



Sentinel Handguard Fitment Issues

PowerMadd Sentinel handguards are designed for a universal fit, which means they will fit most any ATV, motorcycle or snowmobile. All you need is ½” of space on your handlebars near your grips. You may need to slide your controls one direction or the other in order to free up ½” of bar space.


There are a few situations where getting the ½” of space is just not possible. We have listed any of these situations that we are aware of below:

ATVs

Universal fitment concerns:

Mounting space – you have two mounting options for ATVs:

- 34452 ATV/MX Mount - you will need ½” of space on the bars as close to the grips as possible. You can either slide your controls and levers over a bit, or mount the handguard on the inside of the controls.
- 34269 Tri-Mount – mounts just past the bend in the bars on the down-slope portion of your handlebars. This mount is a very good option for many utility ATVs which tend to have larger control pods and less room on the bars for the ATV/MX mount. See the Yamaha Grizzly note below.

Kawasaki	KFX700	All Kawasaki KFX700 ATV's require the use of the 34269 Tri-Mount which mounts past the bend in the bars on the down-slope where there is plenty of room.
Yamaha	2007-2013 Grizzly	<p>In 2007 Yamaha added another master cylinder to the Grizzly model. The two master cylinders and all the controls beneath them do not leave any room for the Sentinel mounting brackets from 34452 ATV/MX mount kit.</p> <p>Use the 34269 Tri-Mount which mounts past the bend in the bars on the down-slope where there is plenty of room.</p> 



Snowmobiles


Universal fitment concerns:

Make sure you have enough room between your handlebars and your windshield. After turning your bars all the way to the left and right you will need 6.5" of space between the grip and shield to run handguards.

Mounting space – you have two mounting options for snowmobiles:

- 34450 Snowmobile Mount - you will need ½" of space on the bars near the grip or just on the inside of the controls.
- 34269 Tri-Mount – mounts just past the bend in the bars on the down-slope portion of your handlebars. This mount may not work if you have a bar pad or molded piece covering your bar clamps.

Polaris	2008 RMK Mountain	<p>Some models have a welded tab on the bars to mount the grab bar; this does not leave enough room for the 34250 Snowmobile Mount Kit mounting bracket.</p> <p>Use the 34269 Tri-Mount which mounts past the bend in the bars on the down-slope where there is plenty of room.</p> 
Yamaha	Viper	<p>If you don't have a low windshield or have raised your handlebars you will have an issue with the guards hitting the windshield.</p> 

		<p>Viper – brake side</p>  <p>Viper – throttle side</p>
Arctic Cat	2012-2015 Arctic Cat Pro Cross/Climb; Polaris Axys; SR Viper	<p>With the new Hayes brake that Arctic Cat, Polaris and Yamaha are using, there is not enough room to use the 34450 mount kit. We now have a Hayes Brake mount kit for the Sentinels handguards(34454). You can also use the 34269 Tri-Mount which mounts right next to the riser on the race style bars where there is plenty of room. If your sled has a molded grad strap, use 34454.</p>

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Installation Instructions for installing the PowerMadd Hand Wrap 34253 on the new Sentinel Handguard

REQUIRED: 34400 - 34410 Sentinel handguard (installed), 34452 Sentinel ATV/Motorcycle Mount Kit installed and 34253 Hand wrap kit

NOTE: Both Hand Wrap brackets have a bend next to where they mount on the handlebar to give relief for the hands. Each side has its own specific bracket. These instructions will explain how to install one side. Then repeat the instructions for the other side. *You must have 7/8" bars that are hollow for this system to work.*

NOTE: These instruction assume that your new Sentinel Handguards have already been installed using the 34452 ATV/Motorcycle Mounting Kit. If they have not, please follow the installation instructions provided with the 34452 mount kit.

NOTE: If your handlebar already has holes in the end of each grip, skip to **STEP 2**, otherwise continue with **STEP 1**.

STEP 1: Clutch Side: Cut or drill a 1/2" hole in the end of the grip or completely cut the end of the grip off. The best way is to drill a hole in the grip.

Throttle Side: Remove the throttle tube from the handlebars. Cut or drill a 9/16" hole in the end of the grip and throttle tube or use a knife to cut off the end of the grip and a hack saw to cut off the end of the tube. Then reinstall the throttle tube onto the handle bars.

STEP 2: Aluminum Handlebars: Assemble the Hand Wrap clamp onto the bracket by inserting the flat head screw through the bracket and threading into the cone (as shown in picture). Insert the clamp assembly into the end of the handlebar and tighten the flat head screw with a 5mm hex wrench so the bracket is slightly loose.

Steel Handlebars: Assemble the Hand Wrap clamp onto the bracket by inserting the flat head screw through the bracket, sliding on the rubber tube and threading the flange nut onto the screw (as shown in the picture). Insert the clamp assembly into the end of the handlebar and tighten the flat head screw with a 5mm hex wrench so the bracket is slightly loose.

Helpful Hint: Apply lubricant between the flat head bolt and the bracket. This will enable you to get the Hand Wrap clamped tighter to the handlebars.

STEP 3: You will need to drill a hole in the Sentinel Handguard somewhere in this area of the handguard. To find the location, move the Hand Wrap that is installed on the end of your bars up to the Sentinel Handguard. Mark this location. See photo 1.

STEP 4: With a 1/4" drill bit and using the marked location as a guide, drill through the Sentinel Handguard. See photo 2.

STEP 5: Attach the Sentinel HSandguard to the bracket with a button head screw and 4mm hex wrench. Then tighten the clamp screw at the end of the bars until the brackets do not move. See photo 3.

Aluminum



Steel



Photo 1



Photo 2



Photo 3

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Installation Instructions for installing the Star Series mirror 34289 on the Sentinel Handguard

REQUIRED:

34400 - 34410	Sentinel Handguard (Installed)
34450 - 34454	Sentinel Mount Kit (installed)
34289	Mirror kit

Note: Please read the instructions provided with the mirror kit to get familiar with the installation.

- STEP 1:** Use the marked location on the back side of the Sentinel Handguard as show in the photo and drill a ¼” hole.
- STEP 2:** Attach the mirror to the front of the Sentinel Handguard using the short button head screw for the fixed mirror option or the long button head screw for the folding option (included in the 34289 kit). Slide the button head screw through the mirror and then through the drilled hole in the handguard. Use the square nut to fasten with the fixed mirror option. For the folding mirror option slide the spring onto the screw and tighten the lock nut until the screw is flush with the end of the lock nut.
- STEP 3:** Once mounted, adjust mirrors by rotating them to the desired position.



LIMITED WARRANTY

POWERMADD warrants this product to be free from defects in material and workmanship under use for the purpose it was intended. POWERMADD shall not be liable for damage or injury caused by defective materials or workmanship. POWERMADD may elect to repair or replace this product, but is the sole judge of any defects in their product. This warranty does not cover any labor costs to remove or reinstall this product and is effect for one year from the original purchase date.