



Hard-Charger

PERFORMANCE ENHANCEMENT KIT

**M8 2017-23 Hard-Charger Kit-
#HCPEKM8**



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Includes:



- 1- Inner Intern Pulley
- 2- Flywheel Drive Pulley
- 3- Cover Cap w/template- For early Procharger kits
- 4- Intermediate shaft assembly- includes:
 - Intermediate Shaft
 - Outer Intern Pulley
 - Bearing, Outer 17x40x12 sealed
 - Bearing, Inner 25x47x12 sealed
 - Flathead Cap Screw 3/8-16x3/4
 - Beveled Washer 3/8 ID
- 5- Compensator Bolt Assembly- includes
 - Compensator Bolt
 - Bearing, 25x52x15 Open
- 6- Hardware Kit- includes
 - Tube, Vibra-Tite 150 Med Wicking
 - 2-Hex Bolt Gr8 3/8-16x3/4
 - 2-Flat Thrust Washer 3/8 ID
 - 4-Screw, Flathead Cap #8-32x1/2

Hard-Charger Installation Instructions- 2017+ HD M8

Follow the instructions that are included with your Procharger kit.

1. When you get to 'ProCharger Crankshaft' section. Use the shaft bolt provided in this kit. **DO NOT** use the crankshaft bolt/bearing assembly provided by Procharger. (Hardcharger part pictured below)

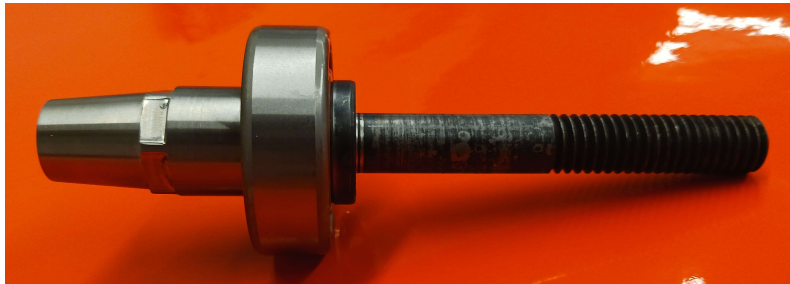


Figure 1

2. Continue to follow the instructions in your installation manual until 'ProCharger Primary Cover' step #12.
3. You will use the Hardcharger 5.10" 4 rib pulley instead of the pulley provided in the Procharger kit. To Install the Hardcharger pulley, you will use the following steps and ignore Step 13 in the Procharger installation manual.



1. Apply Green thread locker onto bevel of pulley and bevel of the crank bolt. Non logo side. (Figure 3-1)

Figure 3-1

Figure 3-2

2. Install the pulley onto the crank bolt and seat the pulley by tapping with a dead blow hammer. (Figure 3-2)
3. Using 1 hardened bolt 3/8-16 x 3/4" and flat thrust washer- in the Hardcharger hardware kit- apply red loctite to the threads. And install

bolt/washer.

4. Using a wrench to hold the pulley, torque the pulley bolt to 30 ft/lbs. (Figure 3-4)

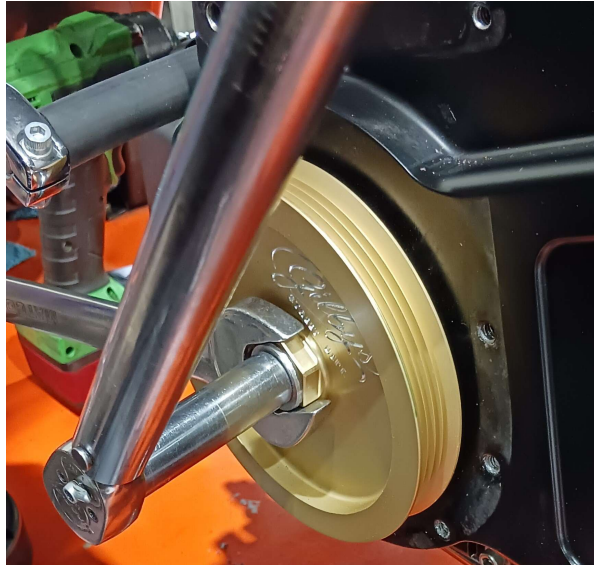


Figure 3-4

4. 'ProCharger Install'- the following steps will need to be done **before** beginning this section of the installation.

1. Locate your main bracket in the ProCharger kit.
2. Remove the intermediate shaft pulley bolt (the pulley that faces towards the engine)
3. Remove the pulley and press out the shaft and bearing.

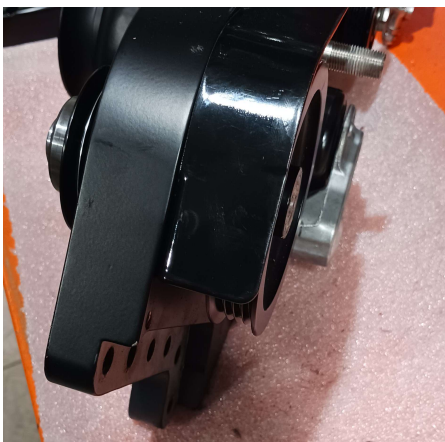


Figure 4-2

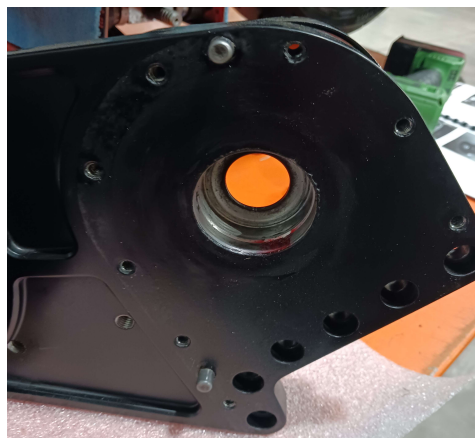


Figure 4-3

4. On the Hardcharger intermediate shaft. Put a light coating of red loctite on the outer bearing surface of the bearing to be pressed back into the bracket. (Figure 4-4)
5. Press the assembly, **taking care to make sure it is going in straight**, into the bracket until it fully seats. (Figure 4-5)



Figure 4-4



Figure 4-5

6. Install the inside pulley, first applying a light coat of Green Loctite (provided in Hardcharger Kit) to the bevel of the pulley and bevel of the shaft. (Figure 4-6)
7. Install pulley and seat by tapping with a dead blow hammer. (Figure 4-7)



Figure 4-6



Figure 4-7

8. Using 1 hardened bolt 3/8-16 x 3/4" and flat thrust washer- in the Hardcharger hardware kit- apply red loctite to the threads. And install bolt/washer.
9. Using a wrench to hold the pulley, torque the pulley bolt to 30 ft/lbs.

Starting with 'Procharger Install' step 1, continue through the instructions in your ProCharger manual. **SEE NOTE BELOW**

***NOTE-** There is an optional procedure at this point. You can skip ahead to instruction 'ProCharger Install step #12 thru 16, install the ProCharger unit onto the bracket and perform the belt installation/tensioning process for the inside belt. This makes accessing and performing the installation of belt and its tensioning easier to perform. After completed, Continue with steps 1-11 of 'Procharger Install' and then continue to 'Footboard and Shifter Lever and Stand' and complete the rest of the instructions in your ProCharger manual.

***NOTE-** Installing the inner belt may require removal of the tensioner pulley.

5. When you get to step 6 of 'Procharger Install' stop. The belt cover may require modification to work with the new intermediate pulley shaft you just installed. There is a difference between early Prochargers and newly produced Prochargers. If there is an additional 'step' in the cover, no modifications need to be made. Continue with the installation instructions. (Figure 5-1 and Figure 5-2)

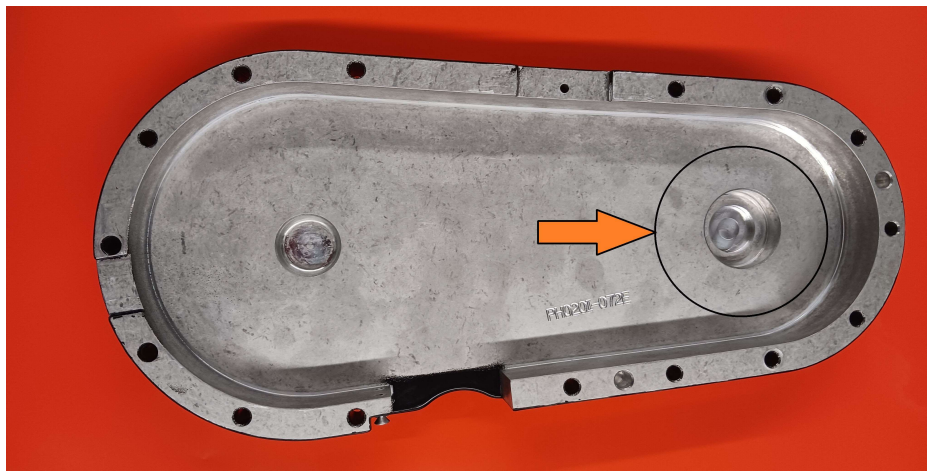


Figure 5-1



Figure 5-2 (Detail of 5-1)

6. If there is not a 'step', the cover will require you to drill or machine a hole in the center of the bearing cup and to drill 4 holes on the outer perimeter to accept the cover and screws provided in the kit. Follow the instruction that follow. (Figure 6)

You will need-

- Drill bit, 11/64" for pilot holes
- Drill bit, 21/64" to countersink heads
- Drill bit, 1" center drill cover
- Aluminum cover cap
- 4- Screw, Flathead Cap #8-32x1/2



Figure 6

7. Use the template provided in your HARD-CHARGER Kit to mark the hole with a center punch or other suitable instrument.

8. Drill out the 4 pilot holes and the center hole with the 11/64". ****Center hole only****- Drill out using the 1" drill bit. (Figure 8)

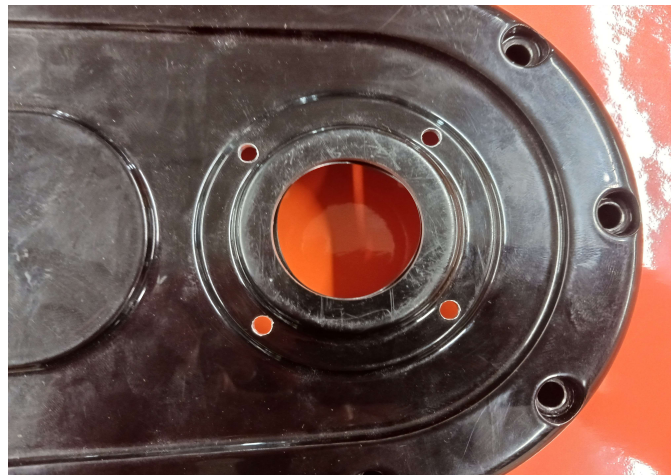


Figure 8

***Note-** if your cover is painted- be careful when drilling through- may chip paint. Small chips will most likely be covered by the aluminum cap, large chips may not.

- 9.** On the inside of cover- use the 21/64” bit to counter sink the screw heads flush- **DO NOT DRILL ALL THE WAY THROUGH WITH THIS BIT!!! ONLY GO AS DEEP AS NECESSARY TO FLUSH SCREW HEADS.** (Figure 9)



Figure 9

- 10.** Install cap with the 4 screws, apply blue loctite to the screws before installing, through the belt cover and into the cap. (Figure 10)

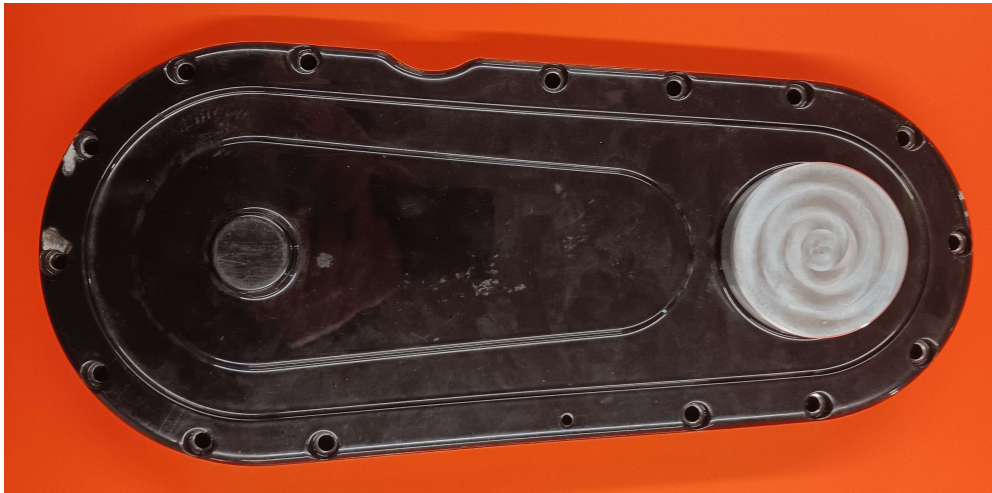


Figure 10

- 11.** Complete the installation following where you left off in the 'Procharger Install' section of your Procharger installation instructions.



Questions about the installation of this Hard-Charger Kit may be directed to the email and phone number listed below. If you need a copy of the ProCharger Installation manual, please send us an email with 'M8 ProCharger Installation Guide Request' in subject line. Hard-Charger kit # HCPEKM8- M8 2017-23 Procharger for Harley-Davidson. A PDF copy of these instructions is available for download on our website under the support tab.

Hours- Monday thru Friday
9:00 am - 5:00 pm CST

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