

# **INSTATRIKE**

**BY**



**Installation Manual**

**Ridley Auto-Glide**

# Limited Warranty

TOW-PAC, INC. warrants to the first end user purchaser that this product “MiniTrike” when purchased will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product for the period of one year from date of original purchase.

This warranty does not apply to tires or to the appearance of any item which has been damaged, defaced, been subjected to misuse, or which has been altered or modified in design or construction.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described above or to extend the duration of any warranties beyond the time period described above on behalf of TOW-PAC, INC.

## **NOTICE OF LIMITED LIABILITY**

Tow-Pac, Inc. warrants *only* components supplied by Tow-Pac, Inc. Tow-Pac, Inc. cannot be responsible for any components on owners motorcycle including frames, hardware, aftermarket accessories, etc. Owner is solely responsible for ensuring motorcycle is in sound mechanical order. Tow-Pac, Inc cannot be responsible for any damage due to improper installation of Tow-Pac components or use of any hardware (bolts, nuts, etc) on Tow-Pac components not supplied directly by Tow-Pac, Inc. Owner is solely responsible for installation of Tow-Pac components. Please refer to limited warranty for warranty details.

InstaTrike is designed for use on paved surfaces *only*. Use of InstaTrike on unpaved terrain may void warranty.

# Notice

***After your MiniTrike is installed, take some time to get used to “Trike” handling characteristics.***

- On a Trike you will ***steer*** rather than ***lean*** as you would on a conventional two wheel motorcycle.
- Take corners ***very slowly*** until you get used to the feel of cornering on a Trike.
- Remember to use your front brake in tandem with your rear brake. This will greatly increase your stopping power when in Trike configuration.
- With MiniTrike installed remember the outrigger wheels. Use caution not to run them into objects.
- Keep your feet up at all times.

# Installation Checklist

- Review entire installation manual
- Remove saddle bags (if applicable)
- Install receiver hitch and double check all bolts
- Assemble InstaTrike to receiver hitch
- Align InstaTrike wheels
- Double check all bolts for tightness
- Test ride InstaTrike slowly in an open area to familiarize yourself with handling characteristics

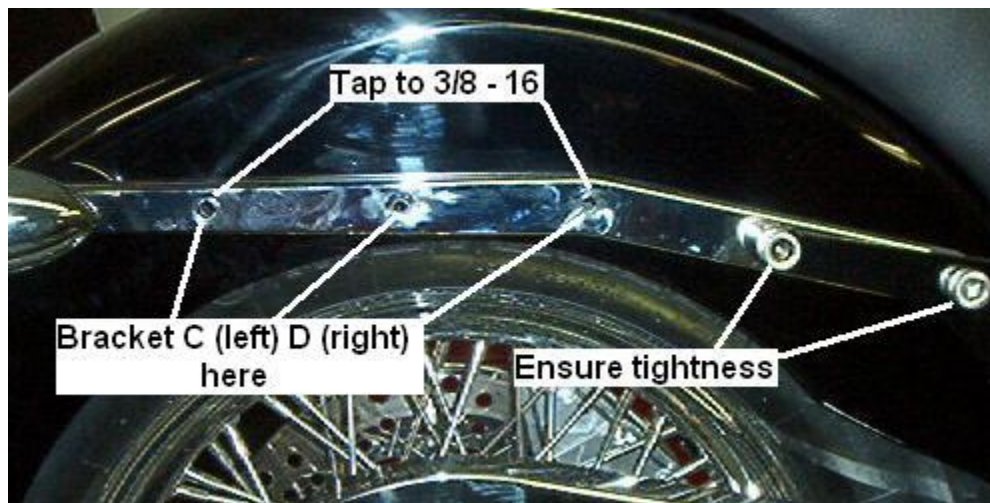
## Recommended Tools

7/16 wrench*	Allen (hex) wrench set
9/16 wrench* (2)	3/8-16 tap
5/8 wrench*	Tap/cutting oil (recommended)
11/16 wrench	Phillips screwdriver
3/4 wrench*	13/16 lug nut wrench
<i>*socket wrench optional</i>	

## Receiver Hitch Installation

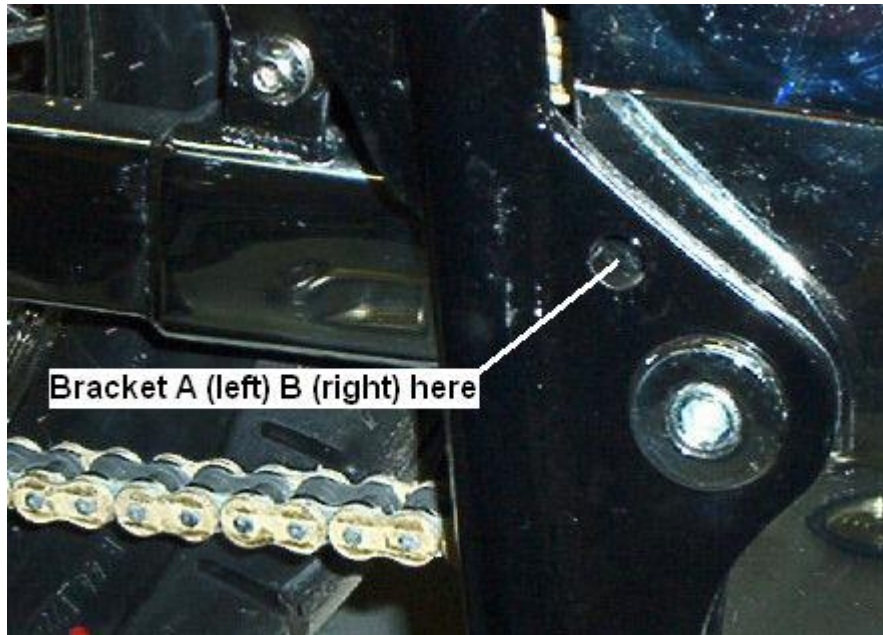
***NOTICE: Install all bolts and brackets loosely until all bolts and brackets are in place***

- 1) Place motorcycle in a secure upright position
- 2) Remove saddle bags (if applicable)
- 3) Remove rear fender mounting bolts (3 each side)
- 4) Tap indicated rear fender mounting holes with a 3/8" - 16 tap. (2 holes each side) *It is highly recommended that cutting/tap oil is used. Use care when tapping holes. Be certain to tap holes completely through.*

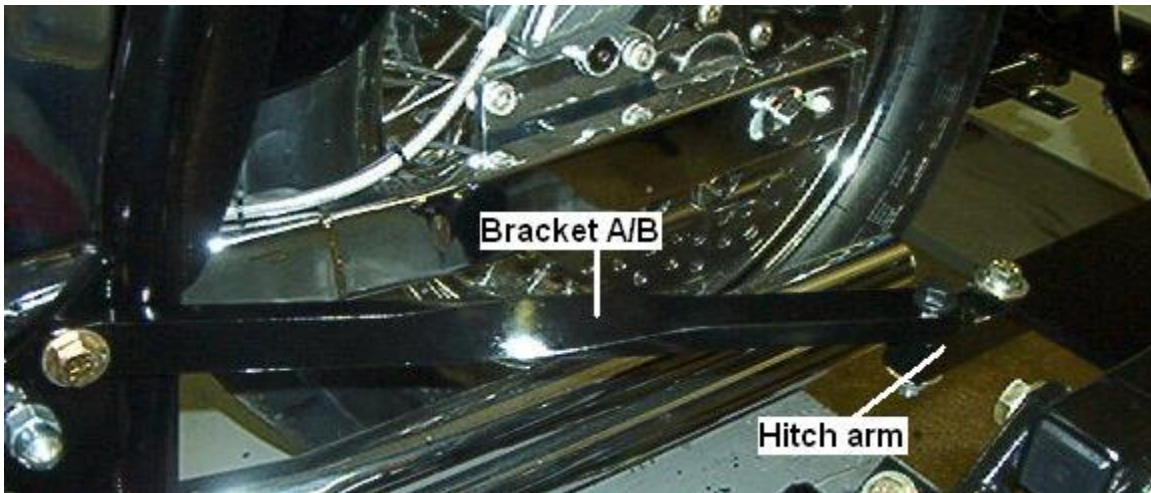


- 5) Ensure 2 large attachment bolts are tight.
- 6) Attach Bracket C (left) and Bracket D (right) to rear fender rail. Use new bolts provided on outer tapped holes (2) and one of the longer original bolts for center hole. Place one washer between brackets C & D and rear fender rail on each bolt. (3 each side) Place washer and thin nut on inside of rear fender on new bolts (2 each side) *These replace original fender washers. It may be necessary to reattach saddle bag attachment hardware when attaching brackets C and D. All saddle bag hardware should be attached to the OUTSIDE of brackets C and D.*

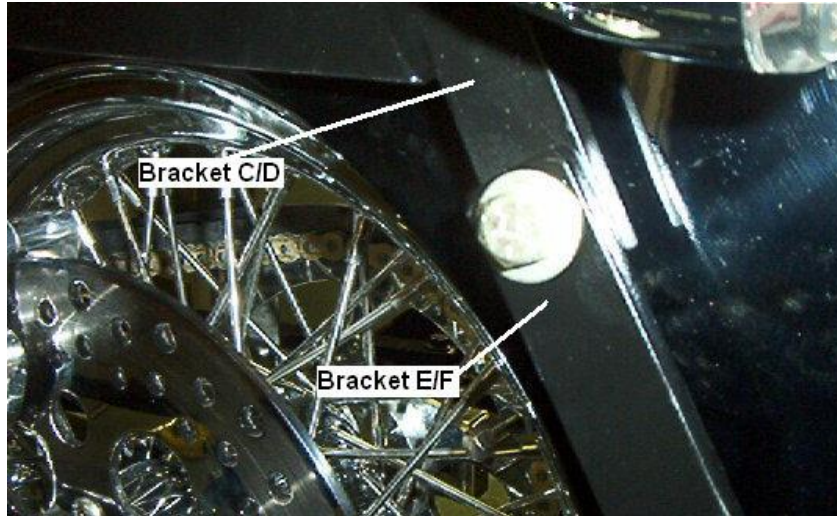
7) Attach front of Bracket A (left) and B (right) to existing hole in motorcycle frame just above swing arm pivot.



8) Attach rear of bracket A (left) B (right) to TOP of forward hitch arms. Snug bracket A and B attachment bolts at this time.



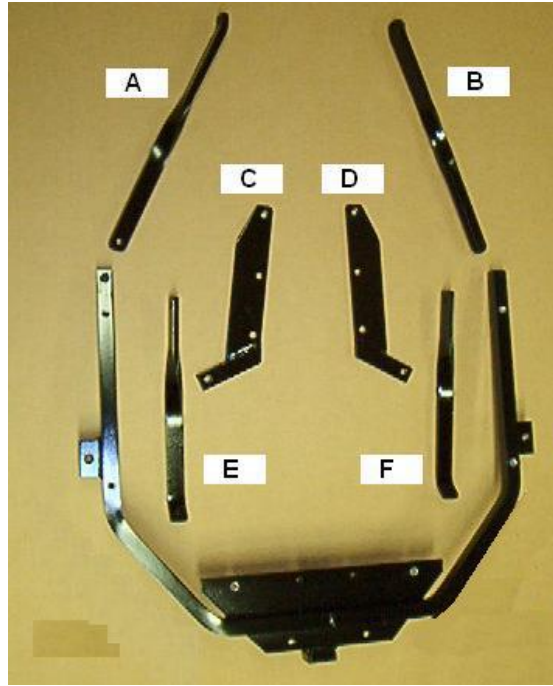
10) Attach top of Bracket E (left) and F (right) to outside of lower tabs on bracket C & D.



11) Attach bottom of brackets E and F to top of rear hitch plate.

12) Tighten bolts at this time. *Use caution not to over tighten and strip tapped holes in rear fender rail.*

## **Bracket Identification**



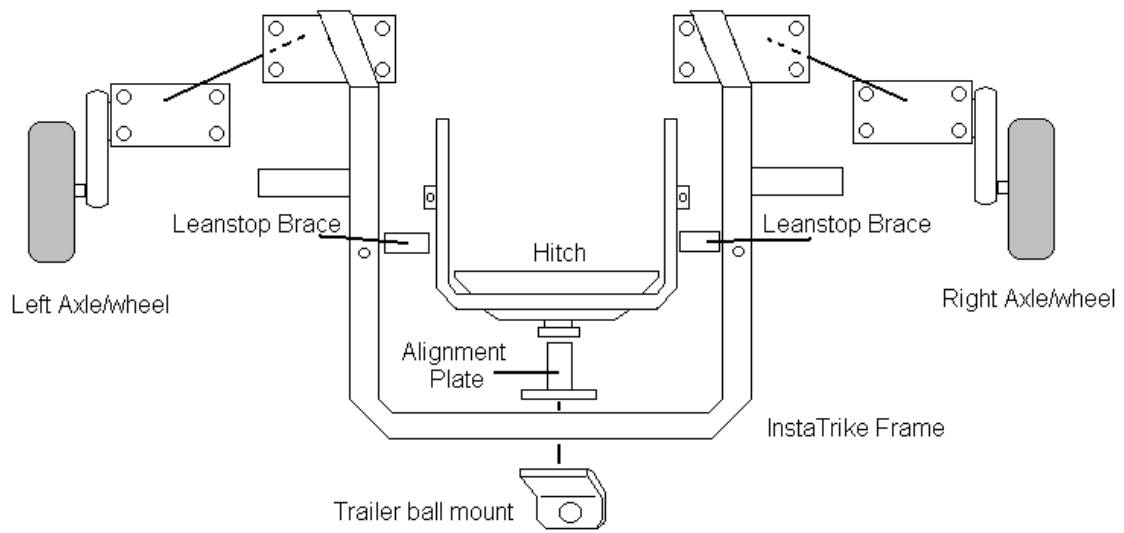
## Leveling stand screw jack installation

- 1) Thread right side screw jack into threaded leveling stand tab on bracket **B** and adjust leveling jack bolt out.
- 2) Push motorcycle over from left side until right screw jack is touching floor.
- 3) Install left side screw jack on bracket **A** and adjust out until motorcycle will rest upright on both screw jacks.
- 4) Adjust screw jacks until motorcycle is level.

**CAUTION - Use screw jacks to hold motorcycle upright and level ONLY. Do not lift motorcycle with screw jacks.**

**CAUTION - Use care when installing screw jacks. Be certain that motorcycle is always in a stable balanced position.**

# InstaTrike Assembly Diagram



**Top View**

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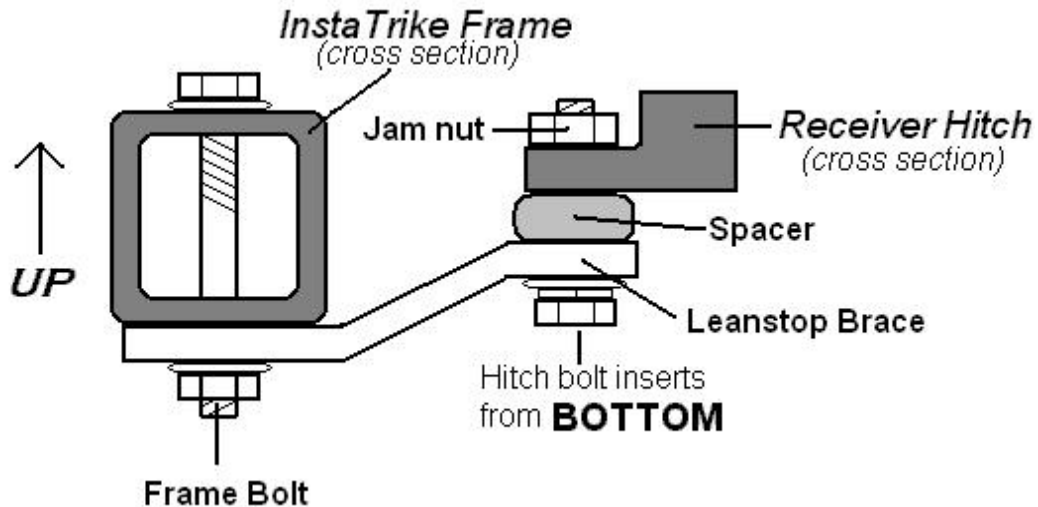
## INSTALLATION OF THE TOW-PAC HITCH CART.

1. Place your motorcycle on a smooth level surface and attach leveling jack stands.
2. Assemble axles, wheels, and fenders onto the tow-pac hitch cart.
- 3.
4. Push the hitch mount into the receiver hitch. (this might be a little difficult until you get use to doing it. Removing the paint from the hitch mount and applying a little grease will help.)
5. Place the hitch pin through the receiver hitch and hitch mount (*alignment plate*). Install and tighten the tension bolt.
6. Align InstaTrike wheels. (*initial installation only. Check periodically and realign if necessary*)

7. Bolt leanstop braces to hitch. (Bolt inserts from the bottom) Be certain to replace washers/spacers in the same configuration as when you removed them.
8. Remove leveling jack stands.
9. Check all bolts for tightness.
10. You are now ready for the test ride.
  - A. Keep your feet up!
  - B. Ride slowly in first gear until you are comfortable with the Tow-Pac system.

## **Leanstop Braces**

- When installing InstaTrike, bolt leanstop brace to receiver hitch by inserting bolt from *bottom* through the leanstop brace and washers/spacers. Thread bolt into bracket on hitch and tighten.
- When removing InstaTrike reverse the above procedure.
- Adding or removing washers/spacers between receiver hitch and leanstop brace will allow you to level your motorcycle if necessary.



*Leanstop brace is slotted to allow for proper alignment with bolt holes*

## **NOTICE:**

Be certain that hitch bolts are inserted from the **BOTTOM**

## **Wheel Height / Traction Adjuster**

The wheel height/traction adjuster (right and left side) allows you to selectively adjust the position of your trike wheels in order to customize ride, handling, level, and traction characteristics. Your trike is shipped with the adjuster preset to an optimum position for your model of motorcycle however you can make whatever adjustments necessary to customize to your bike and personal preference.

**Shortening** the adjuster arm **raises** the trike wheels and places more of the weight of your motorcycle on the motorcycle wheel. This increases motorcycle traction and gives a generally softer ride.

- 1) Loosen jam nuts
- 2) Shorten adjuster arm by turning adjuster nut **A** toward bolt **C** desired amount.

- 3) Turn adjuster nut **B** until it tightens against adjuster bracket and adjuster nut **A**
- 4) Tighten nuts **A** and **B** and jam nuts

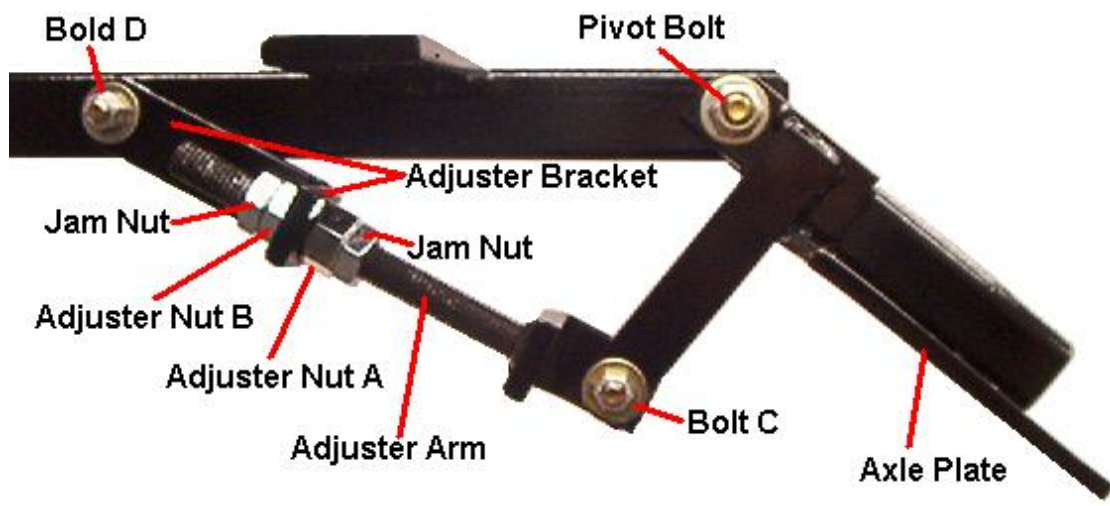
**Lengthening** the adjuster arm **lowers** the trike wheels and places more of the weight of your motorcycle on the trike wheels. This gives a firmer ride and increases handling/cornering.

- 1) Loosen jam nuts
- 2) Lengthen adjuster arm by turning adjuster nut **B** toward bolt **D** desired amount.
- 3) Turn adjuster nut **A** until it tightens against adjuster bracket and adjuster nut **B**
- 4) Tighten nuts **A** and **B** and jam nuts

If necessary the pivot bolt and bolts C and D and be loosened for adjustment  
**Be certain to retighten all bolts after adjustment.**

**NOTICE: Check all bolts and nuts periodically for tightness**

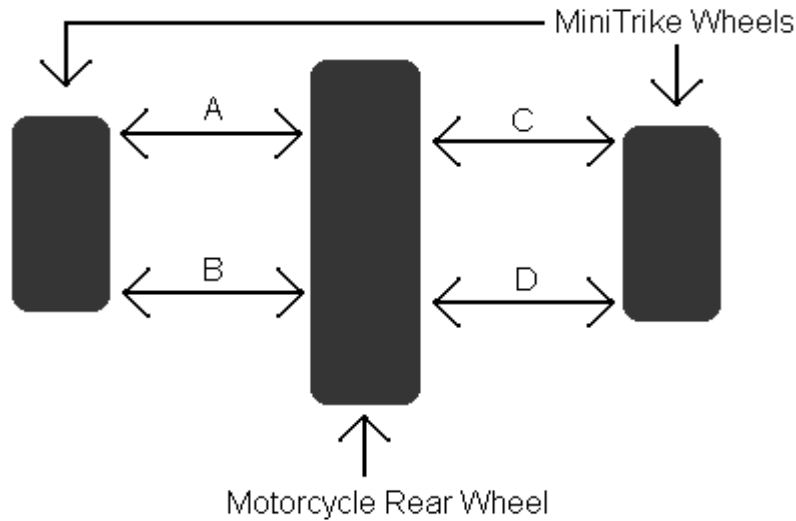
**NOTICE: Be sure motorcycle is level after adjustment.**



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## Wheel Alignment

*Wheel alignment is critical for proper tire wear and handling.*



### ***Top View***

With MiniTrike installed measure **A** and **B**. Loosen axle plates and align wheel so **A** and **B** are equal to within 1/16<sup>th</sup> of an inch. Tighten axle bolts and torque to 45 pounds. Repeat for **C** and **D**. It may be necessary to shim axle plates for proper alignment.

***NOTE:*** *The measurement of A and B may not be the same as C and D. This is normal and presents no difficulty.*

## **Parking Brake**

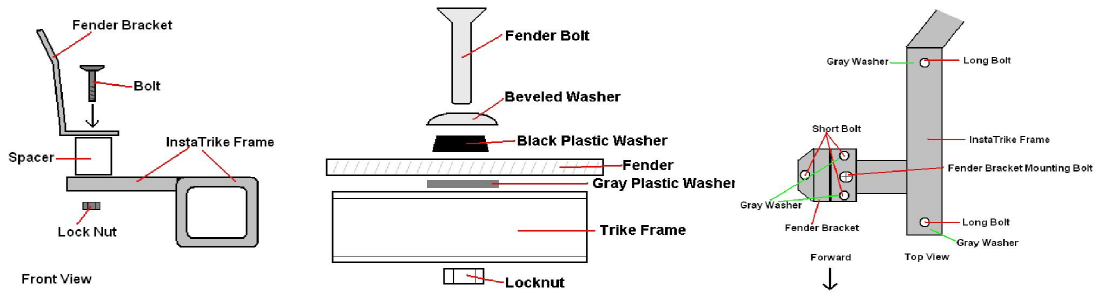
When parking your motorcycle with InstaTrike attached it is highly recommended that you use the enclosed elastic band to secure the front brake. Place band around front brake lever and handle grip.



## **Fender Installation Instructions** *(12 Inch wheel only)*

- 1) Attach fender brackets to trike frame with spacers ***BETWEEN*** fender bracket and frame. Tighten.  
***NOTE: Leave fender bolts loose until all bolts are inserted.***
- 2) Place gray plastic washers between fender and trike frame/fender bracket. (4 washers each side)
- 3) Place fender on frame. Carefully align mounting holes.
- 4) Insert long bolts first. (2 each side)
- 5) Insert short bolts second . (3 each side) ***Insert top bolt first.***

6) Carefully tighten bolts. Use care not to over tighten.



## Reflector Mounting Instructions

- 1) Be sure fender is clean and free from dust  
*Do not apply reflectors in direct sunlight or on a hot surface*
- 2) Remove backing from reflector and carefully position on fender.  
*See Diagram Below*

***Lightly spraying back of reflectors with a mild solution of water or Windex will allow easier positioning. Allow reflectors at least one hour to dry before riding if using this method.***

