



Fisher Engineering

77119

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October 1, 2024
Lit. No. 32790, Rev. 00



MOUNT KIT

Isuzu N-Series Diesel

2025-__

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your FISHER® outlet/website for specific vehicle application recommendations before installation. The eMatch tool has specific vehicle and snowplow requirements.

SAFETY DEFINITIONS

⚠ WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

⚠ CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

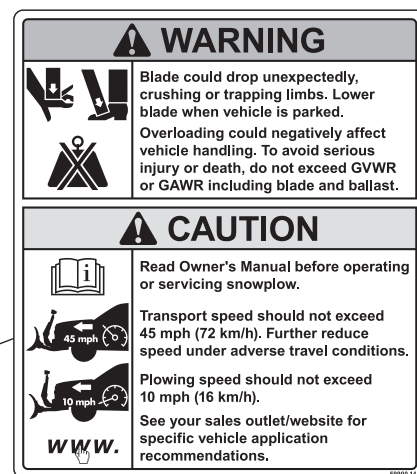
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

Become familiar with and inform users about the warning labels on the back of the blade and the instruction label on the headgear.

NOTE: If labels are missing or cannot be read, see your sales outlet.

Warning/Caution Label

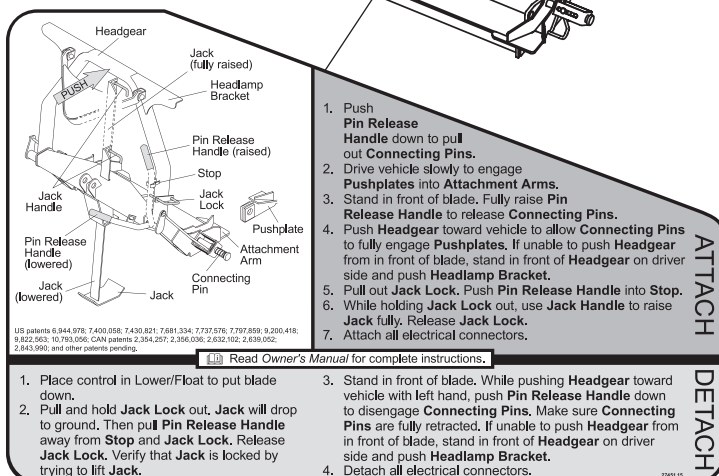


Multiple Pinch Points Label



**XLSTM Blades Only
(both sides)**

Instruction Label



SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating, or making adjustments.

WARNING

Lower the blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered, or angled. Do not stand between vehicle and blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

WARNING

Keep hands and feet clear of the blade and A-frame when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury.

WARNING

Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

WARNING

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

WARNING

Remove blade assembly before placing vehicle on hoist.

CAUTION

Refer to the eMatch tool for minimum vehicle recommendations and ballast requirements.

PERSONAL SAFETY

- Remove ignition key and put the vehicle in PARK or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt, and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses, and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

FIRE AND EXPLOSION

WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate mobile communication equipment such as cell phones, text messaging devices, pagers, or two-way radios.

VENTILATION

WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

NOISE

Airborne noise emission during use is below 70 dB(A) for the snowplow operator.

VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

TORQUE CHART

 **CAUTION**

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow, including proper personal protective safety equipment.

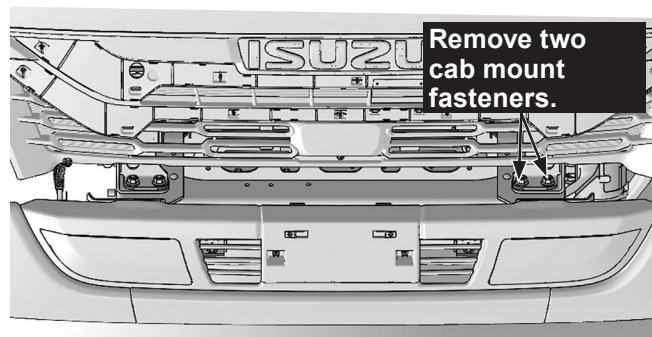
Recommended Fastener Torque Chart					
Inch Fasteners Grade 5 and Grade 8					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Grade 5	 Grade 8		 Grade 5	 Grade 8
1/4-20	8.4	11.9	9/16-12	109	154
1/4-28	9.7	13.7	9/16-18	121	171
5/16-18	17.4	24.6	5/8-11	150	212
5/16-24	19.2	27.3	5/8-18	170	240
3/8-16	30.8	43.6	3/4-10	269	376
3/8-24	35.0	49.4	3/4-16	297	420
7/16-14	49.4	69.8	7/8-9	429	606
7/16-20	55.2	77.9	7/8-14	474	669
1/2-13	75.3	106.4	1-8	644	909
1/2-20	85.0	120.0	1-12	704	995
Metric Fasteners Class 8.8 and 10.9					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Class 8.8	 Class 10.9		 Class 8.8	 Class 10.9
M6 x 1.00	7.7	11.1	M20 x 2.50	325	450
M8 x 1.25	19.5	26.9	M22 x 2.50	428	613
M10 x 1.50	38.5	53.3	M24 x 3.00	562	778
M12 x 1.75	67	93	M27 x 3.00	796	1139
M14 x 2.00	107	148	M30 x 3.50	1117	1545
M16 x 2.00	167	231	M33 x 3.50	1468	2101
M18 x 2.50	222	318	M36 x 4.00	1952	2701
These torque values apply to fasteners except those noted in the instructions.					

INSTALLATION INSTRUCTIONS

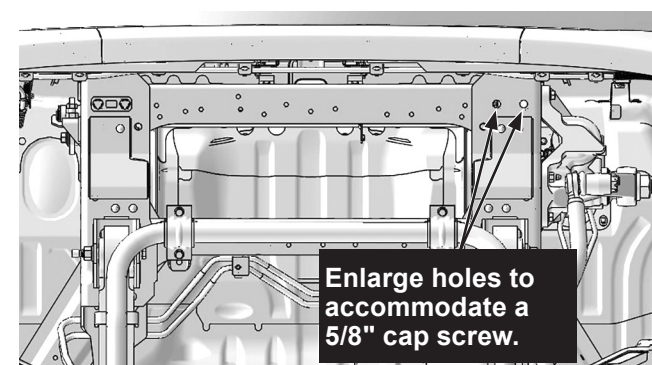
NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

1. Starting on the driver's side of the vehicle, remove the two cab mount fasteners located on the top of the vehicle frame behind the front bumper. Save the fasteners for reinstallation if the snowplow mount is removed.

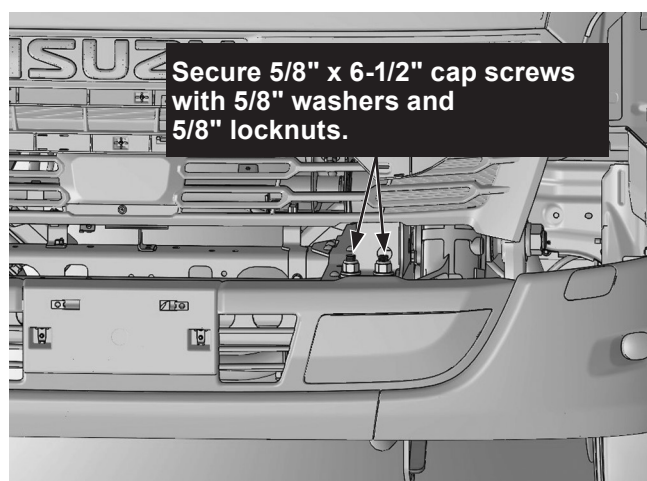
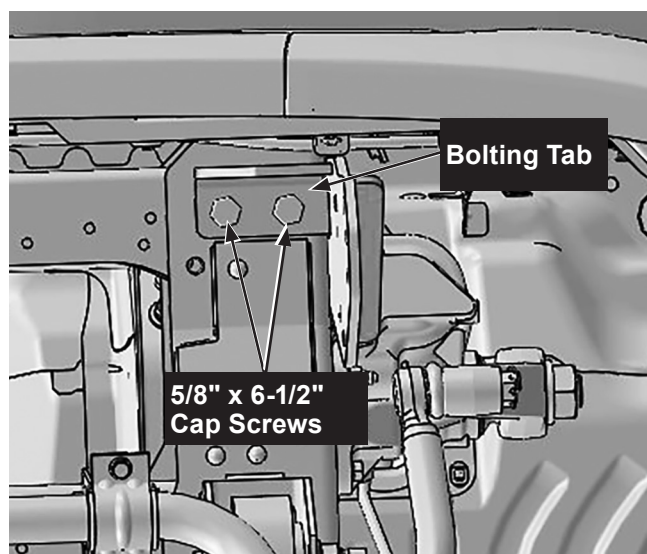
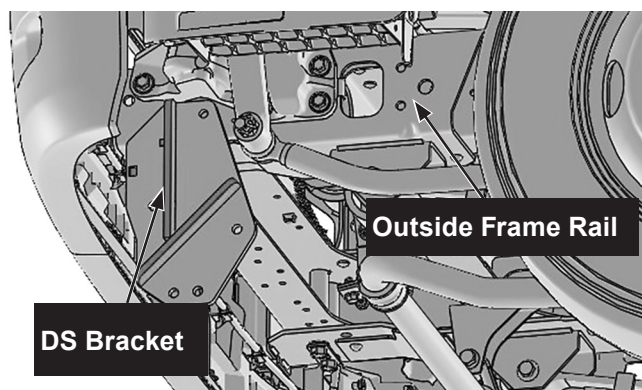
NOTE: Use caution when removing the cab mount fasteners. It may be necessary to tilt the cab forward to maintain cab mount position.



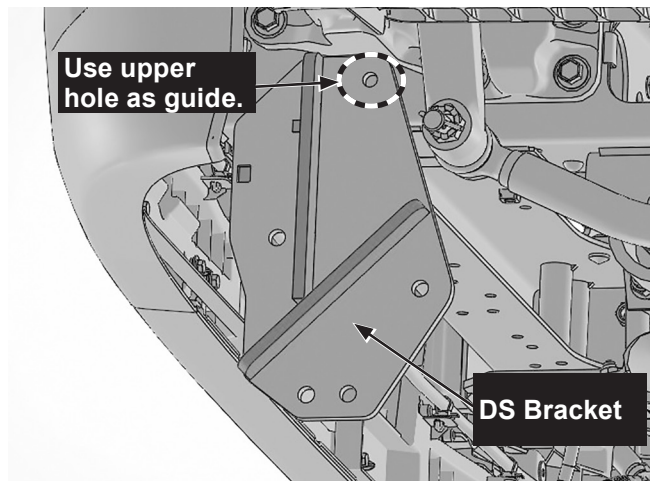
2. Enlarge the cab mount fastener holes in the frame and cab mount to allow a 5/8" cap screw to pass through.



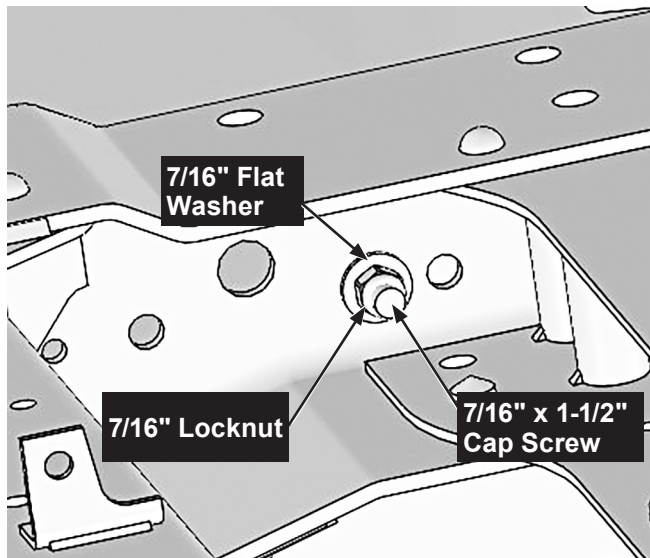
3. Position the DS bracket against the outside frame rail, lining up the holes in the bolting tab of the bracket with the holes in the bottom of the frame enlarged in step 2. Install two 5/8" x 6-1/2" cap screws through the bolting tab holes. Secure the cap screws with 5/8" washers and 5/8" locknuts, tighten according to the torque chart.



4. Using the upper hole in the DS bracket as a guide, drill a 7/16" hole through the side of the frame.



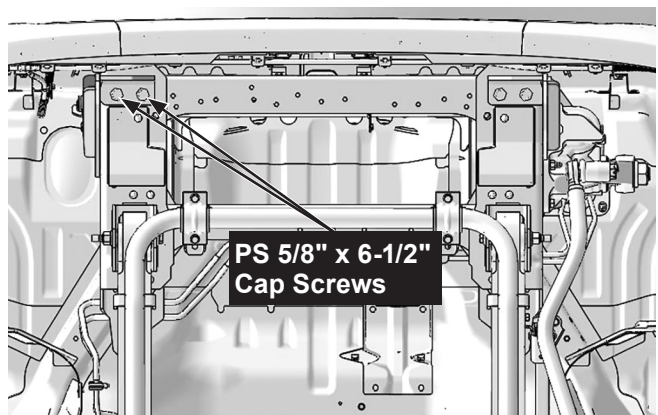
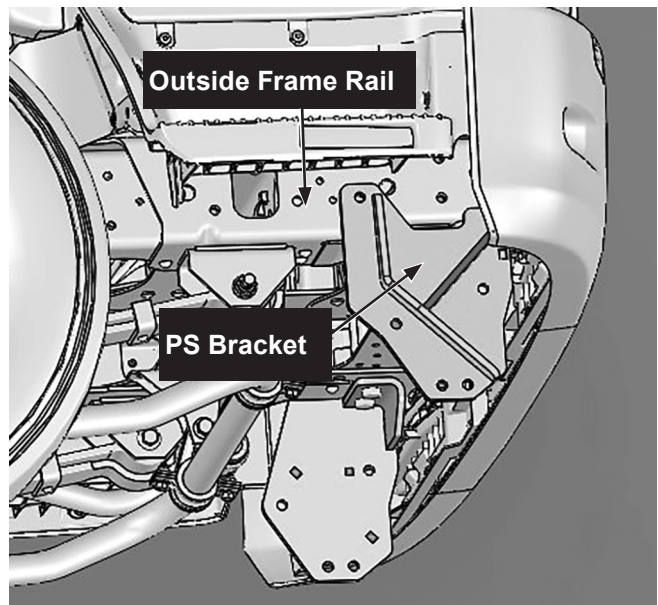
5. Install a 7/16" x 1-1/2" cap screw through the hole drilled in step 4. Secure the cap screw with a 7/16" washer and 7/16" locknut, tighten according to the torque chart.

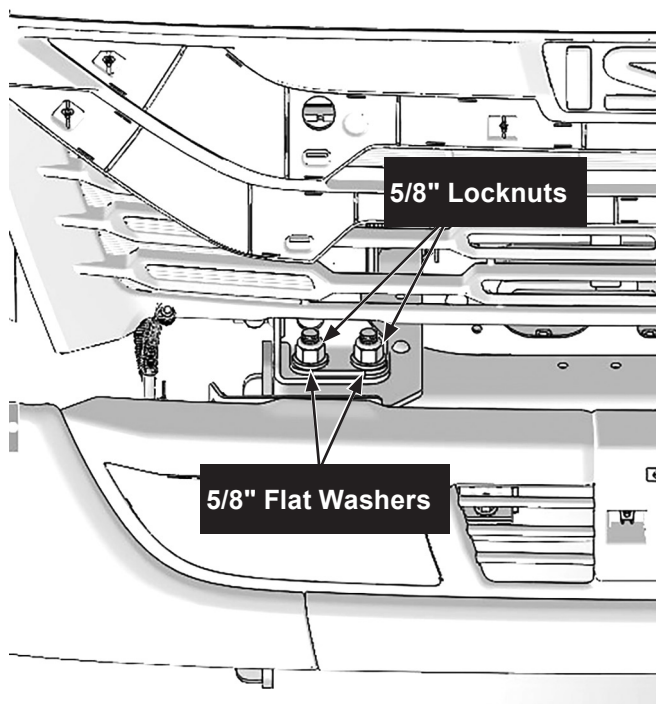


6. Repeat steps 1 and 2 on the passenger's side of the vehicle.

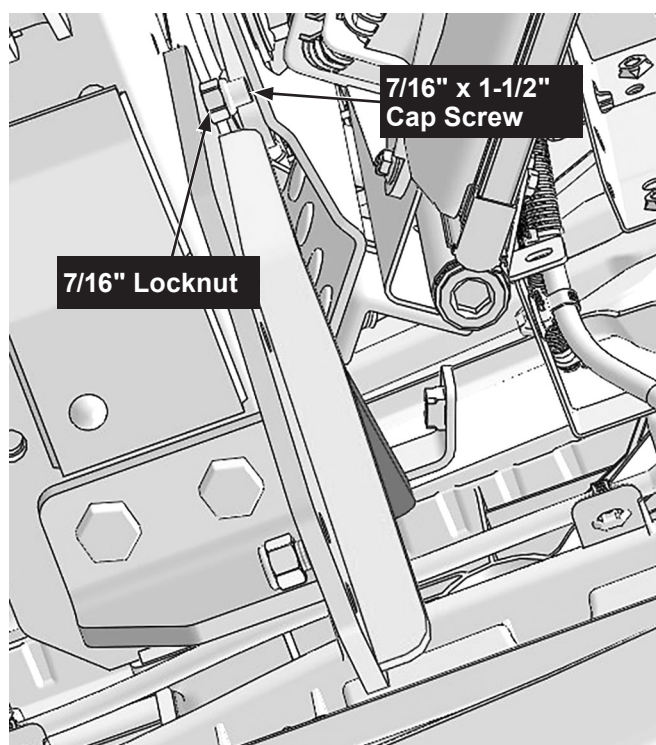
NOTE: Use caution when removing the cab mount fasteners. It may be necessary to tilt the cab forward to maintain cab mount position.

7. Position the PS bracket against the outside frame rail, lining up the holes in the bolting tab of the bracket with the holes in the bottom of the frame enlarged as shown in step 3 for driver's side. Install two 5/8" x 6-1/2" cap screws up through the bolting tab holes. Secure the cap screws with 5/8" washers and locknuts, tighten according to the torque chart.





8. Place a 7/16" washer on a 7/16" x 1-1/2" cap screw, install the cap screw through the upper hole of the PS bracket, ensuring that the washer is contacting the inside surface of the vehicle frame. Secure the fastener with a 7/16" locknut, tighten according to the torque chart.

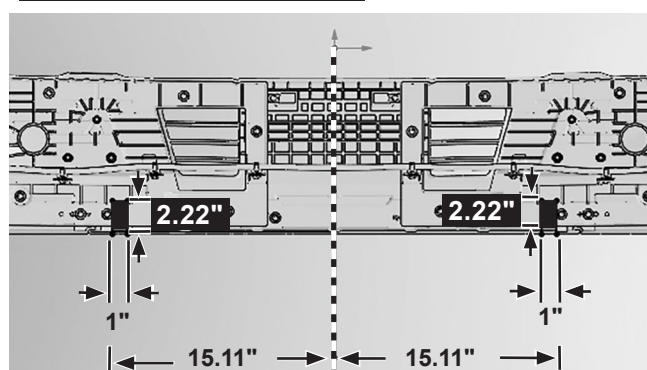


9. Refer to the illustrations below to notch the bumper to allow the mount beam to be installed.

NOTE: Dimensions are approximate.

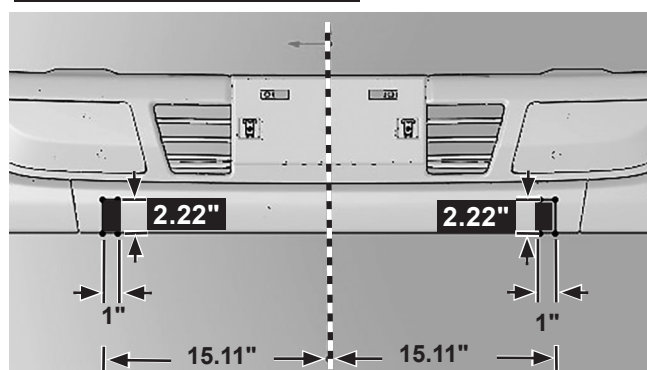
NOTE: Use caution when notching to avoid hoses, fittings, harnesses, etc.

Backside View of Bumper



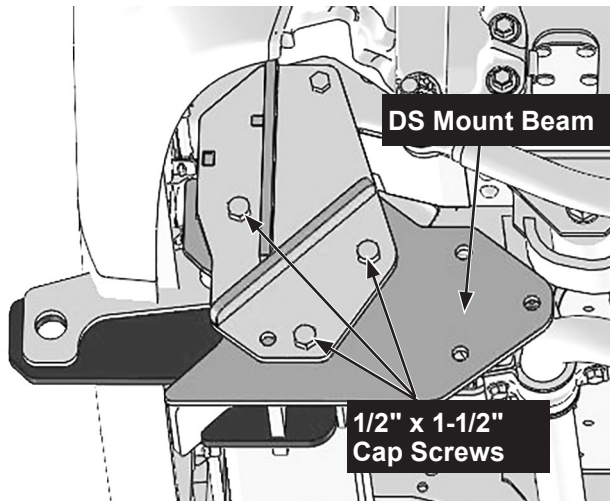
Centerline

Frontside View of Bumper

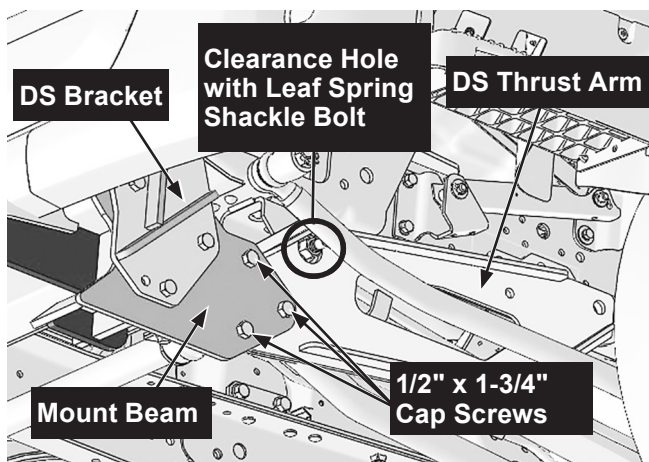


Centerline

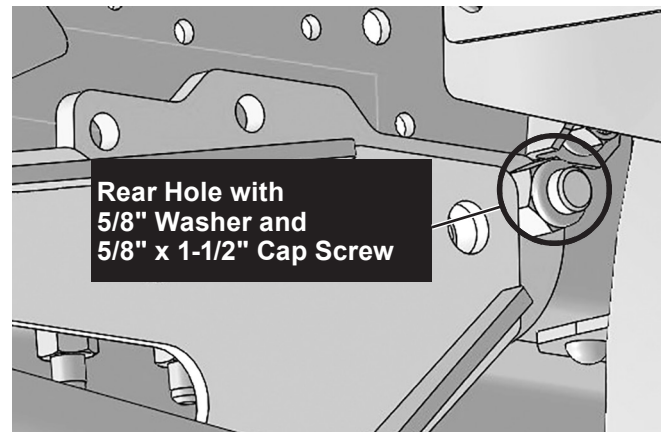
10. Position the mount beam between the two brackets. Install three 1/2" x 1-1/2" cap screws through the DS bracket and mount beam as shown, and three 1/2" x 1-1/2" cap screws through the PS bracket and mount beam (PS not shown). Secure the six cap screws with 1/2" locknuts, tighten but do not torque.



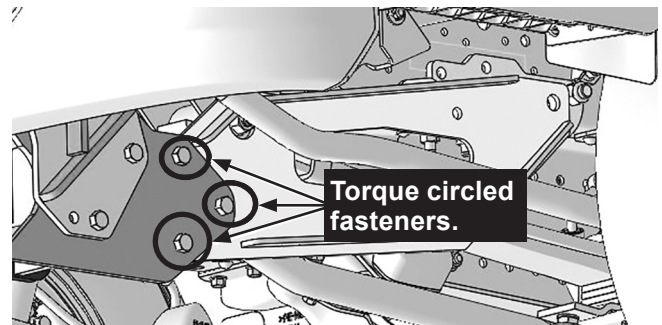
11. Level the mount beam, then torque the cap screws installed in step 10 according to the torque chart.
12. Turn the steering wheel to full left to provide clearance to install the DS thrust arm.
13. Position the DS thrust arm on the inside of the mount beam as shown, centering the clearance hole in the thrust arm around the leaf spring shackle bolt. Secure the thrust arm to the mount beam with three 1/2" x 1-3/4" cap screw with 1/2" locknuts, tighten but do not torque the fasteners at this time.



14. Place a 5/8" washer on a 5/8" x 1-1/2" cap screw. Install the cap screw through the rear hole of the DS thrust arm as shown, ensuring the washer is contacting the inside surface of the vehicle frame. Secure the cap screw with a 5/8" locknut.

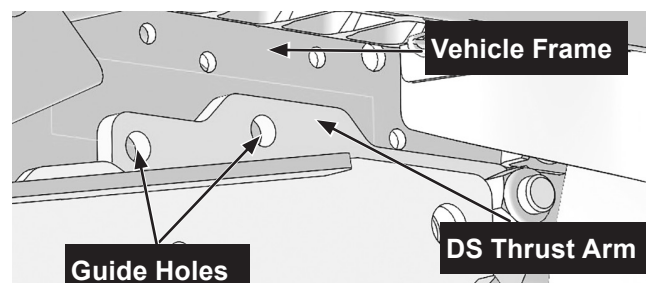


15. Torque the fasteners installed in steps 13 and 14 according to the torque chart.

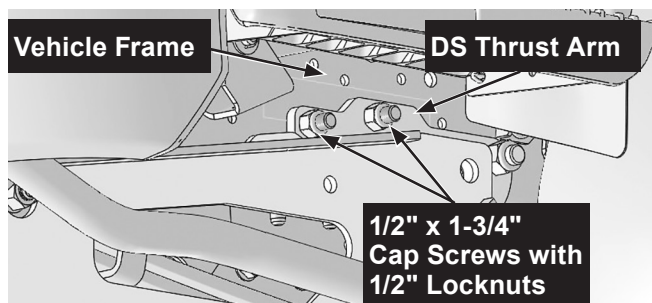


16. Using the holes in the DS thrust arm as a guide, drill two 1/2" holes through the vehicle frame.

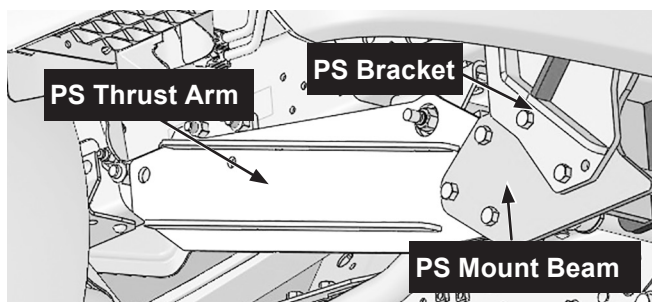
NOTE: Use caution when drilling to avoid hitting any cables, hoses, harnesses, etc.



17. Place 1/2" washers on two 1/2" x 1-3/4" cap screws. Install the cap screws through the holes drilled in step 16, ensuring the washers are contacting the inside surface of the vehicle frame. Secure the cap screws with 1/2" locknuts, tighten according to the torque chart.



18. Repeat steps 13-17 on the passenger's side of the vehicle using the PS thrust arm



NOTE: After five to ten hours of snowplow usage, retorque all pushplate assembly fasteners.



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