643 - ALFA 4C 1750 Turbo Benzina FRONT WHEEL GEOMETRY - CHECK USING OPTICAL EQUIPMENT - INCLUDES ADJUSTMENT IF NECESSARY 4450A10

⊞ Detail ⊟ Detail

This check procedure must be carried out after each operation on the mechanical components of the front suspension since it defines the position of the wheels in relation to the body (e.g.: wishbones, struts, shock absorbers, springs etc.).

The wheel geometry/angle checks must be carried out using appropriate optical equipment after checking and adjusting tyre inflation pressure to the prescribed values and ensuring that the car complies with one of the following load conditions:

- Standard 0 - vehicle unladen including spare wheel, tools, accessories and consumables with 5 litres of fuel

- “Standard A” - vehicle unladen including spare wheel, tools, accessories and consumables (full tank of fuel).

Geometry check

- Check that the geometry of the front wheels is within prescribed values; to measure the geometry, check the distance from the ground to the maximum point of curvature on the front wing (protrusion).

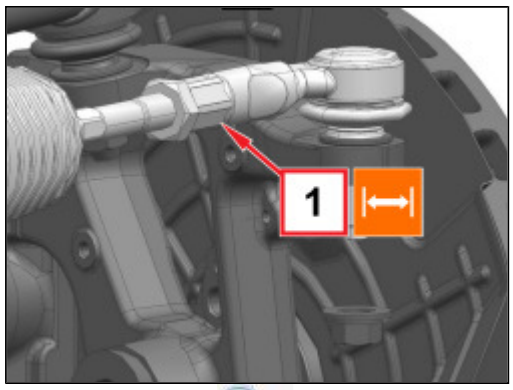
Size	Value	Validity
Assetto anteriore - Cerchi in lega: anteriori 17” / posteriori 18” (mm)	672 (Standard 0)	1750 Turbo Benzina
Size	Value	Validity
Assetto anteriore - Cerchi in lega: anteriori 17” / posteriori 18” (mm)	667 (Standard A)	1750 Turbo Benzina
Size	Value	Validity
Assetto anteriore - Cerchi in lega: anteriori 18” / posteriori 19” (mm)	669 (Standard 0)	1750 Turbo Benzina
Size	Value	Validity
Assetto anteriore - Cerchi in lega: anteriori 18” / posteriori 19” (mm)	663 (Standard A)	1750 Turbo Benzina

Front half toe in check

- Check that the front wheel half toe-in is within required limits.

Size	Value	Validity
Semiconvergenza ruote anteriori	-0°4’ (Standard 0) ± 0° 4’	1750 Turbo Benzina
Size	Value	Validity
Semiconvergenza ruote anteriori	-0°5’ (Standard A) ± 0° 4’	1750 Turbo Benzina

1. Adjust the steering rod nut in order to comply with the prescribed limits.



Size	Value	Validity
Semiconvergenza ruote anteriori	-0°4’ (Standard 0) ± 0° 4’	1750 Turbo Benzina

Size	Value	Validity
Semiconvergenza ruote anteriori	-0°5’ (Standard A) ± 0° 4’	1750 Turbo Benzina

- After adjusting, tighten the steering rod fixing nut.

Component	Fixing	dia	Value (daNm)	Validity
Steering rod (adjustment)	Nut	M14x1.5	4.5 ÷ 5.5	1750 Turbo Petrol

Camber check

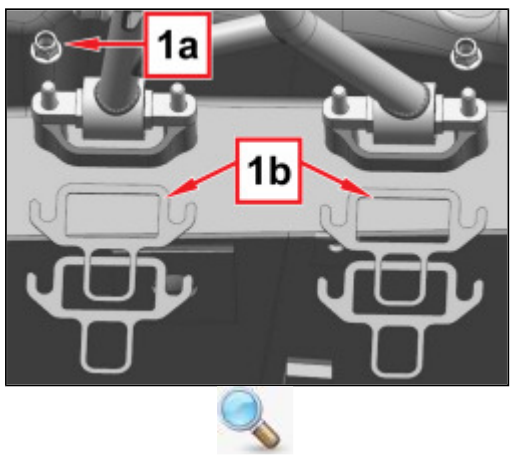
- Check that the front wheel camber is within the prescribed limits.

Size	Value	Validity
Campanatura ruote anteriori	-0°44’ (Standard 0) ± 0° 10’	1750 Turbo Benzina

Size	Value	Validity
Campanatura ruote anteriori	-0°45’ (Standard A) ± 0° 10’	1750 Turbo Benzina

Size	Value	Validity
Campanatura ruote anteriori	-0° 59’ (Standard 0) ± 0° 10’	1750 Turbo Benzina Launch Edition

Size	Value	Validity
Campanatura ruote anteriori	-1°’ (Standard A) ± 0° 10’	1750 Turbo Benzina Launch Edition



1. In order to comply with the prescribed limits, loosen the fixing nuts (1a) for the lower wishbones and remove or insert the adjustment plates (1b).

Size	Value	Validity
Campanatura ruote anteriori	-0°44’ (Standard 0) ± 0° 10’	1750 Turbo Benzina

Size	Value	Validity
Campanatura ruote anteriori	-0°45’ (Standard A) ± 0° 10’	1750 Turbo Benzina

Size	Value	Validity

Campanatura ruote anteriori	-0° 59’ (Standard 0) ± 0° 10’	1750 Turbo Benzina Launch Edition
Size	Value	Validity
Campanatura ruote anteriori	-1°’ (Standard A) ± 0° 10’	1750 Turbo Benzina Launch Edition

- After adjustment, tighten the fixing nuts, with a pre-torque of 2.0 dNm.

- Complete the tightening of the lower wishbone fixing nuts to the prescribed torque.

Component	Fixing	Ø	Value (daNm)	Validity
Lower wishbone (to body)	Nut	M10x1.5	5.2 ÷ 5.8 + 45°	1750 Turbo Petrol

After front wheel camber adjustment, the difference in angle between the left and right wheel must be ±15'.

1. After camber and/or half toe-in adjustment, apply DINITROL 4010 (part number 71749812) waxy substance, or similar product, in the attachment area of the upper wishbones (1a), lower wishbones (1b) and fastening bracket for the spring/shock absorber unit (1c).