



B35127

UNDERCARRIAGE KIT

Kawasaki Mule 4010

2008 - ___

Heavy Duty Front Springs Required.

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your BLIZZARD® outlet/Web site for specific vehicle application recommendations before installation. The Undercarriage Selection Guide has specific vehicle and snowplow requirements.

SAFETY

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.

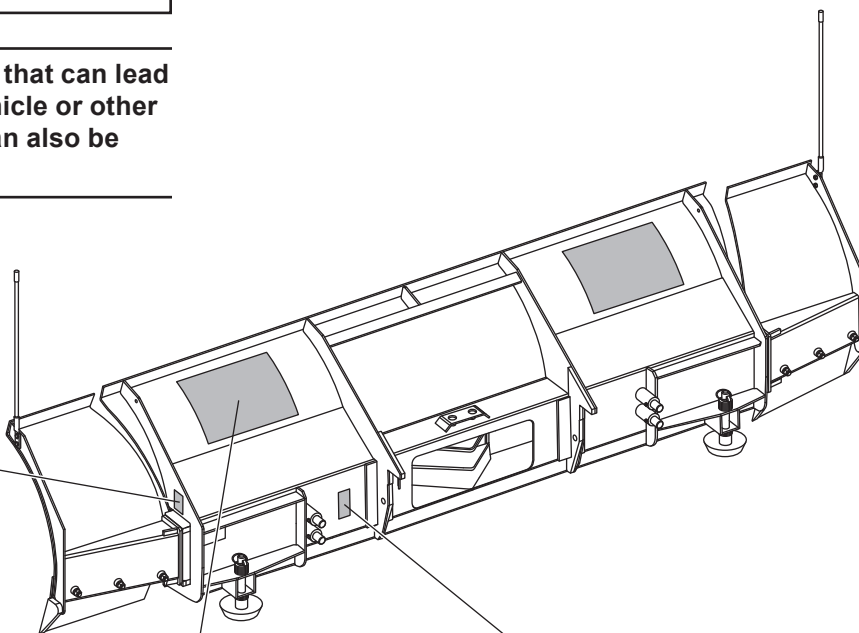
WARNING/CAUTION & INSTRUCTION LABELS

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.



POWER PLOW® & SPEEDWING™ Blades Only (both sides)



| ATTACH | ⚠ WARNING: Keep fingers away from snowplow and truck attachment points. POWER HITCH™ 2 arm raises behind undercarriage pushbeam. | DETACH |
|---|--|--|
| <ol style="list-style-type: none"> Slowly drive vehicle forward to engage mount adapter into A-frame. Turn power switch to center or "OFF" position. Plug in electrical harnesses. Push and hold power switch RIGHT and push UP and hold armblade operation switch. Arm will engage mount adapter and pull snowplow toward vehicle. Rotate and release hitch pin. Hitch pin is fully engaged when pin handle is against the pin guide plate. Repeat Step 5 on passenger's side. Rotate and release hitch pin. Hitch pin is fully engaged when pin handle is against the pin guide plate. While holding power switch RIGHT, push DOWN and hold armblade operation switch. Arm will disengage mount adapter to relieve tension on the stand. Pull stand handle up. Stand will lift off ground. Put stand pin out. Rotate stand up until stand pin seats into upper hole. Pin must lock into upper A-frame hole. Repeat Step 8 on passenger's side. Pull stand handle up. Stand will lift off ground. Put stand pin out. Rotate stand up until stand pin seats into upper hole. Pin must lock into upper A-frame hole. Turn power switch to left or "Powering" position. | | <ol style="list-style-type: none"> Lower snowplow onto ground with blade straight. Turn power control in cab to "OFF" position. Turn power switch to center or "OFF" position. While holding the power switch RIGHT, push DOWN and hold the armblade operation switch. Arm will disengage mount adapter to relieve tension on the stand. Pull stand pin out. Rotate stand down until stand pin seats into lower A-frame hole. Push down on top of shoe. Shoe will be on the ground. Repeat Step 4 on passenger's side. Pull stand pin out. Rotate stand down until stand pin seats into lower A-frame hole. Push down on top of shoe. Shoe will be on the ground. Push and hold power switch RIGHT and push UP the armblade operation switch. Arm will engage mount adapter and pull snowplow lightly to vehicle. Rotate and pull hitch pin. Rotate hitch pin into retracted position. Repeat Step 7 on passenger's side. Rotate and pull hitch pin. Rotate hitch pin into retracted position. While holding power switch RIGHT, push DOWN and hold armblade operation switch to fully lower arm. Unplug electrical harnesses. |
| | | |
| <p>Read Owner's Manual for Complete Instructions.</p> | | |
| | | |

U.S. Patents 5,420,480; 5,638,618; 5,699,007; 5,178,668; 6,253,470; 6,276,076; 6,393,737; 6,408,848; 6,412,189; 6,442,877; 6,615,513; 7,134,227; 7,400,058; 7,431,821; R333,700; CAN Patents 2,100,426; 2,184,922; 2,229,783; 2,259,805; 2,358,145; 2,398,384; 2,468,150; 2,522,833; and other patents pending.

SAFETY

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 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 Undercarriage Selection Guide 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 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.

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TORQUE SPECIFICATIONS

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.



Grade Identification for J429–Grade 5 Bolt



Grade Identification for J429–Grade 8 Bolt

| SAE J429 Grade 5 Torque Values | | | | SAE J429 Grade 8 Torque Values | | | |
|--------------------------------|------------------|-------------------|-----------|--------------------------------|------------------|-------------------|-----------|
| Nominal Thread Size | Clamp Loads (lb) | Tightening Torque | | Nominal Thread Size | Clamp Loads (lb) | Tightening Torque | |
| | | "Lubricated" | "Dry" | | | "Lubricated" | "Dry" |
| 1/4-20 | 2,000 | 6 ft-lb | 8 ft-lb | 1/4-20 | 2,850 | 9 ft-lb | 12 ft-lb |
| 5/16-18 | 3,350 | 13 ft-lb | 18 ft-lb | 5/16-18 | 4,700 | 18 ft-lb | 25 ft-lb |
| 3/8-16 | 4,950 | 23 ft-lb | 31 ft-lb | 3/8-16 | 6,950 | 32 ft-lb | 44 ft-lb |
| 7/16-14 | 6,800 | 37 ft-lb | 50 ft-lb | 7/16-14 | 9,600 | 53 ft-lb | 70 ft-lb |
| 1/2-13 | 9,050 | 57 ft-lb | 75 ft-lb | 1/2-13 | 12,800 | 80 ft-lb | 107 ft-lb |
| 9/16-12 | 11,600 | 82 ft-lb | 109 ft-lb | 9/16-12 | 16,400 | 115 ft-lb | 154 ft-lb |
| 5/8-11 | 14,500 | 113 ft-lb | 151 ft-lb | 5/8-11 | 20,300 | 159 ft-lb | 211 ft-lb |
| 3/4-10 | 21,300 | 200 ft-lb | 266 ft-lb | 3/4-10 | 30,100 | 282 ft-lb | 376 ft-lb |
| 7/8-9 | 29,435 | 321 ft-lb | 430 ft-lb | 7/8-9 | 41,550 | 454 ft-lb | 606 ft-lb |
| 1-8 | 38,600 | 482 ft-lb | 640 ft-lb | 1-8 | 54,540 | 680 ft-lb | 900 ft-lb |



8.8 Grade Identification for Metric–Grade 8.8 Bolt



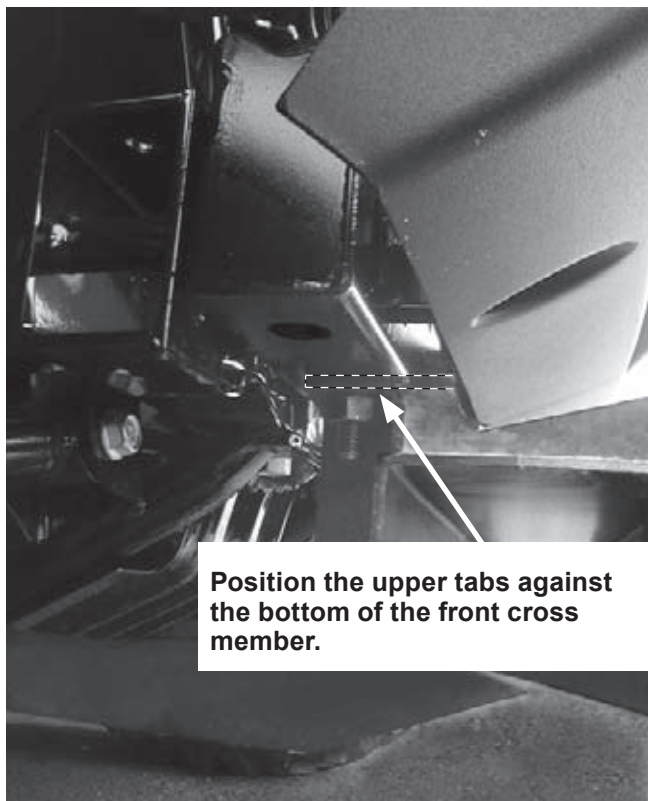
10.9 Grade Identification for Metric–Grade 10.9 Bolt

| Metric Class 8.8 Torque Values | | | | Metric Class 10.9 Torque Values | | | |
|--------------------------------|------------------|-------------------|-----------|---------------------------------|------------------|-------------------|-----------|
| Diameter (mm) | Clamp Loads (lb) | Tightening Torque | | Diameter (mm) | Clamp Loads (lb) | Tightening Torque | |
| | | "Lubricated" | "Dry" | | | "Lubricated" | "Dry" |
| 5 | 1,389 | 3 ft-lb | 5 ft-lb | 5 | 1,987 | 5 ft-lb | 7 ft-lb |
| 6 | 1,965 | 6 ft-lb | 8 ft-lb | 6 | 2,812 | 8 ft-lb | 11 ft-lb |
| 7 | 2,826 | 10 ft-lb | 13 ft-lb | 7 | 4,044 | 14 ft-lb | 19 ft-lb |
| 8 | 3,579 | 14 ft-lb | 19 ft-lb | 8 | 5,121 | 20 ft-lb | 27 ft-lb |
| 10 | 5,672 | 28 ft-lb | 37 ft-lb | 10 | 8,116 | 40 ft-lb | 53 ft-lb |
| 12 | 8,243 | 49 ft-lb | 65 ft-lb | 12 | 11,796 | 70 ft-lb | 92 ft-lb |
| 14 | 11,246 | 77 ft-lb | 103 ft-lb | 14 | 16,092 | 111 ft-lb | 148 ft-lb |
| 16 | 15,882 | 125 ft-lb | 167 ft-lb | 16 | 21,970 | 173 ft-lb | 231 ft-lb |
| 18 | 19,423 | 172 ft-lb | 229 ft-lb | 18 | 26,868 | 238 ft-lb | 317 ft-lb |
| 20 | 24,784 | 244 ft-lb | 325 ft-lb | 20 | 34,284 | 338 ft-lb | 450 ft-lb |

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UNDERCARRIAGE INSTALLATION

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

1. Place one backer plate on the top side of each end of the frame front cross member, and align it with the second hole from the end. Pass a 1/2" x 1/4" cap screw through the hole in each backer plate.

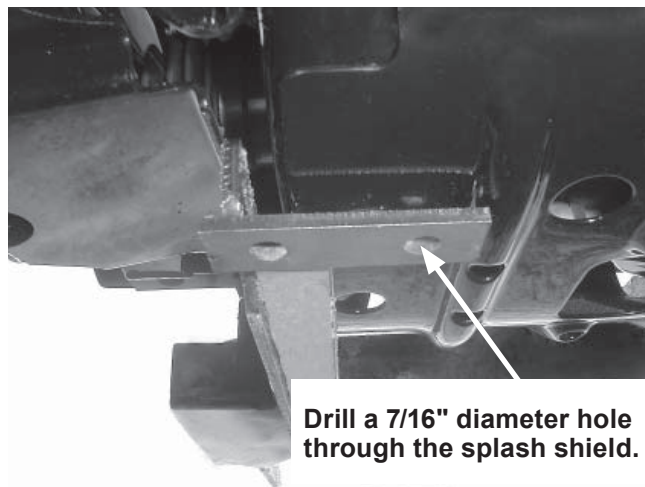


2. Position the upper tabs of the mount flush against the bottom of the front cross member, making sure that the 1/2" x 1-1/4" cap screws positioned in step 1 pass down through the holes in the upper tabs. Position the mount so that it is centered with the vehicle's frame, and loosely secure using 1/2" locknuts.

⚠ CAUTION

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

3. Using the inner hole of the rear mount tabs as a guide, drill a 7/16" diameter hole through the splash shield. Place a spacer between the Kawasaki frame's tube and the splash shield. Install the provided U-bolt over the frame tube, through the spacer, splash shield and rear mount tab. Secure with two 3/8" locknuts.



4. Repeat on opposite side.
5. Tighten all fasteners according to torque chart.

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



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