

# Table of Contents

<b>REF: Body Parts</b> .....	1
<b>Tool Bags</b> .....	1
<b>Downtube Bag</b> .....	1
<i>Swingarm Toolbag Mount</i> .....	2



[Go To Technical Menu](#)

## REF: Body Parts

### Tool Bags

### Downtube Bag

#### An HD bag:

The bracket with two nuts already welded to the down tubes was used to fasten the bag. <sup>1)</sup>

HD downtube bag. <sup>2)</sup>



#### 9000 series Otter Box:

It's waterproof and small enough to mount on the downtubes.

- Waterproof - Crushproof - Airtight
- Watertight to depths well beyond 100 feet
- Floats and stays watertight in water
- Closed cell neoprene O-ring to keep water out
- Made of Fiber-glass Reinforced ABS
- Silicone gasket for long lasting watertight seal
- Easy open latch
- Convenient Beltclip
- Compact size
- Unconditional Lifetime Warranty (although now discontinued from the manufacturer) <sup>3)</sup>

9000 series Otter Box fastened to the downtubes. <sup>4)</sup>



## Swingarm Toolbag Mount

The bag sets higher than the exhaust. You'd have to be leaning heavily before that bag will touch the ground.



5)



6)

Making a bracket mount for a leather tool bag. Bracket was made from 1/8" thick aluminum and some misc chrome hardware. An angle was cut on the front end. <sup>7)</sup>



Bracket shaped with a hand file, and holes drilled for mounting to the swingarm. <sup>8)</sup>



Holes also drilled to mount the bracket to the bag. <sup>9)</sup>



Edges rounded with a file, bracket wet sanded with 320/400/1500 grit paper respectively and then hand polished. <sup>10)</sup>



Final fitting to mark a hole on the rear side at the swingarm. <sup>11)</sup>



The hole was then drilled and tapped. <sup>12)</sup>



The bag mounting holes in the bracket were partially counter bored to allow clearance between the hardware and swingarm. <sup>13)</sup>



Assembling bracket to bag. <sup>14)</sup>



Inside the bag, large flat washers, lock washers and nylocks. <sup>15)</sup>



Bag mounted with chrome buttonheads, spacers and Loc-tite. <sup>16)</sup>



If after the bag gets broken in and it sort of flops over, you can add some metal flat stock inside the bag to keep it rigid. <sup>17)</sup>





**Go To Technical Menu**

- 1) maurino17 of the XLFORUM <http://xlforum.net/forums/showthread.php?t=1666606>
- 2) photos by maurino17 of the XLFORUM <http://xlforum.net/forums/showthread.php?t=1666606>
- 3) <https://www.opticsplanet.com/otterbox-9000-waterproof-case.html>
- 4) photos by vettelover84 of the XLFORUM <http://xlforum.net/forums/showthread.php?p=2119241#post2119241>
- 5) 6) 8) 9) 10) 11) 12) 13) 14) 15) 16)
- 7) photo by Johnny Wolf of the XLFORUM <http://xlforum.net/forums/showthread.php?t=483698>
- 17) photos by Johnny Wolf of the XLFORUM <http://xlforum.net/forums/showthread.php?t=483698>
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