



## M9 3-Channel ABS Installation Instructions



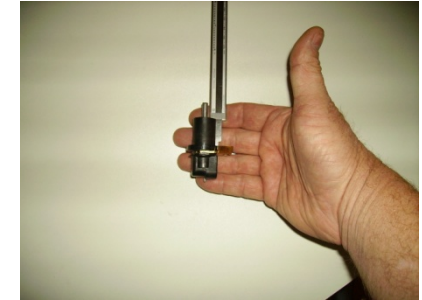
### ABS Sensor Installation Step 1

Minor Machining to the ABS pickup may be required to allow for proper clearance from the reluctor ring and the sensor tip. Using a dial caliper measure from the top edge of the sensor bung to a reluctor ring tooth.



### ABS Sensor Installation Step 2

Measure the sensor bung to tooth depth as shown. Make this measurement in several places around the circumference of the reluctor to determine what the shallowest depth may be. The shallowest depth will be the dimension used to determine the overall length of the sensor.



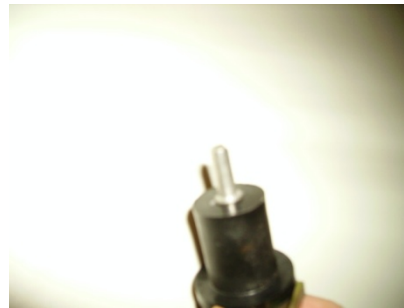
### ABS Sensor Installation Step 3

Measure the length of the body of the sensor. Record this dimension. Measure the length of the sensor stem. Add this to the body dimension. The total of the body dimension and the sensor tip dimension should total .010 to .020 less than the shortest dimension recorded during the measurements made in step 2.



### ABS Sensor Installation Step 3

Measure the length of the sensor stem. Add this to the body dimension. The total of the body dimension and the sensor tip dimension should total .010 to .020 less than the shortest dimension recorded during the measurements made in step 2.



### ABS Sensor Installation Step 5

If it is determined that the sensor tip needs to be shortened for proper clearance, this operation may be done on a bench grinder. Be careful not to remove any more material than necessary! Trying to stay on the minimum side of the clearance will insure a good signal from the sensor. The tip of the sensor will also need to be chamfered to the same width as the teeth on the reluctor to allow for a proper signal. These chamfers need to be parallel with the reluctor teeth for proper operation.



### ABS Sensor Installation Step 6 & 7

Install the sensor with the supplied hardware. A small bead of silicone will need to be applied to the body of the sensor to insure proper sealing. Using a Multi-meter set on the milli-volt setting; touch the leads to each of the male terminals inside of the sensor top. Turn the pinion yoke, there should be between a 20 to 70 milli-volt signal as the yoke is turned.