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*Dual Sport & Adventure Touring Specialists*

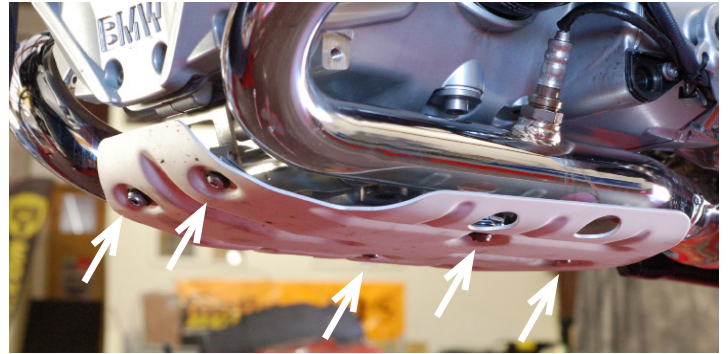
Thank you for purchasing Happy Trails products. Our products are proudly hand made in Boise Idaho, USA. If you have any questions or concerns about the installation of this product, please contact us directly at 1-800-444-8770 or e-mail [installation@happy-trail.com](mailto:installation@happy-trail.com).

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 of these instructions. If any parts or hardware are missing, contact us immediately at the number or email listed above.

**Step 1**

Remove OEM skid plate. Retain the OEM mounting bolts for use later. See Fig 1.

Fig1



**Step 2**

Remove OEM front skid plate mount. Retain bolts for use in next step. See Fig 2.

Fig 2



**Step 3**

Install Happy Trails front skid plate mount MT-1 using 2 M620B OEM bolts from step 2 above. Apply Loctite (included) to the bolts and tighten to 6 ft/lbs. See Fig 3.

Fig 3



Step 4

Install center mount plate MT-2 using 3 of the M620B OEM bolts from step 1 above. Apply Loctite to the bolts and tighten to 6 ft/lbs. See Fig 4.

The mount plate MT-2 contains two rubber insulators which softens the force of an impact on the cases.

Step 5

Place the thick rubber insulator MT-3 on the skid plate as shown and align mounting holes with holes in skid plate. See Fig 5.

The rubber insulator MT-3 acts to absorb the force of impacts.

Step 6

Remove lower front M1045B frame to engine mounting bolt. See Fig 6.

Repeat on other side.

Step 7

Hold Skid Plate in place and insert OEM M1045B bolt through rear Skid Plate mounting hole and through the frame into the engine case. Leave loose until final tightening See Fig 7.

Repeat on other side.

Fig 4

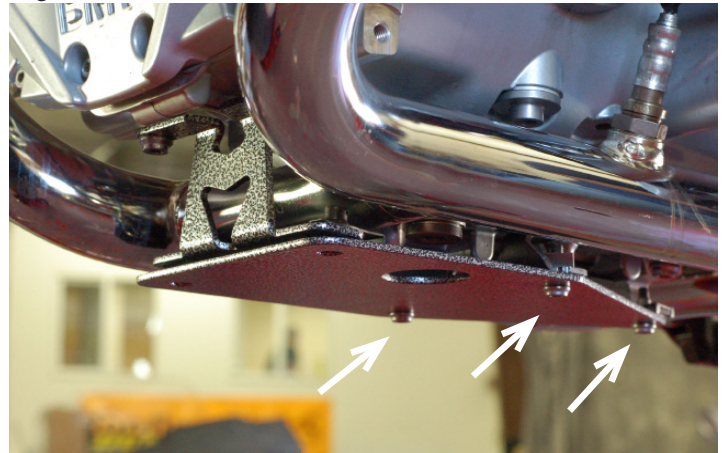


Fig 5

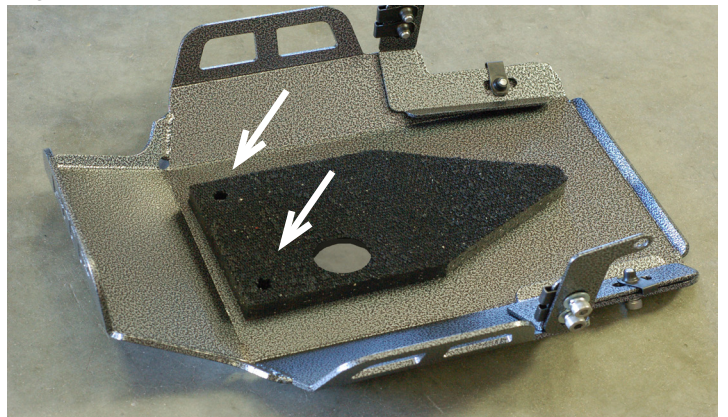


Fig 6

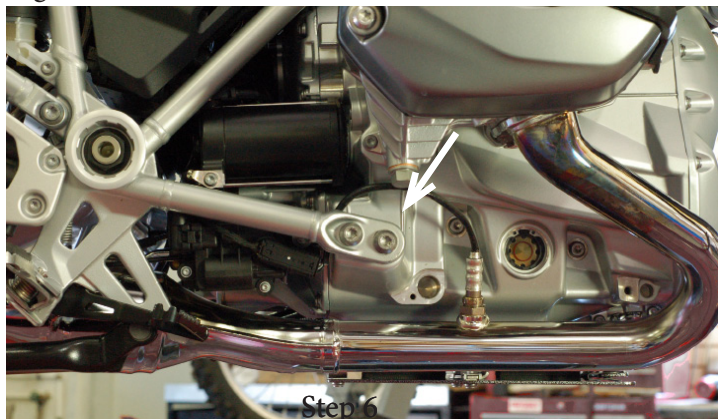
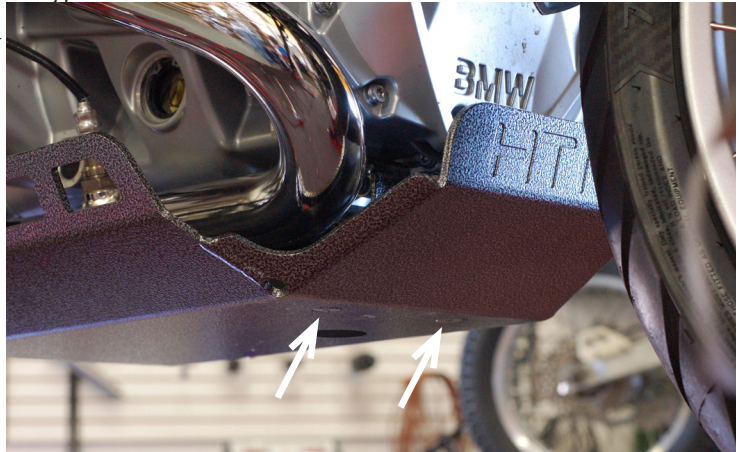


Fig 7



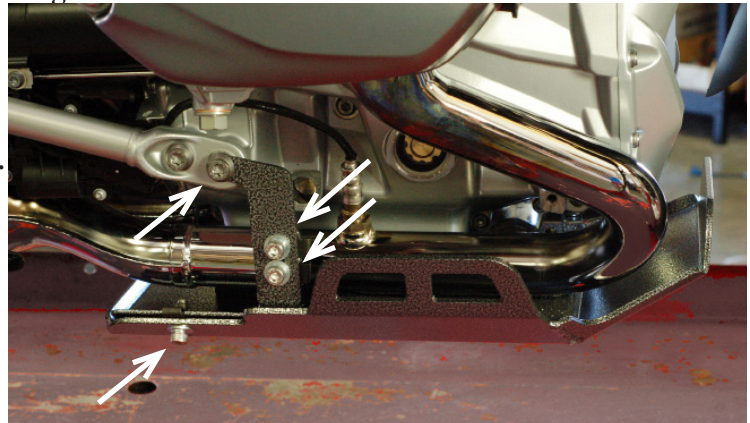
Step 8  
 Apply Loctite (included) to 2 M840T bolts and insert through the Skid Plate and the rubber insulator, and into the front mounting bracket speed nuts. Leave bolts loose until step 10. See Fig 8.

Fig 8



Step 9  
 Hold the Skid Plate and rubber MT-3 up against the mount plate MT-2 and tighten the M1045B bolt to 30 ft/lbs.  
 Tighten the M820S mounting bolts to 18 ft/lbs. See Fig 9.

Fig 9



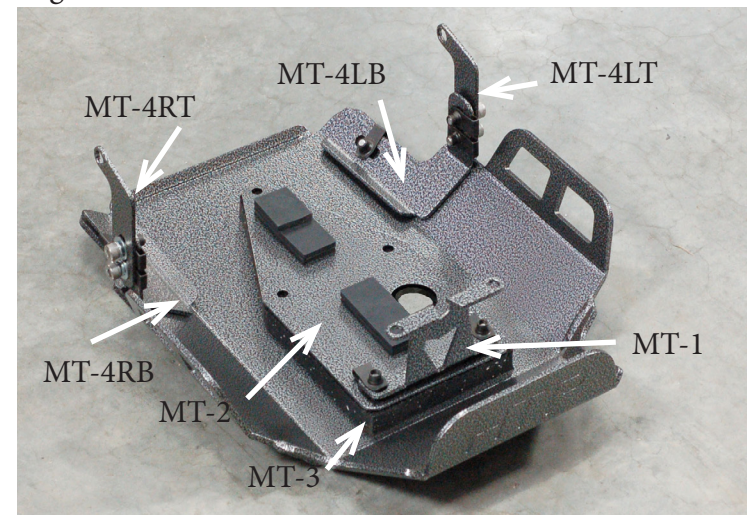
Repeat for other side.

Step 10  
 Tighten the 2 underside M840T mounting bolts until 2 threads are visible through the speed nut. See Fig 10.

Fig 10



Fig 11

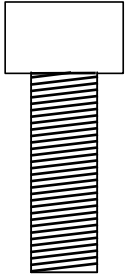


Step 11  
**Recommended Tools:**  
 6mm allen wrench / 13mm wrench / 3/8 drive ratchet / T-50 Torx 3/8 drive socket / Torque wrench

**Hardware List:**  
 Happy Trails Skid Plate

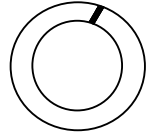
- MT-1
- MT-2
- MT-3
- MT4RT      MT-4RB
- MT-4LT      MT-4LB

# BMW R1200GSW Skid Plate



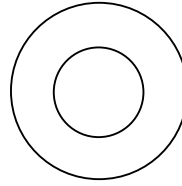
X6

M820S



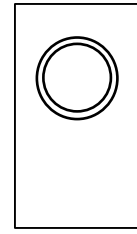
X6

8mm Lock Washer



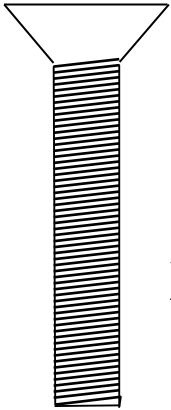
X6

8mm FW



X8

8mm Speed Nut



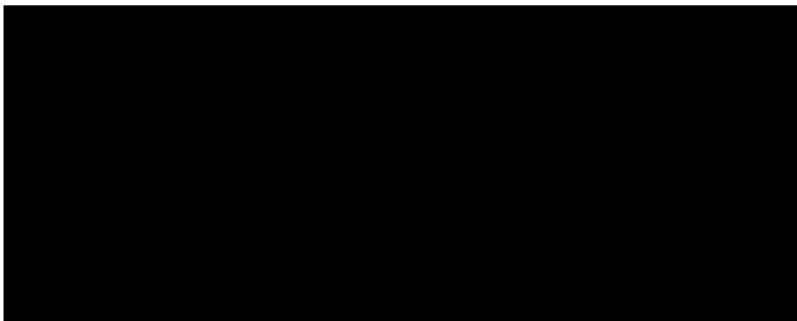
X2

M840T



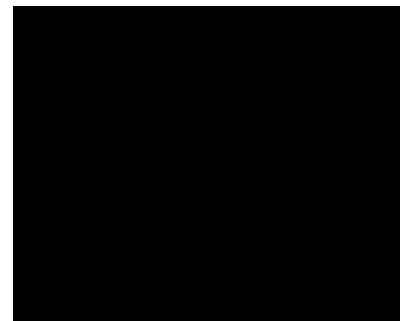
X1

Loctite 243



X4

Rubber Cushion 3"x1.25"x.17"



X1

Rubber Cushion 1.5"x1.25"x.17"