



TURBO TAMER

pDrive Clutch Kit

Patent
Pending

“Tamers were developed out of a need for my sled to fit me. Ski-doo did an awesome job of making a generic clutch setup. The original setup works great for some but I wanted something more. Tamers allow you to take advantage and fine tune it to fit you and your style.

By adding tamers to your stock clutching you gain tunability not previously available unless you spent \$500+. You have an easily tunable system that not only allows you to perfect your stock sled, but still compliments other goodies you may add.

The clickers work best on clicker 1. They are a simple but very effective system. They replace the factory left hand arms of the ramp assemblies and give you two more positions to add weight and tune the clutching. The heel weight cleans up the bottom end and lowers the engagement. The tip weight allows you to fix the over revving issues, without making the mid range doggy, as if you were to add weight to your clicker bolt.

The engineers who developed the stock system did an awesome job. I wanted to find a way to fine tune it specifically to my preference and now you can too! Like our customers, we love to tune. We are testing other setups besides stock and ask customers to share their experiences and setups with us!”

Jeff Lasko, Riderz Head Mechanic.



Kit Contents

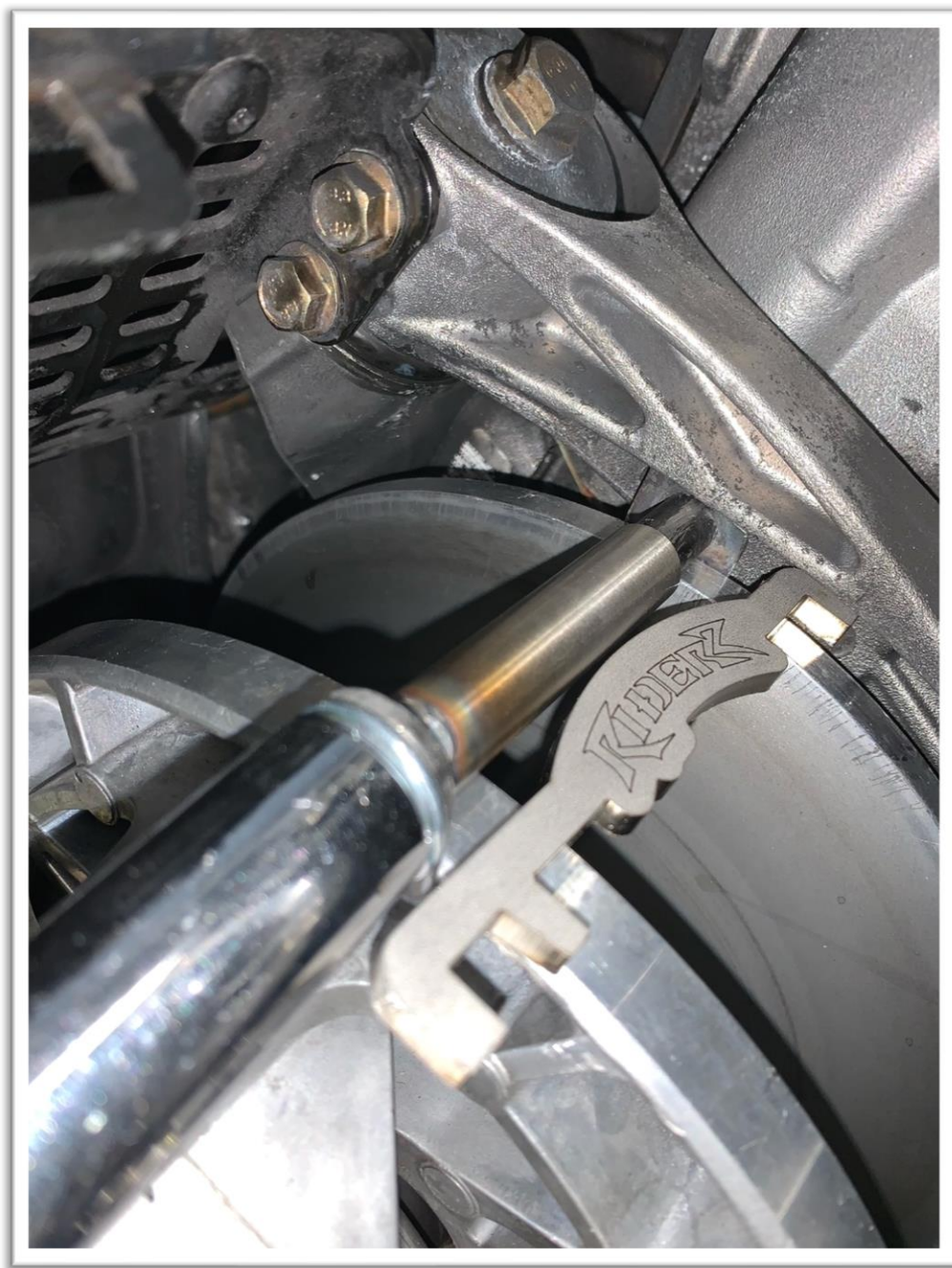
- 3 - Turbo Tamer Arms
- 1 - Clutch Compression Tool
- 1 - Clutch Holder Tool
- 1 - 5mm x 70mm Bolt, used for removing and installing Pivot Pin
- 3 - 5mm x 6mm Weight Screws (7.6 g)
- 3 - 5mm x 8mm Weight Screws (1.8 g)
- 6 - 5mm x 10mm Weight Screws (2 g)
- 6 - 5mm x 12mm Weight Screws (2.2 g)
- 3 - 5mm x 16mm Weight Screws (2.75 g)
- 3 - 5mm x 20mm Weight Screws (3.28 g)
- 6 - 5mm x 10mm x 1mm Weight Washers (0.33 g)
- 18 - 5mm x 10mm x 2mm Weight Washers (0.66g)



- After Removing LH side panel, clutch cover, and drive belt, you are ready to start removing the weights.
- Insert clutch compressor at an approximate 45° angle, as in picture. This will allow you to get it in behind the fixed sheave.
- Once it is behind the sheave, attach the other end to the sliding sheave.



- Rotate clutch, clockwise, so compressor tool gets hooked between fixed clutch sheave and motor mount frame.
- Now tighten nut to compress clutch sheaves together.



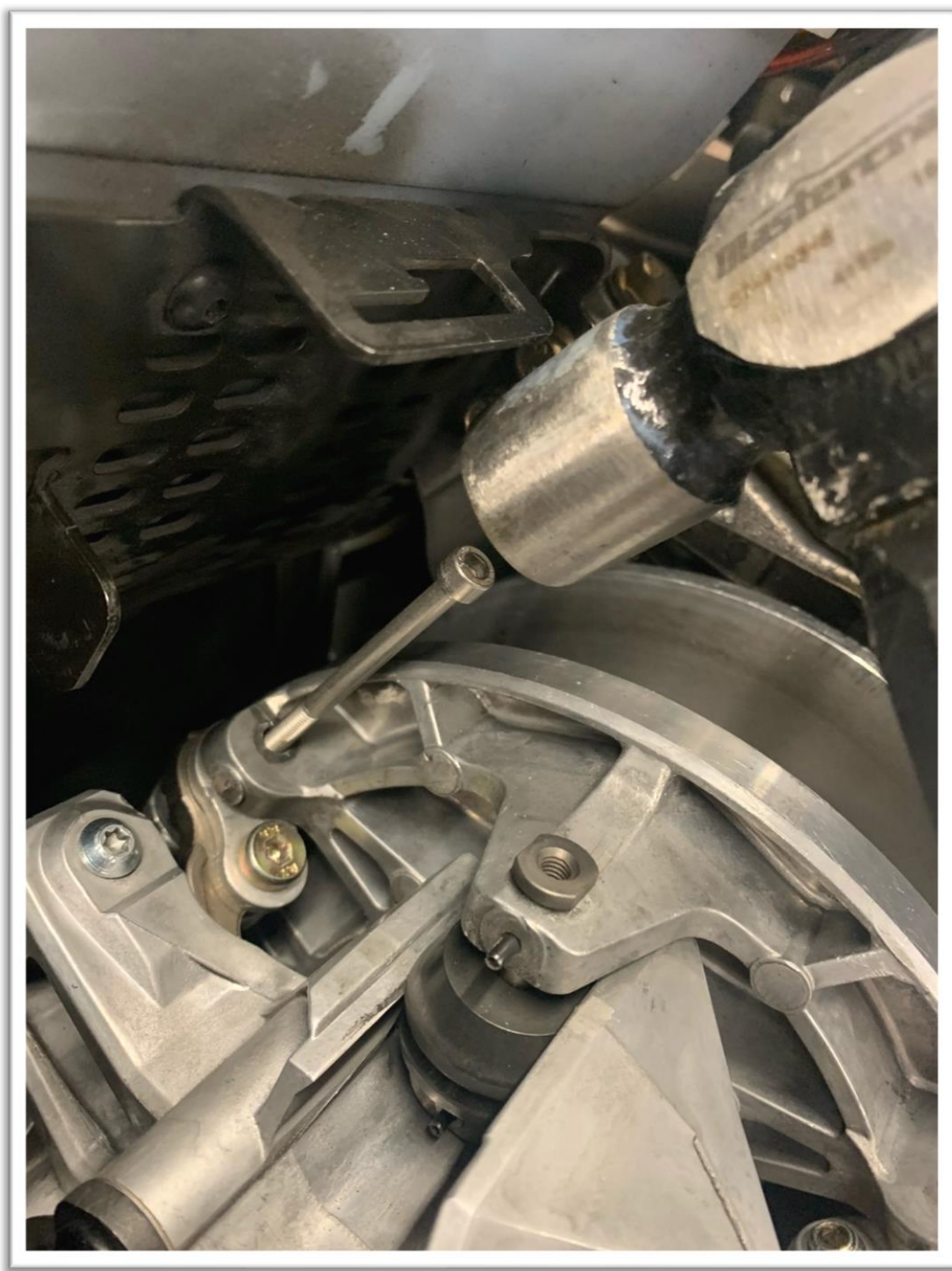
- Install clutch holder as shown. This will allow you to get holder in behind fixed sheave.
- Once behind, rotate so tab is hooking on sheave.



- Once clutch is compressed enough, make sure holder is completely positioned and you can loosen and remove compressor tool.
- Now you can rotate clutch to remove all three ramps.



- Now you will remove the silver T25 Pivot Pin screw.
- Now is also a good time to loosen the clicker bolts as well.



- Install supplied 5mm x 70mm screw, to use as a removal tool.
- Tap out pivot pin, so ramp assembly can be removed.



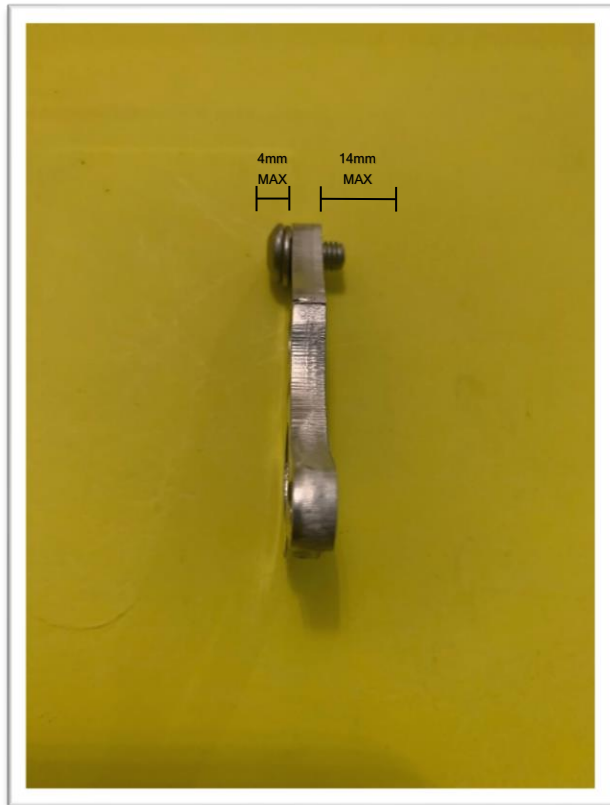
- You can now remove ramp assembly.



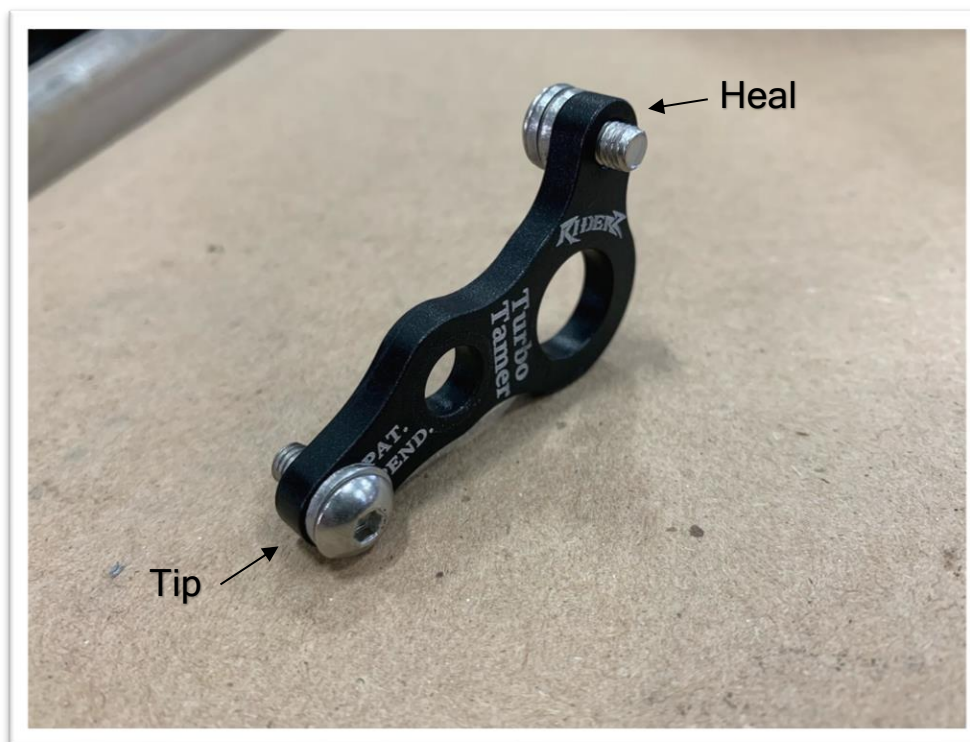
Stock Ramp Setup



Ramp with Turbo Tamers installed.



Note: Do not allow head of screw to extrude any more than 4mm. Do not install more than 1 washer on screw.



Clutch Tuning

The following chart shows approximated RPM changes. When adding 1 gram in both tamer locations, as well as Ski-doo clicker location.

	Heal Weight	Clicker Weight	Tip Weight
Effect at Engagement	Lowers by approximately 90 RPM	Lowers by approximately 20 RPM	Lowers by approximately 15 RPM
Effect at peak RPM	Raises by approximately 80 RPM	Lowers by approximately 60 RPM	Lowers by approximately 75 RPM

*Subtracting 1 gram will have opposite reaction

3 - 5mm x 6mm Weight Screws (7.6 g)

3 - 5mm x 8mm Weight Screws (1.8 g)

6 - 5mm x 10mm Weight Screws (2 g)

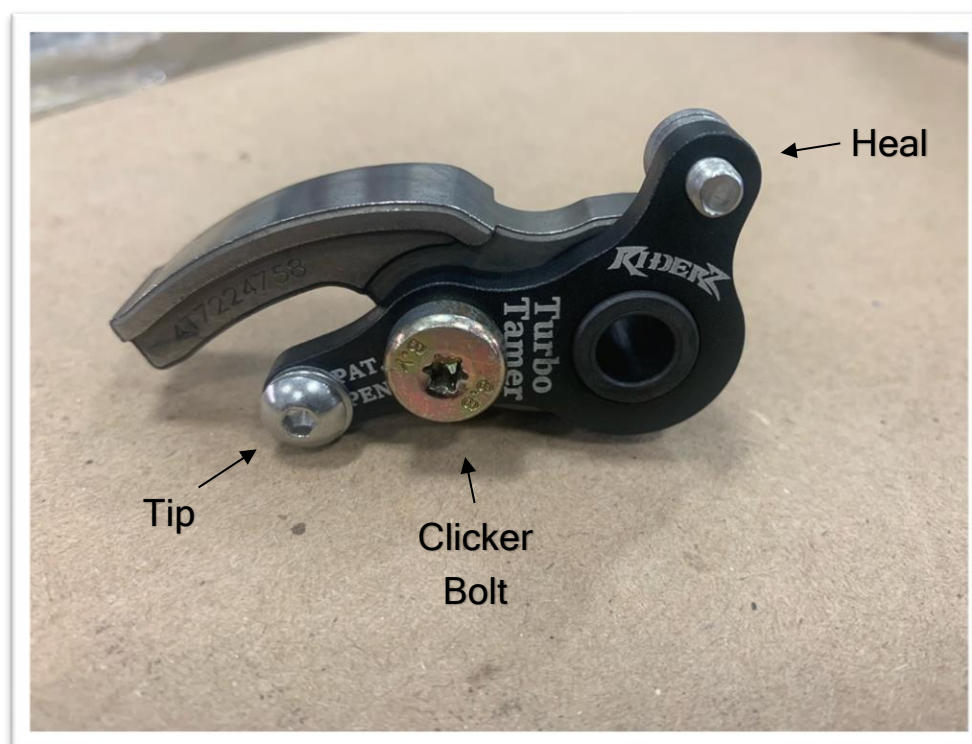
6 - 5mm x 12mm Weight Screws (2.2 g)

3 - 5mm x 16mm Weight Screws (2.75 g)

3 - 5mm x 20mm Weight Screws (3.28 g)

6 - 5mm x 10mm x 1mm Weight Washers (0.33 g)

18 - 5mm x 10mm x 2mm Weight Washers (0.66 g)



Initial Setup and Contents

The following chart provides an initial setup for your Turbo, With stock clutching components.

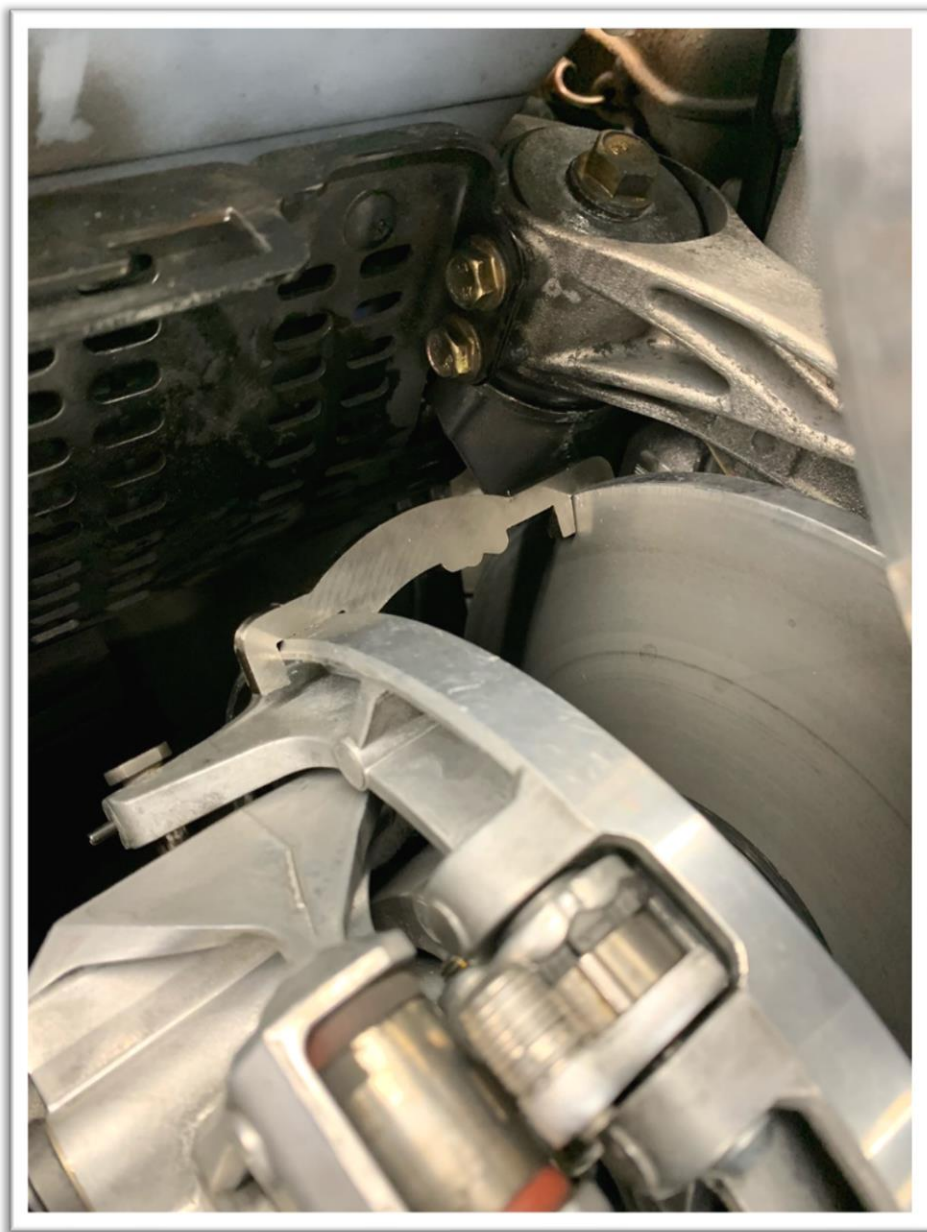
TURBO	Heal Weight	Clicker Weight	Tip Weight
2020.5	10 mm screw One 2 mm washer One 1 mm washer	Stock	8 mm screw
2021	10 mm screw One 2 mm washer One 1 mm washer	Add 3mm Ski-doo washer (sold separately SKU# 486016042)	10 mm screw One 2 mm washer
2022	10 mm screw One 2 mm washer One 1 mm washer	Stock	10 mm screw One 2 mm washer

The following chart provides an initial setup for your Non-Turbo, With stock clutching components.

NON-TURBO	Heal Weight	Clicker Weight	Tip Weight
2017-2022	12 mm screw Four 2 mm washer	Stock	Empty



- Once again, install supplied 5mm x 70 mm screw and tap pivot pin back in.
- Reinstall silver T25 screw, with blue Loctite and torque to 44 lb.in.
- Tighten clicker bolt to 71 lb.in.



- The tip weight can be adjusted while the ramp is installed. The clutch does not need to be compressed all the way; the holder can be installed as shown (lettered side facing the front of the sled).
- This will give you room to access the tip screw.



- Tip screw can be accessed once clutch is slightly compressed.