Possible crank gear interference issue!!!

When installing classic style adapter.

Starter adapters 635050A4 (classic) and 643259A18 (new style) are eligible for installation on most sand cast, rear alternator, 470, 520 and 550 series engines. (See over)
Continental introduced the “new style” starter adapter on August 14, 1992 via SBM92-10. The Classic / Original style starter adapter had been in service for over 40 years at this time.
On September 9th, 2008, Continental issued SB08-12 mandating the installation of an improved crankshaft gear, part number 657175 at overhaul or on engine disassembly. The teeth, on this new crank gear, interface almost 0.085” further into the starter adapter shaft gear teeth, improving serviceability.
The “new style” starter adapter does NOT have any clearance issues with the improved crankshaft gear, part number 657175. Use the standard adapter gasket, p/n CAM653749.

Many aircraft owners / operators / repair & overhaul facilities prefer to install the Classic / Original style starter adapter. If this is the case, be aware that there COULD be an interference problem when installing the “Classic” 635050A4 starter adapter. The starter adapter friction sleeve may contact the heads of the crankshaft gear bolts.
If this is the case, our 0.060" thicker gasket (CAM653749P060) will allow you to complete the installation.

To determine if you have an interference issue follow these steps.
Before measuring the clearance, the crankshaft MUST be pushed as far to the rear (back) of the engine as is possible. Note that Continental service limits permits up to .025” fore & aft movement!

Check Friction Sleeve height – should be 1.100” – 1.105”

- If measurement from the rear of the case to head of bolt is more than 1.100” install Standard Gasket
- If measurement from the rear of the case to head of bolt is between 1.100” and 1.040” install our CAM653749P60 Gasket
- If measurement from the rear of the case to head of bolt is less than 1.040” call us.

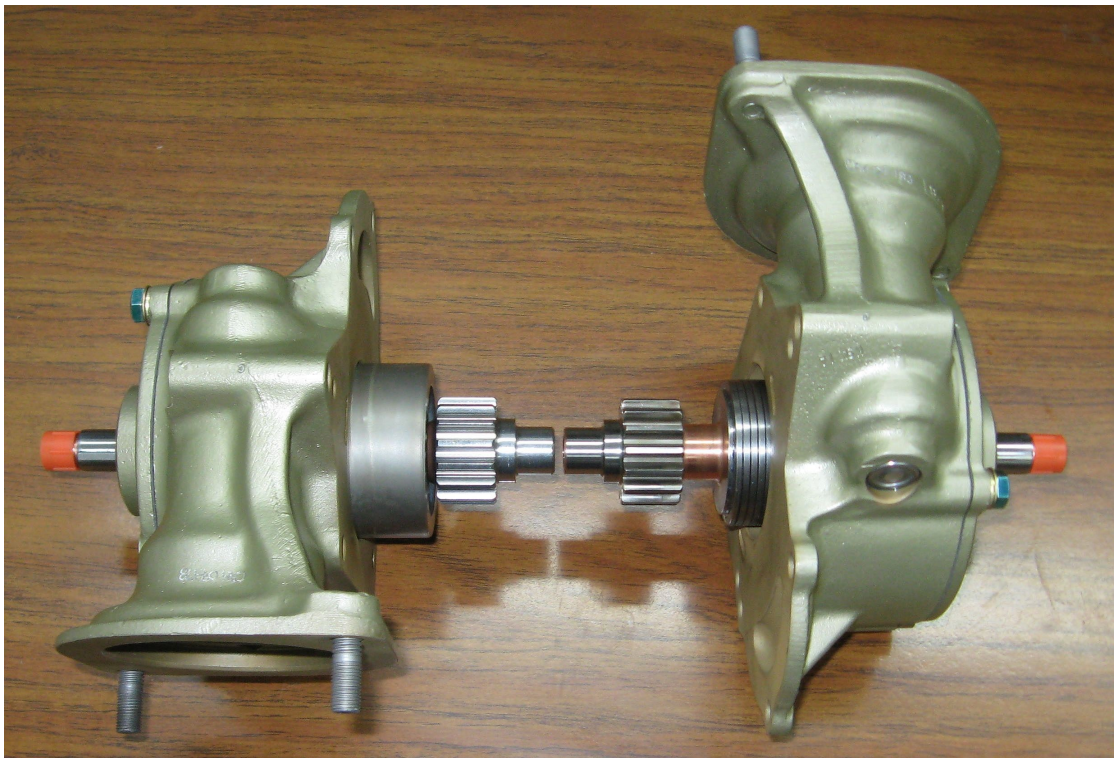
After installing the Classic / Original style starter adapter, ALWAYS rotate the engine slowly BACKWARDS for at least one full revolution. Push the crankshaft toward the rear of the engine while rotating to confirm no interference between the crankshaft gear bolts and the adapter friction sleeve.

If you have any questions or encounter any difficulties, please contact Canadian Aero Manufacturing or Niagara Air Parts, Inc. at 800 565-4268 or 705 326-1368.

2648 Ego Side Road, Severn, Ontario Canada L3V 0Y1
USA 800 565 4268 or 705 326 1368 Fax 705 326 8105 email sales@niagaraairparts.com

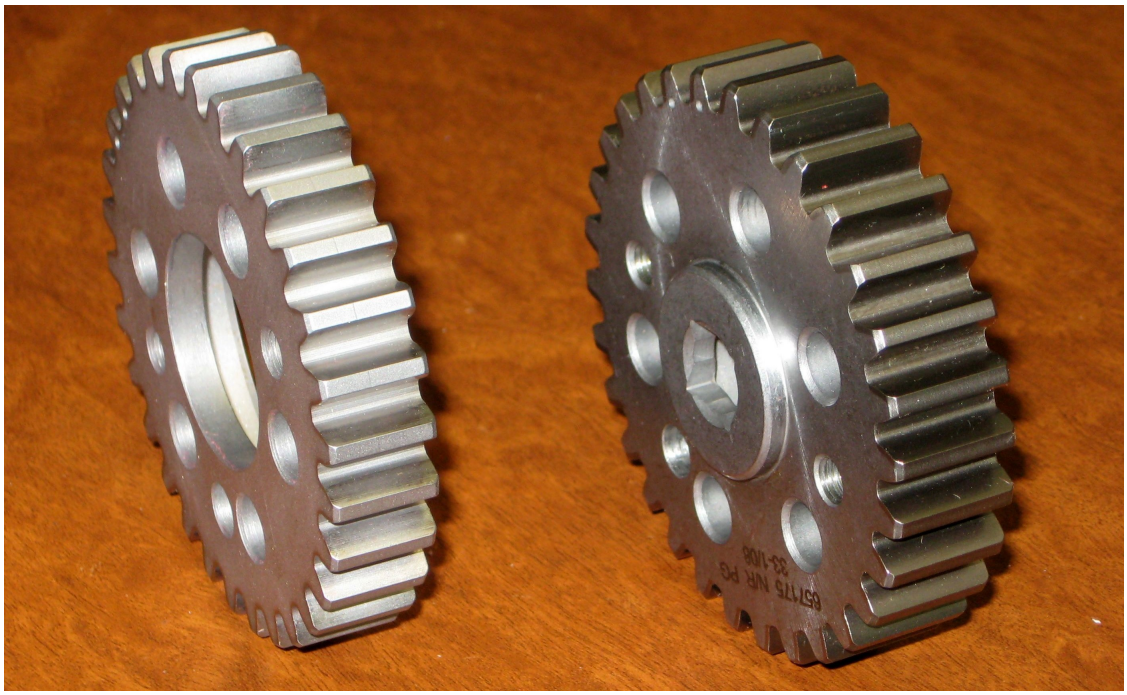
A Division of 978652 Ontario Limited

Revision: June 2025



Classic “Original Style”
Starter Adapter p/n 635050Axx

New Style Starter adapter as per
SB M92-10, p/n 643259Axx



Old Crank Gear
536421 / 653631

New Crank Gear
657175