



# FH-440 Case Magnum Tier 4B Mid Frame Suspended Axle Undercarriage Installation Instructions

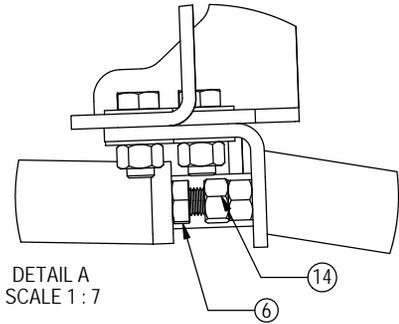
## Caution:

- Always use precaution when working around any equipment.
- Always wear safety glasses.
- Follow tractor manufacturer's safety guidelines when installing this product.
  1. Read all instructions prior to installation.
  2. Remove weights and weight bracket from front of tractor if necessary.
  3. Install 2 - 1" x 3" bolts (PN: 16-20562) and 2 - 1" nuts (PN: 70-20599) on the end of the undercarriage.
  4. Turn the 1" bolts in for installation. The bolts will be adjusted after the push pole is installed. See the attached diagram for proper installation of the bolts and nuts.
  5. Position the undercarriage (U/C) under the tractor and center with the frame of the tractor.
  6. Lift the U/C until the holes on the tractor line up with the holes on the U/C.
  7. At the front of the tractor, use 10 - 20mm x 70mm bolts (PN: 16-1876) with a 3/4" SAE flat washer (PN: 57-20757) on each bolt to attach the U/C to the front of the tractor. Tighten finger tight. See the attached diagram for any clarification.

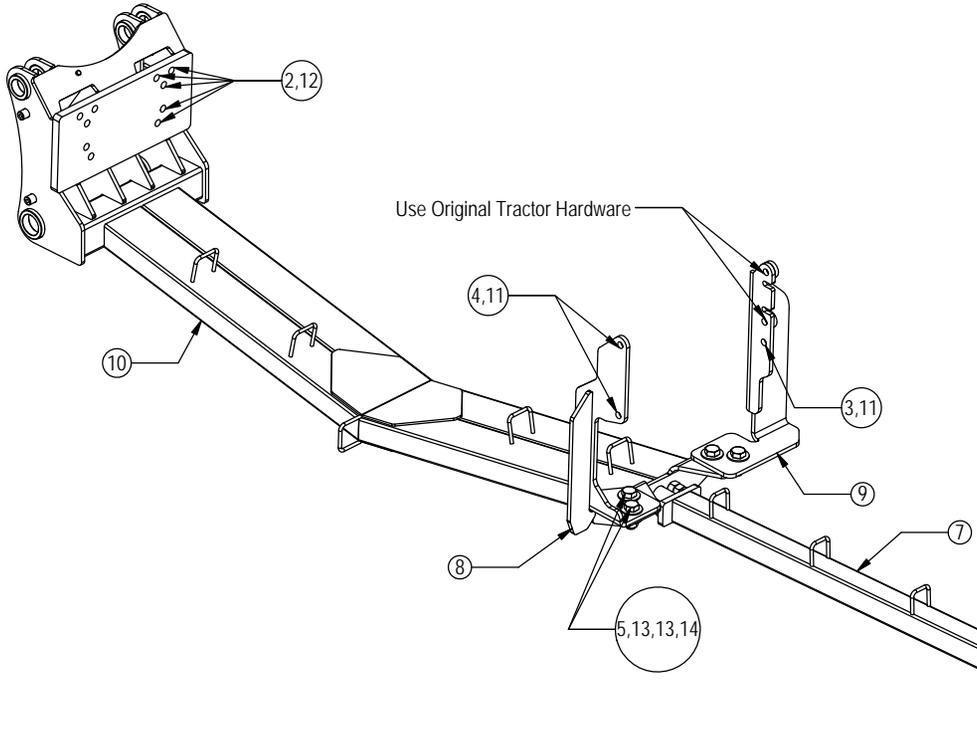
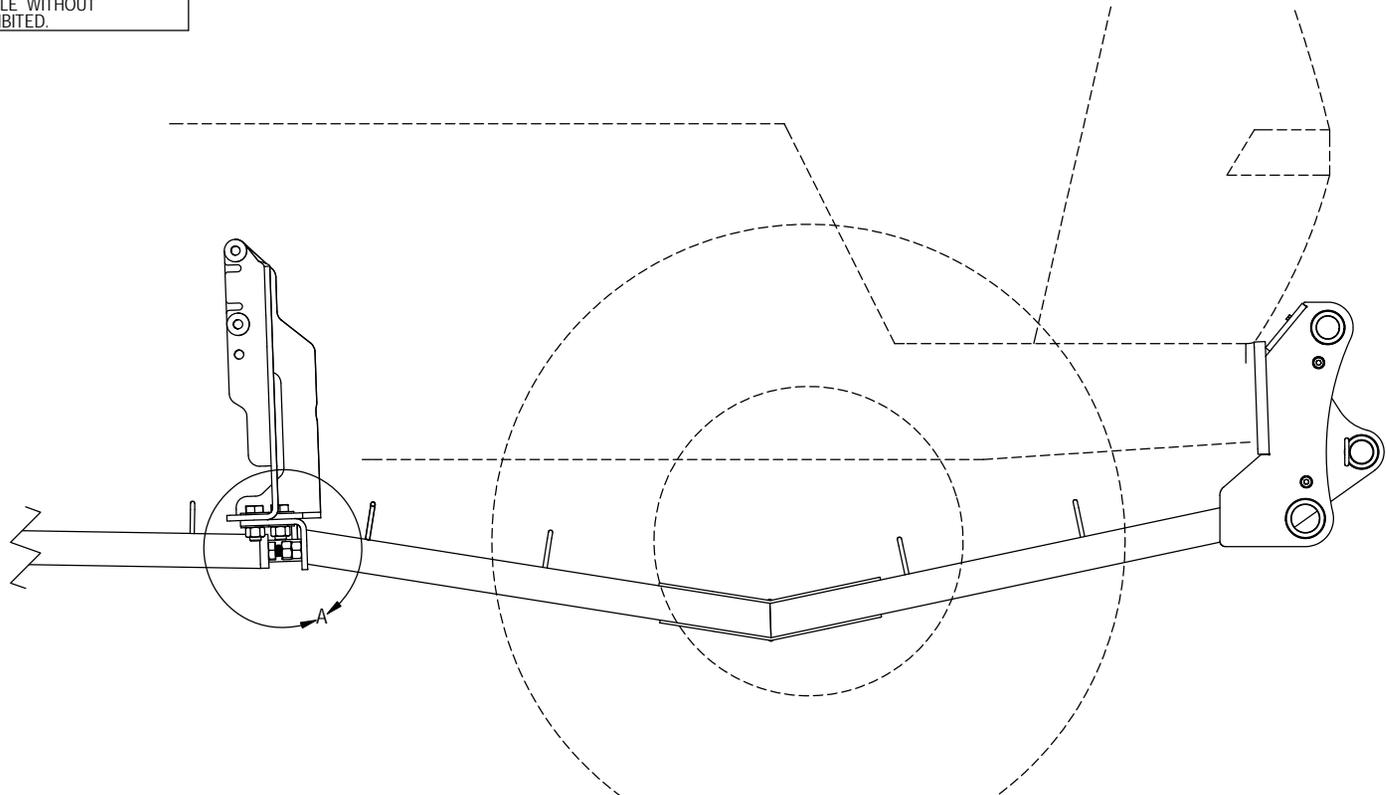
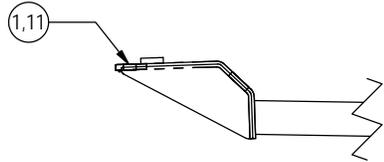
**Note: If a bracket is located on the left side of the tractor where the left side bracket will be attached, remove 2 of the bolts and discard. Bolt the left side bracket with the original bracket in Step #8.**
  8. Use 2 - 20mm x 60mm bolts (PN: 16-2487) with a 3/4" flat washer (PN: 57-20747) on each bolt in the holes of the left side bracket (PN: 44-17625) to attach the left bracket to the tractor frame.
  9. Remove the ground boss from the right side of the tractor. The boss will be reinstalled in Step #11.
  10. Remove the 2 bolts and the spacer from the bracket on the right side of the tractor. Slide the right bracket (PN: 44-17634) in place of the removed spacer and attach with original hardware.
  11. Use 1 - 20mm x 100mm bolt (PN: 16-1877) with the ground boss and a 3/4" flat washer (PN: 57-20747) through the bottom hole of the right side bracket to attach the right rail to the tractor frame. See the attached diagram for any clarification.
  12. Attach the left and right side brackets to the undercarriage with 2 - 1" bolts (PN: 16-20560), 4 - 1" heavy duty flat washers (PN: 57-20819), and 2 - 1" nuts (PN: 70-20599) for each side.
  13. Once all bolts are installed, torque the front 20mm bolts to 432 ft-lbs.
  14. Torque the 20mm bolts on the side rails to 432 ft-lbs.
  15. Torque the 1" bolts attaching the side brackets to the U/C to 903 ft-lbs.
  16. Carefully remove the front 2 bolts holding the drawbar bracket to the tractor rear axle housing. Discard the removed bolts

- 17.** Position the push pole (PN: 17-17635) under the tractor. See the attached diagram for the correct orientation of the push pole
- 18.** Slide the push pole onto the rod at the rear of the undercarriage.
- 19.** Lift the rear of the push pole up to the drawbar bracket. Support the rear of the push pole with a floor jack or block.
- 20.** Attach the rear of the push pole to the drawbar under the rear axle with 2 - 18mm bolts (PN: 16-1815080) and a 3/4" flat washer (PN: 57-20747) on each bolt. See attached diagram for clarification.
- 21.** Push the push pole back tight against the drawbar bracket.
- 22.** Torque the 18mm x 80mm bolts to 405 ft-lbs.
- 23.** Unscrew the two 1" x 3" bolts at the front of the push pole until they are tight against the push pole. Torque the 1" bolts to 90-95 ft-lbs.
- 24.** Tighten the nuts up tight against the push pole. Use the nuts to lock the bolts in place.
- 25.** After first 8 hours of use, re-torque all bolts.
- 26.** Check all fasteners regularly to ensure proper operation of equipment.

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DETAIL A  
SCALE 1 : 7



Use Original Tractor Hardware

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	16-1815080	18mm x 1.5mm x 80mm Metric Hex Bolt Gr 10.9
2	10	16-1876	20mm x 2.5mm x 70mm Metric Hex Bolt Gr 10.9
3	1	16-1877	20mm x 2.5mm x 100mm Metric Hex Bolt Gr 10.9
4	2	16-2487	20mm x 2.5mm x 60mm Metric Hex Bolt Gr 10.9
5	4	16-20560	1" x 2-1/2" Hex Bolt Gr 8 NC
6	2	16-20562	1" x 3" Hex Bolt Gr 8 NC
7	1	17-17635	FH-440 Case Magnum Mid Frame (Tier 3, 4A & 4B) Push Pole
8	1	44-17625	FH-440 Case Magnum Tier 3, Tier 4A/B Mid Frame Side Bracket, Left
9	1	44-17634	FH-440 Case Magnum Tier 3, Tier 4A/B Mid Frame Side Bracket, Right
10	1	54-18320	FH-440 Case Magnum Tier 3, Tier 4A/B Mid Frame Susp. Axle UC (2.0)
11	5	57-20747	3/4" Flat Washer
12	10	57-20757	3/4" SAE Hardened Flat Washer - 1-1/2" OD
13	8	57-20819	1" Flat Washer Heavy Duty Gr 8 (USS)
14	6	70-20599	1" Hex Nut Gr 8 NC



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TITLE: FH-440 Magnum T4B  
Mid Frame Suspended Axle

Date: 3/25/2015 DWG. NO.: 18825-A