

Shim. to Campy / F282SB to F382SB

Also for
F282CB to F382CB



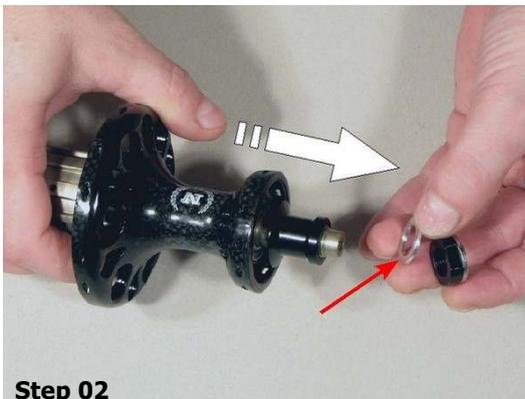
Tools:

1pc of Wrench Key 17mm
1pc of Allen Key 5mm



Step 01

Insert allen key to axle & unscrew left side cap by wrench key by anticlockwise direction.



Step 02

Remove all three parts of side cap.
Middle part of side cap is Washer 199 which is using only for Shim. type!!!
Remember position of Washer 199 well.



Step 03

Remove axle with cass.body from hub shell.



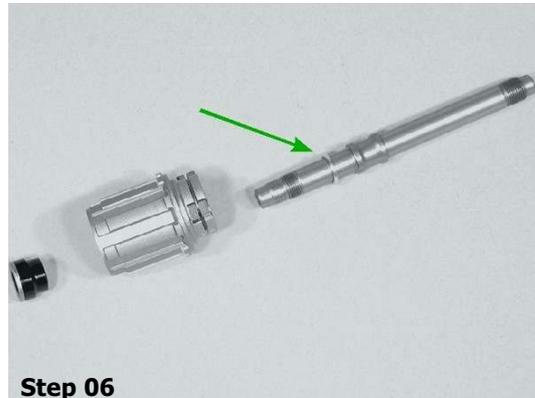
Step 04

Insert allen key into axle and hold it. Unscrew side cap by wrench key by anticlockwise direction.



Step 05

Washer 197 is mostly hidden in cassbody.



Step 06

Take a part axle & cassbody.

Remember position of Washer 197 !!!

This position of Washer 197 is only for Shim. !!!



Step 07

Position of **Washer 199** & **Washer 197**.

This position is using only for Shim. type !!!

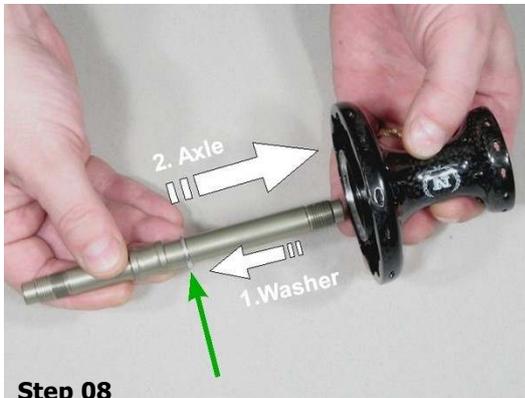
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Step 07

Check well position of **2pcs Washer 197** for Campy type !!!



Step 08

Insert Washer 197 into the axle & place the axle into the hub shell.

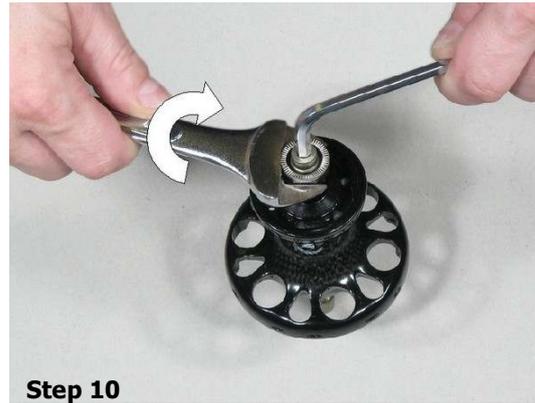
Be sure with correct position of Washer 197.



Step 09

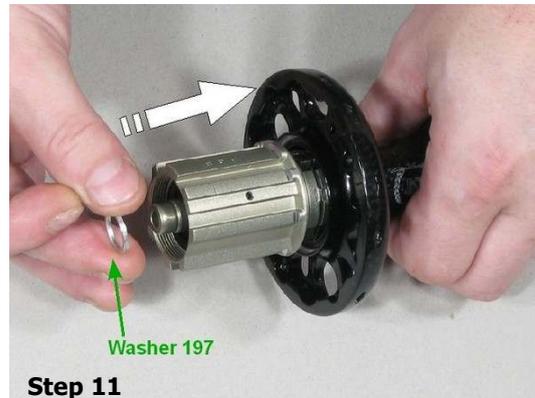
Insert two parts of side cap into axle & screw it in by hand.

There is no washer between two parts of side cap in Campy type !!!



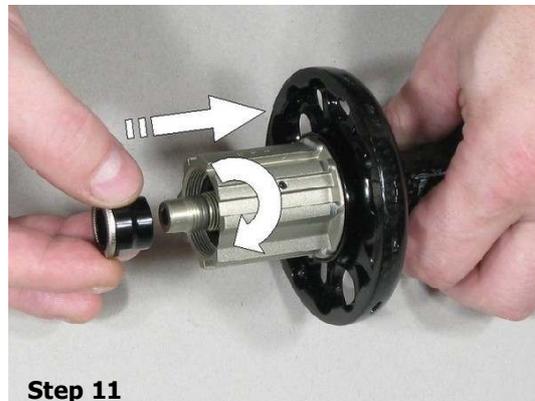
Step 10

Insert allen key to axle & hold it. Tight side cap by wrench key by clockwise direction.



Step 11

Insert into axle cass.body & then insert **Washer 197**. **This position of Washer 197 is only for Campy !!!**



Step 11

Insert side cap into axle & screw it in by clockwise direction.



Step 12

Insert allen key into axle & hold it. Tight side cap by wrench key by clockwise direction.