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INSTRUCTION SHEET SQUARING THE FRONT CASTER HOUSINGS

This document describes how to square up the housings of all models of front caster.

The front wheel caster housings must be adjusted when:

- The center of gravity of the chair is moved
- The front or rear seat height is changed
- In some cases when the rear wheels camber is modified

See also the following document:

• Replace Eccentric Inserts on Multi-position Anti-flutter Caster Housing (MC-MTKG-WI-0007)

Wheelchair model(s)

• All models

Tool(s) and materials required

- Hexagonal keys (Allen keys): 3 mm, 4 mm and 5 mm
- Medium strength threadlocker adhesive (Blue Loctite)
- Triangular squaring gauge
- Angle gauge (physical device or smartphone application)

SQUARING THE FRONT CASTER HOUSINGS WITH A CLAMP SYSTEM

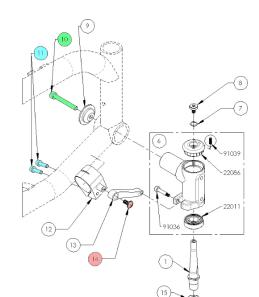
Models: HELIO C2/A7/KIDS

 This system allows for precise adjustment of the front caster housings squareness within their adjustment ranges.

STEP 1:

- Place the chair on a level, straight work surface.
- On **both sides**, loosen:
 - The two screws (#11, 4 mm hex key) of the clamp (#12). The screw heads are towards the inside of the chair
 - The screw (#10, 5mm hex key) in the center of the caster housing pivot. The screw head is towards the inside of the chair
 - The caster housing (#6) should **rotate freely**, and the bushing (#12) should **slide along** the **frame tube**
 - The pivot screw that holds the connecting rod should allow does not need to be loosened.









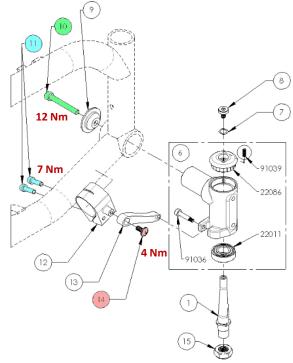
STEP 2:

• Using a **triangular squaring gauge**, position the two front caster housings **perpendicular to the ground**

STEP 3:

- While making sure the caster housing remains perpendicular to the ground, tighten the 4 screws (2 x #11, #10 and #14) of both front caster housing
 - Apply medium strength threadlocker adhesive (blue Loctite) to the end threads of all screws
 - Apply the standard tightening torque values according to the size of the hexagonal key:
 - 3 mm hexagonal key: 4 Nm
 - 4 mm hexagonal key: 7 Nm
 - 5 mm hexagonal key: 12 Nm







SQUARING THE FRONT CASTER WITH A BUBBLE LEVEL SYSTEM

Models: VELOCE - APEX A/C/P

• This system allows precise adjustment of the front caster squareness within its adjustment range.

STEP 1:

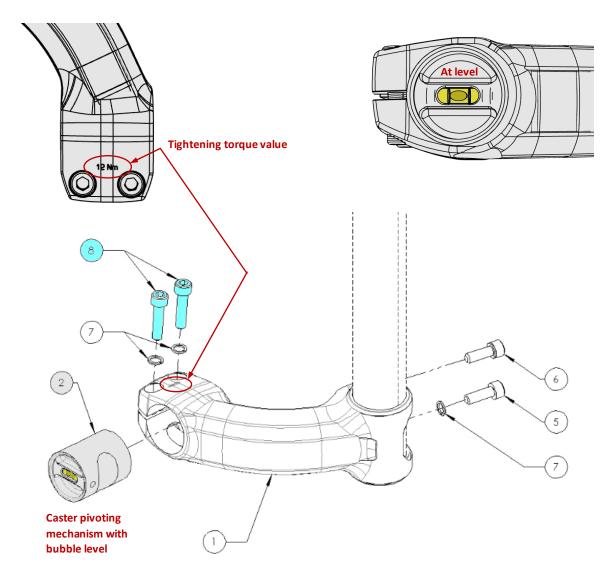
- Place the chair on a straight and level work surface
- Loosen the two (2) screws (#8, 5 mm hex key) of the caster mount pivoting mechanism.

STEP 2:

- Use the **built-in bubble level to** square the front caster (#2) with the ground by moving the fork forward or backward.
- The **bubble** should be **in the center of** the **two middle lines** (illustration on the right).

STEP 3:

- Tighten the two screws.
 - Apply medium strength threadlocker adhesive (blue Loctite) to the end threads of all screws
- Apply a tightening torque of 12 Nm as shown on the caster mount (illustration on the left).





SQUARING FRONT CASTER WITH A MULTI-POSITION INSERT SYSTEM

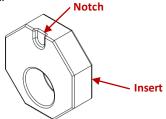
- Models: HELIO A6 MOVE
- This system allows an adjustment of the front caster housing on **7 positions.**

STEP 1:

- Place the chair on a level, straight work surface.
- Loosen the bolts (#1) on one of the front caster housing (#2) until the ECCENTRIC WASHERS (#3) are free to move.
- Place roll of tape on opposite side to suspend the side you're working on.

STEP 2:

- Refer to the adjustment angle chart on the next page to select the angle that will best align the caster housing as close to 90 degrees from the floor in relation to the desired seat slope.
- The **notches** on the top and bottom (#3) serve as **markers** to place the caster housing (#2) at the desired angle.

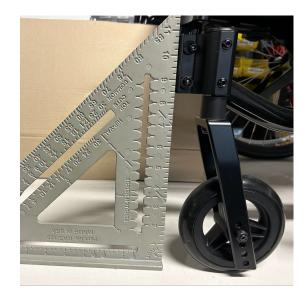


STEP 3:

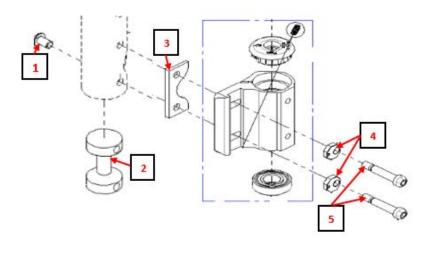
- Apply medium strenght thread locker (blue Loctite) at end of the threads of the screw.
- Retighten the bolts (#1) and apply torque: -7 Nm for 4mm screws
 - -12 Nm for 5mm screws
- Check the angle with a level on the caster housing.

STEP 4:

• Repeat the operation for the other caster housing.



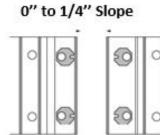


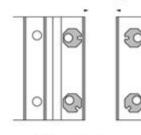


- Screw #4426
 Caster housing plug #22081
 Spacer #22082
- 4 : Insert #22080
- 5 : Screw #4427

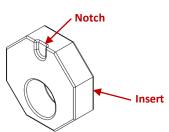
- The angle ranges shown are seat angles or seat slopes.
 - Choose the desired **nearest inserts** configuration according to the seat angle.
 - The notch is the mark to position the insert correctly.
- To know the position of the inserts, measure the front and the rear floor-seat heights and the différence between the two gives the position of the inserts.

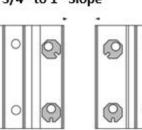
1/2" to 3/4" Slope



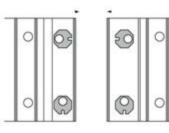


3/4" to 1" Slope





1 ¼" to 1 ½" Slope



1 ½" to 1 ¾" Slope

