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Road Star Warrior Forum : Yamaha Star Warrior Forums > Warrior Forums > Technical Discussion

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Loser (me) broke his fuel pump (Upd w/pics pg 2)

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08-15-2006, 05:57 PM

#1 (permalink)

condrons Senior Member



Join Date: Jul 2004 Posts: 5,457

Loser (me) broke his fuel pump (Upd w/pics pg 2)

Well, I'm nominating myself for loser of the week. I had to dig into my under seat wiring to fix the broken connector on my battery tender. Easy fix, right? Well, I fixed it fine but when I was buttoning it back up, I couldn't get the tray on the top of the battey to sit right...the fuse for the battery tender wiring was in the way...Thought I got it back in an ok place and the last thing I did was secure the ECU with the strap and tuck my PCIII on top of my fuel pump. Fire her up to make sure I didn't short anything and all is well so I put the seat back on and it's a little snug....seemed normal. So I sit on the seat to ease it back into the garage and POP goes something under the seat and it shuts off....Me thinking I pinched a wire, I take the seat back off and turn the key off and back on to see if I have all the electronics....FUEL STARTS SPRAYING EVERYWHERE....The PCIII wasn't tucked up under that metal bracket far enough and it broke the connector on the top of the fuel pump when I sat down...Guess what, It's only sold as a complete assembly....500.00!!![B]]

I hate to attempt a repair on a plastic fitting with it under fuel pressure...I don't even know exactly where it's broken I'll have to get it apart this weekend. But it's a connector that goes into the white plastic top of the fuel pump....looks like one molded piece on top. Any ideas?

I'm not very happy right now. Oh yeah, and my wife just quit work to go back to school...I think I just lost my Speedstar Cams! Oh well, dreaming is fun.



08-15-2006, 07:08 PM

#2 (permalink)

xharleyrdr Senior Member

Join Date: Apr 2004 Posts: 1,931

Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)

That sucks big time! I feel your pain.



08-15-2006, 07:18 PM

#3 (permalink)

jspencer Senior Member

Join Date: Sep 2002 Location: Florida Posts: 4,352

Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)

Wow that is a lot of money



08-15-2006, 08:24 PM

#4 (permalink)

vector18 Senior Member

Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)

Sorry to hear about your mishap, but thank you for posting it so others might learn from it.



Join Date: Jul 2003  
Location: NY  
Posts: 10,285



08-15-2006, 08:49 PM

#5 ([permalink](#))

**Bladerunr**  
Senior Member



Join Date: Jul 2003  
Location: Valley Springs 95252  
Posts: 2,214



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

Sounds like something I would do?! I'm going out to check mine right now!

Might be time to get an aftermarket HiPerf pump. Getting the pump and filter out of that tank would add fuel capacity.

I can see where that fitting is pressing hard on the pcIII. Where else can we put the thing.



08-15-2006, 10:50 PM

#6 ([permalink](#))

**PapaJ**  
Senior Member

Join Date: Jun 2006  
Posts: 1,396



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

I'm sorry to hear about it, but thanks for the info. Personally I hate where the PCIII has to sit, you just proved it's an accident waiting to happen.



08-16-2006, 04:50 AM

#7 ([permalink](#))

**dude143a**  
Senior Member



Join Date: Jun 2004  
Location: Niel Belgium  
Posts: 1,730



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

I am thinking out loud here so dont shoot if i say something incredibly stupid (it will just be that i did not think off it[[img]/emoticons/emotion-5.gif[/img]])

Is it not possible to move the PCIII to the toolbag location and vice versa, just rearrange the toolbag around the connector and solution found???



08-16-2006, 04:54 AM

#8 ([permalink](#))

**vector18**  
Senior Member



Join Date: Jul 2003  
Location: NY  
Posts: 10,285



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

My pciii is where my toolbag goes. I have a few open ends and allen keys just laying under my seat.



08-16-2006, 05:15 AM

#9 ([permalink](#))

**assmunch360**  
Member

Join Date: Apr 2005  
Posts: 86

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

That F'n blows. can you post any pics. There are plenty of creative people here that might be able to give you some ideas. I'm also wondering if that plastic 90 degree nipple can be welded back on. No joke and no laughing. There are guys in my trade, including myself, that weld plastic pipe together. Actually fuse not weld. I'm also guessing that it was a 90 degree nipple. Post some pics bro



08-16-2006, 05:18 AM

#10 (permalink)

**mongo 11**

Senior Member



Join Date: Apr 2004  
Posts: 839

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

Sorry to hear about your mishap.

Yea, I never liked where I have the PCIII, its tough to get tucked back under there sometimes.

I'm going to look into mounting it where the tool kit goes.



08-16-2006, 06:20 AM

#11 (permalink)

**mark1**

Senior Member

Join Date: Dec 2005  
Posts: 1,682

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

Oh man! Bummer! Ouch! Be glad you weren't smoking!



08-16-2006, 06:35 AM

#12 (permalink)

**clatterblast**

Senior Member



Join Date: Jul 2005  
Posts: 650

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

It could prolly be repaired-- don't buy a new one just yet. There are products that can melt the plastic back together...



08-16-2006, 06:52 AM

#13 (permalink)

**condrons**

Senior Member



Join Date: Jul 2004  
Posts: 5,457

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

I'll know more as soon as I get it taken apart. It looks like a 90 degree fitting that has a black hose clamped on it. The problem is that it's definitely a high pressure connection. I'll take some pics when I get it apart. I might tear into it tonight, I can't stand to let things like that sit. I'm all for a repair if it looks like it can be trusted.

I'll look for opinions on repair when I get it apart.

Thnaks guys....Be careful with your PCIII.



08-16-2006, 07:07 AM

#14 (permalink)

**lagalaxy8**

Senior Member



Join Date: Feb 2003  
Location: Zanesfield, Ohio  
Posts: 12,151

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

That sucks big time.

**Bo's Bash VIII August 23-26 2012 ("Warrior" Meet In Ohio) Be There!**

<http://www.rswarrior.com/forums/36-u...hio-there.html>



08-16-2006, 07:53 AM

#15 (permalink)

**jdm1200**

Senior Member

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**



That sounds like something I would do too.

Join Date: Jun 2004  
Location: DeRidder, La  
Posts: 379



08-16-2006, 07:00 PM

#16 (permalink)

**wilcon**

Senior Member

Join Date: Jul 2004  
Posts: 275



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

Moved mine today to tool kit location. Not gonna chance it after this story cus I'm no light weight.



08-16-2006, 07:26 PM

#17 (permalink)

**Brad10541**

Member

Join Date: May 2006  
Posts: 75



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

dont repair it if you forced it and broke it with out looking  
Repairing it is only going to lead to more problems and now your adding gas at a high pressure to the mix  
which will be a vapor (not good)  
get the part and consider it leason learned



08-17-2006, 05:21 AM

#18 (permalink)

**BlackStar**

Senior Member



Join Date: Jul 2005  
Location: Roanoke, Indiana  
Posts: 711



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

\$500.00 fuel pump!! Another reason not to let that lower sump tank run dry since the pump is fuel cooled.

**R.I.P. Justin Randol 1989-2008 Ride Like the Wind Son!**

2010 FJR1300  
2007 FZ1  
2005 Warrior  
1978 Suzuki GS1000



08-17-2006, 08:32 AM

#19 (permalink)

**Opelgt**

Senior Member

Join Date: Jun 2004  
Posts: 175



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

I do not have access to my Bike to get a look at my fuel pump this month as I am in malaysia without 2 wheels, but consider the possibility of tapping the plastic and putting in a threaded brass fitting. I did this once before on a cager and it has worked for 10 years now.



08-17-2006, 10:25 AM

#20 (permalink)

**condrons**

Senior Member



Join Date: Jul 2004  
Posts: 5,457



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2)**

quote:Originally posted by Opelgt

I do not have access to my Bike to get a look at my fuel pump this month as I am in malaysia without 2 wheels, but consider the possibility of tapping the plastic and putting in a threaded brass fitting. I did this once before on a cager and it has worked for 10 years now.

That is exactly what I envisioned. I'm going to have an engineer at work look at it. He's no much for hygiene but he's a sharp guy with this kinda stuff. I still haven't taken it out, hopefully tonight.

EDIT QUOTE

08-18-2006, 04:55 AM

#21 (permlink)

**condrons**

Senior Member



Join Date: Jul 2004  
Posts: 5,457

**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2 )**

Ok, I finally got it apart...that thing is a bear to get out. You have to take the bolts out of the entire tank to lift the pump out, otherwise it hits the frame and won't come all the way out. So, as you can see, the small output nipple is busted clean off. My plan is to flatten it out on top, tap the plastic and thread an elbow on it with a barbed end and replace the hard fuel line that connects there with some high pressure stainless braided fuel line. I plan on covering the brass elbow threads with an epoxy and making an epoxy volcano around the bottom where the brass meets the plastic. What does everyone think?

I wish I could use a fitting with threads and a nut on the other side but you can't get to the other side of that plastic top piece, the assembly on the bottom is melted together, I'd destroy it trying to get in there.

As you can see, the low/no pressure input lines are stout AND replacable (at least one is not molded) but the high pressure output is a cheap molded small nipple....Makes no sense to me.

**Insert Image:**



47.82\*KB



EDIT QUOTE

08-18-2006, 07:31 AM

#22 (permlink)

**parabellum**

Senior Member

Join Date: Jun 2006  
Posts: 1,449

**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2 )**

Rather than flatten it out...I would tap it as is...that extra material right there will only add strength and you are just going to cover the entire thing in epoxy anyway...



EDIT QUOTE

08-18-2006, 07:55 AM

#23 (permlink)

**condrons**

Senior Member



Join Date: Jul 2004  
Posts: 5,457

**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2 )**

quote:Originally posted by parabellum

Rather than flatten it out...I would tap it as is...that extra material right there will only add strength and you are just going to cover the entire thing in epoxy anyway...

You're right, I agree. My initial thought was to make it flat for a sealing surface but it'll be covered anyway.

Thanks.



EDIT QUOTE

08-18-2006, 08:47 AM

#24 (permalink)

**lagalaxy8**  
Senior Member



Join Date: Feb 2003  
Location: Zanesfield, Ohio  
Posts: 12,151



**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2)**

I'd try to fix it too. if it doesn't work you can always add more epoxy[[img]/emoticons/emotion-2.gif[/img]]

**Bo's Bash VIII August 23-26 2012 ("Warrior" Meet In Ohio) Be There!**

<http://www.rswarrior.com/forums/36-u...hio-there.html>



08-18-2006, 09:59 AM

#25 (permalink)

**parabellum**  
Senior Member

Join Date: Jun 2006  
Posts: 1,449



**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2)**

I guess the other question is: How to you test it out safely to ensure you don't have any leaks? Can you simulate the same pressure off the bike? I guess the old soapy water trick might work...



08-18-2006, 11:11 AM

#26 (permalink)

**condrons**  
Senior Member



Join Date: Jul 2004  
Posts: 5,457



**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2)**

quote:Originally posted by parabellum

I guess the other question is: How to you test it out safely to ensure you don't have any leaks? Can you simulate the same pressure off the bike? I guess the old soapy water trick might work...

Believe me, it freakin leaked like a muther when I broke it...at first it was just a crack and it SPRAYED....I broke it the rets of the way off taking it apart...I'll just look for spraying fuel again!



09-27-2006, 06:56 PM

#27 (permalink) ✓

**condrons**  
Senior Member



Join Date: Jul 2004  
Posts: 5,457



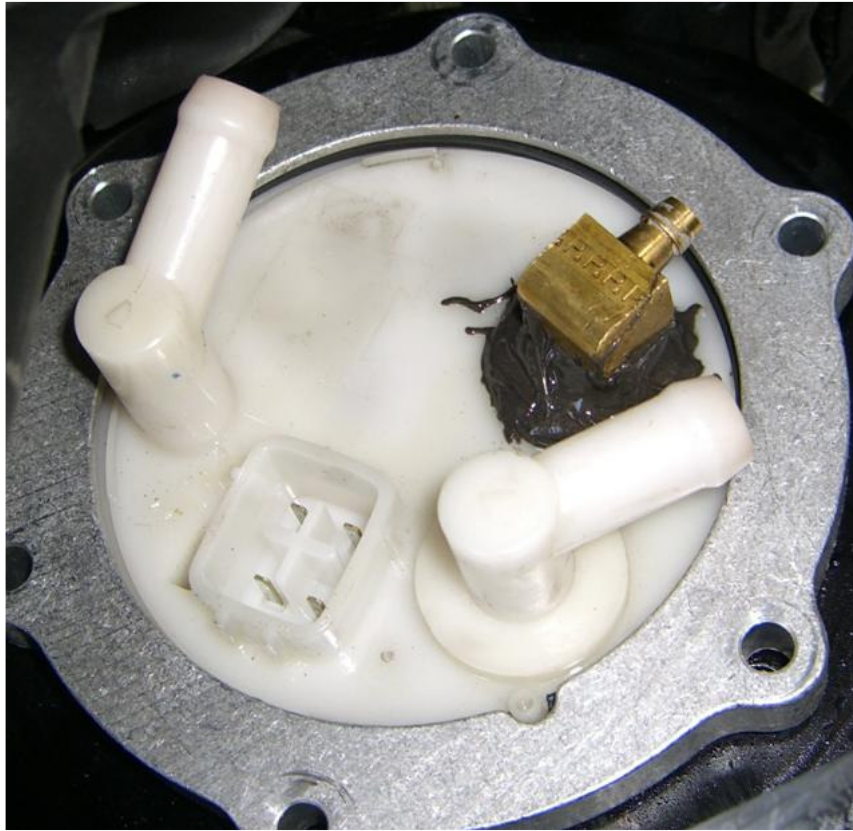
**Re: Losier (me) broke his fuel pump (Upd w/pics pg 2)**

Ok, sorry it's been so long, I hadn't forgot, I just never sat down and explained how the repair came out. I was able to get a brass elbow with a 3/8" NPT thread and a 1/4" barbed slip on fitting. The 3/8" was bigger than I wanted but all I could find. I had to go to a hose/hydraulics store to get that. I also got a piece of replacement fuel line to replace the stock line that had molded ends. I slowly drilled the hole in the top of the fuel pump bigger and bigger until I got it to just under the size of the 3/8" threaded elbow I bought. It turns out when you drill that hole out to that size, the "compartment" that it goes into in the other side of that plastic top is really narrow. When I drilled it out, the drill was slightly cutting into the walls on each side. I think this helped give the threads something more to bite into. I didn't tap the hole, I just let the threads cut their own path. With the walls on the other side, I wasn't worried about cracking it. After I threaded it in once to get threads, I pulled it out and covered the threads in JB Weld and then threaded it back in. I had scuffed up the top around the hole so more JB weld around the fitting would have a place to "grab" onto. After letting it dry, I put it back together and it hasn't leaked a drop. Cost me about 10.00 to fix. Much better than a 500.00 fuel pump. I did have to replace the fuel line that goes up to the steel line that feeds the injectors, I think it was 1/4" high pressure fuel line that I just clamped over the steel line. Works good, hopefully "Lasts long time". I'll get a picture posted of it all back together in a couple of days, I'm out of town right now.

Not pretty but it's worked for about 7 months now:

**Insert Image:**

This image has been resized. Click this bar to view the full image.



61.5KB



09-28-2006, 05:57 AM

#28 (permalink)

**jdpark**  
Senior Member

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

Very creative! Hope it works for you.

**Wide Open Throttle Fest II**

**2012 April 28-May 05**



Join Date: Nov 2004  
Location: Northwestern NC  
Posts: 5,325



11-28-2007, 01:20 PM

#29 (permalink)

**theguywhowantsawarrior**  
Senior Member

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

I just broke the same thing last night...I am pissed at myself.



Join Date: Feb 2007  
Posts: 156



11-28-2007, 01:48 PM

#30 (permalink)

**jabo**

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

Senior Member



Join Date: Feb 2004  
Location: Southeastern  
Kentucky  
Posts: 6,425



Condrons, thanks for sharing your mishap and the happy ending. I am sure this will help others. That is the whole purpose of such forums as these.



11-29-2007, 11:15 AM

#31 ([permalink](#))

**gchalifo**

Senior Member



Join Date: May 2006  
Location: oxford, mass  
Posts: 3,723



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

good save Ken!, I'd like to have your skills in my tool box when needed!!



11-29-2007, 11:22 AM

#32 ([permalink](#))

**ekmaint**

Senior Member



Join Date: Feb 2005  
Posts: 7,245



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

Great job



11-29-2007, 01:54 PM

#33 ([permalink](#))

**condrons**

Senior Member



Join Date: Jul 2004  
Posts: 5,457



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

That actually happened a year and 3 months ago....It's never leaked a drop since. Guess I'd consider it a success....

Be careful where you tuck your PCIII.



11-29-2007, 02:59 PM

#34 ([permalink](#))

**cbushmaker**

Senior Member



Join Date: Apr 2007  
Location: Portland  
Posts: 890



**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**

Nicely done. How hard is it to move the PCIII to the tool kit side (wiring wise)?



11-29-2007, 03:13 PM

#35 ([permalink](#))

**condrons**

Senior Member

**Re: Loser (me) broke his fuel pump (Upd w/pics pg 2 )**





quote:Originally posted by CBushmaker

Nicely done. How hard is it to move the PCIII to the tool kit side (wiring wise)?

Should reach, a lot of people removed their tool kit and put it there.

Join Date: Jul 2004  
Posts: 5,457



04-04-2011, 10:40 AM

#36 (permalink)

### abomb1

Member

Join Date: Feb 2006  
Location: Hammond, WI  
Posts: 35



I know this is an old thread, but this just happened to me over the weekend. I'll be trying the same repair tonight. One question I have is what kind of plastic the fuel pump is? The 2 epoxies I bought both said not for use on polyethelyne or polypropylene.



04-05-2011, 10:45 AM

#37 (permalink)

### alanh

Senior Member



Join Date: May 2004  
Location: \*\*  
Posts: 5,923



Quote:

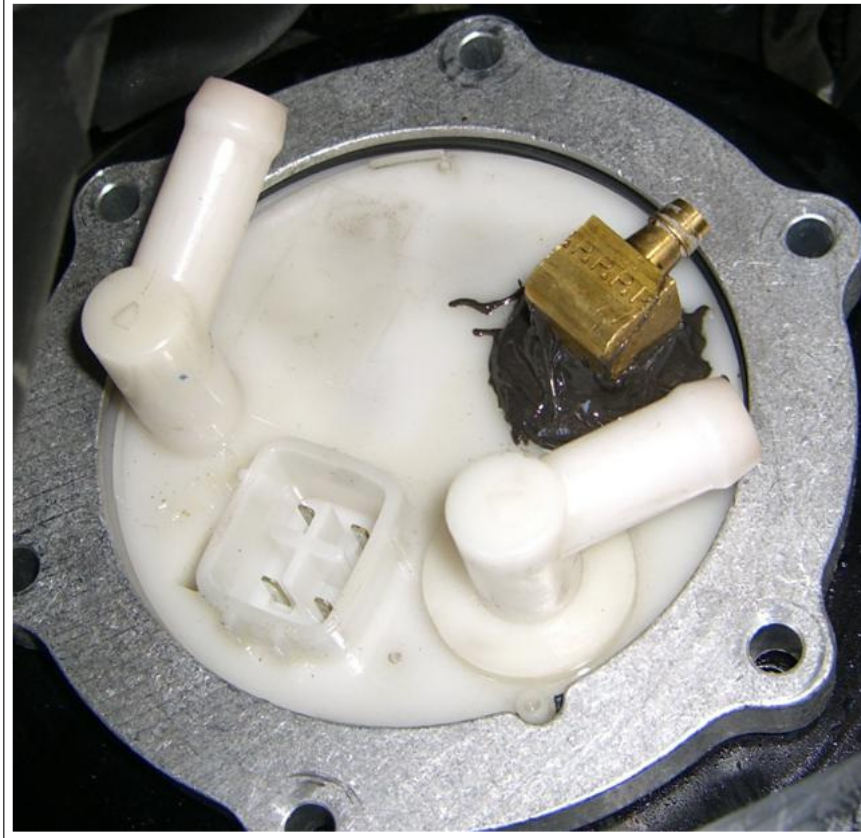


Originally Posted by **condrons**

*Ok, sorry it's been so long, I hadn't forgot, I just never sat down and explained how the repair came out. I was able to get a brass elbow with a 3/8" NPT thread and a 1/4" barbed slip on fitting. The 3/8" was bigger than I wanted but all I could find. I had to go to a hose/hydraulics store to get that. I also got a piece of replacement fuel line to replace the stock line that had molded ends. I slowly drilled the hole in the top of the fuel pump bigger and bigger until I got it to just under the size of the 3/8" threaded elbow I bought. It turns out when you drill that hole out to that size, the "compartment" that it goes into in the other side of that plastic top is really narrow. When I drilled it out, the drill was slightly cutting into the walls on each side. I think this helped give the threads something more to bite into. I didn't tap the hole, I just let the threads cut their own path. With the walls on the other side, I wasn't worried about cracking it. After I threaded it in once to get threads, I pulled it out and covered the threads in JB Weld and then threaded it back in. I had scuffed up the top around the hole so more JB weld around the fitting would have a place to "grab" onto. After letting it dry, I put it back together and it hasn't leaked a drop. Cost me about 10.00 to fix. Much better than a 500.00 fuel pump. I did have to replace the fuel line that goes up to the steel line that feeds the injectors, I think it was 1/4" high pressure fuel line that I just clamped over the steel line. Works good, hopefully "Lasts long time". I'll get a picture posted of it all back together in a couple of days, I'm out of town right now.*

*Not pretty but it's worked for about 7 months now:*

This image has been resized. Click this bar to view the full image.



Quote:

Originally Posted by **abomb1** *I know this is an old thread, but this just happened to me over the weekend. I'll be trying the same repair tonight. One question I have is what kind of plastic the fuel pump is? The 2 epoxies I bought both said not for use on polyethelyne or polypropylene.*

Based on Ken's repair using **J-B Weld** for the 90\* brass elbow i would be inclined to think that the mat'l is not polyethelyne or polypropylene based on the following link:

- [J-B Weld Company - Frequently Asked Questions](#)
  - [J-B Weld Company - Frequently Asked Questions](#)
    - **Q: Is there anything that J-B Weld WON'T bond to?**
      - A: J-B Weld will not adhere to, or bond well to:
        - Any flexible rubber surface
        - Leather
        - Vinyl
        - Canvass
        - Polypropylene plastic
        - Polyethylene plastic

**\*\*\* I would suggest testing the broken pc 1st \*\*\***

\*\*

2004 Warrior [Modifications](#) & [Accessories](#)  
[Wiring Diagram \(4-pg\)](#) Starting System (Advanced) & (Hand to Hand Combat)  
[Creator of the SS Laser Front Signal Bracket & Tuning Fork Lower Cowl Grille](#)

*Last edited by alanh; 04-05-2011 at 10:58 AM.*



04-07-2011, 06:24 AM

#38 ([permalink](#))

**abomb1**

Member

Join Date: Feb 2006  
Location: Hammond, WI  
Posts: 35



Thanks, I made the repair last night, tonight I'll see how it worked.



04-07-2011, 06:48 AM

#39 (permalink)

**crescent1101**

Senior Member



Join Date: Apr 2010  
Location: Fort Washington, Maryland  
Posts: 2,393



Go on ebay and I don't remember the seller name but he has salvage bike and is parting them out. Send him a picture to see if has the part. It could save you some money if he has them. I used them and they are pretty good.

[PinWall Cycle Parts Inc items - Get great deals on Harley Davidson, Yamaha Venture Royal Star items on eBay Stores!](#)

04-07-2011, 06:49 AM

#40 (permalink)

**crescent1101**

Senior Member



Join Date: Apr 2010  
Location: Fort Washington, Maryland  
Posts: 2,393



I guess I should have read further on in the thread before I posted



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