HUDY

FOR
.12 & .21
ENGINES

ULTIMATE ENGINE TOOL KIT

BEARING PULLER & PRESSER

HUDY Engine Bearings Tools

The HUDY Ultimate Engine Tool Kit (bearing puller and presser) was developed for serious nitro racers that want to perform additional maintenance on their nitro engines. The set consists of one tool for pressing out the front engine bearing and compressing both front & rear engine bearings, and another tool for pressing out the rear engine bearing. With these tools you can very quickly & easily remove and press back both front and rear engine bearings.

There are two separate sets available: one set for 0.12ci engines and another set for 0.21ci engines with 14mm I.D. rear bearing. Racers using both 0.12ci and 0.21ci engines may purchase collets and presser adapters separately. Collet #107063 is used for engines with a 13mm I.D. rear bearing; please check the bearing inner diameter to determine if that particular collet is necessary for your engine.

It is very important to closely follow manual steps how to remove and insert the engine bearings. The manual provides all the important information in order to change the bearings correctly.

Some engine manufacture companies do not allow to open the engine by the customer otherwise engine warranty finish. Therefore, we recommend to check with engine manufacturer if the engine can be opened and serviced or not. HUDY does not take any risk connected to defect, or any other engine problems caused by wrong servicing.

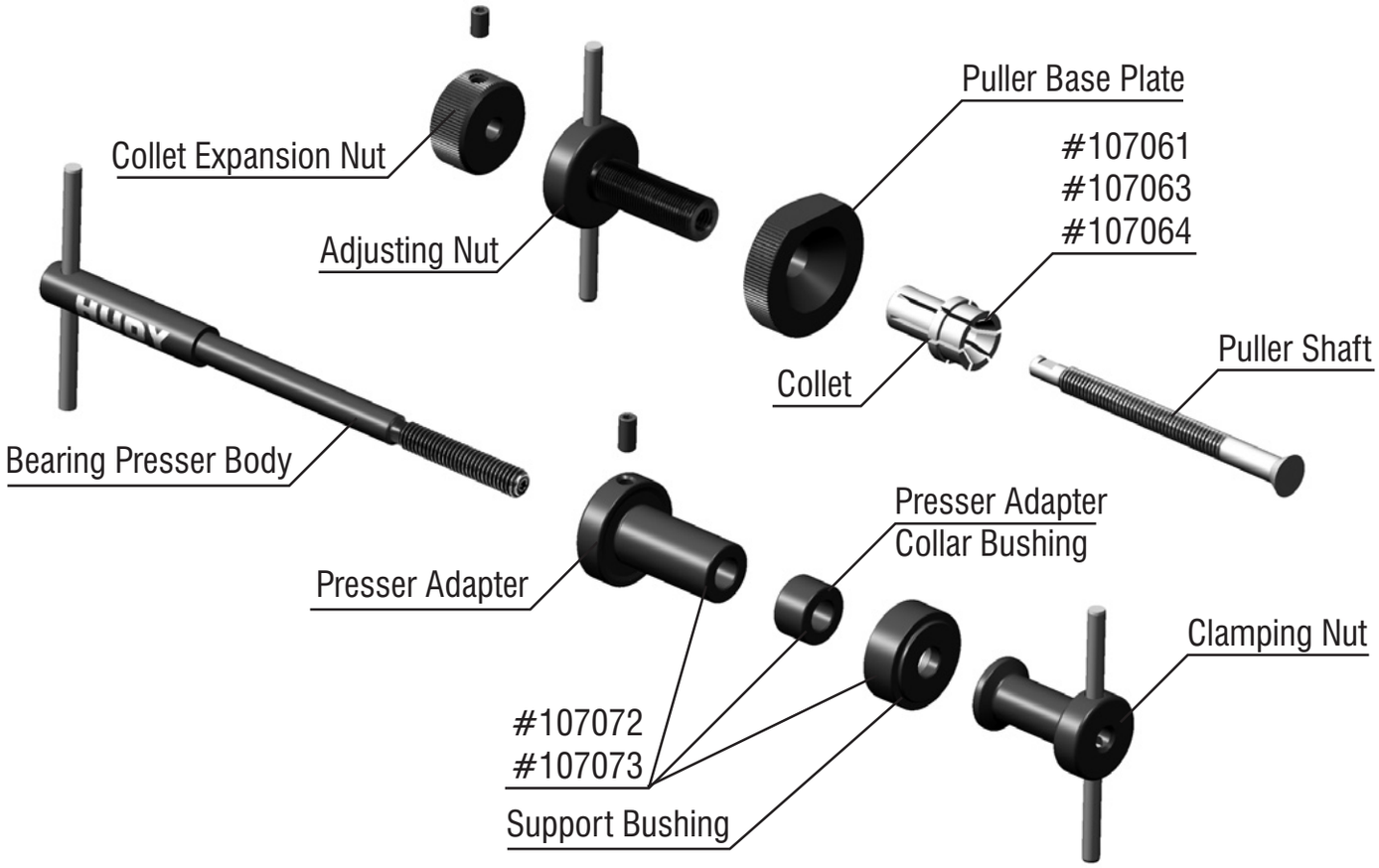
WARNING

Using handtools can be dangerous. Always take care, and keep away from children. Wear protective eyewear and gloves in work area at all times. Select correct type and size of handtool for work. Improper operations may cause personal and/or property damage. HUDY and its distributors have no control over the damage resulting from shipping or improper usage. HUDY assumes and accepts no responsibility for personal and/or property damages from the use of this product. By the act of using this product, the user accepts all resulting liability. If the buyer is not prepared to accept this liability, then he/she should return this product in a new and unused condition to the place of purchase. All specifications are subject to change without prior notice.

Hudy engine bearing tools set is available for either .12 engines or .21 engines

#107051
HUDY bearing puller & presser for .21 engine

#107050
HUDY bearing puller & presser for .12 engine



If you need a tool for use with both 0.12 and 0.21 engines, HUDY offers separate collets and presser adapters to make the bearing tool universal.

Adapters and collets for different engines are available separately as well:

#107061	- collet for **.12 engines** with **11.5mm** I.D. rear bearing
#107063	- collet for **.21 engines** with **13mm** I.D. rear bearing
#107064	- collet for **.21 engines** with **14mm** I.D. rear bearing
#107072	- presser adapter for **.12 engines**
#107073	- presser adapter for **.21 engines**

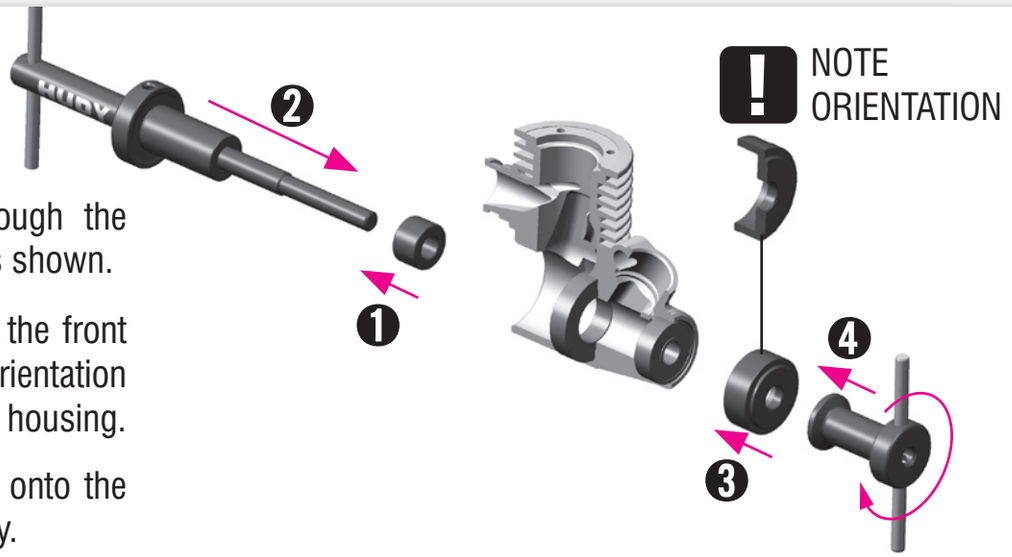
REMOVING THE FRONT BEARING

❶ Assemble the main tool body by sliding the presser adapter and collar bushing onto the presser body shaft. Make sure to use the correct collar bushing; the collar bushing should pass through the rear bushing and rest against the inner edge of the front bearing. Secure the presser adapter onto the presser body by tightening the setscrew.

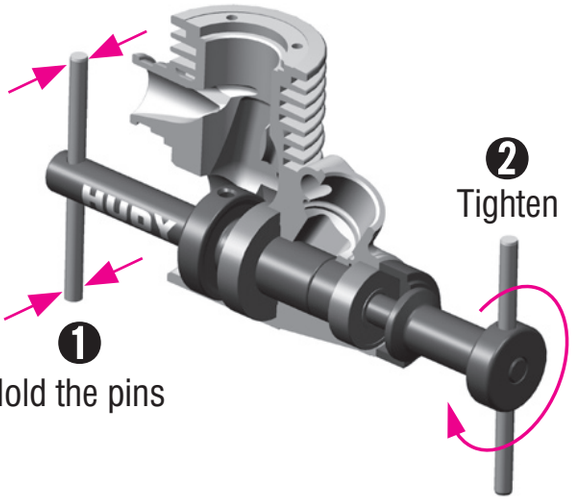
Slide the main tool body through the engine bearings from the rear as shown.

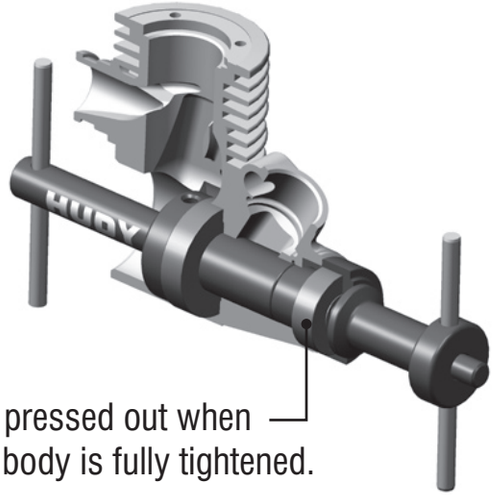
Slide the support bushing onto the front of the tool, noting the proper orientation with the cavity facing the engine housing.

Finally, screw the clamping nut onto the threaded end of the presser body.



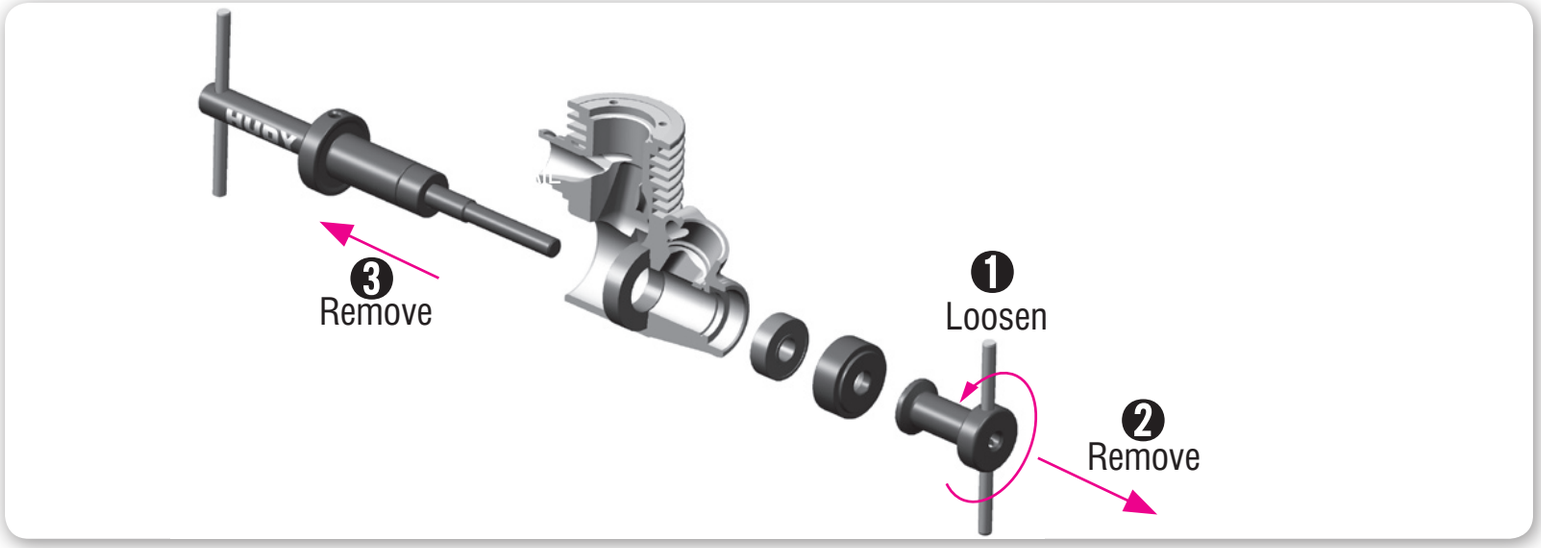
❷ By tightening the clamping nut, the front bearing will be pressed out of the engine case and into the cavity of the support bushing. Sure to hold the bearing presser body while tightening the clamping nut. When the clamping nut cannot be tightened any more, the front bearing has been pressed out from the engine.





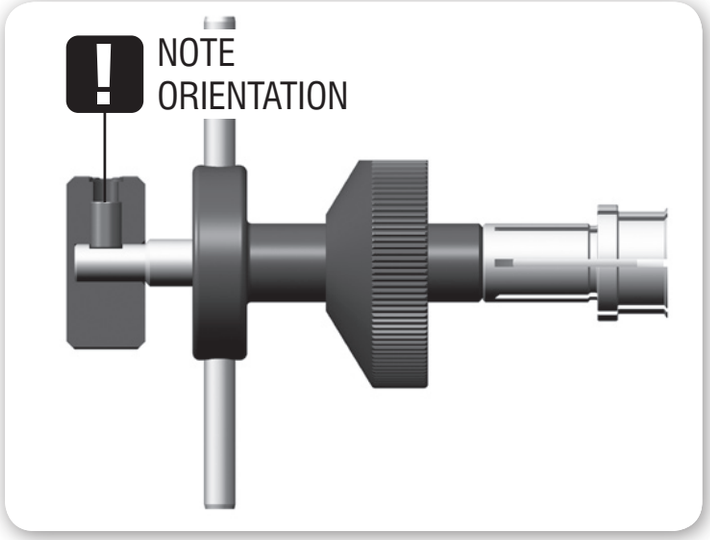
The front bearing is pressed out when the bearing presser body is fully tightened.

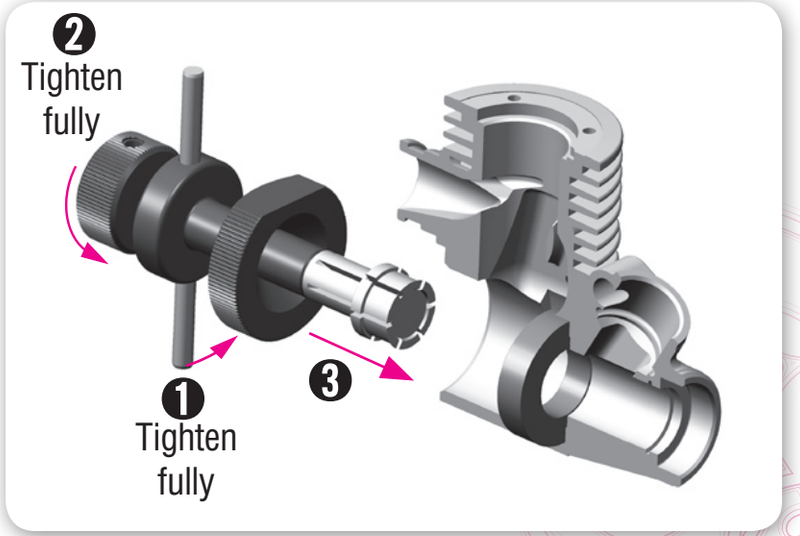
❸ Unscrew the clamping nut from the bearing presser body and remove tool pieces from the engine. Remove the front bearing from the support bushing.



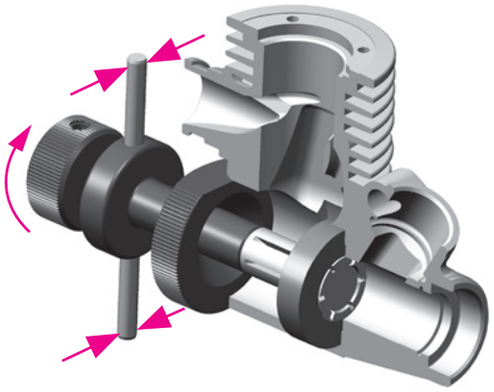
REMOVING THE REAR BEARING

❶ Assemble the rear bearing removal tool according to the exploded view. Note that you must tighten the setscrew onto the flat spot of the puller shaft. Be sure to use the correct collet to match the rear bearing in your engine. After you have assembled the tool, insert it into the engine as shown.

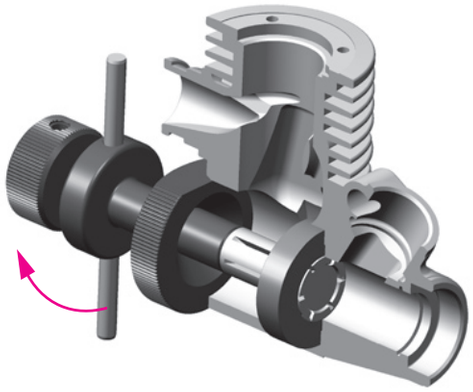




❶ Retreat the collet expansion nut to capture the rear bearing, and then tighten the adjusting nut to pull the rear bearing out of the engine housing.

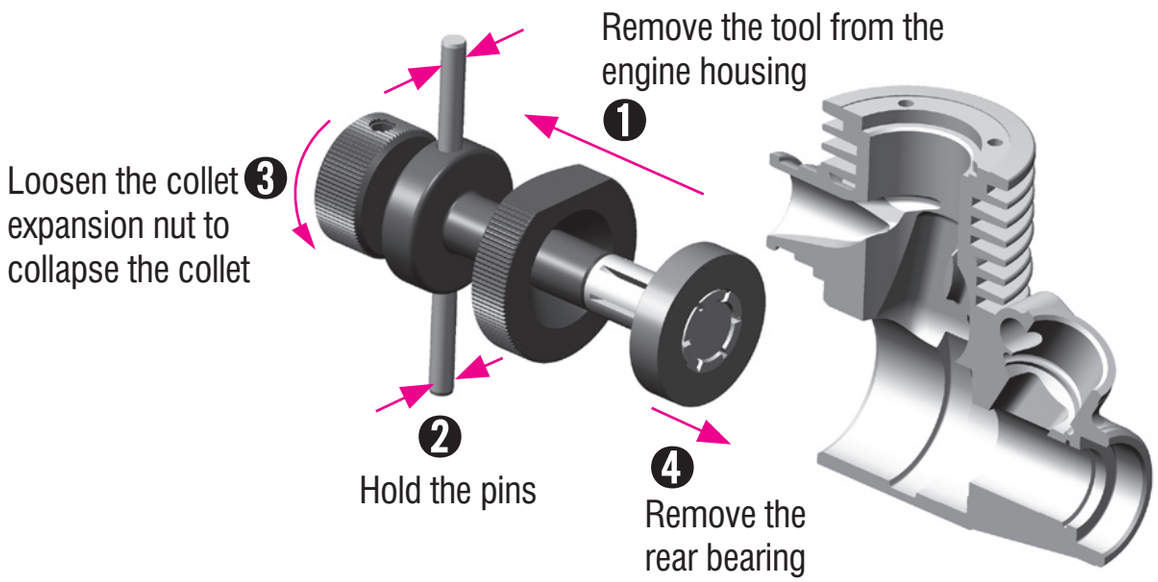


Hold the pins of the adjusting nut, and then retreat the collet expansion nut to expand the collet in the rear bearing.



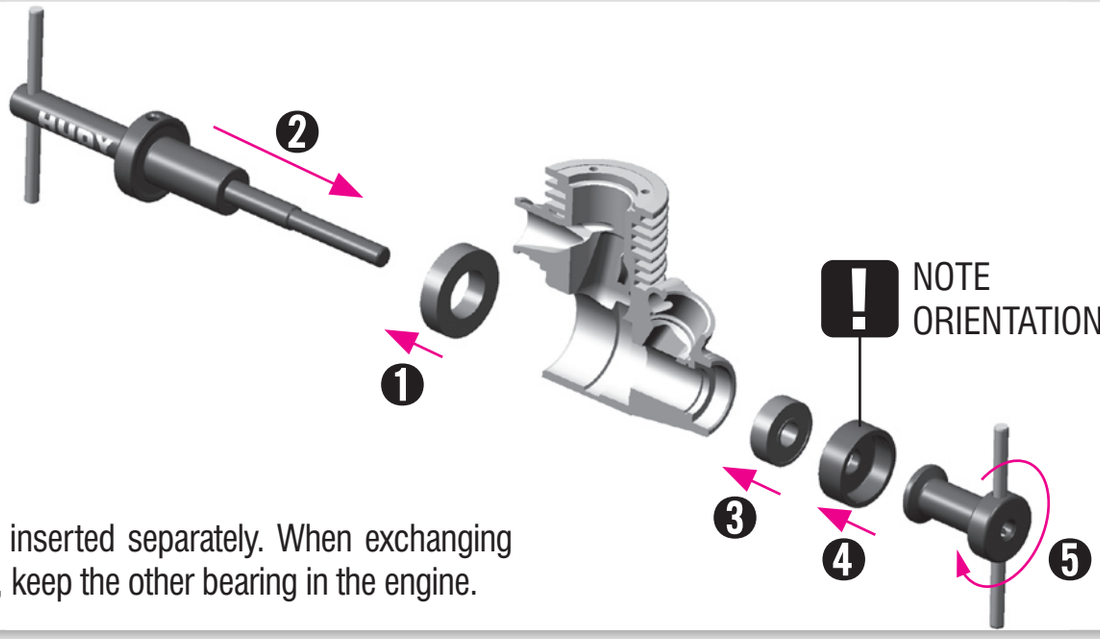
Continue retreating the adjusting nut to pull out the rear bearing.

❷ Pull out the tool; the rear bearing stays on the expanded collet and is removed when you remove the tool.



INSTALLING FRONT & REAR BEARINGS

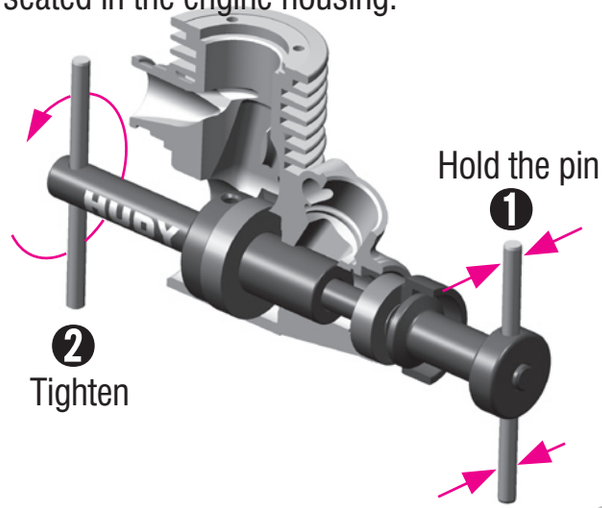
❶ Use the front bearing tool to install both front and rear bearings. Note the orientation of the support bushing. When installing the bearings you MUST turn around the support bushing so the cavity is facing AWAY from the engine. Insert the rear bearing on bearing presser body and place the front bearing on the edge of the engine housing.



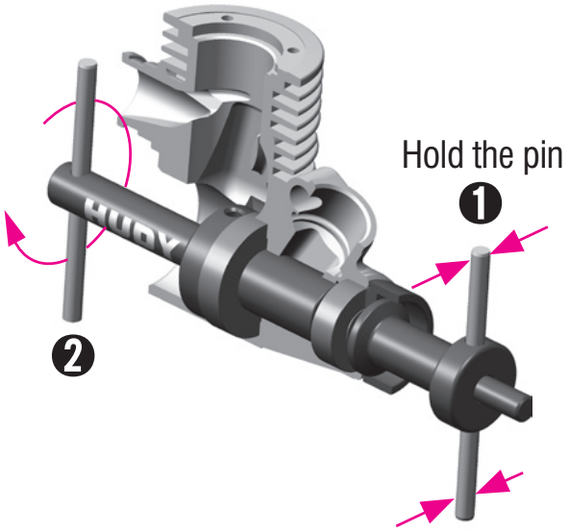
NOTE

Bearings can be inserted separately. When exchanging only one bearing, keep the other bearing in the engine.

❷ Hold the pins of the clamping nut, and then tighten the tool shaft. Press in the bearings until both are fully seated in the engine housing.



❸ When both bearings are fully seated, loosen the tool and then remove it.

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