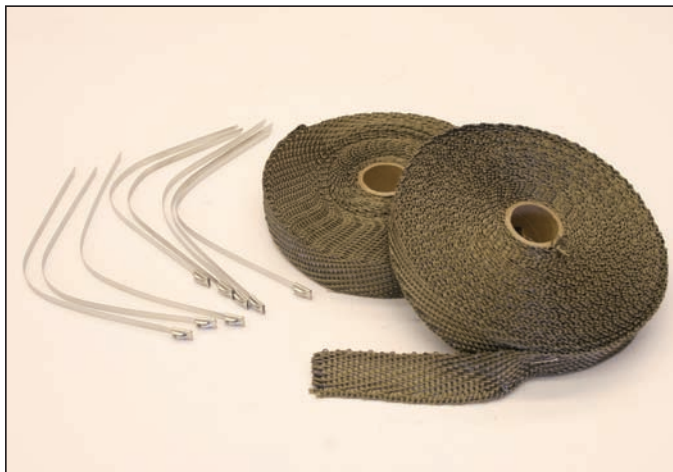


# TECH

## Design Engineering, Inc. Titanium Exhaust Wrap

Story and Photos by Mark Chryst

Design Engineering is improving on an already proven product by introducing a new and improved design called Titanium Exhaust Wrap. This exhaust wrap is constructed from pulverized lava rock then woven to give the material a titanium-like strength and toughness. Titanium Exhaust Wrap is extremely durable and is capable of handling more heat (up to 1800° continuously) than any other wrap found on the market today. Wrapping your pipes with this will help to prevent you from burning your leg and it will improve the flow of exiting exhaust gases which translates into improved performance. Titanium Pipe Wrap from DEI is available in one and two inch widths and 15' and 50' lengths.



These are the rolls of 1"x50' Titanium Exhaust Wrap and 8" Stainless Steel Locking Ties that we will be using to wrap up a set of pipes.



Not only will the Titanium Exhaust Wrap improve the performance of this bike but it will also improve the appearance of the pipes which are slowly losing their surface paint and beginning to look unsightly.



It will be easier to wrap the headers with the exhaust off the bike, so start by loosening the rear mounting hardware.



Loosen the exhaust header bolts on the front cylinder.



Loosen the header bolts on the rear cylinder as well.

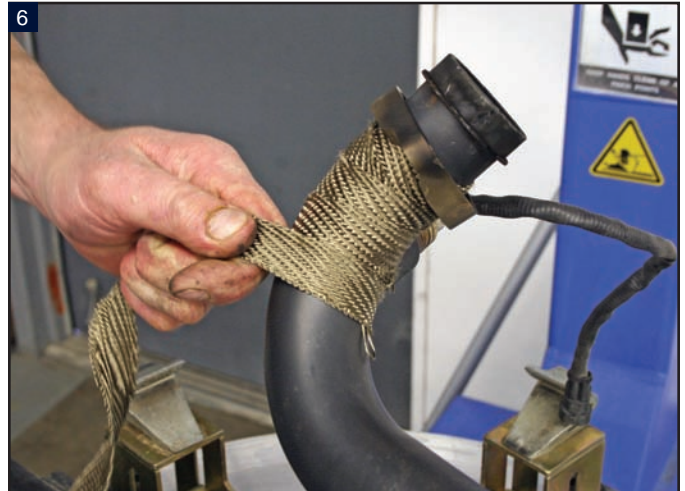


Unplug the oxygen sensor cables from both the front and rear pipes.

Titanium Exhaust Wrap



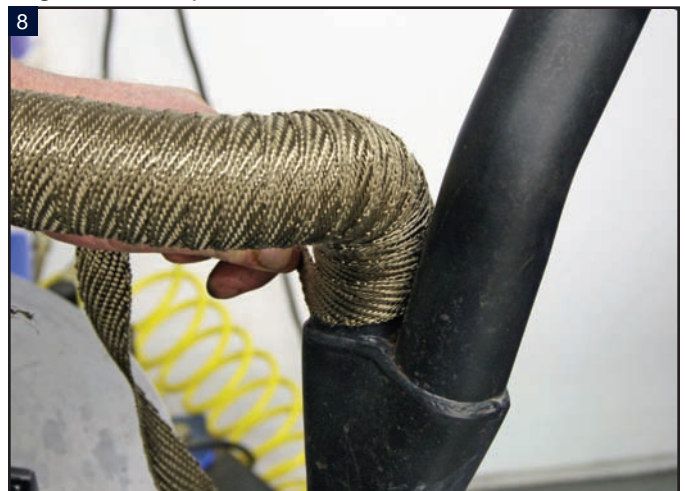
5 Remove the exhaust system from the bike and use a vice or some other method to hold the pipes secure without damaging them.



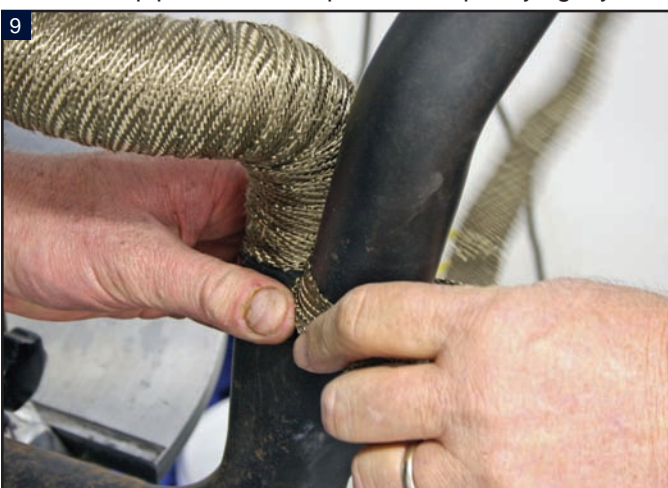
6 Start wrapping the pipe with the Titanium Exhaust Wrap by going around the pipe while tightly overlapping the edge of the wrap.



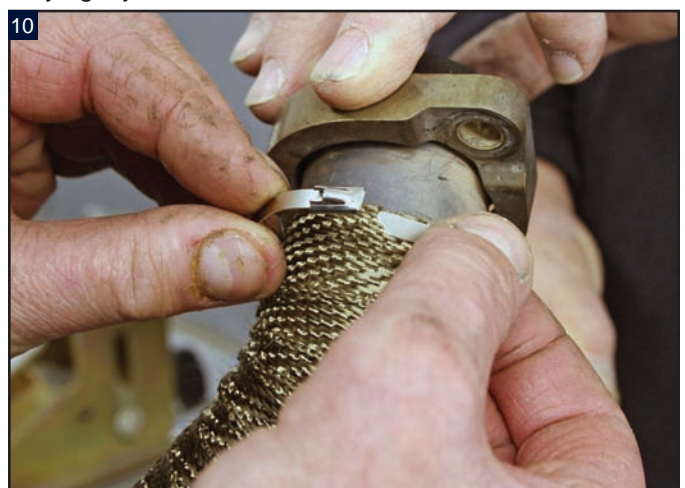
7 The key word here is "tight". Every pass that you make around the pipe, be sure to pull the wrap very tightly.



8 Wrap all the way to the end of the first head pipe and pull very tightly.



9 If done correctly, you can transition over to the second pipe and wrap back up without cutting the exhaust wrap.



10 Tightly wrap the second header pipe all the way to the end. Pull the wrap back underneath itself then secure it with a locking tie.



Use pliers to pull on the tie, making it as tight as possible. Snip off the excess material.



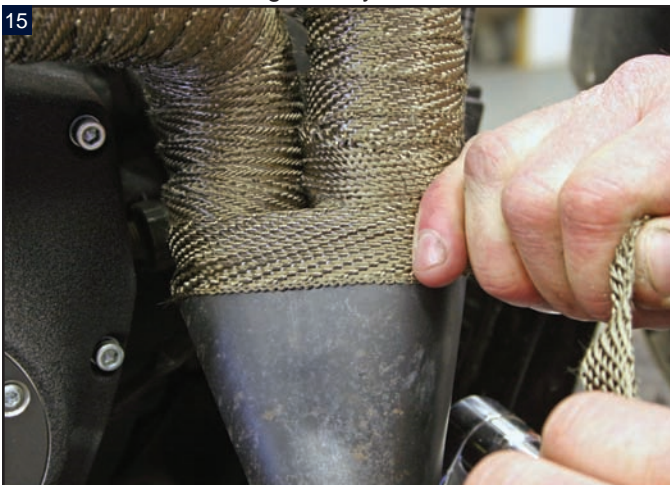
You can use a locking tie to secure the start of your wrap and at as many other locations on the pipe as you feel are necessary.



To wrap the remainder of the pipe it is easiest if the head pipes are secured. Mount the pipes and install the hardware, but do not tighten it yet.



With the mounting hardware loose, the pipe can be pulled away from the bike allowing for the passage of the wrap behind it.



Begin wrapping the remainder of the exhaust pipe, start where the headers merge and work toward the end.



Continue tightly wrapping the Titanium Exhaust Wrap around the pipe until you have gone as far as desired.

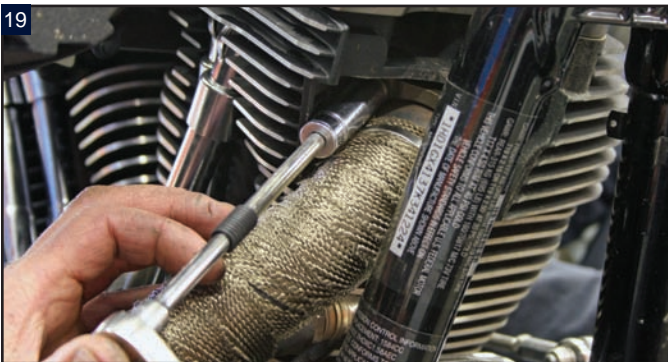
Titanium Exhaust Wrap



Secure the wrap by doubling it over itself and use a locking tie to hold it in place. Cut off any excess wrap.



Tighten the head bolts on the rear cylinder.



Tighten the head bolts on the front cylinder as well.



Install and tighten the rear exhaust mount hardware and this job is complete.

**DESIGN ENGINEERING, INC.**

Titanium Exhaust Wrap  
Part # 010126

Stainless Steel Locking Ties  
Part # 010201

800.264.9472

[www.designengineering.com](http://www.designengineering.com)



Now that the Titanium Exhaust Wrap is installed, the pipes on this bike are looking better than ever, they will perform better too.