

Vintage Auto Garage LLC 800-516-4461

Instructions for Part Number 3500GR and 3599GR Gear Reduction 12 volt Starters.

Fits Chevrolet 216 and 235 6 cylinder engines.

Before you install starter make sure you have the correct part number starter for your engine.

3500GR starter fits engines with 139 teeth flywheels (common in car engines)



3599GR starter fits engines with 169 teeth flywheels (common in truck engines)

To determine the number of teeth on your engine flywheel, remove the starter and carefully count the teeth on the flywheel by rotating the engine. Start by marking one tooth on the flywheel with a marker pen and hand rotate the engine and count the teeth. (You may need to remove the spark plugs to make it easier to rotate the engine by hand).

When installing the new gear reduction starter you will also want to make sure the clearance between the front starter pinion gear and the flywheel is within tolerance.

The front edge of the flywheel to front edge of the starter pinion gear should be $.100 \pm .040$ this clearance ensures proper disengagement of starter gear when starter is at rest. If the dimension is not correct you may need to install a $.080$ shim between the starter mounting frame and the center housing of the starter to achieve proper spacing of $.100 \pm .040$ See drawing.

After installing starter and tightening bolts, reconnect the cables as they were before and test the starter. If installing new starter on a vehicle that was previously a foot pedal manual starter use WKS1 wire kit.