



Hornady®

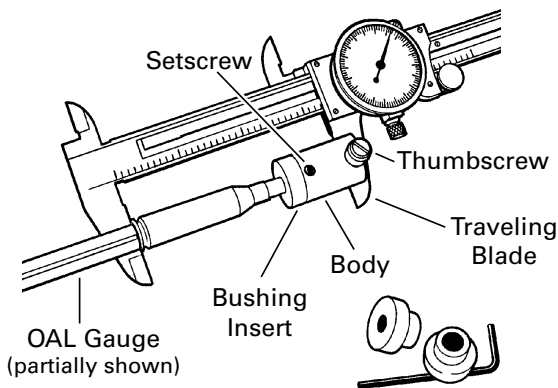
LOCK-N-LOAD®

BULLET COMPARATOR KIT & BASIC INSERT SET

Proper length rounds are fundamental to accuracy.
Make precise measurements with this tool.

INSTRUCTIONS

Attach Body to caliper blade with provided Thumbscrew. The slot in the Comparator Body is machined to allow either off-center or on-center alignment with your caliper blade, depending on which of the two threaded holes are used.



When using the OAL (Over-All Length) Gauge and Bullet Comparator in combination, always attach the Comparator Body to the traveling blade - in the off-center position - then measure using the configuration shown in the illustration. This method will align the OAL Gauge parallel to your caliper. For all other uses, the Comparator Body may be attached to either blade in the on-center position.

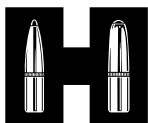
Place Bushing Insert (corresponding to bullet diameter) into Comparator Body. Prior to measuring, close the caliper blades snugly on the Bushing Insert and Comparator Body, and tighten the Thumbscrew and Setscrew. Then, "zero" your caliper (to 1.000") by setting the dial to "0" to achieve the same starting point in future measurements. To take a reading, open the

caliper blades, center the casehead (or bullet base) on the caliper's fixed blade and slowly close the caliper so the bullet nose feeds into the Comparator until contact is made. Be certain all surfaces are aligned and all slack is removed as light consistent pressure is applied to caliper blades.

When setting up your seating die, compare your results (using measurements taken with the Bullet Comparator) with those from the OAL Gauge or a dummy round. Remember, as you reduce the cartridge OAL from maximum, the difference will be free travel (jump) to the rifling.

Reducing bullet free travel to closely match the chamber dimensions can provide significant improvements in accuracy. However, for hunting rounds, we recommend that bullets are seated at least .020" off the rifling to ensure reliability in the field.

NOTE: different bullets have different ogive curvature (i.e. #6 vs. #10 ogive, and secant vs. tangent ogive). As a result, the bullet free travel (jump) may change as much as 1/16" or more when one bullet model is substituted for another. Therefore a comparator cannot be used to transfer dimensions from bullet style "A" to bullet style "B", as this would be an "apples and oranges" comparison (the same reason the micrometer - which employs an imitation bullet - produces errant results). When changing bullet models, it is imperative to get new cartridge OAL dimensions from reloading reference material, or from the firearm itself using a bullet seating depth gauge. The best gauge for this purpose is the Hornady® OAL Gauge.



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Simply stated, the Bullet Comparator measures loaded rounds...precisely!

Measuring cartridge lengths across the bullet tips is not a reliable (or repeatable) method for measuring your loaded rounds. It is not uncommon for variations of up to .025" to exist from one round to the next when measured across the bullet tips. Bullet tips vary considerably due to the way in which bullets are made. Our Bullet Comparator solves that problem by measuring your rounds from a reliable surface on the bullet – the ogive – to provide consistent, precise measurements of your rounds. The Bullet Comparator is also used by many shooters to check uniformity of bullets – from base to ogive – which is critical to accuracy.

Our Bullet Comparator easily attaches to the blade of your caliper with a thumbscrew and uses interchangeable insert bushings to measure from the bullet ogive. These bushings are available in 14 sizes from .17 caliber to .45 caliber.

The Basic Set (B234) includes these inserts:

.224 (5.56mm), .243 (6mm), .257, .264 (6.5mm), .277, .284 (7mm), .308 (7.62/8mm).

When used in conjunction with the OAL Gauge, the Bullet Comparator provides the ultimate in precision measurement. The Bullet Comparator will properly align the OAL Gauge for proper, precise measurement using your caliper. This method allows direct comparison of your loads as you set up your bullet seating die for the correct bullet free travel (jump). ***Complete instructions included.***



CA WARNING: Risk of cancer and reproductive harm from exposure to lead. See www.P65Warnings.ca.gov



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Item No. B234

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Made in the U.S.A.

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