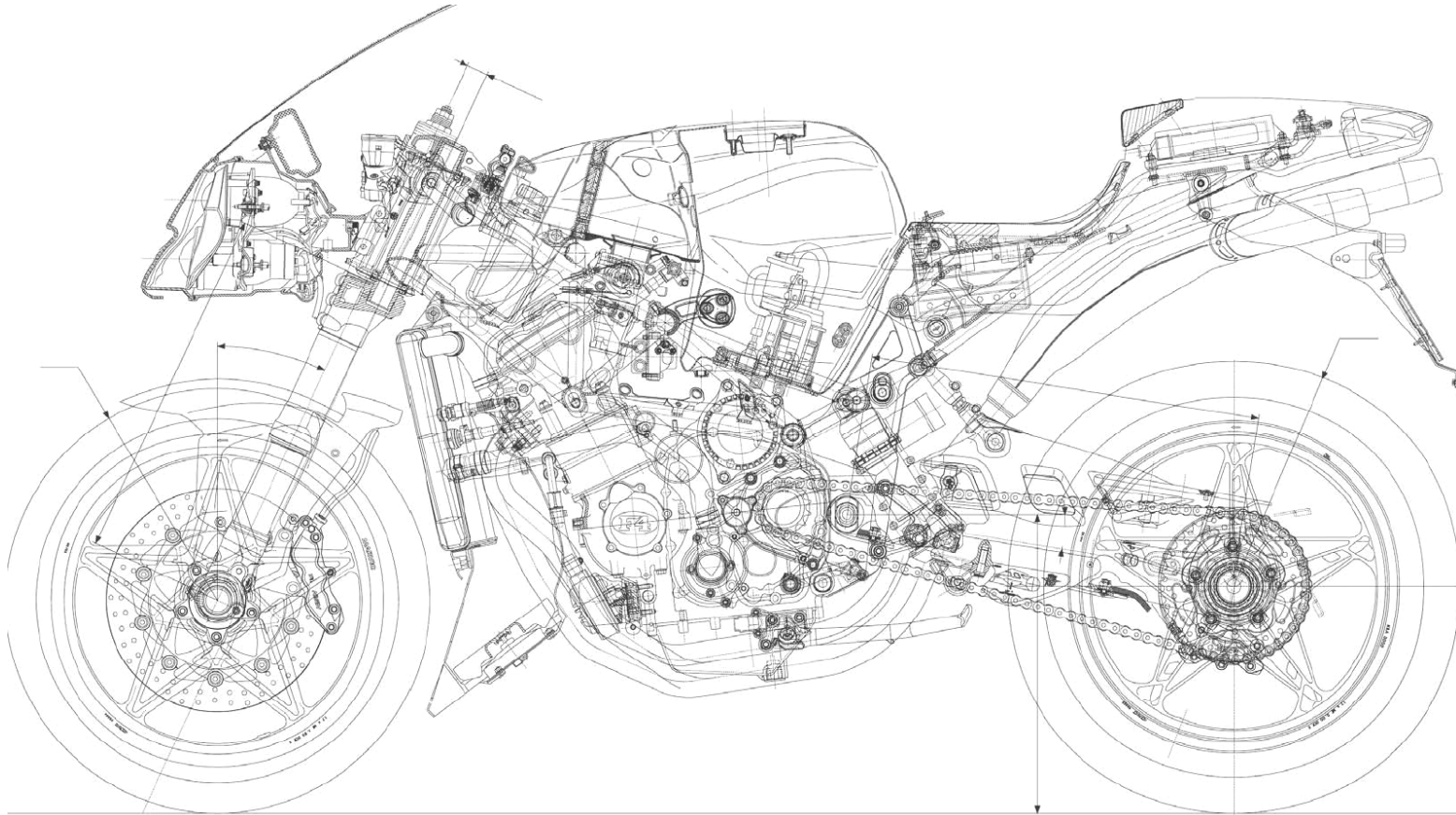


F4-1000

Motorcycle Art



How to Mount a Moto Accessories MV Agusta F4 Hugger in Less than 30 Minutes

http://idealcycle.com/mv_agusta



Materials and Tools:

1. Electric drill
2. Tap drill (3.3 mm = 0.130" = #30)
3. Center drill
4. Center punch
5. M4 x 0.7 Tap
6. Tap holder
7. Tap fluid or low viscosity oil
8. 4 mm SST buttonhead or Phillips screw (3)
9. 4 mm SST washer (3)
10. 55 mm socket
11. Thread locker (Loctite, etc.)
12. Sharpie
13. Tape

Optional:

14. Sheet rubber
15. Liquid gasket or adhesive
16. Scissors
17. Razor blade / Xacto knife



1. After removing the spring retainer clip, use a 55 mm socket to demount the wheel nut.
2. If a 55 mm socket is not available, a 2-3/16" socket will serve well if a cloth is first placed over the nut as shown in the photo. Select a thickness of cloth that removes all play between the socket and nut.
3. Remember that the nut threads are left-handed and so must be rotated clockwise for removal.
4. It has been found that the rear wheel nut can be difficult to remove because it is torqued to 220-240 Nm [162-177 ft-lb]. It helps to have a massive friend stand on the rear brake pedal. Sometimes it is also necessary to employ a cheater bar to increase the leverage of the wrench handle. As can be seen in the photo, steel pipe or electrical conduit can be slipped over a wrench handle for this purpose. Good advice: Use only a high quality 1/2" or 3/4" ratchet or flex handle wrench for removing the rear wheel nut.

Remove Rear Wheel



High quality



1. In two locations apply double-sided tape or make tape loops as shown.
2. Position the hugger so that it fits in the contour of the swingarm and press so that the tape holds it in place.
3. If using the tape loop method it is helpful to extend the loop far enough that it can be adhered to the top of the swingarm as indicated by the red arrow at left.

Tape Hugger in Place

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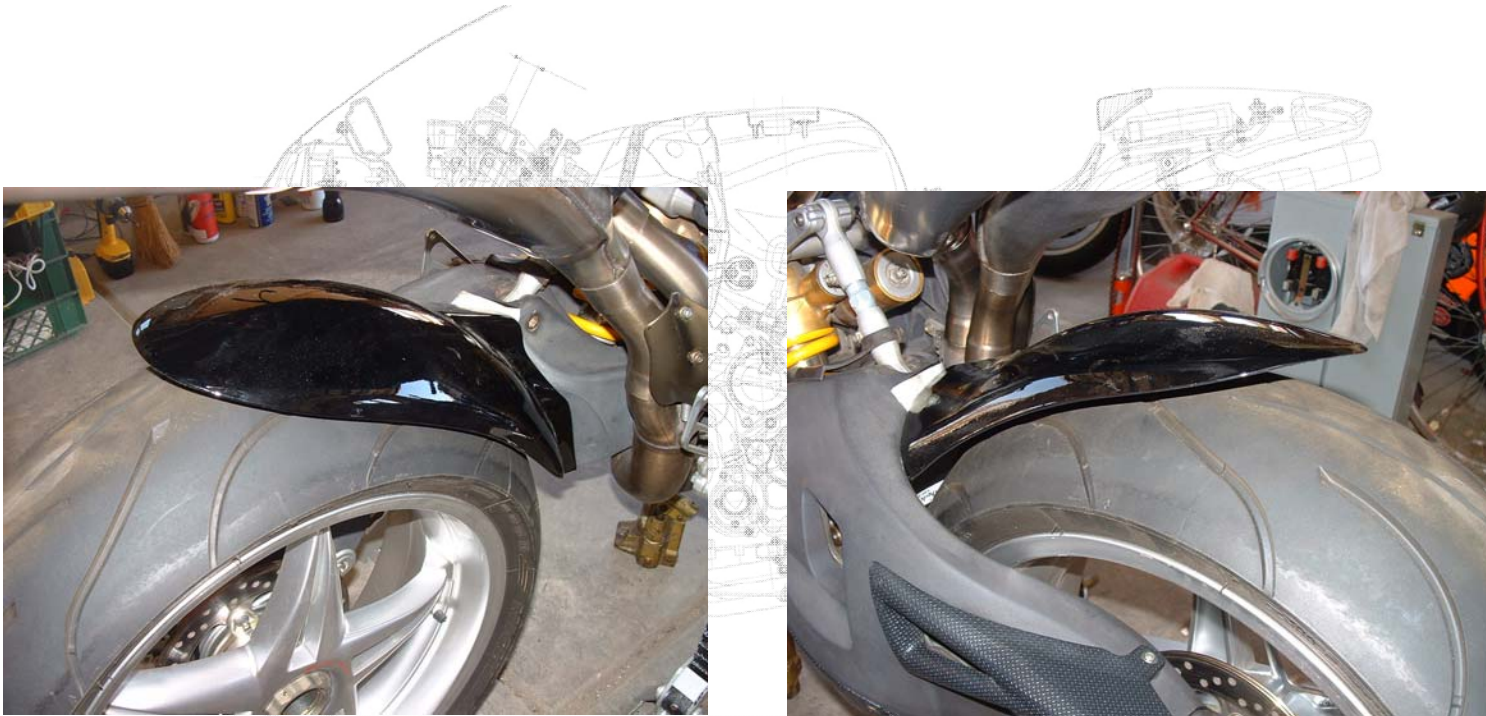
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Remount Wheel (hand-tight only)

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Check Centering from All Angles

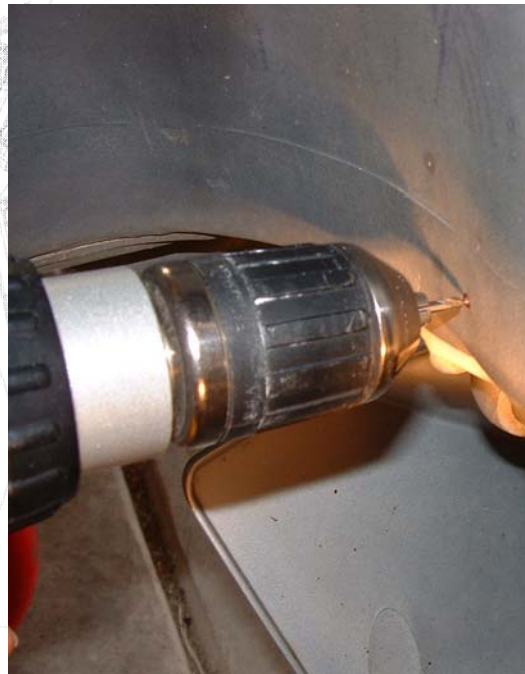


1. Carefully remove the wheel without disturbing the position of the hugger.
2. Press the hugger against the swingarm with one hand.
3. With the other hand use a Sharpie-type permanent marker to create a hole location indicator at each of the 3 mounting holes.
4. It doesn't matter too much what color is used. **Red**, **blue**, and **black** all show up just fine.
5. Use a circular motion and try to fill in the area completely. This makes a solid dot that is easier to see when it comes time to drill and tap the mounting holes in the swingarm.
6. After all 3 holes have been marked, remove both the hugger and the tape in preparation for the next step.

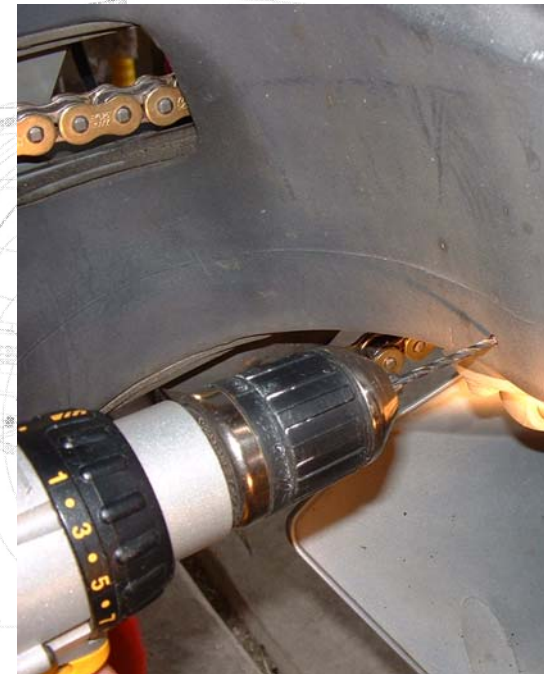
Remove Wheel and Mark Hole Positions



1. Center punch in the middle of each dot



2. Use a center drill to create a pilot hole.
Note: a 1/16" drill can be used instead



3. Drill 0.130" tap pilot hole. A 1/8" drill will also work.

Center Punch and Drill Holes



1. Use a 4 mm tap to thread each hole. If you already know how to do this, skip the explanation below and proceed to the next step.
2. Mount the M4 x 0.7 tap in the holder.
3. Apply aluminum tap lubricant to the tap. If this is not available a low viscosity machine oil will work as a substitute.
4. Position the tap in the hole so that it is lined up with the hole centerline. This is important because if the tapping begins off-axis the tap can break in the attempt to complete the threading. Broken taps are bad news.
5. While pressing down into the hole rotate the tap holder clockwise a few times until the cutting teeth begin to grab and pull the tap into the hole.
6. While keeping the tap aligned with the hole, rotate 1/2 turn in (clockwise) followed by 1/4 turn back (counter- or anti-clockwise). This is to clear the chips and prevent the tap from jamming and breaking. Try to apply even pressure on each side of the tap holder handle while doing this.
7. Repeat step 6 until the hole is completely threaded and the tap breaks through and spins freely with no resistance.
8. Do not force the tap. Taps are harder than drills and cannot be drilled out if they break.

Tap Hole Threads



1. This step is optional.
2. Paint liquid gasket or adhesive on some sheet rubber. An old inner tube can be used for this purpose.
3. Once the material has set up, press 3 stainless steel washers on to it and let cure. If this procedure is completed beforehand the cure will take place while you are still figuring out how to get the rear wheel off.
4. Trim the outsides away with scissors. Use the scissors in your toolbox. Do not use the good scissors. If you are married or have a mother you know what this means.
5. Use a razor blade or X-acto knife to pierce the center of the rubber.
6. Push a 4 mm x 8 stainless steel buttonhead or Phillips head screw through the hole in the center of the rubber from the washer side.

Optional: Mount Rubber to Washers

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Apply Loctite to Screws and Mount Hugger

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Remember to install the nut retaining clip

Mount Wheel and Torque to Spec