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NISSAN JUKE MODEL F15 SERIES

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GI	General Information
EM	Engine Mechanical
LU	Engine Lubrication System
CO	Engine Cooling System
EC	Engine Control System
FL	Fuel System
EX	Exhaust System
STR	Starting System
ACC	Accelerator Control System
CL	Clutch
TM	Transaxle & Transmission
DLN	Driveline
FAX	Front Axle
RAX	Rear Axle
FSU	Front Suspension
RSU	Rear Suspension
WT	Road Wheels & Tires
BR	Brake System
PB	Parking Brake System
BRC	Brake Control System
ST	Steering System
STC	Steering Control System
SB	Seat Belt
SR	SRS Airbag
SRC	SRS Airbag Control System
VTL	Ventilation System
HA	Heater & Air Conditioning System
HAC	Heater & Air Conditioning Control System
INT	Interior
IP	Instrument Panel
SE	Seat
DLK	Door & Lock
SEC	Security Control System
GW	Glass & Window System
PWC	Power Window Control System
RF	Roof
EXT	Exterior
BRM	Body Repair
MIR	Mirrors
EXL	Exterior Lighting System
INL	Interior Lighting System
WW	Wiper & Washer
DEF	Defogger
HRN	Horn
PWO	Power Outlet
BCS	Body Control System
LAN	LAN System
PCS	Power Control System
CHG	Charging System
PG	Power Supply, Ground & Circuit Elements
MWI	Meter, Warning Lamp & Indicator
WCS	Warning Chime System
AV	Audio, Visual & Navigation System
CCS	Cruise Control System
DMS	Drive Mode System
MA	Maintenance
IDX	Alphabetical Index

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FOREWORD

This manual contains maintenance and repair procedure for the 2016 NISSAN JUKE.

In order to assure your safety and the efficient functioning of the vehicle, this manual should be read thoroughly. It is especially important that the PRECAUTIONS in the GI section be completely understood before starting any repair task.

All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the technician and the efficient functioning of the vehicle.

The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately. Service varies with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by NISSAN must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.

NISSAN MOTOR CO., LTD.



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SERVICE MANUAL: Model: _____ Year: _____

PUBLICATION NO. (Refer to Quick Reference Index): _____

Please describe any Service Manual issues or problems in detail:

Page number(s) _____ *Note: Please include a copy of each page, marked with your comments.*

Are the trouble diagnosis procedures logical and easy to use? (circle your answer) YES NO

If no, what page number(s)? _____ *Note: Please include a copy of each page, marked with your comments.*

Please describe the issue or problem in detail: _____

Is the organization of the manual clear and easy to follow? (circle your answer) YES NO

Please comment: _____

What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles?

DATE: _____ YOUR NAME: _____ POSITION: _____

DEALER: _____ DEALER NO.: _____ ADDRESS: _____

CITY: _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: _____

QUICK REFERENCE CHART JUKE

ENGINE TUNE-UP DATA (MR16DDT)

PFP:00000

ELS0003W

Engine model		MR16DDT
Firing order		1 - 3 - 4 - 2
Idle speed	rpm	
	CVT: No load* (in P or N position)	650 ± 50
	M/T: No load* (in Neutral position)	600 ± 50
Ignition timing (BTDC at idle speed)		
For NISMO RS models	CVT: No load* (in P or N position)	6° ± 2°
	M/T: No load* (in Neutral position)	8° ± 2°
Except for NISMO RS models	CVT: No load* (in P or N position)	5° ± 2°
	M/T: No load* (in Neutral position)	5° ± 2°
Tensions of drive belt		Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiator cap relief pressure		kPa (kg/cm ² , psi)
For NISMO RS models	Standard	78 - 98 (0.8 - 1.0, 11 - 14)
	Limit	59 (0.6, 9)
Except for NISMO RS models	Standard	80 - 100 (0.8 - 1.0, 11.6 - 14.5)
	Limit	60 (0.6, 8.7)
Cooling system leakage testing pressure		kPa (kg/cm ² , psi)
For NISMO RS models		98 (1.0, 14)
Except for NISMO RS models		100 (1.0, 14.5)
Compression pressure		kPa (kg/cm ² , psi)/rpm
For NISMO RS models	Standard	1,560 (15.9, 226.2)/250
	Minimum	1,190 (12.1, 172.6)/250
	Differential limit between cylinders	100 (1.0, 14.5)/250
Except for NISMO RS models	Standard	1,550 (15.81, 224.7)/200
	Minimum	1,290 (13.15, 187.0)/200
	Differential limit between cylinders	100 (1.0, 14.5)/200
Spark plug (Iridium-tipped type)		
For NISMO RS models	Make	NGK
	Standard type	DILKAR7C9H
Except for NISMO RS models	Make	NGK
	Standard type	DILKAR7E9HS
Gap (Nominal)	Standard	0.9 (0.035)
	Limit	1.1 (0.043)

*: Under the following conditions

- A/C switch: OFF
- Electric load: OFF (Lights, heater fan & rear window defogger)
- Steering wheel: Kept in straight-ahead position

FRONT WHEEL ALIGNMENT

ELS0003X

Item		Standard	
Axle type		2WD	AWD
Camber Degree minute (Decimal degree)	Minimum	-1° 10' (-1.16°)	
	Nominal	-0° 25' (-0.42°)	
	Maximum	0° 20' (0.33°)	
	Left and right difference*1	-0° 45' (-0.75°) - 0° 45' (0.75°)	
Caster Degree minute (Decimal degree)	Minimum	3° 45' (3.75°)	3° 50' (3.84°)
	Nominal	4° 30' (4.50°)	4° 35' (4.58°)
	Maximum	5° 15' (5.25°)	5° 20' (5.33°)
	Left and right difference*1	-0° 45' (-0.75°) - 0° 45' (0.75°)	
Kingpin inclination Degree minute (Decimal degree)	Minimum	10° 40' (10.67°)	
	Nominal	11° 25' (11.42°)	
	Maximum	12° 10' (12.16°)	
Toe-in	Total toe-in Distance	Minimum	0 mm (0.00 in)
		Nominal	In 2 mm (In 0.08 in)
		Maximum	In 4 mm (In 0.16 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 02' 00" (Out 0.03°)
		Nominal	In 0° 10' 00" (In 0.17°)
		Maximum	In 0° 22' 00" (In 0.36°)

Measure value under unladen*2 conditions.

*1: A difference when assumed 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 WHEEL ALIGNMENT

2WD

FOR USA MODELS

Item		Standard	
Camber Degree minute (Decimal degree)	Minimum	-2° 01' (-2.01°)	
	Nominal	-1° 31' (-1.52°)	
	Maximum	-1° 01' (-1.02°)	
Toe-in	Total toe-in Distance	Minimum	Out 1.1 mm (Out 0.043 in)
		Nominal	In 2.9 mm (In 0.114 in)
		Maximum	In 6.9 mm (In 0.272 in)
	Toe angle (left wheel and right wheel)*1 Degree minute (Decimal degree)	Minimum	Out 0° 05' 00" (Out 0.08°)
		Nominal	In 0° 15' 00" (In 0.25°)
		Maximum	In 0° 35' 00" (In 0.58°)

Measure value under unladen*2 conditions.

*1: Since adjustment mechanism is not included, the value of the left and right wheels (both wheels) must be used as the standard value.

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

FOR CANADA MODELS

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	-2° 01' (-2.01°)
		Nominal	-1° 31' (-1.52°)
		Maximum	-1° 01' (-1.02°)
Toe-in	Total toe-in Distance	Minimum	Out 1.2 mm (Out 0.047 in)
		Nominal	In 2.8 mm (In 0.11 in)
		Maximum	In 6.8 mm (In 0.268 in)
	Toe angle (left wheel and right wheel) ^{*1} Degree minute (Decimal degree)	Minimum	Out 0° 06' 00" (Out 0.10°)
		Nominal	In 0° 14' 00" (In 0.23°)
		Maximum	In 0° 34' 00" (In 0.56°)

Measure value under unladen^{*2} conditions.

*1: Since adjustment mechanism is not included, the value of the left and right wheels (both wheels) must be used as the standard value.

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

AWD

FOR USA MODELS

Item			Standard	NISMO	NISMO RS
Tire Size			17 inch	18 inch	
Camber Degree minute (Decimal degree)		Minimum	−0° 45′ (−0.75°)	−0° 41′ (−0.68°)	
		Nominal	0° 00′ (0.00°)	0° 4′ (0.07°)	
		Maximum	0° 45′ (0.75°)	0° 49′ (0.81°)	
Toe-in	Total toe-in Distance	Minimum	In 1.0 mm (In 0.04 in)		
		Nominal	In 3.0 mm (In 0.12 in)		
		Maximum	In 5.0 mm (In 0.20 in)		
	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 06′ 00″ (In 0.10°)	In 0° 11′ 00″ (In 0.18°)	
		Nominal	In 0° 16′ 00″ (In 0.27°)	In 0° 21′ 00″ (In 0.35°)	
		Maximum	In 0° 26′ 00″ (In 0.43°)	In 0° 31′ 00″ (In 0.52°)	

Measure value under unladen* conditions.

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

FOR CANADA MODELS

Item			Standard	NISMO	NISMO RS
Tire Size			17 inch	18 inch	
Camber Degree minute (Decimal degree)			Minimum	−0° 43′ (−0.71°)	
			Nominal	0° 02′ (0.03°)	
			Maximum	0° 47′ (0.78°)	
Toe-in	Total toe-in Distance	Minimum	In 1.0 mm (In 0.04 in)		
		Nominal	In 3.0 mm (In 0.12 in)		
		Maximum	In 5.0 mm (In 0.20 in)		
	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 05′ 00″ (In 0.08°)	In 0° 07′ 00″ (In 0.12°)	
		Nominal	In 0° 15′ 00″ (In 0.25°)	In 0° 17′ 00″ (In 0.28°)	
		Maximum	In 0° 25′ 00″ (In 0.42°)	In 0° 27′ 00″ (In 0.45°)	

Measure value under unladen* conditions.

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

BRAKE PEDAL

Unit: mm (in)

Brake pedal height	160.4 - 170.4 (6.31 - 6.71)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	70.0 (2.756) or more

FRONT DISC BRAKE
EXCEPT NISMO RS

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	24.0 (0.945)

NISMO RS

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	26.0 (1.024)

REAR DISC BRAKE
EXCEPT NISMO RS

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	8.0 (0.315)

NISMO RS

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	14.0 (0.551)

REFILL CAPACITIES

UNIT				Liter	US measure
Fuel tank			2WD models	50.0	13-1/4 gal
			AWD models	45.0	11-7/8 gal
Engine Coolant (With reservoir tank) at MAX level	For NISMO RS models		CVT	8.1	8-1/2 qt
			M/T	7.9	8-3/8 qt
	Except for NISMO RS models		CVT	8.7	9-2/8 qt
			M/T	8.5	9 qt
Engine oil	Drain and refill	With oil filter change	For NISMO RS models	4.5	4-6/8 qt
			Except for NISMO RS models	4.3	4-4/8 qt
		Without oil filter change	For NISMO RS models	4.3	4-4/8 qt
			Except for NISMO RS models	4.1	4-3/8 qt
	Dry engine (Overhaul)		For NISMO RS models	5.4	5-6/8 qt
			Except for NISMO RS models	5.2	5-4/8 qt
Transaxle	CVT		RE0F10B	8.6	9-1/8 qt
			RE0F10D	7.9	8-3/8 qt
	M/T		RS6F94R	2.0	4-1/4 pt
			RS6F52H	1.9	4 pt
Transfer				0.37	3/4 pt
Final drive				0.4	7/8 pt
Air conditioning system	Compressor oil			0.12	4.1 fl oz
	Refrigerant			0.40 kg	0.9 lb