

15,000 km or 12 Months Service Schedule CNG System - Dual Fuel Vehicle - N-series (4JJ1)



PLEASE NOTE:

- 1. This Service Schedule must be used in addition to the Standard Service Schedule to constitute a complete vehicle service.
- 2. This Service Schedule will have preference over the Owner's Manual and Warranty & Service Guide (Refer to updated date).

Consult the Owner/Customer price	or to any additional work being of	carried out as an additional cost will	be charged for items n	ot covered under warranty.

Job Card No.:		Date :				Mod	lel : .										
Customer Name:		VIN : .				KM	Read	ling:									
Service Advisor	:	Autho	risation No:			Tec	hnici	an (F	Print):							
I = Inspection-afte	r inspection clean and correct, or replace as necessary		SERVICE INTERVAL every KMs (x1000)	15	30	45	60	75	90	105	120	135	150	165	180		
R = Replace A :	= Adjust T = Torque		or MONTHS, whichever occurs first	12	24	36	48	60	72	84	96	108	120	132	144		
L = Lubricate C =	: Clean		Labour hrs.	1	1	1	1	1	1	1	1	1	1	1	1	ок	NOT OK
1	Gas cylinder bracket	Mounting and bracket		1		1	1	ī		1	П	Т	1	Īī	ī		
2			tightness	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T		
3	Rubber of gas cylinder bracket	Confirm	present and not worn	I	I	Ī	1	I	I	I	T	I	1	T T	1		
4	· ·	Check for rust damages - revalidate if damaged				Т		Т			П	Т	Т	П	Т		
5	CNG cylinder valve/s	Check	for leaks / damages			Т		Т			П	Т	Т	П	Т		
6	High pressure gas pipe / leaks	Check	fitment / damage / leaks	-		1					Т	Т	-	П	ı		
7	High pressure filter	Replac	e filter when more than 5ml oil is present	1	R	1	R	- 1	R	- 1	R	- 1	R	- 1	R		
8	Low pressure filter	Replace filter		R	R	R	R	R	R	R	R	R	R	R	R		
9	Temperature sensor on regulator	Check	electrical connection / leaks	ı	-	-	ı	Ι	-	Ι	Т	- 1	- 1	- 1	-		
1	Valve solenoid on gas cylinder wiring	Check	electrical connection	-		1					Т	Т	-	П	ı		
1	1 Cylinder cover condition	Check	for installation / damages	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1:	2 Thermocouple on exhaust	Check	fitment in exhaust / electrical connection	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1;	Gas regulator	Check	fitment / damage / leaks	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1-	4 Bracket of gas regulator	Check	fitment / damage	ı		-	-	Ι		Ι	Т	-	-	-	- 1		
1:	5 Wiring of gas regulator	Check	electrical connection	-		1					Т	Т	-	П	ı		
10	6 Pressure switch on gas regulator	Check	electrical connection / leaks	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1	Fuse on supply to 24-12V converter (located at batter	y Check	not blown	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1	Bracket of ECU	Check	fitment / damage	ı	1	-	-	Ι	1	Τ	Т	-	I	Т	-		
1:	9 Wiring of ECU	Check	electrical connection	ı	Т	ı	- 1	ı	Т	Ι	Т	-	- 1	ı	ı		
2) Injector rail/injectors	Check	installation / electrical connection	1		1	-	-		-	П	-	-1	1	1		
2	1 Map sensor	Check	electrical connection / leaks	-		-	-	-		-		- 1	- 1	-	-		
2:	2 Bracket of Injector	Check	fitment / damage	I	-	1	ı	- 1	-	- 1	Ι	-	I	I	ı		
2	Wiring of injectors	Check	electrical connection	ı	-	ı	ı	Ι	-	Ι	Ι	I	I	ı	-		
2-	Leaks on injector pipes	Check	for leaks	ı		-	-	-		-	-	-	-	1			
2	5 Vehicle gas system	Check	ECU for DTCs	-	- 1	1	ı	ı	- 1	- 1	I	1	- 1	- 1	ı		

APPLICABLE FOR SERVICES FROM 195 000 kms to 360 000 kms

		7.1.2.07		OK GERVICES I ROM 133 000 kins to 300 t														
I = Inspection-a	after in	spection clean and correct, or replace as necessary		SERVICE INTERVAL every KMs (x1000)	195	210	225	240	255	270	285	300	315	330	345	360		
R = Replace	A = A	djust T = Torque		or MONTHS, whichever occurs first	12	24	36	48	60	72	84	96	108	120	132	144		
L = Lubricate	C = Cl	lean		Labour hrs.	1	1	1	1	1	1	1	1	1	1	1	1	ок	NOT OK
	1	Gas cylinder bracket	Mountir	ng and bracket	ı	-	ı	- 1	ı	1	I	ı	ı	- 1	- 1	I		
	2	Bolts of gas cylinder bracket	Check t	tightness	I/T	i												
	3	Rubber of gas cylinder bracket	Confirm	n present and not worn	ı	Ι	-	-	-		-	I	I	- 1	- 1	ı		
	4	CNG cylinder/s	Check t	for rust damages - revalidate if damaged	ı	Ι	-	-	-		-	I	I	- 1	- 1	ı		
	5	CNG cylinder valve/s	Check t	for leaks / damages	ı	-	ı	- 1	1	1	I	ı	ı	- 1	- 1	I		
	6	High pressure gas pipe / leaks	Check t	fitment / damage / leaks	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	7	High pressure filter	Replac	e filter when more than 5ml oil is present	- 1	R	-1	R	1	R	- 1	R	- 1	R	1	R		
	8	Low pressure filter	Replac	e filter	R	R	R	R	R	R	R	R	R	R	R	R		
	9	Temperature sensor on regulator	Check	electrical connection / leaks	ı	- 1	- 1	- 1	-	- 1	- 1	1	ı	- 1	- 1	- 1		
	10	Valve solenoid on gas cylinder wiring	Check	electrical connection	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	11	Cylinder cover condition	Check t	for installation / damages	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	12	Thermocouple on exhaust	Check t	fitment in exhaust / electrical connection	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	13	Gas regulator	Check t	fitment / damage / leaks	- 1		-	_	_	-	-	-	-		- 1	-		
	14	Bracket of gas regulator	Check t	fitment / damage	-	_	ı	-	-	-	- 1	- 1	ı	- 1	- 1	- 1	ĺ	
	15	Wiring of gas regulator	Check	electrical connection	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	16	Pressure switch on gas regulator	Check (electrical connection / leaks	- 1	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	- 1	- 1	i	
	17	Fuse on supply to 24-12V converter (located at battery			- 1	-	-	_	_	_	-	- 1	- 1		- 1			
	18	Bracket of ECU	Check t	fitment / damage	ı	_	_	_	_	_	-	- 1	-		- 1	-	Ĺ	
	19	Wiring of ECU	Check	electrical connection	-	_	ı	-	-	-	- 1	- 1	ı	- 1	- 1	- 1	ĺ	
	20	Injector rail/injectors	Check i	installation / electrical connection	-	_	ı	-	-	-	- 1	- 1	ı	- 1	- 1	- 1	ĺ	
	21	Map sensor	Check	electrical connection / leaks	-	I	1	-	1	I	-	ı	ı	-1	-1	-		
	22	Bracket of Injector	Check	fitment / damage	ī	T	ı	I	I	T	Τ	I	ı					
	23	Wiring of injectors	Check	electrical connection	Ī	Ī	I	ı	I	Ī	Ī	Ī	-	Ī	Ī	Ī		
	24	Leaks on injector pipes	Check	for leaks	I	Ī	I	- 1	I	Ī	Ī	I	I	Ī	I	Ī		
	25	Vehicle gas system	Check	ECU for DTCs	Ī	I	ı	1	1	I	1	Ī	1	I	I	I		

Customer Signature Date Technician Signature

June 2024

<u>Document No.</u>

CNG Dual Fuel / 15

Updated.



15,000 km or 12 Months Service Schedule CNG System - Dual Fuel Vehicle - N-series (4JJ1)



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. Consult the Owner/Customer pr	ior to any additional work being ca	arried out as an additional cost wil	I be charged for items no	ot covered under warranty.

Job Card No.:			Date :				Mod	lel : .										
Customer Nar	ne:		VIN :				KM	Read	ing:									
Service Advis	or :		Author	isation No:			Tecl	hnici	an (F	Print)):							
I = Inspection-	after in	spection clean and correct, or replace as necessary		SERVICE INTERVAL every KMs (x1000)	375	390	405	420	435	450	465	480	495	510	525	540		
R = Replace	A = A	djust T = Torque		or MONTHS, whichever occurs first	12	24	36	48	60	72	84	96	108	120	132	144		
·		•		, , , , , , , , , , , , , , , , , , ,						_					_			NOT
L = Lubricate				Labour hrs.	1	1	1	1	1	1	1	1	1	1	1	1	ок	ок
		Gas cylinder bracket	Mounting and bracket		- 1	- 1	- 1	- 1	- 1	-	ı		-	-	-	- 1		
	2	Bolts of gas cylinder bracket	Check t	ightness	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T	I/T		
	3	Rubber of gas cylinder bracket	Confirm	Confirm present and not worn			-		_	_	- 1	_	_	-	_			
	4	CNG cylinder/s	Check for rust damages - revalidate if damaged		- 1	- 1	- 1	- 1	-	-	- 1		-	-	-	-		
	5	CNG cylinder valve/s	Check f	or leaks / damages	- 1		- 1		I	1	1		-	1	1	- 1		
	6	High pressure gas pipe / leaks	Check f	itment / damage / leaks	-	-	-	-	- 1	-	-		-		-	- 1		
	7	High pressure filter	Replac	e filter when more than 5ml oil is present	- 1	R	- 1	R	- 1	R	- 1	R	- 1	R	_	R		
	8	Low pressure filter	Replac	e filter	R	R	R	R	R	R	R	R	R	R	R	R		
	9	Temperature sensor on regulator	Check electrical connection / leaks		Т		1		1	Т	Т			Т	Т	1		
	10	Valve solenoid on gas cylinder wiring	Check 6	electrical connection	$\overline{}$		П			Т		П						
	11	Cylinder cover condition	Check f	or installation / damages		1	Т		1			П						
		Thermocouple on exhaust		itment in exhaust / electrical connection	Ť	Ì	Ī	i	Ť	i	i	Ť	i	Ť	i	Ì		
		Gas regulator		itment / damage / leaks	÷	Ė	Ė	Ť	÷	Ė	Ť	Ť	Ė	Ė	Ė	÷		
		Bracket of gas regulator		itment / damage	÷	Ė	Ė	i	i	Ė	Ť	Ė	Ė	Ė	Ė	Ė		
		Wiring of gas regulator		electrical connection	Ť		Ť	i	i	Ť	Ť	$\dot{}$		Ė	Ť			
		Pressure switch on gas regulator	Check e	electrical connection / leaks	Ť	i	İ	Ť	Ť	Ť	Ť	Ť	i	Ť	Ť	Ť		
		Fuse on supply to 24-12V converter (located at battery			÷	Ė	Ė	Ť	÷	Ė	Ť	Ť	Ė	Ė	Ė	÷		
		Bracket of ECU		itment / damage	÷	Ė	Ė	i	i	Ė	Ť	Ė	Ė	Ė	Ė	÷		
		Wiring of ECU		electrical connection	÷	H	i	i	÷	÷	Ė	Ė	Ė	÷	÷	Ė		
		Injector rail/injectors		nstallation / electrical connection	÷	Ė	Ė	i	i	Ė	Ť	Ė	Ė	Ė	Ė	÷		
		Map sensor		electrical connection / leaks	÷	Ė	i	i	÷	÷	i	÷	÷	Ė	÷	÷		
		Bracket of Injector		itment / damage	÷	÷	÷	÷	÷	÷	÷	H	÷	÷	÷	÷		
		Wiring of injectors		electrical connection	÷	H		÷	H	H	H	H	H	÷	H	H		
		Leaks on injector pipes	Check f		÷	H	+	÷	H	+	÷	H	H	H	H	H		
		Vehicle gas system		ECU for DTCs	÷	H	-	-	H	H	H	H	H	H	H	H		
	25	venicie gas system	CHECK	-CO 101 D1 C8		ш_												

APPLICABLE FOR SERVICES FROM 555 000 kms to 720 000 kms

I = Inspection-afte	er inspection clean and correct, or replace as necessary		SERVICE INTERVAL every KMs (x1000)	555	570	585	600	615	630	645	660	675	690	705	720		
R = Replace A	= Adjust T = Torque		or MONTHS, whichever occurs first	12	24	36	48	60	72	84	96	108	120	132	144		
L = Lubricate C =	= Clean		Labour hrs.	1	1	1	1	1	1	1	1	1	1	1	1	ок	NOT OK
1	Gas cylinder bracket	Mountir	ng and bracket	- 1		-	-	ı	1	1	ı	I	I	1	ı		
2	Bolts of gas cylinder bracket	Check t	ightness	I/T													
3	Rubber of gas cylinder bracket	Confirm	present and not worn	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
4	CNG cylinder/s	Check t	heck for rust damages - revalidate if damaged			- 1	- 1	- 1	-	- 1	- 1	- 1	- 1	- 1	- 1		
Ę	CNG cylinder valve/s	Check t	Check for leaks / damages			-	-	ı	1	1	ı	I	I	1	ı		
6	High pressure gas pipe / leaks	Check t	itment / damage / leaks	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
7	7 High pressure filter	Replac	e filter when more than 5ml oil is present	- 1	R		R	1	R	- 1	R	- 1	R	- 1	R		
8	B Low pressure filter	Replac	e filter	R	R	R	R	R	R	R	R	R	R	R	R		
9	Temperature sensor on regulator	Check	electrical connection / leaks					-	-		- 1	-		- 1	-		
1	0 Valve solenoid on gas cylinder wiring	Check	electrical connection	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
1	1 Cylinder cover condition	Check t	or installation / damages	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
1.	2 Thermocouple on exhaust	Check t	Check fitment in exhaust / electrical connection			-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
1	3 Gas regulator		Check fitment / damage / leaks					-	-		- 1	-		- 1	-		
1-	4 Bracket of gas regulator	Check 1	itment / damage	-	_	_	_	-	-	- 1	- 1	- 1	- 1	ı	- 1		
1	5 Wiring of gas regulator	Check	electrical connection	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
1	6 Pressure switch on gas regulator	Check	electrical connection / leaks	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
1	7 Fuse on supply to 24-12V converter (located at battery	Check I	not blown	-		-	- 1	-	_	-	- 1	- 1	- 1	- 1	- 1		
1	8 Bracket of ECU	Check t	fitment / damage	-	_	_	-	-	_	-	- 1	- 1	-	- 1	- 1		
1	9 Wiring of ECU	Check	electrical connection	-	_	_	_	-	-	- 1	- 1	- 1	- 1	ı	- 1		
2	0 Injector rail/injectors	Check i	nstallation / electrical connection	- 1		-	- 1	- 1	-	-	- 1	- 1	-1	- 1	- 1		
2	1 Map sensor	Check	electrical connection / leaks		Ī	Ī	I	I	Ī	Ī	I	Ī	- [I	I		
2	2 Bracket of Injector		itment / damage		Ī	Ī	Ī	Ī	Ī	Ī	I	Ī	-	I	Ī		
2	3 Wiring of injectors	Check	electrical connection	Ī	Ī	Ī	Ī	I	Ī	Ī	Ī	Ī	- [Ī	Ī		
2	4 Leaks on injector pipes		or leaks	Ī	Ī	Ī	Ī	I	Ī	Ī	Ī	Ī	- [Ī	Ī		
2	5 Vehicle gas system	Check	ECU for DTCs	Т	Т	Τ	Ι	Ι	T	T	-	Π	-	Π	П		

Date Customer Signature **Technician Signature**

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Updated.