

Classification:

Reference:

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### ESM CORRECTIONS FOR FRONT WHEEL ALIGNMENT SPECIFICATIONS

APPLIED VEHICLES: 2017 Q60 (V37)

2016 - 2017 Q50 (V37)

2016 - 2017 Q50 Hybrid (V37)

2016 - 2017 Q70 (Y51)

2016 - 2017 Q70 Hybrid (Y51)

2016 – 2017 QX50 (J50) 2016 – 2017 QX80 (Z62)

#### SERVICE INFORMATION

For the Applied Vehicles listed above, some front wheel alignment specifications listed in the Electronic Service Manual (ESM), section FSU-Front Suspension, were listed incorrectly and have been corrected.

- 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.
- Specification areas that have corrections are outlined with a Red box on the following pages.

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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.

# 2017 Q60

# Front Wheel Alignment Specifications

# 2WD (EXCEPT VR30DDTT)

	Item	Standard	
		Minimum	-1° 20′ (-1.33°)
Camber		Nominal	-0° 35′ (-0.58°)
Degree i	minute (Decimal degree)	Maximum	0° 10′ (0.16°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	3° 10′ (3.17°)
Caster		Nominal	4° 30′ (4.50°)
Degree i	minute (Decimal degree)	Maximum	5° 50′ (5.83°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 45′ (6.75°)
•	inclination minute (Decimal degree)	Nominal	7° 30′ (7.50°)
Dog. oo .	Timate (Decimal degree)	Maximum	8° 15′ (8.25°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toe-in		Maximum	In 4 mm (In 0.16 in)
ioe-in		Minimum	0° 00′ (0.00°)
	Total toe angle Degree minute (Decimal Degree)	Nominal	In 0° 10′ (In 0.17°)
	= -33 (2 -3 2 -3	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

# 2WD (VR30DDTT)

	Item		Standard
	Minimum		-1° 10′ (-1.16°)
Cambe		Nominal	-0° 25′ (-0.42°)
	minute (Decimal degree)	Maximum	0° 20′ (0.33°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	3° 30′ (3.50°)
Caster		Nominal	4° 50′ (4.83°)
Degree	minute (Decimal degree)	Maximum	6° 10′ (6.16°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 40′ (6.67°)
	n inclination e minute (Decimal degree)	Nominal	7° 25′ (7.42°)
209.00	,a.g. (200a. a0g.00)	Maximum	8° 10′ (8.16°)
	<b>-</b>	Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toe-in		Maximum	In 4 mm (In 0.16 in)
106-111	Total toe-angle	Minimum	0° 00′ (0.00°)
	Degree minute (Decimal	Nominal	In 0° 10′ (In 0.17°)
	degree)	Maximum	In 0° 20′ (In 0.33°)

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

#### 2017 Q60

# Front Wheel Alignment Specifications

#### **AWD**

#### 2.0L Turbo Gasoline Engine

#### EXCEPT CANADA

	Item		Standard
		Minimum	-1° 20′ (-1.33°)
Camber		Nominal	-0° 35′ (-0.58°)
Degree n	ninute (Decimal degree)	Maximum	0° 10′ (0.16°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	3° 10′ (3.17°)
Caster		Nominal	4° 30′ (4.50°)
Degree n	ninute (Decimal degree)	Maximum	5° 50′ (5.83°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 45′ (6.75°)
	nclination ninute (Decimal degree)	Nominal	7° 30′ (7.50°)
Dogreen	minute (Beelinal degree)	Maximum	8° 15′ (8.25°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Tan in		Maximum	In 4 mm (In 0.16 in)
Toe-in		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ (In 0.17°)
	25g.55stc (256miar dogres)	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

#### CANADA

	ltem		Standard
		Minimum	-1° 20′ (-1.33°)
Camber		Nominal	-0° 35′ (-0.58°)
Degree n	ninute (Decimal degree)	Maximum	0° 10′ (0.16°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	3° 05′ (3.09°)
Caster		Nominal	4° 25′ (4.42°)
Degree n	ninute (Decimal degree)	Maximum	5° 45′ (5.75°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 45′ (6.75°)
	nclination ninute (Decimal degree)	Nominal	7° 30′ (7.50°)
Dogradii	minate (Beelman degree)	Maximum	8° 15′ (8.25°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
	Distance	Maximum	In 4 mm (In 0.16 in)
Toe-in		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ (In 0.17°)
	Degree minute (Decimal degree)	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

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

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

# 2017 Q60

# Front Wheel Alignment Specifications

# AWD

#### VR30DDTT

	ltem		Standard
Camber		Minimum	
		Nominal	-0° 35′ (-0.58°)
Degree r	minute (Decimal degree)	Maximum	0° 10′ (0.16°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	3° 05′ (3.09°)
Caster		Nominal	4° 25′ (4.42°)
Degree r	minute (Decimal degree)	Maximum	5° 45′ (5.75°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 45′ (6.75°)
	nclination ninute (Decimal degree)	Nominal	7° 30′ (7.50°)
Dog.co.	milate (Beelinal degree)	Maximum	8° 15′ (8.25°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toolin	Distance .	Maximum	In 4 mm (In 0.16 in)
Toe-in		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ (In 0.17°)
	213.11att (200mai augreu)	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

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

Front Wheel Alignment Specifications

2WD

VR30DDTT

# EXCEPT FOR PREMIUM SPORT GRADE

	Item		Standard
		Minimum	-1° 10′ (-1.16°)
Cambei	r	Nominal	-0° 25′ (-0.42°)
Degree	minute (Decimal degree)	Maximum	0° 20′ (0.33°)
		Left and right difference	0° 30′ (0.50°) or less
-		Minimum	3° 15′ (3.25°)
Caster	•	Nominal	4° 35′ (4.58°)
Degree	egree minute (Decimal degree) Maximum		5° 55′ (5.91°)
	,	Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 40′ (6.67°)
	inclination minute (Decimal degree)	Nominal	7° 25′ (7.42°)
9		Maximum	8° 10′ (8.16°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toe-in		Maximum	In 4 mm (In 0.16 in)
106-111	Total toe-angle	Minimum	0° 00′ (0.00°)
	Degree minute (Decimal	Nominal	In 0° 10′ (In 0.17°)
	degree)	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

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

Front Wheel Alignment Specifications

2WD

VR30DDTT

#### FOR PREMIUM SPORT GRADE

	Item		Stand	lard
Tire Size		Front	245/400510	245/40RF19
		Rear	245/40RF19 –	265/35RF19
		Minimum	–1° 05′ (-	–1.08°)
Camber		Nominal	<b>-</b> 0° 20′ (·	-0.33°)
Degree	minute (Decimal degree)	Maximum	0° 25′ (	0.41°)
	,	Left and right difference	0° 30′ (0.50	0°) or less
		Minimum	3° 20′ (3.34°)	3° 25′ (3.42°)
Caster	,	Nominal	4° 40′ (4.67°)	4° 45′ (4.75°)
Degree	minute (Decimal degree)	Maximum	6° 00′ (6.00°)	6° 05′ (6.08°)
		Left and right difference	0° 30′ (0.50°) or less	
12: .		Minimum	6° 35′ (	6.59°)
	inclination minute (Decimal degree)	Nominal	7° 20′ (7.33°)	
	,	Maximum	8° 05′ (8.08°)	
Tire Siz		Front	245/40RF19	245/40RF19
THE SIZ	c	Rear	245/40KF19	265/35RF19
		Minimum	0 mm (0	0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (I	n 0.08 in)
Toe-in		Maximum	In 4 mm (I	n 0.16 in)
	Total toe-angle	Minimum	0° 00′ (	(0.00°)
	Degree minute (Decimal	Nominal	In 0° 10′ (	(In 0.17°)
	degree)	Maximum	In 0° 20′ (	In 0.33°)

Measure value under unladen\* conditions.

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

# 2016 - 2017 Q50 Hybrid

### Front Wheel Alignment Specifications

### 2WD

	ltem		Standard
		Minimum	-1° 05′ (-1.08°)
Camber		Nominal	-0° 20′ (-0.33°)
Degree m	inute (Decimal degree)	Maximum	0° 25′ (0.41°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 20′ (3.34°)
Caster		Nominal	4° 40′ (4.62°)
Degree m	inute (Decimal degree)	Maximum	6° 00′ (6.00°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 35′ (6.59°)
Kingpin in Degree m	clination inute (Decimal degree)	Nominal	7° 20′ (7.33°)
2 ogree iii	mate (Booman dogroo)	Maximum	8° 05′ (8.08°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toe-in	Distance	Maximum	In 4 mm (In 0.16 in)
ioe-in		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ (In 0.17°)
	2 23. 23 minute (2 contrar degree)	Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

#### **AWD**

	Item		Standard
		Minimum	-1° 15′ (-1.25°)
Camber		Nominal	-0° 30′ (-0.50°)
Degree n	ninute (Decimal degree)	Maximum	0° 15′ (0.25°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 00′ (3.00°)
Caster		Nominal	4° 20′ (4.33°)
Degree n	ninute (Decimal degree)	Maximum	5° 40′ (5.66°)
		Left and right difference	0° 30′ (0.50°) or less
		Minimum	6° 45′ (6.75°)
-	nclination ninute (Decimal degree)	Nominal	7° 30′ (7.50°)
20g.00	ate (Decimal degree)	Maximum	8° 15′ (8.25°)
		Minimum	0 mm (0.00 in)
	Total toe-in Distance	Nominal	In 2 mm (In 0.08 in)
Toe-in		Maximum	In 4 mm (In 0.16 in)
106-111		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ (In 0.17°)
		Maximum	In 0° 20′ (In 0.33°)

Measure value under unladen\* conditions.

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

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

# 2016 - 2017 Q70 Hybrid

# Front Wheel Alignment Specifications

	ltem		Standard
		Minimum	-0° 55′ (-0.91°)
Cambe	r	Nominal	-0° 10′ (-0.17°)
Degree	minute (Decimal degree)	Maximum	0° 35′ (0.58°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 10′ (3.17°)
Caster		Nominal	4° 30′ (4.50°)
Degree	minute (Decimal degree)	Maximum	5° 50′ (5.83°)
		Left and right difference	0° 39′ (0.65°) or less
121		Minimum	6° 25′ (6.42°)
•	inclination minute (Decimal degree)	Nominal	7° 10′ (7.17°)
2 - 3		Maximum	7° 55′ (7.91°)
		Minimum	Out 0.5 mm (Out 0.20 in)
	Total toe-in Distance	Nominal	In 1.5 mm (In 0.59 in)
Toe-in	2.0.0	Maximum	In 3.5 mm (In 0.138 in)
106-111	Total toe-angle	Minimum	Out 0 ° 02' (Out 0.03°)
	Degree minute (Decimal	Nominal	In 0° 08′ (In 0.13°)
	degree)	Maximum	In 0° 18′ (In 0.30°)

Measure value under unladen\* conditions.

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

# Front Wheel Alignment Specifications

### 2WD

Item			Standard		
Grade			Except Sport*2		Sport*2
Wheel:	size		18 inch	20 inch	20 inch
		Minimum	−0° 55′ (	–0.91°)	-1° 00′ (-1.00°)
Cambe	r	Nominal	−0° 10′ (	–0.17°)	-0° 15′ (-0.25°)
Degree	minute (Decimal degree)	Maximum	0° 35′ (	0.58°)	0° 30′ (0.50°)
		Left and right difference		0° 33′ (0.55°) or less	
		Minimum		3° 10′ (3.17°)	
Caster		Nominal	4° 30′ (4.50°)		
Degree	minute (Decimal degree)	Maximum	5° 50′ (5.83°)		
		Left and right difference	0° 39′ (0.65°) or less		
		Minimum	6° 25′ (	6.42°)	6° 30′ (6.50°)
	n inclination minute (Decimal degree)	Nominal	7° 10′ (	7.17°)	7° 15′ (7.25°)
Dogico	minate (Beelmar degree)	Maximum	7° 55′ (	7.91°)	8° 00′ (8.00°)
		Minimum	Out 0.5 mm (Out 0.20 in)		n)
	Total toe-in Distance	Nominal	In 1.5 mm (In 0.59 in)		
<b>.</b> .	Distance	Maximum	In 3.5 mm (In 0.138 in)		)
Toe-in	Total toe-angle	Minimum	Out 0 ° 02′ (Out 0.03°)		)
	Degree minute (Deci-	Nominal	In 0° 08′ (In 0.13°)		
	mal degree)	Maximum		In 0° 18′ (In 0.30°)	

Measure value under unladen\*1 conditions.

<sup>\*1:</sup> Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

<sup>\*2:</sup> Sport grade: Sport Premium, Sport Technology, Sport Premium Technology, Sport Premium touring, Sport Premium touring Technology.

# Front Wheel Alignment Specifications

### AWD

ltem			Standard		
Camber Degree minute (Decimal degree)		Minimum	-0° 50′ (-0.83°)		
		Nominal	-0° 05′ (-0.08°)		
		Maximum	0° 40′ (0.66°)		
		Left and right difference	0° 33′ (0.55°) or less		
Caster Degree minute (Decimal degree)		Minimum	2° 40′ (2.67°)		
		Nominal	4° 00′ (4.00°)		
		Maximum	5° 20′ (5.33°)		
		Left and right difference	0° 39′ (0.65°) or less		
Kingpin inclination Degree minute (Decimal degree)		Minimum	6° 20′ (6.34°)		
		Nominal	7° 05′ (7.08°)		
Dogico	minute (Beennal degree)	Maximum	7° 50′ (7.83°)		
Toe-in	Total toe-in Distance	Minimum	Out 0.5 mm (Out 0.20 in)		
		Nominal	In 1.5 mm (In 0.59 in)		
		Maximum	In 3.5 mm (In 0.138 in)		
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0 ° 02′ (Out 0.03°)		
		Nominal	In 0° 08′ (In 0.13°)		
		Maximum	In 0° 18′ (In 0.30°)		

Measure value under unladen\* conditions.

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

# Front Wheel Alignment Specifications

### AWD

	Item		Standard	
		Minimum	-0° 40′ (-0.66°)	
Camber Degree minute (Decimal degree)		Nominal	0° 05′ (0.08°)	
		Maximum	0° 50′ (0.83°)	
		Left and right difference	0° 33′ (0.55°) or less	
Caster Degree minute (Decimal degree)		Minimum	2° 55′ (2.92°)	
		Nominal	3° 40′ (3.67°)	
		Maximum	4° 25′ (4.41°)	
		Left and right difference	0° 39′ (0.65°) or less	
1911		Minimum	6° 10′ (6.17°)	
Kingpin inclination Degree minute (Decimal degree)		Nominal	6° 55′ (6.92°)	
		Maximum	7° 40′ (7.66°)	
		Minimum	Out 1 mm (Out 0.03 in)	
	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)	
Taain	Distance	Maximum	In 3 mm (In 0.11 in)	
Toe-in		Minimum	Out 0° 04′ 48″ (Out 0.08°)	
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 04′ 48″ (In 0.08°)	
	2 sg. ss minate (Bosimai dogree)	Maximum	In 0° 14′ 24″ (In 0.24°)	

Measure value under unladen\* conditions.

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

# Front Wheel Alignment Specifications

Item			Standard		
Measuremen	it wheel	Left side	Right side		
Camber Degree minute (Decimal degree)		Minimum	-0°45′ (-0.75°)	-0°55′ (-0.91°)	
		Nominal	0° 00′ (0.00°)	-0°10′ (-0.17°)	
		Maximum	0° 45′ (0.75°)	0° 35′ (0.58°)	
		Left and right difference	0° 33′ (0.55°) or less		
Caster Degree minute (Decimal degree)		Minimum	2° 20′ (2.34°)	2° 40′ (2.67°)	
		Nominal	3° 05′ (3.08°)	3° 25′ (3.42°)	
		Maximum	3° 50′ (3.83°)	4° 10′ (4.16°)	
		Left and right difference	0° 45′ (0.75°) or less		
		Minimum	_	_	
Kingpin inclir Degree minu	nation te (Decimal degree)	Nominal	13° 20′ (13.33°)*1	13° 25′ (13.42°) <sup>*1</sup>	
Dog. co minato (Documar dog. co)		Maximum	_	_	
		Minimum	In 0.4 mm (In 0.016 in)		
	Total toe-in Distance	Nominal	In 3.1 mm (In 0.122 in)		
Too in	Bistarios	Maximum	In 5.8 mm (In 0.228 in)		
Toe-in		Minimum	In 0° 01′ 48″ (In 0.03°)		
	Total toe-angle  Degree minute (Decimal degree)	Nominal	In 0° 12′ 54″ (In 0.22°)		
	2 sg. so minate (2 connar degree)	Maximum	In 0° 24′ (In 0.40°)		

Measure value under unladen 2 conditions.

<sup>\*1:</sup> The minimum value and maximum value is the same as the nominal value.

<sup>\*2:</sup> Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.