down. Slide the arms of the Cross Member Supports over the flanges of the Correct Track equalizer hanger and use the 3/8" x 4-1/4" bolts to attach the Cross Member Supports to the hanger.

NOTE: It may be necessary to trim away the underbelly material so the Cross Member Supports can sit tight to the frame.



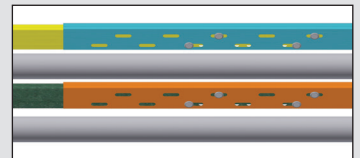
Step 12

Repeat Step 11 for the Triple Control Inner Cross Member Channel and Supports.



Step 13

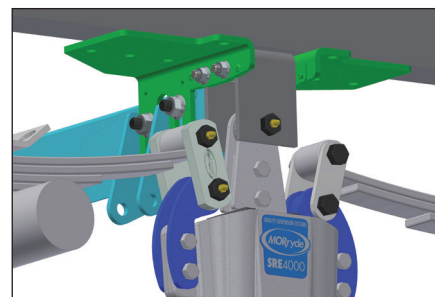
Make sure the Cross Member ends are pressed against the frame hangers. Line up the holes on both Cross Members channels and insert the 3/8" flange bolts into the holes that are farthest from the center in both the top and bottom rows (4 on each side), then tighten the bolts to 40 ft-lbs.



Step 14

Torque the 3/8" bolts that attach the Cross Member Supports to the Correct Track equalizer hanger to 40 ft-lbs. Torque the 1/2" flange bolts that bolt the Cross Member Supports to the Triple Control Cross Member Channels to 80 ft-lbs.

NOTE: It may be necessary to trim away underbelly material so the Cross Member Supports can sit tight to the frame.



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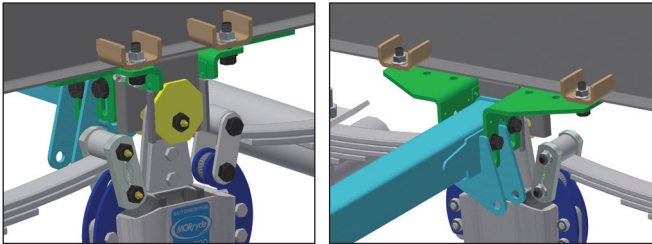
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INSTALLATION CONTINUED:

Step 15

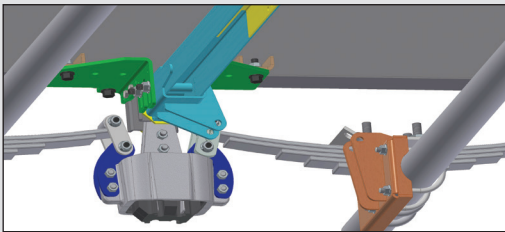
Using the short 1/2" flange bolts, bolt the Flange Gussets to the Cross Member Supports.

NOTE: If a flange stiffener is welded to the frame above the equalizer hanger, bolt the Flange Gussets to the inside of the frame using the outermost holes possible in the Cross Member Supports. (The underbelly material must be trimmed to do so.) If there is no flange stiffener on the frame, bolt the Flange Gussets to the outside of the frame. In either case, torque the bolts to 80 ft-lbs.



Step 16

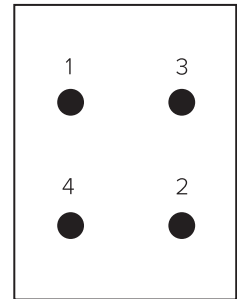
Bolt the Axle Torque Brackets to the center axle. In the case of an overslung axle, install the Axle Torque Brackets as shown. In the case of an underslung axle, install the Brackets with the Torque Arm mounting hole at the bottom of the axle instead of the top. Only install the U-bolts for now and do not tighten the nuts.



Step 17

Using the short wet bolts, bolt the Torque Arm between the front Cross Member and the Axle Torque Brackets. Torque to 40 ft-lbs. Now torque the U-bolts to 40 ft-lbs; these must be tightened using a cross-pattern sequence (see diagram). Insert the 3/8" x 3-3/4" bolt through the back of the Axle Torque Brackets; this is located below the leaf spring for overslung axles and above the leaf spring for underslung axles. Torque to 40 ft-lbs.

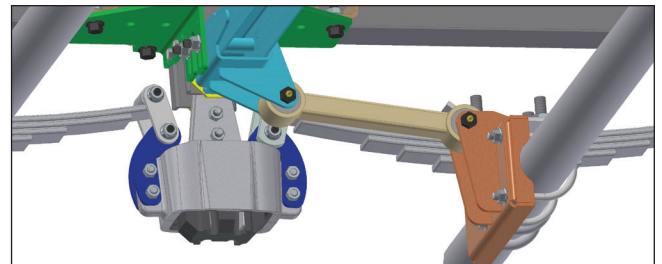
U-Bolt Torque Pattern Visual Aid



U-Bolts must be tightened and torqued using a cross-pattern sequence.

Tighten #1 and #2 to partial torque, then #3 and #4 to partial torque.

Using the same sequence, fully torque the U-Bolt Nuts.



Step 18

Reinstall all wheels, then remove the jacks and supports from the frame and axles. Torque all lug nuts according to manufacturer specifications.

If you have any questions regarding the installation procedure or have difficulty with any of the steps, please give us a call at **574-293-1581** or email **parts@morryde.com**.



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