

# HOW TO MEASURE HEAD-PIPE DIAMETER

## WHY MEASURE?

By knowing the outside diameter size of your head-pipe, you can select the correct size muffler inlet / adapter, and ensure a correct and easy muffler installation. Your exhaust system is comprised of two parts: The head-pipe/s, which comes out of your cylinders, and typically stop after the foot pegs. And the muffler, which slips onto the head-pipe.

## MEASURING PROCEDURES.

Here are three easy ways to measure your head-pipe diameter:

### 1. Easiest and best way:

Direct diameter measurement is the easiest. Remove your muffler and measure **ACROSS** at the **END** of the pipe. Remember, we want the outside / largest measurement as the muffler inlet slips **OVER** your head-pipe.

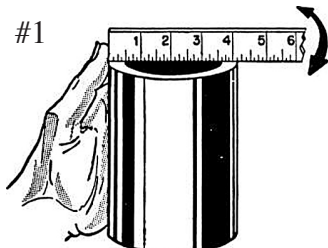


Figure 3-4.—Measuring the outside diameter of a pipe.

### 2. Second best way:

Direct diameter measurement with a caliper (useful if the end of the head pipe is not accessible.)



### 3. The most complicated: Using Pi.

Measure circumference (around the pipe) using a flexible tape and divide the outside circumference by 3.1415. ( $\pi$ ) Many people like using pi tapes to measure the pipe size. Pi tapes, which wrap around the pipe the same way but have units in diameter, can be expensive. With calculators everywhere today, dividing by 3.14 is a snap, making these pi tapes not necessary.

**REMEMBER:** All **stock** Harley-Davidson head-pipes are 1.75". Most metric are 1.5" Autos / trucks tend to be 2.25", 2.5", 3.0"

We recommend that this Tailgunner® exhaust system be installed by a qualified technician. Before installing this product, be sure you have a basic mechanical understanding of your vehicle. If you have any questions regarding your ability to perform a safe installation of this product, consult with an authorized motorcycle dealer or service center. Read all instructions and warnings thoroughly before installation. Tailgunner® designed this product to be consumer friendly with easy installation. However, you are working on sophisticated equipment that requires basic mechanical knowledge for continued safe usage.

**NOTE:** Tailgunner® Exhaust products are not intended to replace original manufacturer's equipment. Tailgunner® Exhaust specifically disclaims any warranties of mechanical or fitting for a specific purpose and also disclaims all responsibility for consequential damages or incidental damages or any other losses arising from the use of these parts and products. **NOTE:** Tailgunner® Exhaust warranties against defects in manufacturing for one year from date of purchase. **NOTE:** Tailgunner® Exhaust does not warranty any chrome finishes against discoloration. All exhaust systems change color. This is not a defect in manufacturing. It is recognized as an inherent part of usage. **NOTE:** Disassembly of your Tailgunner product voids all warranties. **NOTE:** Operation of vehicle with Tailgunner® Exhaust installed voids your ability to return product.