

Classification:

FA18-002

Reference:

ITB18-008

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Date:

February 20, 2018

## 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			
2WD 1.6L Turbo Engine			
Item		Standard	
Camber Degree minute (Decimal degree)	Minimum	-1° 35' (-1.58°)	
	Nominal	-0° 50' (-0.83°)	
	Maximum	-0° 05' (-0.09°)	
	Left and right difference* <sup>1</sup>	-0° 30' (-0.50°) - 0° 30' (0.50°)	
Caster Degree minute (Decimal degree)	Minimum	5° 30' (5.50°)	
	Nominal	6° 15' (6.25°)	
	Maximum	7° 00' (7.00°)	
	Left and right difference* <sup>1</sup>	-0° 30' (-0.50°) - 0° 30' (0.50°)	
Kingpin inclination Degree minute (Decimal degree)	Minimum	9° 45' (9.75°)	
	Nominal	10° 30' (10.50°)	
	Maximum	11° 15' (11.25°)	
Toe-in	Total toe-in Distance	Minimum	In 0.7 mm (0.028 in)
		Nominal	In 2.7 mm (0.106 in)
		Maximum	In 4.7 mm (0.185 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 4' 12" (In 0.07°)
		Nominal	In 0° 13' 48" (In 0.23°)
		Maximum	In 0° 23' 24" (In 0.39°)

Measure value under unladen\*<sup>2</sup> 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.

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

Measure value under unladen\*<sup>2</sup> 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.

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

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.

## REAR SUSPENSION

2WD 1.6L Turbo Engine		Item		Standard	
Camber	Degree minute (Decimal degree)	Minimum		-1° 15' (-1.25°)	
		Nominal		-0° 45' (-0.75°)	
		Maximum		-0° 15' (-0.25°)	
Toe-in	Total toe-in Distance	Minimum		Out 1.6 mm (Out 0.063 in)	
		Nominal		In 0.4 mm (In 0.016 in)	
		Maximum		In 2.4 mm (In 0.094 in)	
	Total toe-angle Degree minute (Decimal degree)	Minimum		Out 0° 06' 36" (Out 0.11°)	
		Nominal		In 0° 01' 48" (In 0.03°)	
		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.

2WD 2.0L Turbo Engine - EXCEPT Canada		Item		Standard	
Grade				Base	Sport
				Leather Premium Base + Leather	S Premium S
Camber	Degree minute (Decimal degree)	Minimum		-1° 15' (-1.25°)	-1° 45' (-1.75°)
		Nominal		-0° 45' (-0.75°)	-1° 15' (-1.25°)
		Maximum		-0° 15' (-0.25°)	-0° 45' (-0.75°)
Toe-in	Total toe-in Distance	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)
		Maximum		In 2.4 mm (In 0.094 in)	In 3.2 mm (In 0.126 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum		Out 0° 06' 36" (Out 0.11°)	In 0° 02' 24" (In 0.04°)
		Nominal		In 0° 01' 48" (In 0.03°)	In 0° 06' 00" (In 0.10°)
		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.

2WD 2.0L Turbo Engine - Canada		Item		Standard	
Grade				Base	Sport
				Leather Premium Base + Leather	S Premium
Camber	Degree minute (Decimal degree)	Minimum		-1° 15' (-1.25°)	-1° 45' (-1.75°)
		Nominal		-0° 45' (-0.75°)	-1° 15' (-1.25°)
		Maximum		-0° 15' (-0.25°)	-0° 45' (-0.75°)
Toe-in	Total toe-in Distance	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)
		Maximum		In 2.3 mm (In 0.091 in)	In 3.2 mm (In 0.126 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum		Out 0° 06' 36" (Out 0.11°)	In 0° 02' 24" (In 0.04°)
		Nominal		In 0° 01' 48" (In 0.03°)	In 0° 06' 00" (In 0.10°)
		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.

## REAR SUSPENSION

AWD 2.0L Turbo Engine - EXCEPT Canada			
Item		Standard	
Camber	Degree minute (Decimal degree)	Minimum	-1° 20' (-1.33°)
		Nominal	-0° 50' (-0.83°)
		Maximum	-0° 20' (-0.34°)
Toe-in	Total toe-in Distance	Minimum	Out 1.5 mm (Out 0.059 in)
		Nominal	In 0.5 mm (In 0.020 in)
		Maximum	In 2.5 mm (In 0.098 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 06' 00" (Out 0.10°)
		Nominal	In 0° 02' 24" (In 0.04°)
		Maximum	In 0° 10' 48" (In 0.18°)
Measure value under unladen* conditions.			
AWD 2.0L Turbo Engine - Canada			
Item		Standard	
Grade		Base	Premium
Camber	Degree minute (Decimal degree)	Minimum	-1° 15' (-1.25°)
		Nominal	-0° 45' (-0.75°)
		Maximum	-0° 15' (-0.25°)
Toe-in	Total toe-in Distance	Minimum	Out 1.6 mm (Out 0.063 in)
		Nominal	In 0.4 mm (In 0.016 in)
		Maximum	In 2.4 mm (In 0.094 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 06' 00" (Out 0.10°)
		Nominal	In 0° 02' 24" (In 0.04°)
		Maximum	In 0° 10' 48" (In 0.18°)

Measure value under unladen\* conditions.

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