



CVJ – ENG/04 – 01/2020



WHEEL SIDE JOINT DISASSEMBLY / ASSEMBLY

Step by step for dismounting and mounting the wheel side joint

❖ 1st step : disassembly

1

Dismounting of tightening components : small and big clamp

Use a cutting tool or a hacksaw to open the clamps



Chisel or flat screwdriver



Hacksaw

2

The boot removing can be done either before or after the dismounting of the joint



3

Joint / Shaft removal : extraction by shocks.

The tool used is an extractor by inertia.

The hammering back and forth effect allows the snap ring removing.



4 Remove the snap ring from the stem using a screwdriver



❖ *2nd step : the reassembly*



- NTN-SNR outboard joint kit :
- the joint (metallic part)
 - the boot
 - the grease tube or plastic bag
 - other small components : small and big clamps, snap ring, spring...

1 Setting up on the shaft : boot/clamp/snap ring



Safety ring set up on the shaft

2 Grease filling : 50% on the joint and 50% on the boot



Half quantity in the joint



Half quantity in the boot

3 Use specific pliers to insert the snap ring on the stem

- The internal \varnothing (d) of the 2 half spheres should match to the external \varnothing of the shaft.
- Target : Keep the pliers around the snap ring before fitting



To do that, use the specific pliers to insert the safety ring on the shaft's groove. See picture



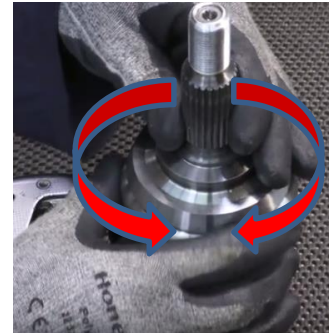
4 Setting up of the joint in 3 phases

Phase 1

- Keep the pliers tight and the snap ring into the shaft's groove
- Start to position the shaft to fit on the joint



- Make an alternated rotating movement in order to match male and female splines



Phase 2

- Keep the pliers tight and use a hammer and a protection (for stem of the joint) to fit the shaft on the joint.
- Now the snap ring should be in place on the splines of the stem.



Note : Using a protection between the hammer and the joint will avoid damages on the product.

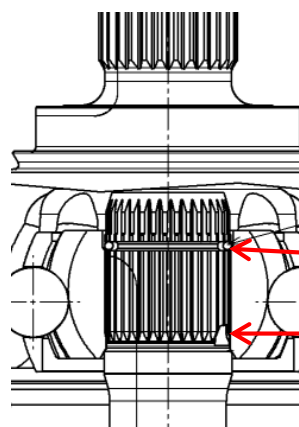
Phase 3

- Remove the pliers to finish the fitting

The snap ring has to be engaged on the shaft's groove and on the joint's groove to ensure an axial holding of the joint.



Pliers kit HAZET n° 1847-12/15

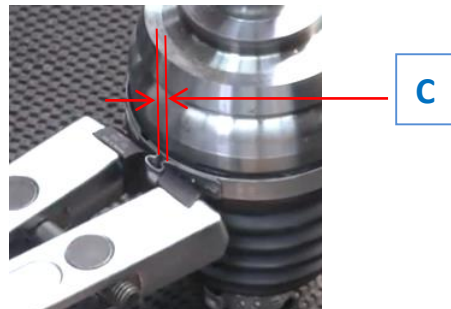
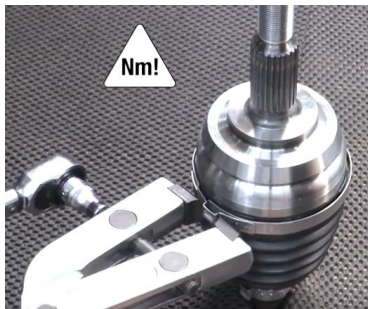


Snap ring set up

Fit on a chamfers

5 Clamp tightening

Big clamp Ø



Small clamp Ø

Be careful – before to put and tight the small clamp clear out the air into the boot with a screwdriver



The air clear out of the boot
avoid a depression or an
overpressure in the boot



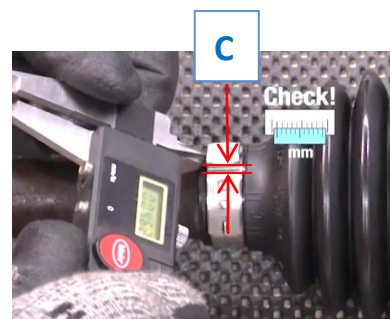
Insert the small clamp



Then tight the clamp with pliers
according to torque
recommendation

Respect the tightening recommendation on the TECHINFO n° CVJ/ENG/02-05/2019

Recommendation : 1.2mm < **C** < 4mm



Find the video about **the dismantling and mounting of the wheel side joint** on our
Youtube channel or click on the link as below



<https://www.youtube.com/watch?v=cRhQpgrv80U>