

INSTATRIKE

BY



Installation Manual

Harley Sportster

Limited Warranty

TOW-PAC, INC. warrants to the first end user purchaser that this product “InstaTrike” 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.

Notice

After your InstaTrike 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 InstaTrike installed remember the outrigger wheels. Use caution not to run them into objects.
- Keep your feet up at all times.

Important Notices

- ***InstaTrike is designed for use on paved surfaces only. Use of InstaTrike on unpaved terrain may void warranty.***
- ***Installation of InstaTrike requires your motorcycle to be level. Level the motorcycle with leveling stands.***
- ***When installing trailer hitch attach all bolts and brackets loosely. After all bolts and brackets are in place tighten all bolts.***
- ***Use care when installing screw jacks. Be certain that motorcycle is always in a stable balanced position.***

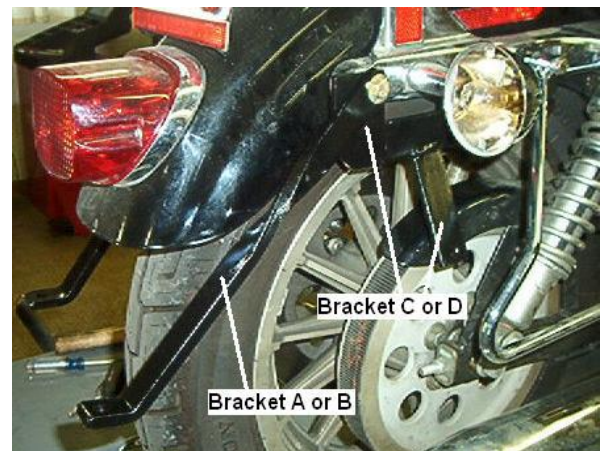
Installation Checklist

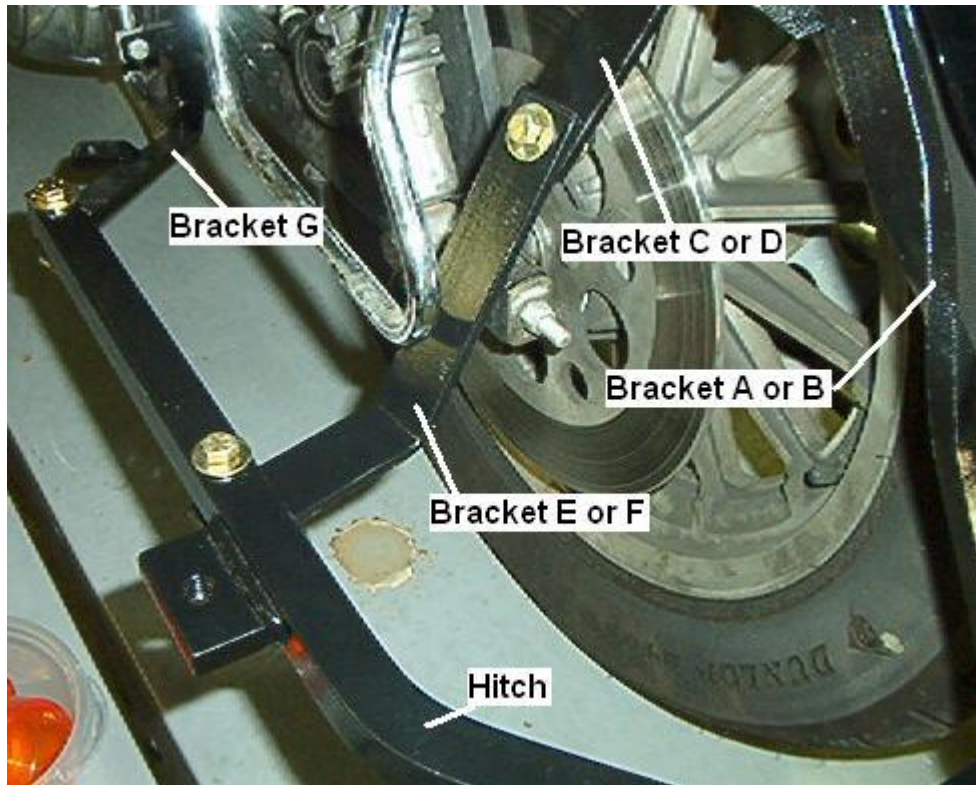
- Review entire installation manual**
- Install receiver hitch and double check all bolts**
- Assemble InstaTrike hitch cart**
- Attach InstaTrike to motorcycle via receiver hitch**
- Attach leanstop brace bolts to receiver hitch**
- Align InstaTrike wheels**
- Double check all bolts for tightness**
- Test ride InstaTrike slowly in an open area to familiarize yourself with handling characteristics**

RECEIVER HITCH INSTALLATION

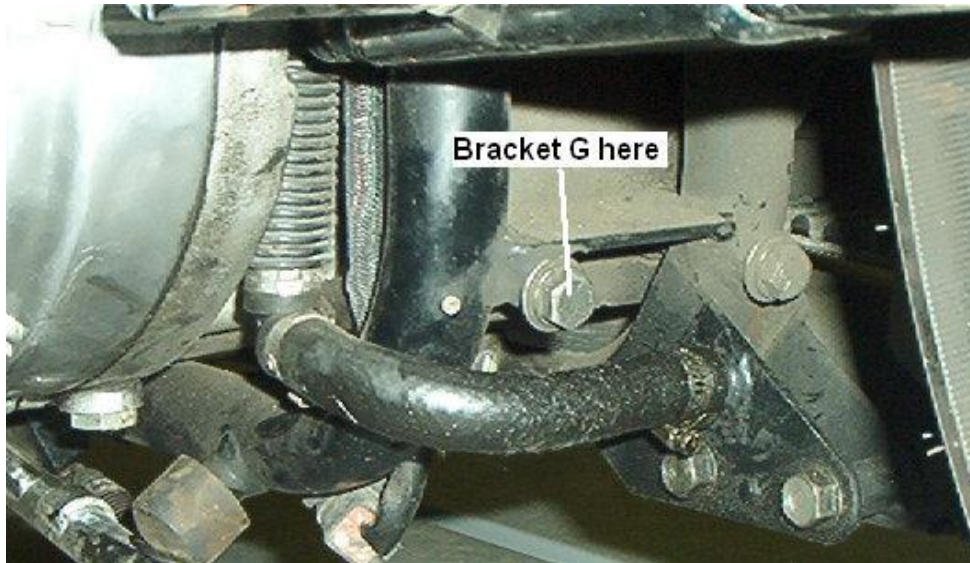
NOTICE - Attach all bolts loosely until all bolts and brackets are in place. After all are in proper position tighten all bolts.

- 1) Place motorcycle on its side stand on a smooth level surface.
- 2) Mount bracket **A** on the left rear of the receiver hitch
- 3) Mount bracket **B** on the right rear of the receiver hitch
- 4) Attach bracket **C** to the inside of bracket **A**. Bracket **C** mounts to the top two left rear motorcycle frame bolts where the fender is mounted to the motorcycle frame on the left side.
- 5) Attach bracket **D** to the inside of bracket **B**. Bracket **D** mounts to the top two rear motorcycle frame bolts where the fender is mounted to the motorcycle frame on the right side.
- 6) Attach bracket **E** to the outside of bracket **C** and the rear hole on the left hitch arm.
- 7) Attach bracket **F** to the outside of bracket **D** and the rear hole on the right hitch arm.

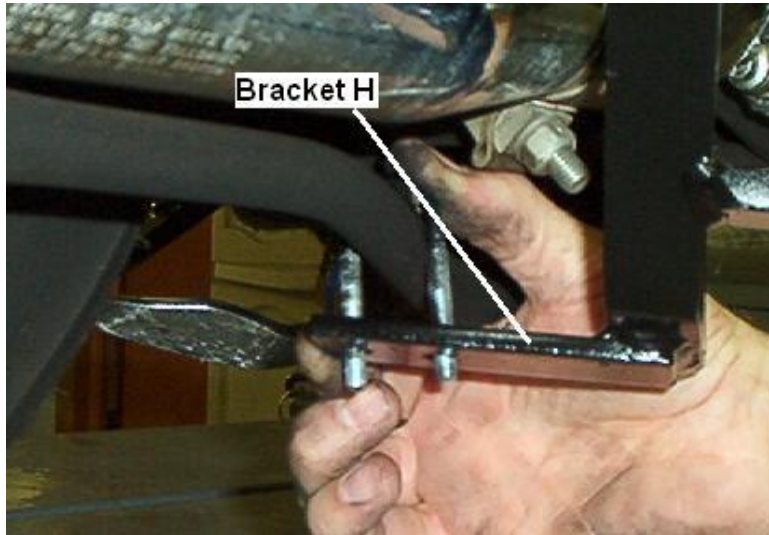




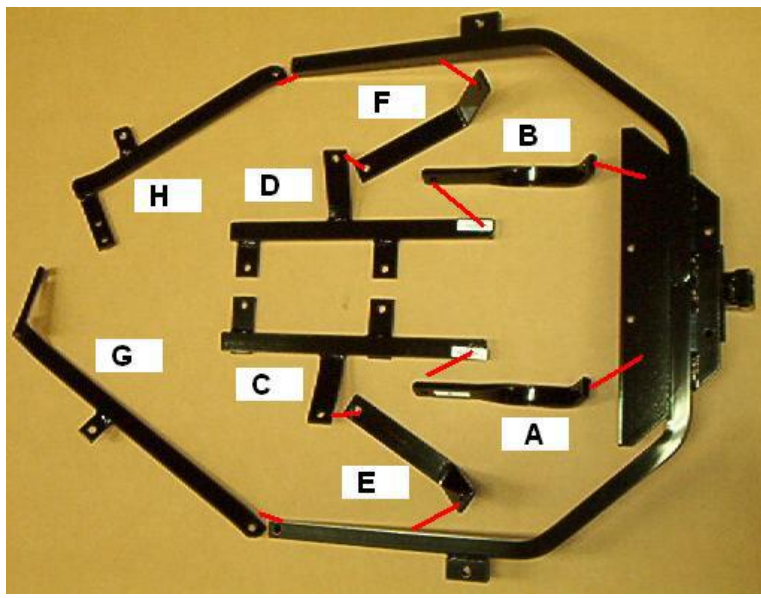
8) Attach bracket **G** to the forward hole in the left hitch arm on *BOTTOM* of the hitch arm. Bracket **G** mounts to the bottom rear motor mount bolt.



9) Attach bracket **H** to the forward hole in the right hitch arm on *BOTTOM* of the hitch arm. Bracket **H** mounts to the muffler bracket support bar on the motorcycle with the enclosed U-bolt.



Receiver Hitch Diagram



INSTATRIKE INSTALLATION

1) Place (2) jack stands onto the threaded tab on brackets **G** and **H**. *DO NOT USE JACK STANDS TO RAISE MOTORCYCLE BUT ONLY TO HOLD IT IN AN UPRIGHT AND LEVEL POSITION.*

2) Carefully slide InstaTrike into receiver hitch. *NOTE - If InstaTrike will not slide easily into place loosen 3 alignment plate bolts. After InstaTrike is in position on the receiver hitch shim alignment plate and retighten bolts.*

3) Insert hitch pin.

4) 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.

See diagram next page

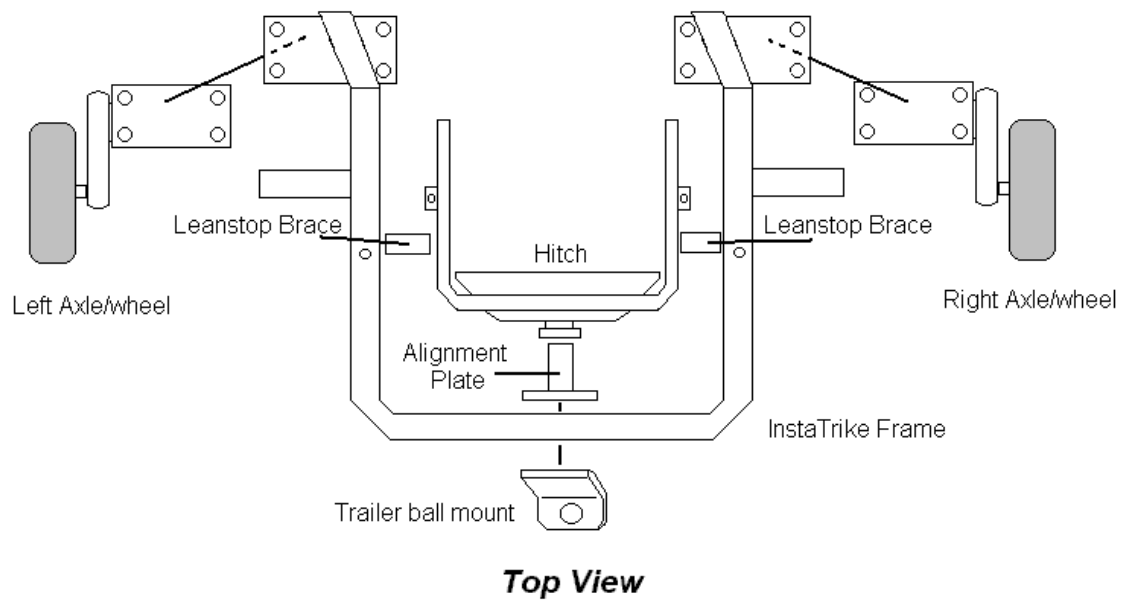
5) Insert ½ inch tension bolt through square washer and tighten.

6) Align InstaTrike wheels. Alignment is required on first InstaTrike installation and should be checked periodically.

7) Remove jack stands

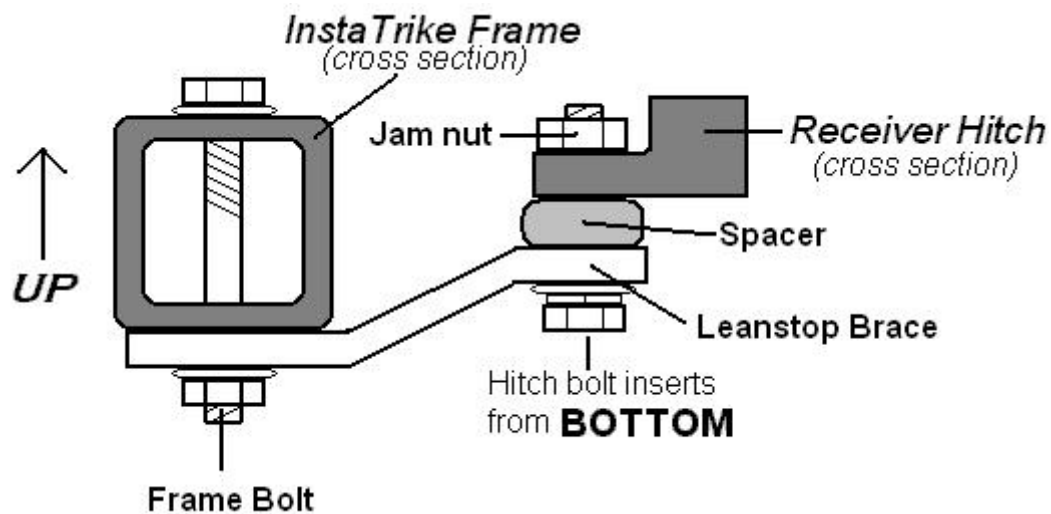
8) Recheck all bolts for tightness

InstaTrike Assembly Diagram



Leanstop Braces

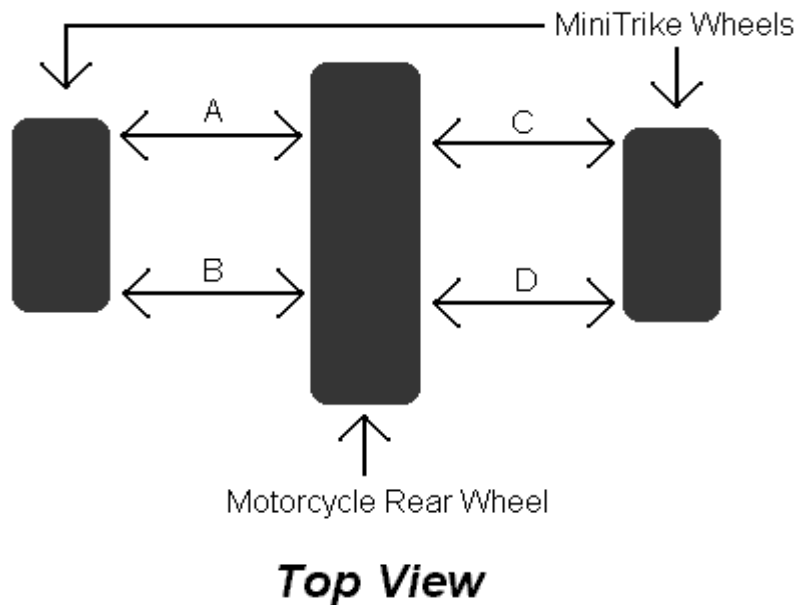
- When installing InstaTrike, bolt leanstop brace to receiver hitch by inserting bolt from *bottom* through the leanstop brace and washers/spacers. Thread bolt into bracket on hitch and tighten.
- When removing InstaTrike reverse the above procedure.
- Adding or removing washers/spacers between receiver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



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

Wheel Alignment

Wheel alignment is critical for proper tire wear and handling.



With InstaTrike installed and motorcycle on center stand, measure **A** and **B**. Loosen axle plates and align wheel so **A** and **B** are equal to within 1/16th of an inch. Tighten axle bolts and torque to 45 pounds. Repeat for **C** and **D**.

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

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.

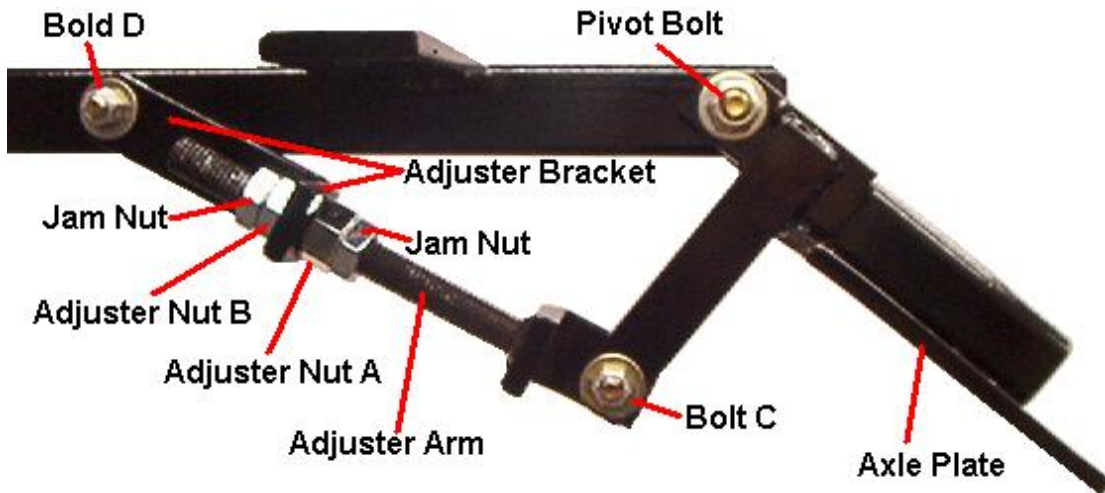
- 1) Loosen jam nuts
- 2) Lengthen adjuster arm by turning adjuster nut **B** toward bolt **D** desired amount.
- 3) Turn adjuster nut **A** until it tightens against adjuster bracket and adjuster nut **B**
- 4) Tighten nuts **A** and **B** and jam nuts

If necessary the pivot bolt and bolts C and D and be loosened for adjustment

Be certain to retighten all bolts after adjustment.

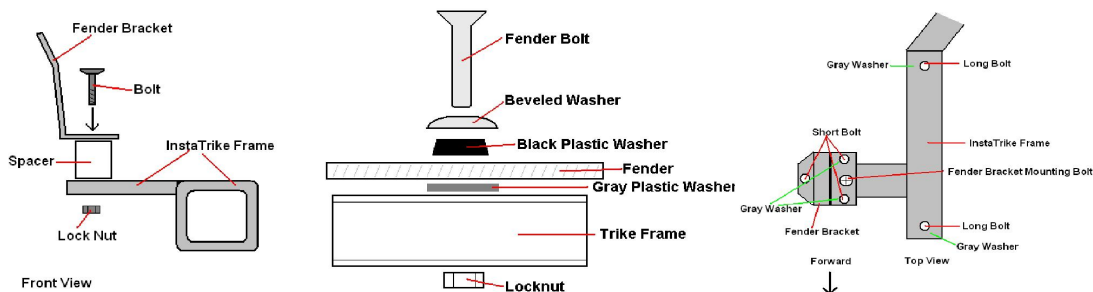
NOTICE: Check all bolts and nuts periodically for tightness

NOTICE: Be sure motorcycle is level after adjustment.



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.

