

SNO-WAY®

SNOW & ICE CONTROL EQUIPMENT

ASSEMBLY & INSTALLATION INSTRUCTIONS

**VEHICLE MOUNT KIT 99101481
AND
VEHICLE CENTER MEMBER 99100890**

**TO FIT
2022 & Later TOYOTA TUNDRA**

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1. THINK SAFETY, ALWAYS WEAR SAFETY GLASSES WHEN PERFORMING THE OPERATIONS PRESCRIBED IN THESE INSTRUCTIONS
2. READ ALL INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION
3. BEFORE BEGINNING WORK MAKE SURE TO SET PARKING BRAKE AND CHOCK WHEELS



MINIMUM VEHICLE RECOMMENDATIONS

Heavy Duty Alternator
 Heavy Duty Battery
 Heavy Duty Suspension

NOTE: On some vehicles it may be necessary to use a form of load booster to decrease the vehicle's front suspension sag with the snow plow in place. This can be accomplished with the use of supplementary air bags, booster springs, or similar load boosting devices. Since there are different load boosting devices available, it will up to the customer/end user to decide and purchase the product to suit the application, and not the responsibility of Sno-Way International, Inc.

ASSEMBLY TOOLS NEEDED

Drill Bits	17/32"
Impact Sockets	7/16" - 1-3/8"
	10mm - 18mm
Wrenches	7/16" - 1-3/8"
	10mm - 18mm
Torque Wrench	
Rat Tail Pry Bar	

INSTALLATION NOTES

1. Unless otherwise specified, mount all Vehicle Mount Kit Components to vehicle before tightening any hardware.
2. It is recommended that LOCTITE®, or similar thread locking product, be used on ALL mounting hardware (i.e. Nuts, Cap Screws, Bolts, etc.).
3. Vehicle should be parked on a level surface with a normal vehicle load on the FRONT suspension.
4. Items in parentheses () refer to quantity required for this step. Items in parentheses with a pound sign (#) indicate the part number as found in the parts list on the last page of this document.
 Example: (2) 1/2" Lock Washers (#9).
5. It maybe necessary to relocate license plate holder. Check state and local laws for placement, if needed.

2. Remove the (2) center screws from the front of the spoiler and let the spoiler rotate down. (See Figure 2.)

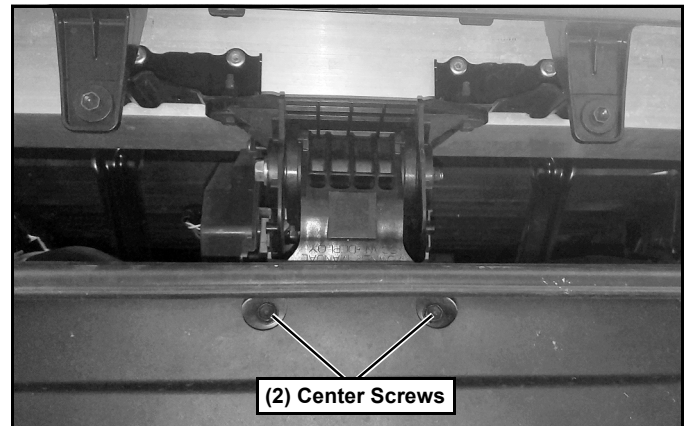


Figure 2

MOUNTING INSTRUCTIONS

1. Review if the vehicle is equipped with an active front spoiler behind the bumper. (See Figure 1.) If not, skip to step 4.

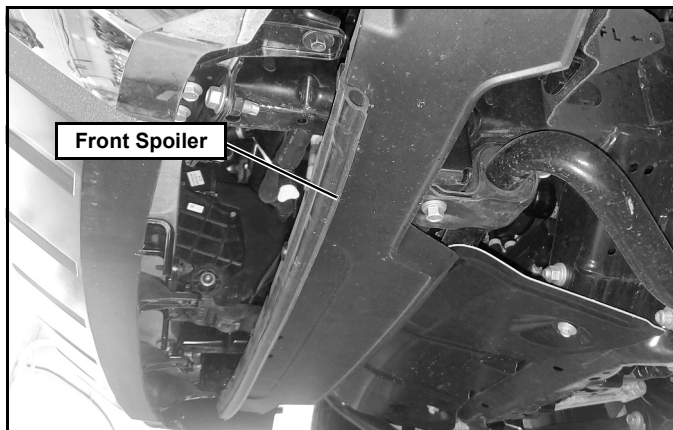


Figure 1

3. Find the hinge on each side allowing the spoiler to pivot and remove the screws holding the hinge to the bumper. (See Figure 3.) Remove the spoiler and retain the hardware for re-installation if the plow mount is removed.

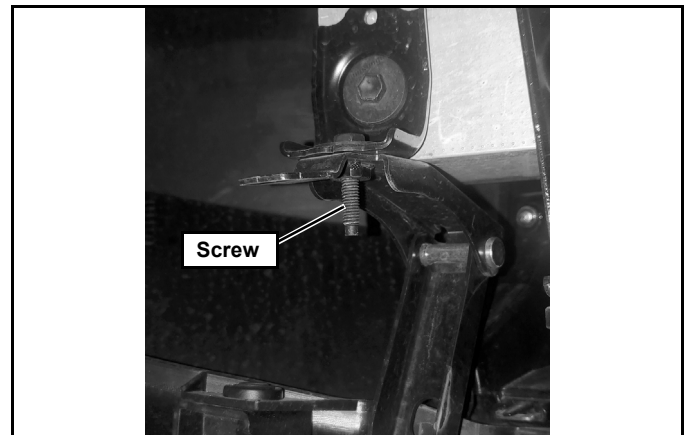


Figure 3

- Find and remove the four plastic plugs on the vehicle frame rails. (See Figure 4.) They are on the inside and outside of each frame rail. These holes will be used for hardware access.

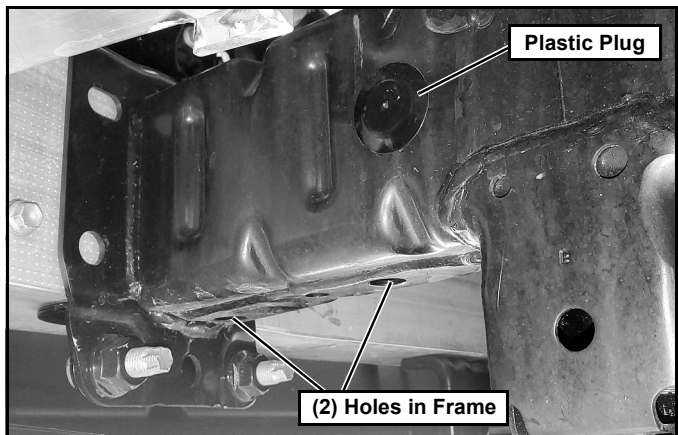


Figure 4

- Fit the Driver Side Mount Weldment (#2) to the driver side frame rail by aligning the holes in the frame (See Figure 4.) to the holes in the weldment. (See Figure 5.)

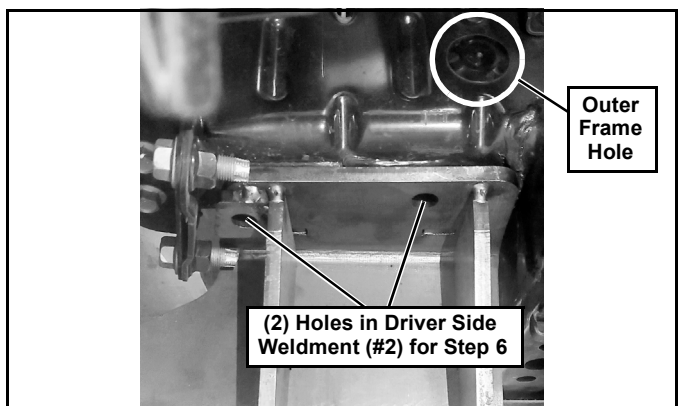


Figure 5

- Secure the Driver Side Mount Weldment (#2) to the bottom of the frame rail with (2) 1/2"-13 x 1-1/2" Handle Bolt Weldments (#4) and (2) 1/2"-13 Locknuts (#5). The first 1/2"-13 x 1-1/2" Handle Bolt Weldment (#4) should enter the truck frame from the inner frame hole and attach to the nearest hole. The next 1/2"-13 x 1-1/2" Handle Bolt Weldment (#4) should enter the same hole but attach to the farthest hole. (See Figure 5 & Figure 6.)

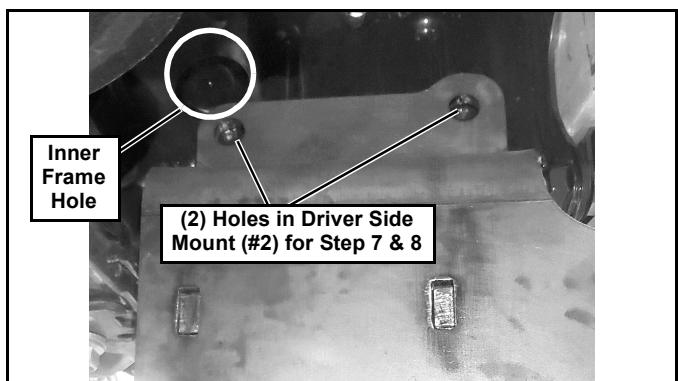


Figure 6

- Clamp the Driver Side Mount Weldment (#2) tight to the side and bottom of the frame rail. Use the top two holes in the weldment as a template to center punch and drill 1/4" pilot holes, then drill to 17/32".
- Secure the Driver Side Mount Weldment (#2) to the side of the frame rail with (2) 1/2"-13 x 1-1/2" Handle Bolt Weldments (#4) and (2) 1/2"-13 Locknuts (#5). The first 1/2"-13 x 1-1/2" Handle Bolt Weldment (#4) should enter the truck frame from the outer frame hole and attach to the nearest hole. The next 1/2"-13 x 1-1/2" Handle Bolt Weldment (#4) should enter the same hole but attach to the farthest hole.
- Repeat steps 5-8 to install the Passenger Side Mount Weldment (#3).
- Attach the Vehicle Center Member (#1) to the Mount Weldments (#2 & 3) with (8) 1/2"-13 x 1-1/2" Cap Screws (#7), (2) 1/2" Lock Washers (#6), and (6) Locknuts (#5).

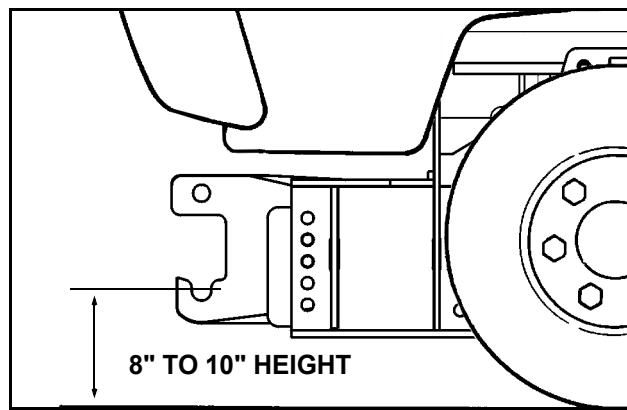


Figure 7

IMPORTANT: Height from the center of the lower Plow Mounting holes on the Vehicle Mount Kit to the ground should be between 8" and 10" to ensure proper operation.

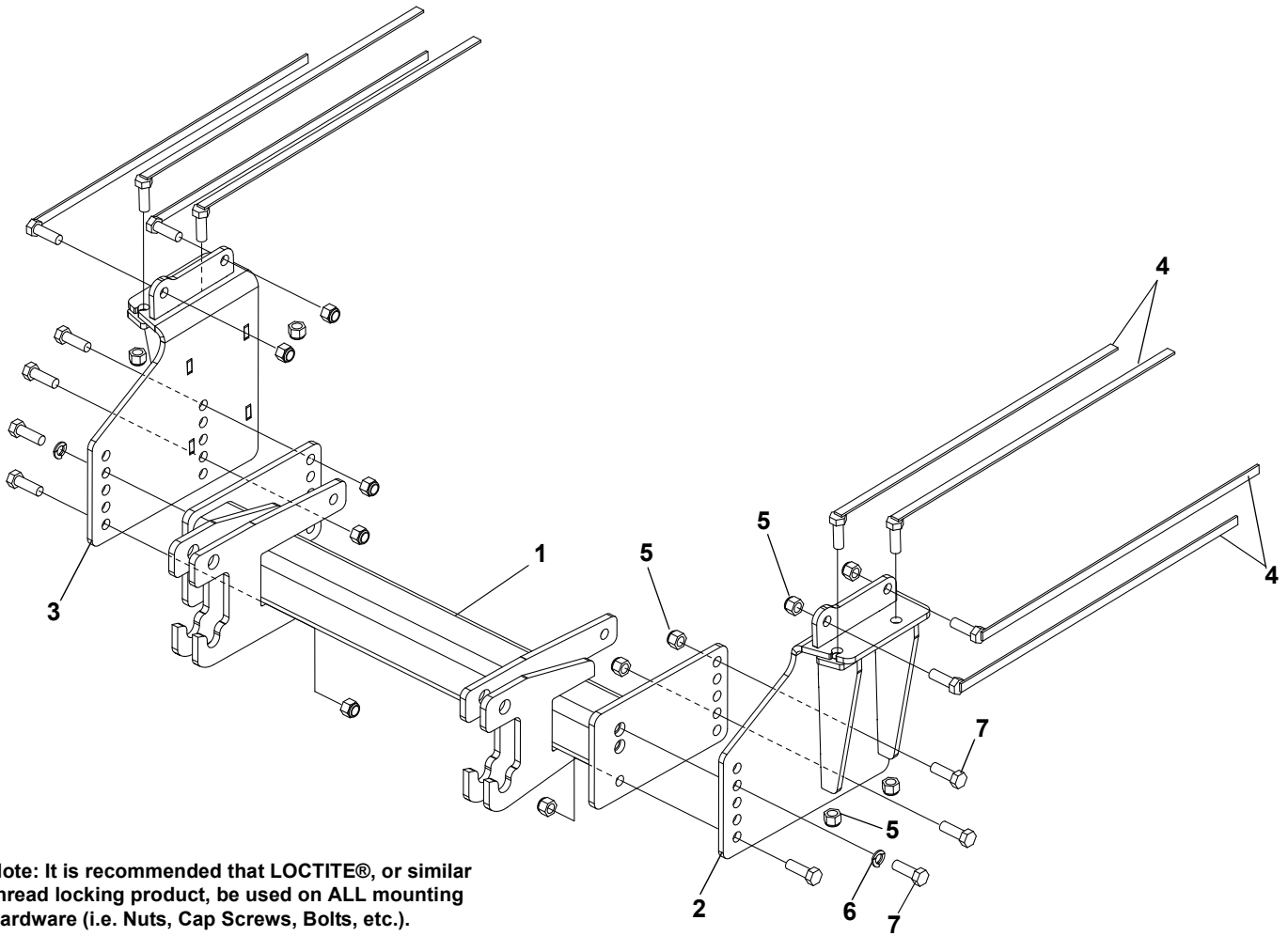
- Tighten all Cap Screws using the torque specification chart provided.

TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE					
Bolt Size	GR.2 Dry	GR.5 Dry	GR.8 Dry	Metric Size	GR.8.8 Dry
1/4"	66*	9	12	M8	17
5/16"	11	17	25	M10	35
3/8"	20	30	45	M12	60
7/16"	32	50	70	M14	95
1/2"	50	75	110	M16	155
9/16"	70	110	150		
5/8"	100	150	220		
3/4"	175	260	380		
7/8"	170	430	600		
1"	250	640	900		

Note: These torque values are to be used for all hardware. Unless otherwise specified, all torque values must meet this specification.
 Note: All torque values are in Ft.-Lbs unless otherwise stated
 Note: *In-Lbs

REMEMBER After 5 to 10 hours of snowplow usage, re-torque all Cap Screws!

PARTS LIST



Note: It is recommended that LOCTITE®, or similar thread locking product, be used on ALL mounting hardware (i.e. Nuts, Cap Screws, Bolts, etc.).

ITEM	PART NO.	DESCRIPTION	QTY.
1	99100890	Vehicle Center Member	1
2		Side Weldment, LH	1
3		Side Weldment, RH.....	1
4		Handle Bolt Weldment, 1/2"-13 x 1-1/2"	8
5		LN, 1/2"-13	14
6		LW, 1/2"	2
7		HHCS, 1/2"-13 x 1-1/2"	8
8	96118473	Kit, HDWE (Not Shown) (Includes items 4-7).....	1

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