

33218 MOUNT KIT

Isuzu F

2024-__

Installation Instructions

CAUTION

Read this document before installing the snowplow.

CAUTION

See your sales outlet/website for specific vehicle application recommendations before installation. The online selection system 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.

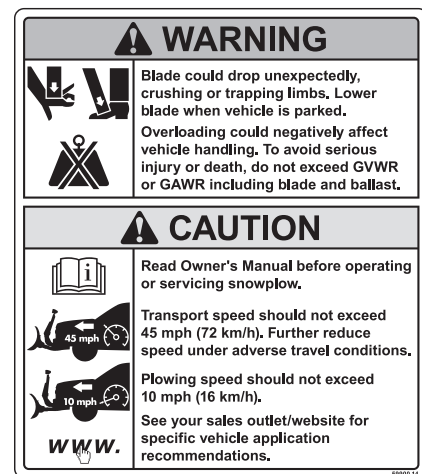
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

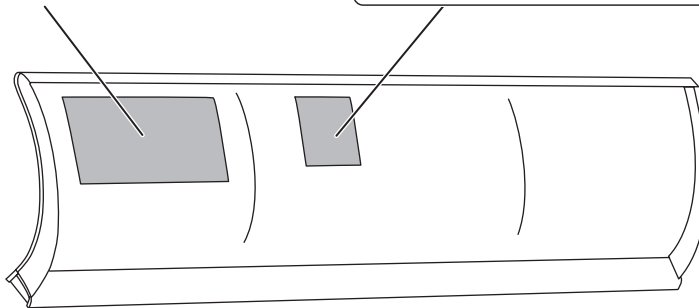
Become familiar with and inform users about the warning and instruction labels on the back of the blade.

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

Warning/Caution Label



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 online selection system for minimum vehicle recommendations and ballast requirements.

PERSONAL SAFETY

- Remove the 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.

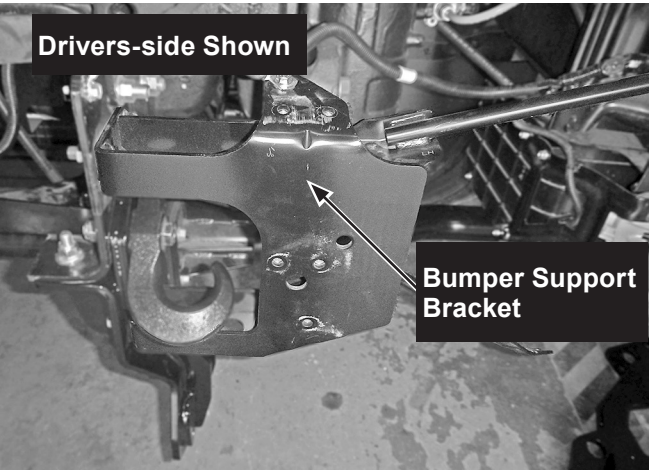
INSTALLATION INSTRUCTIONS

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

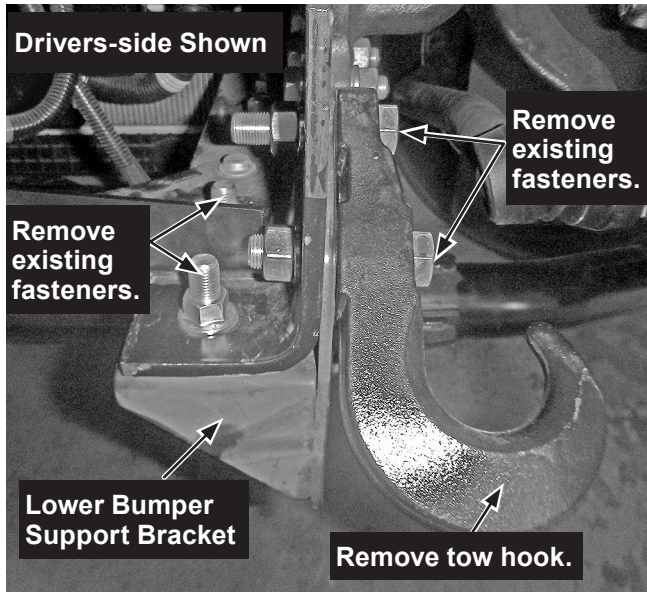
1. Remove the bumper. Save all OEM hardware for reinstallation.



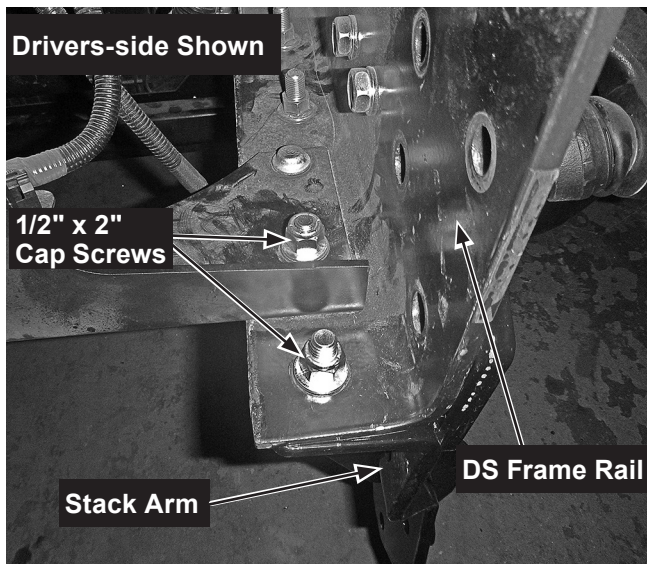
2. Remove the DS and PS bumper support brackets. Save the OEM fasteners for reinstallation.



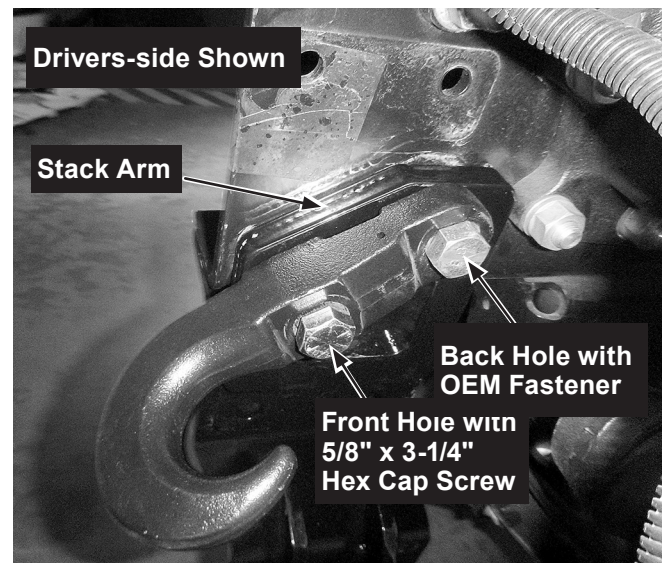
3. Remove the DS and PS tow hooks and lower bumper support brackets. Save the tow hooks and OEM hardware for reinstallation. Save the lower bumper support brackets and OEM hardware for reinstallation if the mount is removed.



4. Place two 1/2" flat washers on two 1/2"-13 x 2" fasteners. Position the DS stack arm against the DS frame rail. Install the cap screws up through the slots of the stack arm and frame. Secure the cap screws with 1/2" flat washers and 1/2" locknuts and hand tighten.

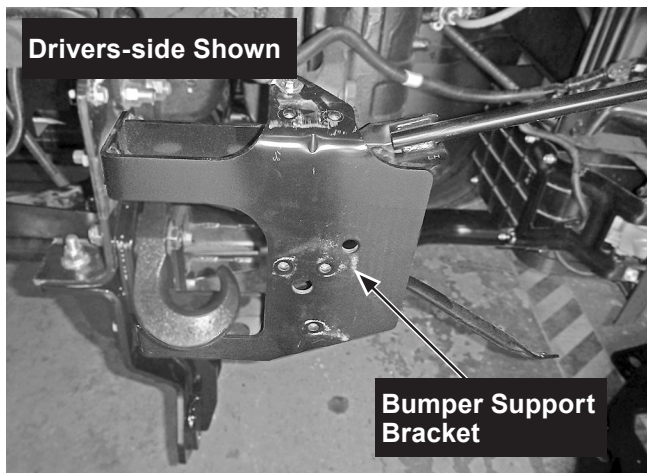


5. To reinstall tow hook, position the tow hook against the DS stack arm. Install a 5/8" x 3-1/4" cap screw through the forward hole of the tow hook. Secure the cap screw with a 5/8" flat washer and a 5/8" locknut and hand tighten. Install one of the OEM fasteners removed in step 3 through the rear hole of the tow hook. Secure with the OEM nut. Hand tighten only. Note: If tow hook reinstallation is not desired, the stack arm may be secured using the 5/8" x 2" cap screw, 5/8" flat washer, and 5/8" locknut as shown in the parts list.

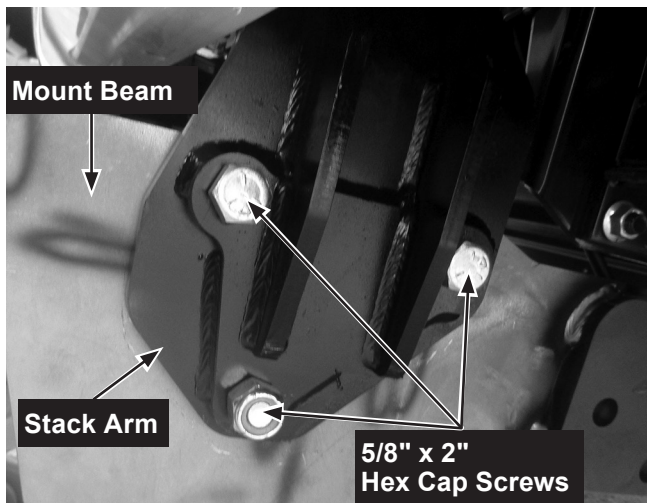


6. Tighten the fasteners installed in steps 4 and 5 in sequence so the stack arm is clamped to the bottom and outside frame rail appropriately. Torque the fasteners according to the torque chart.
7. Repeat steps 4 – 6 on the passenger's side of the vehicle, using the PS stack arm.

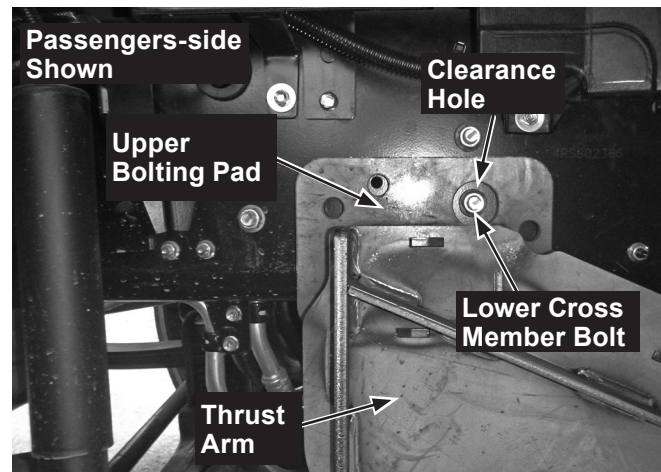
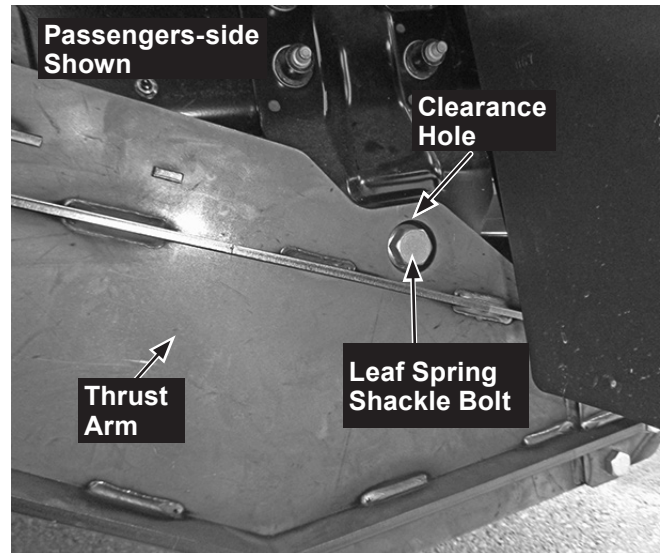
8. Reinstall the DS and PS bumper support brackets using the OEM hardware.



9. Reinstall the bumper using the OEM hardware.
10. Position the mount beam between the two stack arms. A floor jack may be used to help support the mount beam in position.
11. Secure the mount beam to the stack arms using six 5/8" x 2" fasteners (three per side). Note: the lower fasteners must be installed with the heads of the cap screws positioned on the inside of the mount beam as shown. Secure each fastener with a 5/8" locknut. Tighten, but do not torque the fasteners at this time.



12. On the passenger's side of the vehicle, position the PS thrust arm against the vehicle frame as shown. Ensure the clearance hole in the thrust arm is centered over the leaf spring shackle bolt. Ensure the clearance hole in the upper bolting pad is centered over the lower cross member bolt as shown. Clamp the PS thrust arm to the leaf spring shackle bracket to help hold in position.



13. Secure the PS thrust arm to the mount beam by installing three 5/8" x 3-1/4" fasteners through the PS thrust arm and mount beam as shown. Secure the fasteners with locknuts. Tighten, but do not torque the fasteners at this time.

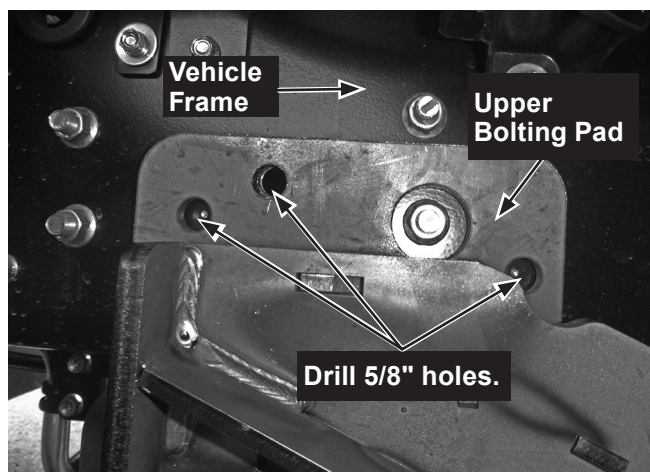


14. Make adjustments as necessary to ensure the clearance holes in the PS thrust arm are positioned appropriately over the leaf spring shackle bolt and the lower cross member bolt.

⚠ CAUTION

Use caution not to pinch, cut or drill through any wires or hoses running along the frame rails.

15. Use the holes in the upper bolting pad as a guide to drill three 5/8" holes in the frame of the vehicle. Prior to drilling, ensure that there are no obstructions or vehicle components that may be damaged by drilling.



16. Install three 5/8" x 2" cap screws through the holes drilled in step 15. Secure the cap screws with 5/8" washers and 5/8" locknuts. Torque the fasteners according to the torque chart.
17. Turn the wheels to full left to provide clearance to install the left thrust arm on the driver's side, and repeat steps 12-16 on the driver's side of the vehicle, using the left thrust arm.
18. Prior to torquing the fasteners installed in step 11, ensure the mount beam is level. Make adjustments as necessary, then torque the PS and DS mount beam fasteners installed in step 11 according to the torque chart.
19. Tighten the PS and DS thrust arm to mount beam fasteners installed in step 13 according to the torque chart.

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

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 snow removal. Do not exceed vehicle ratings with a snowplow. The company offers a limited warranty for all snowplows and accessories. See separately printed page for this important information.

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