



**HAPPY-TRAIL.COM**

*Dual Sport & Adventure Touring Specialists*

Thank you for purchasing Happy Trails products. Our products are proudly hand made in Boise Idaho, USA. If you have any questions or concerns about the installation of this product, please contact us directly at 1-800-444-8770 or e-mail [installation@happy-trail.com](mailto:installation@happy-trail.com).

Before you begin, place the bike on a hard level surface where you have room to work. Lay out the parts included in this kit and compare to the parts list on the final pages of these instructions. If any parts or hardware are missing, contact us immediately at the number or email listed above.

### Step 1

Remove the two main engine bolts indicated by the arrows on the left side of the bike.

Note, to be safe, **DO NOT REMOVE THE RIGHT HAND BOLT YET**. These are the main bolts holding the engine in the frame so you want to make sure at least one major bolt is in place and tight at all times.

These bolts will not be reused, but the large bolt Nut will. Also, **verify the thread pitch** of the large bolts in kit match thread pitch of these bolts (1.25 TP)

### Step 2

Install the left hand Nerf by placing a M10 flat washer in location #1, then the 1.5" L spacer. Position the Nerf bar and secure with the M10x120 bolt and another M10 flat washer + lock washer at the head of the bolt.

At position #2, place the 1/2" long spacer into the frame hole behind the Nerf tab. Place two M12 flat washers on the very large M12x360 bolt and insert through the nerf tab, spacer, and through the engine out the other side of the frame.

### Step 3

Install the right hand Nerf in a similar way as the left. Make sure the front bolt on the LEFT hand Nerf is tight before removing the RIGHT side bolt.

Use another flat washer, 1.5" spacer, and the M10x100 bolt with M10 flat and lock washers at the front mount location.

Use the 1" spacer between frame and nerf tab, place two more M12 flat washers and OEM nut removed in step 1 to secure the rear mount point.

Fig1



Fig 2

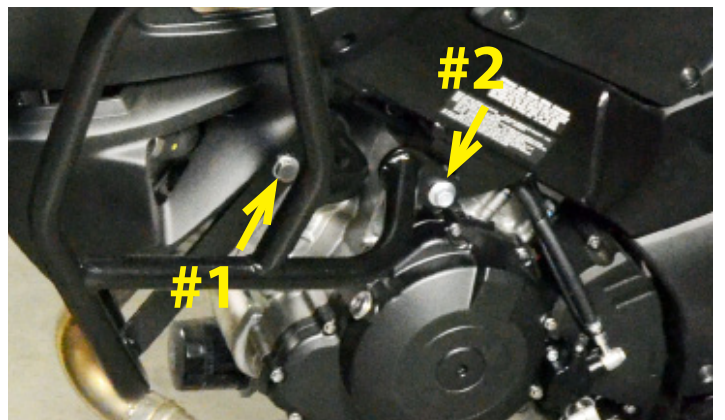
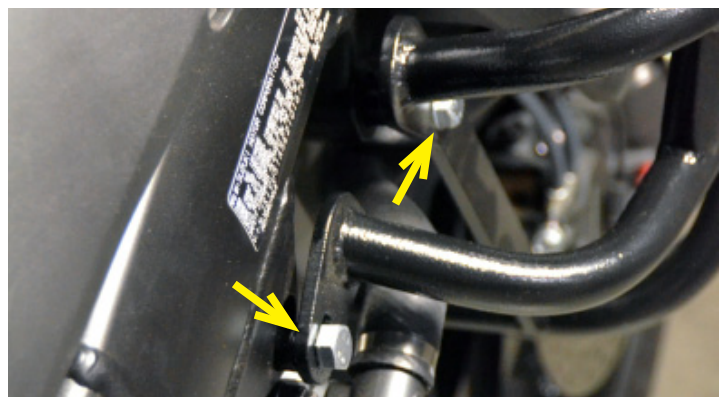


Fig 3

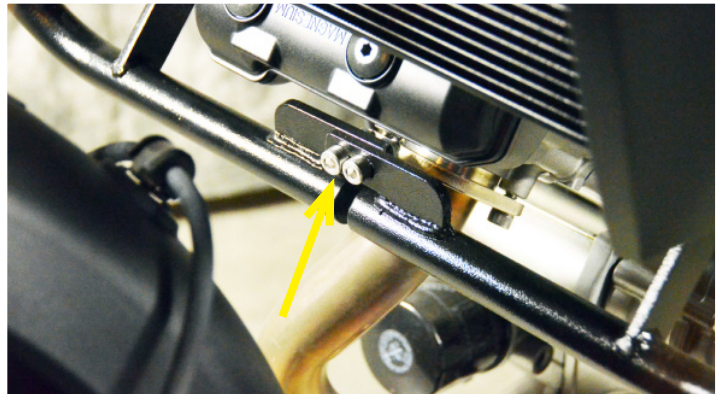


#### Step 4

Connect the crossbars by installing two M8x25 SHCS bolts and secure with two M8 nylock nuts on the back side. See Fig 8 arrow for bolt location.

Note you may have to loosen the two M10 bolts on the sides to position the crossover tabs together and at the desired distance from the engine -- typically as far away as the nerf tab slots will allow.

Fig 4



#### Step 5

Tighten all bolts to the following torque specifications:

M12 bolt should be tightened to 54 ft/lbs

M10 bolts should be tightened to 40 ft/lbs

M8 bolts should be tightened to 16 ft/lbs

Fig 5



#### Recommended Tools:

6mm Allen (hex) Wrench

17mm socket

14mm socket

17mm box end wrench

13mm box end wrench

Torque Wrench



#### Hardware List:

(1) Left side Nerf

(1) Right side Nerf

(1) Bolt Kit

(1) Installation Instructions



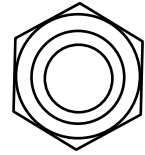
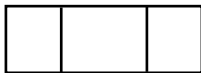
12/11/14

Rev. 1

JE

HTP7-14-5

2014+ DL1000 Nerf Engine Guard



X2

X2

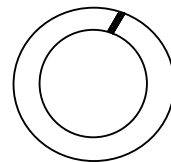
M825S

M8N

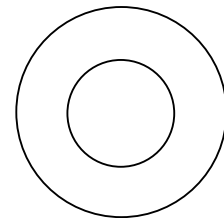
X1

X1

X1



X2



X4

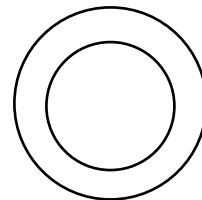
10mm Lock Washer

10mm FW

OPTIONAL BOLT. NOT PART OF STANDARD KIT.  
CUSTOMER MUST ORDER SEPARATELY BASED ON NEED

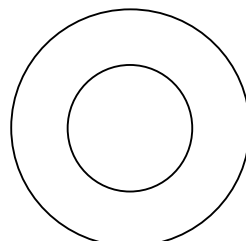
M10120C  
1.25 TP  
10.9

M10100C  
1.25 TP  
10.9



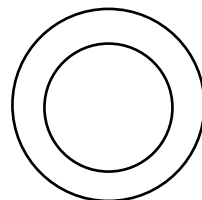
X2

OD3/4, ID .500, L 1 1/2 Spacer  
(POWDER COATED)



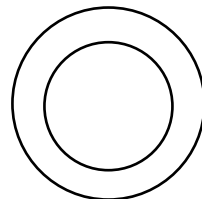
X4

12mm FW



X1

OD3/4, ID .500, L 1" Spacer  
(POWDER COATED)



X1

OD3/4, ID .500, L 1/2" Spacer  
(POWDER COATED)



Note: Large M12 bolt re-uses OEM Nut

M12360C