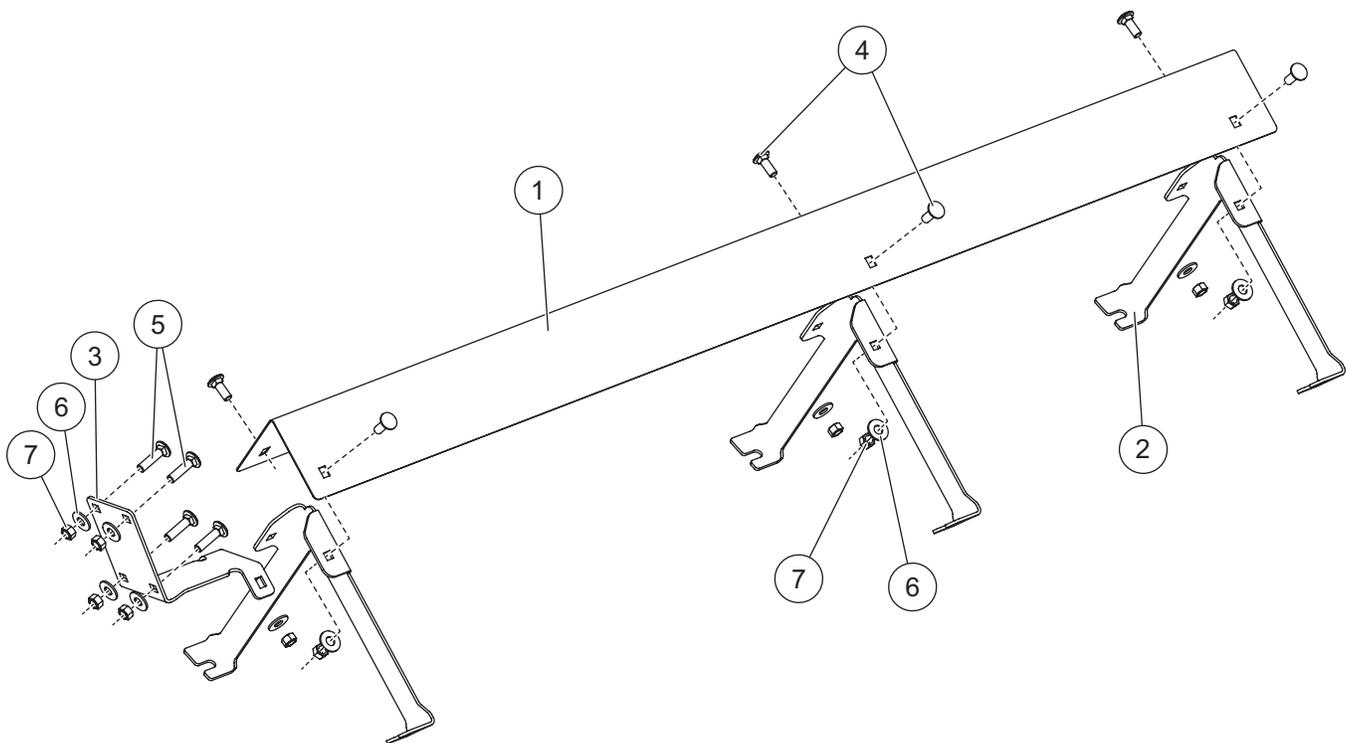


# Inverted V Kit

## Stainless Steel Hopper Spreaders

**PARTS LIST**



<b>93990 Inverted V Kit – S150</b>							
Item	Part	Qty	Description	Item	Part	Qty	Description
1		1	Inverted V Panel – Short	3		1	Bracket – Inverted V
2		3	Inverted V Leg – Short	ns	88911	1	Bolt Bag
<b>93995 Inverted V Kit – S220, S300, S400, S500</b>							
Item	Part	Qty	Description	Item	Part	Qty	Description
ns		1	Inverted V – Long	ns		1	Bracket – Inverted V
ns		3	Inverted V Leg – Long	ns		1	Bracket – Inverted V
ns		1	Bracket – Inverted V	ns	88911	1	Bolt Bag
<b>88911 Bolt Bag</b>							
4		6	3/8-16 x 1 Carriage Bolt SS	6		10	3/8 Flat Washer Type A Wide SS
5		4	3/8-16 x 1-1/2 Carriage Bolt SS	7		10	3/8-16 Hex Locknut GB SS
ns = not shown		SS = Stainless Steel			G = Grade		

## INSTALLATION INSTRUCTIONS

**⚠ WARNING**

Do not exceed GVWR or GAWR ratings as found on the driver-side vehicle door cornerpost.

**⚠ CAUTION**

Read this document before installing the inverted V kit.

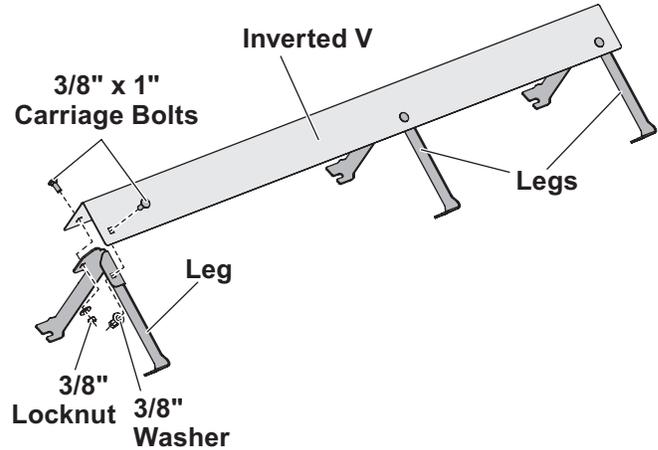
**⚠ CAUTION**

Use standard methods and practices when attaching spreader and installing accessories, including proper personal protective safety equipment.

**NOTE:** Apply anti-seize lubricant to all hardware to prevent galling.

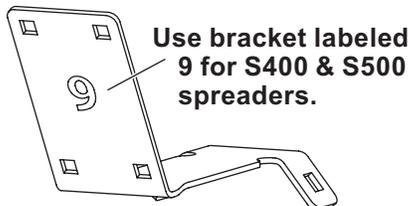
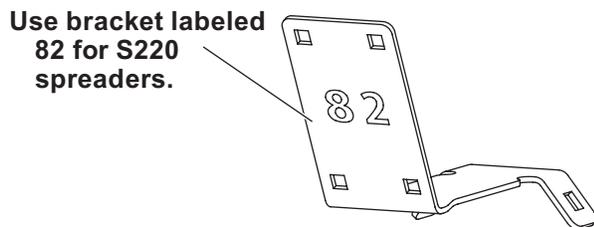
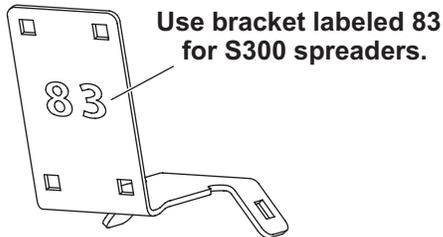
1. Park the vehicle on a smooth, level, hard surface, such as concrete. Turn the vehicle ignition to the "OFF" position and remove the key.
2. Empty all material from the hopper.
3. Remove and retain the linchpins that secure the top screen. Remove the top screens and set aside.

4. Position the inverted V legs so that the bends face the direction shown below. Using the supplied 3/8" x 1" carriage bolts, 3/8" washers, and 3/8" locknuts, fasten each leg to the inverted V.



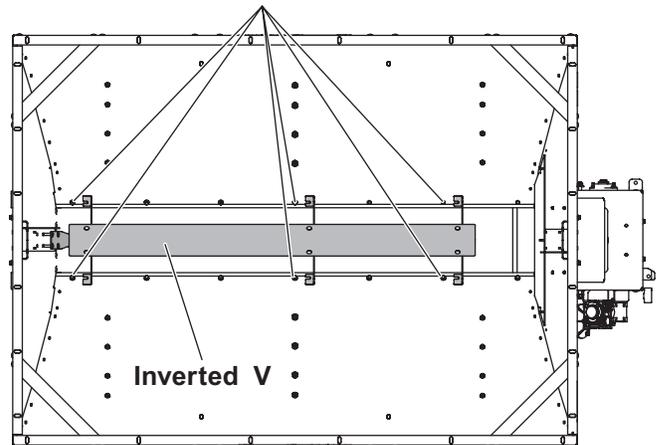
5. Attach the end-cap bracket after the end leg is installed. For S220, S300, S400 and S500 models, use the matching numbered end-cap bracket:

- For S220 spreaders, use bracket labeled 82,
- For S300 spreaders, use bracket labeled 83,
- For S400 & S500 spreaders, use bracket labeled 9.

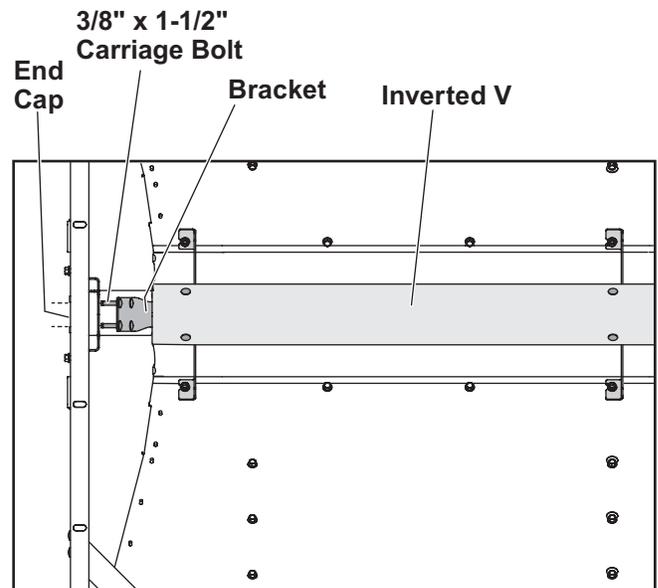


6. Loosen the appropriate bolts approximately 1/4" providing clearance to slide the assembled inverted V into position. Take care not to loosen the bolts so much that the assembly loses alignment on the body panels.

**Align inverted V w/the loosened bolts in hopper and slide the inverted V into place.**



7. Using the supplied 3/8" x 1-1/2" carriage bolts, 3/8" washers, and 3/8" locknuts, tighten the bracket to the end cap. Make sure that the carriage bolts are facing outward through the end cap to allow attachment of a vibrator to the outside of the panel.



8. Tighten all 3/8" fasteners to 20 ft-lb.

Copyright © 2023 Douglas Dynamics, LLC. All rights reserved. This material may not be reproduced or copied, in whole or in part, in any printed, mechanical, electronic, film, or other distribution and storage media, without the written consent of the company. Authorization to photocopy items for internal or personal use by the company's outlets or spreader owner is granted.

The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for spreaders. Do not exceed vehicle ratings with a spreader. The company offers a limited warranty for all spreaders and accessories. See separately printed page for this important information.

**Printed in U.S.A.**

---