TECO TECH

Instruction for checking correct ratchet coupling on wheel locking handle

N. 3 28/08/2025

CAR TYRE CHANGER EQUIPPED WITH PNEUMATICALLY OPERATED AUTOMATIC WHEEL LOCKING

Introduction

The purpose of this instruction is to describe the steps to be followed to **verify the correct coupling of the ratchet on the** pneumatically operated **wheel locking handle**.

The instruction is valid for all TECO machines equipped with a wheel centring device with pneumatic locking.

Parts involved:

wheel centring device with pneumatic locking

Ratchet

Handle

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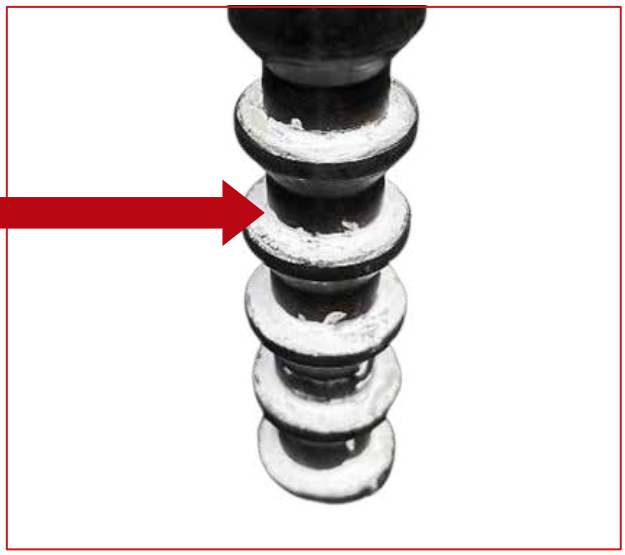
Step description

1. Cover the surface of the handle teeth with correction fluid, chalk or dye, creating a minimum of thickness. We suggest using correction fluid.

   Example:



2. Equip the machine with a rim, preferably an alloy rim, or a shim (for example inverted steel cone) simulating the rim.

3. Insert the handle into the wheel centring device and **lock** the wheel/shim.

4. Wait a few moments, then **unlock** and remove the Handle.

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5. Use a gauge to measure the depth, in radial direction, of the sign left on the tooth by the ratchet.

6. Repeat the test at least three times at different locking heights (with different rims or shims) to try and engage the handle in different positions (teeth).

Results

Sign depth	Outcome
≥ 3 mm	✔
< 3 mm	✖

- If depth is greater than or equal to 3 mm → ✔
- If the depth is less than 3 mm → ✖
- If the engagement depth is less than 3 mm, proceed as follows:
  a. Replace the handle with a new one;
  b. Replace the ratchet with a new one;
  c. Repeat steps 1 to 6 above:
    i. If **it is greater than or equal to 3 mm** → ✔
    ii. If **it is less than 3 mm** → **Replace entire pneumatic wheel centring device.**

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