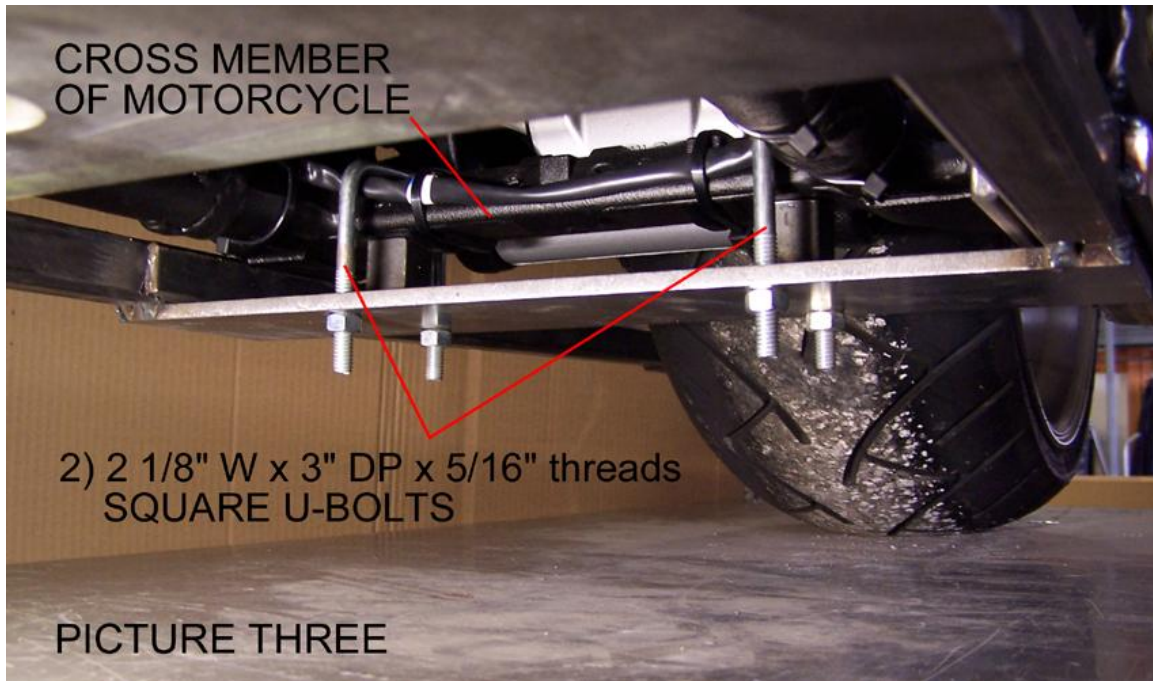# YAMAHA RAIDER 1950 (2008-)
BELLY BRACKET – ASSEMBLY ARMS INSTALLED
(PICTURE THREE)

CROSS MEMBER
OF MOTORCYCLE

2) 2 1/8" W x 3" DP x 5/16" threads
SQUARE U-BOLTS

PICTURE THREE

YAMAHA RAIDER 1950 (2008-)
BELLY BRACKET – ASSEMBLY ARMS INSTALLED
(PICTURES ONE & TWO)

THIRD U-BOLT INSTALLED

SECOND U-BOLT INSTALLED

FIRST U-BOLT INSTALLED

BELLY BRACKET - ASSEMBLY ARMS

PICTURE ONE   RIGHT SIDE

FIRST U-BOLT INSTALLED

SECOND U-BOLT INSTALLED

THIRD U-BOLT INSTALLED

BELLY BRACKET - ASSEMBLY ARMS

PICTURE TWO   LEFT SIDE
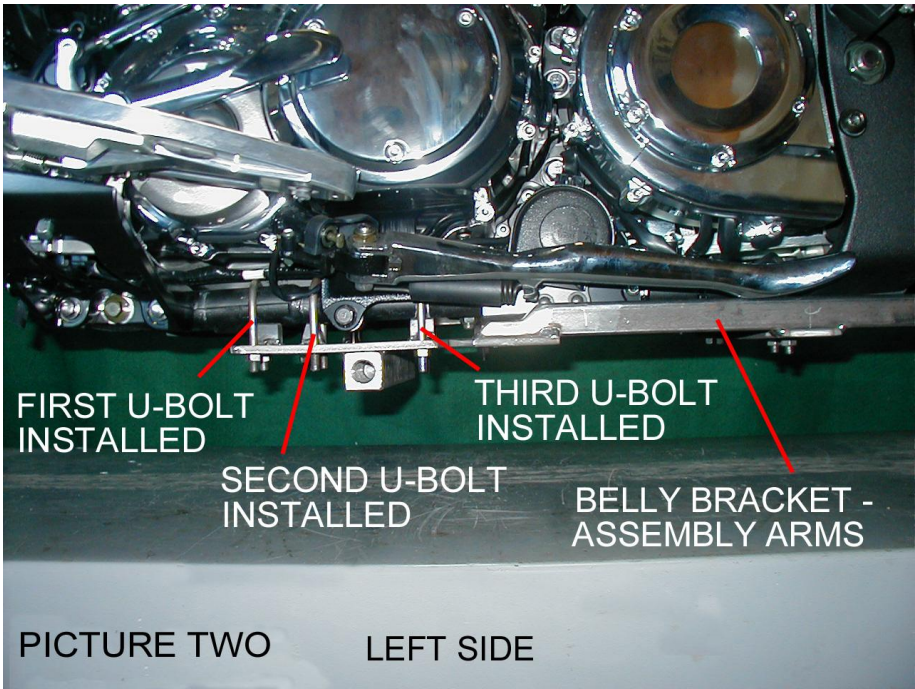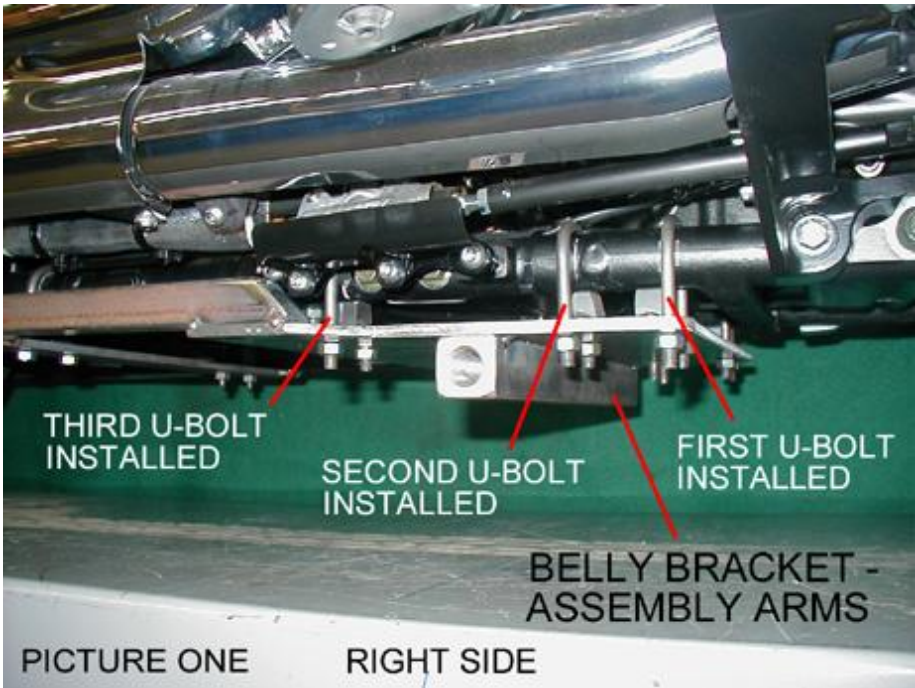
YAMAHA RAIDER 1950 (2008-)
DESCRIPTION OF PARTS

6) 5/16"-18 x 1 5/8" x 3" U-BOLTS
12) 5/16" FLAT WASHERS
12) 5/16"-18 NYLOCK NUTS

2) 3/4"-10 x 3 3/4" BOLTS
2) 3/4" LOCK WASHERS
2) 1 5/16" SPACERS

2) 2 1/8" W x 3" DP x 5/16" thrds
    SQUARE U-BOLTS
4) 5/16" FLAT WASHERS
4) 5/16"-18 NYLOCK NUTS

BELLY BRACKET -
ASSEMBLY ARMS

2) HEX BOLTS 1/2"-13 x 2 1/2"
2) K.PRENE BEARINGS
2) 1/2" LOCK WASHERS
2) 1/2"-13 STOVER LOCK NUTS
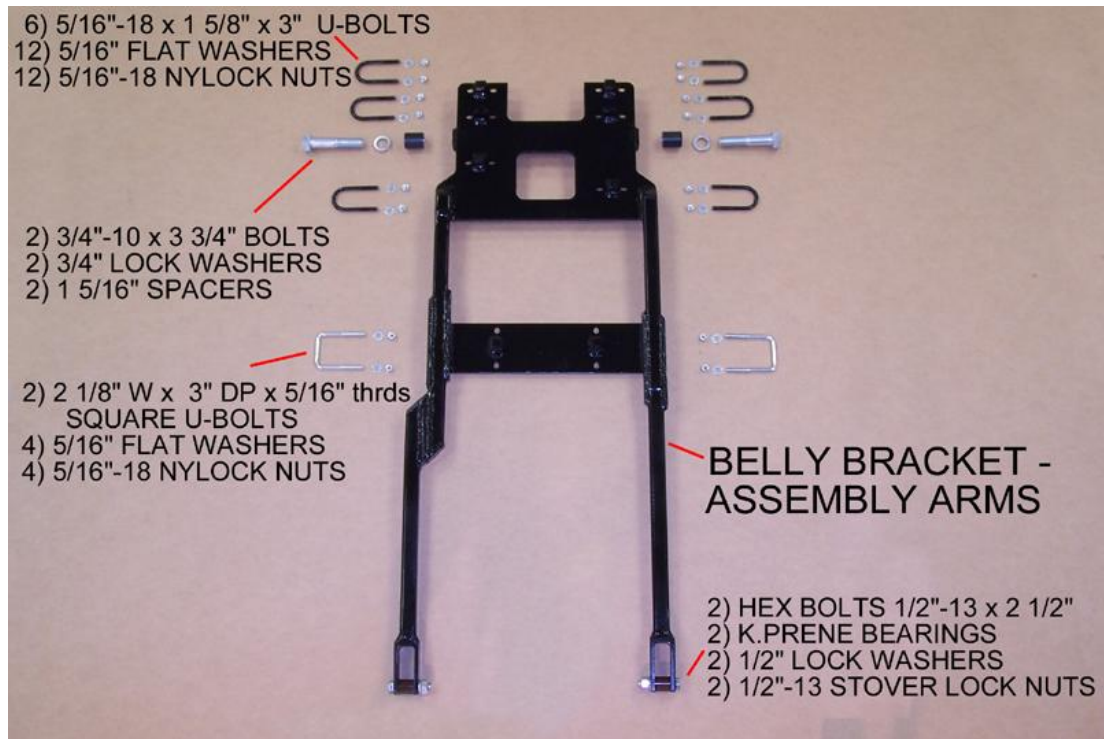
Three 2" shims– not shown in picture above.
You may or may not have to use the shims. See note below.

After installing the mounting hardware and attaching the Voyager frame to the belly bracket you may need shims to make the motorcycle stand straight up and down.
The shims may be used on either the left or the right side depending on which way the motorcycle is leaning. If the motorcycle is leaning to the left put the shims on the left side. If the motorcycle is leaning to the right put the shims on the right side. The shims will go on the front and back of one side of the belly bracket.

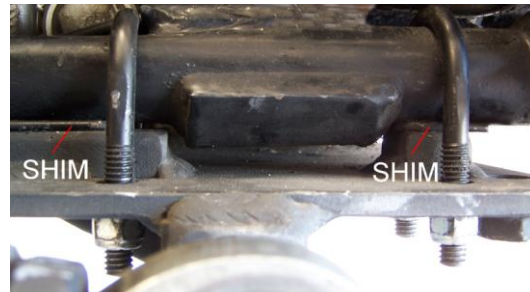**Place shims in-between front and rear belly bracket assembly arms tabs and motorcycle frame.**

SHIM   SHIM

ILLUSTRATION OF SHIM PLACEMENT
BRACKET PICTURED MAY NOT MATCH YOUR BRACKET

SECTION 1
INSTALLATION OF
YAMAHA RAIDER 1950 (2008-)
MOUNTING HARDWARE

Place motorcycle on clean flat surface. Make sure your motorcycle is tied down on both sides. This prevents bike from tipping over. Installation is easier if motorcycle is in an upright position.
Disconnect negative cable from battery before beginning installation.

NOTE: **The Voyager Convertible Kit was designed for a stock motorcycle from the manufacturer. Any after market products that are on a stock motorcycle may cause the installation process to not be done properly and may or may not need to be removed to be able to install the Voyager Convertible Kit completely. Be aware that your motorcycle and the same make & model as someone else's motorcycle may not have mufflers, body panels, frames, fenders and any other manufacturer parts that are attached to the motorcycle in the exact same place as yours. We at Motorcycle Tour Conversion, Inc. take that into consideration when we manufacture our parts to fit your motorcycle. Once in awhile you may need to modify your motorcycle slightly so that the Motorcycle Tour Conversion, Inc. hardware or suspension fits your motorcycle. Please call Motorcycle Tour Conversion, Inc. if you have any questions about installation with after market products or any modification of motorcycle and/or Motorcycle Tour Conversion, Inc. hardware.**

      A)   **BELLY BRACKET - ASSEMBLY ARMS**

           RIGHT SIDE

           1)   Install 3) 5/16"-18 x 1 5/16" x 3 u-bolts over motorcycle frame. Install the <u>first</u> u-bolt over motorcycle frame just behind the front motorcycle frame cross member. (Shown in picture one)

           2)   Install the second u-bolt about 2 1/4" behind the first u-bolt. (Shown in picture one)

           3)   Install the third u-bolt in front of motorcycle center frame cross member. (Shown in picture one)

           4)   Install 1) 2 1/8"W x 3" DP. x 5/16" threads square u-bolt over rear cross member of motorcycle. (Shown in picture three)

SECTION 1
INSTALLATION OF
YAMAHA RAIDER 1950 (2008-)
MOUNTING HARDWARE

LEFT SIDE

1)   Install 3) 5/16"-18 x 1 5/16" x 3 u-bolts over motorcycle frame. Install the <u>first</u> u-bolt over motorcycle frame just behind the front motorcycle frame cross member. (Shown in picture two)

2)   Install the second u-bolt about 2 1/4" behind the first u-bolt. (Shown in picture two)

4)   Install the third u-bolt in front of motorcycle center frame cross member. (Shown in picture two)

4)   Install 1) 2 1/8"W x 3" DP. x 5/16" threads square u-bolt over rear cross member of motorcycle. (Shown in picture three)

5)   Install belly bracket – assembly arms to left and right side u-bolts with 16) 5/16" flat washers and 16) 5/16"-18 nylock nuts.

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YAMAHA RAIDER 1950 (2008-)

INSTALLATION MANUAL
US PATENT # 6,739,420

WARRANTY WILL BE VOID IF INSTALLATION IS NOT DONE PROPERLY

READ THIS MANUAL FULLY BEFORE BEGINNING INSTALLATION OR DRIVING YOUR MOTORCYCLE WITH THE VOYAGER KIT ATTACHED