

Classification:

Reference:

Date:

FA17-002

ITB17-031

April 11, 2017

2016-2017 QX60 AND QX60 HYBRID; REVISED WHEEL ALIGNMENT SPECIFICATIONS

APPLIED VEHICLES: 2016-2017 QX60 (L50)
2016-2017 QX60 Hybrid (L50)

SERVICE INFORMATION

For the Applied Vehicles, some wheel alignment specifications listed in the Front Suspension (FSU) and Rear Suspension (RSU) sections of the Electronic Service Manual (ESM) have been revised.

Updated ESMs will be distributed to the field as quickly as possible.

Until the updated ESMs are made available, please use the corrected specifications listed in this bulletin.

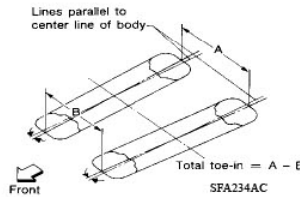
Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply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

Front Wheel Alignment Specifications

Wheel Alignment (Unladen*¹)

INFOID:000000012853764

Item		Standard	
Measurement wheel		(LH) side	(RH) side
Camber Degree minute (Decimal degree)	Minimum	-1° 04' 30" (-1.075°)	
	Nominal	-0° 15' 00" (-0.25°)	
	Maximum	0° 34' 30" (0.575°)	
	(LH) and (RH) difference* ²	0° 00' 00" ± 0° 33' 00" (0° ± 0.55°)	
Caster Degree minute (Decimal degree)	Minimum	3° 46' 12" (3.77°)	
	Nominal	4° 40' 12" (4.67°)	
	Maximum	5° 34' 12" (5.57°)	
	(LH) and (RH) difference* ²	0° 30' 00" (0.50°) Maximum	
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 55' 12" (11.92°)	12° 10' 12" (12.17°)
	Nominal	12° 40' 12" (12.67°)	12° 55' 12" (12.92°)
	Maximum	13° 25' 12" (13.42°)	13° 40' 12" (13.67°)



Total toe-in	Distance (A - B)	Minimum	Out 1.6 mm (Out 0.063 in)
		Nominal	In 1.4 mm (In 0.055 in)
		Maximum	In 4.4 mm (In 0.173 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 06' 00" (Out 0.10°)
		Nominal	In 0° 06' 00" (In 0.10°)
		Maximum	In 0° 18' 00" (In 0.30°)

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

*2: The difference when assuming the (LH) side is the standard.

Ball Joint

INFOID:000000012853765

Item		Standard
Swing torque	Transverse link	0.5 – 4.9 N·m (0.05 – 0.50 kg-m, 4 – 43 in-lb)
Measurement on spring balance	Transverse link	11.1 – 108.9 N (1.13 – 11.11 kg, 2.50 – 24.48 lb)
Axial end play		0 mm (0 in)

Rear Wheel Alignment Specifications

Wheel Alignment (Unladen*)

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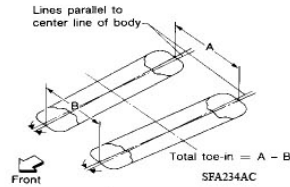
B

Item		Standard
Camber Degree minute (Decimal degree)	Minimum	-1° 19' 48" (-1.33°)
	Nominal	-0° 34' 48" (-0.58°)
	Maximum	0° 10' 12" (0.17°)

C

D

RSU



F

Total toe-in	Distance (A - B)	Minimum	Out 0.6 mm (Out 0.024 in)
		Nominal	In 2.4 mm (In 0.094 in)
		Maximum	In 5.4 mm (In 0.213 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 07' 12" (Out 0.12°)
		Nominal	In 0° 10' 48" (In 0.18°)
		Maximum	In 0° 28' 48" (In 0.48°)

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H

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

Ball Joint

INFOID:0000000012853793

J

Item	Standard
Swinging force (cotter pinhole position)	0.5 – 3.4 N·m (0.05 – 0.35 kg-m, 4 – 30 in-lb)
Rotating torque	8.1 – 54.8 N (0.83 – 5.59 kg, 1.82 – 12.32 lb)
Vertical end play	0 mm (0 in)

K

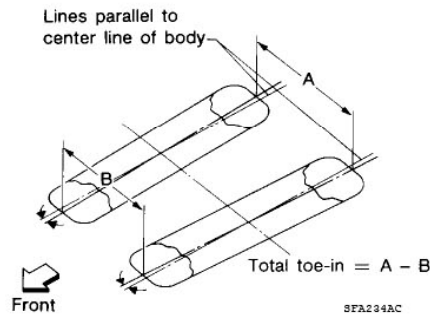
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Front Wheel Alignment Specifications

Wheel Alignment (Unladen*1)

INFOID:0000000015003583

Item		Standard
Camber Degree minute (Decimal degree)	Minimum	-1° 04' 30" (-1.075°)
	Nominal	-0° 15' 00" (-0.250°)
	Maximum	0° 34' 30" (0.575°)
	(LH) and (RH) difference*2	0° 00' 00" ± 0° 33' 00" (0.00° ± 0.55°)
Caster Degree minute (Decimal degree)	Minimum	3° 51' 00" (3.85°)
	Nominal	4° 45' 00" (4.75°)
	Maximum	5° 39' 00" (5.65°)
	(LH) and (RH) difference*2	0° 30' 00" (0.50°) Maximum
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 55' 00" (11.92°)
	Nominal	12° 40' 00" (12.67°)
	Maximum	13° 25' 00" (13.42°)



Total toe-in	Distance (A - B)	Minimum	Out 1.6 mm (Out 0.063 in)
		Nominal	In 1.4 mm (In 0.055 in)
		Maximum	In 4.4 mm (In 0.173 in)
	Angle (LH) and (RH) Degree minute (Decimal degree)	Minimum	Out 0° 06' 00" (Out 0.10°)
		Nominal	In 0° 06' 00" (In 0.10°)
		Maximum	In 0° 18' 00" (In 0.30°)

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

*2: The difference when assuming the (LH) side is the standard.

Ball Joint

INFOID:0000000015003584

Item		Standard
Swinging torque	Transverse link	0.5 – 4.9 N·m (0.05 – 0.50 kg-m, 4 – 43 in-lb)
Rotating torque	Transverse link	0.5 – 4.9 N·m (0.05 – 0.50 kg-m, 4 – 43 in-lb)
Axial end play		0.1 mm (0.004 in)

Rear Wheel Alignment Specifications

Wheel Alignment (Unladen*)

INFOID:0000000015003610

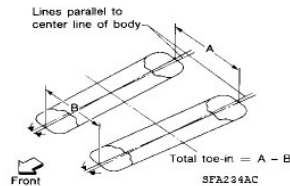
Item		Standard	
		United States & Mexico	Canada
Market			
Camber Degree minute (Decimal degree)	Minimum	-1° 25' 12" (-1.42°)	-1° 19' 48" (-1.33°)
	Nominal	-0° 40' 12" (-0.67°)	-0° 34' 48" (-0.58°)
	Maximum	0° 04' 48" (0.08°)	0° 10' 12" (0.17°)

B

C

D

RSU



F

G

Total toe-in	Distance (A - B)	Minimum	Out 0.6 mm (Out 0.024 in)
		Nominal	In 2.4 mm (In 0.094 in)
		Maximum	In 5.4 mm (In 0.213 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 2' 24" (Out 0.04°)
		Nominal	In 0° 9' 36" (In 0.16°)
		Maximum	In 0° 21' 36" (In 0.36°)

H

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

J

Ball Joint

INFOID:0000000015003611

Item	Standard
Swinging torque	0.5 – 3.4 N·m (0.05 – 0.35 kg-m, 4 – 30 in-lb)
Rotating torque	0.5 – 3.4 N·m (0.05 – 0.35 kg-m, 4 – 30 in-lb)
Vertical end play	0.1 mm (0.004 in)

K

L