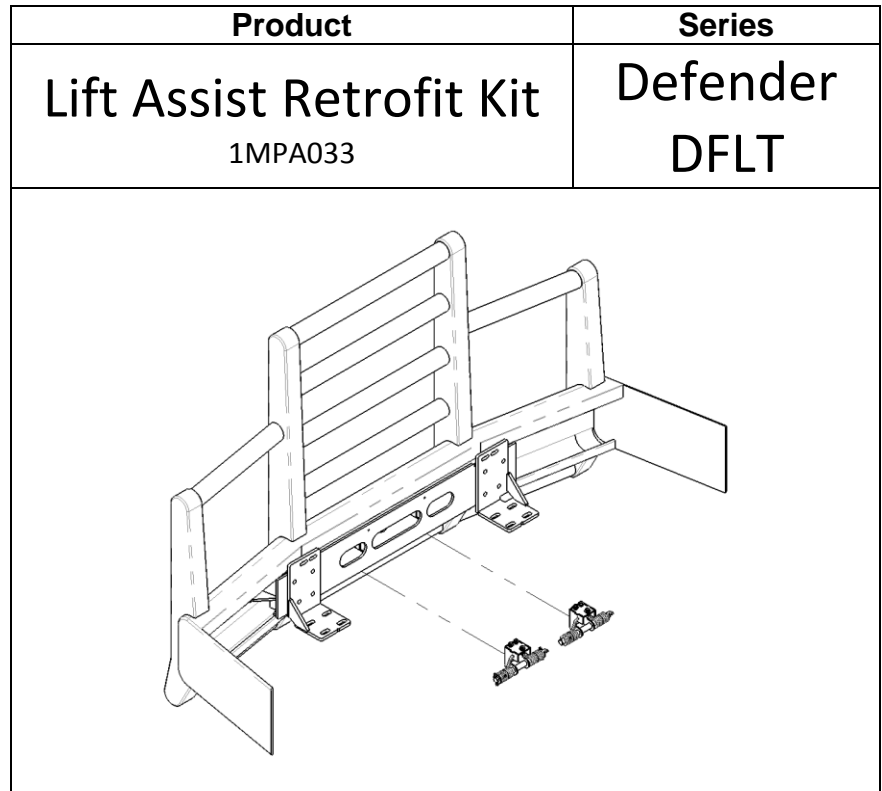


Thank you for choosing HERD!

For assistance call
1-888-543-4373
www.HERD.com



Important

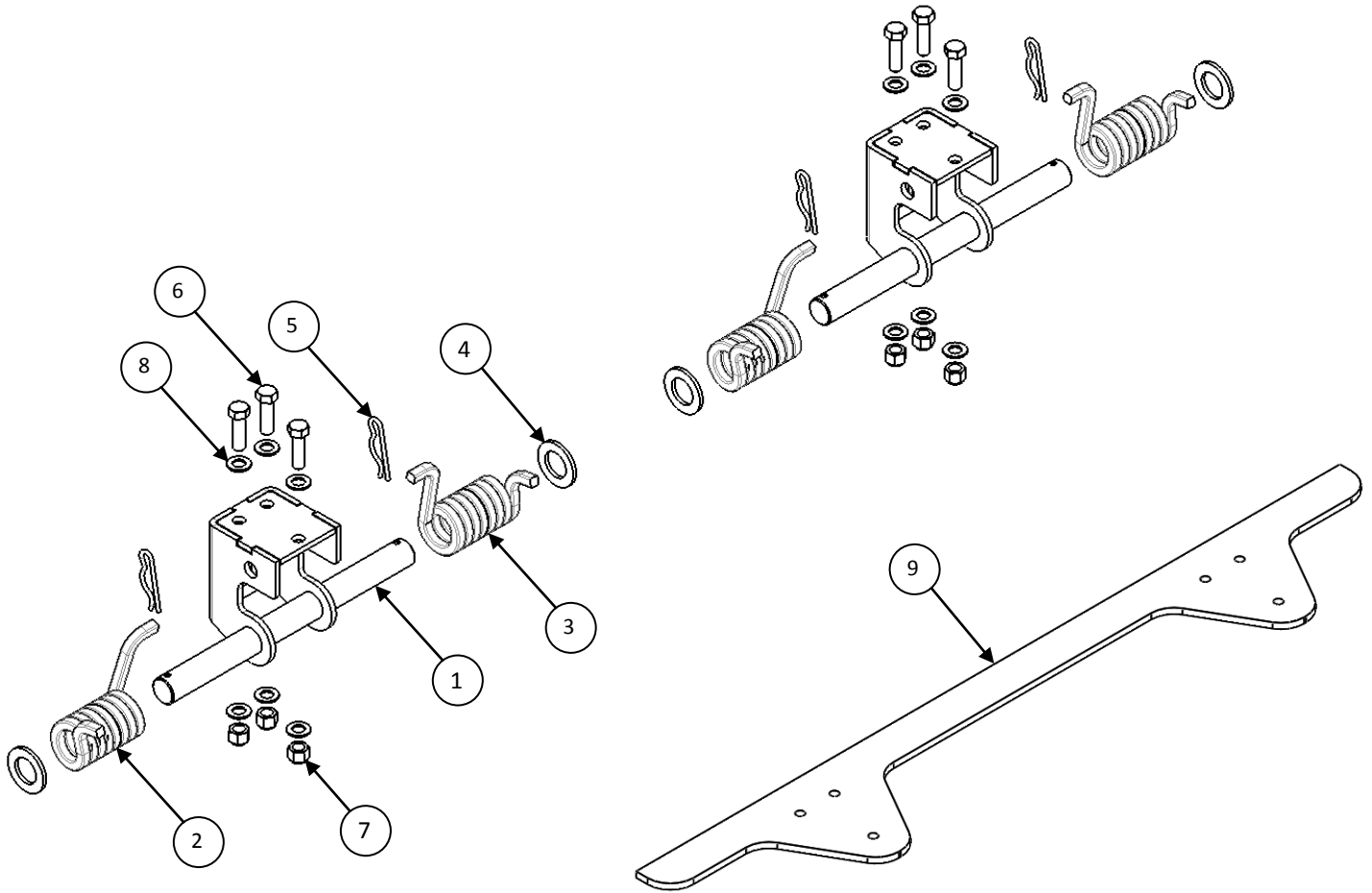
- Herd Bumpers are vehicle "Make & Model" specific. Use of a bumper on a vehicle other than the model it was designed for will constitute improper use of the product and may void warranty.
- Unless otherwise specified, Grade 8 or Class 10.9 hardware is to be used. For the purposes of these instructions, OE hardware means the truck's original factory hardware.
- For further detail of warranty coverage and warranty repair information visit www.HERD.com.

General Safety

- Take time to fully read the instructions before installing the Lift Assist mechanism.
- At all times exercise safe work shop practices, wear steel toe boots and safety glasses during installation.
- Parts and components of the Herd bumper can be heavy, handle with care to avoid injuries.
- Respect power tools and use them as advertized.

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Parts and tools referenced in this instruction



Parts and hardware included in retrofit kit (Part No. 1MPA033)

Item No	Part No	Description	Qty
1	1MPA023	Defender spring hanger subassembly	2
2	1-MC-TS-4-RH	157.5 right handed torsion spring	2
3	1-MC-TS-4-LH	157.5 left handed torsion spring	2
4	1HN014	Washer	4
5	HP 0.125X2.5	1/8" X 2-1/2" hair pin	4
6	HB 0.375-16x1.25 FT GR8	3/8"-16 X 1-1/4" hex bolt, fully threaded, grade 8	6
7	NLN 0.375-16 GR8	3/8"-16 nylon lock nut, grade 8	6
8	FW 0.375 GR8	3/8" flat washer, grade 8	12
9	H107-P001	Drill Template - Defender Lift Assist	1

Tools Required

Tool	Specification
Ratchet	-
Torque wrench	-
Hand drill	1/2" chuck
Socket	9/16" or 14 mm
Wrench	9/16" or 14 mm
Drill bit	1/4"
Drill bit	13/32" (.406")

Installation Procedure

1. Remove bumper from bracket by unfastening the hinge bolts, and remove bracket from truck.

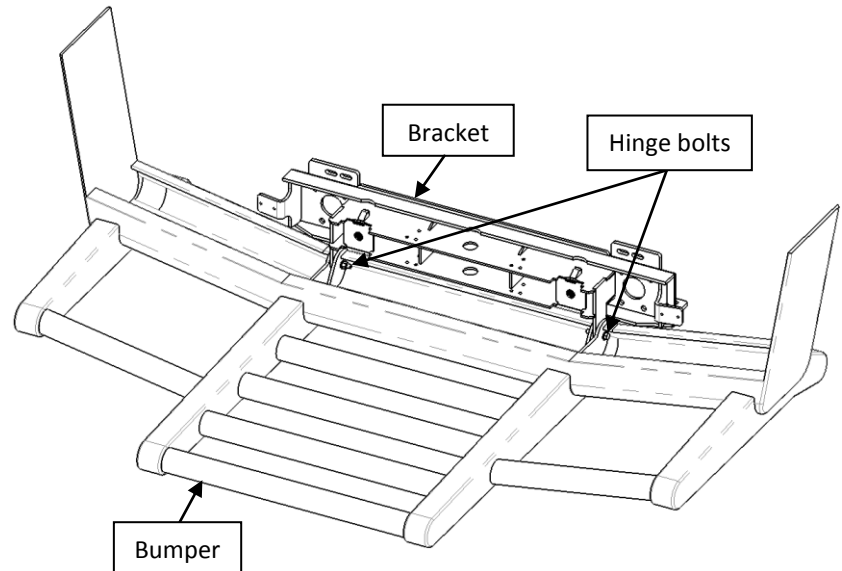


Figure 1 – Disassembly of bumper and bracket from truck.

2. Place bracket upside down on work bench and clamp drill template (Item 9). Ensure the three edges are flush as per figure 2.

Drill 1/4" (.250") pilot holes, 6 places. Remove drill template and drill 13/32" (.406") finish holes, 6 places. Holes must be drilled straight for proper alignment.

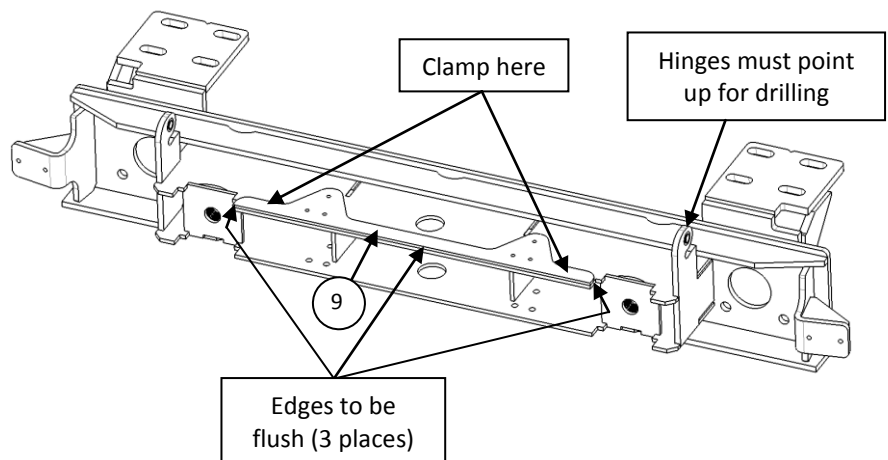


Figure 2 – Drill template.

3. Attach spring hanger subassemblies (Item 1) to mounting bracket as shown. Fully tighten bolts to 45 ft-lb.

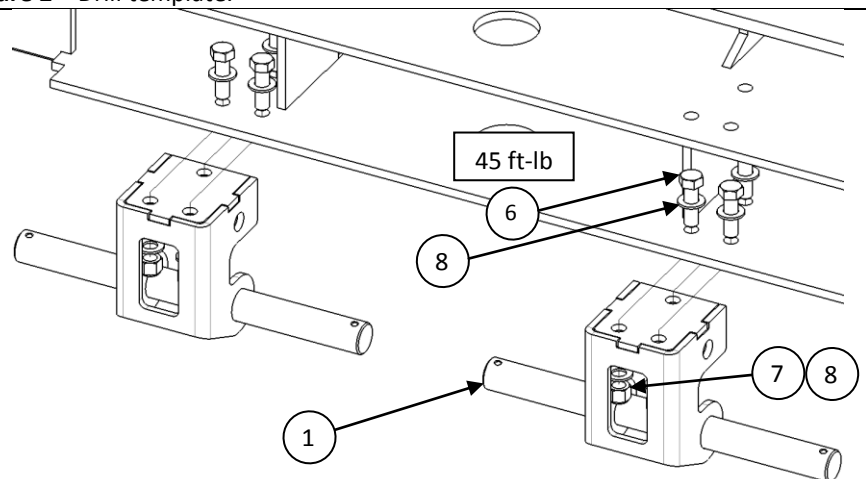


Figure 3 – Spring hanger subassembly installation.

Installation Procedure

- Attach bracket to truck. Attach bumper to bracket by reinstalling hinge bolts. Apply 100 ft-lb (135 Nm) torque to hinge bolts.

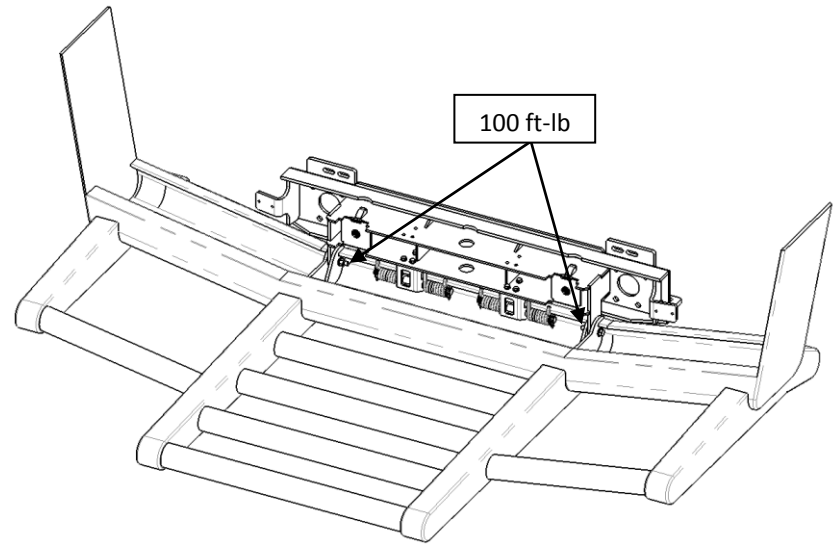


Figure 4 – Reassembly.

- With bumper open, feed torsion springs (Items 2 and 3) onto spring hanger shafts as shown. Do not slide springs all the way down the shaft. Ensure there is clearance so that spring arms will not collide with spring hanger mounts when closing bumper.

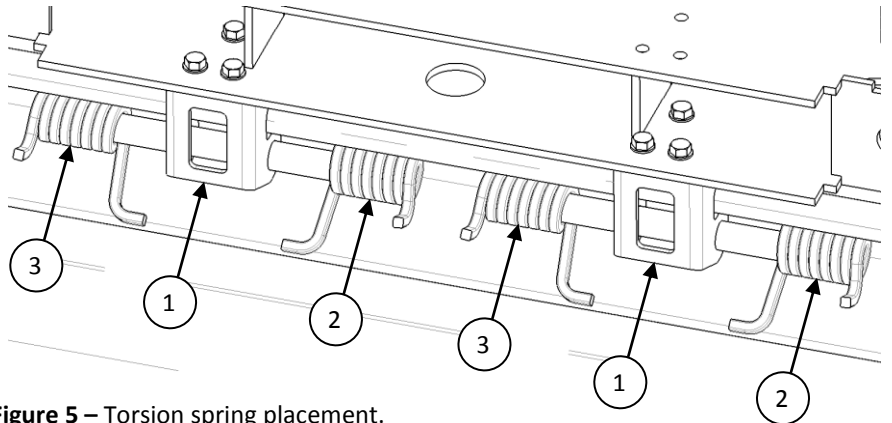


Figure 5 – Torsion spring placement.

- Close the bumper. When viewing from the back, rotate the springs into alignment with their corresponding retaining holes and insert spring arms into holes. Completely slide spring arms into holes until they stop. Do this for all four springs.

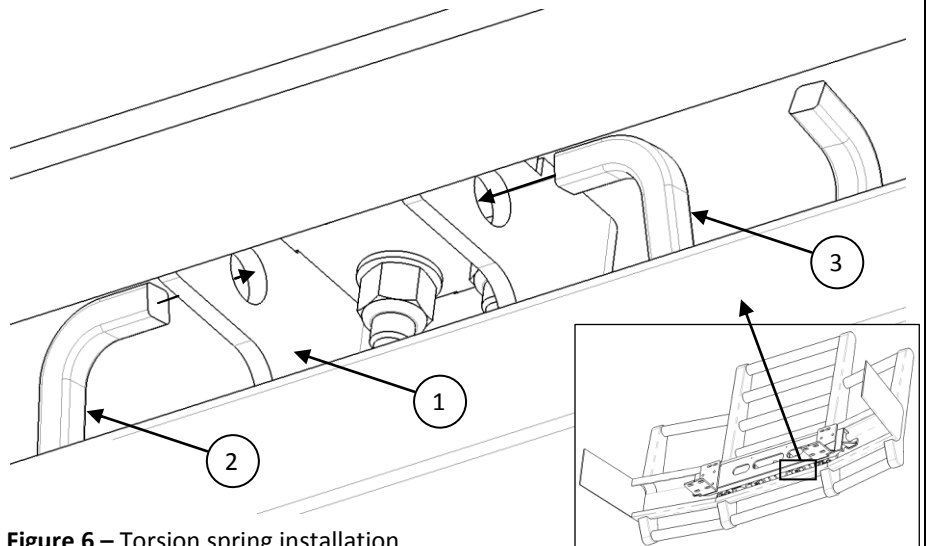


Figure 6 – Torsion spring installation.

Installation Procedure

7. Open the bumper. Install washers (Item 4) onto spring hanger shafts to retain springs in place.

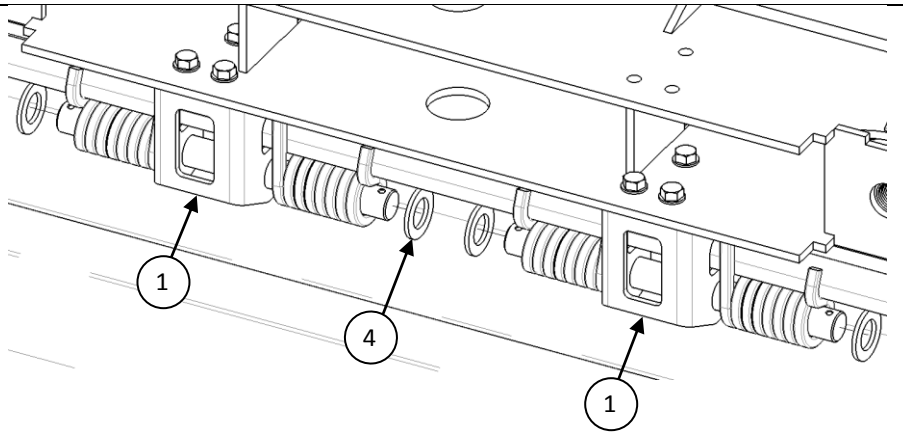


Figure 7 – Washer installation.

8. Insert hair pins (Item 5) through holes of spring hanger shafts to retain washers and springs. Close the bumper to ensure Lift Assist mechanism works as intended. Installation is complete.

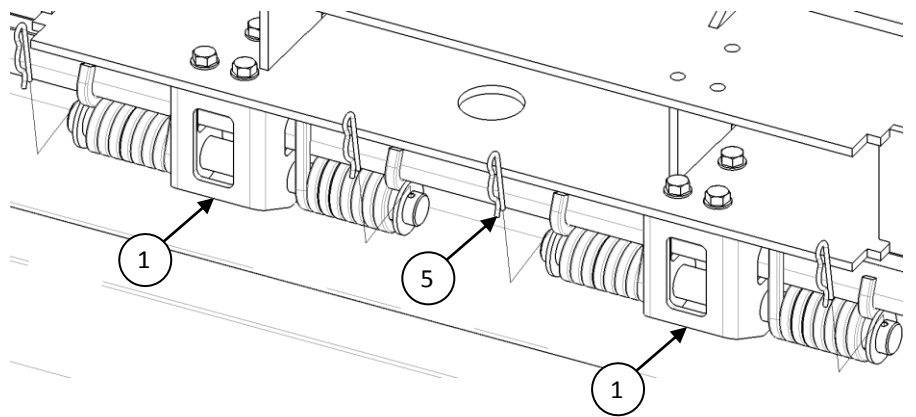


Figure 8 – Hair pin installation.