

35140

MOUNT KIT

Kawasaki Mule 3010

2000 - 08

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 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 and instruction labels on the back of the blade.

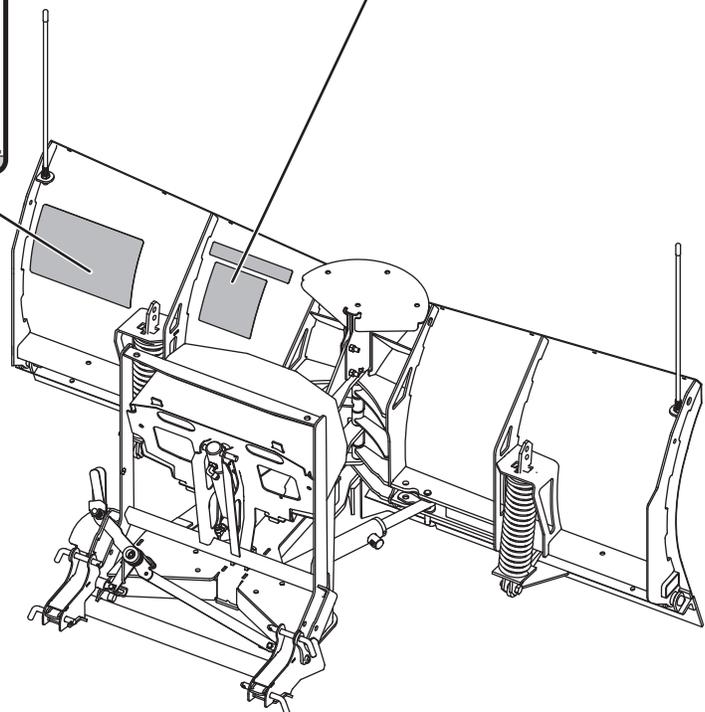
NOTE: If labels are missing or cannot be read, see your sales outlet.

Instruction Label

ATTACH	<p>⚠ WARNING</p> <p>Keep fingers away from snowplow and UTV attachment points.</p>
<ol style="list-style-type: none"> Slowly drive vehicle forward to engage rear receiver pins into headgear slots. Apply vehicle parking brake. Hold down lock lever and move hitch pin handle out of the handle lock slot, allowing the spring to move the hitch pin handle forward. Plug in electrical harness. Turn plow control in vehicle ON and activate FLOAT. Stand in front of blade. Push top of headgear toward vehicle to allow hitch pins to fully engage hitch pin holes. Verify the lock pin is engaged in the forward hole in the lock pin bracket. 	
DETACH	<ol style="list-style-type: none"> With blade wings fully retracted in the vee position, lower snowplow to ground. Activate FLOAT, then turn plow control in vehicle OFF. Apply vehicle parking brake. Unplug electrical harness. Hold down lock lever to disengage lock pin and move hitch pin handle rearward to fully disengage hitch pins from receivers. Move hitch pin handle into the handle lock slot. <p>Read Owner's Manual for complete instructions.</p>

Warning/Caution Label

⚠ WARNING	<p>Lower blade when vehicle is parked.</p> <p>Do not exceed GVWR or GAWR including blade and ballast.</p>
⚠ CAUTION	<p>Read Owner's Manual before operating or servicing snowplow.</p> <p>Transport speed should not exceed 20 mph (32 km/h). Further reduce speed under adverse travel conditions.</p> <p>Plowing speed should not exceed 10 mph (16 km/h).</p> <p>See your sales outlet/website for specific vehicle application recommendations.</p>



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 the vehicle and the 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 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

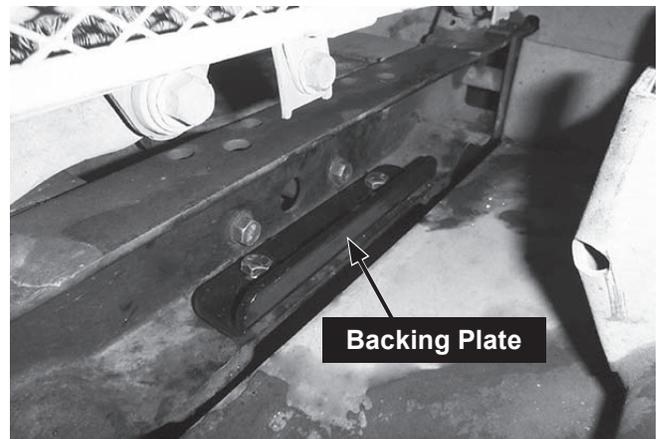
Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow, including proper personal protective safety equipment.

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.

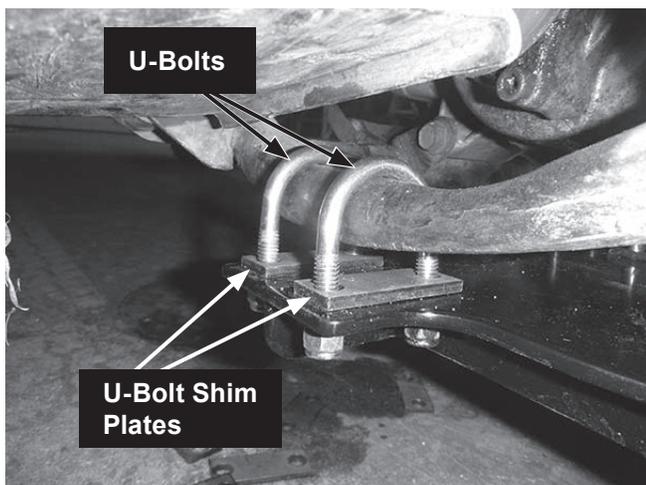
1. Remove splash pan from the vehicle.
2. Position the backing plate above the bumper's lower flange as shown. Insert a 3/8" x 1-1/4" cap screw with washer through each outer backing plate hole and down through the existing holes in the bumper.



3. Position the mount's skid pan assembly in place against the bottom of the bumper as shown. Align the outer front holes in the assembly with the 3/8" cap screws installed in Step 2. Secure with 3/8" washers and locknuts. Do not tighten any fasteners at this time.



4. Place U-bolt shim plates in position on the top side of the skid pan assembly. Position two U-bolts on each side of the mount (four total), as shown. Check that the U-bolts have at least 1/4" clearance from any other vehicle components. Adjust the position forward or aft, as needed. Secure with 3/8" washers and locknuts.

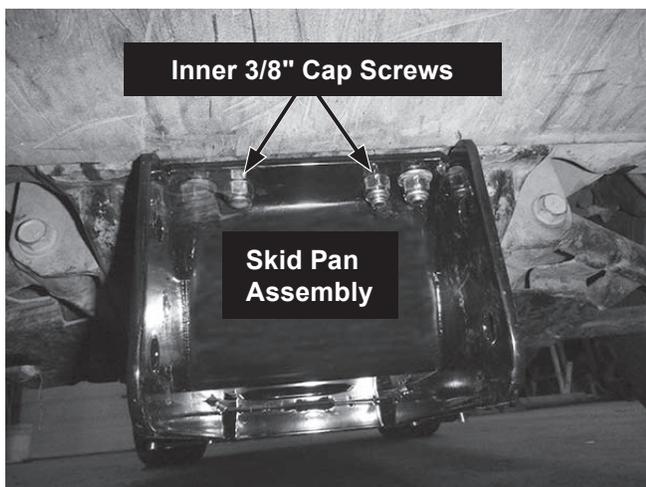


5. Tighten all fasteners according to the torque chart. Ensure that each U-bolt leg is tightened evenly.

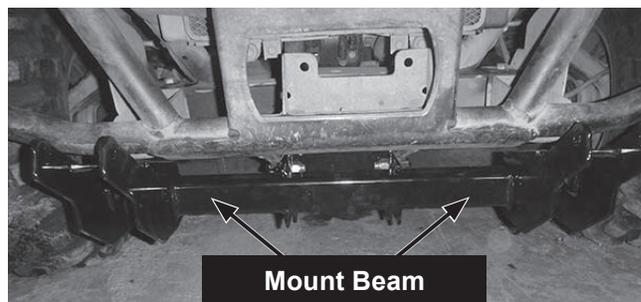
⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

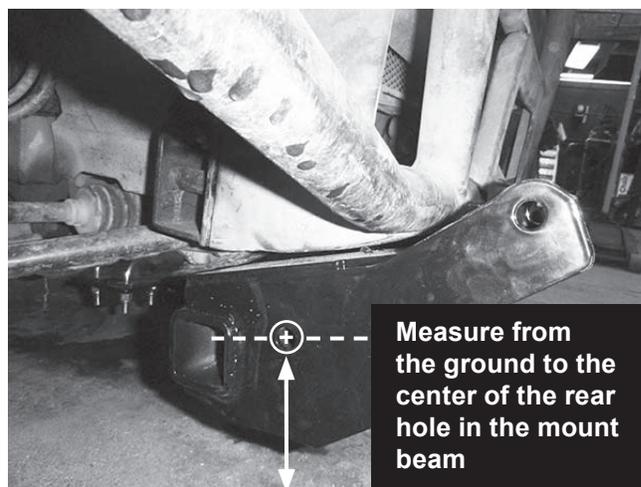
6. Using the inner holes of the skid pan assembly as guides, drill two 13/32" diameter holes through the lower flange of the bumper. Insert 3/8" x 1-1/4" cap screws through the drilled holes and secure with 3/8" locknuts. Tighten these fasteners according to the torque chart.



7. Position the mount beam as shown and secure with four 1/2" x 1-1/4" cap screws and locknuts. Verify that the mount beam is level with the ground from left to right and tighten according to the torque chart provided.



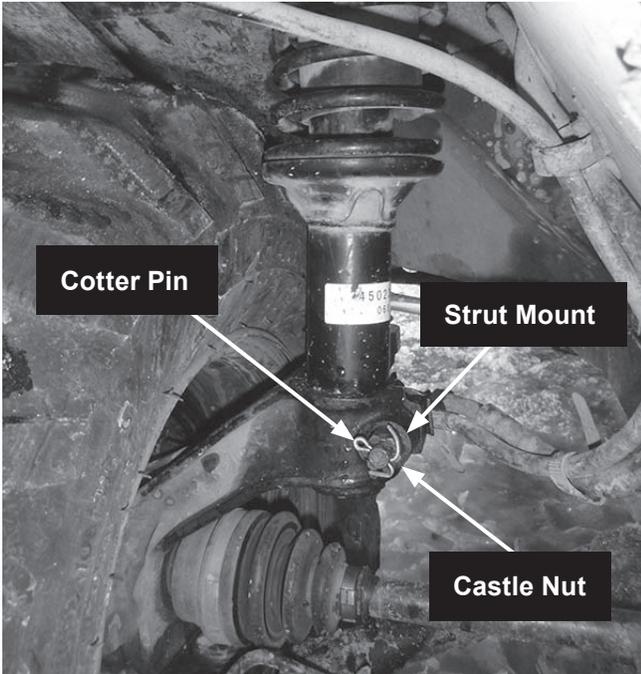
8. With the vehicle parked on a level surface, measure from the ground to the center of the rear hole in the mount beam. If this measurement is less than 9-1/2", installation of the front suspension lift kit is required.



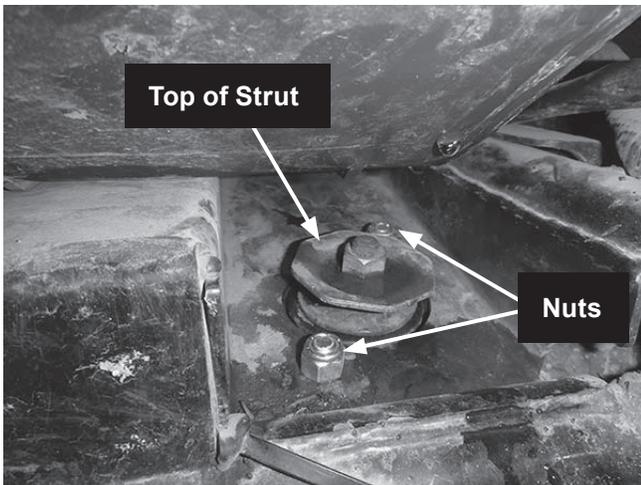
Lift Kit Installation, if required.

1. Set the parking brake and chock the rear wheels both front and back. Place a floor jack under the front center of the vehicle. Raise the front of the vehicle until the front wheels are off the ground, and the A-arms and struts extend fully.
2. Remove the front wheels.

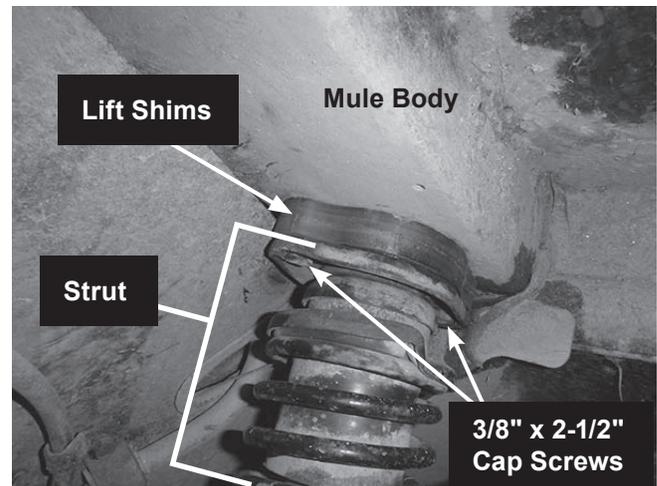
- Remove the cotter pin and castle nut that secures the lower portion of the strut to the strut mount on one side of the vehicle. Remove the lower bolt making sure not to damage the brake line attached to it.



- Remove the nuts securing the top of the strut to the vehicle body. It may be necessary to remove the heater (if equipped) to gain access to the top strut nuts.



- Allow the strut to drop until the studs are clear of the body. Remove the strut from its lower mount. It may be necessary to open the lower strut mount slightly by prying along the center.
- Remove the existing strut studs. Place two lift shims over the top of the strut.
- Reinstall the strut by inserting the lower strut into its mount and lining up the lower bolt with the indentation on the lower strut.
- Position the top of the strut and the two lift shims against the body. Align the holes in the lift shims with the holes in the strut and the body holes. Insert a 3/8" x 2-1/2" cap screw with washer up through each of the holes. Secure with a 3/8" washer and locknut on the top side of the body. Tighten the fasteners according to the torque chart at this time.



- Secure the lower bolt with the castle nut and cotter pin removed in Step 3.
- Repeat on opposite side.

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.