Installation Instructions Flywheels

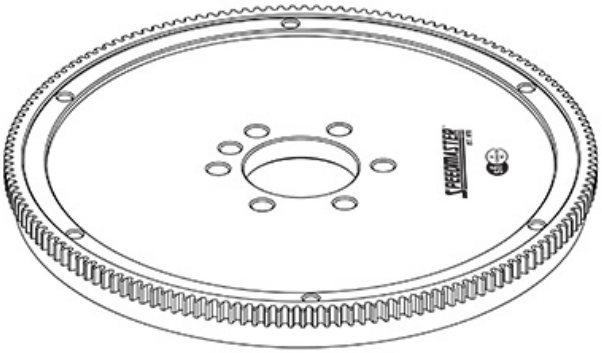
3/14/2017

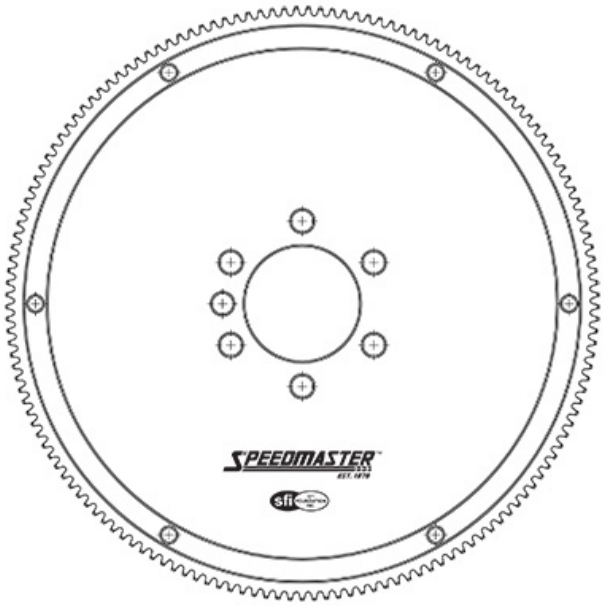
By Marketing Speedmaster

Warning! These instructions must be read and fully understood before beginning the installation. Failure to follow these instructions may result in poor performance, vehicle damage, personal injury, or death. If these instructions are not fully understood, installation should not be attempted.

Introduction

Speedmaster Flywheels are fully machined from a high tensile aircraft billet steel. The high carbon steel material is incredibly strong and can withstand the rigors of the most extreme engines, drivers, and road conditions.





Recommendations

Speedmaster recommends the following:

- Ensure that the supplied flywheel is correct for the intended application prior to the commencement of installation. Consult your supplier or Speedmaster tech support if unsure

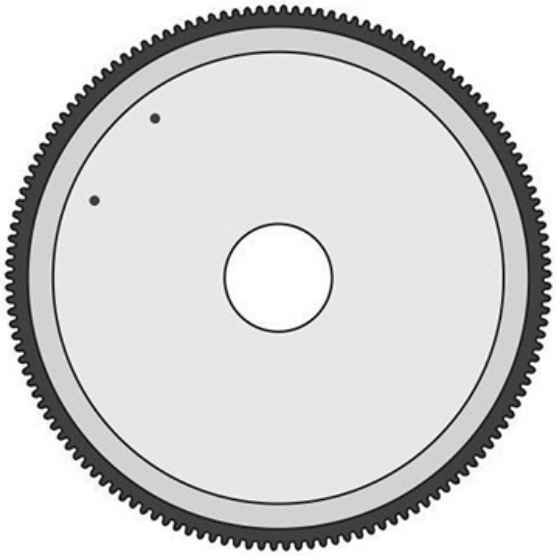
of application compatibility.
- Professional installation by a qualified technician.
- Install a new clutch disc, pressure plate, throw-out bearing and spigot bush (or bearing) with your new flywheel to ensure a trouble free operation.
- Do not reuse the original flywheel bolts. Speedmaster supplies flywheel bolts as a separate accessory. Please contact your Speedmaster reseller or Speedmaster technical support for more information. Alternatively, source new OEM bolts or an appropriate alternative from other bolt manufacturers. Refer to your OEM recommendations regarding bolt strength grade.

Package Contents

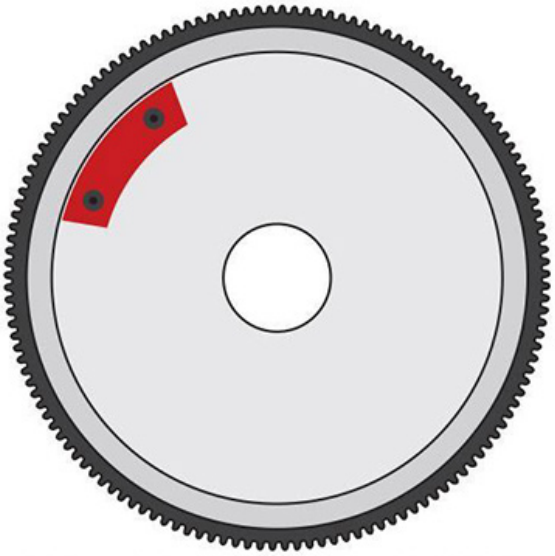
Each Speedmaster DNA flywheel kit includes:

- CNC machined and zero balanced billet steel flywheel.
- Factory compatible starter motor ring gear. The ring gear is heat shrunk and bolted to the flywheel.
- External balance weights (if applicable).

External Balancing weights installation



Internally Balanced (Counter Weight Off)

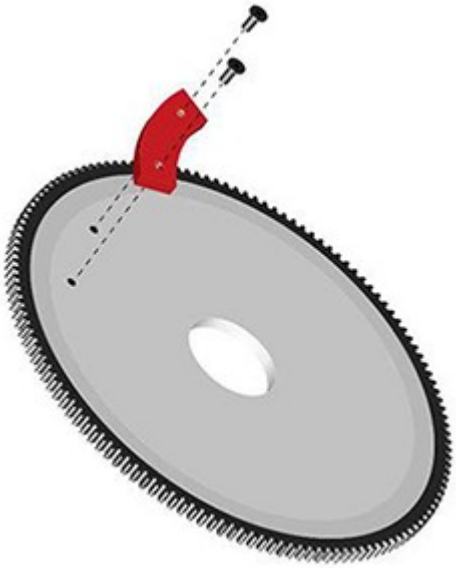


Externally Balanced (Counter Weight On)

Please note: The coutner weight is not installed, for engines with external balance (counter weight on); the counter weight will need to be installed.

How to Install Counter Weight for Externally Balanced Applications.

The counter weight must be attached to the flywheel using the 2x allen head bolts provided.



Installation Instructions

- Once the original flywheel is removed. Inspect the mounting surface on the rear of the crankshaft for any corrosion. Clean the mounting face appropriately and ensure that the surface is free of any rust and is flat.
- Inspect the flywheel bolt threads on the rear of the crankshaft. Ensure that the threads are corrosion free and without any internal debris.
- The flywheel is shipped with a corrosion preventative coating. Ensure that the flywheel surface is cleaned by wiping it with a cloth damped with an appropriate degreasing solution such as brake cleaner or lacquer thinner. Then, wipe the flywheel face with a clean dry cloth. Failure to clean the flywheel surface may result in clutch slippage and premature wear.
- Align the flywheel mounting holes with the mounting holes on the rear of the crankshaft.
- Insert flywheel bolts in the flywheel and hand-tighten in a circular order. Do not re-use original flywheel bolts.
- Torque bolts to 15 Nm in a cross-star pattern.
- Remove one bolt at a time and apply Loctite 243 blue thread-locker (or equivalent) to flywheel bolt threads. Then, re-install the bolt and torque to 15 Nm. Repeat process for all flywheel bolts.
- Once the thread-locker application process is complete, refer to your factory manual and continue to torque the flywheel bolts according to manufacturer’s specifications. Do not use an impact driver to tighten the flywheel bolts.