

# TECHNICAL

## DUAL DISC'ING YOUR DUCATI 860

by James Singleterry

Adding a dual disc to your Ducati can be one of the most rewarding modifications you can make to your motorcycle. The increased feel at the lever, and the reduced pressure required to do the same amount of work as previously needed, balances out to present to the operator a confidence in high speed braking previously achieved only with the thought in the back of one's mind of a need for something better.

Here-in, is the procedure, and a parts list necessary for adapting a Ducati with a dual front disc.

The parts required, and their respective prices, are listed as follows:

### Ducati parts:

Disc	0795.77.344	\$85.49
Flexible metal brake tube	0795.54.173	2.98
Washer for in between metal tube and rubber hose	0023.37.153	.06
Rubber grommet	0796.37.770	.20
Flexible rubber tube	0796.54.178	6.80
Hose support bracket	0796.37.760	.80
Copper washer	0795.54.116	.20

### Moto Guzzi Parts:

Brake caliper	1465.3001	\$49.00
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### Miscellaneous parts:

STP DOT 5 Silicone brake fluid, 12 fluid ounce can	4.50
2 bolts, 10-1.5 x 45 mm, 2 nuts, and washers.	

After receiving your parts the first thing to do is to disassemble your front end and inspect all parts for weakness and wear. It is recommended that at this time the front fork oil be drained, and the front sliders disassembled and cleaned.

Upon reassembly of the front fork sliders it is also advisable to turn the fork legs around so as to place the weight of the brake calipers behind the steering axis so as to not slow down the steering of the motorcycle at high speeds.

Another item that should be taken care of at this time is the drilling of the discs for lightness and braking ability. Enclosed with this article is a template that can be used to set up the discs for drilling.

Briefly, the hole pattern is similar to the one used by BMW on their R90S. Which, is to say, the pattern is symmetric and can be used on both the left and right side without modification.

Once all of the above has been completed it is now time to assemble the front end with your new disc brake parts.

Step 1 Drain the brake fluid from the existing system.  
 Step #2, Remove the plug from the diverter block located under the headlight and attach the flexible rubber hose in its place.  
 Step#3, Connect the rubber hose to the flexible metal brake tube tube with the hose support bracket, rubber grommet, and the special sized metal washer inbetween.

Step 4, Mount the brake calipers in their respective locations and bolt the hose support brackets into place. (With the Moto Guzzi caliper it will be necessary to use two 10-1, 5x45 MM Bolts, two nuts, and washers to secure it to the fork leg as a Moto Guzzi caliper is not prethreaded.) Next, bend the metal tubes into an "S" shape to fit the new location of the brake calipers. But, be very careful with this operation as the metal tubes can become crimped very easily. Perhaps the best way to do this is to bend the tubes around something round of the approximate size required.

Step 5. After the above step has been accomplished, unmount brake calipers, and just let them hang. With the calipers in place it is impossible to slide the tire past them.

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Step 6. Now, bolt the front wheel, with the disc attached, onto the front forks. You'll discover that this will require a careful touch as the clearances are extremely narrow..

Bolt the calipers into place and check the calipers and disc rotors for spinning trueness by gently rotating the wheel.

Step 8, Now, that all of the above steps have been completed. All that remains is to fill and bleed the calipers with DOT 5 brake fluid.

One final note, the Moto Guzzi caliper has a slightly different bolt mounting width. On close inspection with it and the Ducati caliper this will come readily apparent. With my particular installation this presented no problem. If for some reason there should be a problem, it can be easily remedied by removing some of the material located in this area with a file.

I hope that anyone who takes the time to add a dual disc to their Ducati, enjoys them as much as I do. I believe they make an already outstanding motorcycle that much closer to perfection. 3037 Blackpool Way, Rancho Cordova, CA. 95670 Phone 916-363-1676



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