

319 - Nuova Panda 1.3 Multijet REAR WHEEL GEOMETRY - CHECK USING OPTICAL EQUIPMENT, INCLUDES ADJUSTMENT IF NECESSARY 4450A40

- This check procedure must be carried out after each operation on the front suspension mechanical components since its purpose is to define the position of the wheels in relation to the body (e.g.: wishbones, steering knuckles, shock absorbers, springs etc.).

 Detail  Detail

PROCEDURE

General information

- Wheel geometry/angle checks must be carried out using appropriate optical equipment after checking and adjusting tyre inflation pressure to 3.0 ± 0.3 bar and ensuring that the vehicle complies with one of the following load conditions:
- “Standard 0” - vehicle unladen including spare wheel, tools, accessories, with 5 litres of fuel;
- “Standard A” - vehicle unladen including spare wheel, tools, accessories and consumables (full tank of fuel).
- At the end of the wheel geometry operation, bring the pressure value to the on-road values in accordance with the table below:

Tyres	No load/medium load		Full load		Space-saver wheel (*)
	Front	Rear	Front	Rear	
165/65 R14 79T (*)	2.5	2.2	2.7	2.4	2.8
165/70 R14 81T(*)	2.3	2.0	2.5	2.2	2.8
175/65 R14 82T	2.2	2.0	2.5	2.5	2.8
185/55 R15 82T	2.2	2.0	2.5	2.5	2.8
175/65 R15 84T M+S (4WD)	2.2	2.1	2.5	2.5	2.8

175/65 R15 84T (4WD)	2.2	2.1	2.5	2.5	2.8
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(*) For versions/markets, where provided

CHECKING AND ADJUSTING REAR SUSPENSION GEOMETRY/ANGLES

Geometry check



- Before checking the rear wheel geometry, ensure that the ground clearance "A" indicated in the figure is within the prescribed value.

Engine type	Equipment	Tyres	Standard 0	Standard A
0.9 TwinAir 64 HP	One	175/65-14	355	346
	One	185/55-15	359	352
	One F.O. 5d	175/65-14	349	340
	One F.O. 5d	185/55-15	354	347
0.9 TwinAir 85 HP	Easy	175/65-14	356	347
	Easy F.O. 5d	175/65-14	349	340
	Easy F.O. 5d	185/55-15	354	347
	MTA Easy	175/65-14	355	347
	MTA Easy F.O.	175/65-14	348	339
	MTA Easy F.O.	185/55-15	353	346

	Climbing	175/65-15 (4WD)	409	400
	Climbing	175/65-15 (4WD) Full Opt. 4 doors	397	388
	Climbing	175/65-15 (4WD) Full Opt. 5 doors	403	395
0.9 Natural Power	Easy	175/65-15	409	399
	Easy	175/65-15 Full Opt. 4 doors	402	391
	Easy	175/65-15 Full Opt. 5 doors	408	397
	Trekking	175/65-15	407	397
	Trekking	175/65-15 Full Opt. 4 doors	406	395
	Trekking	175/65-15 Full Opt. 5 doors	401	390
1.2 LPG	Easy	175/65-14	346	337
	Easy F.O. 5d	175/65-14	345	336
	Easy F.O. 5d	185/55-15	350	343

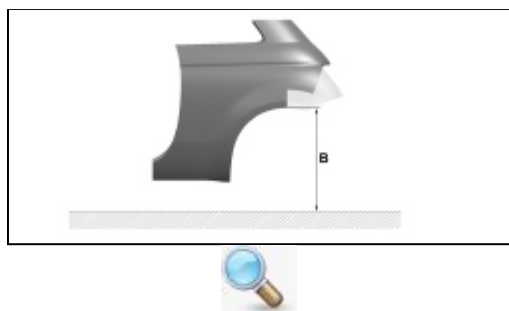
1.2 69 HP	One	175/65-14	356	348
	One	185/55-15	360	353
	One F.O. 5d	175/65-14	350	341
	One F.O. 5d	185/55-15	356	348
	Easy	175/65-14	356	348
	Easy	185/55-15	360	353
	Easy F.O. 5d	175/65-14	349	340
	Easy F.O. 5d	185/55-15	354	347
1.3 MultiJet 75 HP	One	175/65-14	354	344
	One	185/55-15	358	350
	One F.O. 5d	175/65-14	348	338
	One F.O. 5d	185/55-15	353	345
	Climbing	175/65-15 (4WD)	408	399
	Climbing	175/65-15 (4WD) Full Opt. 4 doors	396	387
	Climbing	175/65-15 (4WD) Full Opt. 5 doors	403	393



"A" - height from the ground of the head of the rear suspension axle fixing screw



"F.O." - Full Optional



- Make sure that the ground clearance "B" shown in the figure is within the prescribed value.

Engine type	Equipment	Tyres	Standard 0 H rear protrusion [mm]	Standard A H rear protrusion [mm]
0.9 TwinAir 64 HP	One	175/65-14	670	661
	One	185/55-15	674	666
	One F.O. 5d	175/65-14	665	655
	One F.O. 5d	185/55-15	670	662
0.9 TwinAir 85 HP	Easy	175/65-14	669	659
	Easy F.O. 5d	175/65-14	662	652
	Easy F.O. 5d	185/55-15	667	659
	MTA Easy	175/65-14	669	659
	MTA Easy F.O.	175/65-14	662	652
	MTA Easy F.O.	185/55-15	667	659

	Climbing	175/65-15 (4WD)	716	707
	Climbing	175/65-15 (4WD) Full Opt. 4 doors	704	694
	Climbing	175/65-15 (4WD) Full Opt. 5 doors	711	702
0.9 Natural Power	Easy	175/65-15	720	707
	Easy	175/65-15 Full Opt. 4 doors	713	701
	Easy	175/65-15 Full Opt. 5 doors	720	707
	Trekking	175/65-15	718	706
	Trekking	175/65-15 Full Opt. 4 doors	718	705
	Trekking	175/65-15 Full Opt. 5 doors	712	699

1.2 LPG	Easy	175/65-14	658	648
	Easy F.O. 5d	175/65-14	658	648
	Easy F.O. 5d	185/55-15	664	656
1.2 69 HP	One	175/65-14	670	661
	One	185/55-15	674	666
	One F.O. 5d	175/65-14	665	655
	One F.O. 5d	185/55-15	670	662
	Easy	175/65-14	670	661
	Easy	185/55-15	674	666
	Easy F.O. 5d	175/65-14	663	654
	Easy F.O. 5d	185/55-15	669	662
1.3 MultiJet 75 HP	One	175/65-14	669	659
	One	185/55-15	673	664

	One F.O. 5d	175/65-14	663	653
	One F.O. 5d	185/55-15	669	660
	Climbing	175/65-15 (4WD)	714	704
	Climbing	175/65-15 (4WD) Full Opt. 4 doors	701	691
	Climbing	175/65-15 (4WD) Full Opt. 5 doors	709	699



"B" - Height from the ground of the rear protrusion



"F.O." - Full Optional

CHECK CONDITIONS

Before carrying out checks, check that the vehicle is in one of the following setup conditions:

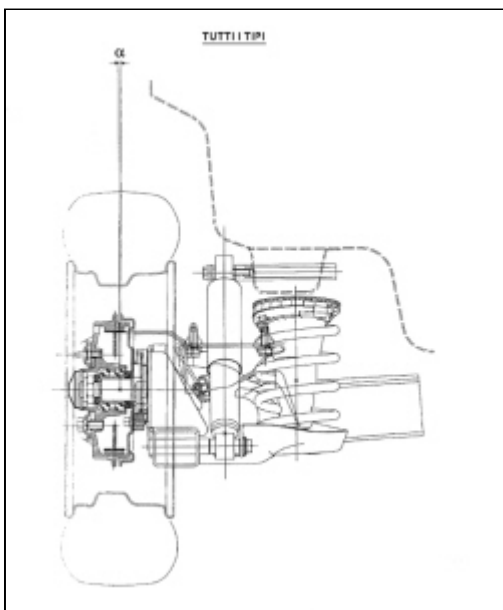
a) Std 0;

a) Std A.

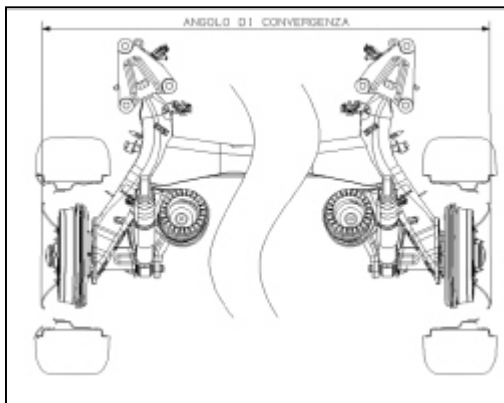
WHEEL CAMBER alfa ANGLE

Toll. $\pm 0^{\circ} 30'$ for all versions and must be:

Size	Value	Validity
Rear wheel camber (Standard 0)	$-1^{\circ} 12' \pm 30'$	
Size	Value	Validity
Rear wheel camber (Standard A)	$-1^{\circ} 12' \pm 30'$	



Size	Value	Validity
Rear wheel camber (Standard 0)	$-1^{\circ} 4' \pm 30'$	0.9 85 HP Trekking / 4WD / Natural Power 1.3 MultiJet 75 HP Trekking / 4WD
Size	Value	Validity
Rear wheel camber (Standard A)	$-1^{\circ} 4' \pm 30'$	0.9 85 HP Trekking / 4WD / Natural Power 1.3 MultiJet 75 HP Trekking / 4WD



WHEEL TOE IN

Tolerance. $\pm 0^{\circ} 22'$ for all versions and must be:

ENGINE TYPES	Load conditions	
	Std 0	Std A
0.9 Petrol Asp/Trb FWD	0° 34'	0° 32'
1.2 Petrol - LPG FWD		
1.3 JTD FWD		
14" WHEEL		
0.9 Petrol Asp/Trb FWD	0° 34'	0° 32'
1.2 Petrol - LPG FWD		

1.3 JTD FWD		
15" WHEEL		
0.9 Petrol Asp/Trb FWD	0° 34'	0° 32'
1.2 Petrol - LPG FWD		
1.3 JTD FWD		
16" WHEEL		
0.9 Petrol Trb AWD	0° 22'	0° 24'
1.3 JTD AWD		
15" WHEEL		
0.9 Trb CNG FWD	0° 18'	0° 20'
15" WHEEL		
0.9 Petrol Turbo FWD Trekking	0° 22'	0° 24'
1.3 JTD FWD Trekking		

15" WHEEL		
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