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# **TATA TIAGO AND TIGOR CNG**

## **SUPPLEMENT**

**(This manual should be read in conjunction with  
Tiago BSVI or Tigor BSVI Owner's Manual )**

**Part no. 542458409913**

**TATA MOTORS**

**Rev02 / Jan-23**

## SUPPLEMENT FOR CNG

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### 1. INTRODUCTION TO CNG

CNG (COMPRESSED NATURAL GAS) is principally constituted of Methane. CNG is a colorless, odourless and non-toxic gas. But, it is inflammable and lighter than air. Due to its low density, CNG is compressed to up to around 200 bar to increase storage capacity. CNG has the following benefits.

#### Benefits of CNG

- CNG is a clean burning fuel and has lesser tail pipe emissions than compared to gasoline.
- CNG offers lower running and maintenance costs compared to gasoline.
- CNG does not contaminate and dilute the crankcase oil during combustion and hence oil in the engine does not lose its properties which can lead to early wear and tear of engine parts.

#### WARNING

- In case of any symptom of CNG leakage, releasing noise, or external damage to CNG pipe/components during an accident, do not panic.
- Stop the vehicle, switch off the engine and open all doors. Close the CNG cylinder manual shut off knob located on the cylinder valve.
- Do not run the vehicle; even in petrol mode.
- Contact the nearest TATA MOTORS authorised service centre immediately for further assistance.

### 2. SAFETY PRECAUTIONS

To get the best out of CNG fuel, the vehicle must be serviced as per the service interval given in this manual.

#### DO'S

- Always get the car repaired / serviced at TATA authorized service centre only.

#### NOTE

- *In case of gas leakage in the low pressure circuit (Regulator to CNG Rail), ECU will automatically switch the fuel mode from CNG to Petrol. The ECU will not allow you to switch to CNG mode until the leakage is rectified.*
- *Leakage in high-pressure line from CNG Tank to High-pressure regulator will not be monitored/detected.*
- Remove the CNG tank during any welding / brazing work on the Car. This has to be done by TATA MOTORS authorised Service Centre only.

## SUPPLEMENT FOR CNG

### NOTE

*Ensure that your car has sufficient petrol in the tank as petrol is used starting in CNG operation to keep both the systems in healthy condition.*

- Keep the car away from any Fire source.
- Switch Off engine while fuel filling CNG or Petrol.

### NOTE

*After refilling CNG, ensure that the Fuel Flap is properly shut (Otherwise vehicle cannot be started).*

- If the vehicle doesn't change over to CNG mode when the changeover switch is pressed,
  - a. Ensure that the manual valve on CNG cylinder is open.
  - b. Check CNG Level on instrument cluster.

If both conditions are ok, and the car is still not changing over to CNG, have your vehicle checked by TATA MOTORS Authorised Service Centre.

- Test the cylinder every three years (or as specified by the government) from the last date of testing/retesting of the cylinder by authorised cylinder testing agency.

### DONT'S

- Do not install an LPG, Propane or any other cylinder in place of CNG cylinder. It is illegal and unsafe.
- Never fill CNG cylinder with air, LPG or any fuel except CNG.
- Never alter CNG system configuration. Do not adjust / tamper CNG system settings.
- Never place inflammable explosive, corrosive material or sharp objects near CNG cylinder.

- Don't smoke inside or near the CNG vehicle
- DO NOT over fill the CNG tank beyond its capacity. Over filling the CNG cylinder can cause safety issues like gas leakage.
- Do not use high pressure washer fluid / water jets at electrical devices & their connectors during washing.
- Do not try to start your vehicle, in case you suspect any CNG leak.
- Do not drive your vehicle in case of CNG leakage. CNG is inflammable and highly explosive. This may lead to serious injury.
- The CNG cylinder assembly should not be repaired, under any circumstance. In case of any problem contact nearest TATA MOTORS Authorised Centre.
- Do not change the colour of the CNG cylinder.

- No flammable material should be stored in the close vicinity of the CNG cylinder.
- Never use naked flame / fire for checking gas leakage.
- Do not press the accelerator pedal while changing over from petrol to CNG mode.
- Do not turn 'OFF' cylinder valve when vehicle is running on CNG mode.
- Never attempt to carry out any repair work or tamper with the CNG components on your own or by any unauthorized personnel.

### 3. STARTING THE ENGINE

#### NOTE

- *Engine can start either in CNG mode or in petrol mode*
- *By default, when the vehicle is started in CNG mode, the vehicle starts on gasoline and then changes over to CNG when the set conditions are met.*
- To start, turn the ignition key to "IGN" position. Ensure that all the tell tales should glow for initial 3 seconds.
- Select the desired fuel operating mode by pressing the Fuel Selector Switch.
- Keep the clutch pedal fully pressed and crank the engine. DO not press the accelerator pedal.
- If the engine cranks but fails to start then repeat the above procedure. Release the key as soon as the engine starts. Ensure that the "MIL" and 'SIL' lamps are "OFF". The CNG

indicator lamp will be ON, if the car is running on CNG mode.

- Ensure that your car has sufficient petrol in the tank as petrol is used intermittently during operation for keeping both the systems in healthy condition.

#### NOTE

- *Irrespective of the position of the fuel selector switch (Petrol or CNG), your car's engine will start using petrol based on the programmed warming up condition and later switch over automatically to CNG (if CNG mode is selected).*
- *Ensure that your car has sufficient petrol in the tank as petrol is used for starting until the engine warms up.*
- *Ensure that you run your car in "PETROL" mode for at least 10kms for every 300kms covered in "CNG" mode to ensure proper working of petrol fuel supply system.*

## SUPPLEMENT FOR CNG

### 4. FUEL MODES

There are two fuel modes in the vehicle, one for petrol and the other for CNG. Desired fuel to operate can be selected using the selector switch which is located on the dash-board.



#### A. Petrol to CNG mode

You can shift to CNG fuel mode by pressing the fuel selector switch. The “CNG” lamp on the instrument cluster starts flashing during the changeover to CNG mode and glows permanently after changing to CNG mode indicating that the car is running on CNG.

#### B. CNG to Petrol mode

Similarly you can switch to PETROL fuel mode by pressing the fuel selector switch. After successful transition to PETROL mode, the green “CNG” lamp goes OFF. This indicates that the car is running on petrol.



### NOTE

- *Your Engine can start in Petrol mode only irrespective of the position of Fuel Selector Switch (Petrol or CNG)*
- *The Switch convert Engine Fuel Supply from Petrol Fuel to CNG Fuel and Vice versa when Press switch LED turns On when Engine Fuel Supply is from CNG Fuel Switch LED indicator turns Off When Engine Fuel Supply is from Petrol Fuel.*

### CNG Lamp

This lamp glows when you select the CNG fuel mode. This lamp will not glow when you select petrol fuel mode.

### Important points

- In case of fuel mode switching from PETROL to CNG mode during normal running, initially the CNG lamp toggles indicating the transition and

when the CNG lamp glows permanently, this indicates the completion of the transition to the required fuel mode.

- Fast flashing of the ‘CNG’ lamp on instrument cluster indicates the fault in CNG system. Car will automatically switch to Petrol mode. Get the car checked / repaired at the nearest Authorized TATA service center.
- Very Slow flashing of the ‘CNG’ lamp indicates the empty tank / NO CNG supply (loss of pressure). Get the CNG tank refilled.

## 5. INSTRUMENT CLUSTER



1. Speedometer

2. Set

3. Petrol Fuel Gauge

4. CNG Fuel Gauge

5. Tachometer



6. Mode

**NOTE:** All indicators shown may not be applicable to the vehicle. Above image is only for reference.

## SUPPLEMENT FOR CNG

### A. Petrol fuel gauge



- When the ignition switch is in “ON” position, Petrol fuel LED gives an approximate indication of the amount of Petrol fuel in the Petrol fuel tank. “F” stands for full and “E” stands for Empty.
- When Petrol fuel in the Petrol tank is near to empty position, Petrol low fuel warning telltale  turns ON. Refill the Petrol tank as soon as possible.
- If Petrol fuel is not filled even after Petrol Low fuel-warning telltale  ON, then First bar in Petrol fuel gauge will start blinking to indicate more severe Petrol low fuel warning.

#### NOTE

- The On inclines or curves, the Petrol fuel gauge may fluctuate or the 1st bar may blink or Petrol low fuel telltale may turn ON earlier than actual due to the movement of fuel in the tank.
- On inclines, curves, braking and sudden acceleration due to the movement of Petrol fuel in the Petrol tank, the Petrol fuel level display may fluctuate or the Petrol low fuel level warning lamp may illuminate earlier than usual. Always check the Petrol fuel level when the vehicle is on level road.
- When the ignition switch is in the “ON” position, this gauge gives an approximate indication of the amount of Petrol fuel in the Petrol fuel tank and it takes few seconds to stabilize after the ignition is turned ON.

#### WARNING

- Running the Petrol fuel tank too low or empty can cause engine to stall and could endanger User and passengers. User must stop and obtain additional Petrol fuel as soon as possible after Petrol low fuel warning telltale turns ON.
- Do not continue adding Petrol fuel after the automatic shut off function is operated if it is equipped on the Petrol fuel pump. The sensor in the Petrol fuel tank may misjudge the amount of Petrol fuel remaining.
- Petrol Low fuel warning symbol shall blink if there is any fault in the system. Take vehicle to the Tata Motors authorized service station if the symbol starts blinking.



## SUPPLEMENT FOR CNG

### B. CNG fuel gauge



When the ignition switch is in “ON” position, CNG fuel LED gives an approximate indication of the amount of CNG fuel in the CNG Cylinder. “F” stands for full and “E” stands for Empty.

When CNG fuel in the CNG Cylinder is near to empty position, CNG low fuel Text warning and Chime turns ON for 4 Seconds. Refill the CNG Cylinder as soon as possible.

If CNG fuel is not filled even after CNG Low fuel Text warning and Chime, then First bar in CNG fuel gauge will start blinking to indicate more severe CNG low fuel warning.

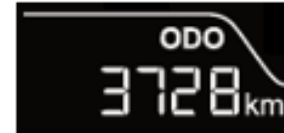
#### NOTE

*When the ignition switch is in the “ON” position, this gauge gives an approximate indication of the amount of CNG fuel in the CNG Cylinder and it takes few seconds to stabilize after the ignition is turned ON.*

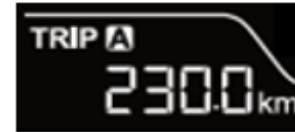
#### WARNING

- When Running the CNG fuel tank too low or empty can cause engine to stall and could endanger User and passengers. User must stop and obtain additional CNG fuel as soon as possible after CNG low fuel Text warning and Chime turns ON.
- CNG Indicator symbol shall blink if there is any fault in the CNG system. Take vehicle to the Tata Motors authorized service station if the symbol starts blinking.

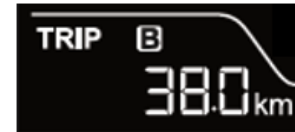
### C. Multifunctional LCD, Odometer, Trip meter and Dimmer



Odometer



Trip meter A



Trip meter B

The odometer records the total distance the car have been driven. The trip meter can be used to measure the distance travelled on each trip or between fuel fillings.

## SUPPLEMENT FOR CNG

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LCD has two line display. The first line displays the Odometer count. The second line displays either of Trip meter A, Trip meter B and Intensity level of panel illumination.

The selection and control of functions are done through 'MODE' and 'SET' pushbuttons (knobs) provided on either side of the LCD.

The 'MODE' knob is used to select one of Trip meter A, Trip meter B or Intensity level of panel illumination. Switching among the above functions can be done by pressing the MODE knob.




### D. Audio Reminder

#### CNG Low Fuel Chime

CNG Low Fuel Chime will Turn ON for 4 Seconds to alert User about CNG Low Fuel in CNG Cylinder under following condition,

- When CNG Fuel Bar State changes from 2nd Bar to 1st Bar OR 1st Bar to 1st Bar Blink.
- When Engine Fuel Mode is change from CNG to Petrol during 1st Bar Blinking in CNG Fuel Gauge.
- During IGN ON, if Petrol Low Fuel Tell tale is ON and 1st Bar Blinking in CNG Fuel Gauge.

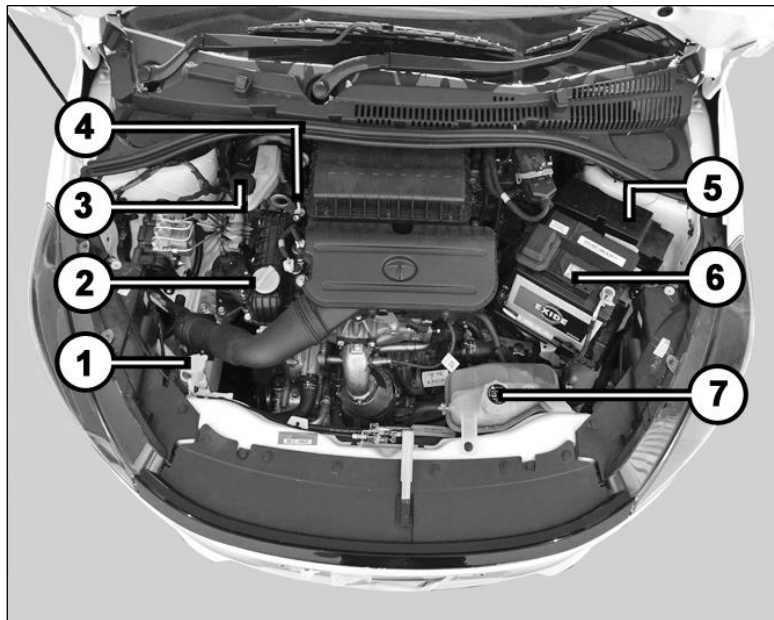
**E. Driver Information System**

Driver Information	System Image	Description
CNG mode active		CNG MODE ACTIVE” text warning comes ‘ON’ for 4 seconds when CNG Fuel Mode is selected.
Close fuel lid		CLOSE FUEL LID” text warning comes ‘ON’ when Fuel Lid is open.
CNG low fuel		CNG LOW FUEL” text warning comes ‘ON’ for 4 seconds when CNG fuel level is low

## SUPPLEMENT FOR CNG

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### 6. ENGINE COMPARTMENT



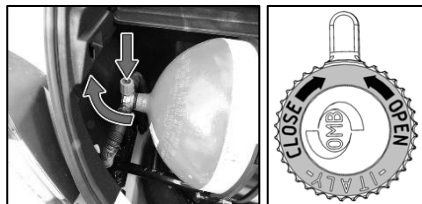
- 1. Windshield Washer Filling Cap
- 2. Engine Oil Filler Cap
- 3. Brake fluid reservoir

- 4. Dip Stick - Engine Oil
- 5. Fuse & relay box
- 6. Battery

- 7. Auxiliary tank

## 7. CYLINDER MANUAL SHUT OFF VALVE / KNOB

A manual shut OFF knob is fitted to cylinder valve. Cylinder valve is mounted on CNG cylinder.



### Manual shut OFF Knob Operation

CNG supply can be cut OFF by closing the manual shut OFF valve / knob.

Instructions on knob operation is given on the label which is affixed on the cylinder

**Valve Closing:** Turn the knob completely in clockwise direction to close the CNG supply to Engine.

**Valve Opening :** Turn the knob completely in anti-clock- wise direction to open the CNG supply to Engine.

### WARNING

- Never remove the cylinder valve from the cylinder assembly, for any assistance, contact authorised TATA MOTORS service centre.
- Always ensure that, once the cylinder valve is removed from the cylinders, it should not be reused.
- Even if the CNG from cylinder is consumed till the engine stops, some amount of CNG will be left out in the tank under pressure.
- Always keep the manual valve in closed position when the vehicle is parked in confined and / or closed parking space like a basement parking.

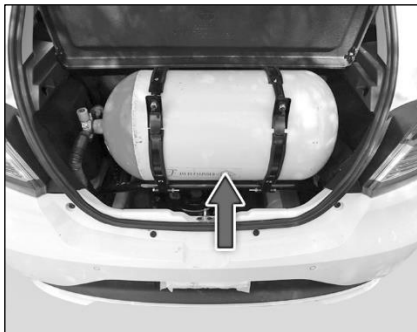
### NOTE

- If the manual shut OFF valve / knob is in closed condition, it is not possible to fill CNG into the cylinder.
- If the manual shut OFF valve / knob is not opened fully, then the Engine may not run properly.

## SUPPLEMENT FOR CNG

### 8. CNG CYLINDER

The CNG cylinders are located in luggage compartment. CNG is stored in a high pressure of 200 bar.



CNG cylinder in luggage compartment

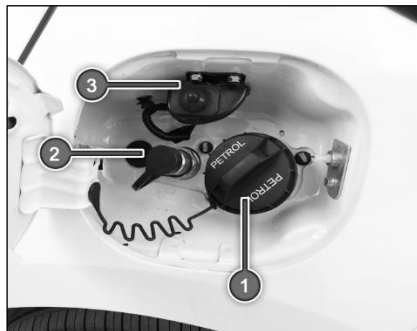
### CNG cylinder testing station

Refer below link for the list of approved CNG cylinder testing station

<https://peso.gov.in/web/approved-cng-cylinders-testing-station>

### 9. CNG FILLER VALVE

CNG filler valve is used to fill CNG in the cylinder. It is fitted near petrol filling location. CNG should be filled by CNG filling gun at filling station. Fillings automatically cuts off when the cylinder pressure reaches the CNG filling station dispenser pressure.



1. Petrol Filler Cap

2. CNG Filler Cap

3. Fuel flap switch

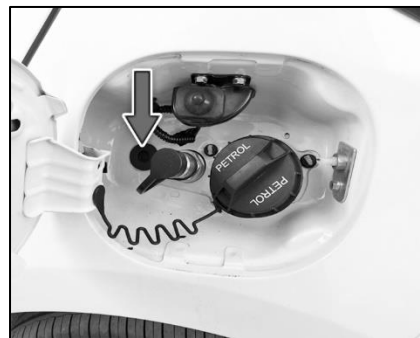
CNG tank capacity: 60 liters of Water capacity

### NOTE

- Keep the Ignition switch in "OFF" condition during CNG refilling.
- Do not use your mobile phones when you are at a Filling station.

### Filling Procedure

- Open the Fuel flap lid.
- Remove the receptacle dust can by pulling it off the receptacle gently.



- Now CNG filling gun at the CNG filling station can be docked on to the receptacle.
- After filling is completed, make sure that the dust cap is put back in place and close the fuel flap lid properly.

### NOTE

- *Fascia switch CNG function Green LED blinks when fuel flap is open & vehicle will not start until fuel flap not close properly.*
- *If fuel flap is open CNG function green LED on fascia switch will continuously blink along with test message 'Close the fuel lid' on cluster will display until fuel flap not closed properly.*
- *Vehicle do not start until fuel flap not closed properly.*

### CNG Warning Label

A CNG warning label / safety instruction label is affixed on the front windshield glass.

### 10. SAFETY REGULATION: FIRE EXTINGUISHER

A fire extinguisher is provided near front passenger seat.

Method of operation:

- Check if the pressure gauge needle in green zone.
- Hold upright, pull the pin and press the lever.
- Direct discharge at base of flame with rapid sweeping motion.

### Maintenance

Check pressure on the gauge every week, needle should remain in green region. If it comes to red region, please send for recharging. The Fire Extinguisher is to be refilled every three years even if it is not used

### Location of Fire Extinguisher



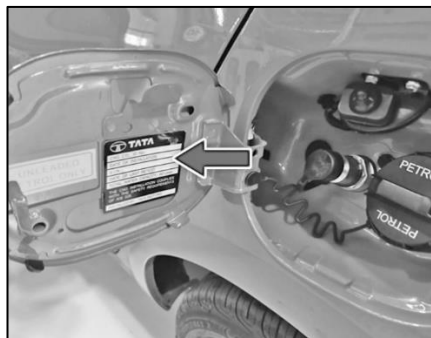
Near of front passenger seat

## SUPPLEMENT FOR CNG

### 11. CNG COMPLIANCE PLATE

Compliance plate is fitted near to filler valve with CNG kit identification and installation details.

CNG cylinder needs to be recertified every three years (or as per latest government notification) as per CMVR. Please ensure that it is done by Authorized Service centre and the new date is engrave on the plate.



Compliance Plate

### 12. IN CASE OF BLOWN FUSE

Your car's CNG system is protected against short circuit / overload by a fuse (15A) fitted in the fuse box.

#### To replace a blown fuse:

- Open fuse box cover.
- Identify blown fuse from its melted wire.
- Remove the blown fuse and replace with one of similar amperage.

Take your car to a TATA Authorized service centre to find out the reason for the fuse to blow & repair the problem.

#### NOTE

*Fuse replacement should preferably be done only at TATA Authorized service centre.*

When the fuse blows OFF, the following may occur:

- If your car is running in CNG mode when fuse blows OFF, the CNG system will shut down and will automatically shift to Petrol mode.
- In such a case, you can start the car only in Petrol mode
- If your car is running in Petrol mode when fuse blows OFF it will keep running in the Petrol mode.

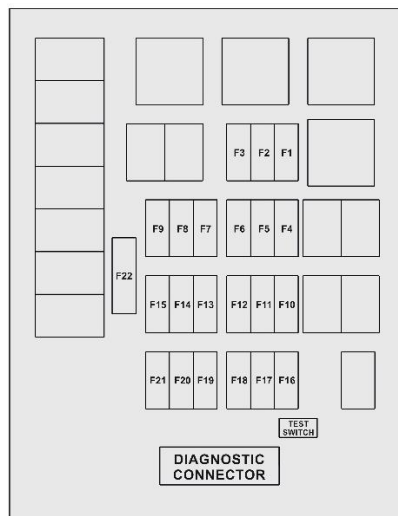
#### WARNING

Always replace blown fuse with a fuse of correct amperage. Never use a substitute like aluminium coil or wire to replace a blown fuse. When you replace a fuse and the new fuse also blows OFF instantly, have the car inspected at a TATA authorized service centre.



### 13. FUSE BOX

#### i. CABIN



SN	Function	Fuse Rating
1	RESTRAINTS CONTROL MODULE	10A
2	ACC CONN 2/OBD	15A
3	ITS	15A
4	BODY CONTROL MODULE	20A

5	-	-
6	MIRROR ADJUST MOTOR	5A
7	BODY CONTROL MODULE	20A
8	CLUSTER	5A
9	BODY CONTROL MODULE	20A
10	KEY IN/PEPS/BLOWER RLY	5A
11	EPAS	5A/15A
12	ACCESSORIES FUSE /POWER SOCKET FLOOR	5A
13	BLOWER MOTOR	30A
14	CDL/ACC-1	15A
15	PDC IGN SUPPLY	5A
16	RELAY COILS / PEPS	5A/10A
17	TAILGATE LATCH	10A
18	HVAC/FATC	10A
19	HEATED REAR SCREEN	25A
20	MODULE KL.15 I/P	10A
21	POWER SKT CONSOLE	15A
22	TRANSIST / INFOTAINMENT	15A

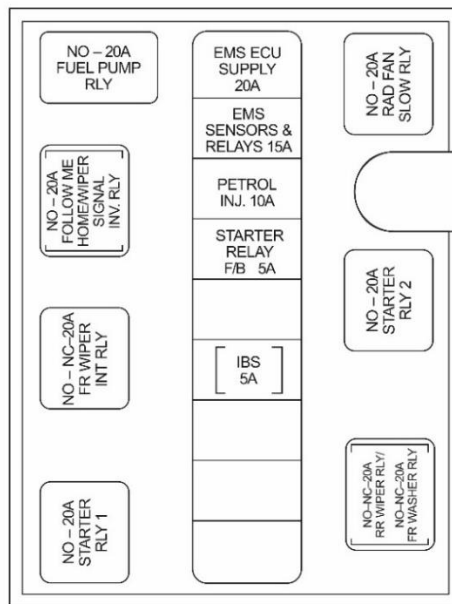


## SUPPLEMENT FOR CNG

SN	Function	Fuse Rating
1	INTERIOR F/B 2 IGNITION	60A
2	ABS	40A
3	-	-
4	COOLING FAN /PWM	40A
5	EPAS	60A
6	-	-
7	INTERIOR F/B 1 BATTERY	60A
8	UNDER BONNET F/R box	30A
9	-	-
10	IGNITION LOAD	60A
11	-	-
12	COMPRESSOR	10A
13	STARTER SOLONOID	25A
14	ABS ECU	25A
15	HEAD LAMP LOW	15A
16	HORN HIGH / LOW TONE	15A
17	-	-
18	EMS BATTERY	10A
19	HEAD LAMP HIGH	15A
20	FUEL PUMP	15A

21	BRAKE LAMP	10A
22	RELAY COILS	5A
23	CNG INJECTOR	10A
24	FRONT WIPER MOTOR	20A
25	ABS	5A
26	CNG PRESSURE REGULATOR	5A
27	-	-
28	REVERSE & BRAKE LAMP	10A
29	REAR WIPER	10A
30	-	-
31	-	-
34	-	-
38	EMS ECU SUPPLY	20A
39	EMS SENSORS & REPLY	15A
40	PETROL INJECTOR	10A
41	STARTER RELAY FEEDBACK	5A
42	-	-
43	-	-
44		
45		
46		

## SUPPLEMENT FOR CNG



**14. Tyre Pressure****Recommended Tyre Pressures**

<b>Tyre size</b>	<b>Front (psi/bar)</b>	<b>Rear (psi/bar)</b>	<b>Spare</b>
175/65 R14	33 / 2.28	36 / 2.48	36 / 2.48
155/80 R13	NA	NA	36 / 2.48

**NOTE**

- *Maintain tyre inflation pressure as per the specific mentioned in tyre pressure sticker.*
- *Regular tyre and spare tyre to be checked for correct tyre inflation pressure at least once a month.*

## SUPPLEMENT FOR CNG

### 15.SPARE WHEEL REMOVAL

#### For Tiago

- Fold the rear seat vertical rest to access the spare wheel.



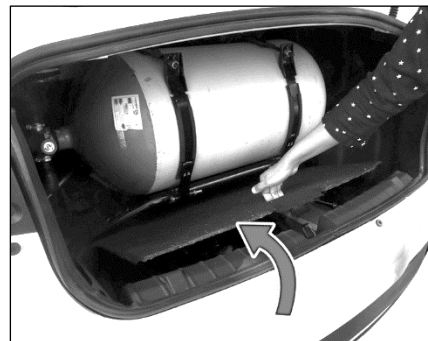
- Unscrew spare wheel mounting nut.



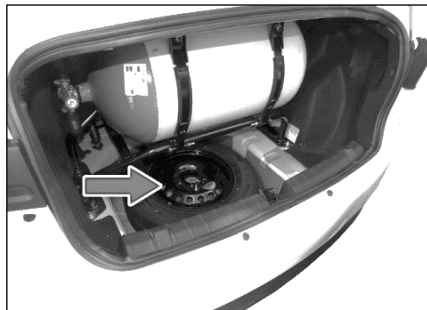
- Once this nut is removed, lift spare wheel & tilt towards seat side to rest the tyre on seat.
- Tilt the seat vertical rest in inclined position.
- Take out the spare wheel outside.

#### For Tigor

- Take out the Warning Triangle.
- Pull out the Spare wheel cover.



- Unscrew spare wheel mounting nut.

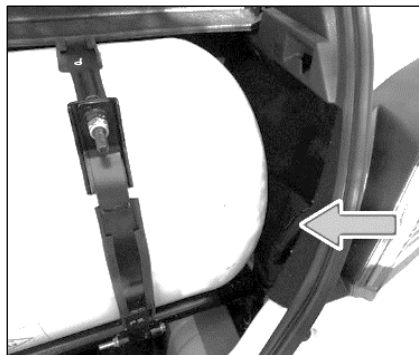


**16.Tool kit**  
**Tiago Toolkit location**

- Once this nut is removed, the wheel can be lifted and taken out.

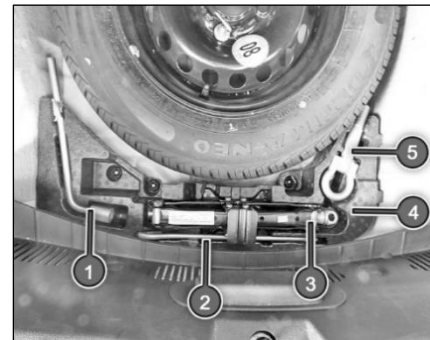
### NOTE

- Always use only the recommended size of wheel rims & tyres. Use of non-recommended rims and tyres may have an adverse effect on car safety.
- Once the spare wheel is repaired and is ready to be refitted, keep the direction of the air filling nozzle outwards for easy air filling.



**Near CNG cylinder**

**Tigor Toolkit location**



**Near spare wheel**

1. Wheel spanner
2. Jack handle
3. Jack
4. Tool tray
5. Tow hook

## SUPPLEMENT FOR CNG

### 17. TECHNICAL SPECIFICATIONS

Parameter	Petrol
<b>Engine (Bi-Fuel :Petrol +CNG)</b>	
Model	1.2L REVOTRON
Type	Bifuel CNG , 4 Stroke MPFI, inline 3 cylinder with 4 valves per cylinder
No. of cylinders	3
Bore X Stroke	77 mm x 85.8 mm
Capacity	1199 cc
Max. Engine output CNG Mode	73 Ps @ 6000 RPM
Max. Torque CNG Mode	95 Nm @ 3500+ /-100 RPM
Compression ratio	(11.3 +/- 0.3) :1
Firing order	1-3-2
Oil capacity	3.5L
Emission compliance	Bharat Stage VI
Cooling system capacity	4L ( Water + Coolant )



## SUPPLEMENT FOR CNG

Electrical system	
System voltage	12 Volts (-ve earth)
Alternator capacity	110 Amp
Battery	12V, 40Ah
Fuel tank Capacity	
Fuel Tank Capacity	60 Litres of Water Capacity

## SUPPLEMENT FOR CNG

### 18. PRELIMINARY TROUBLE SHOOTING

These tips are given for your guidance. These preliminary checks can be carried out in an emergency. In normal cases the problems should be attended to in a Tata Motors Authorized Service outlet by following the repair procedures given in the Workshop Manual.

SN	PROBLEM OBSERVED	PROBLEM CAUSE	ACTION TO BE TAKEN
1	Engine does not start	Fuel Flap Open	Close Fuel Flap
2	Engine cranks but does not start - CNG Mode	No CNG	Refill CNG
		Fuel Flap Open	Close Fuel Flap
		CNG filter / fuel lines choked	Get CNG filter replaced at TATA authorised service centre
		CNG Regulator solenoid not operating	Contact TATA MOTORS authorised service centre
		Error logged in ECU	Contact TATA MOTORS authorised service centre
3	MIL / SIL are ON / blinking continuous, even after start.	Fault(s) are detected by ECU	Get the vehicle checked and rectified at TATA MOTORS authorised service centre.

**SUPPLEMENT FOR CNG**

SN	PROBLEM OBSERVED	PROBLEM CAUSE	ACTION TO BE TAKEN
4	Vehicle doesn't change over to CNG mode when change over switch is pressed	Manual shut off valve on cylinder closed	Open Manual Shut off Valve
		Check CNG Level on instrument cluster.	Refill CNG if level shows empty.
		Both conditions are ok, and the car is still not changing over to CNG	Have your vehicle checked by TATA MOTORS Authorised Service Centre.

## SUPPLEMENT FOR CNG

### 19.SERVICE SCHEDULE

SN	OPERATION Note: Frequency is Marked in Kms # - To Be Done Earlier As Per Months If Kms Covered Is Less	Frequency	PDI	1500	7500	15000	22500	30000	37500	45000	52500	60000	67500	75000	82500	90000	97500	105000	112500	120000	127500	135000	142500	150000
		# Months	0	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
1	Check all joints in low pressure & High Pressure line, CNG rail and hoses for leakage	15K/12M				•		•		•		•		•		•		•		•		•		•
2	Check Solenoid Valve Check solenoid valve operation of pressure regulator and ensure regulator vacuum port is not blocked.	15K/12M				•		•		•		•		•		•		•		•		•		•
3	Check Mountings of filler valve, Sensor, Regulator assembly, Cylinder Cradle.	15K/12M				•		•		•		•		•		•		•		•		•		•
4	Replace the filter cartridge and O-Rings, drain oil from filter body	30K/36M								•						•						•		
5	Replace the filler valve O-ring.	15K/12M				•		•		•		•		•		•		•		•		•		•
6	Check DTC if any	15K/12M				•		•		•		•		•		•		•		•		•		•
7	Recertification of Tank / Cylinder. (As per present Government norms.)	Every 3 years								•						•						•		

**Note:** This Service schedule is in addition to existing main Schedule of respective vehicle.

Frequency is marked in kms

# - Kms or months whichever occurs earlier