



C-5 S.F.I. UNDERDRIVE CRANK PULLEY PART #1593

INSTALLATION INSTRUCTIONS

NOTE; INSTALLATION OF THIS KIT REQUIRES THE FOLLOWING PARTS-

- (1) 76" 6 RIB BELT
- (1) 41" 4 RIB BELT
- (1) REPLACEMENT CRANK BOLT. **GM PART # 12557840** (Retail price under \$5.00) **ORIGINAL BOLT IS ONE USE ONLY.**

Tools required; 2 post lift (preferable) or jack and sturdy jack stands, impact wrench, torque wrench, ratchet, 10mm, 15mm, 18mm, & 24mm sockets, 13mm, & 18mm open end wrenches, sturdy 3 prong balancer puller tool.

ATTENTION!

DUE TO THE TIGHT PACKAGING OF THE CORVETTE MODEL, THE STEERING RACK NEEDS TO BE REMOVED FROM THE CAR TO FULLY ACCESS THE CRANK PULLEY!

STEP 1 (Pic. 1) Remove both of the serpentine belts one at a time by placing a 15mm socket or open end wrench onto the center bolt of each tensioner pulley and rotating it clock-wise while slipping the belt off of the tensioner pulley.

STEP 2 STEERING RACK REMOVAL (Pics. 2&3)

- A** Lift the car high enough to access the crank pulley. **A 2 post lift is preferred.**
- B** Remove the front wheels.
- C** Remove the steering shaft- to- rack coupling bolt.
- D** Remove the rack- to- subframe bolts.
- E** Unplug the electrical connector from the steering rack.
- F** Remove the tie rod to spindle nuts. Once removed, turn each nut upside down and thread it back onto the tie rod until the flat bottom of the nut is flush with the end of the threaded stud. At that point you can use a hammer to gently strike the nut /stud to drive it out of the spindle.
- G** Loosen the nuts that hold the ABS unit to its mount to allow the unit to move slightly for rack removal.
- H** Disconnect the **(2)** 18mm fittings that hold the steering fluid lines to the rack.
- I** Remove the steering rack by pulling it out from the driver side wheel opening. You will need to rotate the rack in order to work certain portions of the rack out through the relatively small opening between the chassis and the body of the car.

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IMPORTANT- All appropriate safety equipment(i.e: gloves,tools) must be used during the installation of these product(s).
BBK Performance, Inc. accepts no responsibility for injuries resulting in the installation of any product(s).

- STEP 3** (Pic. 4) The stock balancer has three perches cast into it for a 3 prong puller tool. Attach the hooks of the puller tool to the balancer and use the head of the stock crank bolt as a pressure point for the drive bolt of the puller tool. Tighten the drive bolt on the puller tool until the balancer and bolt can be removed from the crank snout completely. ***Be sure to pay close attention so you don't run out of gap between the bolt and the pulley. You may find it necessary to back the crank bolt out further as the crank pulley starts to slide off of the crank snout.***
- STEP 4** Inspect the crank snout to ensure there are no burrs or rust. If necessary, polish with very fine emery paper or steel wool, and then wash clean.
- STEP 5** Apply a light bead of RTV to the keyway of the BBK balancer.
- STEP 6** Apply a thin coat of motor oil to the crank snout.
- STEP 7** Place the balancer onto the crankshaft. ***Note; If you have are installing this kit onto an aftermarket crankshaft with a key, be sure to line the crank key up with the keyway in the balancer when installing.***
- STEP 8** Push the balancer onto the crank snout as far as possible by hand, and then use the factory bolt to pull the balancer onto the crank snout with a ratchet. ***DO NOT USE IMPACT WRENCH TO START THE BOLT!*** Once the original bolt has been threaded in far enough to ensure proper engagement (6 or more threads into the crank), remove it and install the **NEW** bolt. Once the **NEW** bolt is installed you can use the impact to drive the balancer onto the crank.
- STEP 9** Follow the GM torque specs to complete the balancer installation.
- A** Torque to **240** ft- lbs.
 - B** Loosen the bolt.
 - C** Re-torque the bolt to **37** ft- lbs.
 - D** Tighten bolt an additional **1/3** turn.
- STEP 10** Reinstall the steering rack by reversing the process in **STEP 2**.
- STEP 11** Following the original routing, install the new belts by reversing process in **STEP 1**

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Installation Photos



Pic. 1 Remove belts



Pic. 2 Steering rack removal



Pic. 3. Steering rack removed



Pic. 4 Using the puller tool

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