

Running Engine Stand



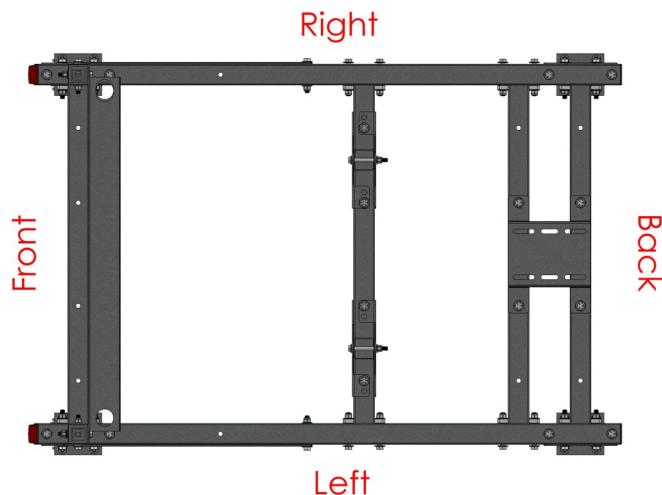
Main Assembly Instruction Manual

Important Notes for Assembly:

- Use care when handling parts. There may be sharp edges and holes on components. Using thick protective gloves is recommended during the assembly process.
- During assembly, snug all bolts. Then immediately back the nut off one half turn. Bolts will be torqued at specified times.
- Each bolt and nut should have the appropriately sized washer placed between the fastener and the frame.
- When referencing assembly directions, the front of the engine stand is the side with the radiator support structure.
- If using accessory add-ons, take note of steps that require simultaneous installation to avoid future disassembly when installing said components.

Required Tools:

- Ratchet
- 9/16" Wrench
- 9/16" Socket
- 5/8" Wrench
- 5/8" Socket



If you are experiencing problems upon installation—
DO NOT RETURN THIS PRODUCT!

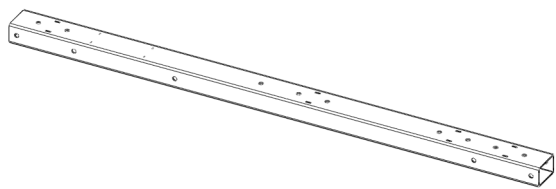
Most installation problems can be easily solved.

First contact technical support at:

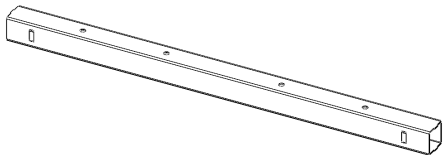
Service@mechman.com

1 (888) MECHMAN or 865-522-6166

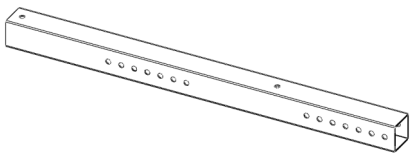
Included Components:



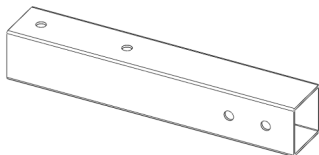
Frame Side Rail 2x



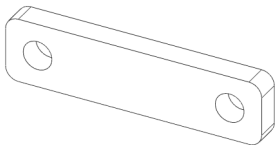
Frame Crossmember 4x



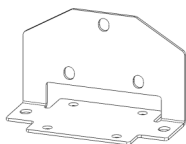
Radiator Support Tube 2x



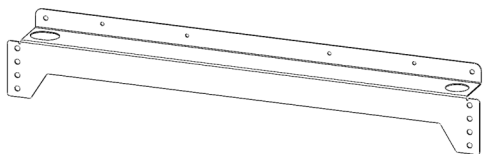
Front Engine Support Tube 2x



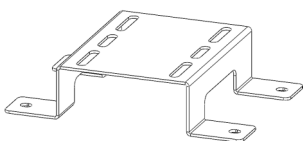
Locking Key 8x



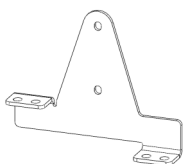
Caster Bracket 4x



Radiator Support Crossmember 2x

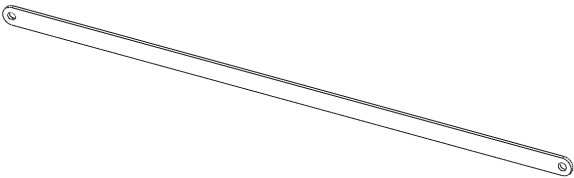


Rear Engine Mount Bracket 1x



Front Engine Support Gusset 4x

Included Components:



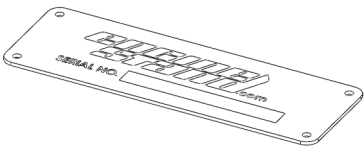
Radiator Strut 2x



Solid Caster, 6" 2x



Swivel Caster, 6" w/ Brake 2x

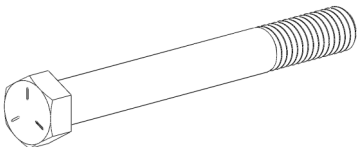


Serial # Plate 1x

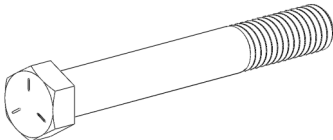


Warning Plate 1x

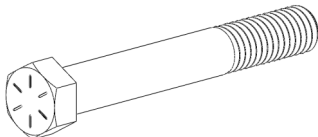
Included Hardware:



7/16"-14 x 4" Hex Bolt 8x

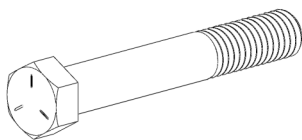


7/16"-14 x 3.5" Hex Bolt 8x

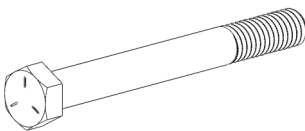


7/16"-14 x 3.25" Hex Bolt 12x

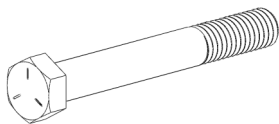
Included Hardware



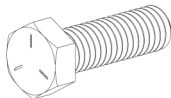
7/16"-14 x 3" Hex Bolt 6x



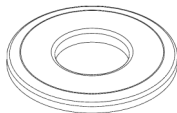
3/8"-16 x 3.5" Hex Bolt 4x



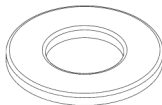
3/8"-16 x 3" Hex Bolt 12x



3/8"-16 x 1.25" Hex Bolt 16x



7/16" Flat Washer 68x



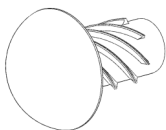
3/8" Flat Washer 64x



7/16"-14 Nylock Nut 34x



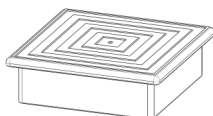
3/8"-16 Nylock Nut 32x



Size 6 x 1/4" Screw Nail 8x



2"x3" Tubing End Cap 4x



2" Tubing End Cap 2x

Assembly Instructions:

Step 1: Attaching Frame Crossmembers to the Frame Side Rail

Required Components:

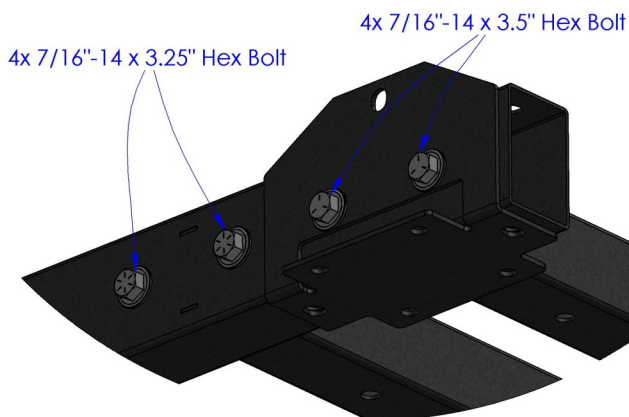
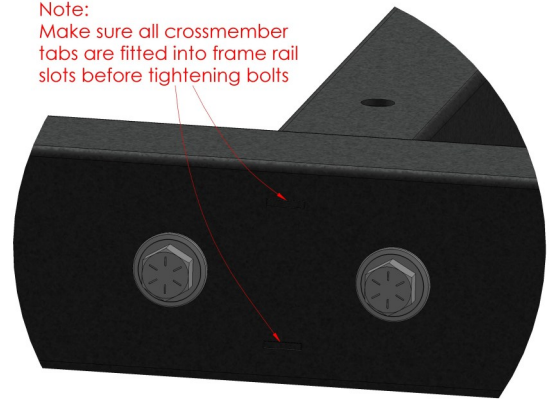
- 4x Frame Crossmember
- 1x Frame Side Rail
- 2x Caster Bracket
- 4x Locking Key

Required Hardware:

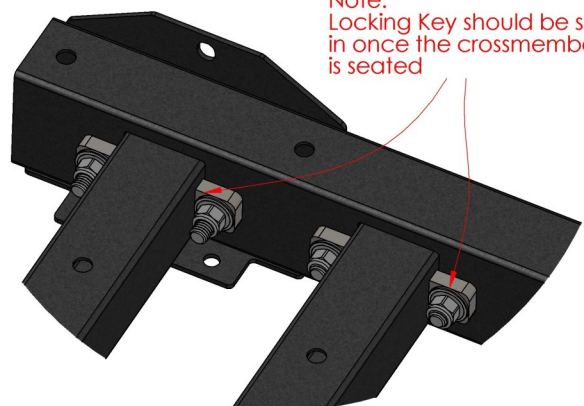
- 4x 7/16"-14 x 3.5" Hex Bolt
- 4x 7/16"-14 x 3.25" Hex Bolt
- 16x 7/16" Flat Washer
- 8x 7/16"-14 Nylock Nut

- Insert Frame Crossmembers into the Frame Side Rail, make sure the tabs on the crossmembers are fully engaged in the slots on the frame rail. Slide the Locking Keys into position.
- Place the Caster Brackets on the outside corners of the Frame Side Rails.
- Use the 7/16"-14 x 3.5" Hex Bolts on the crossmembers with the Caster Brackets, and use the 7/16"-14 X 3.25" Hex Bolts on the remaining crossmembers.
- **Note: If using the Drip Pan add-on, complete the Side Drip Tray Brackets step simultaneously.**

Note:
Make sure all crossmember
tabs are fitted into frame rail
slots before tightening bolts



Note:
Locking Key should be slid
in once the crossmember
is seated



Assembly Instructions:

Step 2: Attaching the opposing Frame Side Rail

Required Components:

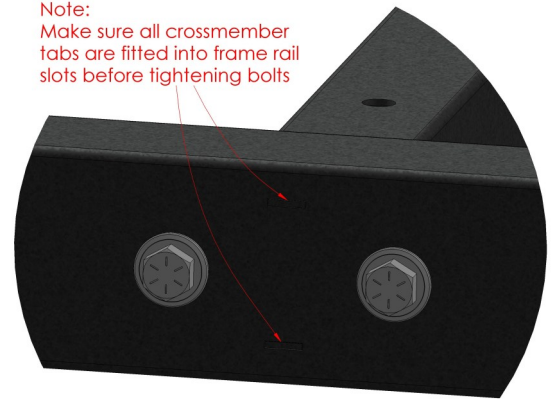
- 1x Frame Side Rail
- 2x Caster Bracket
- 4x Locking Key

Required Hardware:

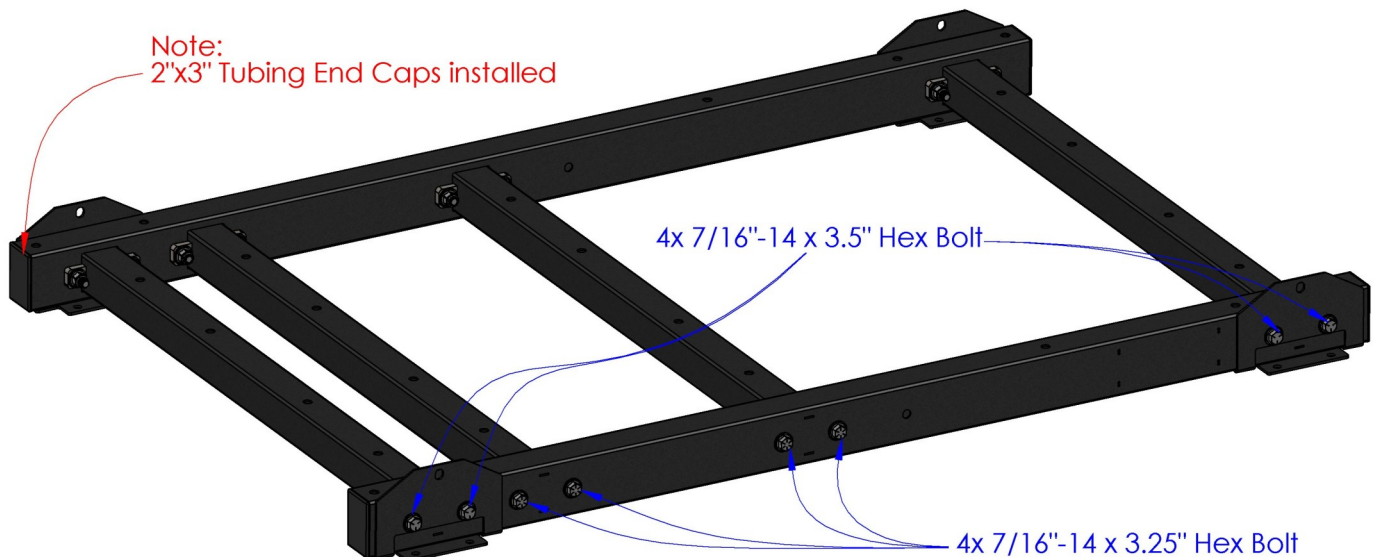
- 4x 7/16"-14 x 3.5" Hex Bolt
- 4x 7/16"-14 x 3.25" Hex Bolt
- 16x 7/16" Flat Washer
- 8x 7/16"-14 Nylock Nut
- 2"x3" Tubing End Cap

- Insert the Frame Side Rail into the Frame Crossmembers from the previous step, make sure the tabs on the crossmembers are fully engaged in the slots on the frame rail. Slide the Locking Keys into position.
- Place the Caster Brackets on the corners of the Frame Side Rails.
- Use the 7/16"-14 X 3.5" Hex Bolts on the crossmembers with the Caster Brackets, and use the 7/16"-14 X 3.25" Hex Bolts on the remaining crossmembers.
- **Note: If using the Drip Pan add-on, complete the Side Drip Tray Brackets step simultaneously.**
- Install the 2"x3" Tubing End Caps on the ends of the Frame Side Rails.

Note:
Make sure all crossmember
tabs are fitted into frame rail
slots before tightening bolts



Note:
2"x3" Tubing End Caps installed

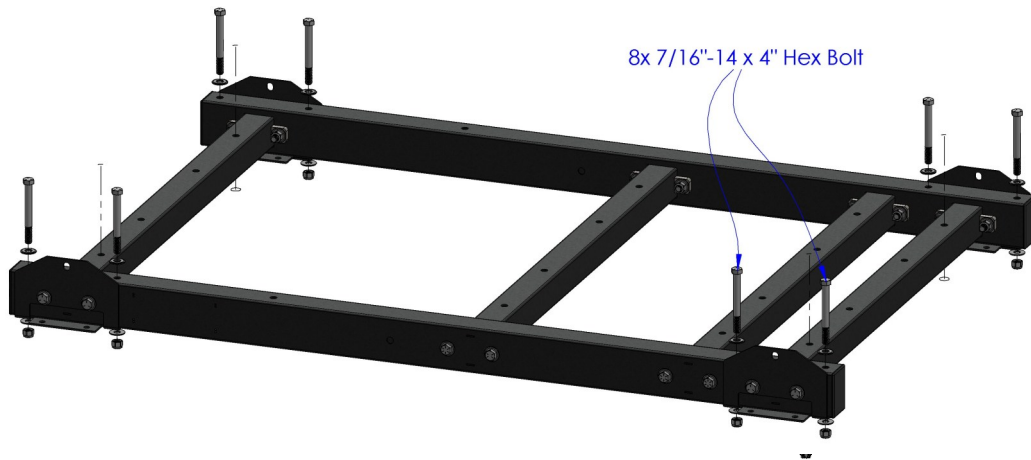


Assembly Instructions:

Step 3: Attaching Frame Crossmembers to the Frame Side Rails

Required Hardware:

- 8x 7/16"-14 x 4" Hex Bolt
- 16x 7/16" Flat Washer
- 8x 7/16"-14 Nylock Nut
- Use the 7/16"-14 X 4" Hex Bolts to attach the Caster Brackets to the Frame Side Rails.
- After this step, you can torque all bolts.
- **Note: If using any Fuel System add-on, complete the Fuel & Battery Tray mounting step simultaneously.**



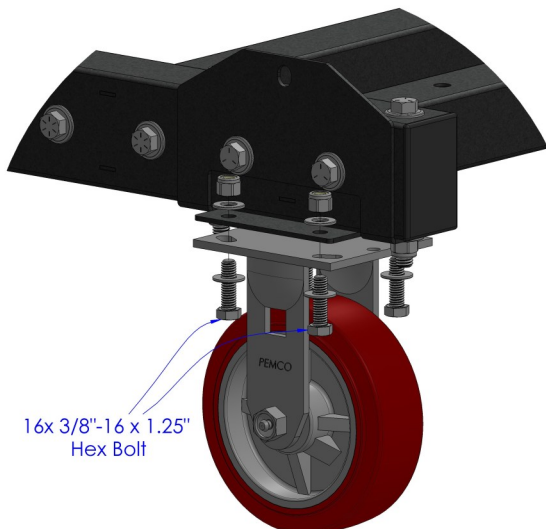
Step 4: Attaching Casters to the Assembly

Required Components:

- 2x Solid Caster, 6"
- 2x Swivel Caster, 6" w/ Brake

Required Hardware:

- 16x 3/8"-16 x 1.25" Hex Bolt
- 16x 3/8"-16 Nylock Nut
- 32x 3/8" Flat Washer



- Use the 3/8"-16 X 1.25" Hex Bolts to attach the casters to the Assembly. Make sure the swivel casters are on the front side of the assembly.



Assembly Instructions:

Step 5: Attaching the Radiator Support Tube onto Caster Bracket

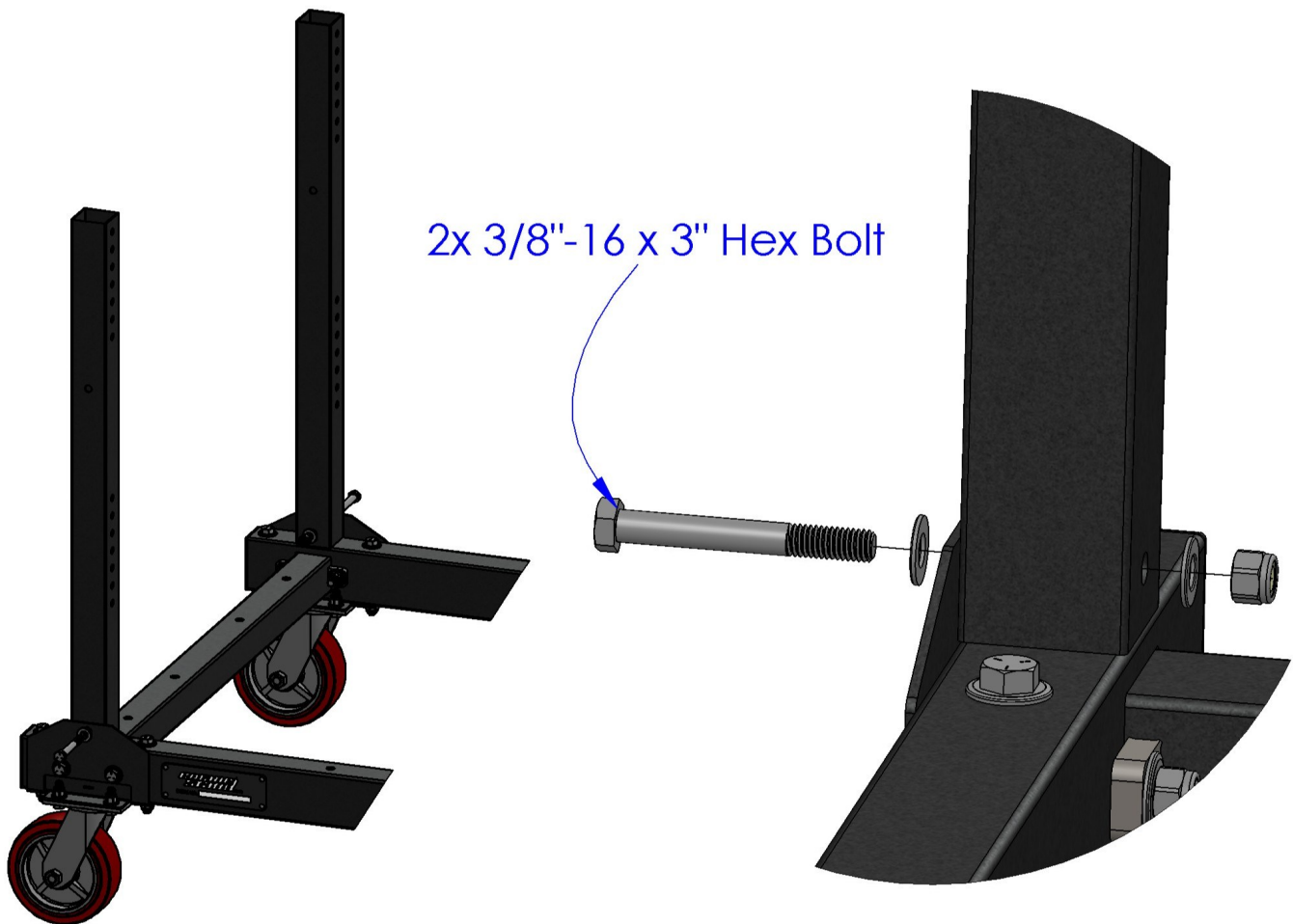
Required Components:

- 2x Radiator Support Tube

Required Hardware:

- 2x 3/8"-16 x 3" Hex Bolt
- 2x 3/8"-16 Nylock Nut
- 4x 3/8" Flat Washer

- Use the 3/8"-16 X 3" Hex Bolts to attach the Radiator Support Tubes to the Caster Brackets.



Assembly Instructions:

Step 6: Attaching the Radiator Support Crossmembers to the Radiator Support Tubes

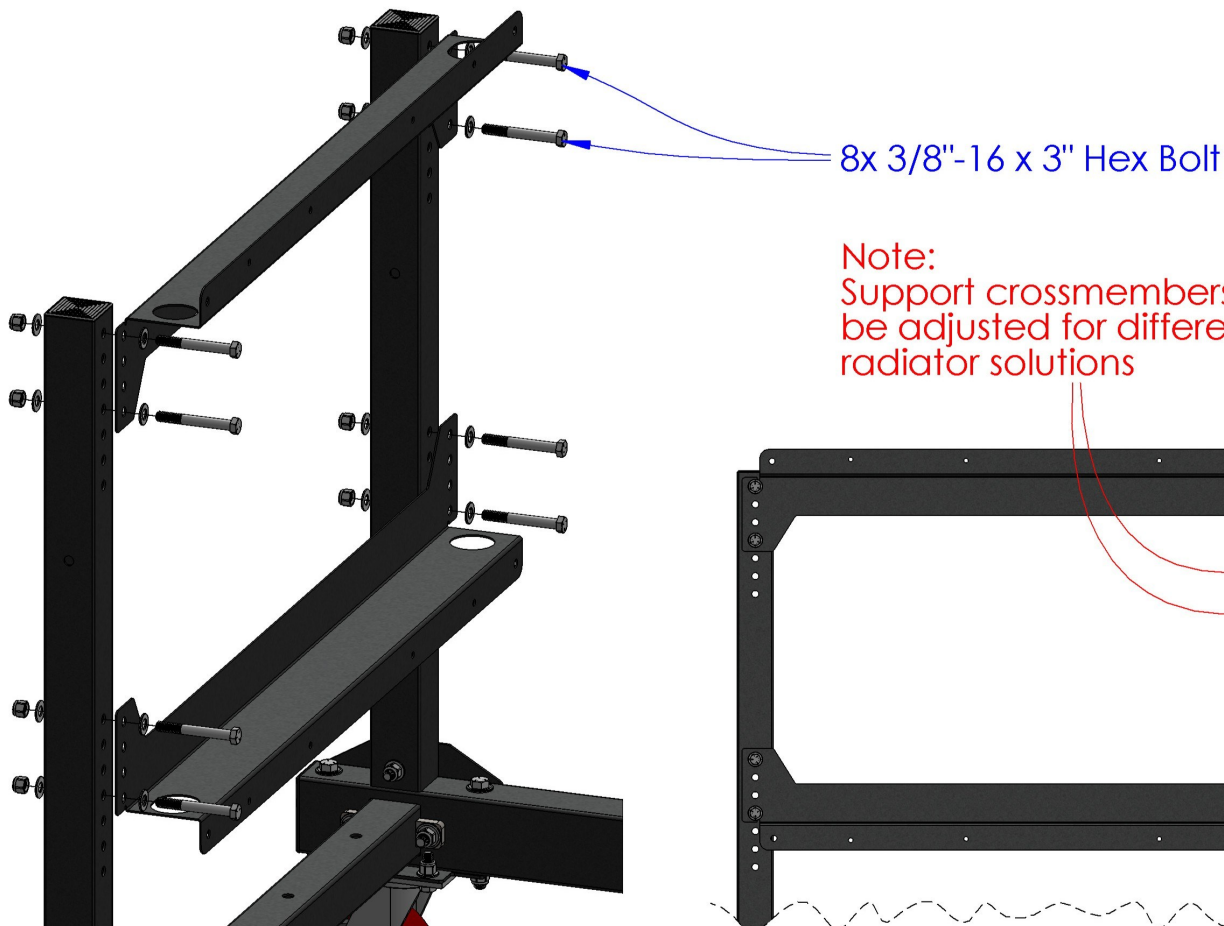
Required Components:

- 2x Radiator Support Crossmember
- 2" x 2" Tubing End Cap

Required Hardware:

- 8x 3/8"-16 x 3" Hex Bolt
- 16x 3/8" Flat Washer
- 8x 3/8"-16 Nylock Nut

- Use the 3/8"-16 X 3" Hex Bolts to attach the Radiator Support Crossmembers to the Radiator Support Tubes.
- **Note: If using the Throttle add-on, complete the Throttle Bracket step simultaneously.**
- Install the 2" x 2" Tubing End Caps on the tops of the Radiator Support Tubes.



Assembly Instructions:

Step 7: Attaching the Radiator Support Struts to the Assembly

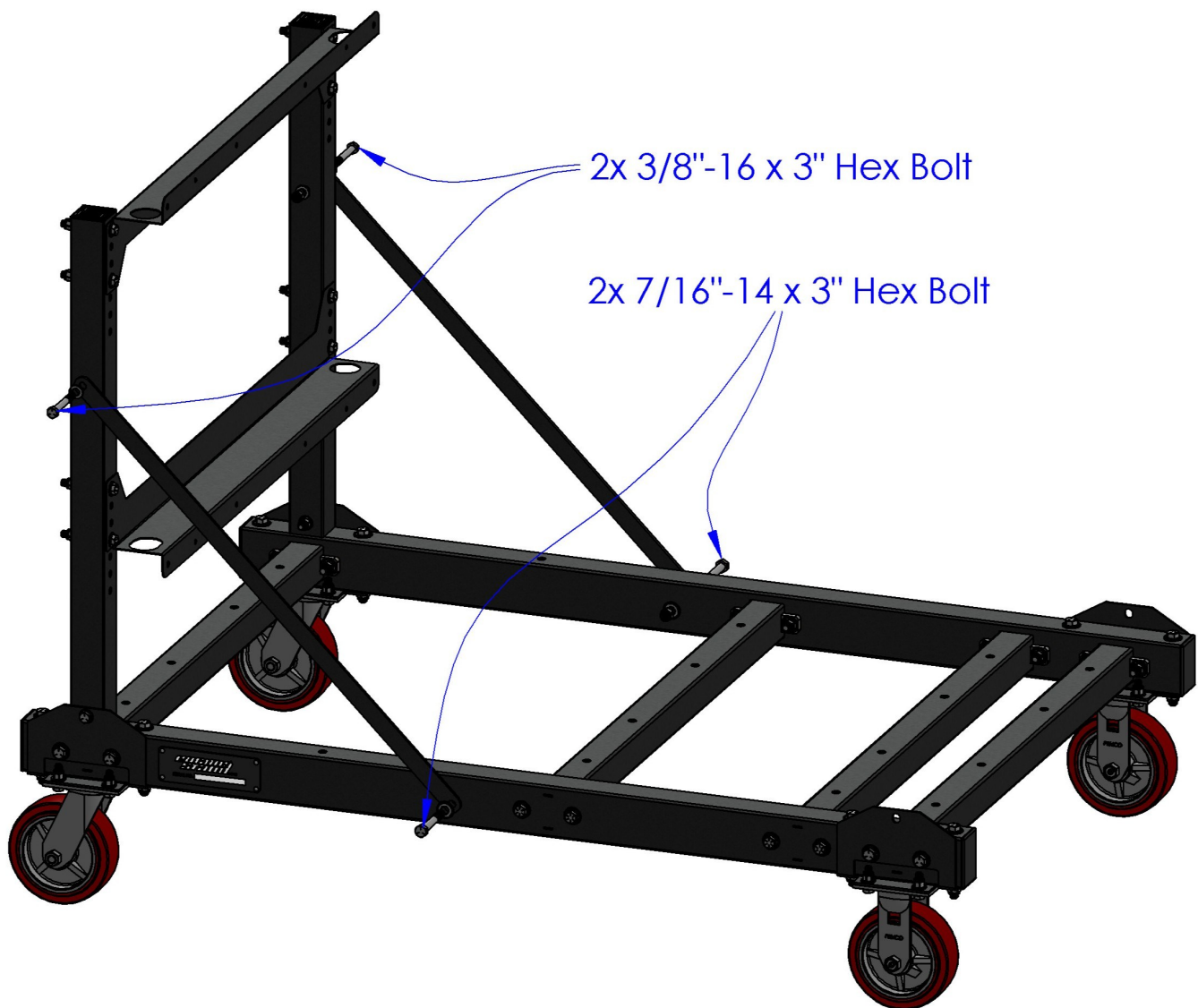
Required Components:

- 2x Radiator Support Strut

Required Hardware:

- 2x 7/16"-14 x 3" Hex Bolt
- 2x 3/8"-16 x 3" Hex Bolt
- 4x 3/8" Flat Washer
- 2x 7/16"-14 Nylock Nut
- 2x 3/8"-16 Nylock Nut

- Use the 3/8"-16 X 3" Hex Bolts to attach the Radiator Support Struts to the Radiator Support Tubes, and use the 7/16"-14 X 3" Hex Bolts to attach the Radiator Support Struts to the Frame Side Rails.



Assembly Instructions:

Step 8: Attaching the Front Engine Support to the Assembly

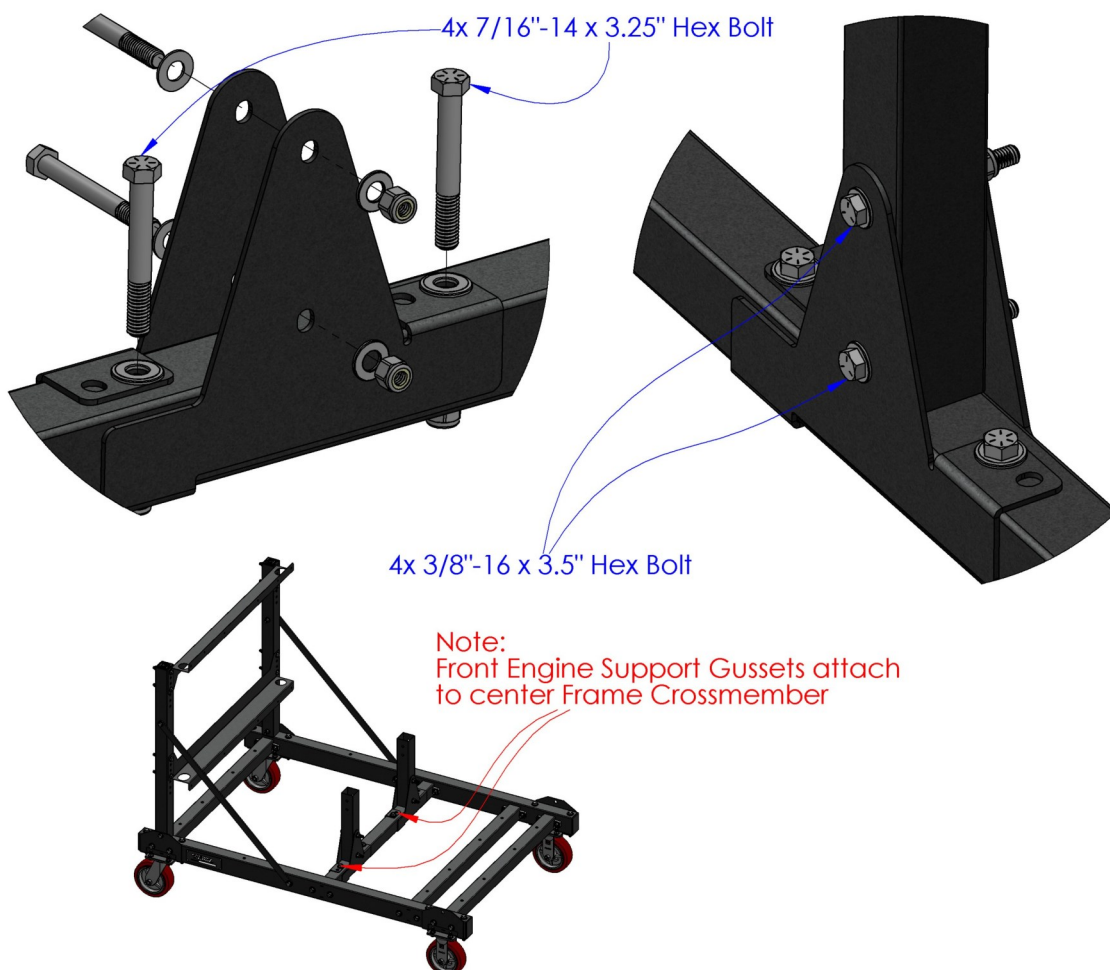
Required Components:

- 2x Front Engine Support Tube
- 4x Front Engine Support Gusset

Required Hardware:

- 4x 7/16"-14 x 3.25" Hex Bolt
- 4x 3/8"-16 x 3.5" Hex Bolt
- 8x 3/8" Flat Washer
- 4x 7/16"-14 Nylock Nut
- 4x 3/8"-16 Nylock Nut

- **Note: Assemble the front engine supports in the outermost location on the stand.**
- Use the 7/16"-14 X 3.25" fasteners to attach the Front Engine Support Gussets to the Frame Crossmembers.
- Then, use the 3/8"-16 X 3.5" Hex Bolts to attach the Front Engine Support Tubes to the Front Engine Support Gussets.



Assembly Instructions:

Step 9: Attaching the Rear Engine Mount to the Assembly

Required Components:

- 1x Rear Engine Mount Bracket

Required Hardware:

- 4x 7/16"-14 x 3" Hex Bolt
- 4x 7/16"-14 Nylock Nut
- 8x 7/16" Flat Washer

- Use the 7/16"-14 X 3" Hex Bolts to attach the Rear Engine Mount Bracket to the Frame Crossmembers.
- After this step, you can torque all remaining bolts.

4x 7/16"-14 x 3" Hex Bolt

