



CASTER ANGLE AND KINEMATIC TRAIL

Problem

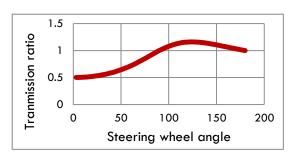
Too much effort to turn the steering wheel

Cause analysis

Wrong caster angle and kinematic trail

	Design goal	Measured on left wheel	Measured on right wheel
Caster Angle (°)	5.75	6.5	7.5
Kinematic trail (mm)	19	30	35

Non constant velocity column system



Solution

New lower wishbones

- Caster angle : 3.1°

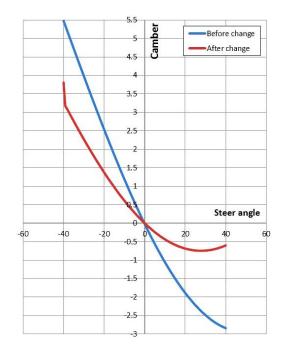
- Kinematic trail: 14mm

New steering column kinematic

Tests

Lower effort necessary to drive

Stable direction



IMPACT ON CAMBER CHANGE WHEN STEERING