

## **FIX COMMANDO OIL LEAKS IN 5 MINUTES!**

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This part works on all Commandos 1972-1975, and it installs without any tools. Simply substitute this valve in place of the stock engine breather hose reducer piece, near the filler neck of the oil tank. You will be amazed at the results. It can also reduce oil consumption by as much as 50%. Full details inside.

*This tech tip, and the improvement it can bring to your Norton are a sample of the benefits you get by being a member of the INOA. Each issue of the Norton News brings you many useful ideas and sources for parts to increase your enjoyment of one of the worlds finest motorcycles. Join the INOA at :  
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Many of us have discovered that our Nortons tend to leak more oil as they age. At 30k miles, my 850 started weeping oil out the head joint. Several gaskets and oily weekends later, I realised the leak wasn't from the mating surface, but from the casting around the push rod tunnel.

By 40k miles, several other places were leaking, including the case joint and the tach drive (despite the seal mod!). Finally I concluded these symptoms could all be caused by pressure inside the motor. I installed a hose fitting on the intake valve cover and connected a gauge that measured from 10 psi vacuum to 10 psi pressure. My first ride confirmed the theory, showing positive pressure of up to 2 psi inside the motor at 4500 rpm. My first thought was to use a PCV valve in the breather, but none of the various versions I tried seemed to help, and some made the problem worse.

After some research, I found several mentions of the HELP #80190 brake booster valve in similar applications. With this valve installed in the large breather hose, pressure at the head dropped to -2 psi (vacuum) at idle. This gradually increased with engine speed, to just slightly negative pressure at 4500 rpm. Test rides totalling 1000 miles showed that all of the oil leaks were gone, and oil consumption decreased from 350 miles per quart to around 700 miles. At under \$5, this is the most cost-effective Norton accessory I've seen, and every Norton with the large breather should have one.

**NOTE: The big end of the valve goes toward the motor!**