

Classification: FA18-002

Reference:

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2017-2018 QX30; ALIGNMENT SPECIFICATIONS

APPLIED VEHICLES: 2017 – 2018 QX30 (H15)

SERVICE INFORMATION

Hunter brand alignment machines may have incorrect alignment specifications for 2017-2018 QX30.

- Revised data is currently available for installation from Hunter.
- Until the updated data is installed in your Hunter machine, please use the correct specifications on pages 2 5 of this bulletin.

For 2018 QX30:

- The alignment specification in the Electronic Service Manual (ESM) are incorrect.
- The ESM will be updated at a later date.
- Until the update is complete, please use the correct specifications on pages 2 5 of this bulletin.

For 2017 QX30:

- The alignment specifications in the ESM are correct.
- Alignment specifications are found in the ESM under:
 - SUSPENSION > FRONT SUSPENSION or
 - SUSPENSION > REAR SUSPENSION
- Correct specifications are also on pages 2 5 of this bulletin.

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

FRONT SUSPENSION

Wheel	Alignment		NISX0000000		
	2WD Irbo Engine				
		Item	Standard		
		Minimum	-1° 35′ (-1.58°)		
Camber		Nominal	-0° 50′ (-0.83°)		
Degree mini	ute (Decimal degree)	Maximum	-0° 05′ (-0.09°)		
		Left and right difference*1	-0° 30′ (-0.50°) - 0° 30′ (0.50°)		
		Minimum	5° 30′ (5.50°)		
Caster		Nominal	6° 15′ (6.25°)		
Degree mini	ute (Decimal degree)	Maximum	7° 00′ (7.00°)		
		Left and right difference*1	-0° 30′ (-0.50°) - 0° 30′ (0.50°)		
Kingpin incli		Minimum	9° 45′ (9.75°)		
	Nominal		10° 30′ (10.50°)		
Degree mini	ute (Decimal degree)	Maximum	11° 15′ (11.25°)		
	Total toe-in	Minimum	In 0.7 mm (0.028 in)		
	1	Nominal	In 2.7 mm (0.106 in)		
	Distance	Maximum	In 4.7 mm (0.185 in)		
Toe-in	Total toe-angle	Minimum	In 0° 4′ 12″ (In 0.07°)		
	Degree minute	Nominal	In 0° 13′ 48″ (In 0.23°)		
	(Decimal degree)	Maximum	In 0° 23′ 24″ (In 0.39°)		

Measure value under unladen*2 conditions.

^{*2:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

2.0L	2WD Turbo Engine					
Item			Standard			
Grade			Base Leather Premium Base + Leather	Sport S Premium S		
		Minimum	-1° 35′ (-1.58°)	-1° 45′ (-1.75°)		
Camber		Nominal	-0° 50′ (-0.83°)	-1° 00′ (-1.00°)		
Degree mir	nute (Decimal degree)	Maximum	-0° 05′ (-0.09°)	-0° 15′ (-0.25°)		
		Left and right difference*1	-0° 30′ (-0.50°)	-0° 30′ (-0.50°) - 0° 30′ (0.50°)		
		Minimum	5° 30′ (5.50°)	5° 50′ (5.84°)		
Caster		Nominal	6° 15′ (6.25°)	6° 35′ (6.58°)		
Degree mir	nute (Decimal degree)	Maximum	7° 00′ (7.00°)	7° 20′ (7.33°)		
		Left and right difference*1	-0° 30′ (-0.50°)) - 0° 30′ (0.50°)		
Kingpin inc	lination	Minimum	9° 45′ (9.75°)	9° 55′ (9.92°)		
		Nominal	10° 30′ (10.50°)	10° 40′ (10.67°)		
Degree mir	nute (Decimal degree)	Maximum	11° 15′ (11.25°)	11° 25′ (11.41°)		
	Total toe-in	Minimum	In 0.7 mm	(0.028 in)		
		Nominal	In 2.7 mm	(0.106 in)		
	Distance	Maximum	In 4.7 mm	(0.185 in)		
Toe-in	Total toe-angle	Minimum	In 0° 4′ 12″ (In 0.07°)	In 0° 3′ 36″ (In 0.06°)		
	Degree minute	Nominal	In 0° 13′ 48″ (In 0.23°)	In 0° 13′ 12″ (In 0.22°)		
	(Decimal degree)	Maximum	In 0° 23′ 24″ (In 0.39°)	In 0° 22′ 48″ (In 0.38°)		

Measure value under unladen*2 conditions.

- *1: A difference when assuming the left side a standard.
- *2: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

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^{*1:} A difference when assuming the left side a standard.

FRONT SUSPENSION

AWD	
2.0L Turbo Engine	

Item			Standard	
Camber Degree minute (Decimal degree)		Minimum	-1° 15′ (-1.25°)	
		Nominal	-0° 30′ (-0.50°)	
		Maximum	0° 15′ (0.25°)	
		Left and right difference*1	-0° 30′ (-0.50°) - 0° 30′ (0.50°)	
Caster		Minimum	5° 10′ (5.17°)	
		Nominal	5° 55′ (5.92°)	
Degree minut	te (Decimal degree)	Maximum	6° 40′ (6.66°)	
		Left and right difference*1	-0° 30′ (-0.50°) - 0° 30′ (0.50°)	
Kingpin inclination		Minimum	9° 25′ (9.42°)	
		Nominal	10° 10′ (10.17°)	
Degree minut	te (Decimal degree)	Maximum	10° 55′ (10.91°)	
	Total toe-in Distance	Minimum	In 0.7 mm (0.028 in)	
		Nominal	In 2.7 mm (0.106 in)	
Toe-in		Maximum	In 4.7 mm (0.185 in)	
	Total toe-angle	Minimum	In 0° 4′ 12″ (In 0.07°)	
	Degree minute	Nominal	In 0° 13′ 48″ (In 0.23°)	
	(Decimal degree)	Maximum	In 0° 23′ 24″ (In 0.39°)	

Measure value under unladen*2 conditions.

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^{*1:} A difference when assuming the left side a standard.
*2: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR SUSPENSION

	2WD urbo Engine		NESS0000000 131045
	Item		Standard
C		Minimum	-1° 15′ (-1.25°)
Camber		Nominal	-0° 45′ (-0.75°)
Degree minute (Decimal degree)		Maximum	-0° 15′ (-0.25°)
	Total toe-in	Minimum	Out 1.6 mm (Out 0.063 in)
		Nominal	In 0.4 mm (In 0.016 in)
	Distance	Maximum	In 2.4 mm (In 0.094 in)
Toe-in	Total toe-angle	Minimum	Out 0° 06′ 36″ (Out 0.11°)
	Degree minute	Nominal	In 0° 01′ 48″ (In 0.03°)
	(Decimal degree)	Maximum	In 0° 10′ 12″ (In 0.17°)

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

2.0L Tui	2WD rbo Engine - EXCEPT Cana	ada			
Item			Standard		
			Base	Sport	
			Leather		
Grade			Premium	S Premium	
			Base + Leather	s	
Cambor	Camber Minimum Nominal Degree minute (Decimal degree) Maximum		-1° 15′ (-1.25°)	-1° 45′ (-1.75°)	
			-0° 45′ (-0.75°)	-1° 15′ (-1.25°)	
Degree minute (D			-0° 15′ (-0.25°)	-0° 45′ (-0.75°)	
	Total toe-in	Minimum	Out 1.6 mm (Out 0.063 in)	Out 0.8 mm (Out 0.031 in)	
		Nominal	In 0.4 mm (In 0.016 in)	In 1.2 mm (In 0.047 in)	
Toe-in	Distance	Maximum	In 2.4 mm (In 0.094 in)	In 3.2 mm (In 0.126 in)	
	Total toe-angle	Minimum	Out 0° 06′ 36″ (Out 0.11°)	In 0° 02′ 24″ (In 0.04°)	
	Degree minute	Nominal	In 0° 01′ 48″ (In 0.03°)	In 0° 06′ 00″ (In 0.10°)	
	(Decimal degree)	Maximum	In 0° 10′ 12″ (In 0.17°)	In 0° 14′ 24″ (In 0.24°)	

Measure value under unladen* conditions.

^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

2.0L Tur	2WD bo Engine - Canada					
Item			Standard			
			Base			
			Leather	Sport		
Grade			Premium	S Premium		
			Base + Leather			
Camber		Minimum	-1° 15′ (-1.25°)	-1° 45′ (-1.75°)		
Degree minute (Decimal degree) Maximum Maximum		-0° 45′ (-0.75°)	-1° 15′ (-1.25°)			
		Maximum	-0° 15′ (-0.25°)	-0° 45′ (-0.75°)		
	Total toe-in	Minimum	Out 1.7 mm (Out 0.067 in)	Out 0.8 mm (Out 0.031 in)		
		Nominal	In 0.3 mm (In 0.012 in)	In 1.2 mm (In 0.047 in)		
	Distance	Maximum	In 2.3 mm (In 0.091 in)	In 3.2 mm (In 0.126 in)		
Toe-in	Total toe-angle	Minimum	Out 0° 06′ 36″ (Out 0.11°)	In 0° 02′ 24″ (In 0.04°)		
	Degree minute	Nominal	In 0° 01′ 48″ (In 0.03°)	In 0° 06′ 00″ (In 0.10°)		
	(Decimal degree)	Maximum	In 0° 10′ 12″ (In 0.17°)	In 0° 14′ 24″ (In 0.24°)		

Measure value under unladen* conditions.

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^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR SUSPENSION

AWD 2.0	OL Turbo Engine - EXCEI	PT Canada					
	Iter	n				Standard	
Camber			Minimum			-1° 20′ (-1.33°)	
			Nominal			-0° 50′ (-0.83°)	
Degree minute (D	ecimal degree)		Maximum	-		-0° 20′ (-0.34°)	
	Total toe-in		Minimum			Out 1.5 mm (Out 0.059 in)	
	Distance		Nominal			In 0.5 mm (In 0.020 in)	
	Distance		Maximum			In 2.5 mm (In 0.098 in)	
Toe-in	Total toe-angle		Minimum			Out 0° 06′ 00" (Out 0.10°)	
	Degree minute (Decimal degree)		Nominal		In 0° 02′ 24″ (In 0.04°)		
			Maximum			In 0° 10′ 48″ (In 0.18°)	
Measure value und	AWD 2.0L Turbo Engine	e - Canada					
Item		Standard			dard		
Grade			Base			Premium	
Camber		Minimum	-1° 15′ (-1.25°)		i°)	-1° 20′ (-1.33°)	
		Nominal	-0° 45′ (-0.75°)		i°)	-0° 50′ (-0.83°)	
Degree minute (D	ecimai degree)	Maximum	-0° 15′ (-0.25°)		i°)	-0° 20′ (-0.34°)	
	Total toe-in	Minimum	Out 1.6 mm (Out 0.063 in)		.063 in)	Out 1.5 mm (Out 0.059 in)	
	Distance	Nominal	In 0.4 mm (In 0.016 in)		16 in)	In 0.5 mm (In 0.020 in)	
T i-	Distance	Maximum	In 2.4 mm (In 0.094 in)		94 in)	In 2.5 mm (In 0.098 in)	
Toe-in	Total toe-angle	Minimum	Out 0° 06′ 00		Out 0° 06′ 00	7" (Out 0.10°)	
	Degree minute	Nominal	In 0° 02′ 24		In 0° 02′ 24	4" (In 0.04°)	
	(Decimal degree)	Maximum	In 0° 10′ 48″ (In 0.18°)		3" (In 0.18°)		

Measure value under unladen* conditions.

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^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.