

## 3-Point Muffler Hanger Field Replacement Installation Guide

**SPECIAL REQUIREMENTS: Used on both Standard Cab\* & Crew Cab\***

**\*Installation steps may vary based on manufacturing date of the vehicle.**

TOOLS REQUIRED		ESTIMATED INSTALL TIME	RECOMMENDED SKILL LEVEL
11/16" Wrench	11/16" Socket and Ratchet	30 MINUTES	Intermediate
Pliers	10mm Socket		
Side Cutters	7/16" Socket		
7/16" Wrench	7/32" Allen Wrench		
9/16" Socket	9/16" Wrench		

Before you begin, check the contents of the kit against the parts list below. Immediately contact American Landmaster with any questions or discrepancies. American Landmaster cannot assume responsibility for any damage or injury resulting from incorrect installation of parts. American Landmaster suggests that accessory kits be installed by an authorized American Landmaster dealer or service center.

## !! WARNING !!

**Serious injury or death could occur!**

- Use proper personal protective equipment during installation of this kit. Use safety glasses.

## PARTS LIST FOR AMERICAN LANDMASTER KIT

### Muffler Hardware

- (2) 18330 – Muffler Spring      (3) 18329 – Rubber Muffler Hanger      (3) 19431 – Clevis Pin
- (3) 19432 – Bow Tie Cotter Pin      (1) 18331 - Bushing      (2) 19054 – Heat Shield Wrap Straps      (1) 18065 – Muffler
- (1) 2-50747 – Washer      (1) 19155 – E-Clip      (1) 19310 – 2PC Heat Shield Wrap

### Bolt-On Hanger Hardware

- (2) 2-50084 - 1/4"-20 x 3/4" Bolt      (2) 15106 – 1/4"-20 Lock Nut      (1) 17686 – Tube Clamp      (1) 2-50212 – 3/8" x 3.25" Bolt
- (1) 2-50010 – 3/8" Lock Nut      (1) X21054 – Bolt-on Muffler Hanger Bracket

Remove the bed and rear heat shield from the unit before starting removal or installation.

**WARNING:** Allow the vehicle to sit with the engine off for at least 45 minutes before starting any part of this installation. The exhaust system is very hot during and after the engine is running.

Reference American Landmaster instruction video 302 for installation instructions.

## Muffler Removal:

1. After removing the bed and the heat shield from the vehicle, use side cutters to cut off the heat wrap straps.



Figure 1.1: This figure shows the locations for the rear heat shield bolts.



Figure 1.2: This figure shows the straps to cut for the heat wrap removal.

2. Remove the heat wrap from the exhaust pipe and set aside.



Figure 1.3: This figure shows the heat wrap removed from the exhaust pipes.

3. Remove the bolts from the muffler hanger bracket using a 11/16" socket and wrench. Set the hardware off to the side.



Figure 1.4: This figure shows the bolts to remove to release the muffler.





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# INSTALLATION INSTRUCTIONS

4. Looking down from the top of the muffler, carefully grab the muffler and rotate it counter-clockwise so that the inside spring collapses and can be removed. Remove the inside spring and discard.

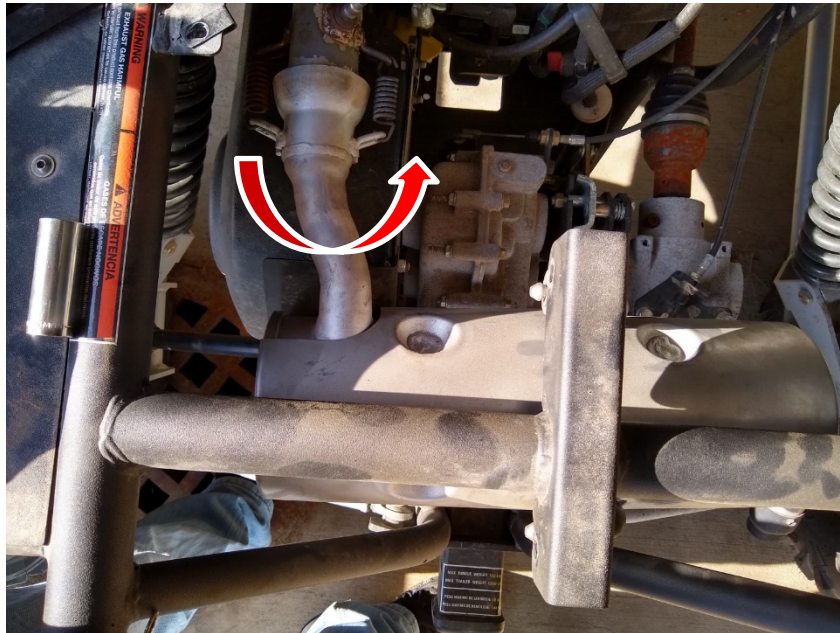


Figure 1.5: This figure shows the direction to rotate the muffler to release the inside spring.

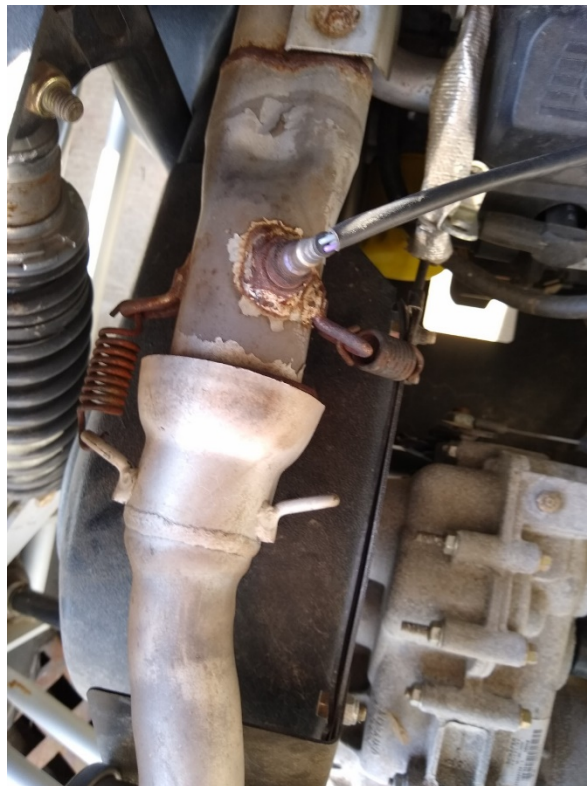


Figure 1.6: This figure shows the inside spring unclipped from the muffler.

5. Rotate the muffler clockwise as far as possible and remove the outside spring and discard. This may require the use of pliers.
6. Remove the muffler from the rear end of the unit by maneuvering it out towards the passenger side rear tire.

#### **Muffler Installation:**

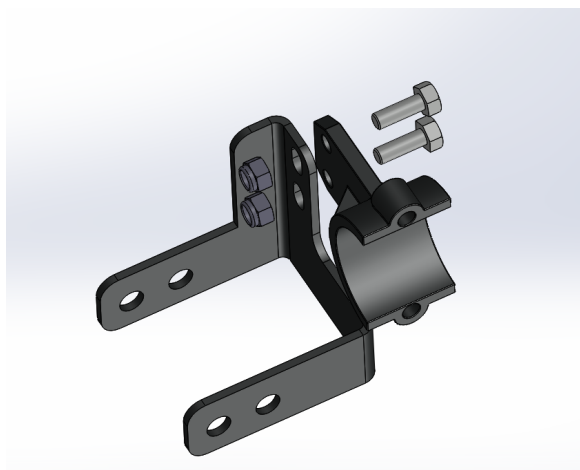
1. Assemble the new muffler with the rubber hangers attached to each hanger point.
2. Position the new spherical bushing on the exhaust pipe. Note the indexing dimple on the bushing and align with mark on header pipe
3. Slide the muffler into position starting from the passenger side rear tire.
4. Rotate the muffler clockwise as far as possible and install the new outside spring. This may require the use of pliers.
5. Rotate the muffler counter-clockwise so that the new inside spring can be installed.
6. Attach the rubber muffler hangers to the muffler hanger bracket using the pins. Secure the pins with the clips.

**Note:** For vehicles that have a third muffler hanger bracket mounted on the frame, attach the new muffler to this location. For vehicles that do not have the third muffler hanger location on the frame, complete the "Hanger Installation Instruction" section before moving forward.

7. Attach washer and e-clip to the rear-most muffler hanger to secure the rubber isolator.
8. Carefully replace the heat wrap on the muffler pipe.
9. Strap the heat wrap in place using the provided heat wrap straps. This will require the use of pliers. Once the strap is hand tight, take the pliers and curl the free end such that it further tightens the strap.
10. Reattach the heat shield bracket and the bed to the vehicle.

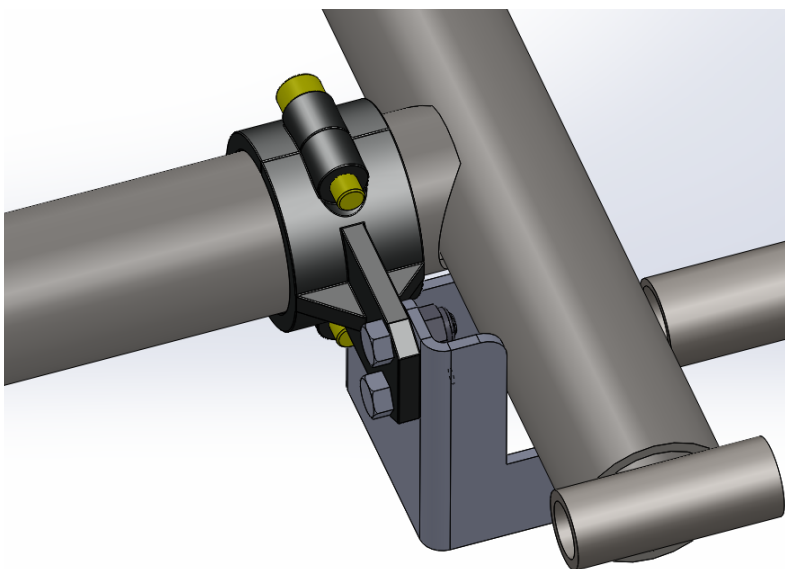
#### **Bolt-On Hanger Installation Instruction:**

1. Assemble the hanger bracket to the clamp with the 1/4"-20 x 3/4" bolts and the 1/4"-20 lock nuts using a 7/16" socket and wrench.



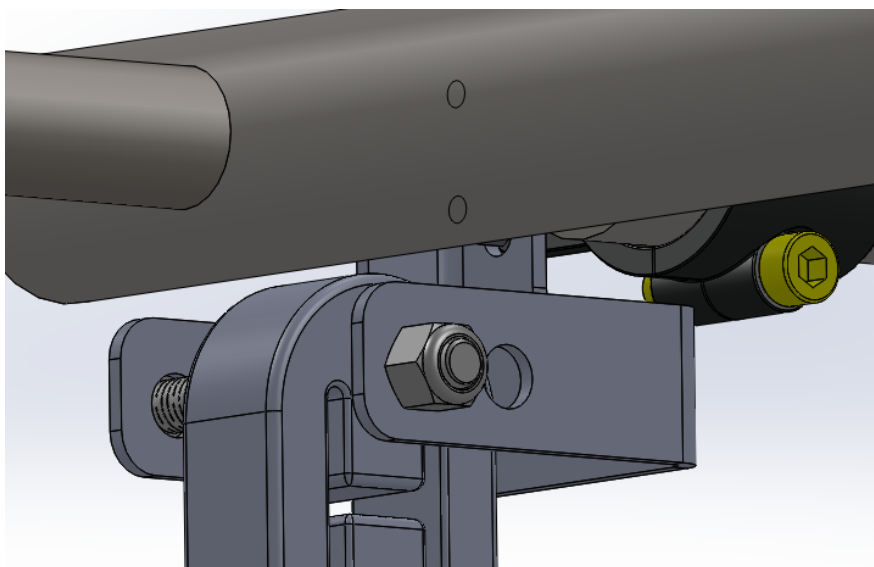
**Figure 3.1:** This figure shows the bracket, clamp, and hardware to be pre-assembled before installing on the vehicle.

2. Slide the clamp onto the rear cross tube of the vehicle and secure it to the other half of the clamp using the provided machine screws. This will require the use of a 7/36" Allen Wrench. Note that the clamp should be parallel with the tubes of the vehicle.



**Figure 3.2:** This figure shows the correct position and orientation of the clamp and bracket assembly when attached on the rear cross tube of the vehicle.

3. Use the 3/8" x 3.25" bolt to secure the third rubber hanger on the end of the muffler to the bracket. Secure the bolt with the 3/8" lock nut. This will require the use of the 9/16" socket and wrench.



**Figure 3.3:** This figure shows the rubber hanger fastened to the bracket using the appropriate 3/8" bolt and nut.

4. Adjust the bracket as needed by loosening the 1/4"-20 bolts. Tighten the nuts and bolts down once the desired position is achieved.