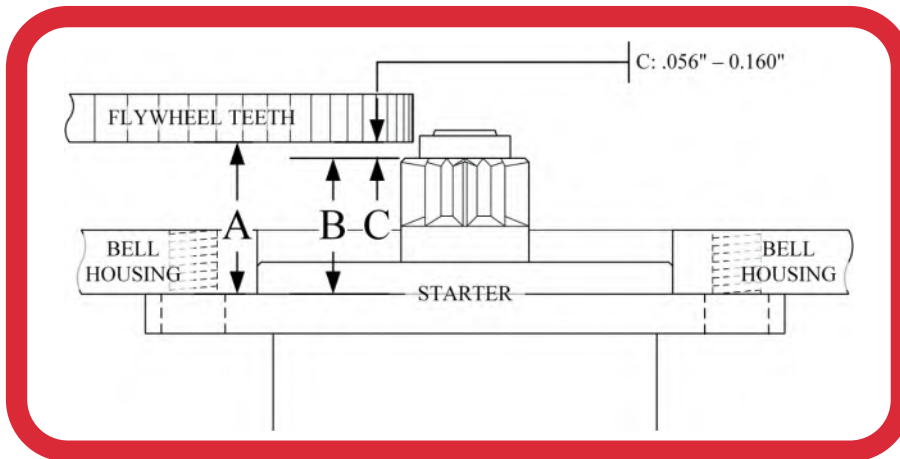


Do you like our starter dimensioning guide? These are sample pages from our Complete Book on Hi-Torque Starters available [here](#).

How to determine the A, B and C dimensions for any Hi Torque starter replacement:

Remove the original starter and measure these distances. See illustration below. Accuracy should be within 1/16" using an adjustable carpenter square or depth gauge.

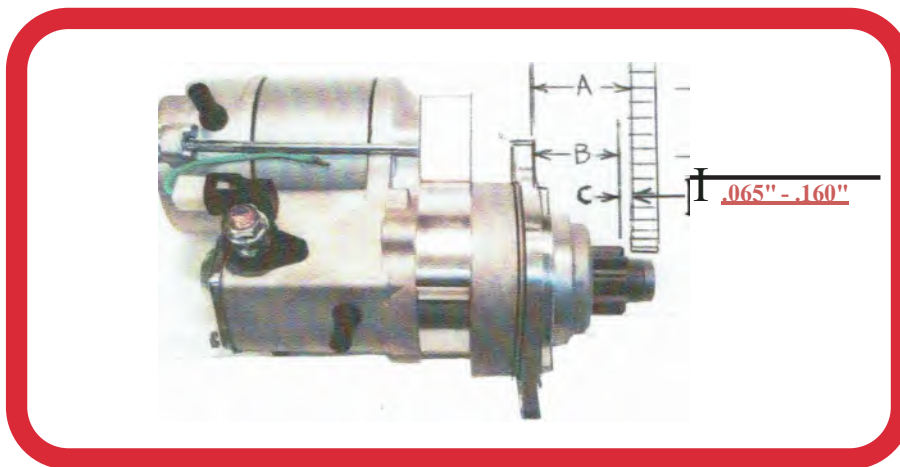


The 'A' dimension is the distance between the starter mounting flange on the bell housing to the flywheel ring gear. See image with yellow tape measure.

The 'B' dimension is the distance between the starter mounting surface to the at-rest pinion gear.

The 'C' dimension is the clearance between the teeth of the starter gear at rest and the teeth of the flywheel ring gear.

Good Clearance Formula: $A - B = C$, So "C" Clearance = $.065" - .160"$



Note: Vintage Auto Garage starters are shipped with the correct OEM spacing from the front of the pinion gear to the flywheel ring gear, this is shown as "C" in the image above. In the event more "C" clearance is needed. You can install a 2 MM thick shim between the mounting plate and the motor assembly by removing the 2 Allen screws. This added shim will increase the distance from the pinion and ring gear by 2MM.

How to determine the "A" Dimension Measurement.

Remove the starter and measure as shown below.

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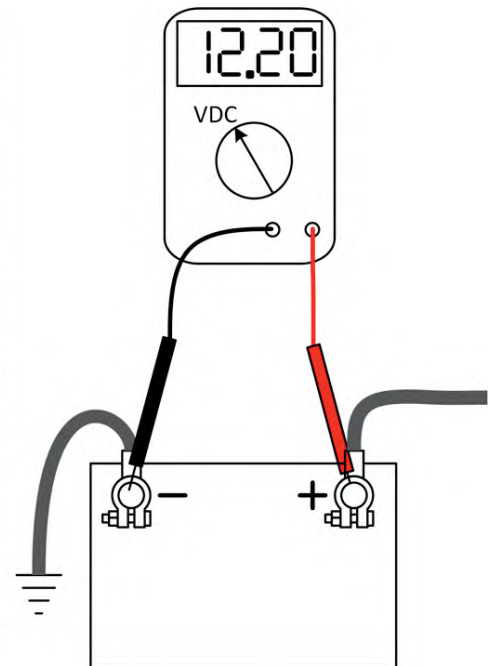
How to determine the “A” Dimension Measurement. Remove the starter and measure as shown below.



Testing the Starter System for voltage drop can be caused by high resistance cables or corrosion.

Performing voltage drop tests on both positive and ground sides of the circuit is important to determine possible fault. The most common places for voltage drop to occur is at the battery connection, the solenoid, the starter and along the cables.

Minimum Battery Load Test Voltage	Battery Temp °F
9.90V	100°F
9.80V	90°F
9.70V	80°F
9.60V	70°F
9.50V	60°F
9.40V	50°F
9.30V	40°F
9.10V	30°F
8.90V	20°F
8.70V	10°F
8.50V	0°F



Connect a voltmeter to the battery cable post on the starter and crank the engine. The voltage should be 9.6 volts or higher. Lower voltage usually means battery, cable or possibly grounding issues.