**CAR IDENTIFICATION RECORD**

OWNER'S NAME : _____

ADDRESS: _____

SELLING DEALER CODE : _____

DATE OF DELIVERY : _____

DATE OF REGISTRATION : _____

REGISTRATION NO : _____

MOTOR NO : _____

CHASSIS NO : _____

TRANSAXLE NO : _____

AUX. BATTERY MAKE : _____

AUX.BATTERY SR. NO : _____

AUX. BATTERY CODE : _____

KEY NO.: _____

**THE WARRANTY ON THIS VEHICLE IS VALID ONLY IF THE DETAILS ARE FILLED, SIGNED AND STAMPED BY THE SELLING DEALER**

**DEALER'S SIGNATURE AND STAMP**

# NEXON EV

## OWNER'S MANUAL (IB)

TATA MOTORS

REV 00 / JUNE 2025

Dear Customer,

Welcome to the TATA MOTORS family,

Thank you on the purchase of TATA MOTORS vehicle.

As a global Indian automobile manufacturer, we focus on innovation, technology and build high quality products with exceeding values of “Connecting Aspirations”.

The Owner’s Manual will familiarize you with the operations, equipment description, features that are either as standard or optional on your vehicle. It is requested you read this manual carefully and follow the instructions and recommendations as mentioned.

You are advised to carry out service, maintenance and repairs at TATA MOTORS EV Dealers and EV Authorized service centers through out the life of your vehicle. Always use genuine parts for continued performance of your vehicle. Avoid modification, non-genuine accessories fitment on your vehicle. TATA MOTORS does not carry any liability arising due to it. Always keep this manual in the vehicle.

Information provided in this Owner’s Manual is explicit at the time of publication. However, as TATA MOTORS continues to make changes and improve products, it reserves the right to make changes in this manual or any product at any time, without notice and without any obligations.

We look forward for your continued association with us for many years to come.

Wishing you a Safe and pleasant driving experience.

**TATA PASSENGER ELECTRIC MOBILITY LTD.**

Floor 3, 4, Plot-18, Nanavati Mahalaya,Mudhana Shetty Marg, BSE, Fort,

Mumbai, (MH) - 400 001, India

## EV OVERVIEW

An electric vehicle is powered by a battery - Edrive and it does not need any type of fossil fuel. While conventional vehicles use an internal combustion engine and gasoline or diesel as fuel, electric vehicles use electrical energy that is stored inside the high voltage battery. As a result, electric vehicles run on electricity, they are eco-friendly - they do not require fuel and are zero emission vehicles.

### Review and Characteristics

This is an electric vehicle. Some of the vehicle's systems operate differently and have different operating characteristics than vehicles equipped with an internal combustion engine. It is important to carefully read the entire Owner's Manual for this reason.

This Vehicle uses two types of battery systems- a high voltage system in which a high voltage battery powers the inverter and electric motor which in turn propel the vehicle and a low voltage system in which a 12-volt battery provides power to the vehicle systems and features such as the audio system, supplementary restraint systems, headlights and windshield wipers. The high voltage battery also charges the 12-volt battery.

The high voltage battery must be charged with electricity before the vehicle can be driven. As the vehicle operates, the battery gradually discharges and when completely discharged, the vehicle needs to be plugged in for charging. To increase the range of the EV, regenerative braking has been incorporated. Basically, while the vehicle is coasting or braking, the motor works as a generator and converts the vehicle motion (kinetic energy) to electrical energy to charge the HV battery.

This vehicle is considered to be an environmentally friendly vehicle because it does not emit exhaust gases, and thus is cleaner than the conventional vehicles in terms of air pollution.

### Main Components

**3 in 1 unit**

**On-Board Charger (OBC):** A device that charges the high voltage battery by converting AC power from a domestic supply into DC power and supplying it to the battery.

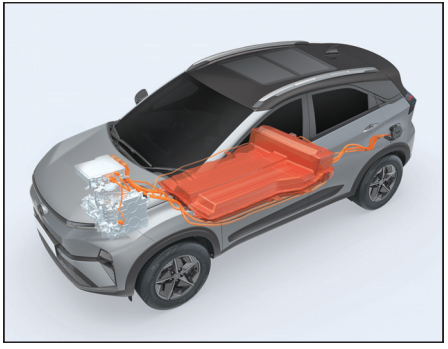
**DC-DC Converter:** A device that converts HV DC power from the HV battery to LV DC power which is required to maintain LV battery charge, which in turn powers the LV systems like lights, wipers, infotainment, etc. in the vehicle.

**Power Distribution Unit:** Distributes power from the high voltage battery to the HV components like inverter, DC-DC converter, E-compressor etc.

**Bi-directional Convertor:** The bi-directional AC-DC/DC-AC converter regulates the active power transferred from the DC battery to the AC powered devices. Additionally, it maintains unity power factor while controlling active power transferred from the AC grid to the DC battery.

**Electric Motor:** A device that converts electrical energy into rotational mechanical energy which is then transferred as rotational torque to the wheels through the gearbox.

**High Voltage Battery (Lithium Iron Phosphate)** - An on board high voltage electrical energy storage device.



### General Warnings

- Your vehicle contains a sealed Lithium Iron Phosphate high voltage battery. If the Li-ion battery is disposed of improperly, there is a risk of severe burns and electrical shock that may result in serious injury or death and there is also a risk of environmental damage.
- The EV system uses high voltage DC current. The system can be hot during and after starting and when the vehicle is shut off. Be careful of both the high voltage and the high temperature.
- Avoid being exposed to high-voltage components in the first place. Observe all high-voltage warning labels these indicate high-voltage components or areas. Observe all orange cables and other high voltage components, large and small these carry high voltage.
- Do not touch high-voltage components while the vehicle is in operation or cranked state.
- Do not disassemble, remove or replace high-voltage parts and cables as well as their connectors because they can cause severe burns or electric shock that may result in serious injury or death.
- The vehicle high voltage system has no user serviceable parts. It is recommended that you take your vehicle to TATA MOTORS EV service centre for any necessary maintenance.
- Pay special attention to pedestrians. Because there is no motor noise, pedestrians may not know the vehicle is approaching, moving or about to move, and may step into the path of vehicle travel.
- When leaving the vehicle, be sure to turn off the EV system. The EV system uses high voltage current. Failure to follow the proper handling instructions may cause serious injury or death.

### Safety Of The High-voltage System

- Do not perform any modifications or work on the vehicle, especially maintenance and repair work on the high-voltage system and the body and avoid retrofitting accessories.
- If work is not carried out properly, there is the risk of fire and fatal injury from electrocution due to the high-voltage system.
- TATA MOTORS recommends to have modifications and work on the vehicle only to be carried out by TATA MO-

TORS Authorised EV Service Centre or one that operates according to TATA MOTOR'S specifications with personnel trained accordingly.

- Your vehicle's high-voltage system is a self-contained system. Safety is ensured as long as no unauthorised work is performed on high voltage electrical components or on the chassis.

**High-voltage System: Contact With Water**

The high-voltage system is typically safe even in the following example situations:

- Water in the foot well, for instance after a rainstorm when sunroof was kept open.
- Vehicle is in water but only up to 300 mm.
- Liquid escapes in the trunk.

In these cases there is no risk of injury from electrocution. Other damage to the vehicle is possible.

**Common Terminologies And Abbreviations**

EV – Electric Vehicle

HV battery – High Voltage battery

LV battery – Low Voltage (12V) battery

AC – Alternating Current

DC – Direct Current

OBC – On Board Charger

PDU – Power Distribution Unit

VCU – Vehicle Control Unit

BMS - Battery Management System

OBD - On Board Diagnostics

SoC – State of Charge

SRS – Supplementary Restraint System

CRS - Child Restraint System

DAB – Driver Airbag

PAB – Passenger Airbag

ABS - Anti-lock Braking System

EBD - Electronic Brake Force Distribution

ESC - Electronic Stability Control

PEPS - Passive Entry/Passive Start

ESCL – Electronic Column Steering Lock

EPAS – Electric Power Assisted Steering

LED – Light Emitting Diode

DRL – Daytime Running Lamp

ORVM - Outer Rear View Mirror

IRVM – Inside Rear View Mirror

EC-IRVM – Electric Chromic Inside Rear View Mirror

HVAC – Heating Ventilation and Air Conditioning

FATC – Fully Automatic Temperature Control

DIS – Driver Information System

DTE - Distance to Empty

IGN – Ignition

ACC – Accessory

EPB – Electronic Parking Brake (EPB)

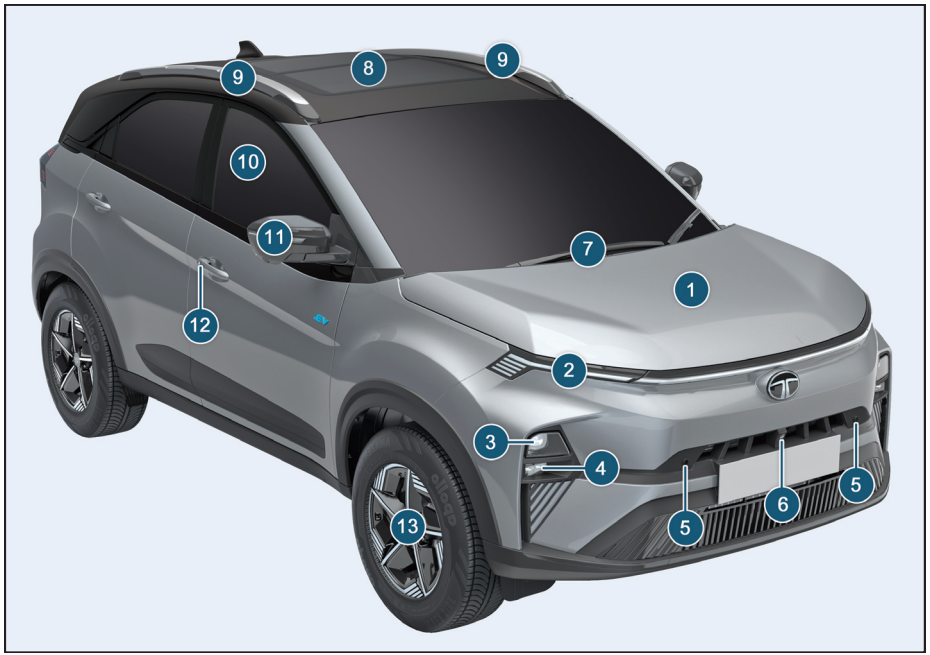
CPL – Centre Positioning Light

V2L – Vehicle to Load

V2V – Vehicle to Vehicle

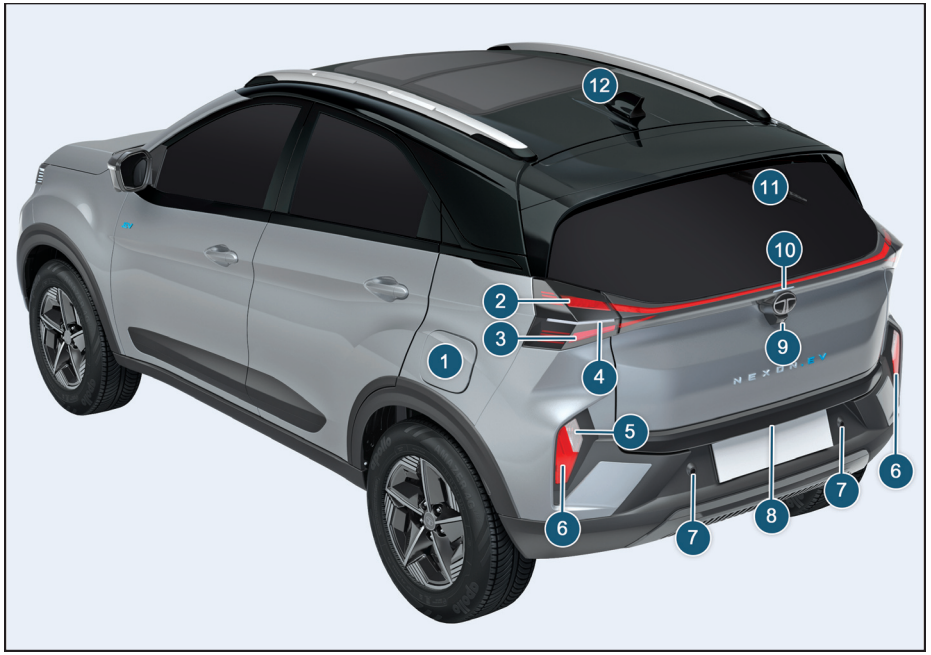
iVBAC - Intelligent Vacuum-less Boost & Active Control

## KNOW YOUR VEHICLE



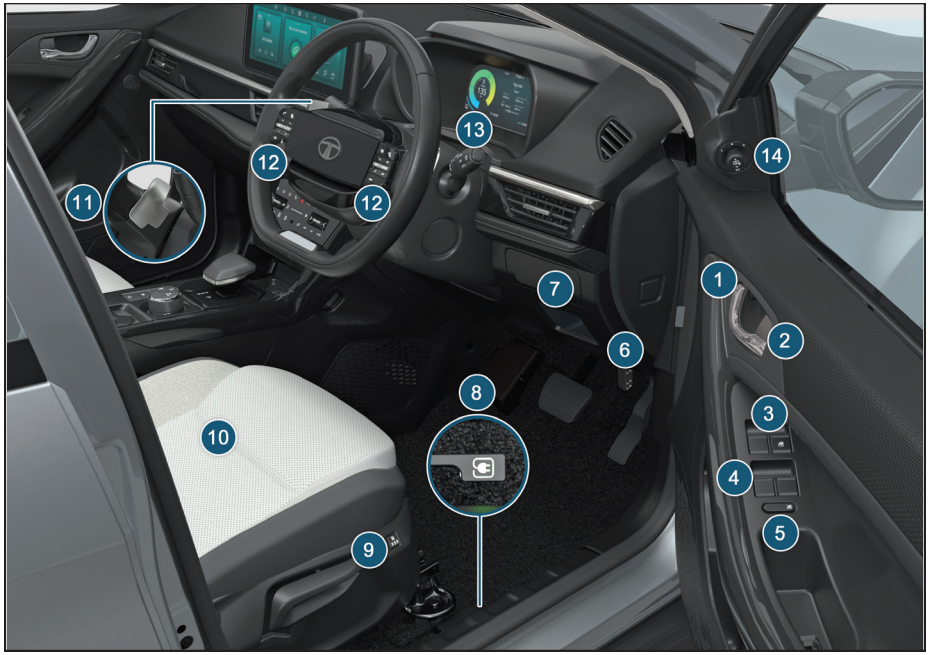

1. Bonnet
2. Turn Indicator/ DRL/ Position Lamp
3. Head Lamp
4. Fog Lamp
5. Front Parking Sensors
6. Front Camera
7. Front Windshield Wipers
8. Sunroof
9. Roof Rails
10. Windows
11. Rear View Mirror with Camera
12. Door Handle Switch (DHS)
13. Alloy Wheels

* Image for your reference, actual vehicle may differ.
* Features listed above may or may not be applicable to your vehicle




1. Charging flap
2. Position Lamp
3. Stop Lamp
4. Turn Indicator
5. Reverse Lamp
6. Reflex Reflector
7. Rear Parking Sensors
8. Tail Gate Open Switch
9. Rear Camera
10. High Mounted Stop Lamp
11. Rear Windshield Wiper
12. Shark Fin Antenna

* Image for your reference, actual vehicle may differ.
* Features listed above may or may not be applicable to your vehicle




1. Door Opening Lever
2. Door Opening Knob
3. Express Down
4. Power Window Switches
5. Inhibit Switch
6. Bonnet Opening Lever
7. Driver side Coin Box
8. Charging flap opening
9. Seat Ventilation
10. Seat
11. Regeneration Lever
12. Steering wheel switches
13. Combi Switch RHS / LHS
14. Outer Rear View Mirror Selector

* Image for your reference, actual vehicle may differ.
* Features listed above may or may not be applicable to your vehicle


1. Instrument Cluster
2. Horn
3. Driver Air Bag
4. Start/Stop Switch
5. Drive Modes
6. Gear Mode
7. Hazard Warning Switch
8. Infotainment Display
9. Passenger Airbag
10. Glove Box
11. Fascia Switches
12. Electronic Parking Brake Switch
13. Power Socket & USB
14. Arm Rest
15. USB Charger for Rear Passenger

* Image for your reference, actual vehicle may differ.
* Features listed above may or may not be applicable to your vehicle

## IMPORTANT MESSAGES

In this Owner's Manual, you will find the text under the heading "WARNING", "CAUTION" and "NOTE" which highlights important information. Pay particular attention to these highlighted messages. The Images / Illustrations in this owner's manual are only for reference. It may defer with actual vehicle.

**ⓘ NOTE**

*Indicates additional information that will assist you in gaining the optimum benefit and care for your vehicle.*

**⚠ WARNING**

Indicates procedures or information that must be followed precisely in order to avoid the possibility of severe personal injury and serious damage to the vehicle.

**⚠ CAUTION**

It indicates to be careful. You are capable of doing something that might result in damage to equipment.

## IMPORTANT INFORMATION

**Vehicle in water logged condition**

- Before driving through water logged areas ensure that water is below running board.
- Unseen potholes could damage under surface of the vehicle.
- Drive slowly and maintain constant acceleration.
- After passing the water logged area ensure to press brakes intermittently to dry the brake disc.

**⚠ WARNING**

- Do not drive through heavy water-logged area.
- Water may enter into vehicle interior and motor compartment which may

damage electrical, electronic circuits.

**Vehicle in flood**

**⚠ WARNING**

- If your vehicle gets flooded and if you see gas bubbles around submerged EV, smoking, it may indicate a damaged battery, Immediately contact TATA MOTORS EV Authorized Service center.
- If your vehicle is flooded wait for water level to recede.
- Once the water has receded, approach the vehicle, open all doors and let the water inside the vehicle get drained completely.
- Start the ignition and check if all electronic are working. Take your vehicle to nearest TATA MOTORS EV Authorized Service Centre and get it inspected.
- Remove floor carpet and open the rubber/plastic gourmet provided on floor board, stepney space for water to recede from interior flooring of the vehicle completely.

**Vehicle in fire**

In case of vehicle fire , immediately evacuate vehicle and contact local fire tender responder. They possess proper training and equipment to safely extinguish vehicle fire. Inform them your vehicle is EV.

Contact nearest TATA MOTORS EV Authorised Service Centre for further assistance.

**⚠ WARNING**

- If there is damage to EV, there is risk of thermal runaway which could lead to fire.
- If the damage occurs in saltwater, the risk of battery short circuits leading to fire is increased.
- Do not modify your vehicle.
- Do not install high-wattage bulbs, non-genuine lamps, or horns.
- Do not modify suspension, wheels, tyres.
- Stick to manufacturer recommended parts.
- Avoid tampering with the wiring harness it can lead to short circuits.

**⚠ CAUTION**

Do not store or carry inflammable materials in the vehicle.

### Vehicle Scrapping

Your vehicle is equipped with SRS Air Bags and Seat Belt Pretensioner, ensure to remove and dispose it by qualified service centre or by TATA MOTORS EV Authorised Service Centre before scrapping your vehicle.

### Vehicle Cyber Attack

Modern vehicles are equipped with internet connectivity for navigation, entertainment and diagnostics, making them vulnerable to cyber attacks.

Vehicles collect and stores personal data, which can be targeted by hackers.

Cyber attacks can compromise infotainment system, brakes, steering and vehicle control, leading to severe cyber risk

### Vehicle Cyber Security

- Refrain from connecting the vehicle to public or unsecured Wi-Fi networks.
- Ensure your vehicle is physically secured by locking doors and parking in safe areas to prevent from unauthorised access.
- Never leave your keys in the car, even if you are nearby.
- Keep your vehicle updated with latest software versions.
- Pay attention to any security alerts or notifications and follow the guidelines.
- Disable the bluetooth of the car where not required and vehicle is not in use.
- Keep infotainment app login credentials private & do not share it with anyone.

## GENERAL SAFETY TIPS

- Safety consciousness not only ensures your safety and the safety of other road users, but it also helps to reduce the wear and tear on your vehicle.
- How quickly you make decisions to avoid an accident.
- Your ability to concentrate.
- How well you can see and judge objects.
- How well familiar you are with your vehicle controls and its capabilities.
- Turn 'ON' the side indicators at least 30 meters before taking a turn or changing the lane.
- Decelerate to a safe speed before taking turn. Do not apply brakes during cornering.
- When overtaking other vehicles, watch out for the oncoming vehicle.
- Never drive under the influence of alcohol or drugs.
- If your vehicle is equipped with an infotainment/ navigation system, set and make changes to your travel route only when the vehicle is parked.
- Program radio presets with the vehicle parked, and use your programmed presets to make radio use quicker and simpler.
- If your car gets flooded and has soaked carpeting or water on the flooring, you should not try to start the vehicle, we recommend to kindly contact TATA MOTORS EV Authorised Service Centre.

**ⓘ NOTE**

*Do not remove the labels attached at different places on your vehicle, they include safety instructions or vehicle specifications.*

## SEATS

Your vehicle is provided with good seating comfort. To make your journey more safe and enjoyable we recommend you to follow below warnings and cautions.

**Driver's seat**

**⚠ WARNING**

- Do not adjust seat while driving / vehicle is moving. Doing so could result in loss of control, and an accident causing death, serious injury, or property damage.
- Always sit as far back as possible from the steering wheel while maintaining comfortable control of the vehicle. Fitment of seat covers on driver seat with airbags is strictly prohibited.
- Do not keep any sitting cushion on seat. This may result in serious or fatal injury in the event of accident.
- After adjusting the seat make sure it is securely locked by pushing it forward and backwards without using

lock release lever. Sudden or unexpected movement of the driver's seat could cause to lose control of the vehicle resulting in an accident.

- All passengers must be seated in seats and restrained with seats properly while riding in vehicle
- If there are occupants in the rear seats, be careful while adjusting the front seat position.

**Front Passenger Seat**

**⚠ WARNING**

Never ride in a vehicle with a front seat-back fully reclined. This may lead to serious injuries. Fitment of seat covers on front passenger seat with airbags is strictly prohibited.

**Rear Seat Back**

**⚠ WARNING**

The rear seatback must be securely latched. If not, passengers and objects could be thrown forward resulting in serious injury in the event of a sudden stop or collision. Luggage and other objects in boot should be kept flat. If large, heavy, or piled they must be secured properly. No passenger should ride in the boot area or sit or lie on folded seatbacks while the vehicle is in motion.

**Applicable for Hatchback/SUV**

**⚠ WARNING**

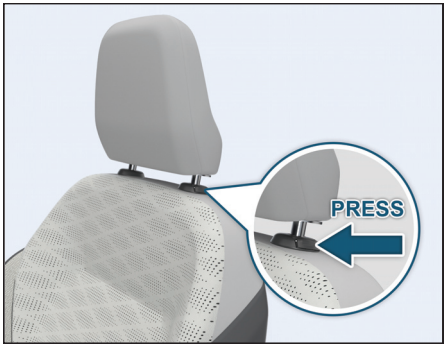
- Under no circumstances should objects be piled higher than the seatbacks. Failure to follow these warnings could result in serious injury in the event of a sudden stop or collision. Ensure that objects are securely fastened.
- Storing items against seatback or in any other way interfering with proper locking of a seatback could result in serious or fatal injury in a sudden stop or collision After resetting the seatback to its seating position make sure it is securely latched by pushing it forward and backward.

**⚠ CAUTION**

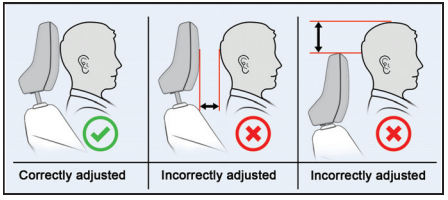
Your hands might cut or injured by the sharp edges of the seats mechanism during looking for small objects trapped under the seats or between the seat and the center console.

## Head Restraint

### Front Seat




Adjust the head restraint so that it is as close to the head as possible and center of the head restraint supports the back of the head at eye level.




**⚠ WARNING**

Do not drive the vehicle without the seat head restraints. Head restraints are intended to help reduce injuries during an accident.

### Rear Seat (If equipped)

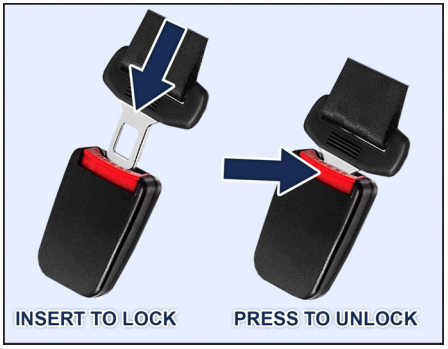
Adjust the head restraint so that it is as close to the head as possible and the center of the head restraint supports the back of the head at eye level.


## SEAT BELTS

This section describes your Vehicle's Seat belts, Airbags and Child restraints system. Please read and follow all these instructions carefully to minimize risk of severe injury or death.

- Seat belts are the primary restraint system in the vehicle. All occupants, including the driver, should always wear seat belts. Your vehicle is equipped with three point seat belts for all occupants.
- Sit back and adjust the driver seat. Make sure that your seat is adjusted to a good driving position and the back of the seat is upright.

### Buckling The Seat Belt




- Grasp the tongue then slowly pull out the seat belt over the shoulder and across the chest. When the seat belt is long enough to fit, insert the tongue into the lock buckle until you hear a “CLICK” which indicates that the seatbelt is securely locked. (Refer “INSERT TO LOCK” image)
- Position the lap portion of seat belt across your pelvic bone, below your abdomen. To remove slack, pull up a bit on the shoulder seat belt. To loosen the lap portion seat belt if it is too tight, tilt the tongue and pull on the lap seat belt. A snug seat belt reduces the risk of sliding under the seat belt in a collision. Ensure that the seat belt running over the body (shoulder segment and lap segment) does not have any twist. Twisted seat belt may not offer effective protection when required.
- Ensure that the seat belt webbing is straight and not twisted. Twisted seat belts may not work properly in case of collision.

### Releasing The Seat Belt

To release the seat belt, push the red button on the lock buckle (refer “PRESS TO UNLOCK” image). Ensure to hold seat belt during unlocking and release it slowly towards the seat belt mounting. The seat belt will automatically retract to its stowed position. If necessary, slide the tongue down the webbing to allow the seat belt to retract fully.

**⚠ WARNING**

Due to retractor reversal action if you leave the seat belt from the unlock position it may hit you or parts like glass in the way which may cause injury to you or damage to the vehicle.

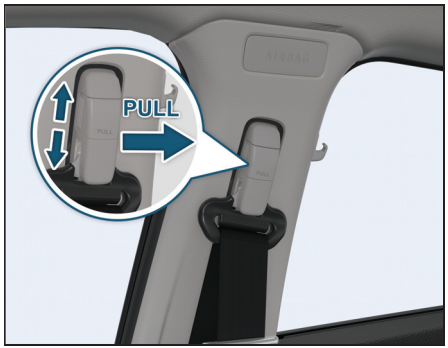
**⚠ WARNING**

- Each seating position and seat belt assembly must be used by one occupant.
- Be careful not to damage or tamper the seat belt webbing or hardware. Inspect the seat belt system period-

ically, checking for cuts, frays, or loose parts. A frayed or torn seatbelt could rip apart in a collision and leave you with no protection.

- If the seat belt webbing or hardware is damaged, get it replaced immediately at TATA MOTORS EV Authorised service centre.
- Do not insert any items such as coins, clips, etc. into the seat belt buckles, and be careful not to spill liquids into these parts. If foreign materials get into a seat belt buckle, the seat belt will not work properly.
- Do not wear seat belts over hard, sharp or fragile items in clothing, such as pens, keys, spectacles etc.
- Do not use any accessories on seat belts or modify in any way the seatbelt system. Devices claiming to improve occupant comfort or repositioning the seat belt, can reduce the protection provided by the seat belt and increase the chance of serious injury in a collision.

## Seat Belt Height Adjustments




If height adjustment is provided in the seat belt, occupant can adjust it as per their comfort.

## Use of Seat Belts For Pregnant Women

**⚠ WARNING**

- Pregnant women must wear a correctly positioned seat belt. It is safer for mother as well as unborn child.
- Pregnant women should wear the lap part of the seat belt across the Pelvic Bone and as snug across the pelvic bone (hips) as possible. Keep the seat belt low so that it does not come across the abdomen. That way the strong bones of the hips will take the force if there is a collision.

### Seat Belt Warning Lamp

Your vehicle is equipped with Seat Belt Reminder (SBR) for all occupants.

**ⓘ NOTE**

- *Whenever an occupant is not sitting in any seating position then seat belt reminder beeping sound will not be played in instrument cluster.*
- *If any material is kept on any seat then SBR beeping sound may be played in instrument cluster. Please do not keep any material on seat.*

- If the driver or any passenger do not fasten the seat belt, seat belt reminder lamp will blink and a buzzer will sound for pre-defined duration until the seat belt is buckled.
- If any passenger seat is occupied by child (without child seat), system may detect occupancy and warn with seat belt warning. It is not taken to mean child can occupy any passenger seat and use seat belt. Please refer CRS section for recommended seating position if child is sitting with child seat.

**ⓘ NOTE**

*Fitment of seat covers on any seating position is strictly prohibited. It may affect the function of occupant sensor.*

### Seat Belts With Pre – Tensioner (if equipped)

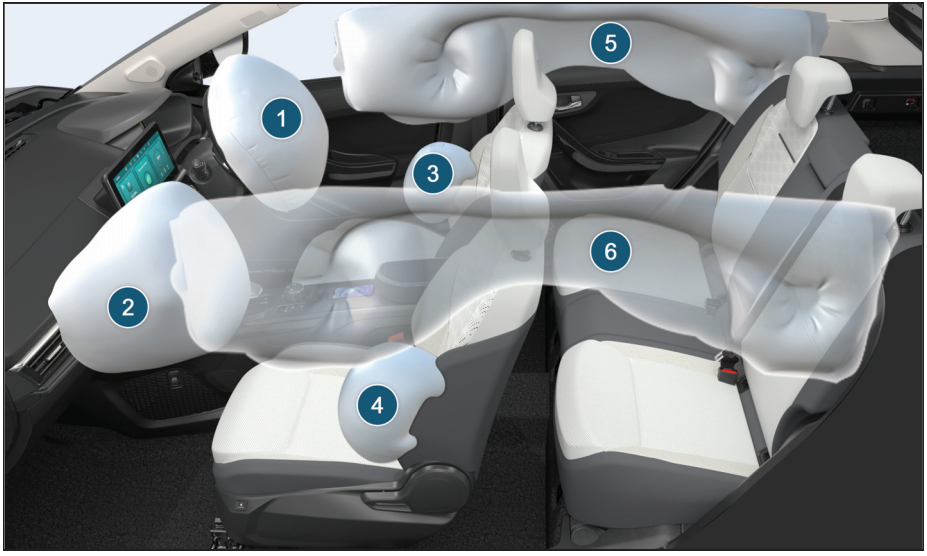
You can use the pre-tensioner seat belts in the same manner as ordinary seat belts. The seat belt pre-tensioner system works in conjunction with the Supplementary Restraints System (SRS-Airbags). In the event of a collision, as may be necessary, pre-tensioner tightens the seat belt so that it fits the occupant's body more snugly. When pre-tensioner activates, there could be some noise and release of smoke. This is normal and there are no health hazards or fire risk.

**Seat Belt With Load Limiter (if equipped)**

You can use the load limiter in the same manner as ordinary seat belts. The seat belt load limiter system works in conjunction with the Supplementary Restraints System (SRS-Airbags). In the event of a collision, as may be necessary, load limiter reduces the load on the rib cage region of the occupant.

If the vehicle has been involved in a collision, get it inspected immediately at TATA MOTORS EV Authorized Service Centre.

## SUPPLEMENTARY RESTRAINT SYSTEM (SRS - AIRBAGS)




The SRS [Supplementary Restraint system] is designed to provide protection to occupants in case of collision or sudden impact, when crash is detected, the SRS airbag system deploys airbags to help reduce the risk of injury to the occupant. It works in conjunction with seat belts.

There are 6 airbags provided in your car:

1. Diver Airbag
2. Front Passenger Airbag
3. Side Airbag RH
4. Side Airbag LH
5. Curtain Airbag RH
6. Curtain Airbag LH

The driver airbag is mounted in the center of the steering wheel. The front passenger airbag is located inside the dashboard in front of the passenger seat. The airbags have suitable indications on steering wheel and on dashboard.

Side airbags are mounted in front row seats.

Curtain airbags are mounted above the doors along the roof on both sides.

The word ‘AIRBAG’ is marked at adjacent locations of respective airbags.

The 'SRS' system also comprises of the following components depending upon the provided safety features in vehicle.

- Seat belt Pre-tensioners
- Seat belt with load limiters
- Airbag 'SRS' ECU (Electronic Control Unit)
- Collision Sensors
- SRS wiring harness
- SRS Warning lamp

The System is active when ignition switch is in the "ON" position or the ignition mode is "ON". Airbags are designed to inflate in collisions when required.

In the event of a collision, the collision sensors will detect signals, and if the Airbag ECU judges that the signals represent a severe collision, will trigger the airbags. The inflated Airbags provide a cushion to the occupants. The Airbag inflates and deflates so quickly that you may not even realize that it has activated. The Airbag will neither hinder your view nor make it hurdle to exit the vehicle. Airbag inflation is virtually instantaneous and occurs with considerable force, accompanied by loud noise and smoke, which is normal. The inflated airbag, together with seat belts, limits the movement of an occupant, thereby reducing the risk of injury.

When an airbag inflates, you may see some smoke like particles. The particles are a normal by product of the process that generates the non-toxic gas used for airbag inflation. These airborne particles may irritate the skin, eyes, nose, or throat. If you have skin or eye irritation, rinse the area with water. For nose or throat irritation, move to fresh air. Also sometimes the smoke can cause breathing problems, in such cases get fresh air promptly.

It is not advisable to drive your vehicle after the airbags have been deployed. If you are involved in another collision, the air-bags will not be in place to protect you.

**ⓘ NOTE**

- *Open your windows and doors as soon as possible after collision to reduce prolonged exposure to the smoke and powder released by the inflating Airbag.*
- *Do not touch the Airbag container's internal components immediately after an Airbag has inflated. The parts that come into contact with an inflating Airbag may be very hot.*
- *Always wash exposed skin areas thoroughly with lukewarm water and mild soap.*

**⚠ WARNING**

- Even in vehicles with airbags, all the occupants must always wear the seat belts provided. In order to minimize the risk and severity of injury in the event of a collision.
- If an occupant is out of position during collision, the rapidly deploying Airbag may forcefully contact the occupant causing serious or fatal injuries.

**⚠ WARNING**

- Always use seat belts and CRS at all times. Even with airbags, you can be seriously injured or killed in a collision if you are not wearing seat belt properly or not wearing seat belt when airbag inflates.
- All occupants should never sit or lean unnecessarily close to the Airbags.
- Move your seat as far back as possible from front Airbags, while still maintaining control of the vehicle.
- All occupants should sit upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked and the IGN is turned off.
- Do not allow the all occupants to place their feet or legs on the dashboard.

### Passenger Airbag (PAB) Switch

The Passenger airbag switch is used to activate and de-activate the passenger airbag in the vehicle.

The switch is located on the left side of the dashboard and can be accessed once the co-driver side door is opened.


### PAB Switch ON

When an adult is seated in the front passenger seat, ensure that PAB switch is turned to ‘ON’ position. This will ensure that the passenger airbag is operational in the event of a collision.

### PAB Switch OFF

If rearward facing child seat needs to be installed on front passenger seat to carry the child then ensure PAB switch is turned OFF. This will ensure that the passenger airbag will remain de-activated in the event of a collision.

This switch can be operated by using mechanical key only. For more details refer “Keys” section in this Manual.

### Passenger Airbag (PAB) Indicator

The Passenger airbag indicator is provided to notify an occupant, whether passenger airbag is activated (ON) or deactivated (OFF) in vehicle.

The PAB indicator is positioned on the roof, close to the roof lamp.


**PAB Indicator ON:**


When the PAB switch is turned to 'ON' position to activate the airbag, 'ON symbol & text' will illuminate in amber color.

**PAB Indicator OFF:**


When the PAB switch is turned to 'OFF' position to deactivate the airbag, 'OFF symbol & text' will illuminate in amber color.

## Wrong Seating Positions

**ⓘ NOTE**

- *Never place your arm over the airbag as a deploying airbag can result in serious arm fractures or other injuries.*
- *Do not allow the passengers to lean their heads or bodies onto doors or place objects between the doors and passengers when they are seated on seats equipped with side and/or curtain Airbags.*
- *Do not place or stick any item/s in the vehicle, except at designated locations (such as utility bins, cup/bottle holders, boot space etc). Loose items may act as a projectile during a collision and cause severe to fatal injuries.*
- *Please be aware that any unsecured item in your vehicle, such as your pet, unsecured CRS or a laptop, can become a potential hazard in the event of a collision or sudden stop, causing injuries to occupants in the vehicle.*
- *Coat hooks (if provided), must be used only for that purpose. Never hang other items on to those hooks. This could affect deployment of the Airbags, and may lead to severe to fatal injuries.*
- *Always contact TATA MOTORS EV Authorised Service Centre if the vehicle is damaged, even if airbag has not inflated or if any part of an airbag module cover shows signs of cracking or damage.*

**⚠ WARNING**

If your SRS malfunctions, the Airbag may not inflate properly during a collision thereby increasing risk of serious injury or death. If any of the following conditions occur, your SRS is malfunctioning:

- The SRS warning lamp does not turn ‘ON’ when the ignition switch is placed in the ‘ON’ position for few seconds.
- The SRS warning lamp stays ‘ON’ after illuminating.
- The SRS warning lamp comes ‘ON’/stays ‘ON’ while the vehicle is in motion.
- The SRS warning lamp blinks when the vehicle is running.

We recommend the customer to immediately visit TATA MOTORS EV Authorised Service Centre and get the SRS system inspected if any of the above conditions occur.

**⚠ WARNING**

- Never make any modifications to your vehicle. The modifications carried out, but not limited to the vehicle frame, bumpers, front fenders, ride height, suspension, seat belts, interior trims, steering wheel (especially holders), are not acceptable. This will affect the intended performance of SRS.
- Fitment of bull bars, seat covers on seats with airbags etc, is strictly prohibited.
- If you need to make any modifications to accommodate any disability you may have, please contact your TATA MOTORS EV Authorised Service Centre for necessary guidance.
- Do not tamper with SRS in any way. This will lead to unexpected performance of system and may cause serious injury or death.

### Airbag Warning Sticker On Front Passenger Sun Visor


The Airbag Warning Symbol on sun visor reminds of the extreme hazards associated with the use of a rearward-facing child restraint on front passenger seat during airbag deployment. It does not mean that a child cannot occupy front passenger seat and use seat belt. Please refer CRS section for recommended seating position for children.

**⚠ WARNING**

Never use a rearward facing child restraint on a seat protected by an active Airbag in front of it, Death or serious injury to the child can occur.

### Airbags Deployment Conditions

**When front airbags should not deploy?**

**Minor frontal collision:** Seat belt (if worn) offers adequate occupant protection in low severity collisions. The airbags are triggered only when there is a collision severe enough to trigger the airbags. Deployment of frontal airbags is not beneficial in low severity collisions.

**Side collision:** During a side collision, occupants tend to move sideways. Therefore, deploying frontal airbags in such situations will not benefit the occupants. Side airbags and side curtain airbags are specifically designed to reduce the injuries that can occur in side collision.

**Rear collision:** During a rear collision, occupants tend to move (rearwards) away from frontal airbags. Therefore, deploying

frontal airbags in such situations will not protect the occupant. Head restraints and seat belts provide occupant protection during a rear collision.

**Rollovers collision:** During a rollover collision, unbelted occupants may float inside the passenger compartment. This will increase the risk of injuries and may prove to be fatal. Wearing seat belts provide highly effective occupant protection during rollover collision. Front airbags, are not designed to deploy in a rollover as frontal airbags cannot offer any protection in rollover collision.

**When front airbags/side airbags/side curtain airbags may not deploy with minor or no visible vehicle damage?**

The airbags are triggered only when there is a collision severe enough to trigger the airbags. The extent of vehicle damage is not always the correct indicator for airbag deployment. In some extreme/rare conditions of rough road driving, running into a curb or hitting other fixed objects the airbags may deploy depending upon the severity of collision. In some of these conditions, damage to the vehicle may be minor or not be readily visible.

**When front airbags/side airbags/side curtain airbags may not deploy, even with exterior visible vehicle damage?**

The airbags are triggered only when there is a collision severe enough to trigger the airbags. The amount of visible vehicle damage is not always the correct indicator for airbag deployment. Some collisions can result in visible damage but with no airbag deployment, because the airbags would not have been needed or would not have provided protection even if they had deployed. Seat belts, if worn, offer adequate occupant protection in such cases.

## CHILDREN ON BOARD

**⚠ WARNING**

- Do not leave unattended children in your vehicle.
- During reversing and parking, ensure that children are far away from the vehicle.

**⚠ WARNING**

- Do not put the safety seat belt under your child's arm or behind its back.
- Do not use pillows, books or towels to boost your child's height.
- Do not allow children to stand up or kneel on either the rear or the front seats. An unrestrained child could suffer serious or fatal injuries during a collision.
- Do not install a booster seat or a booster cushion with a seat belt that is slack or twisted.

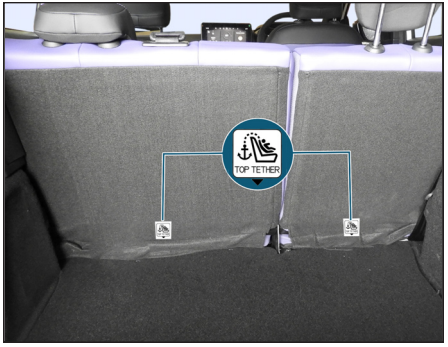
## Child Restraint System (CRS)

TATA MOTORS strongly recommends the use of Child Restraint Systems (CRS) for all children up to 36 Kg and to be placed at recommended positions only (Refer CRS Position table in this section).

### ISOFIX

CRS can be installed in the vehicle using seat belts and/or ISOFIX with support leg (if equipped) or ISOFIX with Top Tether (if equipped). These ISOFIX attachment points are located on rear outboard seating locations which enables quick and safe child seat engagement.

*ISOFIX with mounting eyelets*




*Top Tether*

Top Tether mounting anchorages are located at backside of rear outboard seats.

The harness system of CRS holds the child in place, and in a collision, acts to keep the child positioned in the seat and reduce the risk of injuries.

Keep children in a forward-facing or rearward facing CRS with a harness until they reach the size or age or weight limit recommended by your CRS manufacturer.

### Selection and Installation of CRS

Always select the CRS that complies with latest safety standards (AIS 072 / ECE R44 / ECE R129). The CRS are classified according to the child's size, height and weight. Select the appropriate CRS for your child. Ensure that the child fits properly in the CRS and it is securely installed in the vehicle.

While installing the child seats always adhere to the directions in this Owner's Manual as well as those provided by the child seat's manufacturer.

TATA MOTORS recommends Joie i-Spin Safe i-Size child seats for up to 18 Kg children. These seats are available at TATA MOTORS EV Authorised service centre.

**ⓘ NOTE**

*TATA MOTORS recommends to keep the highlighted device in close condition while using **Joie i-Spin** Safe child seat in car.*

### Installing the Child Seat on Front Passenger Seats

- Adjust the front passenger seat back up to its vertical position as per requirement, so that it can create adequate contact between passenger seat backrest & child seat.
- Adjust the front passenger seat forward or backward as per requirement, so that there could not be any contact between front passenger seat & child seat or child present behind it.
- If required, adjust the front passenger seat height to its suitable position.
- While installing child seat on front passenger sitting positions, adjust the buckle to its suitable position of rotation.
- While installing forward facing child

seat for 15 to 18kg children on front passenger seating position, adjust the front passenger seat to its rearmost position.

**Installing the Child Seat on Rear Passenger Seats**

- If required, adjust the front seat so that there could not be any contact between front seat & child seat or child present behind front seat.
- While installing forward facing child seats adjust the rear seat head restraints to its lowermost position or remove it if required & keep it at safe location to reinstall it whenever adult passenger is sitting at that position.
- While installing child seats on rear out board seating position, adjust their respective buckles to its required position of rotation.

**Not Recommended CRS Position**

**Recommended CRS Position**

**Recommended CRS Position As Per The Vehicle Matrix**

The suitability of seat position for carriage of children and recommended category of CRS is shown in the table below as per the child group.

**ⓘ NOTE**

*The child's life is at risk in a collision if the CRS is not properly secured in the vehicle. Be sure to secure the child in the restraint system according to the manufacturer's instructions.*

**⚠ WARNING**

Do not use an infant carrier or a child safety seat that "hooks" over a seat-back, it will not provide adequate protection in a collision.

| Group | Mass Group | Front Passenger With PAB OFF | Front Passenger With PAB ON | Rear Outboard LH | Rear Outboard RH | Rear Center |
|---|---|---|---|---|---|---|
| 0 | Up to 10 kg | U | X | U | U | X |
| 0+ | Up to 13 kg | U | X | U | U | X |
| I | 9 to 18 kg | U<br>UF | UF | U | U | X |
| II | 15 to 25 kg | UF | UF | U | U | X |
| III | 22 to 36 kg | UF | UF | U | U | X |

**X** : Seat Position not suitable for children in this age group.

**U** : Suitable for "universal" category restraints approved for use in this age group.

**UF**: Suitable for forward facing "universal" category restraints approved for use in this mass group.

**⚠ CAUTION**

A CRS in a closed vehicle can become very hot. To prevent burns, check the seating surface and buckles before placing your child in CRS.

**⚠ WARNING**

Do not modify CRS in any way.

**⚠ CAUTION**

- Do not install a booster seat or a booster cushion with only the lap strap of the seat belt or a seat belt that is slack or twisted.
- Do not leave any toys or other objects loose in the CRS or on the seat while the vehicle is in motion.

| Recommended Crs Positions (CRS That Can Be Used With Isofix System) | | | | | | |
|---|---|---|---|---|---|---|
| Group | Mass Group | Category Of Child Seat | Front Passenger | Rear Outboard LH* | Rear Outboard RH* | Rear Center |
| 0 | Up to 10 kg | E | X | IL | IL | X |
| 0+ | Up to 13 kg | C,D,E | X | IL | IL | X |
| I | 9 to 18 kg | D,C,B,B1, A | X | IL IUF | IL IUF | X |
| II | 15 to 25 kg | | X | IL | IL | X |
| III | 22 to 36 kg | | X | IL | IL | X |

**X**: The seat is not equipped for the ISOFIX system.

**IL**: The seat is suitable for the ISOFIX child seats with “Semi-Universal” approval.

**IUF**: The seat is suitable for forward facing child seats and is permitted for use in this weight category.

*Rear outboard seating positions are suitable for ISO/R3, Class C CRS.

After a collision, we recommend to get seat belts, seats, ISOFIX and top-tether anchorages (as may be applicable) investigated at TATA MOTORS Authorised Service Centre.

Each CRS should be used for one child only.

The passenger airbag can be turned OFF manually through switch provided on side face of the dashboard at front passenger side. Visual signal of passenger airbag ON or OFF is indicated on the roof console.

When passenger airbag is ON, a rearward facing child seat shall not be installed on the front passenger seat.

When passenger airbag is OFF, a forward or rearward facing child seat can be installed on the front passenger seat.

While installing a rearward facing child seat on the front passenger seat, passenger airbag must be OFF.

Refer images in PAB Switch section.

**⚠ WARNING**

If the airbag SRS warning indicator in the instrument cluster illuminates continuously, it means that there is malfunction in the system. Remove the CRS from front passenger seat and contact your TATA MOTORS Authorised Service Centre.

### Child Lock


Child lock are provided on both rear doors. It is used for safety of a child.

Child safety lever to be used for safety of children by preventing them to open rear door while sitting in passenger seat to avoid accidents while vehicle is moving.

Move the lock lever (located on vertical face of the door) as per arrow direction to activate child lock. The door which has been locked by activating the child lock cannot be opened from inside. It can be opened only from the outside.

**ⓘ NOTE**

*Move the lock lever in opposite direction of arrow to deactivate the child proof lock when not required*

## ADDITIONAL SAFETY FEATURE (if equipped)

These are additional safety features. For tell tale related information, please check Warning and Indicator section from this Manual.

### Electronic Stability Program (ESP)

It monitors stability and traction. If the vehicle is from the direction desired by the driver, one or more wheels are getting braked to stabilize the vehicle. ESP assists the user when the vehicle is pulling away on wet or slippery roads. ESP can also stabilize the vehicle during braking and acceleration. ESP warning lamp glows on instrument cluster when the ignition is ON. It goes off after few seconds if system is healthy.

### Anti-Lock Braking System (ABS)

ABS regulates brake pressure in such a way that the wheels do not lock when you brake. This allows you to continue steering the vehicle when braking. The ABS warning lamp in the instrument cluster lights up when the ignition is switched on. It goes OFF after a few seconds if the system is healthy.

### While Braking

In case of emergency braking, press the brake pedal fully. This allows the ABS to regulate braking force and maintain directional control of vehicle When ABS is active driver may feel brake pedal pulsating and very low (ABS) motor activation noise from motor compartment which is normal during braking.

**⚠ WARNING**

- If ABS malfunctions, ABS may not shorten the distance in all situations.
- ABS system will have the effect of increased stopping distance due to conditions such as gravel, pot holes, slippery surfaces, wet road, ground covered with snow etc.
- Travelling on bad road, panic braking brake pedal may become hard, this is due to ABS system taking control. ABS will not compensate forbad road, weather conditions and poor driving judgment. Always drive carefully in adverse weather and traffic conditions.
- Always keep safe distance and adhere to speed limits.

### Electronic Brake Force Distribution (EBD)

EBD monitors and controls the brake pressure on the rear wheels to improve driving stability while braking. EBD provides optimal braking pressure distribution between front and rear wheels to optimize braking distance and to ensure vehicle stability by means of lowering braking pressure at rear wheels.

**⚠ WARNING**

- If the EBD is faulty, The ABS Warning lamp along with the Brake Malfunction lamp remains ON in the Instrument cluster.
- If ESP, ABS and EBD malfunctions, warning lamp will glow continuously. In such cases, do not panic drive the vehicle carefully and immedi-

ately visit TATA MOTORS EV Authorised Service Centre to rectify the issue.

**Electronic Traction Control (ETC)**

The Electronic Traction Control system function (ETC) is designed as a slip control system to prevent the driven wheels of a vehicle from excessive wheel slip.

**Cornering Stability Control (CSC)**

It supports / stabilizes vehicle during partial braking on the curves by reducing pressure at required inner wheel of the vehicle. This helps to reduce the probability of vehicle over steering during cornering.

**Roll over Mitigation (ROM)**

The main feature of the Roll over Mitigation function is the detection of a rollover critical situation and to prevent the vehicle rollover.

**Brake Disc Wiping (BDW)**

Water on the brake disc leads to a delay in brake response time. The purpose of the function Brake Disc wiping is to remove the moisture when driving in wet conditions automatically & this will help to get quick response from Brakes and have a better deceleration.

**Electronic Brake Pre-fill (EBP)**

The Electronic Brake Prefill (EBP) function reduces the air gap of the brake pad and the brake disc. The function is triggered after a sudden release of the accelerator pedal due to an unexpected emergency brake situation. By actively pre-filling the brake system the brake response time is reduced and results in a shorter stopping distance.

**Hydraulic Brake Assist (HBA)**

In an emergency situation, user may not utilize the full available performance of the brake system, as they may apply brake too soft due to Panic. The HBA function detects the critical situation and builds up additional brake pressure to reduce the braking distance.

**Hydraulic Fading Compensation (HFC)**

To compensate the hydraulic fading in the brake circuit while applying brake under extreme operating condition which leads to excessive temperature rise of brake fluid. The moment temperature rises, the

HFC system automatically compensates for this by increasing the hydraulic pressure in relation to the force applied to the pedal.

**Dynamic Wheel Torque by Brake (DWT-B)**

Dynamic Wheel Torque Vectoring system enables the driver to steer the vehicle exactly as intended by shifting propulsion torque via braking. It achieves high off-road performance even on the toughest roads.

**Hill Hold Control (HHC)**

Hill Hold Control is a comfort function. The main intend is to prevent the vehicle from rolling backward while driving off up-hill on an inclined surface.

HHC holds the brakes for a predefined time while you switch your foot from brake pedal to accelerator pedal thus preventing vehicle roll back due to the incline.

The HHC will function on both vehicle facing uphill and downhill if the following conditions are met.

- Vehicle must be equipped with HHC
- Vehicle must be on sufficient gradient
- Parking brake must not be engage
- Correct shifter engaged:
  - Vehicle facing uphill– Forward
  - Vehicle facing downhill – Reverse

**Panic Brake Alert (PBA)**

Panic brake alert warns the surrounding vehicles when an emergency or heavy braking takes place. The function will trigger Hazard lamps automatically, which will provide an immediate warning to vehicles directly behind and nearby. With PBA, surrounding drivers and vehicles have more time to respond against slowdown vehicles. By providing additional warning to improve road safety, PBA reduces the amount and degree of injuries caused by rear end collisions that occur during heavy braking.

**After Impact Braking (AIB)**

- In the event of primary collision there are chances that vehicle can no longer be safely controlled. Accident analysis has shown that an active brake intervention would mitigate the effect of the subsequent collisions.
- After impact braking system is activated automatically and brakes the car in a safe manner to mitigate secondary collision.
- Hazard & brake lights are triggered to intimate surrounding users of an emergency situation. Warning lights will continue flashing after vehicle comes to a standstill.
- The driver can override the system by depressing the brake/ACC pedal if there is a risk of being hit by following traffic.
- The basic assumption is that the brake system is intact after the primary impact.
- Mitigate impact/severity of subsequent collisions.

**Hill Descent control (HDC) (If equipped)**

Hill Descent Control is a comfort feature which automatically controls and maintains the speed of the vehicle while going downhill so that the driver can concentrate on steering the vehicle while going down on steep slopes.

To Activate the HDC feature in the vehicle, the driver must press the HDC button on the fascia switch.

The HDC feature remains active below 30kmph if switched ON.

The HDC feature goes to standby when vehicle cross 30kmph speed

The HDC feature gets deactivated if vehicle speed crosses 60kmph.

Once deactivated, HDC button must be pressed again to activate the HDC feature (when speed id below 60kmph).

The HDC ON lamp in the instrument cluster lights up when the HDC feature is activated.

The HDC malfunction lamp in the instrument cluster lights up when the ignition is switched on. It goes off after a few seconds if the system is healthy.

**Integrated iVBAC**

Intelligent Vacuum-less Boost & Active Control (iVBAC) a cutting edge brake technology designed for hybrid and electric vehicle

## ANTI-THEFT DEVICE-IMMOBILIZER

Immobilizer system is designed to prevent vehicle theft by electronically disabling the vehicle ignition system. The vehicle can be started only with vehicle's original Immobilizer ignition key which has an electronic identification programmed code.

**ⓘ NOTE**

*Use only one key, the other should be kept in a safe location. Note down "key Tag no." information (and keep it safe) which is required while getting new/spare keys. Remember that it is not possible to prepare new/spare keys without the "key Tag number." Take precaution about key, as without key vehicle cannot be started.*

| Vehicle Condition | Immobilizer Lamp Status | Vehicle State | Meaning / Function of The State |
|---|---|---|---|
| Ignition OFF | Blinking | Locked | Vehicle Immobilized and awaiting electronic key |
| Ignition ON | OFF | Unlocked | Normal condition and ready to start the vehicle |
| Ignition ON | ON | Locked | • Problem with key (Wrong key used to start vehicle)<br>• Problem with Immobilizer system. Contact a TATA MOTORS EV Authorised Service Centre. |
| Ignition ON | Blinking | Unlocked | Contact a TATA MOTORS EV Authorized Service Centre immediately. |

## HIGH VOLTAGE BATTERY SYSTEM

### Temperature Limits

Battery pack and vehicle can operate safely in limits from -22°C to 55°C.

**ⓘ NOTE**

*To control the battery temperature of the high voltage battery the air conditioner is used to cool down the battery and may switch on automatically without request from control panel which may generate noise from operation of the air conditioner compressor and cooling fan.*

### HV Battery Life & Maintenance

This Vehicle comes with a standard battery warranty as mentioned in warranty section. Regular service of the vehicle and charging protocol to be followed to maximize the battery life.

### Energy Information

The vehicle battery pack has a maximum energy as specified in Technical Specification. Energy retention capacity deteriorates over several cycles of usage and hence range deterioration happens overtime.

This decrease in range during the end of life of battery is expected and is not considered as a malfunction of the battery pack. During these conditions, it is recommended to contact TATA MOTORS EV Authorised Service Centre.

### Brake Energy Recovery System

The vehicle features energy regeneration system, which regenerates expended energy during coasting or braking during the drive. This system allows the battery to be recharged under the above mentioned conditions.

Please note, the regeneration system does not fully recharge the battery, it only provides a chance to recover a portion of energy that would be lost during braking. When you release the accelerator or press the brake pedal, energy flows from wheels to high voltage battery, thereby charging it.

Regeneration is done by converting driving force (kinetic energy) into electrical energy that is stored in the Lithium Iron Phosphate battery while the vehicle is decelerating or being driven downhill. This is called regenerative braking

### Heavily Discharged High Voltage System

In the case of a heavily discharged HV battery, there is a chance that the low voltage battery is discharged as well. In this case, please contact your nearest TATA MOTORS EV Authorised Service Centre.

**⚠ WARNING**

Do not try to jump start the vehicle or tow the vehicle without guidance from the service assistant.

### Heated High Voltage Battery

In such a condition, the battery has safety logics to limit the performance or disconnect by itself with prior warning. The vehicle should be stopped and allowed to cool down and contact TATA MOTORS EV Authorised Service Centre.

### Long Storage of HV Battery Pack

The HV battery undergoes discharge at a rate of approximately 3% over a period of 30 days in storage. Do not allow the vehicle to be discharged to 0% in storage. It is recommended that the vehicle must be charged to a charge level in between 30% to 50% before leaving the vehicle for long time storage. After this time period the vehicle must be charged to 100% using Normal Charging before use.

### High Voltage System Failure

In the case of high voltage system failure, which may arise due to various reasons, contact TATA MOTORS EV Authorised Service Centre for further assistance.

### Predicting Energy Usage

The vehicle battery energy usage is displayed in the instrument cluster in the form of estimated range. This range is updated by the system algorithm, depending on the driving conditions.

Displayed range in the instrument cluster is a tentative number based on drive route, driving pattern and usage pattern history over the past drives. It is recommended keep a 20km buffer in estimated range before planning the trip

### Disposal

The disposal of an HV Battery must be done with utmost care and will be carried out by TATA MOTORS EV Authorised Service Centre after sales service at the end of the battery life time or if the battery pack has passed its warranty period.

**ⓘ NOTE**

- *It is advised to contact TATA MOTORS EV Authorised Service Centre which shall guide & help in dis-mantling, handling and disposal through agencies who are certified by central/state pollution control board & obtain certificate of disposal from these agencies as proof of sustainable disposal.*
- *If you decide not to use the recommended TATA MOTORS EV Authorised service centre or TATA MOTORS EV Authorised Workshop to dispose of your high voltage battery, the responsibility of the consequences of environmental pollution or accidents must be borne solely by you, the owner of the vehicle.*
- *Customers who wish to dispose of battery by themselves shall deal only with registered entities (list of these is available on the CPCB/SPCB website) after duly verifying validity of necessary registration documents. After disposal the EPR certificate has to be obtained by the customer from the entity. It is request that customer shall provide this certificate to nearest TATA MOTORS EV Authorised Service Centre which is to be kept for records & submitted to central pollution control board as proof of disposal according to policy guidelines.*

**⚠ WARNING**

EV battery contains materials like Lithium Iron, graphite, plastic & steel etc which can have impact on environment and are harmful if not handled/disposed of carefully. There is a risk of severe burns and electrical shock that may result in serious injury while additionally posing a risk of environmental damage.

**⚠ CAUTION**

Keep the following things in mind to prevent damage of the battery pack:

- Avoid exposure of the vehicle to extreme environmental temperature for extended period of time.
- Do not leave the vehicle for longer period when High voltage battery is near zero SOC. Follow the long duration storage guideline.
- Do not use the High voltage battery for any other purpose.
- The capacity of the High voltage battery will decrease with time and usage to hold charge like all such batteries. As the battery ages and capacity decreases, this will result in a decrease from the vehicle's initial mileage range. This is normal, expected, and not indicative of any defect in your High voltage battery.
- When the HV Battery reaches the end of its life cycle, the charging capacity or State of health (SoH) reduces. During such decrease in charge capacity and range of vehicle, contact TATA MOTORS EV Authorised Service Centre and get the SoH of Battery pack get inspected.
- One full slow charging after every 4 Fast charging cycle is recommended for regular charging.
- If over time the maximum charge capacity and the maximum electric range begin to degrade, contact TATA MOTORS EV Authorised Service Centre for inspection and maintenance.
- If the vehicle is involved in a collision, we recommend that you contact to TATA MOTORS EV Authorised Service Centre to inspect if the high voltage battery is still connected or damaged in any way.
- The HV battery capacity of the high voltage battery may decrease when the vehicle is stored in high/low temperatures.
- Electric range may vary depending on the driving conditions, even if the charge amount is the same. The high voltage battery may expend more energy when driving at high speed or uphill. These actions may reduce the vehicle electric range.

## TIPS TO CONSERVE BATTERY LIFE

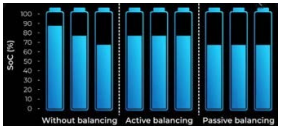
### 1. Battery Charging


It is advisable to charge the vehicle upto 100%. This ensures accurate SoC calculation and consistent energy content intake during charging. Charging to 100% also maintains battery health for longer time and ensures better range throughout the life cycle of the vehicle.

It is also advisable to slow or home charge the vehicle to 100% as much as possible. Slow Charging and full charging is the best way to charge your vehicle to maintain the health of the high voltage battery.

After every 4 fast charging cycles, it is advisable to slow or home charge the vehicle to 100% SoC

### 2. Cell Balancing or Equalization




Cell balancing or equalization and SoC calibration happens during charging, especially at higher SoC, > 90%. This causes charging to take longer time above 90%. Allow the vehicle to reach 100% SoC before terminating the charging session, as both cell balancing and SoC calibration are essential steps for any battery to perform optimally for a prolonged time.

### 3. Extreme Temperatures


Extreme temperatures impact upon how well a battery can maintain its level of charge. Avoid charging the high voltage battery when it is hot and vehicle is driven for long distances especially in summers. Allow vehicle temperature to cool down before charging. It is always better to charge EV when ambient temperature is low especially at night.

### 4. Vehicle Parking


Avoid parking vehicle in direct sunlight for long duration. Try to park it under shade, tree etc. This helps in keeping battery temperature low resulting enhance battery life over the life cycle.

## INSTRUCTIONS TO FOLLOW

### Instructions:

- It is recommended to charge the vehicle to 100% every time, whenever vehicle is being charged.
- Avoid charging vehicle under heavy rain / thunderstorms.
- Avoid driving vehicle below 10% SoC.
- Make sure the charge station's supply cable is positioned so it will not best stepped on, tripped over, or otherwise subjected to damage or stress.
- There are no user serviceable parts inside the charging gun. Contact TATA MOTORS EV Authorised Service Centre should you experience any problems with the charging gun. Do not attempt to repair or service the charge station or charging gun yourself may result in injury.
- Do not operate your charge station and gun if it or the supply cable is visibly damaged. Contact your Service Representative for service immediately. Refer to the 'Emergency and Breakdown' section in this manual for information on the Service Representative in your area.
- Do not place fingers inside the coupler on either end of the charging gun.
- Do not allow children to operate this device. Adult supervision is mandatory when children are in proximity to a charge station that is in use.
- Not for use in commercial garages.
- Slow Charging only happens in park brake engaged condition. So always keep the park brake engaged during a charging session.
- Change of vehicle state (Ignition OFF to Ignition ON or vice-versa) should be avoided while charging
- Post switch off the charger, provide min 5 seconds for touching and pulling out the gun.
- If the charging gun removed and reinsertion required it could be done after at least 10 seconds of removal of the charging gun from Socket.
- Do not disengage/play around with the Park brake/hand brake while vehicle in fast charging condition.
- Overcurrent and leakage current protections are given in the home charging box and charging gun. The RCBO should always be in ON state during normal charging use-case and there should be no error (Red) LEDs on the charging gun. In case any tripping of RCBO is observed or error LEDs start blinking on the Charging gun, please contact TATA MOTORS EV Authorised Service Centre.
- Home charging box comes with a key and lock. It is recommended to lock the box during overnight charge or when the charging box is not in use to avoid misuse of charging point.

**⚠ WARNING**

Unplug both couplers of your Portable Charging Gun before cleaning.

**ⓘ NOTE**

*During normal operation, the charging gun or couplers may feel warm. If either coupler or the charging gun feels hot during charging, unplug the gun and have a qualified electrician inspect the connections before you continue charging.*

**⚠ CAUTION**

Do not use a damaged charging station, plug point or charging port. Using the charger with a worn or damaged port may result in unanticipated consequences.

**⚠ WARNING**

The charger generates electromagnetic waves that can seriously impact medical electric devices such as an implantable cardiac pacemaker in a person. When a person has an implant like the one mentioned above, make sure to ask the medical team and the manufacturer whether charging your EV will impact the operation of the medical electric device implant. In such case, do not go near the vehicle when it is charging.

**⚠ WARNING**

- Ensure that the charging gun is always stored in a safe place. Do no expose it to rain or wet conditions. Avoid pouring or dripping water or other liquids over it.
- If water penetrates the electrical devices, the risk of electric shock increases. Ensure that all plugs and cables are free of moisture before using the charging gun. Never connect the charging gun to the mains with wet or moist hands or when the charging gun is wet.

**ⓘ NOTE**

*Charging station and domestic plug point must be approved/certified by a qualified electrician before using the charging gun. Coupler Receptacle has to have proper Grounding, electrical connection and has to contain a Residual-Current Circuit Device (RCD).*

**⚠ CAUTION**

- Make sure that the device is always stored in a safe place. Do no expose the device to rain or wet conditions.
- DO NOT use this product if the EV charge connector/cable is damaged.
- During charging the vehicle must not be exposed to rain, lightning and snow.

**ⓘ NOTE**

*Charging should be done in Ignition OFF state.*

## IMPORTANT TIPS

### Do's and Don'ts

- Do not direct high pressure washer fluid/ water jets (Pressure above 0.5 bar) at electrical devices and connecter during washing. This is to prevent malfunction/failure of electrical system due to water ingress. No High pressure washing in motor compartment, Under-floor battery pack and CCS Charging port.
- Always check the SoC level before start of journey & ensure car is adequately charged. You may check the SoC level on the mobile app also.
- Remote AC command not to be executed through mobile app while/during the charge initiation process.
- If AC is switched ON remotely using Zconnect, it is required to switch it off using the Zconnect app before unlocking the vehicle. If it is not followed, the vehicle requires two ignition ON cycle to move as it will not move in the first ignition ON cycle.
- The charging gun provided for home charging has to be stored safely and securely in the trunk of the vehicle or has to be plugged on to the Home Charging Box in locked condition.
- The wall box charging unit is also used for slow or home charging. It comes with a key and lock. It is recommended to lock the home charging box when the vehicle is kept for overnight charging or when nobody is around while the vehicle is being slow charged. This ensures that the charging unit along with the charging gun cannot be misused or stolen.
- Wet surfaces are good conductors of electricity. Though the vehicle is equipped with safety mechanisms to protect users, it is advisable to take a few precaution while plugging in for charging. Hence, before charging, ensure that the power source socket, the charging gun and the charging port (CCS2) port in the vehicle are dry. Also ensure that you are standing on dry ground and your hands are dry as well while using the high voltage charging equipment.
- Usage of damaged cables, Power Source socket and vehicle side CCS2 port must be avoided as they may result in electrical hazard and inconsistent charging experience.
- While plugging in for home charging, ensure power source is off. Subsequently ensure charging gun is connected at both ends – One at power source and the other at vehicle's CCS2 port. Then switch ON the power source switch to commence charging. Confirm that the vehicle is charging from the green charging telltale displayed on the instrument cluster. The cluster remains ON to display charging status for 60 sec after the start of charging.
- If charging gun is removed before 100% charging and again needs charging up to 100%, it is advisable to wait for at least 10 seconds before reinserting the gun in the charging port.
- Once charging is complete and gun is removed from the charging port, it is

advisable to pause for 30 sec before switching on the car to start driving.

- When the vehicle is shut off after drive, it is advisable to pause for at least 10-15 sec before charging. It allows the vehicle's electrical system time to de-energize and stabilize before the charging commences.
- Comply with the following in order to prevent electrical shock when charging:-
- Use a waterproof charger.
- Do not touch the charging connector and charging plug with your hands wet, or do not stand in water or snow while connecting the charging cable.
- Be careful when there is lightning.
- Be careful when the charging connector and plug are wet.
- Replace the charging cable if the cable coating is damaged to prevent electrical shock. When connecting or removing the charging cable, make sure to hold the charging connector handle.
- Only use the certified charging cable.
- If you use a separate extension cable such as a reel or use an uncertified cable, it may cause abnormalities of electrical outlets, leading to fire or explosion.
- If you pull the cable itself (without using the handle), the internal wires may be disconnected or get damaged. This may lead to electric shock or fire.
- Do not leave the vehicle with the charging door open. An open charging door may indicate that the vehicle door has been unlocked and may be subject to vehicle theft.
- Always keep the charging connector and charging plug in clean and dry condition. Be sure to keep the charging cable in a condition where there is no water or moisture.
- Make sure to use the designated charger for charging the electric vehicle. Using any other charger may cause failure.
- Make sure to use the designated charger for charging the electric vehicle. Using any other charger may cause failure.
- Before charging the battery, turn OFF the vehicle.
- When the vehicle is switched OFF while charging, the cooling fan inside the motor compartment may automatically operate. Do not touch the cooling fan while charging.
- Be careful not to drop the charging connector. The charging connector can be damaged.
- Do NOT use an extension cord, when using the L1-Trickle charger, as this may overheat and/or cause damage.

- When charging or right after charging the high voltage battery, the cooling will be made using air conditioner system in order to control the high voltage battery temperature. At this time, the Noise might occur by the air conditioner compressor and cooling fan, but this is due to normal operation.

## TYPES OF CHARGING

| SN | Types Of Charging | Charging Component Specification | *Charging Time | Charge Time In Soc Band | Charge Gun | Power Source |
|---|---|---|---|---|---|---|
| 1 | Normal/AC Charging | • Nominal Voltage: 230V AC RMS single Phase 50Hz<br>• Power Rating: 3.3Kw AC RMS<br>• Rated Current 13A AC RMS | 17.6 Hrs. | 10-100 % |  |  |
| 2 | AC Charging (WMU) | • Nominal Voltage: 230 V AC RMS single Phase 50Hz<br>• Power Rating: 7.5Kw AC RMS<br>• Rated Current 32A AC RMS | 6.6 Hrs. | 10-100 % |  |  |
| 3 | Fast/DC Charging | • Power Rating: 60kW<br>Charging station voltage capability should be greater than or equal high voltage battery pack nominal voltage. | 40 Mins. | 10-80 % |  |  |

*Under standard test condition.

### Normal / AC Charging

In electricity grid, electric power is AC (alternating current) by nature. However, electric power in battery is DC (Direct Current) by nature. Hence, to charge an electric car by AC grid, power has to be converted from AC to DC. And to convert AC power to DC power On-board Charger is used. This type of charging is called Normal charging/AC charging.

Normal charging is recommended for usual charging of the vehicle. This charging method is most suitable for parking spots where the car will stay parked for longer duration of time.

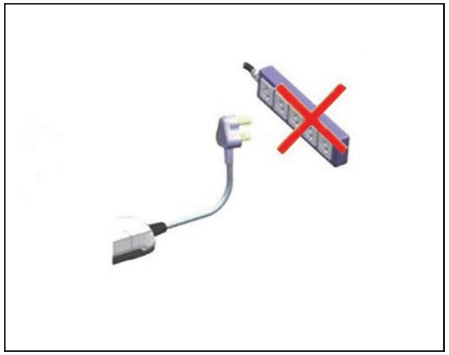
### Precautions For Normal Charging

1. Proper maintenance of earthling pit is must. Add water & add salts at regular intervals into the earth pits in order to maintain the value of earth resistance. Check annually the condition of the electrodes so as to add or replace electrodes.
2. The electrical socket used for EV charging and its associated wiring should be able to supply 15A dedicated load continuously.
3. Vehicle charging port must be free of dust, water or snow while connecting the charging gun; if not proper cleaning method must be used to remove dust, water and ice.
4. Don't try to pull off the charging gun during charging.
5. Don't pull out the charging gun if it is in locked condition as excess force can break or damage the locking mechanism.

### Normal Charging Procedure

1. Engage the Automatic Parking Brake. (Charging won't start if EPB is not engaged).
2. Connect the plug to AC power socket.

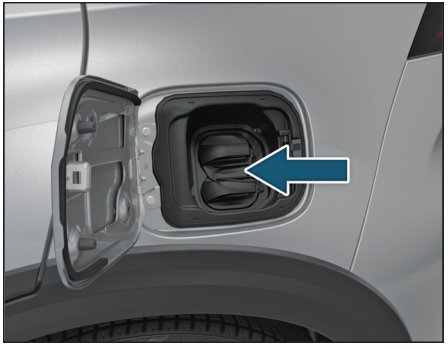

3. DO NOT plug into a power strip.



4. Open the protective cap on Charging Gun.

5. Pull the 'Charging-inlet Flap Open Lever' to open the charging inlet flap.

6. Open the protective cap on Charging Inlet.

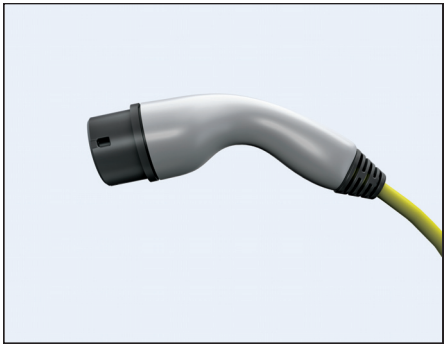


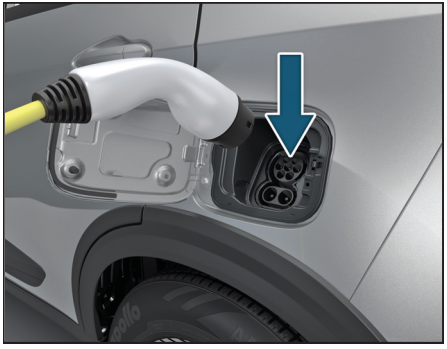
7. Before connecting the charging gun to vehicle charging socket, make sure the gun lock is released.

**⚠ CAUTION**

- If the Gun Lock is not released please don't insert the Charging Gun forcefully into the socket. It may damage the Charging Socket.
- Don't use the electric connection with extension or power strip for the slow charging or AC charging of the vehicle, this will lead to heat up the cables and charging gun. Prolong charging IN such condition may lead to melting of wire and charging gun.

8. If the actuator is engaged and the gun is not getting inserted properly, contact TATA MOTORS EV Authorised service centre.
9. Remove any dust on the Charging Gun and Charging Inlet. Connect the charging gun to vehicle AC Charging Inlet.





10. Switch on the AC supply.

11. Charging Gun will be locked after switching on the AC supply. You will hear a “click” sound, when the gun is connected correctly.

**ⓘ NOTE**

*When vehicle is in Charging Mode, it will not go in Drive (D), Sport (S) or Reverse(R).*

12. Normally the car starts automatically charging. If not, please refer ‘Troubleshooting Guide for Normal Charging’ table.

13. Open the door and see instrument cluster for State of Charge, Time to Charge and Gun connection status.

14. In case the park brake is not engaged or partially engaged the charging won’t start and ‘Engage Park Brake to start charging’ message will be displayed on instrument cluster.

**ⓘ NOTE**

*Infotainment and cabin cooling can be used during charging of the vehicle by putting the vehicle in Ignition.*

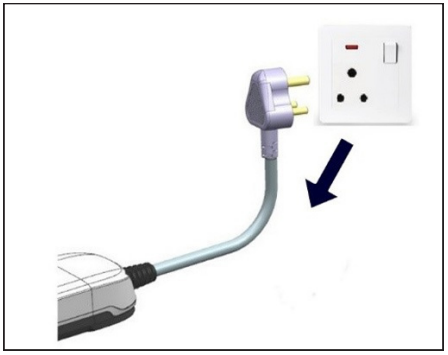
15. To stop the charging, switch off the AC power supply.

16. The charging gun will be unlocked after switching off the AC supply and pressing charging gun unlock switch.

**ⓘ NOTE**

*If the gun does not gets unlocked in first attempt of pressing fascia switch, repeat the operation.*

17. Pull out the plug.



18. Put on the protective caps on both Charging Gun and Vehicle Inlet.

**ⓘ NOTE**

- *Once Normal/Fast charging is completed, 90 seconds of time gap is required before the vehicle can be started. After turning off the vehicle, wait for four seconds if you want to start the vehicle again.*

**ⓘ NOTE**

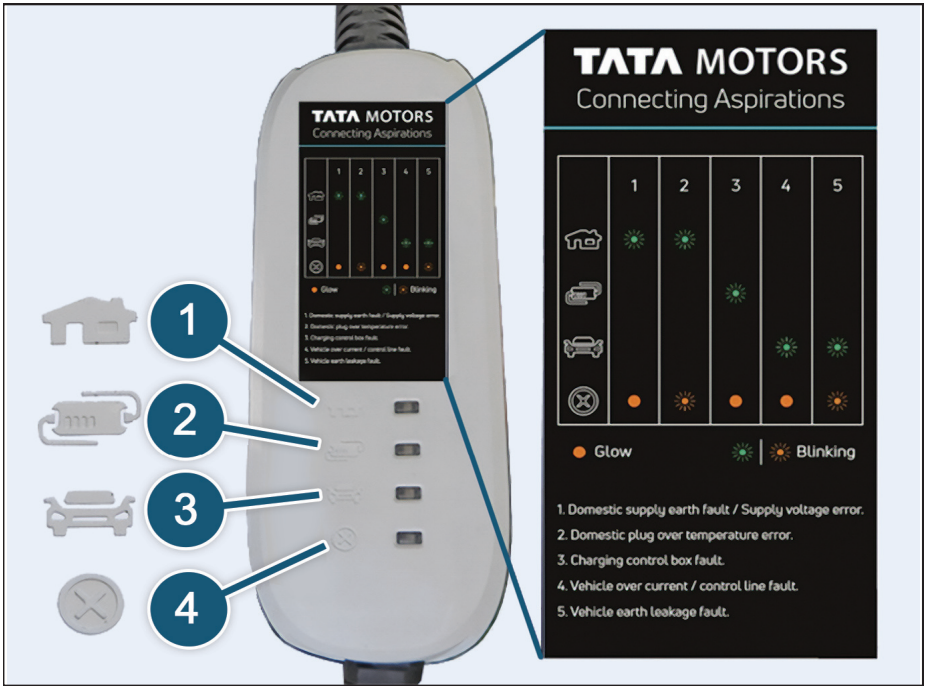
*No tampering should be done with the earthing pits created and approved by TATA MOTORS during power plug installation. If any tampering is found the warranty is null and avoid.*

If the charging gun remains stuck even after pressing the fascia switch five times, use the mechanical override lever located at the back of the vehicle, as shown in the adjacent figure. Pull this lever to release the gun from the CCS2 port.

**Important:** Operate the mechanical lever only after ensuring that the current from the charger to the vehicle has stopped. Tata Motors is not liable for any issues arising from the use of the mechanical override lever without confirming the cessation of current delivery from the charger to the vehicle.

**Normal Charging Control Box Indications:**

1. Home
2. Control Box
3. Vehicle
4. Fault



## CHARGING

| Working State | Home | Control Box | Vehicle | Fault | Example | Description |
|---|---|---|---|---|---|---|
| Self-inspection state | Blink | Blink | Blink | Blink |  | Self-inspection for system |
| Standby state | On | Off | Off | Off |  | No fault<br>Check for engagement of park brake |
| | | | | Blink |  | Plug temperature is high |
| Charging state | On | On | Blink | Off |  | No fault |
| | | | | Blink |  | Plug temperature is high |
| Charging stopped | On | On | On | Off |  | No fault |
| | | | | Blink |  | Plug temperature is high |

### Troubleshooting Guide For Normal Charging

Refer the below table if charging is not starting or if it stops abruptly. The below symbols of 'House', 'Control Box', 'Vehicle' and 'Fault' can be seen on the control box beside the respective LEDs.

| Fault Category | Indication | Home | Control Box | Vehicle | Fault | Recommended Action |
|---|---|---|---|---|---|---|
| | |  |  |  |  | |
| Interface fault in home |  | Blink | Off | Off | On | Improper earth connection. Check the earth pit. |
| | | | | | | Short circuit between PE and phase. Error in domestic supply side. "Stop Charging" |
| | | | | | | AC voltage is either less than 190V or more than 250V. Error in domestic supply side. "Stop Charging" |
| |  | Blink | Off | Off | Blink | Proper connection of plug and socket should be ensured. Also, check socket rating and use 15A socket |
| Control box fault |  | Off | Blink | Off | On | Contact TATA MOTORS EV Authorised Service Centre |
| |  | Off | Blink | Off | Blink | |

## CHARGING

| Fault Category | Indication | Home | Control Box | Vehicle | Fault | Recommended Action |
|---|---|---|---|---|---|---|
| Vehicle box |  | Off | Off | Blink | On | Go to nearest TATA MOTORS EV Authorised Service Centre |
| |  | Off | Off | Blink | Blink | |

**Legend**

 -Blink  - Off  - On

### AC Charging (Wall Mount Unit)

This type of charging will help customer to improve the charging time for vehicle charging.

**AC (WMU) Procedure**

1. EPB should be in engaged condition (Charging won't start if EPB is not engaged).

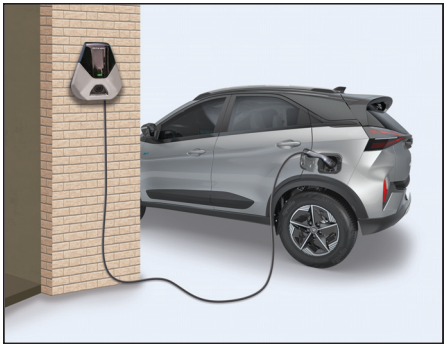
2. Pull the 'Charging-inlet Flap Open Lever' to open the charging inlet flap.

3. Open the protective cap on Charging Inlet (AC side).
4. Remove the charging gun from the WMU. (WMU will be separately installed at customer end)


5. Open the protective cap on WMU Charging Gun.

6. Before connecting the WMU charging gun to vehicle charging socket, make sure the gun lock is released.
7. If the actuator is engaged and the gun is not getting inserted properly, contact TATA MOTORS EV Authorised Service Centre.
8. Remove any dust on the Charging Gun and Charging Inlet. Connect the WMU charging gun to vehicle AC WMU Charging Inlet.

9. Scan the RFID provided, on the WMU to start charging.
10. Charging gun will be locked automatically. You will hear a “click” sound, when the gun is connected correctly.



11. Normally the car starts automatically charging. If not, please refer ‘Troubleshooting Guide in WMU’s owners’ manual.
12. Open the door and see instrument cluster for State of Charge, Time to Charge and Gun connection status.
13. To stop the charging, scan the RFID on WMU.
14. The charging gun will be unlocked after pressing the fascia switch on the dashboard panel. Pull out the gun.
15. Put on the protective caps on both Charging Gun and Vehicle Inlet. Place the Charging gun back and close the charging inlet flap.

### Fast / DC Charging

- Fast charging of electric vehicle is achieved by using Fast/DC charging stations; they convert the AC power from the grid to DC power and can directly charge the HV battery pack thus bypassing the On-Board Charger.
- Fast charging can be done wherever Fast/DC charging station is available. User can charge at high speeds at public charging stations.
- Electric vehicle can be fast charged using any fast charging station or equipment compliant to Combined Charging System standard having Type 2 connector (CCS Type 2).

**ⓘ NOTE**

- *Battery performance and durability can deteriorate if the fast charger is*

*used constantly. Use of Fast Charging should be minimized in order to help prolong high voltage battery life.*

- *After a maximum of four fast charging cycles, you must use Normal charging to 100% State of Charge for the optimum performance of the high voltage battery pack.*

**ⓘ NOTE**

*Depending on the condition and durability of the high voltage battery, charger specifications, charger rating, and ambient temperature, the time required for charging the high voltage battery may vary.*

**Fast Charging Procedure**

1. Engage the Automatic parking brake (EPB) switch. (Charging won't start if EPB is not engaged).

2. Pull out the Charging Gun from DC/Fast Charging Station.
3. Open the protective cap on Charging Gun.

4. Pull the 'Charging-inlet Flap Open Lever' to open the charging door.
5. Open the charger-inlet flap.
6. Before connecting the charging gun to vehicle charging socket, make sure the gun lock is released.

**⚠ CAUTION**

If the Gun Lock is not released please don't insert the Charging Gun forcefully into the socket. It may damage the Charging Socket.

7. Remove any dust on the Charging Gun and Charging Inlet.
8. Connect the charging gun to vehicle AC and DC Charging Inlet.
9. Switch on the DC charging station supply.

10. Charging Gun will be locked after switching on the DC charging station.
11. You hear a “click”, when the Gun is connected correctly, Click sound is because of Gun locking after supply is switched on.

12. Normally the car starts automatically charging. If not, please refer Charging Gun’s Fault Indication & Indication Priority Table on the charging station.

**ⓘ NOTE**

*When vehicle is in Charging Mode, it will not go in Drive (D), Sport (S) or Reverse (R).*

13. To know the State of Charge, Time to Charge and Gun connection status please see instrument cluster. This status is displayed only when driver door is opened.
14. In case the park brake is not engaged or partially engaged the charging won’t start and ‘Engage Park Brake to start charging’ message will be displayed on instrument cluster.

**ⓘ NOTE**

*Infotainment and cabin cooling can be used during charging of the vehicle by putting the vehicle in Ignition.*

15. To stop the charging, switch off DC charging station.
16. The charging gun will be unlocked 15 seconds after switching off the supply from DC charging station. For fast charging no fascia switch input is required. It unlocks automatically.
17. Put on the protective caps on both Charging Gun and Vehicle Inlet.

**ⓘ NOTE**

*If you remove the charging gun from the vehicle and if you wish to reinsert the gun to recharge the vehicle, please wait for at least 10 seconds before charging*

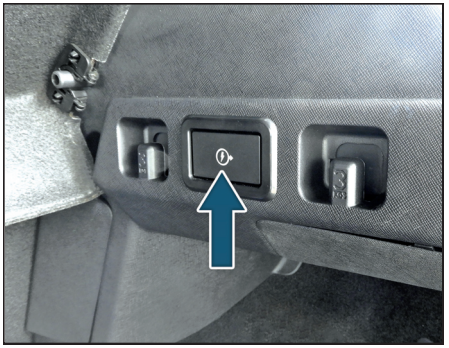
*gun is plugged again.*

**ⓘ NOTE**

*In emergency charging shutdown conditions, Gun won't be unlocked. Contact TATA MOTORS EV Authorised Service Centre.*

## V2X CHARGING (if equipped)

The V2X charging system offers a flexible and energy exchange method for charging electric vehicles (EVs) without the need for charging stations. A new framework for vehicle-to-vehicle charging technology is introduced that can work plug-in electric cars.



V2X switch is located below parcel tray at RH side of luggage compartment.

### Vehicle Ignition OFF / ON Conditions

The transponder in the ignition key carries a Unique Identification Code (UID). The vehicle unlocks when the code on the key matches with the code on the Vehicle Control Unit (VCU). In case of PEPS variant, Immobilizer function is provided by PEPS ECU.

### Vehicle to vehicle charging (V2V)

V2V Gun

### Vehicle Ignition OFF state

1. User can decide the discharge SoC limit of the source vehicle (donor) and can preset the SoC limit in infotainment before starting the V2V function.
   - Since infotainment system won't

be awake in Ignition OFF state, Limit can be set only in ignition ON or Crank on condition.

- Discharge SoC Limit cannot be changed during the V2V function.
- Incase if no limit is set by the user, 30% SoC will be consider as default discharge SoC limit.

2. Keep both sink (recipient) and source (donor) vehicle nearby and ensure maximum up to 3m distance between the charging inlets of the vehicles.
3. Make sure to keep the vehicles and the V2V charger in dry environment/in shade
4. If the Source/sink vehicle is in OFF state, Open/close the door or if vehicle is in locked state Press RKE unlock Button and open the door to wake up the vehicle control unit. Once wakes up, Vehicle control unit will remains in wakeup state for 120sec.
5. Remove the caps & connect the V2V gun to the source and sink vehicle within in 120sec of step 4. Check the labels on the V2V gun and make sure that the V2Vgun side labeled as “source” should connect to the source vehicle & the other end labeled as “sink” should connect to the sink vehicle. If user couldn’t connect the V2V gun within 120sec of step 4. Remove the Gun completely and repeat from step 4.
6. Make sure park-brake/EPB is engaged.
7. Ensure V2V gun is connected to both vehicles and press the V2X switch of source vehicle within 120 sec of step 5 to start the 220V AC power supply and to charge the sink vehicle. If user couldn’t press V2X switch within 120sec of successful step 5. Remove the Gun completely and repeat from step 4 to initiate the V2V function again.
8. Check for the telltale indication frequently when the V2V function is in progress to ensure there is no interruption/fault.
9. V2V function will stop from source vehicle side, if there is no energy dissipation has happened for 100secs from successful step 7. In this case, remove the gun completely and start from step 4 to reinitiate the V2V function
10. Charging will automatically stop if the source vehicle SoC goes below the user set SoC limit or at 30%. In that case follow the procedure from step 16.
11. Also monitor the SoC of both vehicles frequently to check if sink vehicle is charged enough/ source vehicle SoC is reached the minimum required SoC level.
12. To stop the V2V charging from source vehicle side, press the V2X switch of source vehicle to disable the 220V AC supply and follow from step 16 after 5sec.
13. To stop the V2V charging from sink vehicle side, press its fascia switch and then ensure to press the V2X switch of source vehicle to stop the AC power supply. & follow step 14.
14. After 5 sec delay press source vehicle fascia switch and then remove both the

guns.

15. In case V2V charging gets interrupted from source/sink vehicle side due to any fault, Press the Gun unlock fascia switch in both vehicle and completely remove the gun from both side and repeat from step 4. If the issue still remains, Press the Gun unlock fascia of both vehicle and completely remove the gun. After that keep the vehicles in Ignition OFF state for 120 seconds. Then repeat from Step 4.If the charging get interrupted again from vehicle side go to step 16 and contact nearby TATA MOTORS Authorised Service Centre.
16. To remove the gun, Press Fascia switch of both vehicles. Close the V2V charging gun caps to ensure that it is not exposed to mud/metal particle etc.

**DON'TS**

1. Don't shift the gear
2. Don't crank source or sink vehicle during V2V charging
3. Don't use un authorized V2V gun
4. Don't press the V2X switch of sink vehicle throughout the V2V function
5. Don't keep the V2V charging gun open at sink vehicle side while pressing the V2X switch in the source vehicle
6. Don't perform V2V charging in other vehicles which is not recommended by the TPEM ( list to be published later) as source and sink vehicle
7. Don't keep the V2V gun caps open after the use to ensure it is not exposed to mud/metal particle etc.
8. Don't start V2V charging function if source Vehicle SoC is lesser than or equal to 30%.
9. Do not perform V2V charging during rain or in any situation where it might be exposed to water
10. Don't press V2X switch and fascia switch together to stop the function( keep minimum 5sec delay )
11. Don't keep both vehicle at far distance where the gun has to stretch maximum to connect between the vehicles.
12. Don't disengage the park brake in either of the vehicles during the charging.
13. Do not insert the V2L connector when vehicle is in Crank or EV ready condition.
14. Don't disassemble or remodel the V2V adaptor
15. Don't Drop the V2V gun to cause high impact and don't keep heavy objects over the gun

**Vehicle Ignition ON state**

1. Keep both sink (recipient) and source (donor) vehicle nearby and ensure maximum up to 3m distance between the charging inlets of the vehicles.
2. Turn ON the ignition of both sink (recipient)/source (donor) vehicle. Make sure to keep the vehicles in Ignition ON mode throughout the procedure
3. Engage the park-break OR EPB of both vehicles.
4. Remove the caps & connect the V2V gun to the source and sink vehicle. Check the labels on the V2V gun and make sure that the V2Vgun side la-

beled as “source” should connect to the source vehicle & the other end labeled as “sink” should connect to the sink vehicle.

5. Ensure V2V gun is connected to both vehicles and press the V2X switch of source vehicle to start the 220V AC power supply and to charge the sink vehicle. ( TBC with VCU team-V2V status if V2X switch enabled in sink vehicle also)
6. Check telltale indication in instrument cluster of vehicles to ensure V2V charging is on.( check for the HMI)
7. Check for the telltale indication frequently when the V2V charging is in progress to ensure there is no interruption/fault.
8. Charging will automatically stop if the source vehicle SoC goes below 30%. In that case follow the procedure from step 14.
9. Also monitor the SoC of both vehicles frequently to check if sink vehicle is charged enough/ source vehicle SoC is reached the minimum required SoC level
10. If SoC of source vehicle reaches the agreed Limit and to stop the V2V charging from source vehicle side, press the V2X switch of source vehicle to disable the 220V AC supply and follow from step 14 after 5sec
11. If Sink vehicle is charged up to the agreed SoC level and to stop the V2V charging from sink vehicle side, press its fascia switch to stop charging and then ensure to press the V2X switch of source vehicle to stop the AC power supply. & follow step 12
12. After 5 sec delay press source vehicle fascia switch and then remove both the guns & follow step 15
13. In case V2V charging gets interrupted from source/sink vehicle side due to any fault, Press the Gun unlock fascia switch in both vehicle and completely remove the gun from both side while keeping the vehicles in Ignition ON and repeat from step 1. If the issue still remains, Press the Gun unlock fascia switch in both vehicle and completely remove the gun from both side both. After that both vehicle should brought in to ignition OFF state. Keep the vehicles in Ignition OFF state for 30sec. Then repeat from Step 1. If the charging get interrupted again from vehicle side go to step 14 to 15 and contact TATA MOTORS Authorised Service Centre.
14. To remove the gun, Press Fascia switch of both vehicles. Close the V2V adaptor caps to ensure that it is not exposed to mud/metal particle etc.
15. Turn off the Ignition in both vehicles

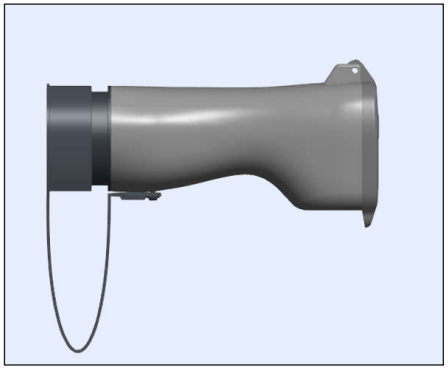
**DON’T’S**

1. Don’t switch off the Ignition in source or sink vehicle during V2V charging
2. Don’t crank source or sink vehicle during V2V charging
3. Don’t use un authorized V2V gun
4. Don’t press the V2X switch of sink vehicle throughout the sink vehicle charging
5. Don’t keep the V2V charging gun open at sink vehicle side while pressing the

v2x switch in the source vehicle after connecting the source side gun.

6. Don't perform V2V charging in other vehicles which is not recommended by the TPEM ( list to be published later) as source and sink vehicle
7. Don't keep the V2V gun caps open after the use to ensure it is not exposed to mud/metal particle etc.
8. Don't start V2V charging function if source Vehicle SoC is lesser than or equal to 30%.
9. Do not perform V2V charging during rain or in any situation where it might be exposed to water
10. Don't press V2X switch and fascia switch together to stop the function(keep minimum 5sec delay )
11. Don't keep both vehicle at far distance where the gun has to stretch maximum to connect between the vehicles.
12. Don't disengage the park brake in either of the vehicles during the charging.
13. Don't insert the V2L connector when vehicle is in Crank or EV ready condition.

**Vehicle to load charging (V2L)**



**Vehicle Ignition OFF state**

1. User can decide the discharge SoC limit of the vehicle and can preset the SoC limit in infotainment before starting the V2L function.
   - Since infotainment system won't be awake in Ignition OFF state, Limit can be set only in ignition ON or Crank ON condition in the previous cycle.
   - Discharge SoC Limit cannot be changed during the V2L function.
   - Incase if no limit is set by the user, 30% SoC will be consider as default discharge SoC limit
2. Make sure to keep the vehicle and the V2L adaptor in dry environment/in shade.
3. If the vehicle is in OFF state, Open/close the door or if vehicle is in locked state Press RKE unlock button and open the door to wake up the vehicle control unit. Once wakes up, Vehicle control unit will remain in wakeup state for 120sec.
4. Remove the V2L adaptor caps & connect the V2L adaptor gun to the source vehicle within in 120sec of step 3.
5. Make sure park-brake/EPB is engaged.
6. If user couldn't connect the V2L gun within 120sec of step 3, then remove the Gun completely and repeat from step 3.
7. Connect external load to the V2L adap-

tor 3pin socket. Make sure that Electrical loads are healthy/in good condition and ensure the relevant cables and plugs of loads are connected properly.

- When using multiple loads make sure Total power consumption of the loads should be lesser than 3.3Kw or total current demand of loads should be lesser than 16A.
- If the electric appliances demand exceed the maximum power and current capacity that the vehicle can provide, V2L function will stop from vehicle side
- It is recommended to use home appliances with Power factor greater than 0.85
- If multiple loads are connected on extension box, it is recommended to use extension box with MCB (16A) & with M Type plug and socket. The MCB switch needs to be in switched off/ turned off condition.

8. Press V2X switch with in 120sec of step 4 to start 220V AC power supply from vehicle. If user couldn't press V2X switch within 120sec of step 3. Remove the Gun completely and repeat from step 3 to initiate the V2L function.
9. Ensure safety precaution against the live 220VAC voltage in the V2L adaptor.
10. Turn on the loads.
11. Check telltale indication in instrument cluster to ensure V2L discharging is initiated/in progress.
12. Check for the telltale indication frequently when the V2L discharge function is in progress to ensure there is no interruption/fault.
13. V2L function will stop if there is no energy dissipation has happened/if there is no load is connected for 100secs from successful step 8. In this case, remove the gun completely and start from step 3 to reinitiate the V2L discharge function
14. To stop the V2L discharge function, First switch off the external loads and then press V2X switch second time to disable the 220V AC power supply and Go to step 17.
15. V2L function will automatically stop if the source vehicle SoC goes below the user set value or at the default value of 30%. In that case go to step 17
16. In case V2L function gets interrupted from vehicle side due to any fault, Press the Gun unlock fascia switch in vehicle and completely remove the gun repeat from step 3.
    - If the issue still remains, Press the Gun unlock fascia and completely remove the gun. Keep the vehicles in Ignition OFF state for 120sec. Then repeat from Step 3.
    - If the charging get interrupted again from vehicle side go to step 17 and vehicle along with the V2L adaptor need to be taken to nearby TATA MOTORS Authorised Service Centre.
17. Switch off and remove the Connected Loads then Press Fascia switch and remove the V2L adaptor. (Close the V2L adaptor caps to ensure it is not exposed to mud/metal particle etc).

**DON'TS**

1. Don't crank the vehicle during V2L charging
2. Don't use unauthorized V2L adaptor
3. Don't use High power home appliances like air conditioner, dryer having power consumption more than 3.3Kw and current requirement more than 16A
4. Don't hang the appliances on the V2L adaptor
5. Don't use appliances or extension box which is not having national safety certificate. Refer each device manual to know the usage and precautions to be taken.
6. Don't use any unhealthy or improper electrical connection/ apparatus for V2L discharge function like loads with insulation failure, short circuit, improper 3pin/2pin plug, open cables without plug)
7. Don't allow the appliances/extension box cables to twist or overlapped.
8. Don't use the appliances if its cable sheath is damaged.
9. Don't use the electric devices which require continues power supply like medical equipment. since AC power supply may get interrupt based on the vehicle condition
10. Don't use the load which required high power at the starting/initial operation
11. Don't use the loads which is sensitive to Inverter type AC supply
12. Don't touch V2L adaptor socket side during V2L function
13. Don't keep the V2L adaptor caps open after the use to ensure it is not exposed to mud/metal particle etc.
14. Don't start V2L charging function if Vehicle SoC is lesser than 30%.
15. Don't perform V2L charging during rain or in any situation where it might be exposed to water
16. Don't press V2X switch and fascia switch together to stop the function.( keep minimum 5sec delay)
17. Don't disengage the park brake during V2L charging
18. Don't mishandle the V2L adaptor.
19. Do not insert the V2L connector when vehicle is in Crank or EV ready condition.
20. Don't shift the gear
21. Don't disassemble or remodel the V2L adaptor
22. Don't Drop the V2L adaptor to cause high impact and don't keep heavy objects over the adaptor

**Vehicle Ignition ON state**

1. Turn ON the source vehicle ignition. Make sure to keep the vehicle in Ignition ON mode throughout the procedure.
2. Make sure to engage the EPB.
3. Make sure to keep the vehicle and the V2L adaptor in dry environment/in shade.
4. Remove the caps & connect the V2L adaptor gun to the source vehicle.
5. Connect external load to the V2L adaptor 3pin socket.
   - Make sure that Electrical loads to

be used for V2L charging are healthy/in good condition and ensure the relevant cables and plugs of loads are connected properly.

- Total power consumption of the loads used should be lesser than 3.3Kw and it is recommended to use the loads with Power factor greater than 0.85
- In case of multiple loads, it is recommended to use extension box with MCB (16A) & with M Type plug and socket.

6. Press the V2X switch to start the 220V AC power supply.( check for the HMI).
7. Ensure safety precaution against the live 220VAC voltage in the V2L adaptor
8. Turn on the loads.
9. Check telltale indication in instrument cluster to ensure discharging is initiated/in progress.( check for the HMI)
10. Check for the telltale indication frequently when the V2L is in progress to ensure there is no interruption/fault.
11. To stop the V2L charging, first switch off the External loads and then Press V2X switch in the vehicle to stop the AC power supply and Go to step 14 .( check for the HMI)
12. V2L charging function will automatically stop if the source vehicle SOC goes below 30% (Configurable). In that case go to step 14.( check for the HMI & telltale indication on instrument cluster)
13. In case V2L charging gets interrupted from vehicle side due to any fault, Press the Gun unlock fascia switch in vehicle and completely remove the gun while keeping the vehicles in Ignition ON and repeat from step 1
    - If the issue still remains, Press the Gun unlock fascia and completely remove the gun. After that vehicle should brought in to ignition OFF state. Keep the vehicles in Ignition OFF state for 30sec. Then repeat from Step 1.
    - If the charging get interrupted again from vehicle side go to step 14 to 15 and vehicle along with the V2L adaptor need to be taken to TATA MOTORS Authorised Service Centre.
14. Switch off the Connected Loads then Press Fascia switch and remove the V2L adaptor and connected loads. (Close the V2L adaptor caps to ensure it is not exposed to mud/metal particle etc.)
15. Turn OFF the vehicle ignition.

**DON'T'S**

1. Don't switch off the vehicle Ignition during V2L charging
2. Don't crank the vehicle during V2L charging
3. Don't use unauthorized V2L adaptor
4. Don't use any unhealthy or improper electrical connection/ apparatus for V2L charging. ( e.g.: loads having power consumption>3.3Kw ,insulation failure, short circuit, improper 3pin/2pin plug, open cables without plug)
5. Don't keep the V2L adaptor caps open after the use to ensure it is not ex-

posed to mud/metal particle etc.

6. Don’t start V2L charging function if Vehicle SoC is lesser than 30%.
7. Don’t perform V2L charging during rain or in any situation where it might be exposed to water
8. Don’t press V2X switch and fascia switch together to stop the function.( keep minimum 5sec delay)
9. Don’t disengage the EPB during V2L charging
10. Don’t mishandle the V2L adaptor.
11. Do not insert the V2L connector when vehicle is in Crank or EV ready condition.

## KEYS

A key is an electronic access and authorization system available as a standard feature with your vehicle.

### Unlocking Principle

The transponder in the ignition key carries a Unique Identification Code (UID). The vehicle unlocks when the code on the key matches with the code on the vehicle Control Unit (VCU). In case of PEPS variant, Immobilizer function is provided by PEPS ECU.

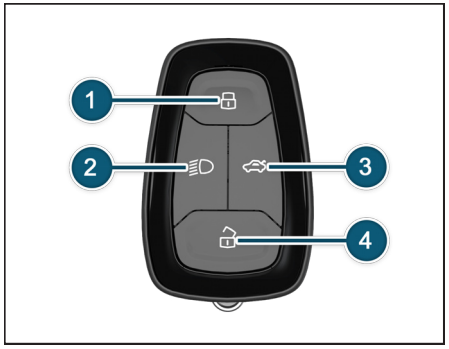
### Loss of Keys

If one of the keys is lost, Contact the TATA MOTORS EV Authorised Service Centre immediately.

**⚠ WARNING**

- Do not turn 'ON' ignition switch by using key with any type of metal wound around its grip or in contact with it. This may be detected as abnormal condition by immobilizer and prevent vehicle from starting.
- Do not leave the key in high temperature areas. The transponder in it will behave abnormally when reused.

### Smart Key (PEPS)(if equipped)




Keep the smart key with user to perform the passive access. It is used for locking, unlocking and starting the vehicle.

1. Locking all doors
2. Approach Light
3. Tail gate opening
4. Unlocking all doors

**1. Locking All Doors**

Press the lock button once (1) to lock all the doors of the vehicle. Successful lock will be indicated by two flash of turn signal

indicators. If lock button is pressed on the key with the any door open, locking-unlocking takes place with audible warning indicators do not flash.

**2. Approach Light For Short Press**

This feature helps to find and reach the parked vehicle. When you press approach light button (2) once, low beam, roof lamp and position lamps will turn 'ON'. This feature helps to find and reach the parked vehicle or to reach home in dark/ cloudy conditions after parking. To switch 'OFF' the approach lights, press and release the same button or it automatically turns 'OFF' after certain time.

**Approach Light for Long press**

When user press the approach light long press button (2) more than 3 second, Vehicle display the Battery SoC.

**3. Tail Gate Opening**

Press the tail gate opening button once (3) to unlock the tailgate with in authentication range of Smart key i.e. 1 to 1.5 meters.

**4. Unlocking All Doors**

Press the unlock button once (4) to unlock all the doors. Successful unlock will be indicated by one flash of turn signal indicators.

**ⓘ NOTE**

*If smart key battery is low/drained or vehicle battery is low/drained, user can unlock and enter into vehicle by using mechanical key blade, which is present inside the smart key.*

**Emergency Key Blade IN / OUT**


Slide the knob (1) to release the key. Pull the key blade (2) out.

**Smart Key Features**

**Vehicle Search**

In vehicle locked condition, if lock button on smart key is pressed, the turn indicators of vehicle flash 4 times. In vehicle locked condition, if lock button on smart key is pressed, the turn indicators of vehicle flash 4 times.

**Auto Locking / Unlocking Of Doors / Auto Relock**

In PEPS variants, door will get unlocked when ignition is OFF by pressing Start/Stop switch. In PEPS variants, door will get unlocked when ignition is OFF by pressing Start/Stop switch.

**Anti-grab / Anti-scan Coding**

The remote control set of this security system is protected against the use of devices called 'scanners' and 'grabbers' which can record and reproduce some types of remote codes.

**Important Tips**

- Don't operate Unlock button of remote in the vicinity of your vehicle, as it could lead to an unintentional unlock-

ing your vehicle.

- For battery, replacement procedure refer ‘MAINTENANCE’ section.
- Do not remove the battery connection of the vehicle while the vehicle has been locked by remote.

**Smart Key Precautions**

1. If smart key is close to radio transmitter such as radio station or an airport which can interfere with normal operation of the transmitter.
2. If smart key is near a mobile two way radio system or a cellular phone, then it will not work properly.
3. If another vehicle’s smart key is being operated close to your vehicle, signal will fluctuate.

**ⓘ NOTE**

*Keep smart key away from electromagnetic materials that blocks electromagnetic waves to the key surface.*

**Force Panic ON Operation**

When vehicle is in OFF condition, if we press lock button and unlock button simultaneously, Force panic operation gets activated. In this case, turn indicators of vehicle start flashing and horn will blow automatically. When vehicle is in OFF condition, if we press lock button and unlock button simultaneously, Force panic operation gets activated. In this case, turn indicators of vehicle start flashing and horn will blow automatically.

**Force Panic OFF Operation**

By pressing any button of smart key, Force panic operation gets deactivated.

## DOORS

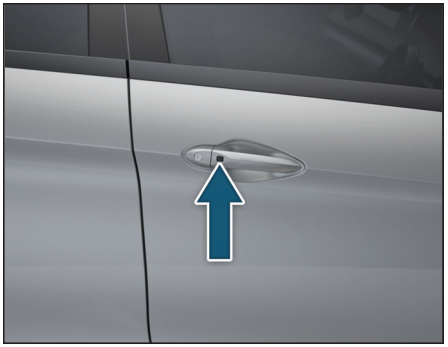
### Option 1- Door Locking / Unlocking with Key from Outside


Driver door can be locked or unlocked from outside using the key blade.

Insert the key and turn it clockwise to lock and anticlockwise to unlock the door.

### Option 2 - Door Locking / Unlocking using Door Handle Switch (DHS)

To lock/unlock all the doors without operating smart key button/ key blade.



Press the door handle switch (DHS) provided on the driver door to lock/unlock all the four doors except Tail gate.

**ⓘ NOTE**

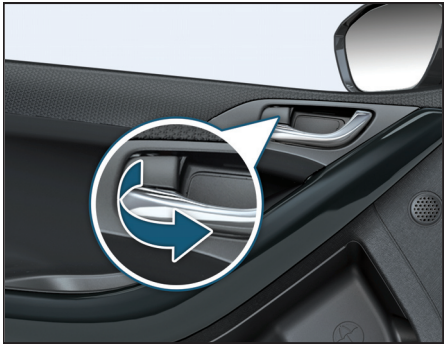
- *Authentication range for smart key shall be 1 to 1.5 meters from outside the respective door or tail gate.*
- *Passive entry only works during ignition off.*

### Horn Honking when Door Locking using Door Handle Switch (DHS)

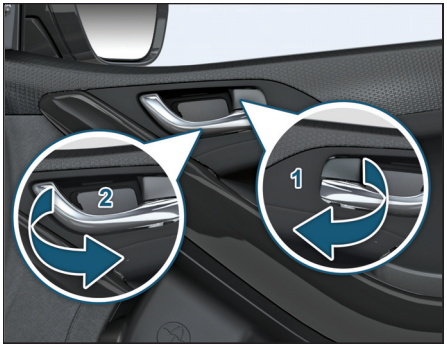
If vehicle is in unlock condition and smart key is not available, (i.e. Smart Key is away from authentication range) and if you try to lock the vehicle through door handle switch then vehicle horn honking gets activated for 9 sec.

If vehicle is in unlock condition and Smart key is present inside the vehicle. If you try to press the door handle switch then vehicle horn honking gets activated for 9 sec.

### Locking / Unlocking The Doors From Inside



All doors can be opened from inside by pressing knob on driver door and independently on other doors.




Pull the door opening knob (1) and then opening lever (2).

**ⓘ NOTE**

*There is a single pull override feature on driver door. All door can be unlocked by inner handle without operating lock knob of inner handle.*

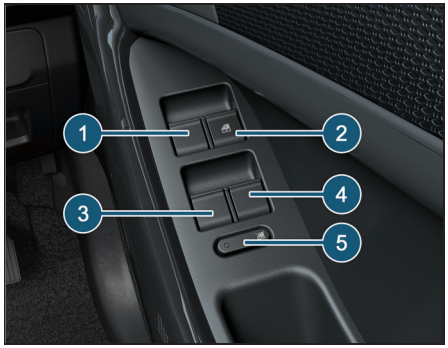
### Rear Door Opening

Door opening handle is provided on the side of the window.

To open the door, press the lever provided inside the handle and pull.

## WINDOWS

### Power Windows




Window glasses 1-2-3-4 on all four doors can be operated by switches provided on the main control panel located on the driver's arm rest. They work only when the key is in the 'IGN ON' position.

**ⓘ NOTE**

*Power windows can be operated for 30 seconds in 'IGN OFF' and 'KEY OUT' positions, provided the doors are closed.*

### Express Up

Window glass can be closed by single pull of the switch. Express up feature is provided for the driver's door only.

### Anti-Pinch Function (if equipped)

The Anti-pinch function will stop window upward movement if any obstruction or resistance detected.

Thus, it gives full and reliable protection for hand, neck etc. Anti-pinch function is provided for driver door only.

### Anti-pinch Inhibition

After 3 successive anti-pinch reversals with less than 5 seconds delay between each reversal in switch operated mode, Anti-pinch function shall be deactivated until complete closed condition is detected.

### Express Down

Window glass can be opened by a single long press of the switch (1). Express down feature is provided for the driver's door only.

### Inhibit Switch

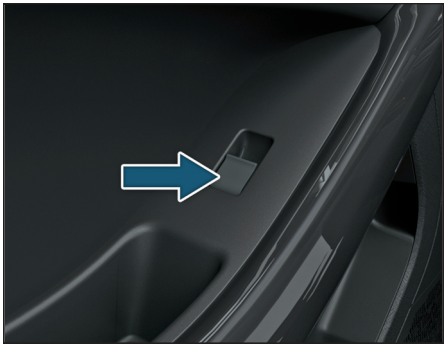
When switch (5) is pressed, amber light turns 'OFF'. The individual switches provided on other doors are not functional. It can be only operated by driver side switch. As the switch is depressed amber light turns ON and individual switches became not functional. It can be only operated by driver side switch.

**⚠ WARNING**

- If children operate the windows they could get trapped, particularly if they are left unsupervised. There is also a risk of injury.
- Activate the window inhibit feature when children are travelling. When leaving the vehicle, always take the key with you and lock the vehicle. Never leave children unsupervised in the vehicle.

### Individual Switches

Individual switch has been provided on all doors.



To close the glass pull the switch in upward direction.

To open the glass press the switch in downward direction.

## BONNET AND CHARGING FLAP

### Bonnet Opening

1. Make sure to engage the parking brake for your safety.
2. Pull the bonnet release lever. It will pop up slightly.
3. Raise the bonnet slightly and with your finger slide the secondary lock lever.

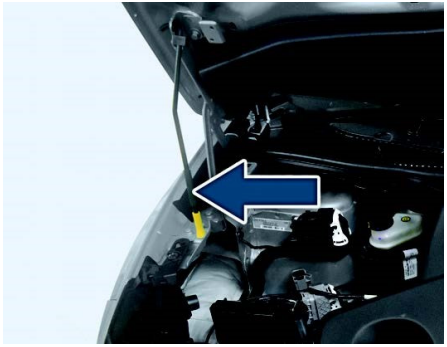
**ⓘ NOTE**

*Make sure that the wiper arms are not raised before you lift up the bonnet to avoid damaging the wiper arms and the bonnet.*

4. Lift the bonnet up. Pull the bonnet stay rod from its clip and insert the free end into the slot provided on frame.

**⚠ CAUTION**

Insert the stay rod into the hole securely. If the rod drops off, your body may be caught below the bonnet.



### Bonnet Closing

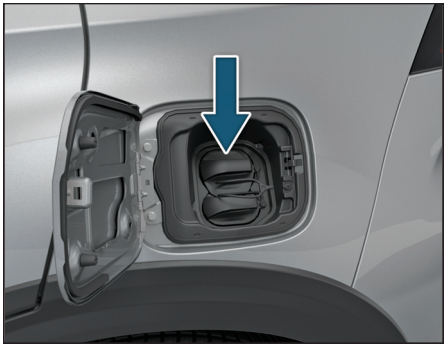
1. To close the bonnet, hold the bonnet by one hand, disengage the stay rod and clamp it back properly.
2. Lower the bonnet close to the bumper, then let it drop down.

**⚠ WARNING**

Ensure that the bonnet is properly locked before driving or it can fly up unexpectedly during driving.

### Opening Charging Flap

1. To release the charging flap, pull the lever located at the right hand side below the driver seat.
2. To open the charging flap, turn the charging lever counter clockwise.



To unlatch the flap, pull the lever located on the right hand side below the driver seat.

If charge cap needs replacement, make sure that it is replaced by a genuine cap at TATA MOTORS Authorised EV Service Centre only.

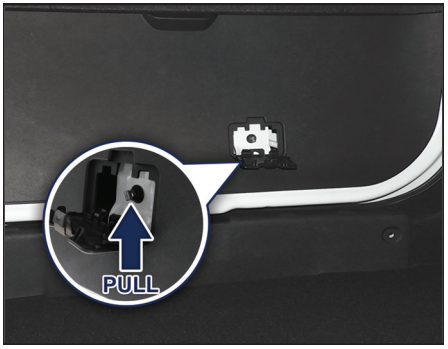
**Closing charging flap**

Turn the charging cap clockwise and gently push the flap till it gets locked

## TAIL GATE OPENING

| Option | Image | Operation |
|---|---|---|
| Option I<br>Using Smart Key |  | Press a tail gate opening button on remote and release. To close, slam the tail gate to latch and it gets locked.<br>Note: vehicle to be in authentication range. |
| Option II<br>Through Fascia switch |  | To open the tail gate, press the switch located on fascia switch. |
| Option III<br>Using DHS on tail gate |  | DHS on tail gate is pressed with valid key in the authentication range, the tail gate gets unlatched. To close, slam the tail gate to latch then it gets locked. If the valid smart key is left inside the trunk then tail gate gets unlocked. |

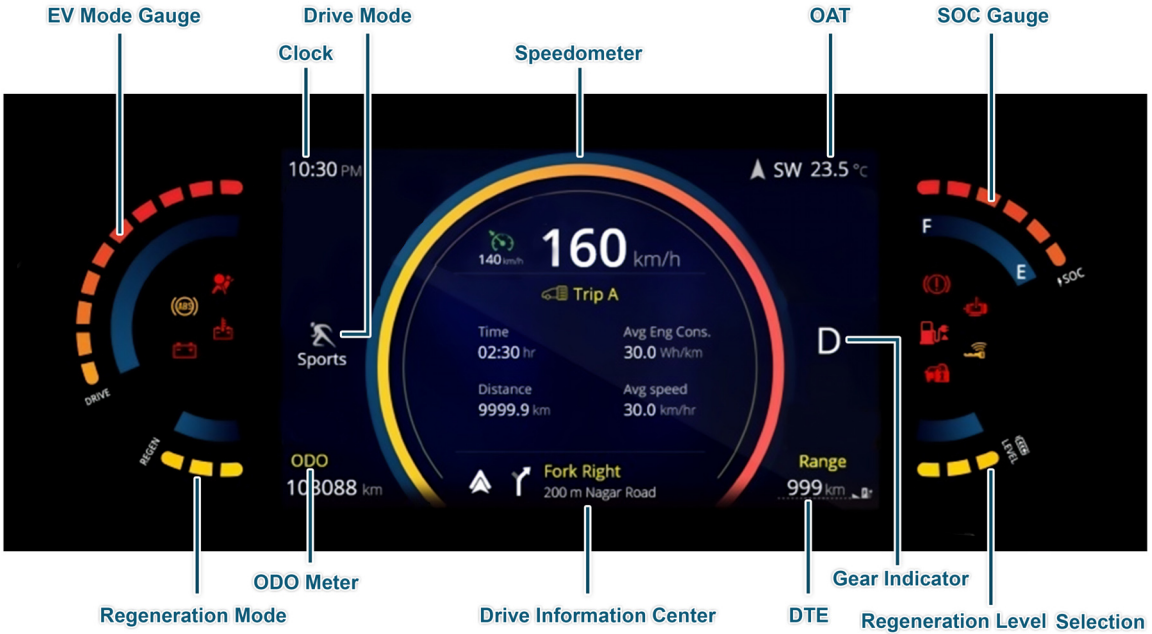
## Emergency Tailgate Opening




In case of electrical malfunction, you can unlock the tailgate from inside as per procedure given below:

1. Fold the rear seat to access the tailgate opening knob.
2. Open the knob cover.
3. Pull out the knob to open the tailgate.

## DIGITAL DISPLAY (7” Inch)(If equipped)



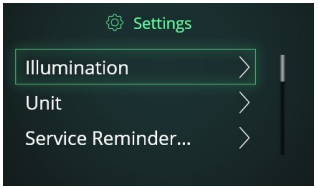
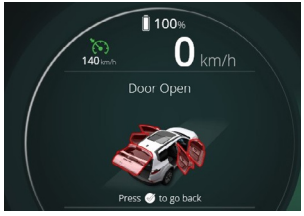

NOTE: All indicators and values are for illustration purpose only.

| Gauge Name | Information | Note/warning |
|---|---|---|
| Speedometer | The Speedometer Indicates the actual vehicle speed in km/h | • At every key IN and Ignition ON, the speedometer Bar moves to MAX and return to '0' position.<br>• This is welcome strategy and self-check feature<br>• In vehicle running condition if the Speedometer is not showing the Vehicle speed, then take the vehicle to TATA MOTORS EV Authorised service centre. |
| Odometer | Odometer Indicates distance traveled by vehicle. | • The odometer reading does not return to 0 when maximum value is reached, the display will freeze to maximum value. |
| SOC Gauge | SOC (State of Charge) gauge indicates the battery state of charge to user in percentage | • When battery SOC goes below 5%, first Bar in gauge will start blinking.<br>• Do not drive the vehicle with low SOC. |
| EV mode Gauge | • This function provides instantaneous power consumption mode of vehicle during driving and displayed in the instrument cluster.<br>• During the IGN ON of the vehicle, EV mode gauge will starts sweep from REGEN mode to DRIVE mode and then back to the REGEN mode to indicate the welcome strategy behavior.<br>• For DRIVE mode, LED BARs will be ON as per the power consume | When all functional modes are activated, then take the vehicle to TATA MOTORS EV Authorised service centre. |

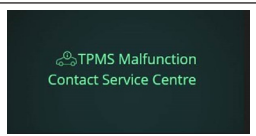
| Gauge Name | Information | Note/warning |
|---|---|---|
| | in ECO & SPORT drive by taking instantaneous power consumption input.<br>• For REGENERATION mode, LED BARs will be ON as per energy re-cuperation while driving by taking instantaneous power consumption input. | |
| Distance To Empty (DTE) | • Range indicates approximate distance (km) that the vehicle can travel with current battery charge.<br>• Range shall be indicated both in IGN ON & IGN OFF conditions.<br>• In IGN OFF when charger is connected and charging is happening then Range value will display as long as screen is activated in the cluster.<br>• 'RECHARGE' shall be displayed which indicates that it's the time to take your vehicle to the nearest charging station and the distance that a vehicle can travel with current charge is 20 Kms. | • If Range is displayed as '—-', take vehicle to TATA MOTORS EV Authorised Service Centre.<br>• The Range values may vary significantly based on driving conditions, driving habits and condition of the vehicle.<br>• The Range value is an estimate of the available driving distance.<br>• Change of distance unit is not applicable. |

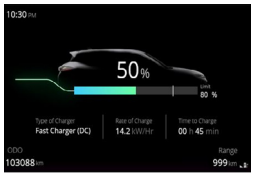
| Gauge Name | Information | Note/warning |
|---|---|---|
| Regeneration Level Selection | • This function provides Regeneration Level settings to user from Minimum to Maximum in steps of Level 0, Level 1, Level 2and Level 3 of vehicle during driving and displayed in the instrument cluster. | • The “Maximum” Regen Level setting provides the maximum amount of regenerative braking power & it recaptures the most energy and reduces wear & tear on the brakes.<br>• The “Minimum” Regen Level setting incorporates a reduced regenerative braking force that recaptures less energy but allows the vehicle to coast farther than in the “Maximum” Regen Level. |

## DRIVER INFORMATION SYSTEM (DIS)

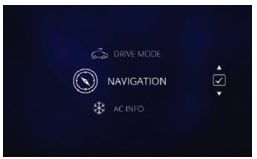
| Driver Information | System Image | Description |
|---|---|---|
| Service reminder |  | User can select Service Reminder Screen using controls on steering wheel to navigate & by pressing Set Button in Settings Screen.<br>Service reminder is a feature to alert the user for service action.<br>When distance since last service meet the maximum distance criteria, a service screen will get activated for the user to indicate the service of the vehicle has to be done along with the tell tale indication.<br>User can reset the Service Reminder Symbol by right/left & SET buttons on the steering wheel. |
| Outside Ambient Temperature |  | This displays outside ambient temperature in units of °C with the resolution of 1°C.<br>**Note:** *If display shows '- - ', take your car to TATA MOTORS EV Authorised Service Centre.* |
| Door Ajar |  | This feature monitors the Door Input and warns Driver if any Door is Open<br>**Note:** *If any other door is open roof lamp will be 'ON' provided that roof lamp switch is in ON position.* |

## INSTRUMENT CLUSTER

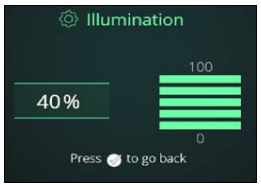
| Driver Information | System Image | Description |
|---|---|---|
| Current Gear Indication |  | Current gear engaged by the transmission shall be displayed on DIS.<br>**Note:** *If it is not displayed, it means 'Fault' is occurred. In such case, take vehicle to TATA MOTORS EV Authorised service Centre.* |
| Seat Belt Reminder |  | The seatbelt warning indicator remains ON for 4 seconds, when ignition is turned ON. The warning lamp remains ON till all occupied seats belts are buckled.<br>If seatbelt remains unbuckled and vehicle speed goes beyond 15 kmph, then final audio warning will go more than 90 seconds<br>**Note:** Once the seatbelts are fastened, the buzzer and warning lamp turns OFF. Seatbelt reminder remains OFF when reverse gear is engaged. |
| I-TPMS |  | When any of the Tire Pressure drops significantly below Recommended levels then I-TPMS Isolated / Non-Isolated system tell tale comes ON with "Check all tire Pressure and Reset the TPMS system" Text Message. |
| TPMS ERROR |  | When there is fault in I-TPMS Isolated / Non-Isolated system the cluster will show the Text Warning. |

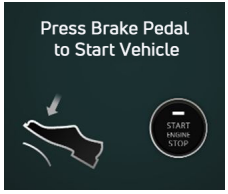
| Driver Information | System Image | Description |
|---|---|---|
| Charger not connected |  | This function displays the Charger Connected status information.<br>When charger is not connected. |
| |  | When Charger is connected and not charging in IGN ON. |
| Charger Connected |  | When Charger is connected and charging ON in IGN ON. |
| |  | When charger is connected in IGN OFF. |

| Driver Information | System Image | Description |
|---|---|---|
| Energy Flow Animation and Energy Histogram |  | This indicate the energy flow from the battery to the front wheels via electric motor or the flow to battery from high voltage components in case of regenerative braking.<br>Animation = Forward (Battery to Motor) |
| |  | Animation = Reverse (Motor to Battery) |
| IVI Info on IC |  | The IVI data including media Meta data, Navigation data is shared from HU via CAN interface to be projected on IC.<br>IVI Info will not be displayed, if Settings screen is requested. |
| Average Energy Economy for Trip A and Trip B |  | Displays “Average Energy consumption” for trip A or B since it was reset. Resolution: 0.1 Wh/Km. Average Energy Consumption shall Reset to 0 when respective Trip meter is reset.<br>Average Energy Economy shall be displayed as ‘—.-‘for initial 0.5 km of respective trip. Once 0.5 km distance is covered, Average Energy Economy shall be displayed. |

| Driver Information | System Image | Description |
|---|---|---|
| |  | Even after 0.5 km distance covered for particular trip, Average Energy economy is displayed as '—-'take vehicle to TATA MOTORS EV Authorised Service Centre.<br>**Note:**<br>• AEE value is estimate of Energy economy. It may vary significantly based upon driving conditions, driving habits and condition of vehicle.<br>• Average Energy Consumption shall get Reset to 0 when Battery is removed and refitted. |
| Distance To Empty |  | DTE indicates approximate distance (km) that the vehicle can travel with current battery charge. DTE shall be indicated both in IGN ON & IGN OFF conditions.<br>In IGN OFF when charger is connected and charging is happening then DTE value will display as long as screen is active in the cluster.'RECHARGE' shall be displayed which indicates that it's the time to take your vehicle to the nearest charging station and the distance that a vehicle can travel with current charge is 20 Kms. |
| Infotainment Information On Instrument Cluster |  | The instrument cluster will display information like media, navigation and FM. |

## INSTRUMENT CLUSTER

| Driver Information | System Image | Description |
|---|---|---|
| Settings Screen |  | User can enter into setting screen by pressing select button while being in setting screen.<br>Following screen gets displayed into setting screen |
| Illumination Setting |  | User can select Illumination Setting by Scroll down & pressing Set Button in Setting Screen provided park lamp ON.<br>User can increase the illumination from (20% to 100%) in 5 steps by using UP & SET Button.<br>User can decrease the illumination from (100% to 20%) in 5 steps by using DOWN & SET Button. |
| Service Reminder Reset |  | User can select Service Reminder Screen by Scroll down & pressing Set Button in Setting Screen.<br>User can reset (Yes / Cancel) the Service Reminder by UP / DOWN & SET Buttons.<br>Note:<br>In the Setting menu if there is no user input for 10 secs the previous screen shall be displayed. |
| Clock |  | Instrument Cluster equipped with digital clock which indicates current time in 12 / 24 hours mode. |

| Driver Information | System Image | Description |
|---|---|---|
| State of Charge |  <br>  | SoC (State of Charge) gauge indicates the battery state of charge to user in percentage. |
| Press Brake Pedal |  | Before you start the vehicle, press the brake pedal and then press the start/stop button. |

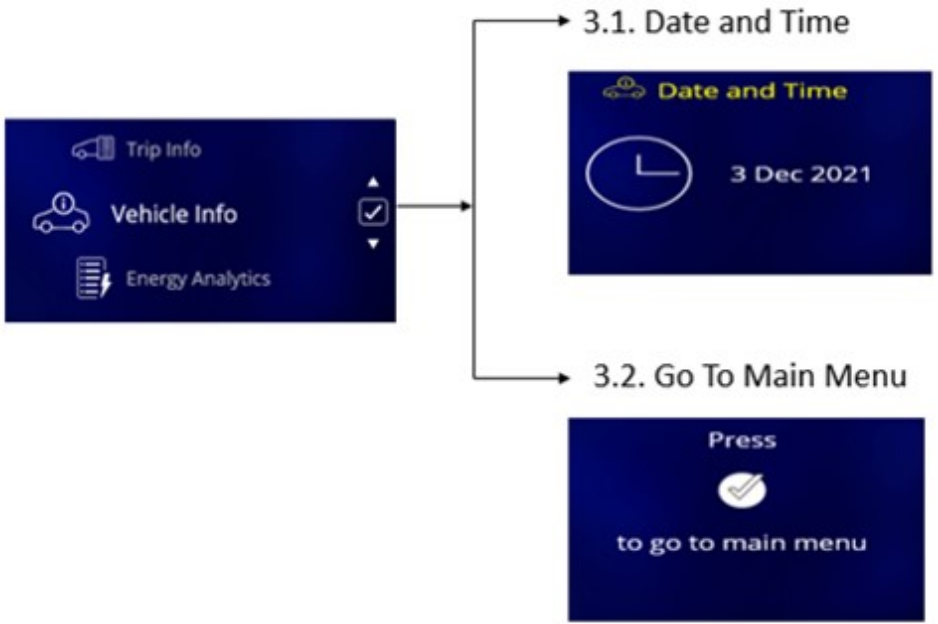
### Driver Information System (DIS) Setting

Operate the Up & down and Set Switch on steering wheel to see the Trip Info, Drive Assist, Vehicle Info, Notification, Navigation, Layout and Settings Window.

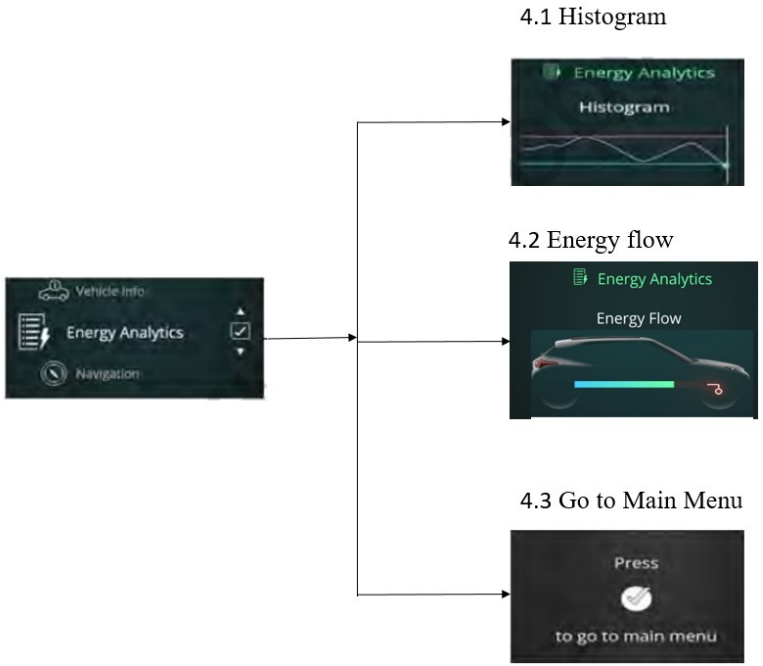
Operate the Set Switch on steering wheel to reset TRIP A, AEE A, Average Speed A, Trip Time A (When TRIP A is displayed) and reset TRIP B, AEE B, Average Speed B and Trip Time B (When TRIP B is displayed).

**Trip Information**

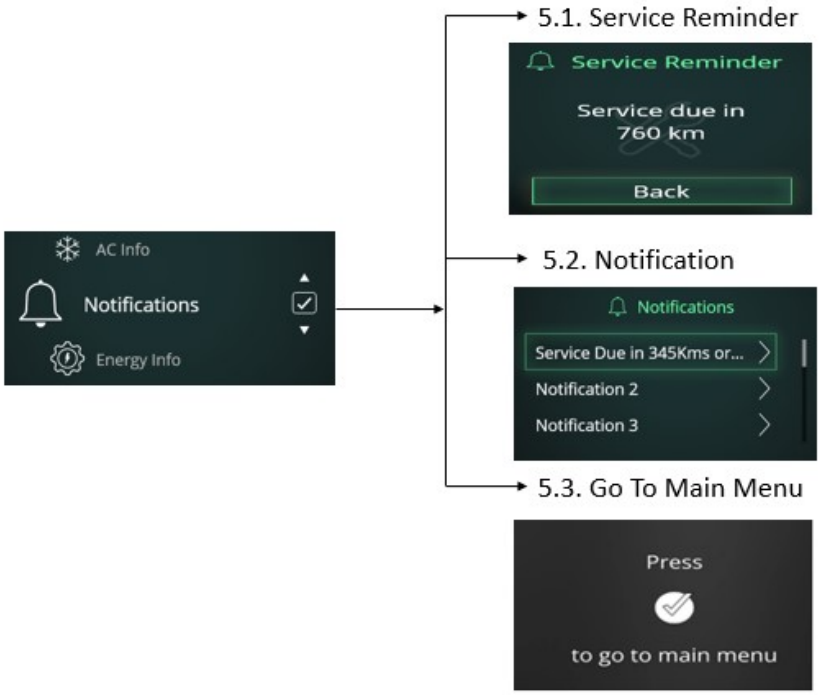
**Vehicle Information**



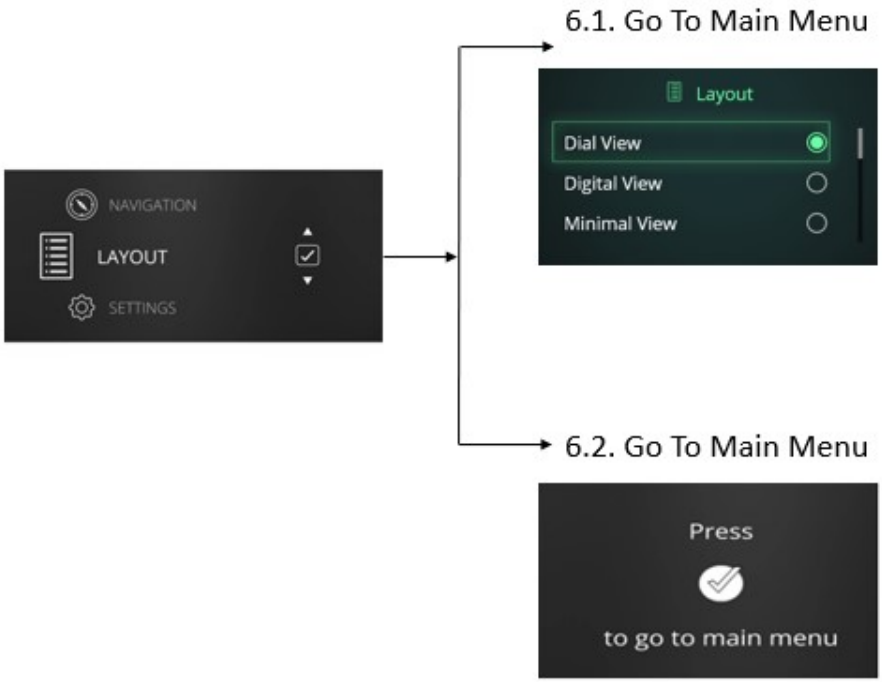
## Energy Analytics



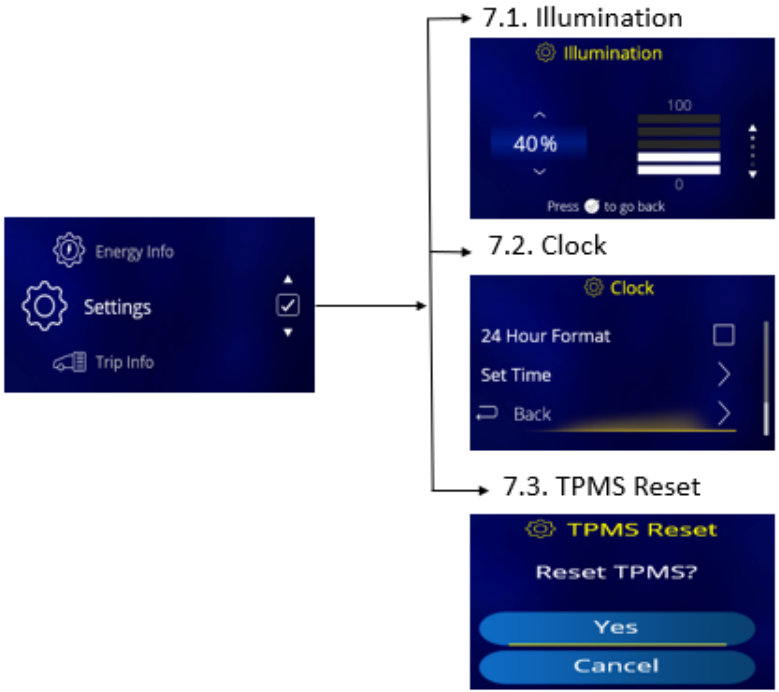
**Notification**

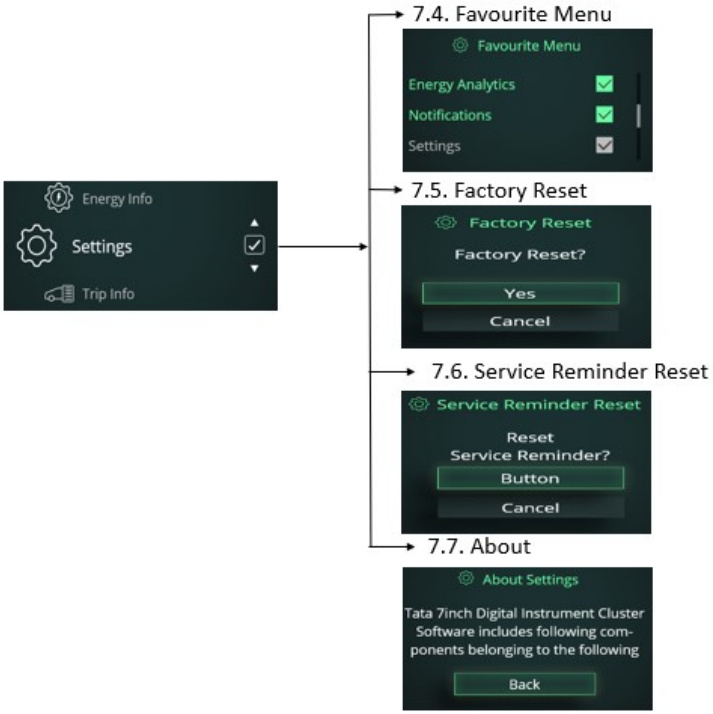


**Layout**

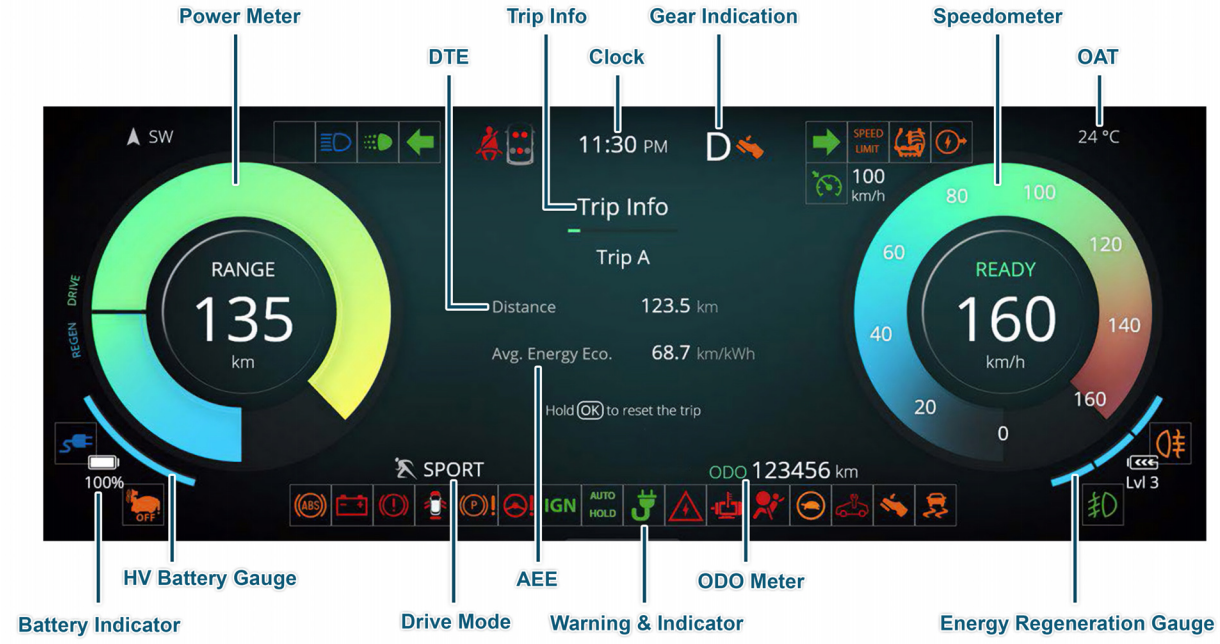

6.1. Go To Main Menu
NAVIGATION
LAYOUT
SETTINGS
Layout
Dial View
Digital View
Minimal View
6.2. Go To Main Menu
Press
to go to main menu

## Setting Screen




Energy Info
Settings
Trip Info
7.4. Favourite Menu
Favourite Menu
Energy Analytics
Notifications
Settings
7.5. Factory Reset
Factory Reset
Factory Reset?
Yes
Cancel
7.6. Service Reminder Reset
Service Reminder Reset
Reset
Service Reminder?
Button
Cancel
7.7. About
About Settings
Tata 7inch Digital Instrument Cluster Software includes following components belonging to the following
Back

## DIGITAL DISPLAY (10.25” Inch )




NOTE: All indicators and values are for illustration purpose only.

| Gauge | Information | Note/Warning |
|---|---|---|
| Speedometer | The Speedometer Indicates the actual vehicle speed in km/h | • At every key IN and Ignition ON, the speedometer Bar moves to MAX and return to '0' position.<br>• This is welcome strategy and self-check feature.<br>• In vehicle running condition if the Speedometer is not showing the Vehicle speed, then take the vehicle to TATA MOTORS EV Authorised service centre. |
| Odometer | Odometer Indicates distance travelled by vehicle. | • The odometer reading does not return to 0 when maximum value is reached, the display will freeze to maximum value. |
| SoC Gauge | SoC (State of Charge) gauge indicates the battery state of charge to user in percentage | • When battery SoC goes below 5%, first Bar in gauge will start blinking.<br>• Do not drive the vehicle with low SoC.<br>• When the battery is low or near to empty position, low battery warning tell-tale turns Red. Pop up message is displayed to connect the charger to the vehicle for charging. |
| EV mode Gauge | • This function provides instantaneous power consumption mode of vehicle during driving and displayed in the instrument cluster.<br>• During the IGN ON of the vehicle, EV mode gauge will starts sweep from REGEN mode to DRIVE mode and then back to the REGEN mode to indicate the welcome strategy behav | When all functional modes are activated, then take the vehicle to TATA MOTORS EV Authorised service centre. |

| Gauge | Information | Note/Warning |
|---|---|---|
| | ior.<br>• For DRIVE mode, LED BARs will be ON as per the power consume. | |
| Distance To Empty (DTE) | • Range indicates approximate distance (km) that the vehicle can travel with current battery charge.<br>• Range shall be indicated both in IGN ON & IGN OFF conditions.<br>• In IGN OFF when charger is connected and charging is happening then Range value will display as long as screen is activated in the cluster.<br>• 'RECHARGE' shall be displayed which indi-cates that it's the time to take your vehicle to the nearest charging station and the distance that a vehicle can travel with cur-rent charge is 20 Kms. | • If Range is displayed as '—-', take vehicle to TATA MOTORS EV Authorised Service Centre.<br>• The Range values may vary significantly based on driving conditions, driving habits, and condition of the vehicle.<br>• The Range value is an estimate of the available driving distance.<br>• Change of distance unit is not applicable. |
| Regeneration Level Selection | This function provides Regeneration Level set-tings to user from Minimum to Maxi-mum in steps of Level 0, Level 1, Level 2 and Level 3 of vehicle during driving and displayed in the instrument cluster. | • The "Maximum" Regen Level setting provides the maxi- mum amount of regenerative braking power & it recaptures the most energy and reduces wear & tear on the brakes.<br>• The "Minimum" Regen Level setting incorporates a reduced regenerative braking force that recaptures less energy but allows the vehicle to coast further |

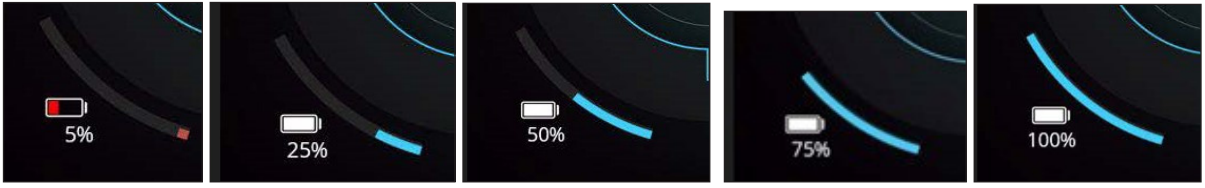
| Gauge | Information | Note/Warning |
|---|---|---|
| | | than in the “Maximum” Regen Level. |

### State of Charge (SoC) Gauge For High Voltage Battery

Provided in the instrument cluster as a tell-tale. It shows the charging status of the high voltage battery. Low charge or minimum position on the indicator indicates that there is not enough energy in the high voltage battery.

Full charge or max position indicates that the HV battery is fully charged.

- When driving on highways, make sure to check in advance if the HV battery is charged enough.
- When the bar turns red on the high voltage charge indicator, the low charge warning lamp turns ON to alert you of the battery level.
- At <25% SoC, Sports mode cannot be selected. Max speed can be attained. At <10% SoC, limp mode gets activated and speed limits are triggered.




### Action to be Taken When Charging Stops Abruptly

- Check the reason for interruption of charging.(Refer ‘Troubleshooting guide for Normal Charging’ table).
- Switch off the AC supply.
- Remove the charging gun from the charging inlet.
- Wait for 5 minutes.

- Restart the charging. (Refer charging procedure).

**Cleaning of Charging Inlet**

Covering the charging gun and charging inlet by dust cap will ensure protection from water and dust.

**Precautions to be Taken While Cleaning the Charging Inlet**

- Keep the vehicle lid always closed
- When the lid is open ensure that dust caps are in closed position
- During normal charging, make sure that DC charging cap is closed
- In case of any dust/mud/snow accumulation in the charging port and also on CCS2 especially actuator area, it can be cleaned with blowing air before charging.
- Allow the water to drain completely through drain holes.
- Allow the charging port to dry completely.

**ⓘ NOTE**

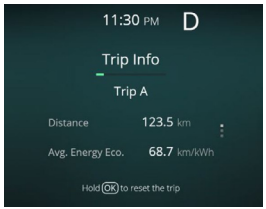
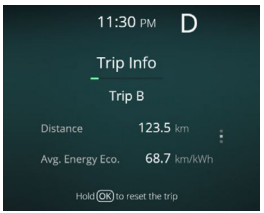
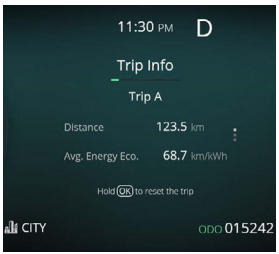
*Water entering into the charging port will always be drained through the drain system. If water is stagnant in charging port area call TATA MOTORS EV Authorised service centre to rectify the issue.*

## DRIVER INFORMATION SYSTEM (DIS)

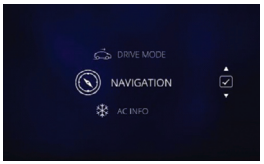
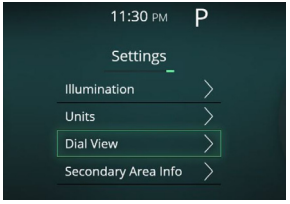
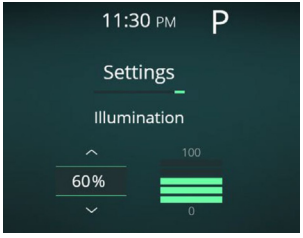
| Driver Information | System Image | Description |
|---|---|---|
| Service reminder |  | User can select Service Reminder Screen using controls on steering wheel to navigate & by pressing Set Button in Settings Screen. Service reminder is a feature to alert the user for service action. When distance since last service meet the maximum distance criteria, a service screen will get activated for the user to indicate the service of the vehicle has to be done along with the tell-tale indication. User can reset the Service Reminder Symbol by right/left & SET buttons on the steering wheel. |
| Outside Ambient Temperature |  | Displays outside ambient temperature in ºC.<br>***NOTE:*** *T*he temperature sensor is in the front bumper of the vehicle, therefore the temperature reading can be affected by heat reflection from the road surface. This can cause an incorrect temperature reading when speed is under low speeds or when stopped.<br>If display shows '- - ', take your car to TATA MOTORS EV Authorised Service Centre. |
| Door Ajar (if equipped) |  | This feature monitors the Door Input and warns Driver if any Door is Open<br>***NOTE:*** *If any other door is open roof lamp will be 'ON' provided that roof lamp switch is in ON position.* |

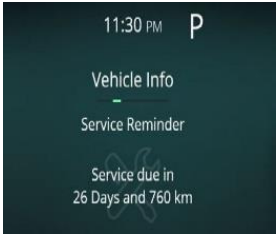
## INSTRUMENT CLUSTER

| Driver Information | System Image | Description |
|---|---|---|
| Current Gear Indication |  | Current gear engaged by the transmission shall be displayed on DIS.<br>**Note:** *If is displayed, it means 'Fault' condition. In such case, take vehicle* to TATA MOTORS EV Authorised service Centre. |
| Seat Belt Reminder |  | The seatbelt warning indicator remains ON for 4 seconds, when ignition is turned ON. The warning lamp remains ON till all occupied seats belts are buckled.<br>If seatbelt remains unbuckled and vehicle speed goes beyond 15 kmph, then final audio warning will go more than 90 seconds<br>Note:Once the seatbelts are fastened, the buzzer and warning lamp turns OFF. Seatbelt reminder remains OFF when reverse gear is engaged. |
| Critical Battery (Thermal Runaway) Malfunction |  | This message will appear in cluster along with audio warning to "Evacuate the vehicle". In case there is a critical malfunction in high voltage battery which can lead to thermal damage, this message will appear in cluster. Customer is recommended to park vehicle in safe zone and evacuate to avoid injury. |
| Slow charge up to 100% |  | It is recommended to slow charge vehicle to 100% SOC to ensure consistent performance and better health of high voltage battery. Once this message appears in cluster, it is recommended that user slow charges vehicle's high voltage battery to 100% SOC. |

| Driver Information | System Image | Description |
|---|---|---|
| Average Energy Economy for Trip A and Trip B |  <br>  | Displays “Average Energy consumption” for trip A or B since it was reset<br>Resolution: 0.1 Wh/Km<br>Average Energy Consumption shall Reset to 0 when respective Trip meter is reset.<br>Average Energy Economy shall be displayed as ‘—.-‘for initial 0.5 km of respective trip. Once 0.5 km distance is covered, Average Economy shall be displayed.<br>Even after 0.5 km distance covered for particular trip, Average Energy economy is displayed as ‘—-‘take vehicle to TATA MOTORS EV Authorised Service Centre.<br>Note:<br>• AEE value is estimate of Energy economy. It may vary significantly based upon driving conditions, driving habits and condition of vehicle.<br>• Average Energy Consumption shall get reset to 0 when Battery is removed and refitted. |
| Distance To Empty |  | DTE indicates approximate distance (km) that the vehicle can travel with current battery charge.<br>DTE shall be indicated both in IGN ON & IGN OFF conditions.<br>In IGN OFF when charger is connected and charging is happening then DTE value will display as long as screen is active in the cluster.<br>‘RECHARGE’ shall be displayed which indicates that it’s the time to take your vehicle to the nearest charging station and the distance that a vehicle can travel with current charge is 20 Kms. |

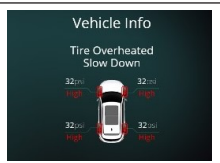
## INSTRUMENT CLUSTER

| Driver Information | System Image | Description |
|---|---|---|
| Infotainment Information On Instrument Cluster Display Unit |  | The instrument cluster will display information like media, navigation and FM. |
| Settings Screen |  | User can enter into setting screen by pressing select button while being in setting screen. |
| Illumination Setting |  | User can select Illumination Setting by Scroll down & pressing Set Button in Setting Screen provided park lamp ON.<br>User can increase the illumination from (20% to 100%) in 5 steps by using UP & SET Button.<br>User can decrease the illumination from (100% to 20%) in 5 steps by using DOWN & SET Button. |

| Driver Information | System Image | Description |
|---|---|---|
| Service Reminder Reset |  | User can select Service Reminder Screen by Scroll down & pressing Set Button in Setting Screen.<br>User can reset (Yes / Cancel) the Service Reminder by UP / DOWN & SET Buttons.<br>Note:<br>In the Setting menu if there is no user input for 10 secs the previous screen shall be displayed. |
| Compass screen |  | Compass Feature shall be used for navigation and orientation that shows direction relative to the geographic cardinal directions |
| Charging Limits |  | Set charging limit of the battery. The target charging level can be changed by 10%. Once the charging is completed as per set limit, the message is displayed |

| Driver Information | System Image | Description |
|---|---|---|
| TPMS (TYRE PRESSURE MONITORING SYSTEM) |  | User can select TPMS screen by scrolling up or down.<br>TPMS system tell-tale comes ON with Tire pressure value near the respective Tire with Recommended level" Text Message. |
| TPMS - MALFUNCTION |  | TPMS MALFUNCTION CONTACT SERV CENT" text warning comes 'ON' for 4 seconds when TPMS system malfunction. Take your vehicle to TATA MOTORS EV Authorised Service Centre. |
| TPMS - LOW TYRE PRESSURE |  | When any of the Tire Pressure drops significantly below Recommended levels then TPMS system tell-tale comes ON with "Low Tire pressure Inflate Tire" Text Message. |
| TPMS - HIGH TYRE PRESSURE |  | When any of the Tire Pressure increase significantly above Recommended levels then TPMS system tell-tale comes ON with "High Tire pressure Deflate Tire" Text Message. |

| Driver Information | System Image | Description |
|---|---|---|
| TPMS - AIR LEAKAGE |  | When any of the Tire Pressure drops significantly below Recommended levels then TPMS system tell-tale comes ON with “Leakage Detected Check Tires” Text Message. |
| TPMS - TIRE OVER-LOAD |  | When any of the Tire Pressure increase significantly above Recommended levels then TPMS system tell-tale comes ON with “Tire Overheated slow down” Text Message. |
| DDOA SCREEN ATTENTION LEVEL-5 |  | DDOA screen with Driver Attention Level 4(Attention Level in Yellow color) |
| DDOA SCREEN ATTENTION LEVEL-4 |  | DDOA screen with Driver Attention Level 4(Attention Level in Yellow color) |

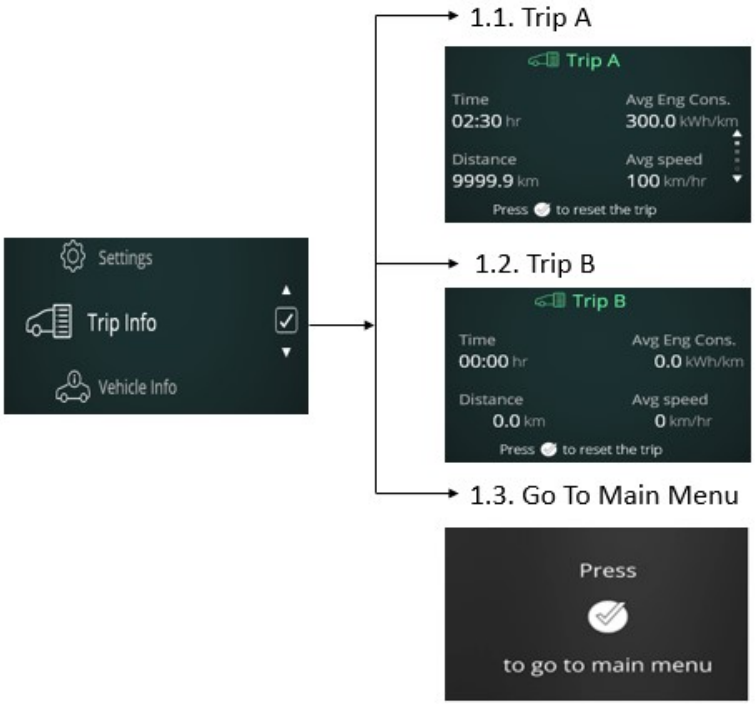
| Driver Information | System Image | Description |
|---|---|---|
| DDOA SCREEN ATTENTION LEVEL-3 |  | DDOA screen with Driver Attention Level 3 (Attention level In Amber Color) & with interrupt message for 4 seconds |
| DDOA SCREEN ATTENTION LEVEL-2 |  | DDOA screen with Driver Attention Level 2 (Attention level In A light RED color) & with interrupt message for 4 seconds |
| DDOA SCREEN ATTENTION LEVEL-1 |  | DDOA screen with Driver Attention Level 1 (Attention Level in RED color) & with interrupt message for 4 seconds |
| TPMS - TIRE OVER-LOAD |  | When any of the Tire Pressure increase significantly above Recommended levels then TPMS system tell-tale comes ON with “Tire Overheated slow down” Text Message. |

**Driver Information System (DIS) Setting**

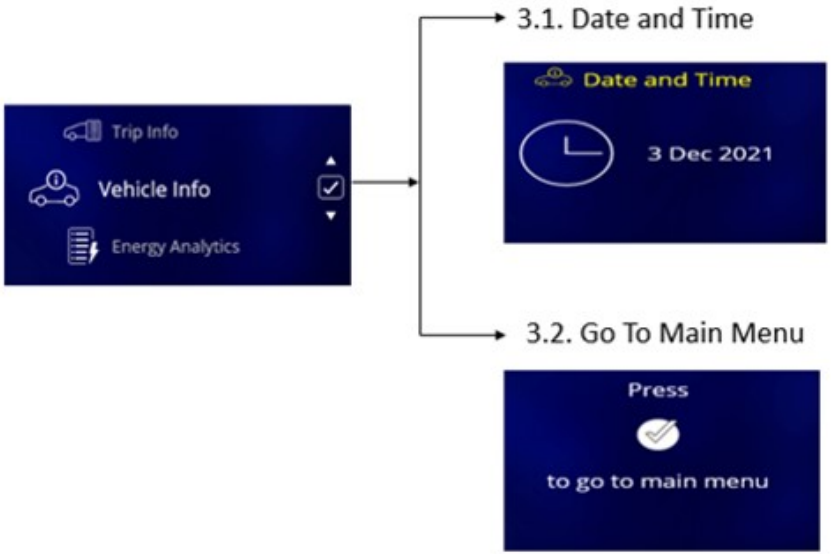
Operate the Up & down and Set Switch on steering wheel to see the Trip Info, Drive Assist, Vehicle Info, Notification, Navigation, Layout and Settings Window.

Operate the Set Switch on steering wheel to reset TRIP A, AEE A, Average Speed A, Trip Time A (When TRIP A is displayed) and reset TRIP B, AEE B, Average Speed B and Trip Time B (When TRIP B is displayed).

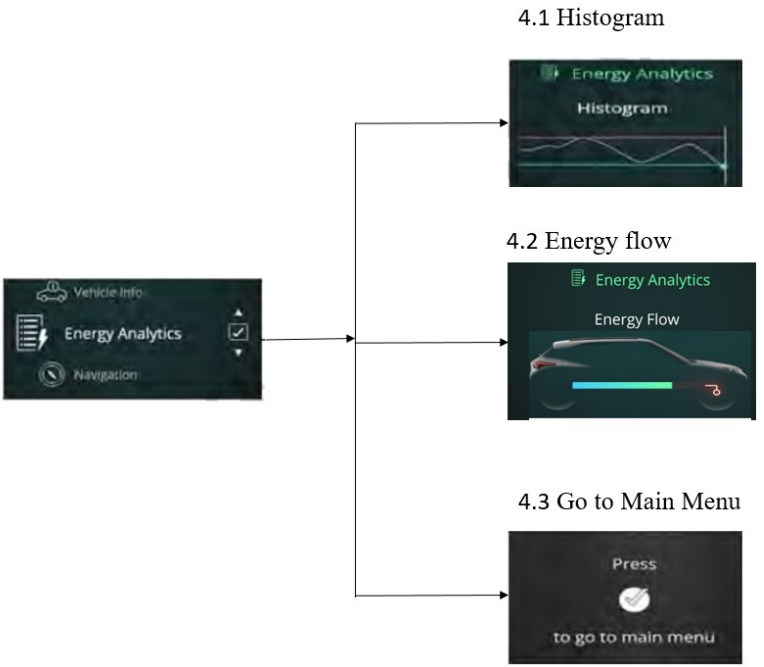
**Trip Information**



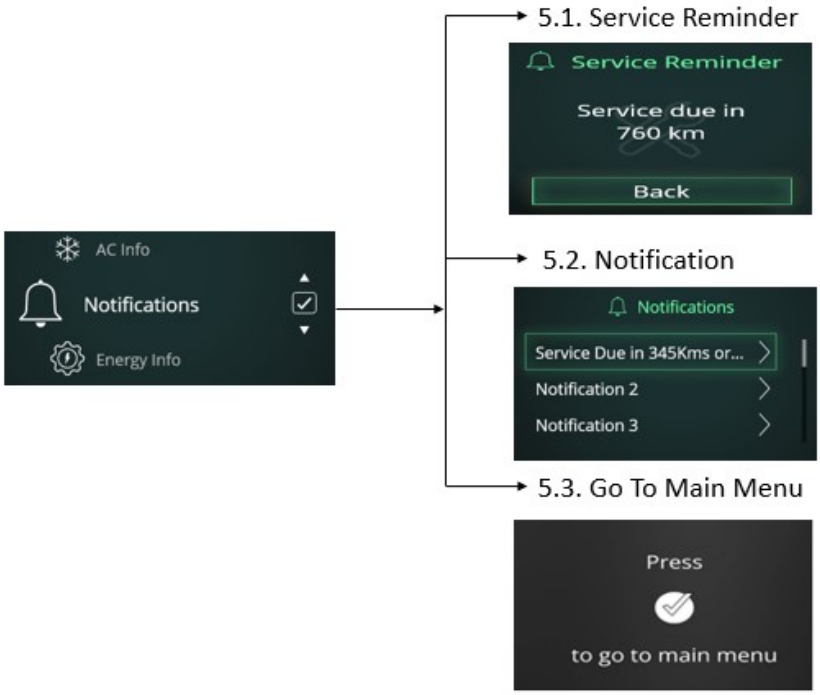
**Vehicle Information**



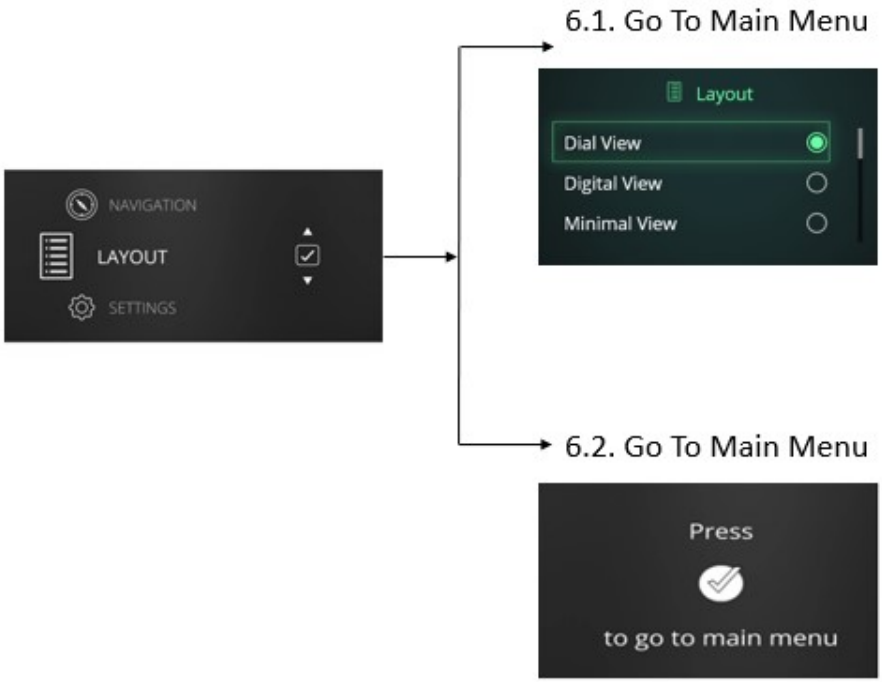
## Energy Analytics



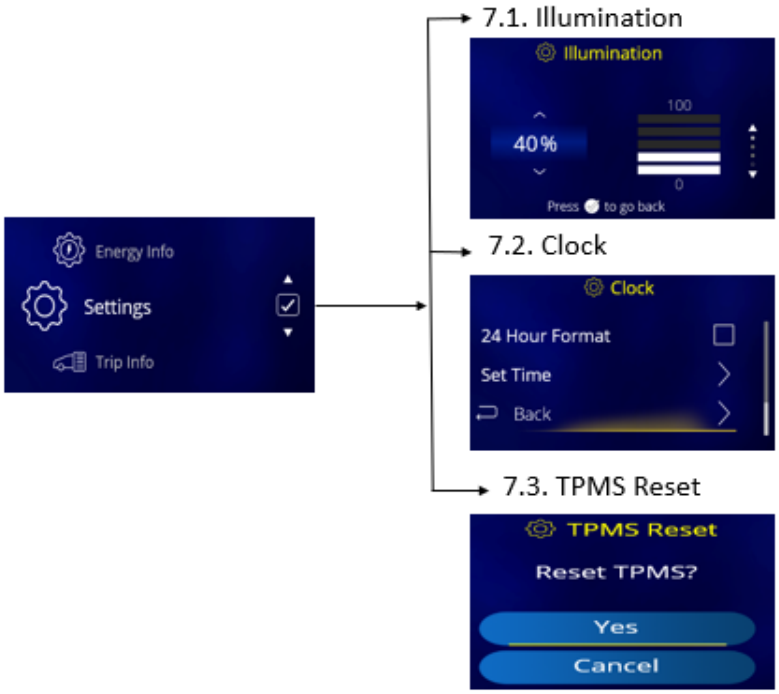
**Notification**

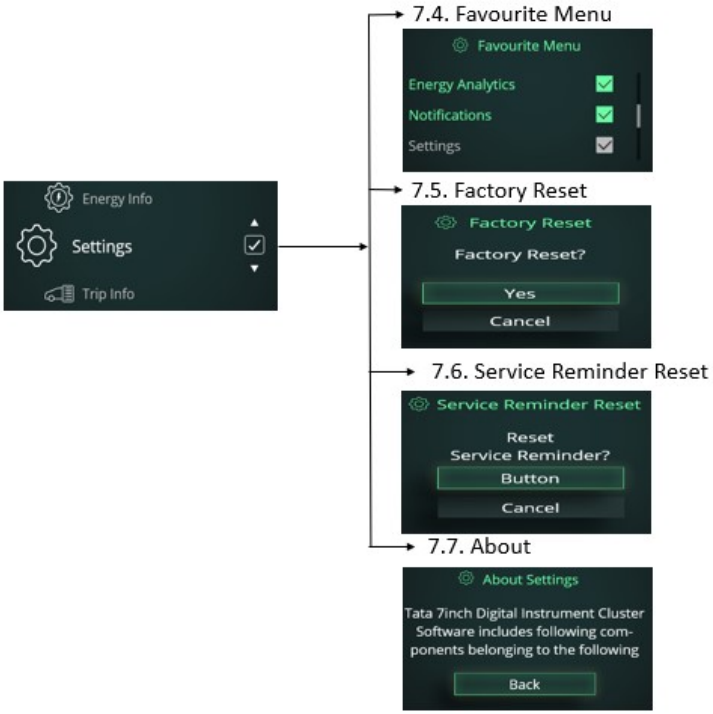


**Layout**


6.1. Go To Main Menu
Layout
Dial View
Digital View
Minimal View
NAVIGATION
LAYOUT
SETTINGS
6.2. Go To Main Menu
Press
to go to main menu

**Setting Screen**




Energy Info
Settings
Trip Info
7.4. Favourite Menu
Favourite Menu
Energy Analytics
Notifications
Settings
7.5. Factory Reset
Factory Reset
Factory Reset?
Yes
Cancel
7.6. Service Reminder Reset
Service Reminder Reset
Reset
Service Reminder?
Button
Cancel
7.7. About
About Settings
Tata 7inch Digital Instrument Cluster
Software includes following com-
ponents belonging to the following
Back

## WARNINGS and INDICATORS

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| Service Indicator | Amber/ Red |  | In case of Power Train Sensors (AC Charging Inlet Temperature Sensor, AC Linear Pressure Sensor etc.) & Actuators (Fan, Pump, Regen Switch, Eco / Sport Switch etc.) failure then this Amber indicator will glow. When there is high severity then Red indicator will glow. Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest. |
| Immobilizer (if equipped) | Red |  | 1. This lamp comes on when the system disables vehicle start if the original key is not used.<br>2. Lamp blinks: Vehicle is in immobilized condition when key is not inserted.<br>3. Lamp ON: Problem with key/system. Contact a TATA MOTORS EV Authorized Service Centre.<br>4. Lamp OFF: Normal condition (Authenticated user) and vehicle will start. |
| Turn Signal | Green |  | Indicates direction indicated by the turn signal.<br>Blinks along with buzzer while operating left/right turn indicator only when ignition is switched 'ON'. The direction indicator arrow on Instrument Cluster flashes along with external indicator lights as selected. Both tell tales shall blink simultaneously when Hazard switch is pressed irrespective of Ignition ON and the Tick-Tock sound shall be given when any one or both the tell tales are ON. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| High Beam | Blue |  | This lamp comes on when the high beam headlamps are switched ‘ON’ or flashed. |
| LV Battery charging | Red |  | This symbol lights up when the ‘IGN’ is turned ‘ON’ and should go ‘OFF’ after the vehicle starts.<br>**NOTE:**<br>If it remains ‘ON’ while the vehicle is running, it indicates that the battery is not getting charged. Switch off all unnecessary electrical equipment and get the problem attended at TATA MOTORS EV Authorised Service Centre. |
| Airbag status | Red |  | This lamp comes on when ignition is switched ‘ON’ and goes ‘OFF’ in approx. 4 seconds. If it continuously remains on or blinks then contact the TATA MOTORS EV Authorised service Centre immediately. |
| Park Brake / Brake Fluid Low / EBD malfunction | Red |  | Illuminates momentarily when ignition is switched ‘ON’. Once parking brake is re-leased, it turns ‘OFF’. If it remains ‘ON’, it indicates.<br>1. Brake fluid level is low.<br>2. Park brake is applied & turns ‘OFF’ when it is released.<br>3. ABS/EBD system has a fault. |
| Cruise Control lamp (if equipped) | Green |  | This symbol lights up when the ‘IGN’ is turned ‘ON’ and shall go ‘OFF’ after 4 sec. The Cruise Control is used to indicate the status of cruise control system to the driver. Lamp ON indicates cruise control feature is present and it is acti-vated. |
| EPAS | Amber |  | Illuminates momentarily when ignition is switched ‘ON’.<br>Illuminates when there is a fault in the EPAS. Contact the TATA MOTORS EV Authorised Service Centre immediately. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| Driver Seat Belt Indicator | Red |  | Seat belt warning indicator comes 'ON' for 4 seconds, when ignition is turned 'ON' irrespective of seat belt buckle status.<br>If seat belt is not fastened then tell tale will be ON as initial warning with No audio warning i.e. chime. If seat belt remains unbuckled & vehicle speed goes above 15 kmph, Final Warning will start with audio chime for 93 seconds continuously.<br>NOTE:<br>• Once the seat belt is fastened, the buzzer & warning indicator will go 'OFF'.<br>• Seat belt indicator & audio alarm remains OFF when reverse gear is engaged. |
| AVH Indicator (If equipped ) | Green |  | AVH Indicator turns 'ON' for 4 seconds, when ignition is turned 'ON' irrespective of input state.<br>This feature monitors AVH function in ESP system and warns the driver in case of AVH function malfunction. |
| ABS | Amber |  | Illuminates when ignition is switched 'ON' and goes 'OFF' in 3 seconds. Illuminates continuously if there is any malfunction in ABS. Normal braking system will be operational without assistance of ABS. Contact TATA MOTORS EV Authorised Service Centre immediately. |
| Key Not Detected (if equipped) | Amber |  | This lamp comes on when the Valid Smart key is not detected inside the vehicle. |
| Press / Brake Pedal to Start vehicle (if equipped) | Amber |  | This lamp comes on with IGN ON till user presses the brake pedal to start the vehicle. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| Daytime running lamps DRL (if equipped) | Green |  | This lamp comes on when the Daytime Running lamp is 'ON'. |
| Door Ajar lamp (if equipped) | White / Red |  | All four door and Tail gate are indicated independently when the respective door or tail gate is open. |
| ECO | Green |   | Illuminates momentarily when ignition is switched 'ON'.<br>When ECO lamp is ON, it indicates the car is in 'Economy' drive mode. |
| CITY | Blue |   | Illuminates momentarily when ignition is switched 'ON'.<br>If CITY lamp is ON, it indicates 'City' drive mode, which is default mode. |
| SPORT | Amber |   | This symbol comes ON when SPORT driving mode is activated. |
| Speed limit warning indicator | Amber | SPEED LIMIT | When the vehicle speed crosses 80 kmph, then speed limit warning indicator turns 'ON' along with an audio chime for every two minutes (audible warning).<br>When the vehicle speed is reduced below 75 kmph, then the speed limit warning indicator and the audio warning will turn off.<br>If vehicle speed crosses 120 kmph, the speed limit warning indicator flashes along with an audio warning for every two sec one beep (audible warning) until the vehicle speed is above 120 kmph. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| | | | When the vehicle speed is reduced below 115 kmph, then speed limit warning indicator turns 'ON' along with an audio chime for every two minutes one beep (audible warning) |
| TPMS (Isolated/Non-Isolated) | Amber |  | 1. This symbol comes ON and blink for 4 second if Tyre Pressure is LOW/HIGH, Tyre temperature is HIGH, Tyre air pressure leakage. After 4 second symbol will continuously ON till warning is present.<br>2. This symbol comes on and blink for 10 second if TPMS system has fault and TPMS Sensor fault / missing. After 10 second symbol will continuously ON till fault is present, Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest. |
| HDC Warning lamp (if equipped) | Amber |  | Illuminates if Hill Decent Control System is activated. If continuously ON then HDC system is at fault condition, Please take your vehicle to nearest TATA MOTORS EV Authorised service Centre at the earliest. |
| HDC ON (if equipped) | Green |  | Illuminates momentarily when ignition is switched 'ON'.<br>This symbol comes on when the HDC function is activated in the vehicle. |
| HHC warning lamp (if equipped) | Amber |  | Illuminates momentarily when ignition is switched 'ON'.<br>If continuously on then HHC, system is in fault condition. Please take your vehicle to TATA MOTORS EV Authorised service Centre at the earliest. |
| HV Critical Alert | Red |  | When there is high severity then Red indicator will glow. Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| Park Lamp Indicator | Green |  | Park Lamp Indicators used to display/Indicate the Position Lamp to Driver. |
| Charging Fail Indicator | Red |  | This symbol is displayed when the vehicle is not getting charged even if the charger is connected. Contact the TATA MOTORS EV Authorized Service Centre to get the charging fail issue resolved |
| Charger Connected | Blue |  | This symbol lights up as soon as the charger is connected for charging the battery |
| Charging Indicator | Green |  | This symbol is displayed when your vehicle is getting charged. |
| Motor High Temperature | Red |  | This symbol lights up when the temperature of the motor is higher, and motor becomes hot.<br>Park your vehicle safely and wait for the temperature to become normal. If the problem persists, contact the TATA MOTORS EV Authorised Service Centre. |
| Battery High Temperature | Red |  | This symbol lights up when the temperature of the battery is higher, and battery becomes hot. Contact the TATA MOTORS EV Authorised Service Centre if this indicator is getting on frequently. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| Limp Home Mode | Amber |  | This symbol indicates the vehicle gone into limited performance mode. This usually happens when the battery reaches 10% threshold or if there is any minor fault in power transmission or electrical components. |
| High Voltage (HV) Alert | Red |  | This symbol lights up the voltage of the battery is too high and cause damage. Park your vehicle safely and contact the TATA MOTORS EV Authorised Service Centre. |
| Drive Ready | Green |  | This symbol indicated that your vehicle is ready to drive |
| zero charge/Low Charge | Red |  | This feature provides the HV battery Low/Zero Charge Status to the user. A bulb check shall be performed for this TT at every IGN ON for 4 seconds. The TT shall remain ON irrespective of the Input state during these 4 seconds. This tell tale shall be controlled turned ON/OFF by receiving the SoC input when the SoC level is low TT will turn ON to indicate charging system battery low to the user. |
| AC ON | Blue |  | This feature provides AC status to user. A bulb check shall be performed for this TT at every IGN ON for 4 seconds. The TT shall remain ON irrespective of the Input state during these 4 seconds. This tell tale is ON when AC is turn ON by user. |
| Co-Driver Seat Belt Indicator | Red | | If Co-Driver (Passenger) is present and its seat belt is not buckled and IGN is ON then tell tale will be ON as initial warning with No audio chime. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| | |  | If Co-Driver (Passenger) seat belt remains unbuckled and vehicle speed goes above 15 km/ hr, Then Seat belt tell tale will also start flashing along with audio alarm during Final Warning.<br>Note: Buckle the Co-Driver (Passenger) seat belt to stop Audible warning and tell tale OFF. |
| Rear Seat Belt Indicator (If equipped) | Red |  | If Rear Passenger (Right / Middle / Left) is present and its seat belt is not buckled and IGN is ON then tell tale will be ON as initial warning with No audio chime.<br>If Rear Passenger (Right / Middle / Left) seat belt remains unbuckled and vehicle speed goes above 15 km/ hr, Then Seat belt tell tale will also start flashing along with audio alarm during Final Warning.<br>Note: Buckle the Rear Passenger (Right / Middle / Left) seat belt to stop Audible warning and tell tale OFF |
| EPB MIL Fault | Amber |  | In case of malfunction in EBP MIL function in ESP system this indicator will glow. Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest |
| HDC ON | Green |  | When ignition is turned ‘ON’, this symbol comes ‘ON’ for 4 seconds and goes ‘OFF’.<br>This symbol comes on when the HDC function is activated in the vehicle. |
| AUTO VEHICLE HOLD (AVH) | Amber |  | In case of malfunction in AVH function in ESP system this amber indicator will glow. Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest |
| ESP (if equipped) | Amber | | Illuminates momentarily when ignition is switched ‘ON’. |

| Warning Lamps | Color | Indicator | Remarks |
|---|---|---|---|
| | |  | If continuously ON then ESP system is at fault condition, Please take your vehicle to nearest TATA MOTORS EV Authorised Service Centre at the earliest. |

## DISPLAY MESSAGES ON INSTRUMENT CLUSTER (IF EQUIPPED)

### Warning Messages

| SN | Warning / Information Title | Warning Message Title | Action To Be Taken |
|---|---|---|---|
| 1 | Fasten Seat Belt - Driver | Seat Belt Reminder | Fasten Driver Seat Belt |
| 2 | Speed Limit Warning | Speed Limit Warning | Over Speeding Detected Slow Down |
| 3 | Drive Control Shift Denied | Drive Mode Warning | Drive Control Shift Denied |
| 4 | Hill Hold Control Failure | Hill Hold Control | Malfunction Detected Contact TATA MOTORS EV Authorised Service Centre |
| 5 | Hill Decent Control Failure | Hill Decent Control | Malfunction Detected Contact TATA MOTORS EV Authorised Service Centre |
| 6 | Charging Level Low State | Charging Level Warning | Charge the vehicle |
| 7 | Fasten seat belt front passenger | Seat Belt Reminder | Fasten Front passenger Seat Belt |
| 8 | Transmission Failure Limp home Activated Visit Service Center | Transmission System | Malfunction Detected Contact TATA MOTORS EV Authorised Service Centre |

**Alert Messages**

| SN | Alert / Information Title | Alert Message Title | Action To Be Taken |
|---|---|---|---|
| 1 | Service Reminder Days | Service Due in/Service Overdue by “value” days | Contact to TATA MOTORS EV Authorised Service Centre |
| 2 | Park Brake Engaged | Brake Alert | Push EPB switch down to Release Park Brake |
| 3 | Charging Full | Battery Fully Charged | Remove Charger Safely |
| 4 | Service Reminder Kms | Service Due in/Service Overdue by “value” km | Contact to TATA MOTORS EV Authorised Service Centre |
| 5 | Charging below 100% | Battery XX% Charged Range YYY kms | Remove Charger Safely |
| 6 | Auto Headlamp | Lamp Alert | Headlamps will get activated automatically |
| 7 | Battery Low & user changes gear to S | Sport Mode Not Recommended | Change gear to any Eco or City mode |
| 8 | Charging ON Park brake OFF | Engage Park Brake to Start Charging | Engage Park Brake to Start Charging |
| 9 | HV Critical alert | Critical Alert Contact Service Centre | Contact TATA MOTORS EV Authorised Service Centre |
| 10 | Slow Down Vehicle Speed | Slow Down to Turn Off Vehicle | Press the brake pedal to slow down vehicle |
| 11 | Slow Charge up to 100% | Slow Charge up to 100% | It is recommended that user slow charges vehicle’s high voltage battery to 100% SOC. |
| 12 | Critical Battery Malfunction | Park vehicle safely and Evacuate Immediately | It is recommended to park vehicle in safe zone and evacuate to avoid injury. |

### Interrupt Messages

| SN | Alert / Information Title | Action To Be Taken |
|---|---|---|
| 1 | Rotate steering wheel (In ESCL jam condition) | Press Start Button while Turning Wheel |
| 2 | Drive Alert - Tea Break | Take a Break |
| 3 | Steering Failure-Visit Garage | Steering Failure  Contact TATA MOTORS EV Authorised Service Centre |
| 4 | Steering Failure-Stop Driving | Steering Failure Stop the Vehicle Safely |
| 5 | Door Ajar | Close the door |
| 6 | ESCL | Press Start Button While Turning Wheel |
| 7 | No Key | Smart Key Out of Range |
| 8 | Low Key Battery | Smart Key Battery Low Replace Battery |
| 9 | Press Brake Pedal | Press Brake Pedal to Start Engine |
| 10 | Drive Modes | Respective drive mode |
| 11 | Release Park Brake | Press Brake Pedal and push EPB switch down to Release Park Brake |

## AUDIO REMINDERS

| Sr. No | Feature | Condition | Reminder |
|---|---|---|---|
| 1 | Parking Lamp 'ON' Reminder | If you forget to turn OFF the park lights and driver door is open | An audio warning will be started. Do not forget to turn OFF your park lights as it may drain the vehicle's battery. |
| 2 | Parking brake 'ON' reminder | If Park Brake is applied and vehicle is driven above 5 Km/h, tell-tale shall blink along with chime continuously. Disengage the park brake to stop the warning. | Tell-tale will turn 'ON' and buzzer will provide audio warning continuously. Disengage the park brake to stop audio warning. |
| 3 | Reverse Gear reminder | If reverse gear is engaged | The buzzer sound will alert you for 1 second. |
| 4 | Driver Seat Belt reminder | If seatbelt is not fastened and vehicle goes above 15 kmph | Then final audio warning will go on for more than 90 seconds. Seat belt tell-tale light will remain continuously ON when audio alarm is active. |
| 5 | Front passenger Seat Belt reminder | If front passenger has not fastened seatbelt and if vehicle speed goes above 15 kmph, then final audio warning will go on for more than 90 seconds. | Seat belt tell-tale light will remain continuously ON when audio alarm is active.<br>Note: Fasten the seatbelt to stop audio warning. |
| 6 | Drive mode chime | When user switches drive mode from city to eco or city to sport (if equipped) | Sound warning for 1 second will be given to alert user. |

| Sr. No | Feature | Condition | Reminder |
|---|---|---|---|
| 7 | Electronic Steering Column Lock (ESCL) chime | This feature informs the driver to rotate steering wheel when ESCL gets engaged inadvertently. | This chime is sounded in IGN OFF mode for 3 secs. |
| 8 | High Temperature alert for Motor | When machine and inverter temperature cross the max limit from the BMS | Buzzer will start along with the motor high temperature warning lamp blinking to indicate the user to contact TATA MOTORS EV Authorised Service Centre. TT and buzzer will be in sync continuously till the state remains TRUE. |
| 9 | iTPMS chime | 1) If,<br>Tyre Pressure is low<br>Tyre Pressure is high<br>Tyre temperature is high<br>Tyre air pressure leakage<br>2) If,<br>TPMS system has fault<br>TPMS Sensor has fault or missing | iTPMS chimes shall sound for 4 secs and for TPMS fault conditions TPMS chime shall sound for 10 sec. |
| 10 | PEPS Key not detected chime | If PEPS key is not detected in the vehicle | Sound warning will be given to alert User |
| 11 | Low battery charging Chime | When Auxiliary battery charging fault occurs with high criticality, buzzer will start along with the warning lamp blinking to indicate the user to contact TATA MOTORS EV Authorised Service Centre. | Warning lamp and buzzer will be in alert continuously till the state remains TRUE. |

| Sr. No | Feature | Condition | Reminder |
|---|---|---|---|
| 12 | Charging ON & Park Brake OFF Chime | When charger is connected & Park brake is disengaged. | Sound will be given to alert User |
| 13 | Regen Level chime | When Regen. level is change. | Sound will be given to alert User |
| 14 | Cell Voltage Low Fault chime | If TPMS alert condition occurs, TPMS chimes shall sound for 4 secs and for TPMS fault conditions. | Sound will be given to alert User for 10sec. |
| 15 | Rear Seat Belt reminder | If Rear Passenger is present & its seat belt remains unbuckled and vehicle speed goes above 15 km/ hr, Final Warning will start. | Audio Chime will continue for 93 seconds. Seat belt tell-tale will remain continuously ON when audio alarm is active. |
| 16 | High Temperature alert for Battery | When maximum battery cell temperature crosses the limit specified | Sound will start along with the battery high temperature warning lamp blinking to indicate the user to contact TATA MOTORS EV Authorised Service Centre. Warning lamp and buzzer will be in sync continuously till the state remains TRUE. |

## BEFORE YOU START YOUR EV

- Make sure that the area around the vehicle is clear.
- Do a check of the fluid levels - coolant, brake fluid, and windshield washer fluid as frequently as possible.
- Make sure that all windows and lights are clean.
- Examine the tyres for their appearance, inflation pressure and condition.
- Make sure that all doors are closed.
- Position the seat and adjust the headrests.
- Adjust the inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Do a check of the operation of the warning lights when the power switch is pushed to the ON position. For additional information, refer to “Warning lamps and audible reminders” in the “Instrument Cluster” section of this manual.

### Procedure to Start EV

1. With the smart key sit in the driver’s seat /Engage the key in the lock set.
2. Fasten the seat belt before you start the vehicle.
3. Turn off all electrical devices.
4. Make sure to engage the parking brake for your safety.
5. Make sure to press and hold the brake pedal. Press and hold the brake while pressing the start/stop button or turning the key to on position.
6. The vehicle will get ON in ‘P’ mode only and it will be automatically selected.
7. When ‘Ready’ message appears, you can drive the vehicle. Else, you cannot drive the vehicle. Start the vehicle again.

**⚠ WARNING**

When the ‘Ready’ message is ON and if the gear is in a position other than N (Neutral), the driver can accidentally press the accelerator pedal, causing the vehicle to move unexpectedly.

8. Shift using monostable shifter to the desired position (D/R). EPB will be still engaged.
9. Release the parking brake and slowly release the brake pedal. See if the vehicle slowly moves forward, then press the accelerator pedal.

### Procedure to Stop EV

1. Hold down the brake pedal until the vehicle comes to hault.
2. Continue to press the brake pedal, first shift to N mode and further shift to P mode/engage parking brake.
3. Press the start/stop button to OFF position to stop the vehicle.

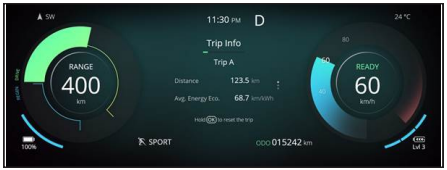
### Range of Your EV

Your EV can drive as per given range in below table, when the high voltage battery is 100 % charged. However, in certain situations like driving at high speed or when the air conditioner/heater is ON, the distance to empty can reduce significantly, as the high voltage battery consumes more electricity.

| S. n. | Range | Battery State |
|---|---|---|
| 1 | 489 km* (P1+P2) | 100% |

P1+P2 Cycle - Urban and Extra- Urban Driving Cycle (max speed 90kmph)

*Range mentioned under standard test condition.




If the "—" symbol is displayed, charge the vehicle immediately. After you charge your vehicle, the distance to empty reading may vary significantly depending on previous operating patterns. When previous driving patterns include high speed driving, resulting in the driving battery using more electricity than usual, the estimated distance to empty is reduced.

When the high voltage battery uses a little electricity in ECO mode, the estimated distance to empty increases. Distance to empty may depend on many factors such as the charge available in the high voltage battery, weather, temperature, durability of the battery, geographical features, and driving style. Natural degradation may occur with the high voltage battery depending on the number of years the vehicle is used. This may reduce the distance to empty. Contact your nearest TATA MOTORS EV Authorised Service Centre to replace the battery in that case.

**ⓘ NOTE**

*Any additional load in the car drains the battery or it may effect on range of vehicle.*

## START/STOP SWITCH

Start/Stop switch is provided on the dashboard towards the left side of steering wheel.


Single press start/stop switch will bring the vehicle to the ACC ON condition (Amber colour)

Second press will bring the vehicle to the ignition ON condition (Green colour). To start the vehicle press the brake pedal and press the start/stop switch again.

Press the start/stop switch again to switch OFF the vehicle.

With EPAS it gets automatically locked and unlocked as the ignition switch is OFF/ON.

**ⓘ NOTE**

- *If smart key is inside the vehicle and on pressing start/stop switch, if start/stop switch green LED blinks more than 10 sec. duration then contact TATA MOTORS EV Authorised Service Centre.*
- *If ESCL (Electronic Column Steering Lock) is not unlocked properly, then vehicle doesn't go into ACC mode.*

### Backup Start

To start the vehicle when smart key battery voltage is low, the user needs to press start/stop button two times with an interval of 2.5 seconds after pressing the brake with valid smart key at its location (in Center Console).

### Vehicle Passive Start-condition

#### Single Press Start

1. Bring the smart key with you and sit in the driver seat.
2. Press the brake pedal and then press the start/stop switch.
3. Green colour LED on start/stop button will turn ON.
4. Once vehicle is started successfully, the green colour LED on start/stop button stays ON.

#### Two Step Start

#### Step 1

1. Have the smart key with you and sit on the driver's seat.
2. Press the start/stop button without pressing brake pedal.
3. Amber colour LED on start/stop switch turns ON.
4. Vehicle will remain OFF and all electrical equipment and infotainment system can be used. Steering is unlocked.

**Step 2**

1. Press the brake pedal and then press start/stop button to start the vehicle .
2. Green colour LED on start/stop button will turn ON.
3. Once vehicle start successfully, green colour LED on start/stop switch will remain ON.

**Three Step Start**

**Step 1**

1. Have the smart key with you and sit on the driver's seat.
2. Press the start/stop button without pressing brake pedal.
3. Amber colour LED on start/stop button will turn ON.
4. Limited information will be displayed on instrument cluster and steering will be unlocked. vehicle remains OFF.

**Step 2**

1. Press the start/stop button without pressing brake pedal again.
2. Green colour LED on start/stop button will turn ON.
3. vehicle will remain OFF but all electrical equipment and infotainment system can be used.

**Step 3**

1. Press the brake pedal and then press start/stop button to start the vehicle .
2. Green colour LED on start/stop button will turn ON.
3. Once the vehicle is started successfully, the green colour LED on start/stop button stays ON.

**Vehicle Passive Stop-stationary Conditions**

**Single Press Stop**

- Press the start/stop button with or without brake.
- ACC and IGN turns OFF.
- LED on start/stop switch turns OFF.

**Single Long Press Stop**

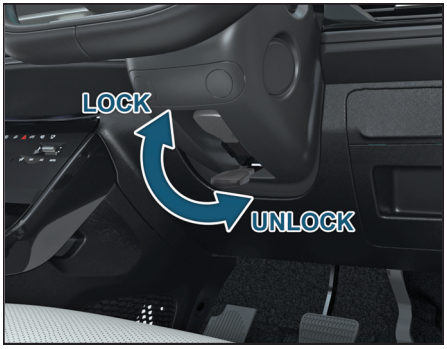
- Press the start/stop button for more than three seconds.
- IGN returns OFF, ACC remains ON.
- Amber colour LED on start/stop switch turns ON.

**⚠ WARNING**

When vehicle is in OFF mode, if user tries to lock the vehicle from outside by pressing door handle switch and PEPS detects that the smart key is left inside the vehicle, an audio warning/ chime is sounded and doors will not get locked.

## STEERING SYSTEM AND ADJUSTMENT

### Steering Lock and Unlock




### To adjust the Steering Wheel

1. Adjust the seat to a comfortable position.
2. Push the tilt lever completely down to unlock the steering column.
3. Adjust the steering wheel to the desired position.
4. Pull the tilt lever up completely to lock the steering column.
5. Make sure that steering wheel is securely locked by checking up and down direction.

**ⓘ NOTE**

*When adjusting the steering wheel, make sure that:*

- *You can see control pedals without any obstacles.*
- *You can see all the displays in the instrument cluster clearly.*

**⚠ WARNING**

Before you start the car, make sure the steering wheel position is locked. Do not unlock or adjust the steering wheel while the vehicle is in motion.

## ELECTRIC POWER ASSISTED STEERING (EPAS)

Your vehicle is equipped with electric power assisted steering system. The EPAS system makes steering the vehicle easier with less effort.

In the EPAS system, steering effort increases with vehicle speed for improved control at higher speeds and becomes lighter at lower speeds to enhance maneuverability.

If the vehicle is 'OFF' or if the EPAS system becomes inoperative, the vehicle still can be steered with more steering effort however ignition switch should be in ON position else steering wheel will get locked.

This EPAS system is available with the following assist features

1. Speed sensitive assist control
2. Active return control

**ⓘ NOTE**

- *A click noise may be heard from the EPAS relay after the ignition switch*

*is turned ON or OFF position.*

- *The steering wheel may not unlock normally in some cases when ESS button is pressed. If this happens, turn the steering wheel to the right or left slightly to unlock the steering wheel while pressing ESS button.*
- *Contact the nearest TATA MOTORS EV Authorised Service Centre if in case of the above scenarios.*

**⚠ WARNING**

In case of below malfunction conditions, then, take your vehicle to the nearest TATA MOTORS EV Authorised Service Centre and have the EPAS system checked as soon as possible.

- Vehicle noise may be heard when the vehicle is driven at low speeds.
- If the EPAS system does not operate normally, the warning light will illuminate on the instrument cluster. The steering wheel rotation may become difficult to control or operate.

## DRIVING TIPS

- Plan your tour in advance get help from google maps, check for road conditions, kms to be covered in a day, halting destination, fuel station, food station, hospitals and roadside assistance in case of emergency.
- Always wear your seat belt and ensure all passengers so the same.
- Follow speed limits and adjust your speed according to road condition.
- Keep safe following distance from the vehicle in front of you.
- Obey traffic rules and sign at all times.
- Avoid distraction like mobile phone, texting while driving.
- Check your mirror frequently and be aware of surrounding.
- Never drive under the influence of alcohol or drugs.
- Avoid aggressive driving behaviour like tailgating or excessive over speeding.
- Regularly maintain your vehicle to ensure good working condition.
- Take adequate break and rest every after 200 kms.
- Check tyre pressure, coolant, oil indication, any leakage under the vehicle regularly during travelling.
- Use horn, light and indicators as per condition.

**⚠ WARNING**

We strongly advise you not to drive in late hours/sleep hours to avoid fatality because body response is slow to respond to any situation in this time period.

**ⓘ NOTE**

*Remember, safe driving is crucial for your safety and safety of others on the road, drive responsibly following above driving tip may help is good and enjoyable travelling experience.*

### Driving Through Water / Flooded Water

- Drive through calm water only if it is not

deeper than 300mm and at this depth, the vehicle speed to be maintained at creep speed.

- If car gets completely or partially submerged in water, switch OFF the igni-tion, evacuate the car
- We do not recommend you to drive through flooded water as it may enter the vehicle interior and motor compartment which could damage power electronic, electronic & electrical systems. Judge the depth of water before driving through it.

**⚠ WARNING**

If vehicle is flooded with water, do not attempt to start the vehicle. Tow the vehicle to a safe place. Contact a nearest TATA MOTORS EV Authorised Service Centre.

### Driving on wet roads

Check wiper blades, lights and brakes for proper functioning and condition. Check the tyre treads depth, the condition of the tread and tyre. Avoid harsh braking and sharp turns. It may cause loss of control and lead to skid. Keep lights 'ON' if visibility is poor.

**⚠ WARNING**

On wet road or during light showers, "Aquaplaning" can occur. "Aquaplaning" is the loss of direct contact between the road surface and the vehicle's tyres due to a water film forming between them Steering or braking the vehicle can be very difficult, and loss of control can occur.
There is no hard and fast rule about aquaplaning. The best advice is to slow down when the road is wet.

**ⓘ NOTE**

*If you have driven for a long time in heavy rain without braking, there may be a delayed reaction from the brakes when braking for the first time. You have to press the brake pedal more firmly. Maintain a greater distance from the vehicle in front.*

### Driving on snowy roads

While driving on snow, it is advisable to use the snow chain on roads. Follow assembly and safety instruction provided by the snow chain manufacturers.

**⚠ WARNING**

Wet ice (0°C and freezing rain), snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.

- Whatever the conditions, drive with caution. Accelerate and slow down with care. If accelerating too fast, the drive wheels will lose even more traction.
- Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.

- Allow greater following distances on slippery roads.
- Watch for slippery spots (glare ice).
- These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.
- Do not use cruise control on slippery roads.

### Driving at Night

- Ensure that all lights are working and windshield, window glasses are clean.
- Drive more slowly at night than in the daytime, as the visual range is restricted at night. Maintain a speed such that you can stop within illuminated distance of headlamps.
- Do not use the high beam unless inevitable. It may dazzle the driver of the oncoming vehicle, thus causing an accident.
- Use headlamp main/dip beam to alert other road users on turns/ cross roads etc.
- Use side indicators for lane change or turning

### Driving on Gradients

When climbing gradient, plan it in advance so that the vehicle speed is maintained.

When driving down a hill, the regenerative braking should be used. Do not switch OFF the vehicle.

**⚠ WARNING**

On long and steep gradients you must reduce the load on the brakes by taking your foot off the accelerator pedal. This allows you to take advantage of regenerative braking effect and helps avoid overheating of service brakes resulting in reduced braking efficiency.

### Driving in Heat and cold weather

The heating and cooling on the car uses energy from the battery. Set temperatures to a comfortable 24° C - 26° C with Auto mode and Econ activated, and see the comfort as well as the range go up significantly

**⚠ CAUTION**

Do not park the vehicle in temperatures below -22°C for more than seven days. If the outside temperature is -22°C or less, the Lithium Iron Phosphate battery may freeze and it cannot be charged or provide power to run the vehicle. Move the vehicle to a warm location

### Driving on Highway

Do not change the accelerator pedal inputs rapidly. Go as smooth as possible. EV's being instantaneous torque and power – there is very little lag in translating the pedal input to vehicle response.

Stopping distance progressively, increases with vehicle speed. Maintain a sufficient distance between your vehicle and the vehicle ahead.

For long distance driving, perform safety checks before starting a trip and take rest at certain intervals to prevent fatigue.

EV's give best range between speeds of 40 – 60 kmph. Therefore they are ideal for

city applications. Driving in this range along with following of other points here will add your mileage significantly. A driving speed band of 60 to 80 kmph is recommended on highway. At high speed, the range may result in significant drop in range.

## TIPS TO GET MAXIMUM RANGE WHILE DRIVING EV

### Acceleration, Braking and Coasting

Acceleration: This vehicle has a single speed automated gearbox. In accelerating mode, the torque supplied by the motor via the gearbox to the front wheels is linear in nature.

### 1. Regenerative Braking


- This vehicle is equipped with a regenerative brake system. The primary purpose of the regenerative brake system is to provide some power to help recharge the Lithium Iron Phosphate battery and extend driving range.
- The electric motor when decelerating and braking and transforms kinetic energy to electrical energy in order to charge the high voltage battery. (Torque is applied in the opposite direction when decelerating to generate braking force and electricity).
- A secondary benefit is an effect similar to “vehicle braking” seen in IC vehicle cars. Here, it depends on HV battery condition.
- In the Drive mode, when the accelerator is released, the regenerative brake system provides some deceleration and generates power for the high voltage battery.
- Power is also generated when the brake pedal is applied.
- The calibration on the regen is done in such a way that most people can experience a “single pedal” drive at most times, just lift your feet of the accelerator pedal to slow the vehicle down and gain range. Brake lightly if required
- When you brake and take your foot off the accelerator pedal, more regenerative brake is applied than in the drive mode. However, during high-speed driving you may feel that regenerative brake provides less deceleration than

the motor braking in an ordinary vehicle. This is normal.

- Less deceleration is provided by the regenerative brake system when the Lithium Iron Phosphate battery is fully charged. Regenerative brake is automatically reduced when the high voltage battery is fully charged to prevent it from overcharging.
- Regenerative brake is also automatically reduced when the battery temperature is high/low to prevent battery damage.
- The brake pedal should be used to slow or stop the vehicle depending on traffic or road conditions. The vehicle brakes are not affected by regenerative brake system operation.
- Use correct Regen Selection for better range.
- It is recommended to use below mention Regen level for better mileage:
  - Regen level “0” or “1” in case of plain highway.
  - Regen Level “1” & “2” In city drive with normal traffic.
  - Regen Level “2” & “3” In city drive with heavy traffic.

### 2. Interior Climate


Heating and Air conditioning system uses energy from the high voltage battery and this reduces range. For maximizing range during air-conditioning on driving, it is recommended to set the air conditioning in Auto mode with Econ activated. Also the set temperature should be set between 24-26 deg C. EV is equipped with Remote Air conditioning. You can remotely start Air Conditioning system. However, this also consumes energy from the high voltage battery and reduces the driving range.

### 3. Driving Speeds


At high speeds, greater than 80kmph, high amount of energy is spent in propelling the vehicle and hence reduces range. Similarly, idling for long duration also reduces range significantly

### 4. Driving Style


Driving behavior has a significant influence on the driving range of an electric vehicle. Frequent and heavy accelerations will have a detrimental impact on car’s driving range whereas travelling at a steady pace, in between 40-80 km/hr will help an electric car to maximize range. Predictive driving with gradual acceleration reduces your reliance on hard braking. This helps conserve energy during acceleration and regenerate optimally during deceleration.

However, brake should be applied as necessary to avoid hazards to occupants and surrounding.

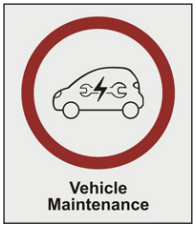
### 5. Tyre Pressure


Maintaining specified Tyre pressure only ensures comfortable ride comfort but also maximizes range by minimizing rolling losses of the vehicle. It is advisable to regularly monitor and maintain the tyre pressure within specified limits.

### 6. Unauthorized Electrical Accessories

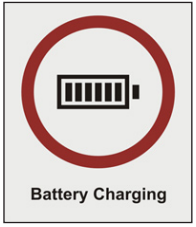

Unauthorized aftermarket electrical accessories can potentially consume higher energy than factory fitted ones and may affect range directly. They can also lead to functional complications and lower component life in the long run. It is recommended to fit only TATA Genuine Accessories at Authorized EV Service stations.

### 7. Vehicle Maintenance




Vehicle to be serviced regularly as per service schedule in authorized service stations. It helps in maximizing vehicle performance and component life.

### 8. Battery Charging




For every 4 consecutive fast charges, 1 complete slow charge is recommended (<20% to 100% SoC) to ensure consistent performance and better health of the high voltage battery. This improves charge balancing during charging and deliver better driving range.

### 9. Dead Weight


Dead weight like bags, boxes etc. which is not required should be removed from the car. This lowers the energy required to propel the vehicle and improves driving range.

## Limp Home Strategy

| Soc Intervention | | | | | |
|---|---|---|---|---|---|
| **SoC Zone** | **IC message and state** | **Performance** | **Gradeability** | **Max. Speed** | **Cabin cooling** |
| 52% to 11% | If SoC drops to 25% when the vehicle is in Sports mode, it will automatically shift to City mode and the same will be displayed on cluster | Marginal Reduction | 29 deg | No change | No change |
| 10% to 6% | SoC gauge 1st bar ON with single chime. Limp Home tell tale on cluster. "RECHARGE" will display. | Reduced | 18 deg | 50 kph | Reduced |
| 5% to 0% | SoC gauge 1st bar will blink. Blinking Limp Home with continuous chime. | Reduced | 18 deg | 50 kph | OFF |

| Fault Intervention | | | | | |
|---|---|---|---|---|---|
| **Sr. No.** | **Telltale Indication** | **Performance** | **Gradeability** | **Max. Speed** | **Cabin cooling** |
| 1 | Solid or blinking limp Home Tell Tale + Single chime | Reduced | 20 deg. | May go down to 50 kph | May switch off |
| 2 | Solid HV Critical + Single chime along with solid/ blinking limp home | Reduced | 20 deg. | 50 kph | May switch off |
| 3 | Blinking HV Critical | Vehicle Not drivable due to critical fault in HV System | - | - | - |

### Limp Home Condition of EV

In situations when certain conditions in the vehicle are not met or when some fault arises in the vehicle, the vehicle control unit intervenes and puts the vehicle into Limp Home Mode. The vehicle will give reduced performance in these situations. These limp home interventions are defined on two levels which are provided in the table.

**ⓘ NOTE**

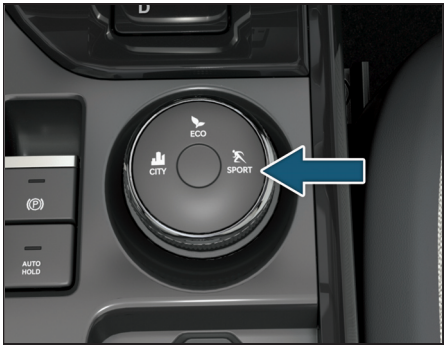
*There will be a single audio chime whenever the vehicle goes into Limp Home Intervention along with the IPC message. Sports mode cannot be selected if the vehicle SoC is below 25% or the vehicle is in limp home mode. If the vehicle is already in sports mode, it will automatically switch to drive mode. A message 'Gear Shift not allowed' will be displayed with an audio warning. When level 1 intervention takes place, the vehicle will not start in the next ignition cycle.*

### Limp Home Mode Telltale Warnings

| | | |
|---|---|---|
|  | Blinking | HV Critical Fault Contact TATA MOTORS EV Authorised Service Centre. |
|  | Continuously ON | HV Critical Fault Mobility is not allowed Contact TATA MOTORS EV Authorised Service Centre. |
|  | Continuously ON | Vehicle has entered in Limp Home mode |

## DRIVE AND SHIFTING MODES

### Drive Modes




Drive mode selection switch

'ECO ', 'CITY' and 'SPORT' drive modes are provided. These modes can be used to adjust motor torque characteristics and vehicle performance in line with desired requirement.

Drive mode selection switch is provided on center console for activation.

| Drive Mode | Performance |
|---|---|
| CITY | Increased Motor Torque and Power output for BALANCED performance. |
| ECO | Optimum Motor Torque and Power output for EFFICIENT performance. |
| SPORT | Driver can use maximum torque from Motor. |

## Shifting Modes


**Neutral (N)**

The monoshifter is in 'N' mode position and 'N' will be indicated in Instrument Cluster.

**Drive Mode (D)**

The monoshifter is in 'D' mode position and 'D' will be indicated in Instrument Cluster.

**Park (P)**

The monoshifter is in 'P' mode position and 'P' will be indicated in Instrument Cluster. When starting the vehicle or parking the vehicle. Apply the parking brake whenever the vehicle is to be parked.

**Reverse (R)**

The shifter knob is in 'R' shifter position and 'R' will be indicated in Instrument Cluster.

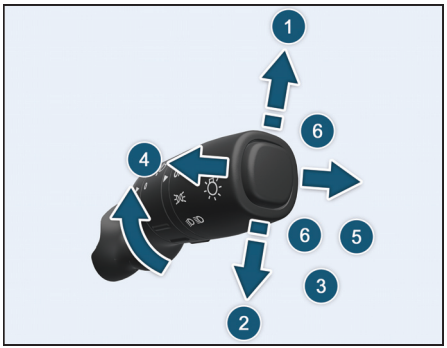
**Monostable Shifter**

- Your vehicle is equipped with Mono-stable shifter, where the shifter returns to its stable position the moment it is released.
- It is provided with 2 UP positions and 2 DOWN positions: UP2-UP1-Stable-DOWN1-DOWN2.
- The user shall release the shifter after each shift, as any new shift will be possible from stable position only.
- The user has to confirm the desired shifting position on display.
- Shifter shall not be attempted from non-stable position by continuously holding the shifter in the previous shift position.

| Gear shift Position | | Mono-stable shifter movement | Unlock Button Press | Brake Pedal Press |
|---|---|---|---|---|
| UP2 | P to R | Stable position -> Up2 (2nd detent) | Yes | Yes |
| | D to R | Stable position -> Up2 (2nd detent) | Yes | Yes |
| | P to N | Stable position -> Up1 (1st detent) | Yes | Yes |
| UP1 | N to R | Stable position -> Up1/Up2 | Yes | Yes |
| | D to N | Stable position -> Up1 (1st detent) | Yes | No |
| Stable Position | | | | |
| Down 1 | P to D | Stable position -> Down1/Down2 | Yes | Yes |
| | R to N | Stable position -> Down1(1st detent) | No | No |
| | R to D | Stable position -> Down2(2nd detent) | Yes | Yes |
| Down 2 | N to D | Stable position -> Down1/Down2 | Yes | Yes |

## OPERATING of LIGHTS and WIPERS

### Combi-switch (RH Stalk)




**1. Left Turn Signal**

Move the lever fully upward.

**2. Right Turn Signal**

Move the lever fully downward.

> **NOTE**
>
> *When the turn is completed, the signal will cancel and the lever will return to its normal position.*

**3. High Beam**

Move the lever forward to select the high beam function. Pull the lever back to normal for low beam.

**4. High Beam Flash (Spring Return)**

To flash the high beam, pull the lever towards you from the normal position. It will return to its normal position when you release it.

**5. Headlamp Rotary Switch**

OFF Position


All lamps will remain 'OFF.'

Parking Lamp

Rotate stalk to turn 'ON' the Parking lamps.

Low Beam

Rotate stalk to turn 'ON' the Low Beam function.

Auto Light

The headlights will be automatically switched ON depending on ambient light conditions (while entering a tunnel or when it is twilight).

**Day Time Running Lamps (DRL)**

Day time Running Lamps (DRL) are used to increase the visibility of the vehicle to other drivers during daytime.

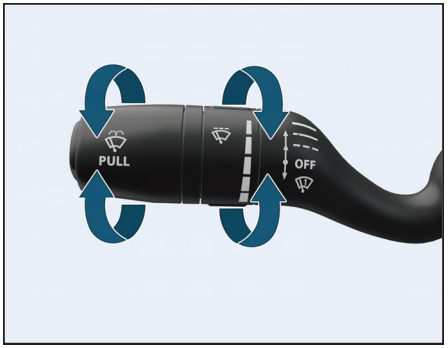
1. To activate and deactivate DRL, keep the ignition switch is 'ON' position and switch the parking lamp ON-OFF twice within approx. three seconds.

2. Activation and Deactivation of DRL can be done by DRL soft switch, which is available on the Head Unit Display.

**6. Lane Change Signal**

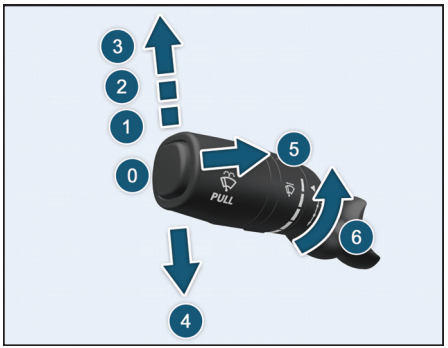
To signal a lane change, move the lever slightly up or down to the point where the turn signal light begins to flash, but the lever does not latch. The turn signal will flash six times automatically.

### Head Lamp Leveling Rotary Switch




Inner rotary switch on right hand stalk is provided for head lamp leveling. With the inner rotary switch, Head lamp leveling can be done with head lamp in Low Beam and in 'ON' position. Select correct position before start of trip, when the vehicle is stationary. Depending on the number of passengers and luggage in the vehicle headlamp focus may change. This can be adjusted by rotating the knob to one of the three level positions.

### Combi-switch (LH Stalk)




**0. Off" Position**

The wiper is switched 'OFF'.

**1. Intermittent Wipe**

Push the stalk upwards to operate intermittent wipe.

Inner rotary switch on left hand stalk is provided for intermittent front wiper delay. The switch has five delay timers.

**2. Slow Wipe**

Push the stalk towards position (2) for continuous slow wipe.

**3. Fast Wipe**

Push the stalk towards position (3) for continuous slow wipe.

**4. Flick Wipe (Spring Return)**


Pull the stalk downwards and hold it for continuous wipe, the wiper continuously wipes across the windshield at low speed till the stalk is released.

**5. Front Windshield Washer**


- Pull the lever little longer, to spray the washer fluid on the windshield.
- The windshield wipers will operate for three cycles after the lever is released and for one more cycle after five seconds.

### Manual Mode

- Pull the lever little longer, to spray the washer fluid on the windshield.
- The windshield wipers will operate for three cycles after the lever is released and for one more cycle after five seconds.

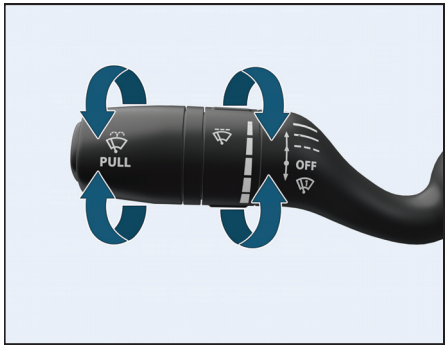
### Auto Mode (Rain / Light Sensor (if equipped))

If your vehicle is fitted with rain and light sensor, the wipers will automatically wipe the windscreen, if it senses rainfall. Make sure that the wiper stalk is in Auto position.

**ⓘ NOTE**

*When you crank the engine, the supply to washer motor is momentarily cut off.*

### Rear Wash and Wipe




### Rain/light Sensor (if Equipped)

The integrated rain and light sensor is mounted on front windshield glass to sense rain and light. As per the input from sensor, the wipe and light functions will work automatically.

### Horn

Horn is located on steering wheel. Use it whenever required.

**⚠ WARNING**

Check out for No Horn zone, where use of horn is prohibited.

## SEATS ADJUSTMENTS

### Front Row Seats Adjustments

#### Manual Adjustments


*Driver Seat*

Following seat adjustments can be carried out manually.

1. Driver Seat Backrest Angle Adjustment
2. Driver Seat height adjustment
3. Driver Seat forward/backward adjustment lever

**⚠ WARNING**

Do not adjust the driver's seat while driving. Adjusting the seat while driving could cause the driver to lose control of the vehicle.

**1. Driver Seat Backrest Angle Adjustment**

To change the seat back rest angle, lean forward slightly and pull up the lever (1). Adjust seat backrest until it reaches desired comfortable position. Make sure that lever returns to its original position and seat is securely latched.

**ⓘ NOTE**

*Adjust the seat backrest until your arms are slightly angled when holding the steering wheel.*

**⚠ WARNING**

Never travel in a moving vehicle with the seat backrest in an excessively reclined position as this can be danger ous.
You could slide under the seat belt in a collision.

**2. Driver Seat height adjustment**

To raise the seat, pull and continue pumping the lever (2) in the upward direction until the seat is at the desired height. To lower the seat, pump the lever downward until the seat is at desired height.

**3. Driver forward / backward adjustment**

Lift lever (3) and slide the seat forwards or rearwards. Release lever and make sure that seat is securely latched.

**ⓘ NOTE**

*Adjust the driver seat position in such a way that the driver will be able to operate the control pedals conformably.*

**Co-driver Seat Adjustments (if equipped)**


Following seat adjustments can be carried out manually on Co-Driver seat.

1. Co-Driver Seat Backrest Angle Adjustment
2. Co-Driver Seat forward/backward adjustment lever

**⚠ WARNING**

Do not adjust the driver's seat while driving. Adjusting the seat while driving could cause the driver to lose control of the vehicle.

**1. Co-Driver seat Backrest Angle Adjustment**

Similar to driver seat, to change the seat back rest angle, lean forward slightly and pull up the lever (1). Adjust seat backrest until it reaches desired comfortable position. Make sure that lever returns to its original position and seat is securely latched.

**2. Co-Driver forward / backward adjustment**

Similar to driver seat, lift lever (3) and slide the seat forwards or rearwards. Release lever and make sure that seat is securely latched.

**Power Seats Adjustments (if equipped)**

**Drive Power Seats Adjustments**


1. Driver Seat Backrest Angle Adjustment
2. Driver Seat height adjustment
3. Driver forward / backward adjustment

**1. Driver Seat Backrest Angle Adjustment**

To change the seat back rest angle, lean forward slightly and pull up the lever (1). Adjust seat backrest until it reaches desired comfortable position. Make sure that

lever returns to its original position and seat is securely latched.

**ⓘ NOTE**

*Adjust the seat backrest until your arms are slightly angled when holding the steering wheel.*

**⚠ WARNING**

Never travel in a moving vehicle with the seat backrest in an excessively reclined position as this can be dangerous. You could slide under the seat belt in a collision.

**2. Driver Seat height adjustment**

To raise the seat, pull and continue pumping the lever (2) in the upward direction until the seat is at the desired height. To lower the seat, pump the lever downward until the seat is at desired height

**3. Driver forward / backward adjustment**

Lift lever (3) and slide the seat forwards or rearwards. Release lever and make sure that seat is securely latched.

**Co-driver Power Seats Adjustments**


1. Driver Seat Backrest Angle Adjustment
2. Driver forward / backward adjustment

**1. Co-Driver seat Backrest Angle Adjustment**

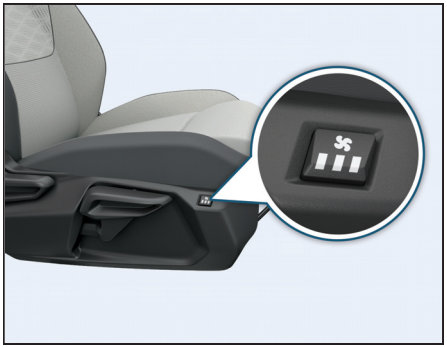
To change the seat back rest angle, lean forward slightly and pull up the lever (1). Adjust seat backrest until it reaches desired comfortable position. Make sure that lever returns to its original position and seat is securely latched.

**2. Co-Driver forward / backward adjustment**

Lift lever (3) and slide the seat forwards or rearwards. Release lever and make sure that seat is securely latched

**Seat Ventilation**

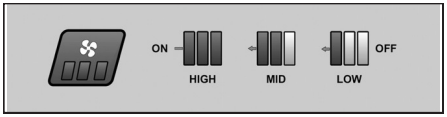
To start ventilation, press button once.



It has 3 ventilation adjustment in decreasing order and LED glows for each press. To Stop the ventilation long press the button for few seconds.

Default setting is highest speed on first press.

**The ventilated seat by default is set to OFF whenever the vehicle START/STOP button is turned on.**




**ⓘ NOTE**

*Do not apply excessive force on ventilation button as it may get damaged. Button operates with slight finger force as they are electronically controlled.*

**To protect ventilated seats-**

- Use the air ventilation seat ONLY when the vehicle HVAC system is on.
- Never use a liquids like alcohol, high viscosity oils or other to spill on ventilated seats.
- Avoid spillage of liquids on the ventilated seats surface this may lead to blockage of ventilated seat system and may not function properly.
- Do not add seat covers, as it will not allow ventilated seats to function properly.
- Do not keep plastic covers of seat as it is, as it will not allow ventilated seats to function properly.

**ⓘ NOTE**

*Ventilated seats to be vacuum cleaned regularly as there are chances of air vent hole blockage after usage.*

## Rear Seat Adjustments

### Rear Seats Folding (60-40%) (if Equipped)

You can increase the luggage capacity by folding the respective rear seats as required.

To fold the seat:

- Pull the backrest release knob to fold the seat forward. (Right side door second row).


- Lift the seat as shown in the figure.

- Fold the backseat as shown in the figure.

**ⓘ NOTE**

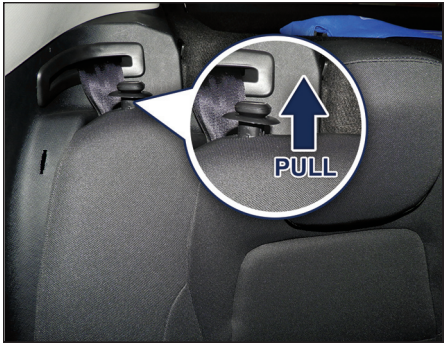
- *Ensure that 'foldable arm rest' is close before seat folding.*

Follow the same procedure for driver side seat.

**Rear Seats Folding (100%) (If equipped)**

You can increase the trunk capacity by folding the rear seat. For folding:

- Pull the backrest release knob provided on both side simultaneously.




- Lift the seat as shown in the figure.

- Fold the backseat as shown in the figure.

**⚠ WARNING**

- You should always engage the rear seat if you do not need the through loading feature.
- If the rear bench seat and seat backrest are not engaged they could fold forwards, e.g. when braking suddenly or in the event of an accident.
- The vehicle occupant would thereby be pushed into the seat belt by the rear bench seat or by the seat backrest. The seat belt can no longer offer the intended level of protection and could even cause injuries.
- Objects or loads in the trunk cannot be restrained by the seat backrest. There is an increased risk of injury.
- Before every trip, make sure that the seat backrests and the rear bench seat/rear seat are engaged and securely latched.

## MIRRORS

### Inside Rear View Mirrors (IRVM)

To adjust the mirror move the mirror up, down or sideways manually to obtain the best rear view.

When you drive at night, set the selector tab to select anti-glare mode (if equipped) to reduce glare from the headlights of vehicles behind you.

**ⓘ NOTE**

*Use antiglare position only when necessary, as it reduces rear view clarity.*

### Automatic Dimming IRVM (if equipped)


1. Photocell Sensors
2. ON/OFF button

Automatic dimming rear view mirror automatically controls the glare from the headlights of the car behind you in night time or low light driving conditions. Press ON/OFF button to turn ON the automatic dimming

function.

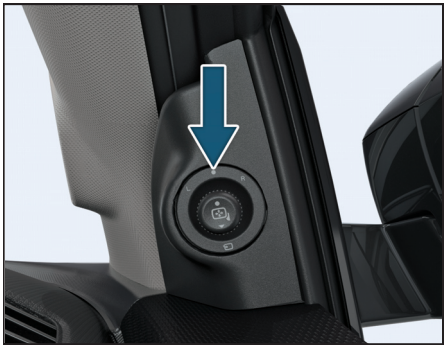
The LED indicator on the IRVM shows the active status of auto dimming function. The auto dimming IRVM is defaults to the ON position whenever the ignition switch is turned ON and it is switched OFF whenever reverse gear is engaged.

**ⓘ NOTE**

*For proper operation, keep the photocell sensors clean and do not cover the area between the IRVM and the windshield.*

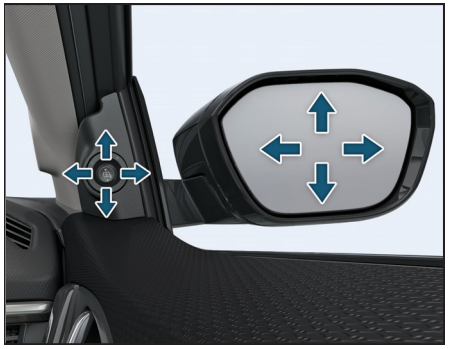
## Outer Rear View Mirror (ORVM)

### Motorized ORVM Adjustment (if equipped)



The switch to adjust the motorized mirrors is located on the driver's door. You can adjust the mirrors when the ignition switch is in the "ACC" or "ON" position.

### To adjust the Mirror



1. Move the mirror selection switch to L (for left side) and R (for right side) to select the mirror you wish to adjust.
2. Use the four positions of the knob to adjust the rear view mirrors to required position.

### ORVM Folding

#### Option 1: Manual Folding

ORVMs can be folded or unfolded manually. This is applicable only for vehicles which are not equipped with motorized folding provision.

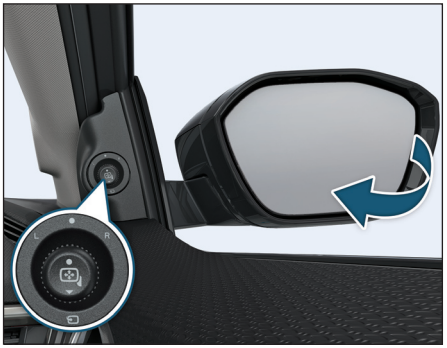
#### Option 2: Auto folding by Smart Key

When you lock the vehicle, ORVMs will be folded automatically.

**ⓘ NOTE**

*ORVM auto unfold not work, in case of user select the ORVM auto unfold option disabled through infotainment screen.*

#### Option 3: Auto Folding by Knob



To fold / unfold the ORVMs, keep the Selector switch in center position (i.e. neither 'L' nor 'R, position) and then toggle down. This will operate when the ignition switch is in the "ACC" or "ON" position.

### Sun Visors


The sun visors can be pulled down to block the glare coming through the windshield. To block the glare from side windows, pull down the sun visor and release it from retainer. Swing the sun visor to the side.

### Vanity Mirror

Vanity mirror is provided on the back of the front passenger side sun visor.

## DRIVING SUPPORT SYSTEM

### Electronic Parking Break (EPB)

EPB switch is located behind the Mono shift knob EPB is applied by pulling up the EPB switch and can be released by pushing down the EPB switch which needs the vehicle to be at ignition ON condition. Always ensure parking brake is released and parking brake warning lamp is OFF before start of the drive. Park brake warning lamp in cluster at vehicle running condition indicates failure in brake system needs to be checked with TATA MOTORS EV Authorised Service Centre and vehicle needs extreme precaution until you reach TATA MOTORS EV Authorised Service Centre.

**ⓘ NOTE**

*Apply the parking brake properly before leaving the vehicle and release it before moving.*

#### How to Apply

Depress the Brake pedal & Pull EPB switch upward.

**ⓘ NOTE**

*Kindly ensure EPB indication turns on in the Cluster. EPB will be applied automatically if vehicle is turned off and Mono shifter is engaged to park position. During parking the vehicle on Steep incline or trailer is attached, kindly ensure EPB can hold the vehicle before leaving.*

**⚠ WARNING**

Do not use parking brake in vehicle during running condition except for emergency situations like service brake failure. It will affect the entire brake system. If the EPB fails to apply, prevent vehicle movement by blocking the rear wheels.

### How to Release

EPB will be released only if you press the EPB switch along with Ignition is on or vehicle is running. & Brake pedal is depressed.

Kindly ensure parking brake indication in instrument cluster is turned off after EPB is released.

EPB Getting Released Automatically

The following steps to be followed for EPB auto release:

1. Vehicle READY condition
2. Driver door closed & seat belt buckled
3. Shifter knob in D/R mode
4. Press ACC pedal to drive away

### Precautions during Vehicle Towing with EPB

Before towing please ensure EPB is not engaged as it can damage Brake pads and Brake components during vehicle towing.

1. EPB should be manually released if battery of the vehicle is healthy during towing and Ignition should be kept in ON state till vehicle reaches to TATA MOTORS EV Authorised Service Centre.
2. If vehicle battery is not in healthy state during vehicle towing external power is required for manual release of EPB and ignition should be ON till vehicle reaches to TATA MOTORS EV Authorised Service Centre.
3. If it is not possible to keep the ignition ON till vehicle reaches to service center then keep EPB button pressed in release position, Brake paddle pressed and turn off the ignition this will avoid auto engagement of EPB during switching off the ignition.

**ⓘ NOTE**

- *In case of vehicle is power down EPB cannot be released, External supply is necessary to release the EPB.*
- *It is not recommended to touch/remove any component of Rear calipers to disengage the EPB as it will damage the caliper Components permanently.*

**⚠ WARNING**

DO NOT jump start the vehicle, since it is an EV. If the 12V battery is completely discharged, contact the nearest TATA MOTORS EV Authorised Service Centre.

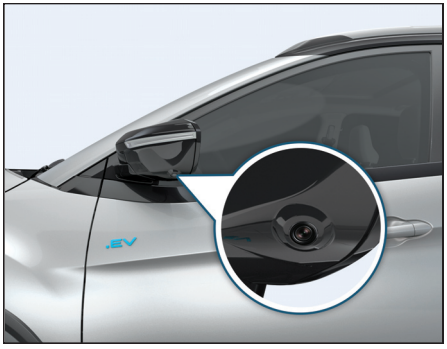
### Surround View System (SVS) (*if equipped)*

Surround view system displays the surroundings around the vehicle to the driver for safe and comfortable drive.

SVS assists the driver while reversing and maneuvering the vehicle at lower speeds.

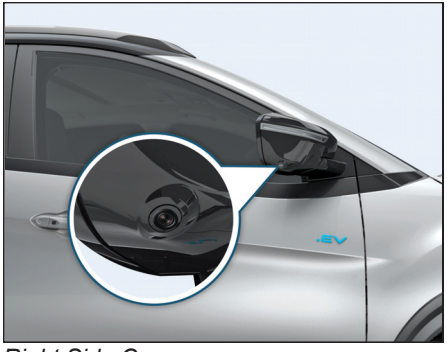
**Camera Locations As Shown In The Images**

*Front Camera*



*Left Side Camera*

*Rear Camera*



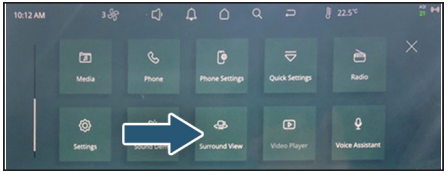
*Right Side Camera*

### Activation Of SVS

The function is activated when:

1. Surround view soft switch is pressed on Fascia switch

2. Surround view soft switch is pressed on Head unit.




3. The shift lever is in D (Drive), N (Neutral) or R (Reverse) and vehicle speed is under 17 kmph and surround view soft switch is pressed.
4. Engage the reverse gear and vehicle speed is below 17 kmph.

### Deactivation of SVS

SVS function is deactivated when one of the following step is performed.

1. Surround view soft switch is pressed again
2. Vehicle speed is more than 17 kmph
3. Disengage the reverse gear

**ⓘ NOTE**

- *When vehicle speed is more than 17 kmph, the SVS function will turn off. The function will not automatically turn on again, even though vehicle speed gets below 17 kmph. Press the switch again, to turn on the function.*
- *When vehicle speed is more than 17 Kmph SVS screen will be switch to only rear view during reverse gear.*
- *During vehicle speed is more than 17 Kmph and driver activate through soft switch/hard switch rear view shall display to user.*

### Surround View System Features

The Surround view system has the following features

1. 2D View
2. 3D View
3. Front Corner View
4. Rear Corner View
5. Full View
6. Settings
7. Cancel Icon

### 2D View

By selecting 2D Icon which is available on the right corner side of the infotainment screen, cameras provide about 360 degree 2D top view of vehicle's surrounding.

In 2D top view mode 4 camera icons will be present around the model car image to switch to different sides of view. The different 2D views are as follows.

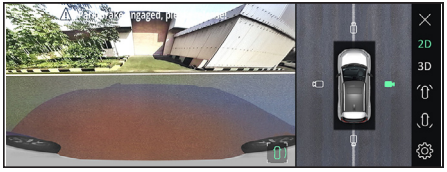
I. 2D Top view + Front view

II. 2D Top view + Rear view

III. 2D Top view + Left view

IV. 2D Top view + Right view


*2D Top + Front view*




*2D Top + Right view*


*2D Top + Rear view*


*2D Top + Left view*

### 3D View

By selecting 3D Icon, cameras provide about 360 degree 3D view of vehicle's surrounding on the Infotainment screen

In 3D mode view 8 camera icons will be present around the model car image to switch to different angle of view.


*3D view with 8 different views*

### Front Corner View

If driver wants to focus on the front corner view, then the icon can be pressed to select the view.

By selecting front corner view icon, camera provides a focused view on the front left and right corners to provide a better visibility for safe maneuver.

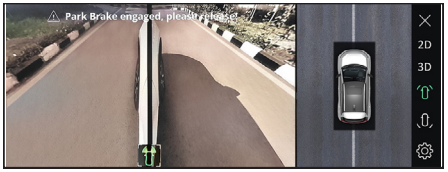



*Fig 3. Front corner view*

If driver wants to focus on the rear corner view, then the icon can be pressed to select the view.

By selecting rear corner view icon, camera provides a focused view on the rear left and right corners to provide a better visibility for safe maneuver.

### Rear Corner View

If driver wants to focus on the rear corner view, then the icon can be pressed to select the view.

By selecting rear corner view icon, camera provides a focused view on the rear left and right corners to provide a better visibility for safe maneuver.


*Fig 4. Rear corner view*

### Full View

#### I. 2D Full front view

By selecting 2D front view Icon which is available on the model car image, cameras provides about wide 2D front view of vehicle's surrounding on the Infotainment screen.

Press full view button to view front objects closer and press the same button to go back to the normal 2D front view.


*2D Full Front view*

### II. 2D Full Rear view

By selecting 2D rear view Icon which is available on the model car image, cameras provides about wide 2D view of vehicle's surrounding on the Infotainment screen.

Press full view button to view rear objects closer and press the same button to go back to the normal 2D rear view.


*2D Full Rear View*

### III. 2D Full Left view

By selecting 2D left view Icon which is available on the model car image, cameras provides about wide 2D view of vehicle's surrounding on the Infotainment screen.

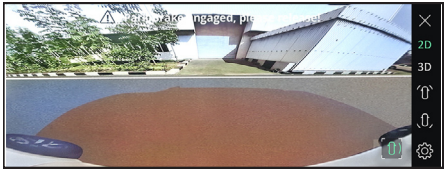
Press full view button to view left objects closer and press the same button to go back to the normal 2D left view.


*2D Full left view*

### IV. 2D Full Right view

By selecting 2D right view Icon which is available on the model car image, cameras provides about wide 2D view of vehicle's surrounding on the Infotainment screen.

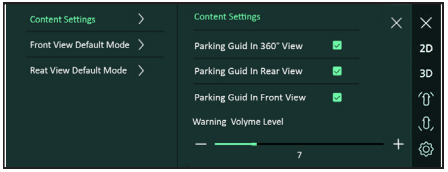
Press full view button to view right objects closer and press the same button to go back to the normal 2D right view.



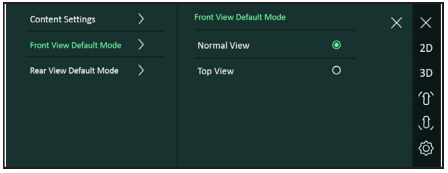

*2D Full Right view*

### Settings

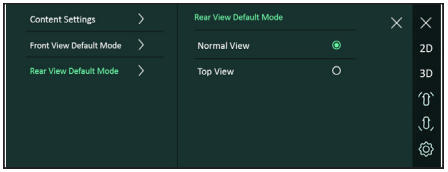
- By selecting the settings icon available on the infotainment screen, driver can change the settings as required.
- User can change the content settings based on the user choice.
- User can change the front and rear default view to any of the view i.e. either normal view or top view




*SVS content settings*




*SVS front view default mode settings*




*SVS rear view default mode settings*

### Cancel Icon

By selecting the cancel icon which is available on the top right corner of the infotainment screen, user can exit from the surround view system function.

It can be used for all the SVS features such as 2D, 3D, front & rear corner views.

It cannot be visible when vehicle gear state is reverse gear.

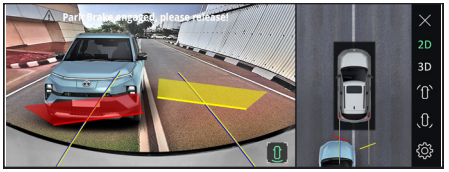

### Understanding Guidelines Indication

### Static Guidelines


### Dynamic Guidelines

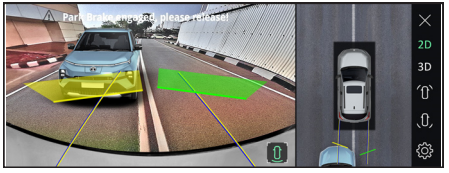

### Red Line

Indicates, if rear objects are in this colored zone, you have to stop the vehicle and not allowed to go backward. If you still go backward, your vehicle will hit the object.



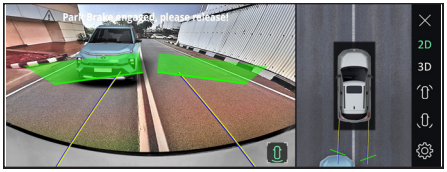

### Yellow Line

Indicates, if rear objects are in this colored zone, you have to take utmost care. However, objects fall in this zone, may not hit vehicle.




### Green Line

Indicates, if rear object is in this colored zone, you have to be cautious. Still you can go backward safely.




### PDC Guidelines Settings

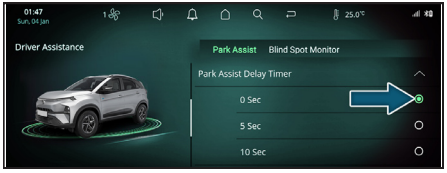
User can change the timer settings for PDC guidelines which is available on the infotainment display

By selecting the infotainment settings icon available on the infotainment screen use able to open the settings options available in the system.


The system will display the below screen when user select the settings icon. Select the driver assistance icon which is available on the screen.


In driver assistance system will provide many other options in that user should select the park assist delay timer. System will provide three different option such as 0sec, 5 sec and 10sec.

Based on the user choice he/she can select any option from the three.

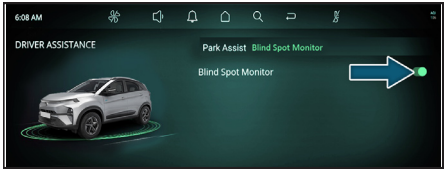



### Blind View Monitor

Blind view monitor will helps to reduce the crashes that happens when driver is being overtaken or changing the lanes.

This system should work in ignition on and run condition irrespective of the vehicle speed.

We can enable/disable the blind view monitor in HMI settings based on the user choice.

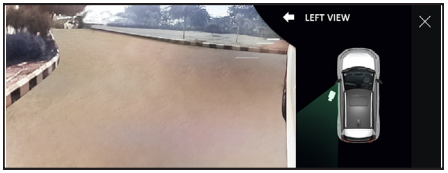



### Activation of Blind View Monitor

- This feature is activated when user turn on the left/right turn indicator.
- On activating the right turn indicator, right side rear view should be displayed on the infotainment along with static overlays.


*Right rear side view when turn on the right indicator*

- On activating the left turn indicator, left side rear view should be displayed on infotainment along with the static overlays.




*Left rear side view when turn on the left indicator*

**Deactivation Of Blind View Monitor**

- This feature is deactivated when user turn off the left/right turn indicator.

**Understanding Static Overlays Indication**

**Red Line:** Indicates, if rear objects are behind this colored line, you are not allowed to change the lane. If you still change the lane, your vehicle will hit the object.

**Yellow Line:** Indicates, if rear objects are behind this colored line, you have to take utmost care. However, objects fall in this zone, may not hit vehicle.

**Green Line:** Indicates, if rear object is behind this colored line, you have to be cautious. Still you can safely change the lane.

**ⓘ NOTE**

- *When SVS is in active condition then user turn on the left/right turn indicator then system should display the blind view monitoring and if user turn off the turn indicator then system return back to the SVS screen.*
- *When SVS is not in active condition, user turn on the left/right turn indicator then system should display the blind view monitoring. Once user turn off the turn indicator then system return back to infotainment home screen.*

**Do's And Don'ts**

- As the camera is, IP protected, do not detach, disassemble or modify in any manner from the actual position. This will show required visual information in display.
- Do not use camera when tailgate is open. If tailgate is open, visual information may not be the actual rear view of the vehicle & system will warn with message 'Tail Gate Open, Please close.
- Do not use camera when driver/passenger door is open. If any one of the door is open, visual information may not be the actual view of the vehicle & system will warn with message 'Door Open, Please close'. And also corresponding door side display shall be in dark image.
- Do not use camera when ORVM is folded. If ORVM is folded, visual information may not be the actual view of the vehicle & system will warn with message 'ORVM Folded'.
- When the camera is operated under fluorescent lights, sodium light or mercury light etc., illuminated areas on the lens may appear to flicker in the display.
- Do not attach any advertisement or styling or any kind of stickers on top of camera. If this happens, camera can-

not provide you the visual image and may damage camera.

- Do not add any accessory, which will obstruct camera field of view.

**Cleaning Camera**

1. Due to environmental reasons, dust, mud or fog may accumulate on the camera lens. So regularly clean the camera lens.
2. Use water to clean the camera lens. Do not use extreme cold or hot water. Rapid changes in temperature may brittle the camera lens. Do not apply High Pressure water for cleaning.
3. Wipe the camera lens with soft cloth.
4. Do not use hard cloth or material to wipe the camera lens. This will cause scratches on the camera, and leads to deteriorated visual image on the display.
5. Do not apply organic solvent, car wax, window cleaner or glass coat to clean the camera. This may damage the lens
6. Do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone etc). This may damage the camera lens
7. Do not apply heavy force on lens, while cleaning.
8. Do not remove mud, snow on the camera lens using stick or hard material. Use normal water and soft cloth.

**⚠ WARNING**

- The camera uses fish eye lens. So the size of the objects or in the display may differ from the actual size and distances in low light conditions, the screen may darken or image may appear faint.
- If the tyre sizes are changed, the position of the fixed guidelines displayed on the screen may change.
- During rainy conditions, image may get obscured. In such conditions, do not depend on camera view.
- The camera used in the vehicle, may not reproduce the same color of the real object.
- Do not apply any kind of force on the camera.
- High humidity and variation in ambient temperature may result into condensation inside the camera lens, which may further result into degradation of camera video feed on the screen. It is recommended that not to rely on camera video feed for parking assistance in such scenario. This phenome-non is temporary and will be automatically recovered with reduction in humidity and less variation in ambient temperature.
- The area displayed by the camera is limited. The camera does not display objects that are close to or below the bumper, underneath the vehicle, or objects out of the camera's field of view. The area displayed on the screen may vary according to vehicle orientation or road conditions.

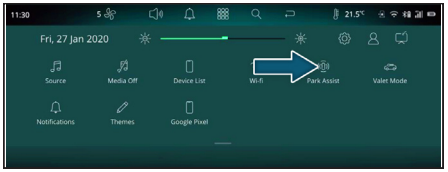
**⚠ WARNING**

SVS system is an aid only. User need to check surrounding for safety.

### Rear View Camera

Rear View Camera is a visual reverse guiding system. When reversing or parking, make sure that there are no persons, animals or objects in the area where you are reversing.

The display will be shown on the infotainment screen.





### Activation

#### Reverse gear

This system will start, if reverse gear is engaged, or park assist button (if equipped) is pressed or manual activation is done through Infotainment screen.

#### Deactivation

System will stop, if reverse gear is disengaged, or park assist button (if equipped) is pressed.

If started through infotainment, the system can be stopped using a cross button on infotainment screen.

### Understanding Guidelines Indication


*Static guidelines*


*Dynamic guidelines*

#### Green Line

You can safely reverse the vehicle, but be cautious if objects fall in this zone.

#### Yellow Line

You have to take utmost care if objects fall in this zone. However, the objects may not hit vehicle.

**Red Line**

Red line indicates that you have to stop reversing the vehicle. If you still go backwards, the car will hit the obstacle.

**Do's And Don'ts**

- Do not use camera when tailgate is open. If tailgate is open, visual information may not be the actual rear view of the vehicle & system will warn with message 'Tail Gate Open, Please close.
- When the camera is operated under fluorescent lights, sodium light or mercury light etc., illuminated areas on the lens may appear to flicker in the display.
- Do not attach any advertisement or styling or any kind of stickers on top of camera. If this happens, camera cannot provide you the visual image and it may damage the camera.
- Do not add any accessory, which will cause blockage to the camera's field of view.

**Cleaning Camera**

1. Due to environmental reasons, dust, mud or fog may accumulate on the camera lens. So regularly clean the camera lens.
2. Use water to clean the camera lens. Do not use extreme cold or hot water. Rapid changes in temperature may brittle the camera lens. Do not apply High Pressure water for cleaning.
3. Wipe the camera lens with soft cloth.
4. Do not use hard cloth or material to wipe the camera lens. This will cause scratches on the camera, and leads to deteriorated visual image on the display.
5. Do not apply organic solvent, car wax, window cleaner or glass coat to clean the camera. If this is ap-plied, wipe it off as soon as possible.
6. Do not apply heavy force on lens, while cleaning.
7. Do not remove mud, snow on the camera lens using stick or hard material. Use normal water and soft cloth.

**⚠ WARNING**

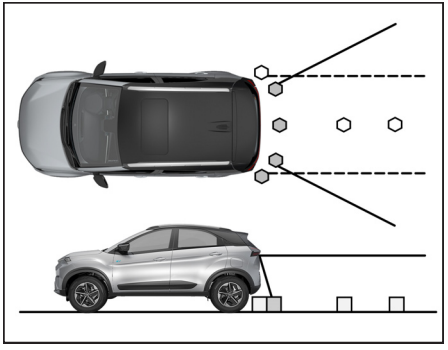
- The camera uses fish eye lens. So the size of the objects or in the display may differ from the actual size and distance. In low light conditions, the screen may darken or image may appear faint.
- If the tire sizes are changed, the position of the fixed guidelines displayed on the screen may change.
- During rainy conditions, image may get obscured. In such conditions, do not depend on camera view. The camera used in the vehicle, may not reproduce the same color of the real object.
- In case of damage of the rear portion of the vehicle, camera position may change. Which causes wrong visual information on display. In case of damage, make sure that, camera is fitted properly at the intended location.

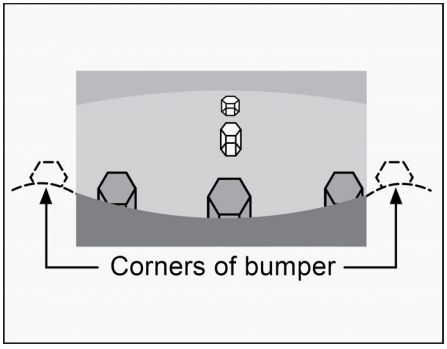
- In case of uneven road conditions or up-hill or downhill conditions, do not depend on rear view camera park aid.
- Do not apply any kind of force on the camera.
- Always use rear View mirrors along with Rear View Camera for confirming the safety of the rear and the surrounding conditions.
- High humidity and variation in ambient temperature may result into condensation inside the camera lens, which may further result into degradation of camera video feed on the screen. It is recommended that not to rely on camera video feed for parking assistance in such scenario. This phenomenon is temporary and will be automatically recovered with reduction in humidity and less variation in ambient temperature.
- The area displayed by the rear view camera is limited. The camera does not display objects that are close to or below the bumper, underneath the vehicle, or objects out of the camera's field of view. The area displayed on the screen may vary according to vehicle orientation or road conditions.

**Rear View Camera System Precautions**

**Area Displayed on Screen**

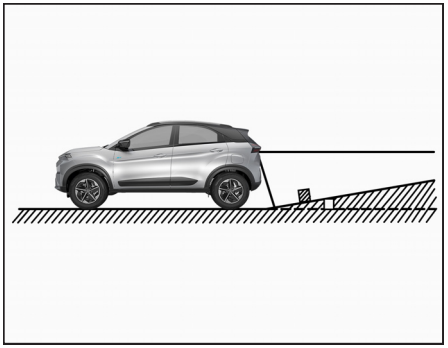
The rear view camera system displays an image of the view from the bumper of the rear area of the vehicle.

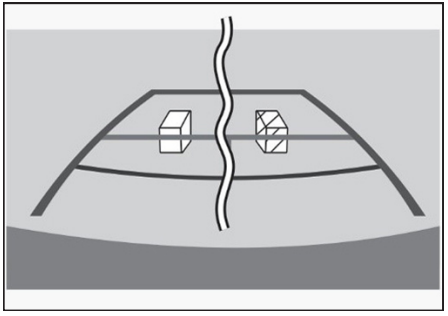





- The area displayed on the screen may vary according to vehicle orientation conditions.
- Objects, which are close to either corner of the bumper or under the bumper, cannot be seen on the screen.
- The camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance. The camera may not display items that are located higher than the camera's field of view.

**When sharp up gradient behind the vehicle**



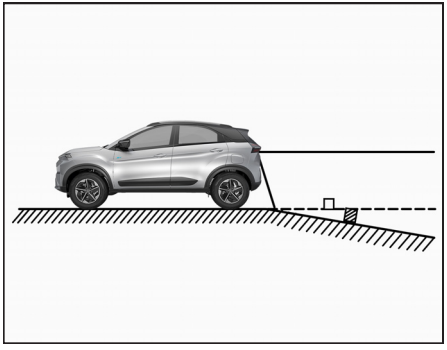


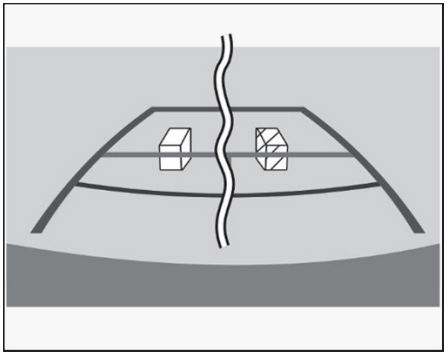
The distance guidelines will appear to be closer to the vehicle than the actual distance.

Because of this, objects will appear to be farther away than they actually are.

In the same way, there will be a margin of error between the guidelines and the actual distance/course on the road.

**When sharp down gradient behind the vehicle**

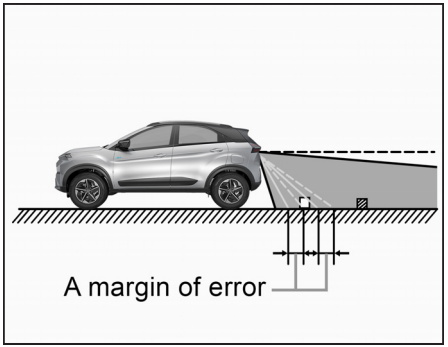




**ⓘ NOTE**

*The distance guidelines will appear to be further from the vehicle than the actual distance.*
*Because of this, objects will appear to be closer than they actually are. In the same way, there will be a margin of error between the guidelines and the actual distance/course on the road.*

### When any part of the vehicle sags

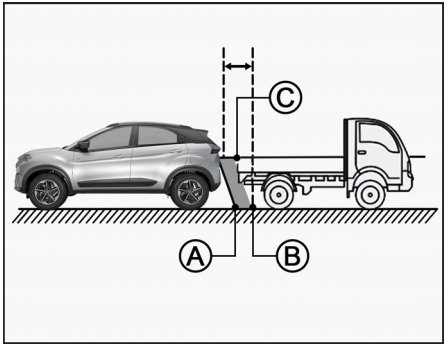


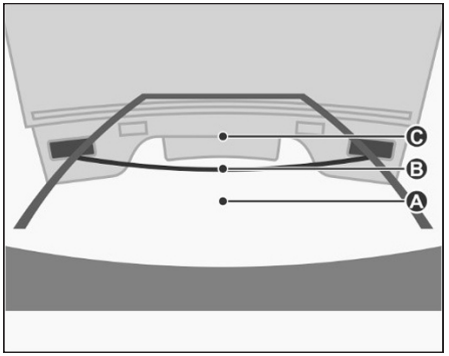

When any part of the vehicle sags due to the number of passengers or the distribution of the load, there is a margin of error between the fixed guide lines on the screen and the actual distance/course on the road.

### When approaching three-dimensional objects

The distance guidelines are displayed according to flat surfaced objects (such as the road). It is not possible to determine the position of three-dimensional objects (such as vehicles) using the distance guidelines. When approaching a three-dimensional object.

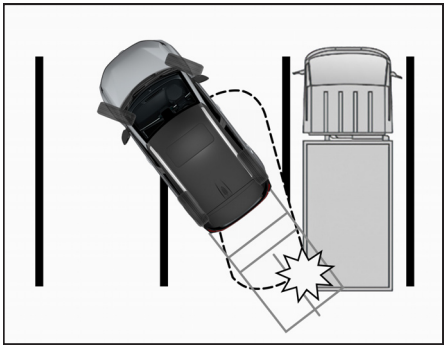
### Distance guidelines

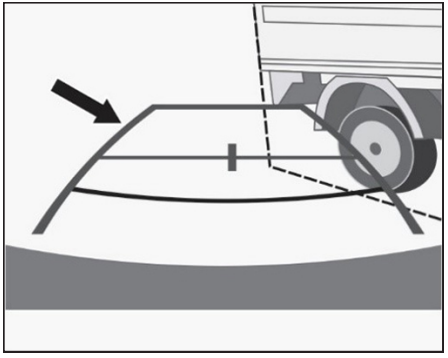



Visually check the surroundings and the area behind the vehicle. On the screen, it appears that a truck is parked at point B. However, in reality if you back up to point A, you will hit the truck. On the screen, it appears that A is closest and C is furthest away. However, in reality, the distance to A and C is the same, and B is further away from A and C.

### Vehicle width guidelines





Visually check the surroundings and the area behind the vehicle. In the case shown below, the truck appears to be outside of the vehicle width guidelines and the vehicle does not look as if it hits the truck. However, the rear body of the truck may actually cross over the vehicle width guidelines. In reality if you back up as guided by the vehicle width guidelines, the vehicle may hit the truck.

### Front Park Assist System

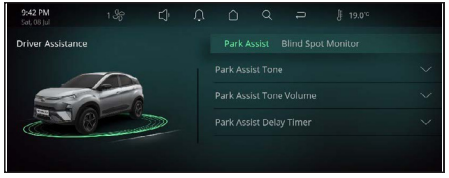

#### Activation

Front park assist option can be enabled through Infotainment screen.

Go to settings

Select Driver Assistance

Enable front park assist option




Front park assist will work in following conditions:

1. If reverse gear is engaged and Front park assist option is enabled.

2. if user has turned ON Low speed activation from user settings menu. Whenever vehicle speed is below 10kmph and reverse gear is not engaged and some object is detected in the front of vehicle.
3. After IGN ON (when vehicle speed is less than 10 kmph and reverse gear is not engaged). Audio warning for 10 seconds while the visual warning will continue to be shown till the object is present

**Deactivation**

System will stop, if reverse gear is disengaged and vehicle is moved above 10Kmph.

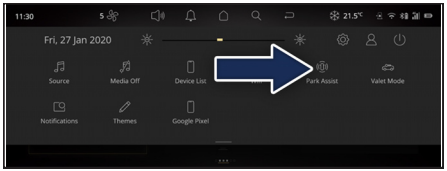
If started through infotainment, the system can be stopped using a Front Park Assist option on infotainment screen.

| Approx. Distance Range From Bumper (in cm) | Visual Warning | Audible Information |
|---|---|---|
| 25 – 30 | Red Zone | Continuous Beep |
| 31 – 60 | Yellow Zone | Fast Beep |
| 61 – 100 | Green Zone | Slow Beep |

**Reverse Park Assist System**

Park Assist system is an electronic parking aid that will assist you to park your vehicle safely when in reverse gear mode. It provides audio and visual information through the vehicles infotainment system.

The user can view the Park assist screen by selecting this feature in Infotainment display to see any obstacle behind the vehicle while parking.




The system also displays the Park assist screen when the reverse gear is engaged.

It provides audio and visual information through the vehicles infotainment system / Buzzer.

**⚠ WARNING**

0 to 25 cm obstacle detection performance is not guaranteed due to ultrasonic sensor technology limitation.

Variant where infotainment display is not present and audio warning is given through a buzzer, on activating the Park Assist system, a tone will be played within first two seconds to indicate the proper functioning of the system. After these two seconds, normal functioning of the system will continue. If no tone is heard for first two seconds, it shall mean that Park Assist System is faulty. The owner should, in that case, go to the nearest dealer for rectification.

**Park Assist Indications**

In case reverse park assist system malfunctions, fault message may appear on the infotainment screen.

Reason for this fault may be

1. Park Assist Controller / Body Control Module Failure”
2. Sensor Malfunction


**Reverse Park Assist Limitations**

Reverse Park Assist system is not a collision avoiding system. It is solely the driver’s responsibility to park the vehicle safely.

Reverse Park Assist feature works on ultra sound echo technology, due to which performance is not guaranteed in following scenarios:

- If the object has a sharp edge surface, where surface may divert echoes from sensor reception.
- If object is mesh fence made up of thin wires, where echoes can’t be given by the surface.
- Fast moving objects passes in the sensor’s field of detection, where echoes are not processed by the system.
- If object is made/covered by foam or sponge or snow where ultrasonic sound signals are absorbed.
- Objects close to the rear bumper can go undetected by the Reverse Park Assist’s field of detection. Driver should use extreme caution while parking the vehicle.
- If height of the bumper is changed due to alteration to the suspension or other causes.

- If the sensor areas are extremely hot from direct sunlight or cold due to freezing weather.
- If Sensors are covered by a hand, sticker, accessory, etc.
- If ultrasonic noise is present around Vehicle due to other vehicle sensors, horn, air braking system (large vehicles), Wireless transmitters or mobile phones.
- If the vehicle speed exceeds 10kmph, the system will not warn you even though objects are detected, error message 'Vehicle Speed is high, drive slowly!' will appear.
- Driving on uneven road surfaces e.g. Gravel, unpaved roads, Artificial Speed Breakers, or gradient.
- Poles of square/rectangular cross section might not be detected due to the ultrasonic technology limitation.

**⚠ WARNING**

Due to any reason, if the sensor gets misaligned or loses its intended fitment position, contact your dealer for refitment.

**ⓘ NOTE**

*Turning the ignition 'OFF' 'while the park assist feature is active would disable it.*

**Reverse Park Assist System Preventive Maintenance**

- Regularly clean the Sensors/camera* (*if equipped) and keep them free from dust, ice, mud, water, chewing gum etc. for proper working of the system. Use a smooth cloth for cleaning.
- Do not use water at high pressure for cleaning the sensor or camera.
- Do not cover the Sensors/camera* (*if equipped) surface with any additional fitment. This will interrupt park assist performance.
- Do not remove mud, snow on the sensors using stick or hard material. Use normal water and soft cloth.

**General Warning**

1. In low light conditions, the screen may darken or image may appear faint.
2. If the tire sizes are changed, the position of the fixed guidelines dis-played on the screen may change.
3. In case of damage of the rear portion of the vehicle, Reverse Park Assist sensors position may change which causes wrong visual information on display. In case of damage make sure that Reverse Park Assist sensors are fitted properly at the intended location.
4. In case of uneven road conditions or up-hill or downhill conditions, do not depend on Reverse Park Assist aid.
5. Do not apply any kind of force on the reverse park assist sensors.
6. Always use rear view mirrors along with Reverse Park Assist for confirming the safety of the rear and the surrounding conditions.

## AUTOMATIC VEHICLE HOLD (if equipped)

AVH holds the brakes once vehicle speed reaches zero at traffic lights or a junction, thus avoids unintended vehicle rolling. Once activated through AVH switch Automatic Vehicle Hold maintains brake force even after you release the Brake Pedal. You can then release the brake pedal and remain stopped, even on a hill.

To disengage AVH, press the accelerator pedal.

### How to Apply

1. Depress the Brake pedal.
2. Ensure seatbelt is fasten and driver's door is closed.
3. Press AVH switch.
4. Auto Hold indication turns on in the Cluster which indicates AVH is turned ON and in Standby mode.
5. When the vehicle reaches the standstill condition though brake pedal is released AVH holds the vehicle and AVH indication changes the color from white to green.

AVH will be released when accelerator pedal is depressed in R (Reverse), D (Drive).

**ⓘ NOTE**

- *When the vehicle is turned off keeping the Auto Vehicle Hold in the ON condition, Auto Vehicle Hold will gets released and EPB will get automatically applied.*
- *For safety, for smooth take off depress the accelerator pedal slowly when the AVH is active.*

### Vehicle Hold Warning Indicator

AVH indication and warning lamps turns ON (white which will appear on the cluster is provided below.




AVH indication ON


AVH active indication (Green color)


AVH failure indication (Amber color)

### How to Disengage AVH

In Ignition ON Condition depress the Auto hold switch the Auto Hold indication in white color will disappear from the cluster indicating AVH is turned off.

AVH once turned ON will not be turned off automatically until it is deselected by switch input from user.

**ⓘ NOTE**

*Auto hold function will not become active if*

- *Driver Seat bet is not buckled.*
- *Driver Door is not closed properly.*
- *EPB is in applied condition.*

For end user safety Auto hold will shift automatically to EPB in below conditions:

1. Vehicle is in standstill for more than 3 minutes.
2. Gear leaver shift from any of Drive (D), Reverse(R) to Park (P) Position for AT Transmission vehicles.
3. If you turn off the vehicle/Ignition in standstill condition.
4. Vehicle is standing on steep slope.

In above conditions AVH indication will change from Green to white and EPB indication will turn on in the cluster.

**⚠ WARNING**

If any abnormality is present in the system, AVH malfunction lamp in amber colour will glow which is amber in colour. Kindly do the ignition latch of 30 seconds and check if the same behavior is there. If the Malfunction lamp is still there, get your parking brake system checked with the TATA MOTORS EV Authorised Service Centre.

## CLIMATE CONTROL

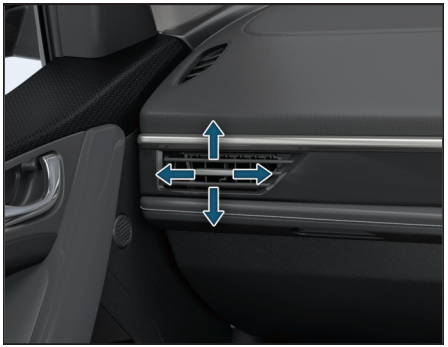
### Air Distribution

The Climate Control regulates the temperature inside the vehicle and filter the dust particles in cabin based on the user set temperature settings. The air is distributed through the vents in the passenger compartment as shown below:

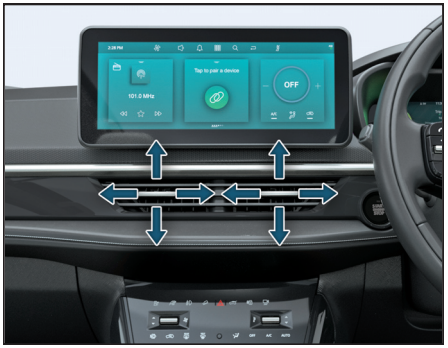
## Air Vents

### Dashboard Side And Front Centre Vent

Air vents are available on the dashboard. The direction of air flow can be adjusted using sliders on the respective vents.



*Dashboard Side Vent*

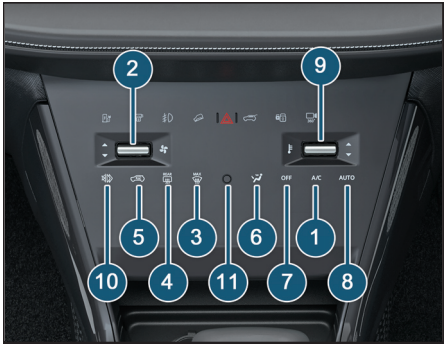


*Front Center Vent*

## FULLY AUTOMATIC TEMPERATURE CONTROL (FATC) (if equipped)

FATC system controls the in-cabin temperature of the vehicle automatically and provides maximum passenger convenience regardless of outside weather conditions.

### Display Unit




1. AC ON/OFF
2. Blower control toggle switch
3. Maximum defrost
4. Rear window demister

5. Fresh air / recirculation
6. Air distribution (mode)
7. OFF mode
8. Auto ON selection
9. Temperature control toggle switch
10. Xpress cooling
11. In car Sensor

**Display Screen**


FATC display is shown on main display screen.

FATC functions can be controlled using both the FATC control panel and the touch screen display.

Whenever the user selects any switch or moves the toggle switch, then the display unit will show the relevant climate Information.

Also, when the display is not in climate mode then climate information will be displayed on the all-time display available on the top bar and widget.

**AC ON / OFF**


Select the AC ON/OFF switch to turn the air conditioning ON or OFF. The AC icon activated on the display when the AC is ON.

**Blower Control Toggle Switch**

Move toggle switch up & down to increase & decrease the blower speed.

**Max Defrost**


1. It directs the main airflow towards windscreen for faster defrosting. (It also overrides any mode selection you may have made).
2. When you turn off the maximum defrost, the system returns to its former settings.

**ⓘ NOTE**

*For your safety make sure you have a clear view through all the windows before driving.*

**Rear Window Demister**


Select the rear window demister switch to turn it ON or OFF. The system will be deactivated after 15 min of continuous operation.

### Fresh Air / Recirculation

1. When the recirculation switch is turned ON, air from the vehicle's interior is sent throughout the system.
2. When the recirculation switch is turned OFF, air from outside enters into the cabin (fresh mode). Whenever discomfort is felt, switch to fresh air mode.

**ⓘ NOTE**

*The outside air intakes for the cli-mate control systems are at the base of windscreen. Keep this area clear from leaves and other debris.*

Use recirculation mode for faster heating and cooling. However, keeping the system in recirculation mode - particularly when the AC is in OFF - can cause fogging of windows.

### Air Distribution (mode)

In AUTO mode, the FATC system will regulate the mode automatically. However, user override is possible with the use of MODE switch to select the desired airflow mode.

Each time you select the MODE switch, the display shows the mode selected.

| | |
|---|---|
|  | Directs air through the center and side air vents |
|  | Directs air through the center, side and foot well vents |
|  | Directs air through the foot well air vents |
|  | Directs air through the defroster & foot well vents (Default fresh air mode) |
|  | Directs air through the defroster vents (Default fresh air mode) |

### OFF Mode


Select the OFF switch to turn the system 'OFF'. OFF will be displayed on the infotainment screen.

### Auto ON Selection Button


To put the automatic climate control in fully automatic mode:

1. Select the 'AUTO' switch.
2. Set the desired temperature by toggle switch. The display will show all the functions during 'AUTO' mode.
3. The system automatically selects the proper mix of conditioned and / or heated air that will, as quickly as possible, raise or lower the interior temperature to your preference.
4. When you set the temperature to its lower limit (LO) or its upper limit (HI),

the system runs at full cooling or heating only. It does not regulate the interior temperature.

**ⓘ NOTE**

*In 'AUTO' mode, the FATC system will regulate the blower speed automatically.*

### Semi-automatic Operation

You can manually select various functions of the climate control system when it is in fully automatic mode. All other features remain automatically controlled. Making any manual selection causes the word 'AUTO' in the display to go OFF and the overridden setting is displayed. System will remain in semiautomatic mode till 'AUTO' is selected again.

### Temperature Control Knob

Move the temperature control toggle switch up to increases the temperature of the air. The desired temperature will be increased by steps of 0.5ºC. User can select temperature range from 18ºC to 30ºC. Move the toggle switch down to reduce the temperature.

When you set the temperature to its lower limit (LO) or its upper limit (HI), the system runs at full cooling or heating only. It doesn't regulate the interior temperature.

### Xpress Cooling

XPRESS Cooling can be turned ON/OFF by selecting XPRESS COOL icon. This helps cabin to reach to comfort temperatures quickly by optimally setting the air conditioning to maximum cooling.

Also, if required, the driver window will roll down to flush the hot air from inside the cabin. Once cabin has been sufficiently flushed, the system will announce to take driver window's roll up which can be taken up using window winding switch.

Driver side window may roll down, if:

- The cabin temperature is more than outside temperature.
- If it is not raining.
- Vehicle Speed is less than 40 kmph

Further, after sufficiently cooling the cabin, the Xpress cooling function will auto switch off and revert back to customer pre-selected settings.

Xpress cooling functionality is used to improve the HVAC system performance in case of cabin temperature being considerably greater than outside air temperature. The system will be deactivated automatically after 500 sec of continuous operation.

**ⓘ NOTE**

*The Xpress Cool function can only be turned ON if the Ambient temperature is above 18 degree Celsius.*

## FATC Sensors (FATC Only)

### Solar Sensor

FATC system is fitted with three sensors.(if equipped)

Solar sensor is on the top of the dashboard at the right hand side of defroster grill.

### Outside Ambient Temperature (OAT) Sensor

Outside Ambient Temperature (OAT) sensor located under the front bumper grill.

### In-car Sensor On Control Panel

In-car sensor is located on FATC control panel.

**ⓘ NOTE**

- *Do not cover or spill any liquid on sensors.*
- *Do not cover sensor, this may cause the sensor to malfunction. This may lead to FATC not functioning to desired level.*

## CABIN AIR PURIFICATION

The Climate Control System fitted with advance filter for cabin air purification.

**ⓘ NOTE**

*Replace the Filter as per Maintenance schedule. More frequent filter replacement are required/ recommended in case of vehicle is driven in heavy dusty conditions. If the vehicle is driven in heavy dusty conditions more frequent filter replacement are required. Replace the filter if you find poor ventilation, cooling or d00emisting and poor Air Quality Index (AQI).*

### Air Quality Index : (If equipped)

- Climate control system fitted with FATC calculates Air Quality Index (AQI) of cabin using PM2.5 AQI Index.
- FATC System in AUTO Mode automatically sets the blower speed and switches to recirculation air mode to improve AQI inside the cabin.
- The calculated AQI is displayed on display unit along with severity index.


**ⓘ NOTE**

- *AQI calculation will be effective after 30secs , ignition ON and no value will be displayed during this period.*
- *If AQI does not improve in some time get sensor and Cabin filter inspected.*

## FASCIA SWITCHES


1. Charging gun lock/unlock
2. Front Fog Lamps (If equipped)
3. Hill Decent Control
4. Hazard warning switch
5. Tail gate opening
6. Central lock/unlock
7. Surround View System (SVS)

### 1. Charging Gun Lock/ Unlock

To release the charger gun, press the switch located on fascia switch. Charging socket inlet is located at Rear LH side of

vehicle.

**ⓘ NOTE**

*Make sure both AC slow charging & DC fast charging is De-energised / off state.*

### 2. Front Fog Lamps (if equipped)

The front fog lamps are located on the front bumper. In poor visibility conditions due to fog, snow or rain, the fog lamps make visibility better and make it easier for other road users to see you. It turns to 'ON' when the fog lamp switch is turned on when the ignition is 'ON' and when the position and parking/ head lamp is 'ON'. An indicator on front fog lamp knob will come on when the front fog light is 'ON'.

**Lamp Condensation / Fogging Condition**

Condensation is a natural phenomenon in Lamp. This occurs mainly because of atmospheric condition/weather change. During normal condensation, thin film of mist is visible on the inside surface of the exterior lens. Generally, this condition is considered normal and will be eliminated by turning on the respective lamp with engine running or during normal driving conditions. By doing this if the condensation has begun to clear after the drying time it indicates that the lamp sealing has NOT been breached and will eventually clear. The lamp must NOT be replaced.

**ⓘ NOTE**

- *All Exterior lamp fogging / condensation is natural occurrence and respective lamp assembly replacement will not necessary to resolve the issue.*
- *High-pressure washer jet direct on vent system of lamp are not recommended, there might be possibility.*
- *Presence of condensation / mist in non-functional area is normal and acceptable, no action is recommended.*

### 3. Hill Decent Control

While driving down on a hill slope, activate the HDC feature by pressing this switch.

### 4. Hazard Warning Switch

Press the hazard warning switch to activate the hazard warning. All the turn signal lamps will flash simultaneously. To turn OFF, press the switch again.

### 5. Tail Gate Opening

To unlatch the tail gate, press the switch located on fascia switch.

### 6. Central Lock/unlock

To open the door, press the Lock/unlock door switch located on the fascia switch.

### 7. Surround View Camera (360° View)

Press this switch to see the 360°view in the display screen.

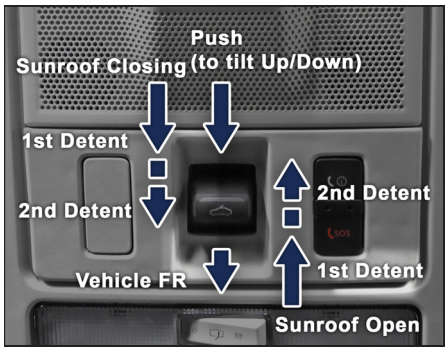
## POWER SUNROOF (if equipped)

It bring natural light and fresh air into passenger compartment .The cabin becomes more illuminated and bright which gives pleasant feeling while driving and makes driving experience more enjoyable and relaxed.

Sunroof allows air to flow evenly from the roof which is more quieter and less intrusive than wind blowing through a side window.

Sunroof can be operated by Manual Switch, Voice Command and by Rain Detection/Vehicle Lock.

### Manual Switch

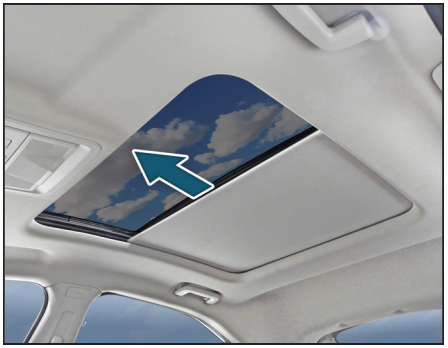



This switch is used to open, close, tilt up & tilt down the sunroof as and when required with switch intended operation.

1. Pull the knob away from the windshield to open the sunroof. It will be having two detents.
   - 1st detent Manual (long press) to open and stop at desired position.
   - 2nd detent Express (one touch) to open Sunroof completely.
2. Push the knob towards the windshield to close the sunroof. It will be having two detents.
   - 1st detent Manual (long press) to close and stop at desired position.
   - 2nd detent Express (one touch) to close Sunroof completely.
3. Press at the center of the knob for tilt up/down function. Sunroof switch mounted in overhead console near roof lamp.

### Sunshade Open Position

**Sunshade Close Position**



### Sunroof Voice Command

Ensure vehicle is in IGN ON/running condition.

- Enable voice recognition via steering wheel switch or TATA Assist icon from the infotainment screen.


- System will prompted with “How can I help?”
- Give the “sunroof open/close” command. Sunroof will be opened/closed.


### Warning for Voice Command

- Speak the commands /Instruction in a neutral English accent for best results.
- Do not take long pauses (greater than 1 second) while speaking the words in a command. Speak the words of the command at a constant rate.
- Avoid varying your pitch and volume while speaking the commands. Speak clearly and loudly at a reasonable speed.
- Ensure that there is no noise disturbance when you speak the commands like, other passengers in the vehicle

are talking or there is lot of wind noise. Disturbance from external sound sources may result in poor voice recognition.

- Always face forward while speaking your commands as the voice recognition quality is best in this orientation.

### Sunroof Closure on Auto Detection of Rain/vehicle Lock

For User Convenience / Protection of vehicle, sunroof will automatically close under following conditions:

- Rain Detection: When sunroof is open and rain is detected (based on Wiper speed is slow/high upon raining), then Sunroof will close automatically
- Vehicle Locking: The sun roof will close automatically when ignition is off and vehicle is locked from out through driver door manual key or by remote key.

**ⓘ NOTE**

*Combi Switch should be in auto mode to close sunroof with rain sensor.*

### Automatic Reversal / Anti-pinch Function

If the sunroof senses any obstacle while it is closing then it will reverse its direction and opens the sunroof so that trapped object will get released easily. The auto reverse function may not work if very thin or soft object is caught between the sunroof assembly. Anti-Pinch/ Automatic reversal is a safety feature however to override it and operate sunroof manually, press sunroof close switch within 10 seconds of auto-reversal completion and hold it till sunroof is fully closed.

**⚠ WARNING**

Never try pinching of any part of your body intentionally to activate the Automatic reversal function.
The Automatic reversal function may not work if something gets stuck just before the sunroof fully closes.

### Warning For Sunroof

Even though the sunroof can be operated when the ignition key is in the ON position (the vehicle is not running), operating the sunroof repeatedly with the vehicle turned off will run down the battery. Operate the sunroof while the vehicle is running

When a desired sunroof operation is completed, release the switch. If you keep pressing the switch, it could cause a malfunction. Especially in winter, never operate the sunroof if moving areas are iced. Wait until the areas are de-iced.

Make sure head, hands, arms or any other body parts or objects are out of the way before operating the sunroof. Body parts or objects may get pinched causing injuries or vehicle damage.

Never deliberately use your body parts to test the automatic reversal function. The sunroof glass may reverse direction, but there is a risk of injury.

Dust accumulated between the sun-roof and roof panel can make noise or cause any damage. Open the sunroof and remove dust regularly using a clean cloth.

Do not sit on the top of the sunroof. It may cause injury or vehicle damage.

Do not allow passengers to lean out of an open sunroof whilst the vehicle is in motion. Injuries may occur from objects such as tree branches.

Safety of the vehicle occupants must be observed at all times. Do not allow limbs to be placed in the moving path of the sunroof at any time, injury may occur.

**⚠ WARNING**

High Pressure wash Jet Flow should not be directed on Sunroof sealing area around periphery of glass. Doing so many lead to water leakage inside cabin.

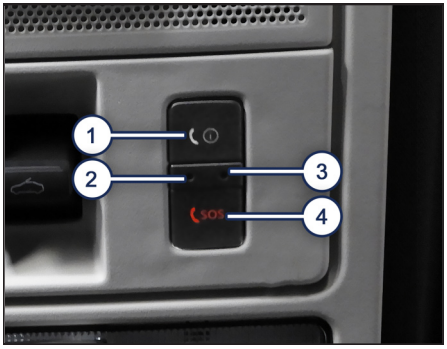
### Initializing The Power Sunroof

In the event of a power failure or while replacing the dead fuse or battery disconnection when the sunroof is in motion, then sunroof will require initialization when the power is restored.

### Initializing Procedure

1. Turn ON the ignition.
2. Close the sunroof fully by pressing ‘sunroof close switch’ and keep the switch pressed for 1-2 seconds after the roof is fully closed, till clicking sound comes from Sunroof.
3. The Initializing command is complete, Check if the Express open/close features are working.

### B-call and E-call Switch



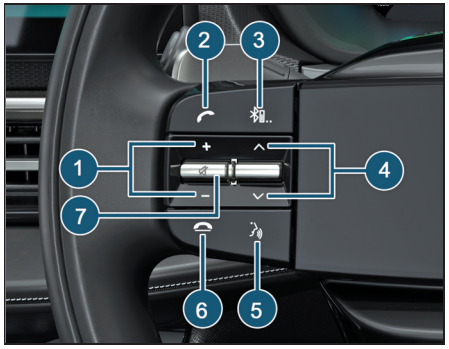

1. **B-Call Switch**: B-Call (Breakdown Assistance) will connect you to a TATA MOTORS Roadside assistance for Towing. Not for ambulance service.
2. **Red LED Indication**: Red LED indicates the fault or failure in B-Call/E-Call functionality.
3. **Green LED Indication**: Green LED indicates the status of ongoing B-Call or E-Call.
4. **E-Call Switch (Emergency Call or SOS Switch):** E-Call will connect you to towing and ambulance services.

**ⓘ NOTE**

**Subject to mobile network, connectivity and location mentioned.*

## STEERING MOUNTED CONTROLS (if equipped)

### Steering Mounted Controls (LHS)




**1. Volume**

Press above switch to increase or decrease volume of music system / radio.

**2. Phone Receive**

Press above switch to accept incoming call when a cell phone is connected via Bluetooth.

**3. Source**

Press above switch to select the required

source in the infotainment system i.e. USB, AM, FM and Bluetooth.

**4. Seek Forward/backward**

This will function in the two modes.

Radio Mode - will change radio channels.

Media Mode - will change sound tracks.

**5. Push To Talk**

For Voice Recognition, press this switch. The system mutes/ pauses the currently played audio and you will hear a beep sound to indicate the activation of the voice recognition feature. The system displays the voice recognition screen on Infotainment to indicate activation of the feature.

**6. Phone Reject**

Press the switch to reject or hang up a phone call.

**7. Mute**

For mute, press this switch. The system mutes/ pauses the currently played audio.

Press above switch to reject or hang up a phone call. It is also used to mute the volume of music system/radio

**Master /force Restart Process**

If your infotainment system touch screen becomes unresponsive or shows some unusual behavior, then you can restart it to potentially resolve the issue. Follow some basic steps given below and you can restart the system.

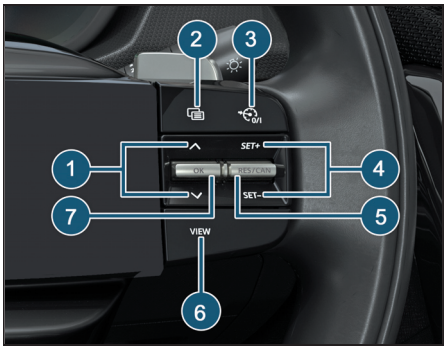
To restart the infotainment system

1. Park the vehicle.
2. Hold the Steering wheel Mute button (long press) (as shown in above image) for about 10 secs.
3. Now hold the Steering wheel source change button (long Press) for more than 10 sec) and release as soon as display's goes blank

**ⓘ NOTE**

- *It is preferable to do one Ignition OFF to ON cycle after Master/Force restart to synchronize vehicle settings with the TATA Infotainment System.*
- *If the reboot does not work or master/force restarts are required on a weekly or daily basis, vehicle shall be taken to dealership. There, the dealer can update your firmware or inspect the system for hard-ware problem.*
- *Force/Master restart keeps the stored data, such as call history, text message information, and previously paired phones as it is.*

## Steering Mounted Controls (RHS)




**1. Page Up/down**

If cluster screen is selected, with Up/Down switch you can access the submenu screens of a main menu.

**2. Pagination**

Press the switch to enter in to cluster screen.

**3. Cruise ON/OFF**

Press the switch to turn ON/OFF the cruise function.

**4. SET+/ SET-**

Accelerate the vehicle to desired speed, Press the SET + to select the required cruise speed. When the cruise control is set, you can increase or decrease the speed by pushing SET+/ SET- buttons respectively.

**5. RES / CAN**

To resume a previously set speed, push the RES button and release. This switch is also used to cancel /deactivate (CAN) cruise control system without erasing the set speed from memory.

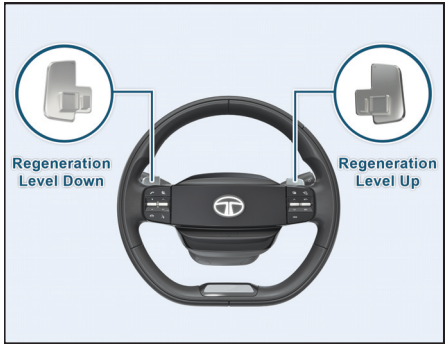
**6. View**

Press the view button to switch between the dials & driver information display of instrument cluster.

**7. Selection (OK)**

Push the OK button to access/select the submenu screens of a main menu item.

## Regeneration Switch



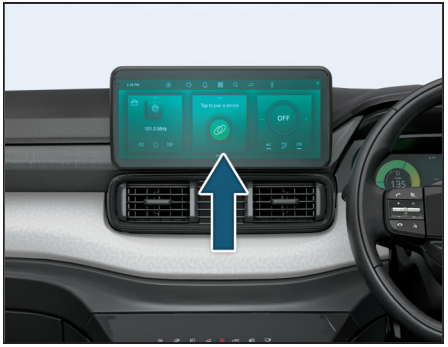

- By using the regeneration switch (Pull type) driver can Up/Down regeneration level.
- Level down switch can be used to reduce regeneration level (3 →2 →1 →OFF)
- Level Up switch can be used to increase the regeneration level (OFF →1 →2 →3)
- Default regeneration level on the vehicle when vehicle is cranked will be Level 1.

| Drive Modes | Default Regeneration |
|---|---|
| Sport | Level1 |
| City | Level1 |
| Eco | Level1 |

| Drive Modes | Default Regeneration |
|---|---|
| OFF | No Regeneration |
| Level 1 | Minimum Regeneration |
| Level 2 | Intermediate Regeneration |
| Level 3 | Maximum Regeneration |

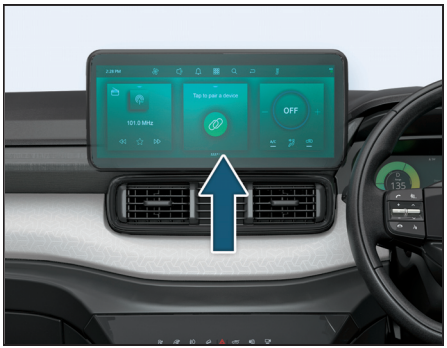
## INFOTAINMENT SYSTEM DISPLAY

### Option I



### Option II

### Option III



### Master /force Restart Process

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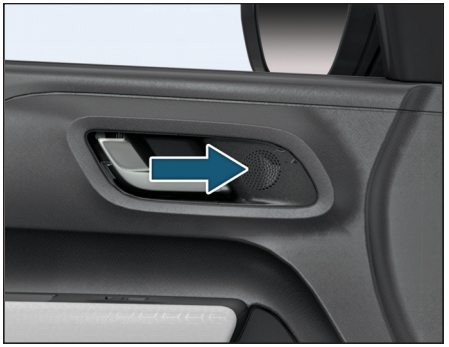
## MIC (if equipped)

Mic is provided on the roof near the roof lamp.

## SPEAKERS & TWEETER (if equipped)



Speakers and Tweeters are available in models with infotainment system. Provisions are given for music system and speakers on versions without infotainment system.

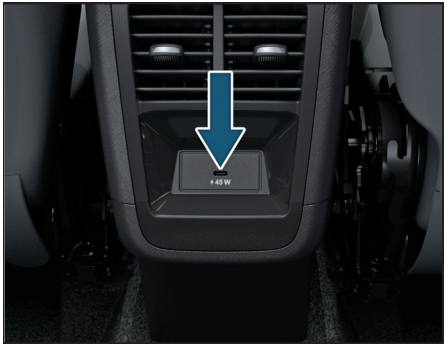
## USB Port(if equipped)

### Front USB A + C Charger

A type USB port is used to connect your portable digital music players, pen drives etc. for playing music tracks through the vehicle's music system.

C type USB port is used for fast charging of mobiles which are having C type interface.

### Rear USB C Charger



Connect to fast charger your device like smartphone/Tablets/Laptop/iPhone /iPad

## POWER SOCKET

### On Center Console


Connect to fast charger your device like smartphone/Tablets/Laptop/iPhone /iPad.

**ⓘ NOTE**

- *Use of unapproved electrical accessories can cause damage to your vehicle's electrical system.*
- *Make sure that any electrical accessories you use are designed to plug into this type of socket and rating.*

### Behind Rear Seat On LH Side

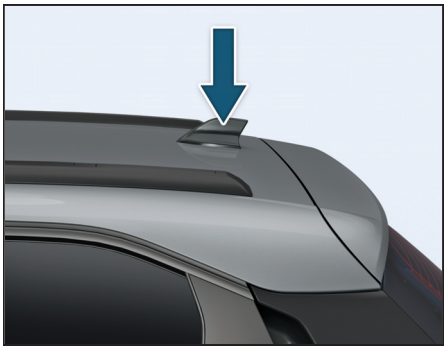

The power socket will work when the ignition switch is in the “ACC” or “ON” position.

This socket can be used to provide 12V (10A) power for electrical accessories.

**ⓘ NOTE**

- *Use of unapproved electrical accessories can cause damage to your vehicle’s electrical system.*
- *Make sure that any electrical accessories you use are designed to plug into this type of socket and rating.*

### ANTENNA (if equipped)

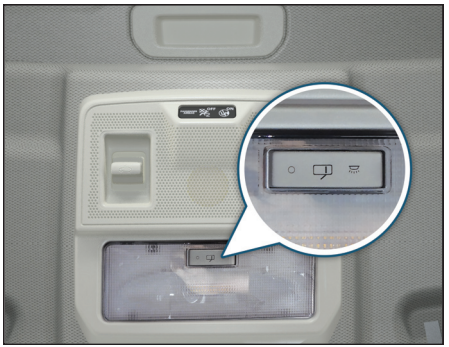


Shark FIN antenna is provided on the roof at rear end.

## LAMPS

### Roof Lamp

Interior roof lighting lamp is provided on the roof with inbuilt switch.



**a) ON**

The lamp will turn ‘ON’ as long as the switch is in this position.

**b) DOOR**

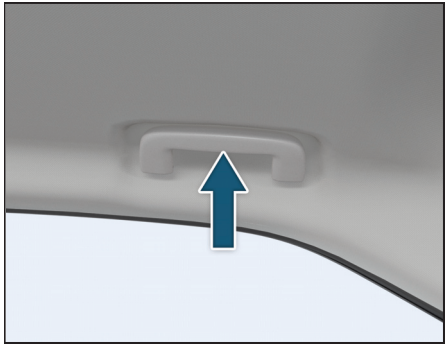
In this position the lamp turns to ‘ON’ when either of the doors are opened. When the last door is closed, the lamp will turn ‘OFF’ with dimming. This helps settling in the seat and inserting the key in the ignition switch. When the key is turned to the ‘IGN’ position, the lamp goes ‘OFF’ immediately.

**c) OFF**

In this position, the lamp will remain ‘OFF’.

## Boot Lamp

## ROOF GRAB HANDLE



Grab handles are installed on the roof for all seats except for the driver’s seat. These help the passengers to position themselves comfortably during the journey.

## VEHICLE TELEMATICS

Car is equipped with iRA - Connected car Technology which offers a host of features to the users through the “iRA - Connected car” Mobile Application (APP). The Vehicle is equipped with an Electronic Control unit which monitors & records the data from various vehicle systems like Engine, Transmission, Brake, Battery & other electrical systems. This data is then processed & used for providing the connected Car features. (Refer the app tour section of the mobile app.)

The Connected Car module records the following information:

**Vehicle Telematics**

This includes the periodic transmission of data from other vehicle ECUs & Electronic systems like EMS, ABS, Air Bag, BMS and BCM etc. along with the geographical location of the vehicle.

**Vehicle driving behavior**

This includes the location, speed, acceleration, trip details, charging etc.

**Event based recording**

This includes data generated during specific events like vehicle collision, intrusion, un-authorized entry etc.

The Data collected through Connected Car module is used by TATA MOTORS Passenger Electric Mobility Limited for various purposes, including, but not limited to, providing connected car features through mobile APP.

- Evaluation of Vehicle performance.
- Research & improvement of current & future vehicle designs.
- Troubleshooting & diagnostics of the vehicle.

TATA MOTORS does not disclose the data recorded from your vehicle to any third party except:

- After obtaining a written consent from the Car Owner.
- Upon request from Law enforcing agencies and regulatory bodies.
- Used for research purpose without the Personal Verifiable information (anonymized).
- Used as defence of TATA MOTORS in a Lawsuit.

## WIRELESS POWER CHARGING (IF EQUIPPED)

### WPC System Description

Wireless Power Charging (is a convenience feature to charge the smart mobile phone using wireless charging technology, without a need to plugin wire in the device.

The WPC system is powered with vehicle battery and the wireless power charging function is enabled with Ignition ON.

### Qi Compatible Term

**Qi 1.1.4:** refers to certified product with the capability to transmit power of up to 15 W and detect metal and other impurities to prevent heating.

**ⓘ NOTE**

*The WPC would support only those smart phones which are Qi compatible. Please refer to the smart phone manual or connect to smart phone manufacturer to check whether your smart phone supports Qi function.*

### Location of Wireless Charger

**Location:** The location of the WPC in vehicle is in the Centre console area as below.

### Function of Each Component of WPC

- **Wireless Power Charging (WPC) ECU:** Generates power up to 15W and transfer power wirelessly by magnetic induction.
- **Anti-skid Mat:** Holds the position of smart phone placed on it against any jerk and acts a charging contact surface for the smart phone.
- **Cooling FAN:** It is provided to keep charging surface temperature within ambient temperature range.
- **FAN Cover:** It has ducts to direct FAN air on WPC ECU surface.
- **Infotainment unit:** It is status display unit to display the status of wireless power charger. Status symbol and text display is displayed on Infotainment unit.

### Functions of WPC System

**A. Charging function:** Charge smart phone

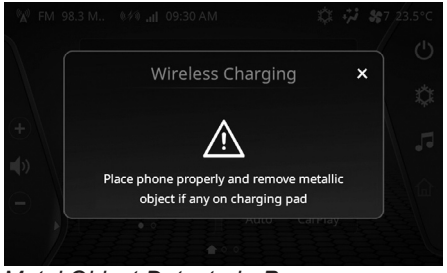
Following all the conditions are applicable in this feature to function correctly

- Ignition ON (vehicle OFF)
- Vehicle ON
- Smart phone placed in correct orientation on the antiskid mat as below

WPC system detects the presence of phone and starts charging as per the Qi standard protocol. The charging status is updated and displayed on the head unit.

**B. Charging Status display function:**

1. WPC system in standby mode : WPC system is waiting for phone or phone is not getting detected by the WPC system etc. Customer is advised to check the Qi compatibility/phone alignment/any foreign object between the phone and mat.
2. Smart phone charging ON **:** Phone is charging
3. Metal object on the antiskid mat **:** Customer is advised to check any metal object on antiskid mat, if found, it is to be removed.
4. Smart phone battery is full/Charging completed
5. WPC ECU error (“Error” condition indicates abnormal operating conditions internal system fault or fan stuck/jam) : Customer should realign the phone to center to initiate charging. If problem is not resolved you are advised to visit the TATA MOTORS Authorised Service Centre.




*Metal Object Detected - Popup*


*Metal Object Detected -All Time Display*

**Conditions to Charge Phone Properly**

1. Keep the charging surface clear of any metal objects (coins, credit cards, smart cards, keys etc.)
2. Place the smart phone on the charging area marked for positioning the phone, for best results place the smart phone at the center of the charging pad.
3. Charge the smartphone without its cover or not a thick cover otherwise it would halt the wireless charging
4. Ensure that the phone is placed with display facing upwards and charging area touching the charging pad surface.
5. Turn ON the ignition to start the charging.

**INFORMATION**

- The wireless charging function is supported to charge smart phones which are Qi compatible. Certain features may not function as not supported by the smart phone manufacturer and not a malfunction of the wireless charging.
- Wireless charging stops with Ignition OFF.
- Wireless charging stops when the smart phone is not completely in touch with the charging pad surface or not positioned correctly on charging pad

**Do's and Don'ts**

**⚠ WARNING**

1. If any metal object such as coin is located between wireless charging pad and phone back, the charging may get disrupted. Also, metal object may heat up.

**Do's:**

1. Please ensure that the phone is compatible to the charging standard "Qi".
2. If any metal object found on charging pad remove it immediately.
3. In case of water/Liquid spillage on charging pad, dry out the pad surface area properly & clean the ECU surface area by removing Anti-skid mat. Do not charge the smart phone until surface is completely dry.
4. The smart phone may become hot while getting charged. Please be cautious about the high temperature while picking up the smartphone from the charging pad.
5. Wireless charger works on principle of magnetic induction, i.e. it converts electrical energy into magnetic energy to transfer energy from charging pad to phone. Please maintain safe distance from the charger most of the time as it may cause irritation to sensory organs or active implants if implemented in the body. Please consult medical specialist in case implant organ in the body of the user
6. Always turn ON the IGN while using this feature to avoid vehicle battery drain issue.
7. Always keep charging pad clean and dust free.
8. Vehicle AC may turn ON during wireless mobile charging for efficient use of this feature.

**Don'ts:**

1. Do not use metal smart phone covers as it would halt the wireless charging function. The wireless charging may not function properly when there is a heavy & thick accessory cover on the smart phone.

2. Do not place smart phone up-side down on charging pad or do not miss aligned mobile phone on charging pad in such case smartphone charging will not happen.
3. Do not keep any metal objects like coins, smart keys, electronic cards e.g. credit card, debit card, smartcard from the charging pad as it may disrupt the charging process and/or may damage the card.
4. Do not keep any liquid (e.g. water, cold drink, and sanitizer), flammable object on antiskid mat.
5. Do not cover the wireless charger with a cloth or other object while charging. It may heat up the device and reduce the charging efficiency.
6. Do not disassemble, modify or remove the wireless charger & do not apply force or impact to the wireless.

**Information**

1. Small noise may be heard when a smart phone which does not support wireless charging or any foreign object is placed on the charging pad. This small sound is due to the vehicle discerning compatibility of the object placed on the charging pad. It does not affect the vehicle performance or the smartphone in any way.
2. For certain cellular phones with their own protection, the wireless charging speed may decrease and the wireless charging may stop.
3. When the interior temperature of the wireless charger rises above a set temperature, the wireless charging will cease to charging function. After the interior temperature drops below set threshold, the wireless charging function will resume.
4. When the mobile phone temperature rises above a set cut off threshold, the wireless charging will cease to charging function due to mobile phone stops demand power from wireless charger. After the mobile phone temperature drops below threshold, the wireless charging function will resume. Mobile temperature cut off threshold is much lower than WPC temperature cut off threshold.
5. When charging certain smart phones, the charging full message on head unit may not display when the smart phone is fully charged. It depends on smart phone manufacturer.
6. Smartphone of some manufacturers may display messages on weak current. This is due to particular characteristic of smartphone and does not imply a malfunction on wireless charger. Smaller smartphone users (ex. IPhone) may face intermittent charging issues due to its smaller size. (To avoid this, place the smartphone at center of the charging pad). Small mobile phones may not be able to charge in every position on charging pad.
7. The wireless charger may not operate correctly when the vehicle is near a TV tower, electric power plant, gas station,

large display, airport, or other facility that generates strong radio waves or electrical noise.

### WPC ECU in Standby Mode

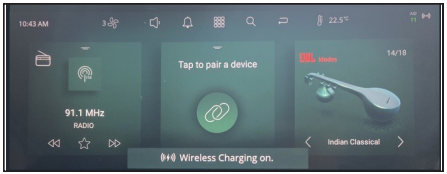
The infotainment system displays no warning message/ indication in this mode.

This mode represents that the charging function is halted and not functional. The charging function could halt because of below reasons like:

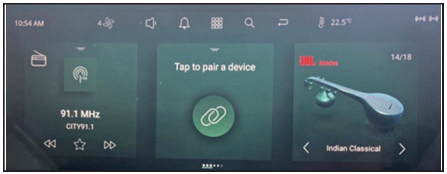
1. Phone is not properly aligned with the charging pad or not positioned correctly on pad wireless charger in standby mode
2. Phone is kept in upside down position wireless charger in standby mode
3. Phone is fully charged, and phone does not demand power wireless charger in standby mode

### Smart Phone Charging ON Mode

When the smart phone is placed correctly and the conditions are favorable to perform the function of wireless charging, the infotainment system shows following messages. After Popup, The charging symbol stays ON until the phone is fully charged.




*Charging Mode ON - Popup*




*Charging Mode ON – All Time Display*

### Metal Object Detection Mode

The charging gets interrupted/stopped due to metal object placed on the charging pad. The infotainment head unit displays following message. Check if there are any foreign objects between the smart phone and the charging pad, please clean if so. Smartphone shall be lifted for removing foreign objects and place it back on charging pad.

*Metal Objects*

**ⓘ NOTE**

- *Delay in restarting of mobile charging will be observed if foreign objects are removed without lifting smart phone.*
- *After removing the foreign objects, if smart phone do not resume charging immediately lift the phone and place on charging pad to start the charging.*
- *In case, Phone overheat, remove and keep it after sometime.*

### Smart Phone Battery is Full/ Charging Completed

The smart phone fully charged status is indicated on the infotainment display screen with following message. This Indication depends on phone profile whether it communicate the battery full charge status to WPC System.


*Charging Complete Indication - Popup*


*Charging Complete Indication - All Time Display*

### WPC System Error Mode

The error in the WPCF wireless power charger with FAN, system may cause the error message to get displayed on the infotainment screen.

Some of errors that can occur while charging which halt/interrupt charging can be covered with this indication are:

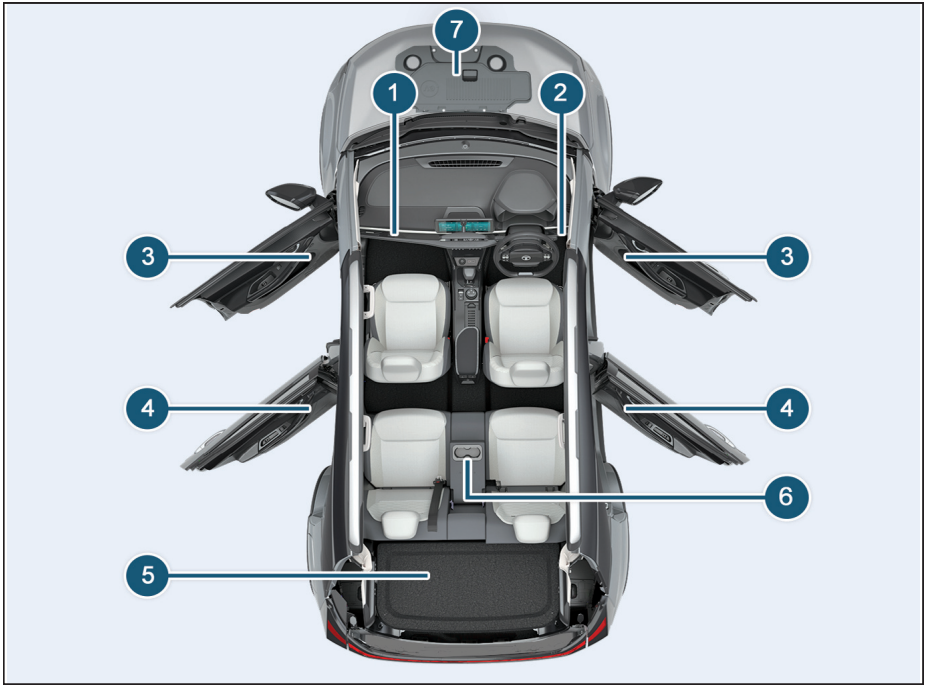
- WPCF internal fault which lead to permanent failure in charger functionality
- WPC Fan Stuck / Jam is detected
- Coil Failure
- High Temperature of WPC device (70 Degree C)
- Memory failure


*System Error Mode- Popup*

**ⓘ NOTE**

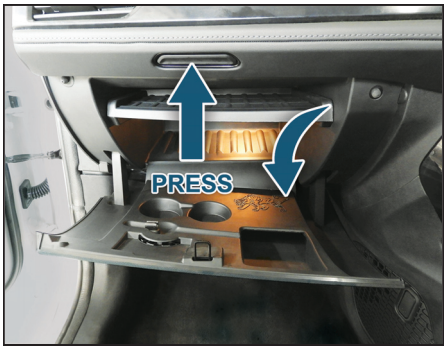
*If error message is pop up on head unit then avoid charging the smart phone and visit the nearby service station.*

## STORAGE COMPARTMENT




1. Glove box
2. Driver side coin box
3. Utility pockets on front doors
4. Utility pockets on rear doors
5. Luggage Compartment
6. Foldable arm rest/ Cup holder
7. Frunk (if equipped)

## GLOVE BOX




### Opening And Closing

**To open-** Press the knob and open the glove box flap.

**To close -** Lift glove box flap upward until it engages.

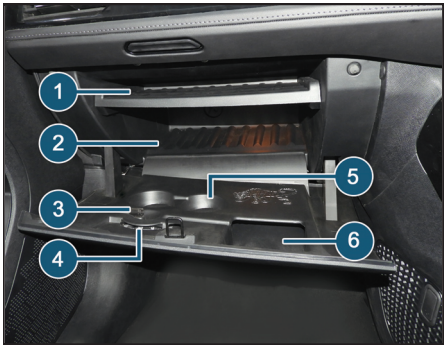
### Glove Box Illumination

The glove box lamp illuminates when the glove box flap is opened.

**ⓘ NOTE**

*Make sure that glove box flap is closed while driving.*

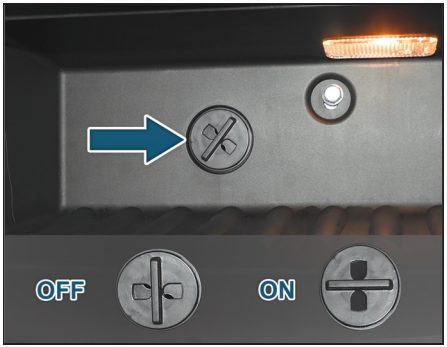
### Stowage Detail




Following items can be stored in glove box.

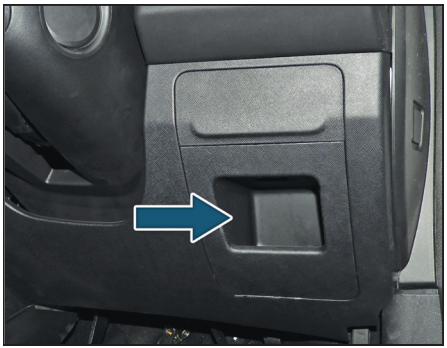
1. Owner's manual and other vehicle document
2. Glove box
3. Pen holder
4. Visiting card
5. Cup holder Receipts etc.
6. Receipts etc.

### Cooling Facility (if equipped)



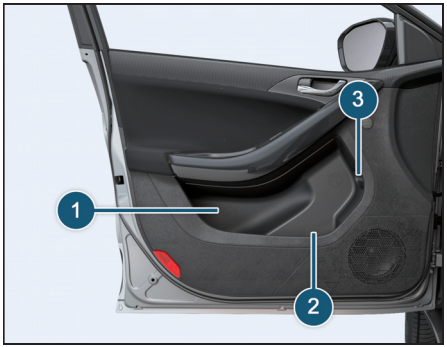

On selected models glove box is provided with a cooling facility. It cools the glove box only when the front A/C is ON. Shut OFF the vent by rotating the knob, whenever cooling is not required.

## DRIVER SIDE COIN BOX



Stowage is provided on RH side of steering wheel for Coin, mobile and wallet.

## UTILITY POCKETS on FRONT DOORS



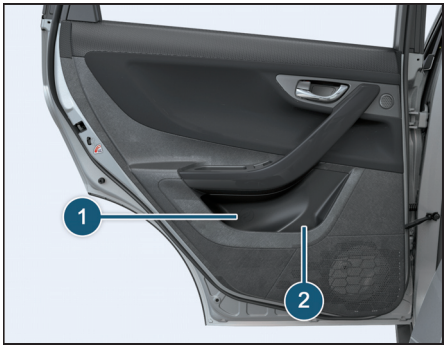

Utility pockets are provided on front doors and it can be used to keep following items.

1. Suitable water bottle
2. Magazine / paper / books
3. Umbrella

**ⓘ NOTE**

*Remove the water from umbrella and fold it properly before storing it in umbrella holder.*

## UTILITY POCKETS on REAR DOORS




Utility pockets are available on rear doors and it can be used to keep following items.

1. Suitable water bottle
2. Magazine / paper / books

## CENTER CONSOLE

### Stowage Below Arm Rest

Stowage compartment is provided below the foldable arm rest for keeping cell phones, iPod's, chargers etc.


Tambour door

Tambour door is provided on center console. To access Tambour door, lift arm rest (1). Slide the shutter (2) to open and close the stowage area.

### FOLDABLE ARM REST (if equipped)

A foldable arm rest has been provided in the rear seat. It also has two-cup holders, which can be accessed by opening the cover. When not required, fold the armrest back into the seat.

**ⓘ NOTE**

*Remove all items and cups before folding the cup holders. Use cups, containers, bottles of right size and which have lids. The content could otherwise spill.*

## LUGGAGE COMPARTMENT

Store the luggage in luggage compartment. You can keep suitcase, bags, etc.

**⚠ WARNING**

- Distribute the items of luggage as evenly as possible.
- Position heavy loads towards rear seat and low down in the trunk as possible.
- Do not allow occupants to travel in the luggage compartment.
- Do not place anything on luggage cover as it could obstruct driver's rear view. Also in case of an accident or sudden braking, it could cause an injury to occupants.

### Storage Below Luggage Carpet

Store the suitable luggage below the luggage carpet in luggage compartment. It can be used to keep small items.

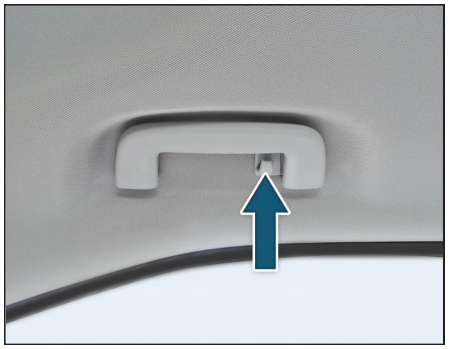
**ⓘ NOTE**

*TATA MOTORS does not recommend use of any floor mats below driver foot, from occupant safety point of view. If floor mats are used by end user, for different reasons, they need to be secured in place with the provided floor carpet clips. This is recommended, as in normal driving conditions, floor mats may slip forward and interfere with pedals.*

## HOOKS (if equipped)

### Coat Hook

Coat hangers are provided for rear passenger on both grab handles.



**ⓘ NOTE**

- *The coat hook is not designed to carry heavy objects or luggage items.*
- *Do not hang hard, sharp-edged or fragile objects on the coat hook.*

### Hook For Purse Holder

Hooks for holding purse are provided on both B pillar.

### Collapsible Hook

Collapsible hook is provided for hanging small carry bags etc. Load up to 2 kg is permissible.

**ⓘ NOTE**

*Do not use these hooks for securing luggage like using nets etc. in the boot.*

### Carrier Hook In Luggage Compartment

Carrier hook is provided for hanging small carry bags etc. Load up to 3 kg is permissible.

**ⓘ NOTE**

*Do not use these hooks for securing luggage like using nets etc.*

## LUGGAGE COMPARTMENT COVER

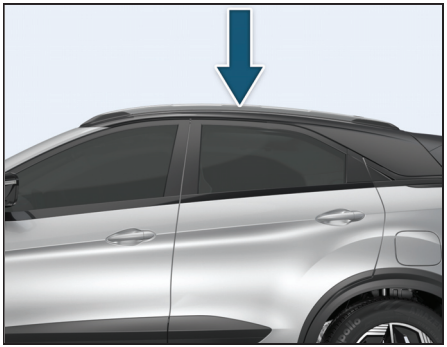
Luggage cover is designed only for hiding the luggage compartment.

**ⓘ NOTE**

*Do not place anything on luggage cover as it could obstruct driver's rear view. Also in case of an accident or sudden braking, it may cause an injury to the occupants.*

## ROOF RAIL

### Aesthetic Roof Rail



**ⓘ NOTE**

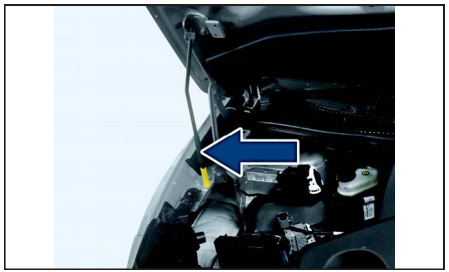
*Do not apply load or mount roof rack on roof rails.*

## FRUNK (if equipped)

Frunk is an extra storage provided in your vehicle under bonnet. . Load up to 6 kg is permissible.

### Opening the Frunk

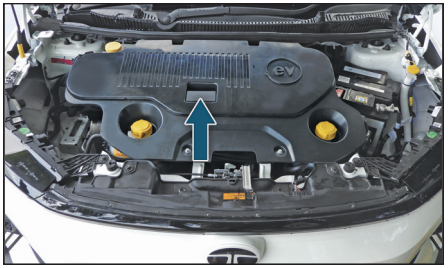
Open the bonnet and lock with stayrod.



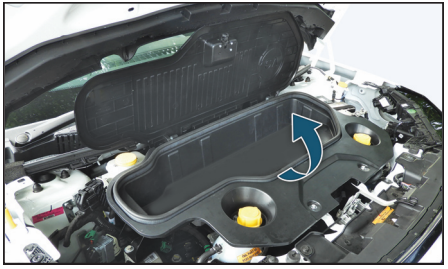
**ⓘ NOTE**

*Before opening the frunk, please ensure that the bonnet is fully open and locked with stay bar.*

Press the opening knob provided on frunk cover.



Open it fully and it shall remain open.



**Closing the Frunk**

1. Before closing the frunk cover ensure that there are no obstructions to it.

2. Push down the frunk cover and gently press it until it latches against the frunk latch.

**⚠ CAUTION**

- Do not overload the frunk, it may get damaged.
- Do not store fragile objects in the frunk.
- Do not store water/any liquid in the frunk, vehicle driving system may get damaged.
- Always ensure to keep the frunk cover closed while driving as stored items might come out of frunk/ may get damaged.
- Do not force press the frunk cover or place heavy objects on it, it may get damaged.

**⚠ WARNING**

- Never place/keep animals, baby, toddlers etc. inside/outside the frunk, it can cause serious injury.
- Never try to enter inside frunk, it can cause serious injury.
- Do not store flammable/explosive items in frunk as it may catch fire if vehicle is exposed to high temperatures for long duration.

## EMERGENCY EQUIPMENT

You should be familiar with the location of the emergency equipment provided in the vehicle and how to use it.

Do a check of this equipment periodically and make sure that they are in proper working condition and stowed at their locations.

### First Aid Kit

The first aid kit is kept inside the glove box compartment.

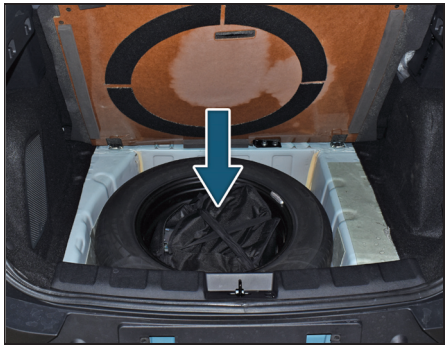
The kit contains items that can be used in case of minor injuries only.

**ⓘ NOTE**

*Examine contents of the first aid kit periodically and replenish consumed or expired items.*

### Tool Kit, Tow Hook, Jack And Spare Wheel (if equipped)

Following parts are provided in the Bag as a Toolkit and kept in the Spare wheel.



- Tow hook
- Wheel Spanner
- Jack Handle
- Jack

**ⓘ NOTE**

*The jack should be used only to change wheels. It is important to read the instructions in this section before attempting to use the jack.*

### Advance Warning Triangle

An advance warning triangle is kept in the luggage compartment. Use advance warning triangle to warn the approaching traffic in case of vehicle break-down or during emergency, where your vehicle could become a potential traffic hazard.

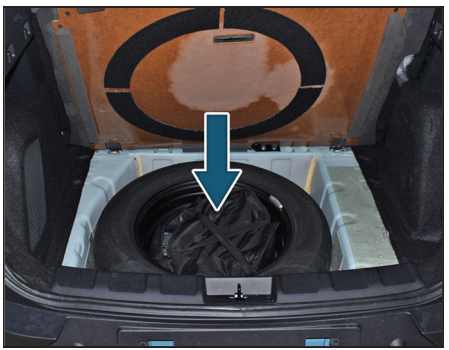
When you press the hazard warning switch, all turn signal lamps will start to blink. Keep the warning triangle at an approximate distance of 50-150 m behind your vehicle in the same lane of traffic. The reflecting side of the triangle should face the oncoming traffic and it should be free from any obstacles. Remove the advance warning triangle carefully from the bag and assemble. Refer instructions given on the bag.

**ⓘ NOTE**

*After using the warning triangle tie it firmly and keep it inside the bag to avoid rattling noise.*

### SPARE WHEEL REMOVAL PROCESS (if equipped)

- To access the spare wheel, lift the carpet up.
- After lifting, hold the carpet to access the spare wheel.
- Remove the Toolkit bag.



- To remove the spare wheel, unscrew and remove the retaining bolt.

## IN CASE OF FLAT TYRE

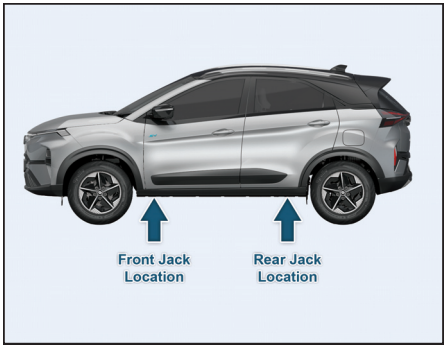
- Reduce vehicle speed gradually, Avoid sudden steering movement or braking.
- Pay attention to the traffic conditions as you do so.
- Switch on the hazard warning lamps.
- Stop the vehicle on solid, non-slippery and level ground, as far away as possible from traffic.
- Use the Jack on level, hard ground. Avoid changing the wheel on uphill and downhill slopes. Chocks the wheels, if the deflated wheel needs to be changed on slope / ghat area.
- If possible, bring the front wheels into the straight-ahead position.
- Secure the vehicle against rolling away.
- Set the parking brake firmly and shift in to “R” (Reverse) gear on level ground and while vehicle is in downhill position.
- When the vehicle is in uphill position, shift the gear in first gear.
- Switch off the IGN.
- Keep advance warning triangle at a suitable distance behind the vehicle as an indication of breakdown.
- Close all the doors.

**⚠ WARNING**

If you drive with a flat tyre, there is a risk of the following hazards:

- A flat tyre affects the ability to steer or brake the vehicle.
- You could lose control of the vehicle.
- Continued driving with a flat tyre will permanently damage the tyre and cause excessive heat buildup and possibly a fire. There is a risk of an accident.

### Jack Up Point Location On Vehicle




*Jack point and location on vehicle*

The jacking points ▼ are indicated on sill cover of the vehicle (Refer jacking point location).

**ⓘ NOTE**

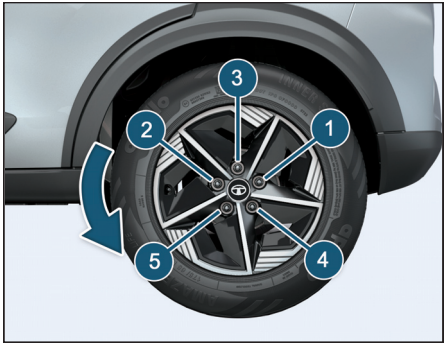
*The above image is only for reference.*

**⚠ WARNING**

If you do not position the jack correctly at the appropriate jacking point of the vehicle, the jack could tip over with the vehicle raised. There is a risk of injury. Also jack can be damaged.

### Changing Flat Tyre

Loosen the nuts (as indicated) on the wheel in diagonal sequence. Do not unscrew the nuts completely before raising the vehicle using the jack.




*Wheel Nut Removal*

**ⓘ NOTE**

- *The jack is designed only to raise and hold the vehicle for a short time while a wheel is being changed. It is not suited for performing maintenance work under the vehicle.*
- *Use the jack on level, hard ground. Avoid changing the wheel on uphill and downhill slopes. Chock the wheels, if the deflated wheel needs to be changed on slope / ghat area.*
- *Before raising the vehicle, secure it from rolling away by applying the parking brake.*
- *Do not use wooden blocks or similar objects as a jack underlay.*
- *Do not place your hands and feet or lie under the raised vehicle when it is supported by a jack.*
- *Do not start the vehicle when the vehicle is supported by the jack and never allow passengers to remain in the vehicle.*
-

- *Do not open or close a door or the tailgate when the vehicle is raised.*

Assemble the Jack handle and wheel spanner (as shown in fig.)

Position the jack vertically and raise it by turning the jack handle clockwise until the jack sits completely on the specified point and the base of the jack lies evenly on the ground.

**ⓘ NOTE**

*The above image is only for reference. It may defer with actual vehicle.*

Continue to raise the jack slowly and smoothly until the tyre clears the ground. Do not raise the vehicle more than necessary.

Remove wheel nuts with the help of wheel spanner and take out flat tyre.

**ⓘ NOTE**

*Do not place wheel nuts in sand or on a dirty surface. Do not apply oil or grease on it.*

Roll the spare wheel into position and align the holes in the wheel studs.

Tighten each nut by hand until the wheel is securely seated on the hub.

Lower the jack completely then tighten the wheel nuts diagonally in opposite sequence one by one using wheel spanner.

Press fit the wheel cover back (if equipped).

Restore all the tools and jack at their respective locations.

Place the flat tyre at spare wheel location

**ⓘ NOTE**

- *Do a check and correct the tyre pressure and wheel nuts tightness of the changed wheel at nearest Authorised service Centre. Get the flat tyre repaired at the earliest*
- *Do not jack the vehicle under rear axle.*

## PUNCTURE REPAIR KIT (if equipped)

### Introduction

**⚠ WARNING**

Compliance to below instructions is vital to ensure vehicle safety and personal safety. Non-compliance may result in serious injury or death. Damage to tire will affect vehicle handling and lead to loss of overall vehicle control.

- The tire puncture repair kit seals most tire punctures to restore temporary mobility.
- Recommended to use only for passenger car ground tubeless tires only and vehicle tire inflation pressure up to 300kPa (3 bar /43psi).
- The system consists of a compressor and a sealant, and serves to effectively and conveniently seal punctures in car tires caused, for example, by nails or similar foreign objects with a diameter of up to ¼″ (6 mm).
- Depending on the type and extent of tire damage, some tires can only be partially sealed or not sealed at all.
- Loss of tire pressure can affect vehicle handling and vehicle control.
- Drive with caution and avoid making sudden steering or driving maneuvers, especially if the vehicle is heavily loaded or you are towing a trailer.
- The system will provide you with an emergency temporary repair, enabling you to continue your journey to the next vehicle or tire dealer, or to drive a maximum distance of 200 Kms.
- Do not exceed a maximum speed of 80 km/h.
- Keep the Puncture repair Kit out of the reach of children.
- If used for other than its intended purpose, the tire puncture repair Kit may cause severe accident or injury due to the fact that compressed air can act as an explosive or propellant.
- Park your vehicle at the roadside so that you do not obstruct the flow of traffic and you are able to use the Puncture repair Kit without being in danger.
- Engage the hand brake, even if you have parked on a level road, to ensure that the vehicle will not move.
- Do not attempt to remove foreign objects like nails or screws penetrating the tire leave them as it is.
- Always ensure the vehicle is running during the tire puncture repair kit is in use, but not if the vehicle is in an enclosed or poorly ventilated area.
- Never leave the tire puncture repair kit unattended while in use.
- Do not keep the compressor operating for more than 10 minutes otherwise there is a risk of it overheating.
- Replace the sealant bottle with a new one before the expiry date is reached (see bottle label). In case that the sealant is expired the functionality cannot be fully guaranteed. Only use original tire puncture repair kit bottles which are pressure resistant.

**⚠ WARNING**

Do not use the Puncture repair Kit if the tire has already been damaged as a result of being driven underinflated. Do not try to seal damage other than that located within the visible tread of the tire. Do not try to seal damage to the tire's sidewall.

**⚠ WARNING**

TPMS/iTPMS (if equipped) functionality to be checked by TATA MOTORS EV Authorised Service Centre , if any error occurs due to the use of tire puncture repair kit.

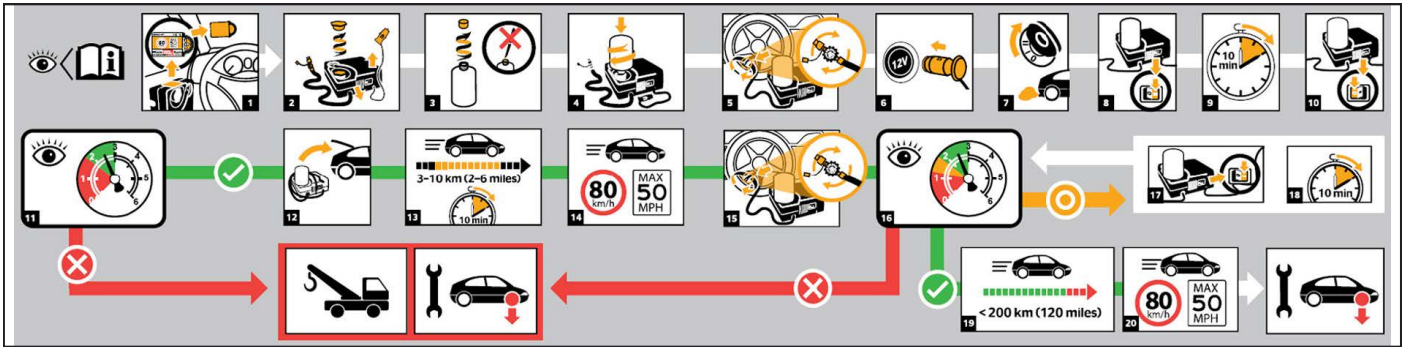
**Location In Vehicle**

*In Luggage compartment*

**Puncture Repair Kit Removal Process**

Remove the two Velcro as shown in figure and take out the puncture repair kit.

## Steps


1
2
3
4
5
6
12V
7
8
9
10 min
10
11
12
3–10 km (2–6 miles)
10 min
13
80 km/h
MAX 50 MPH
14
15
16
17
18
10 min
< 200 km (120 miles)
19
80 km/h
MAX 50 MPH
20

### How to Proceed In The Event of A Tire Puncture

First pump the tire sealant and air into the tire (see Step 1).Immediately there-after, drive a short distance (3-10 km) in order to distribute the sealant in the tire. After that check the tire pressure and pump more air into the tire if necessary (see Step 2). Then you can proceed to drive with caution for a maximum distance of 200 kms and at a maximum speed of 80 km/h.

### Step 1

1. Take out the hose and power plug with cable out of the tyre puncture repair kit casing. Remove the white cap of T type connector of Sealant Bottle.
2. Connect the hose pipe of the compressor with T type connector of sealant bottle. Ensure it is tightly Fitted.
3. Avoid skin contact with the sealant which contains natural rubber latex. Do not open pressure “air release” valve. Use enclosed protective gloves.
4. Install sealant Bottle by rotating clockwise firmly against the bottle holding grooves on the compressor. Remove the white cap of the hose pipe of the sealant bottle.
5. Insert power plug into the 12 volt power socket connection.
6. Start the vehicle in idling (only if the vehicle is outdoors or in a well ventilated area).
7. Press compressor switch to ON Important: When pumping in the sealant through the tyre valve, the pressure may rise up to 500 KPa (5 bar. 73 psi) but will drop again after about 30 seconds
8. Inflate the tyre to an inflation pressure of minimum 180kPa, (1.8 bar/26 psi) and a maximum of 300kPa (3 bar/43 psi).
9. Remove the sealant bottle from the compressor grooves & tight the white caps on the hose pipe of the sealant bottle as well as T -type connector of the sealant bottle. This avoids unexpected leakage of sealant residue and Lock it.
10. Make sure the puncture repair kit stored safely, but it’s still easily accessible, in the vehicle.
11. The compressor will be needed again when you check the tyre pressure.

**⚠ WARNING**

Ensure pump should not be ON for more than 10 min as it may heat up and stop working.

**⚠ WARNING**

Check the sidewall of the tyre prior to inflation. If there are any cracks, bumps or similar damage, do not attempt to inflate the tyre. Do not stand directly beside the tyre while the compressor is pumping. Watch the sidewall of the tyre. If any cracks, bumps or similar damage appear, turn off the compressor and let the air out by means of the pressure "air release" valve. In this case, do not continue to use the tyre.

**ⓘ NOTE**

*When pumping in the sealant through the tyre valve, the pressure may rise up to 500 kPa (5 bar/73 psi) but will drop again after about 30 seconds.*

**⚠ WARNING**

Need to drain fluid from tyre before repair.

**Step 2**

1. Once a tyre inflation pressure of at least 180kPa (1.8 bar/26 psi) has been reached. Switch the compressor to "0" in order to read the actual tyre pressure from the pressure gauge.
2. Pull the power plug from the 12 volt power socket connection.
3. Slowly unscrew the hose from the tyre valve (sealant residues may escape from the hose) and put the protective cap back onto the hose.
4. Leave the bottle in the holder. This avoids unexpected leakage of sealant residue.
5. Make sure the Puncture repair Kit, the cap of the bottle and the orange cap are stored safely, but are still easily accessible, in the vehicle.
6. The kit will be needed again when you check the tyre pressure.
7. Start and drive for about 3-10 km so that the sealant can seal the damaged area. Do not drive for more than 10 min and not faster than 80 km/h.
8. Stop the vehicle after driving about 3-10 km. Check and where necessary, adjust the pressure of the damaged tyre. Remove the protective cap from the end of the hose. Screw the hose firmly onto the valve of the damaged tyre. Read the tyre pressure from the pressure gauge.
9. If the pressure of the sealant filled tyre is 130kPa (1.3 bar/19 psi) or more, it must now be adjusted to the pressure specified for your vehicle (Refer tyre pressure sticker pasted on driver door side).
10. Deflate the tyre to the specified pressure using the pressure "air release" valve. Rest of the remaining sealant in the hose might leak out when opening pressure "air release" valve or taking off the protective cap of the hose. Please use protective glove for safety purpose.
11. Once you have inflated the tyre to its correct tyre pressure, switch off the compressor, pull the plug out of the socket, unscrew the hose, fasten the

tyre valve cap and put back on the protective cap of the hose.

12. Leave the bottle in the holder and store the Puncture repair Kit away safely in the vehicle trunk
13. Drive to the nearest workshop to get the damaged tyre repaired and if the tyre repair is not possible it should be removed from the car. Before the tyre is removed from the rim, inform your tyre dealer that the tyre contains sealant.

**⚠ WARNING**

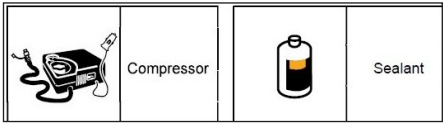
If heavy vibrations, unsteady steering behavior or noises should occur while driving, reduce your speed and drive with caution to a place where it is safe for you to stop the vehicle. Recheck the tyre and its pressure. If the tyre pressure is less than 130kPa (1.3bar, 19 psi) or if there are any visible cracks, bumps or similar damage on the side wall, do not continue to use the tyre.

**⚠ WARNING**

After using the sealant you may drive no faster than 80 km/h and the damaged tyre must be replaced as quickly as possible (within a maximum driving distance of 200 km.

New sealant and replacement parts can be purchased from your authorized repair shop or dealer. Sealant bottles can be disposed with house-hold waste.

**For Normal Tire - Checking / Inflation Of Tire Pressure Follow The Below Process**




- Remove the puncture repair kit from the luggage area.
- Insert the power plug into the 12V power socket connection and start the vehicle in idling.
- Remove the plug from the tire valve and screw the inflator hose into the tire valve
- Press the switch to “I” present on the inflator and the motor will start to inflate.
- As specified pressure is achieved then switch to “0” present on the inflator and compressor will turn off.
- Check the tire pressure again. If tire pressure is too high, deflate the tire to the specified pressure using the pressure “air release” valve.
- Remove the inflator hose from the tire valve and plug the tire valve safely.
- Remove the power plug 12V from the power socket and assemble it properly and keep the unit in luggage space again for next use.

**ⓘ NOTE**

*Remember that emergency road-side tire repair kits only provide temporary mobility. You should consult a tire specialist for advice.*

**ⓘ NOTE**

*New sealant and replacement parts can be purchased from your authorized repair shop or dealer. Sealant bottles can be disposed with household waste.*

## TOWING

### Guidelines (Do's & Don'ts)

When towing a break down vehicle, certain precautions and procedures must be taken to prevent damage to the vehicle and/or components. Failure to use standard towing precautionary measures when lifting or towing a break down vehicle could result in an unsafe operating condition.

To correctly tow and prevent accidental damage to your vehicle, take help of a TATA MOTORS EV Authorised Service Centre or a commercial tow-truck service.

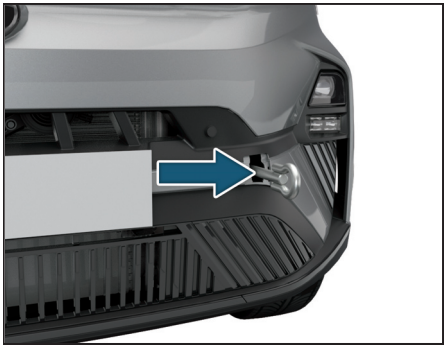
**ⓘ NOTE**

*Make sure that the parking brake is released; vehicle is in neutral and steering wheel is unlocked. The power steering functions only when vehicle is running. Hence, during towing the steering efforts will be more.*

**⚠ WARNING**

- Do not get under your vehicle after it has been lifted by a tow truck.
- For towing a vehicle, the best way is to use a wrecker. Alternatively use a rigid tow bar.
- Switch 'ON' the hazard warning indicators of both the vehicles to warn other road users.
- Limit the speed to 20-30 kmph.
- In case of brake failure, use the parking brake to control the vehicle.
- Fasten the tow rope or tow bar at the towing eyes. Otherwise, the vehicle could be damaged.
- When towing, pull away slowly and smoothly. If the tractive power is too high, the vehicles could be damaged.

## Tow Hook Fitment



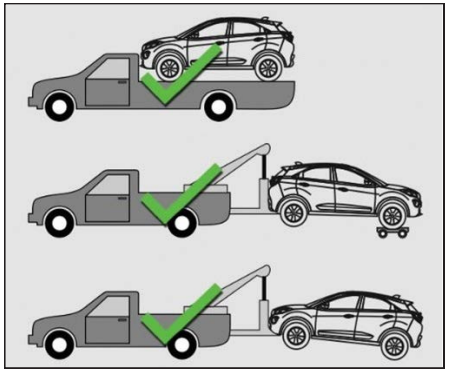
- Open the tailgate and remove tow hook from the tool kit.
- Open the tow hook cover provided on the front bumper by pressing it at the bottom part and simultaneously pulling it at the top (as shown in fig).
- Screw in and tighten the tow hook in clockwise direction.
- After towing, remove the towing hook and press fit the cover properly.
- Place the towing hook in the vehicle tool kit.

## Recommended Towing

In case of break down, we recommend that your vehicle be towed with the driving wheels off the ground or place the vehicle on a flatbed truck as shown.

**⚠ WARNING**

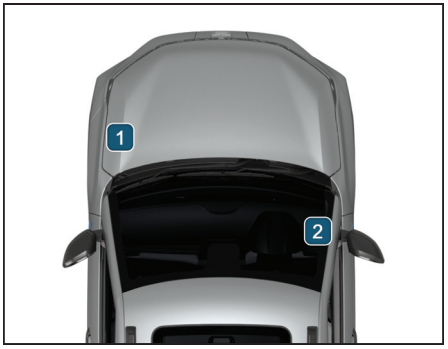
- Do not tow your vehicle with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious damage to the transmission.
- When towing with the rear wheels on the ground or on towing dollies, place the ignition switch in the 'ACC' or 'ON' position, and secure the steering wheel in the straight-ahead position with a rope or similar device.



## FUSES

Your vehicle has fuse boxes at two locations.

The vehicles electrical circuits have fuses to protect the wiring from short circuits or sustained overload.



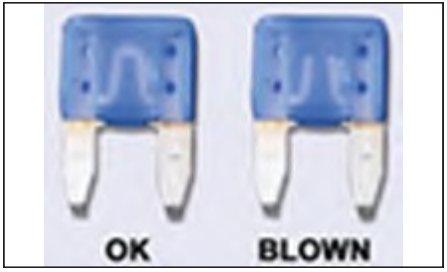

1. Motor Compartment Fuse Box.
2. Cabin Compartment Fuse Box.

### Checking And Replacing Fuses

If any electrical unit in your vehicle is not functioning, check the fuses first.

Please follow the steps below that will guide you to check and replace them.

- Apply parking brake
- Switch off all electrical accessories.
- Turn the ignition key to the 'LOCK' position.
- In the fuse box, identify the defective fuse from its melted wire.




- Remove the defective fuse by "fuse puller". The fuse puller and spare fuses are provided in the motor compartment fuse box.
- Defective fuses must be replaced with fuses of same rating, which you can recognize by color and value.

**ⓘ NOTE**

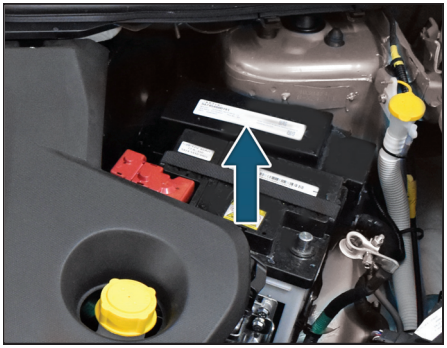
*Always make sure that the spare fuses are added.*

- Make sure that all other fuses are pressed firmly in position.
- If a newly inserted fuse also blows, have the cause traced and rectified at nearest TATA MOTORS EV Authorised Service Centre immediately.

**⚠ WARNING**

- If you manipulate or bridge a faulty fuse or if you replace it with a fuse with higher amperage, the electric cables could be overloaded. This could result in a fire. There is a risk of an accident and injury.
- Always replace faulty fuses with the specified new fuses having the correct amperage.

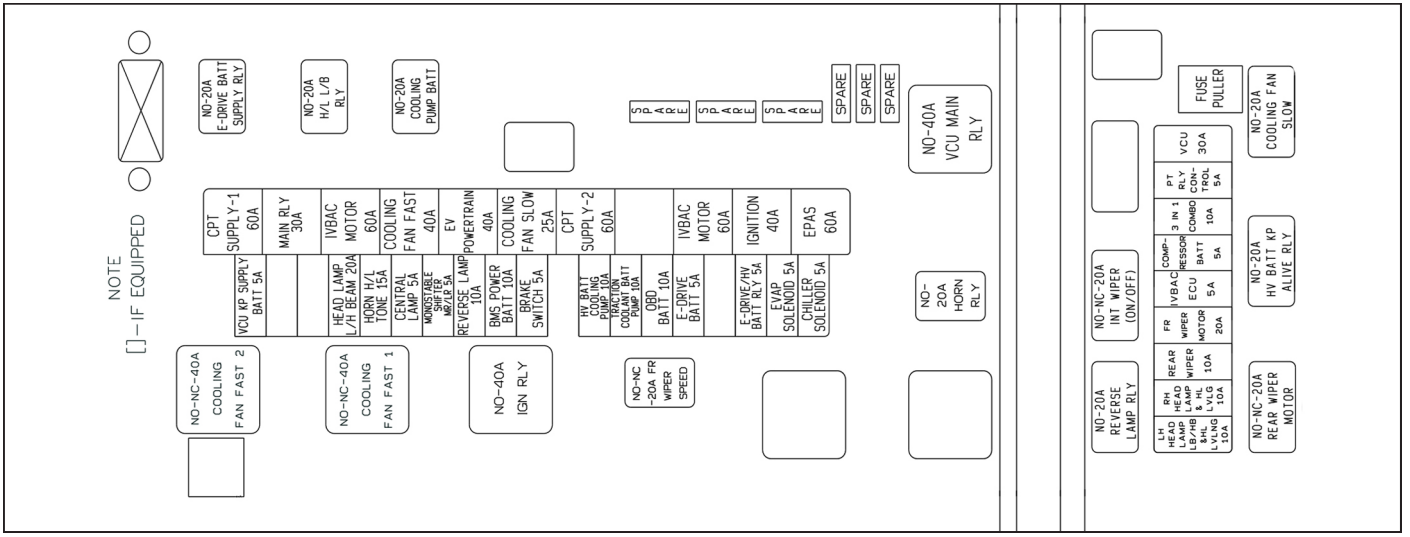
## Motor Compartment Fuse Box



**ⓘ NOTE**

*The fuse box layout is for reference purpose only. Please refer the sticker provided inside the fuse box cover.*

**Fuses - Motor Compartment**




Note: Please refer fuse box sticker on vehicle for more clarity.

| Cabin Compartment Fuse Box Details | | | |
|---|---|---|---|
| **Fuse No.** | **Ratings (*Amp*)** | **Fuse Type** | **Description** |
| EF1 | 60A | JCASE | SUPPLY CABIN FUSE BOX-1 |
| EF2 | 40A | JCASE | MAIN RELAY |
| EF3 | 60A | JCASE | IVBAC MOTORS |
| EF4 | 40A | JCASE | COOLING FAN FAST |
| EF5 | 40A | JCASE | EV POWERTRAIN |
| EF6 | 25A | JCASE | COOLING FAN SLOW |
| EF7 | 60A | JCASE | SUPPLY CABIN FUSE BOX-2 |
| EF8 | - | JCASE | SPARE |
| EF9 | 60A | JCASE | IVBAC MOTOR |
| EF10 | 40A | JCASE | IGN LOADS |
| EF11 | 60A | JCASE | MANDO EPAS |
| EF12 | 5A | MINI | VCU KP SUPPLY_BATT |
| EF13 | - | MINI | SPARE |
| EF14 | - | MINI | SPARE |
| EF15 | 20A | MINI | HEAD LAMP LOW |
| EF16 | 15A | MINI | HORN |
| EF17 | 5A | MINI | CPL |
| EF18 | 5A | MINI | MONOSTABLE SHIFTER |
| EF19 | 10A | MINI | REVERSE LAMP |
| EF20 | 10A | MINI | BMS POWER BATT |

| Cabin Compartment Fuse Box Details | | | |
|---|---|---|---|
| **Fuse No.** | **Ratings (*Amp*)** | **Fuse Type** | **Description** |
| EF21 | 5A | MINI | BRAKE SW |
| EF22 | 10A | MINI | HV BATTERY COLLING PUMP_BATT |
| EF23 | 10A | MINI | TRACTION COOLANT PUMP_BATT |
| EF24 | 10A | MINI | OBD_BATT |
| EF25 | 5A | MINI | SPARE |
| EF26 | 5A | MINI | OBD_BATT (FOR PROTO ONLY) |
| EF27 | 5A | MINI | E-DRIVE/HV BATT RELAY |
| EF28 | 5A | MINI | EVAPORATOR SOLENOID |
| EF29 | 30A | MINI | CHILLER SOENOID |
| EF38 | 20A | MINI | VCU RLY |
| EF40 | 10A | MINI | 3 IN 1 COMBO |
| EF41 | 5A | MINI | COMPRESSOR _BATT |
| EF42 | 5A | MINI | IVBAC ECU |
| EF43 | 20A | MINI | FRONT WIPER MOTOR |
| EF44 | 10A | MINI | REAR WIPER MOTOR |
| EF45 | 10A | MINI | RH Head lamp LB & HL Levelling |
| EF46 | 10A | MINI | LH Head lamp LB & HL Levelling |

| Relay No. | Function | Fuse Rating |
|---|---|---|
| R1 | SPARE | - |
| R2 | SPARE | - |
| R3 | HV BATT KP ALIVE RELAY | 20A |
| R4 | VCU MAIN RELAY | 40A |
| R5 | COOLING FAN SLOW | 20A |
| R6 | COOLING FAN FAST1 | 40A |
| R7 | INT WIPE (ON/OFF) | 20A |
| R8 | COOLING PUMP_BATT | 20A |
| R9 | SPARE | - |
| R10 | COOLING FAN FAST2 | 40A |
| R11 | SPARE | - |
| R12 | E-DRIVE BATTERY SUPPLY RLY | 20A |
| R13 | HEAD LAMP LOW & HIGH BEAM | 20A |
| R14 | SPARE | - |
| R15 | REAR WIPER MOTORREAR WIPER MOTOR | 20A |
| R16 | HORN | 20A |
| R17 | IGNITION | 40A |
| R18 | FRONT WIPER MOTOR SPEED | 20A |
| R19 | REVERSE LAMP RELAY | 20A |

### Accident Disconnect Fuse

**In case of an accident, to disconnect the high voltage battery from the rest of the high voltage electrical components, remove the cover of the fuse and pull out the accident disconnect fuse. The fuse can be identified with a yellow label**.

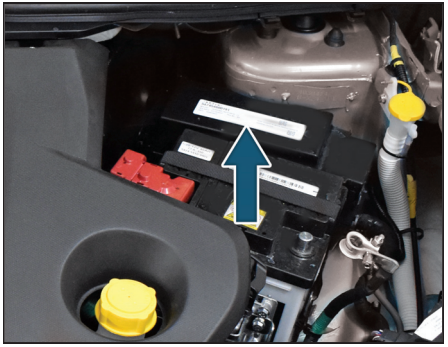
**⚠ WARNING**

In case of Accident/Emergency/Crash, the rescuer or first emergency responder may be prone to Electric Hazard.

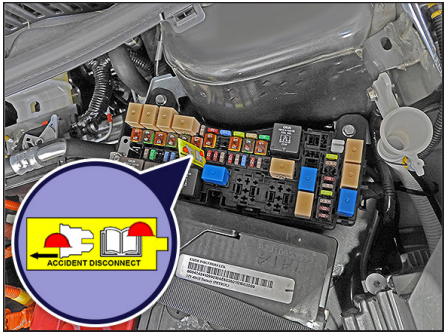
To avoid the Electric hazard, the Power supply to Battery Management System must be disconnected.

Follow the steps below to disconnect the power supply from the battery management system:

- Open the fuse box cover located under the bonnet behind the 12V battery without touching any other High Voltage Components.



- Remove the Accident Disconnect 10A fuse. The fuse puller and spare fuses are provided in the motor compartment fuse box
- The 10A fuse labelled in yellow color as shown in image.




**⚠ WARNING**

If Fuse box cover is removed for any reason, it should be refitted properly at its original position.

**ⓘ NOTE**

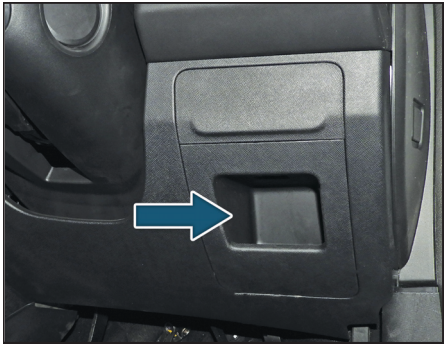
*The fuse box layout is for reference purpose only. Please refer the sticker provided inside the fuse box cover.*

## Cabin Compartment Fuse Box

### Cover Removal Procedure

Fuse box is located inside the cover below steering column. To access the fuse box, remove cover as per procedure given below.

1. Fuse box cover is mounted on dash board with the help of lugs at the top and bottom of the cover from inside.

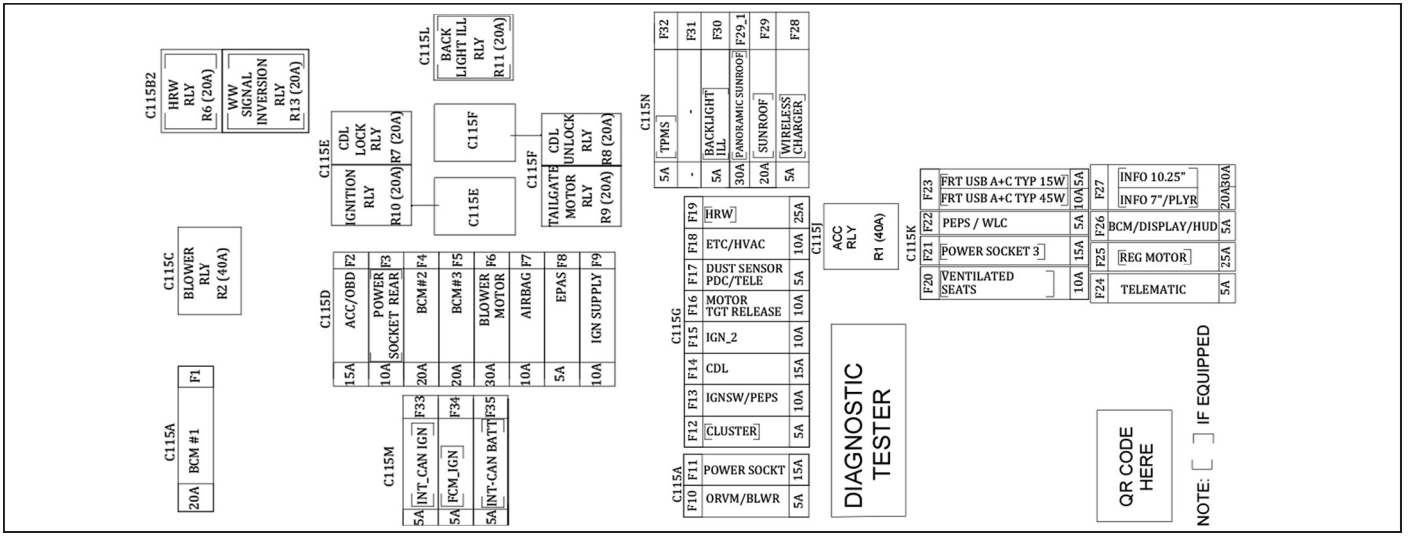


2. To remove the cover, gently pull the cover from upper side that the lugs get disengaged.

### Re-fitment Procedure

Align bottom lugs and push upper part with respective slots on dashboard and press the cover firmly.

**Fuses - Cabin Compartment**




Note: Please refer fuse box sticker on vehicle for more clarity.

| Cabin Compartment Fuse Box Details | | | |
|---|---|---|---|
| **Fuse No** | **Ratings (*Amp*)** | **Fuse Type** | **Description** |
| F1 | 20A | FAST BLOW | BCM # 1 |
| F2 | 15A | FAST BLOW | ACC/OBD BATT |
| F3 | 10A | FAST BLOW | REAR USB TYPE C |
| F4 | 20A | FAST BLOW | BCM # 2 |
| F5 | 20A | FAST BLOW | BCM # 3 |
| F6 | 30A | FAST BLOW | BLOWER |
| F7 | 10A | FAST BLOW | RESTRAINTS CONTROL MODULE AIRBAG |
| F8 | 5A | FAST BLOW | EPAS |
| F9 | 10A | FAST BLOW | IGNITION |
| F10 | 5A | FAST BLOW | MIRROR ADJUSTMENT MOTOR |
| F11 | 15A | FAST BLOW | POWER SOCKET 1 |
| F12 | 5A | FAST BLOW | INSTRUMENTATION CLUSTER |
| F13 | 10A | FAST BLOW | PEPS ECU |
| F14 | 15A | FAST BLOW | CDL ACTUATOR |
| F15 | 10A | FAST BLOW | IGNITION 2 |
| F16 | 10A | FAST BLOW | TAILGATE RELEASE MOTOR |
| F17 | 5A | FAST BLOW | PDC , TELEMATICS & DUST SENSOR |
| F18 | 10A | FAST BLOW | AUTOMATIC CONTROL HVAC ECU |

| Cabin Compartment Fuse Box Details | | | |
|---|---|---|---|
| **Fuse No** | **Ratings (*Amp*)** | **Fuse Type** | **Description** |
| F19 | 25A | FAST BLOW | HRW (HEATED REAR WINDOW) |
| F20 | 10A | FAST BLOW | VENTILATED SEATS |
| F21 | 15A | FAST BLOW | POWER SOCKET 3 |
| F22 | 5A | FAST BLOW | PEPS ECU, WIRELESS CHARGER |
| F23 | 10A<br>5A<br>5A | FAST BLOW | FAST USB CHARGER A+C 45W<br>FAST USB CHARGER A+C 15W<br>AFTER MARKET CONNECTION |
| F24 | 5A | FAST BLOW | TELEMATICS |
| F25 | 25A | FAST BLOW | DRIVER REGULATOR MOTOR |
| F26 | 5A | FAST BLOW | BCM, INFOTAINMENT DISPLAY 10.25”, DISOCIATED DISPLAY |
| F27 | 20A | FAST BLOW | INFOTAINMENT CONTROL MODULE 7” , AFTER MARKET CONNECTION |
| F27A | 30A | FAST BLOW | INFOTAINMENT CONTROL MODULE 10.25” |
| F28 | 5A | FAST BLOW | WIRELESS CHARGER |
| F29 | 20A | FAST BLOW | SUNROOF |
| F29A | 30A | FAST BLOW | PANORAMIC SUNROOF |
| F30 | 5A | FAST BLOW | BACKLIGHT ILLUMINATION |
| F31 | - | - | SPARE |
| F32 | 5A | FAST BLOW | TPMS |

| Relay No. | Function | Fuse Rating |
|---|---|---|
| R1 | ACC RELAY | 40A |
| R2 | SPARE | 40A |
| R3 | SPARE | - |
| R4 | SPARE | - |
| R5 | SPARE | - |
| R6 | HEATED REAR WINDOW | 20A |
| R7 | CDL LOCK | 20A |
| R8 | CDL UNLOCK | 20A |
| R9 | TAILGATE RELEASE MOTOR | 20A |
| R10 | IGNITION RELAY | 20A |
| R11 | BACKLIGHT ILLUMINATION REGISTRATION PLATE | 20A |
| R12 | SPARE | - |
| R13 | WW SIGNAL INVERSION RELAY | 20A |
| R14 | SPARE | - |
| R15 | SPARE | - |
| R16 | HORN | - |
| R17 | SPARE | - |
| R18 | SPARE | - |

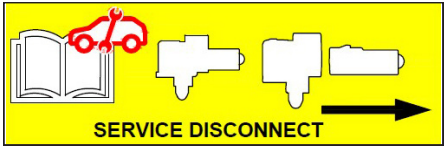
### Under Bonnet Low Voltage Service Disconnect

During the service of vehicle, the technician or service operator can be prone to electric shock with High Voltage.

So to avoid this electric shock hazard the high voltage should be disconnected before servicing the vehicle.

Below steps to be followed to isolate High voltage from vehicle and components:-

- Technician or service operator should locate the motor compartment which is located under the bonnet.
- Without touching any other high voltage components he should remove the LV MSD short link connector.
- LV MSD connector is connected with green color connector parked near to 3in1 combo unit over a bracket.
- LV MSD short link connector labeled with yellow color (As per picture).

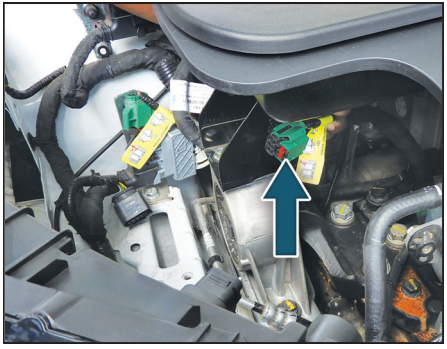



- After successfully completion of service LV MSD short link must be reconnected with green connector same as original condition.

### Under Bonnet High Voltage Service Disconnect

During the service of vehicle, the technician or service operator can be prone to electric shock with Low Voltage.

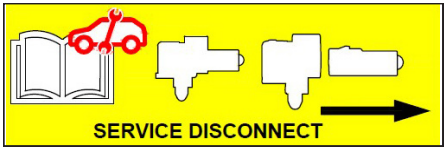
So to avoid this electric shock hazard the high voltage should be disconnected before servicing the vehicle.



Below steps to be followed to isolate High voltage from vehicle and components:-

- Technician or service operator should locate the motor compartment which is located under the bonnet.

- Without touching any other high voltage components he should remove the HV MSD short link connector.
- HV MSD connector is connected with green color connector parked near to 3in1 combo unit over a bracket.
- HV MSD short link connector labeled with yellow color (As per picture).




- After successfully completion of service HV MSD short link must be reconnected with green connector same as original condition.

**If An Accident Occurs…**

- If your vehicle is drivable, park your vehicle off the road; rotate the gear selector knob to “N” and apply the parking brake.
- If not drivable do not try to start the vehicle. Rotate the gear selector knob to N and apply the parking brake.
- Roll down the windows and open the door locks if possible. If the ‘Ready’ message does not come in the instrument cluster, do not try to switch ON the supply by pressing the Start/Stop button.
- If there is no electrical supply, at-least try to unlock single door manually.
- If the vehicle ‘Ready’ message flashes in the instrument cluster, press the Start/Stop button to turn off the supply, and ensure ‘Ready’ message goes off to verify the high-voltage system is disconnected.
- De-latch the bonnet from inside the cabin by pulling the lever to open it.
- If the lever is not reachable, do not spend time to de-latch the bonnet.
- Come out of the vehicle and move the smart key at least 2 meters away from the vehicle to avoid any accidental restart or activation of high voltage systems.
- Try to evacuate the occupants from inside of the vehicle.
- Secure vehicle by barricading it, without touching the vehicle.
- Inform the TATA MOTORS Roadside-Assistance immediately.
- Do not touch the vehicle. Keep a safe distance.

**⚠ WARNING**

- Do not touch electric wires that may become exposed from inside or outside the vehicle, high voltage electric wires (orange), connectors and any exposed electric components and devices. Doing so may result in electric shock and lead to injuries or even death.

- If you observe any coolant leaks and rupture in refrigerant lines, do not drive the vehicle and contact TATA MOTORS Roadside Assistance.
- If the vehicle switches off after an accident, come out of the vehicle immediately without touching any metal parts.
- Leaks or damage to the Lithium Iron Phosphate battery may result in a fire. If you discover them, contact emergency services immediately. Never touch the fluid leaked inside or outside the vehicle. If the fluid contacts with your skin or eyes, wash it off immediately with a large amount of water or saline solution and receive immediate medical attention to help avoid serious injury.
- If water enters inside the vehicle: If your vehicle is flooded or if water has soaked the carpets, you should not try to start the vehicle. Never touch the high voltage cables, connectors and package modules, because an electric shock may occur causing injury or death. (High voltage components are orange in colour)
- If a submersion in water occurs: Do not touch your vehicle, if the vehicle has been submerged in water. The high voltage battery may cause shock or may catch fire. Immediately contact the authorities and advise them of the condition of your vehicle and that an electric vehicle is involved.

If a small scale fire occurs, use a fire extinguisher (C, ABC, BC) that is meant for electrical fires. If it is impossible to extinguish the fire in the early stage, remain a safe distance from the vehicle and immediately call the authorities. Also, advise them that an electric vehicle is involved.

When approaching a high voltage vehicle in a situation of fire, rescue or recovery, follow the standard rule:

- Always assume the high-voltage system is live in the vehicle.
- Only High Voltage System trained personnel with necessary high voltage PPEs (hand gloves, electrical safety shoes, etc.,) should access and analyse the EV after all occupants are safely evacuated.

### Emergency Shut OFF System

When vehicle detects any fault in HV system, it activates the emergency shut OFF for safety purpose. Even if the gear knob is in Drive mode, the system may shut-OFF suddenly. In this case, contact the nearest TATA MOTORS EV Authorised Service Centre to rectify the issue.

### In Case Of Emergency

If the vehicle stalls at a crossroad or crossing, rotate the rotary knob to N (Neutral) position and then push the vehicle to a safe place

**If The Vehicle Stalls While Driving**

- Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- Turn on the hazard lamps.
- Try to start the vehicle again. If your vehicle will not start, contact TATA MOTORS EV Authorised Service Centre or seek other qualified assistance.
- Since this vehicle runs on electric power, it generates little sound. Be aware of your driving environment and drive safely.
- After you park the vehicle or while you are waiting at a traffic light, check whether there are kids or obstacles around the vehicle.
- Check if there is something behind the vehicle when driving in reverse. Pedestrians may not hear the sound of the vehicle.

## BULB SPECIFICATIONS

| Sn. | Description | Rating | Type | Qty. |
|---|---|---|---|---|
| 1 | REAR BOOT LAMP | 12V, 5W | W5W | 1 |
| 2 | GLOVE BOX LAMP | 12V, 5W | W5W | 1 |

## LUBRICANT SPECIFICATIONS

Use following genuine fluids, coolants and lubricants recommended for optimum performance of your vehicle.

| Item | Specification | Company | Brand | Qty. |
|---|---|---|---|---|
| Coolant (Pre-mixed) (Antifreeze agent +Soft water 50:50 ratio) | Class II/JIS K2234 TATA SS7700S1 | SUNSTAR CCI | Golden Cruiser LLC 2200NP | BCS 4.7 L<br>BCS 4.6 L |
| | | IOCL | TATA MOTORS GENUINE COOLANT KOOL PLUS | |
| Gearbox Oil | Synthetic SAE 75W90 BOT130M | Castrol | Castrol | 0.9 ± 0.1 L |
| Brake Fluid | SAE J 1703, DOT 4 | PETRONAS | PETRONAS TATA MOTORS Genuine Brake Oil DOT 4S | 0.69 L<br>0.9 L |
| | | Sunstar CCI | Golden Cruiser Tata Genuine Brake Fluid (DOT4) | |
| | | CASTROL | Optional - CASTROL- Universal Brake Fluid DOT 4 | |
| Refrigerant | R-134a | — | — | 560 ± 20 gms<br>580 ± 20 gms |
| AC Compressor Oil | ZEROL ESTER 68 HYBRID oil | Shrive | ZERO ESTER 68HYBRIDE PVE FVC56EA / FVC68D | 150 ± 10 ml |
| Sunroof Grease | MULTEMP 2C194 | — | — | As required |

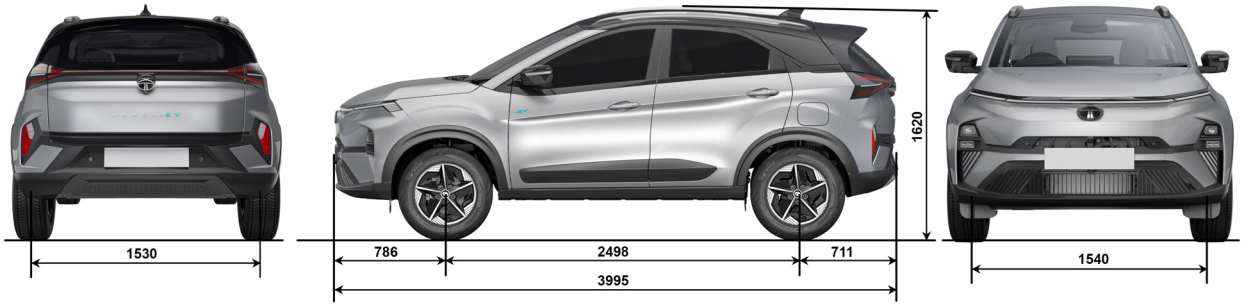
## VEHICLE SPECIFICATIONS

| Parameter | Nexon EV |
|---|---|
| **Powertrain** | |
| Battery | 45 kWh Lithium Iron Phosphate |
| Electric motor | Permanent magnet synchronous motor |
| Maximum power, kW | 98kW |
| Maximum torque, Nm | 215 Nm |
| **Gear Box** | |
| Model and Type | Electric Vehicle Gear Box |
| No. Of gears | Single speed, 1 Forward Drive + 1 Reverse Drive |
| **Steering** | |
| Type | Column Mounted Electric Power Assisted Steering System |
| **Brakes** | |
| Brakes | Front (Disc); Rear (Disc) |
| Parking brake | Electronic Parking Brake |
| **Suspension** | |
| Front | Double acting telescopic type. Hydraulic; gas Filled. |
| Rear | Double acting telescopic type. Hydraulic; gas Filled. |

| Parameter | Nexon EV |
|---|---|
| **Wheels & Tyre** | |
| Tyres | 215/60 R16 95H (Radial / Tubeless / Normal)<br>195/60 R16 89H (Radial / Tubeless / Normal) (Spare wheel only) |
| Wheel rims | Option I - 6J x 16 steel wheel<br>Option II - 6.5J x 16 Alloy wheel |
| **Cab / Body** | |
| Type | Steel Monocoque Body |
| **Electrical System** | |
| System voltage | 12 Volts |
| Auxiliary battery | 12V DIN 40 Ah |
| **Main Chassis Dimension (in mm)** | |
| Wheel base, mm | 2498 |
| Track front, mm | 1540 |
| Track rear, mm | 1530 |
| Overall length, mm | 3995 |
| Overall height, mm | 1625 (unladen) |
| Max. Width, mm | 1802 |
| **Performance** | |
| Max. Speed | Option I - 150 Kmph, Option II - 120 Kmph |

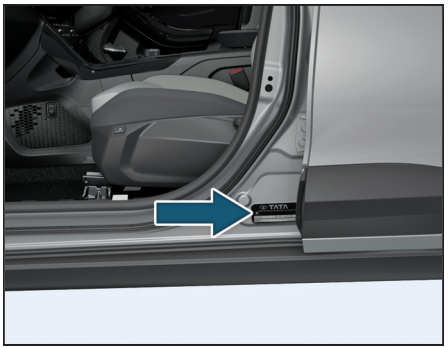
| Parameter | Nexon EV |
|---|---|
| Max. Recommended Gradeability | Option I - 16.6 deg<br>Option II - 16.1 deg |
| Minimum Turning Circle Dia. in meter as per IS:12222 | 10.6 m |
| Minimum Turning Clearance circle dia. in meters as per IS:12222 | 10.9 m |

## VEHICLE DIMENSIONS




***NOTE: Dimensions are in mm unladen condition***

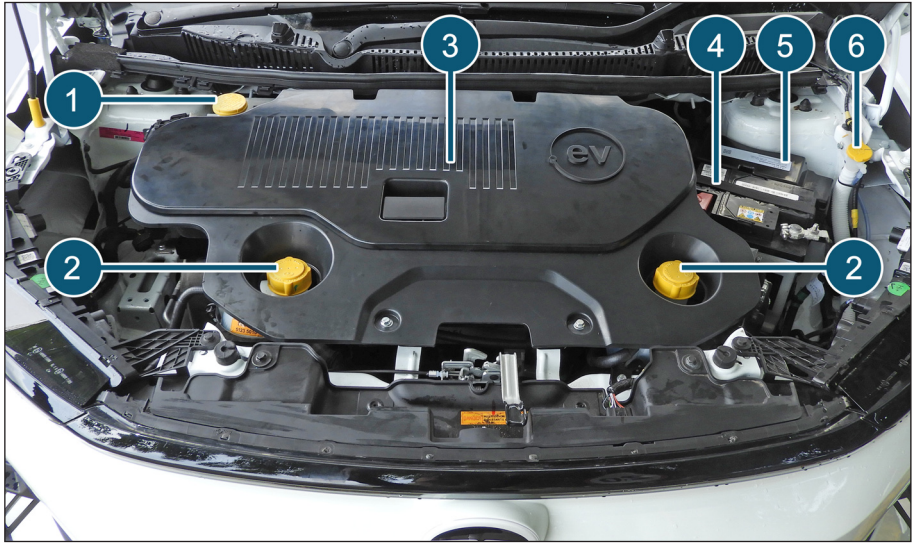
## AGGREGATE IDENTIFICATION



VIN plate near co-driver seat

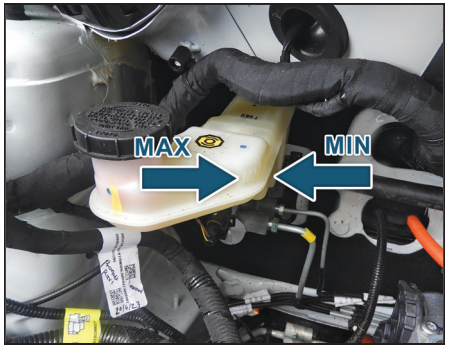
Chassis No. punching below driver seat

## MOTOR COMPARTMENT



1. Brake Fluid Reservoir
2. Coolant Tank
3. Motor (below Frunk)
4. Low Voltage Battery
5. Motor Compartment Fuse Box
6. Windshield Washer Container

## BRAKE FLUID LEVEL




The level of the brake fluid should be between the 'MIN' and 'MAX' marks provided on the side of the brake fluid container. If the level falls below the 'MIN' mark, add recommended brake fluid.

**ⓘ NOTE**

- *Do not allow brake fluid to make contact with the skin or eyes.*
- *Do not allow brake fluid to splash or spill on the paint surface as it will damage the paint. In case of spillage, wipe it off immediately.*

***For more clarity about location of Brake Fluid Container and filling cap, please refer respective motor Compartment.***

## WINDSHIELD WASHER FLUID LEVEL

Examine if there is washer fluid in the tank. Fill it if necessary. Use a good quality fluid, diluted with water as necessary.

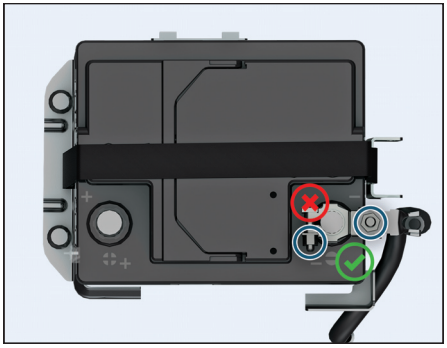
**ⓘ NOTE**

- *Do not use detergent or any other additive in the windshield washer reservoir. This can severely impair visibility when sprayed on the windshield, and can also damage your vehicle's paint.*
- *Do not operate washer motor with no fluid in washer tank, washer motor will be damaged.*

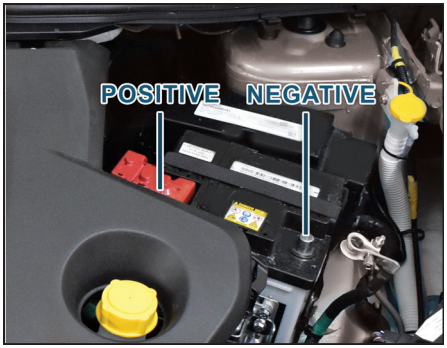
***For more clarity about location of Windshield Washer Container and filling cap, please refer image of the respective motor Compartment.***

## 12V BATTERY

- Examine the battery for electrolyte level against the marking on the battery outer case.
- Use a proper spanner to loosen and remove cables from the terminals.
- Always disconnect the negative (-ve) terminal first and reconnect it last.
- If your vehicle is equipped with Battery Sensor, then disconnect only the Sensor output cable.
- Ensure battery is securely mounted.
- If you need to connect the battery to charger, remove both the terminal to prevent damage to the vehicle electrical system.
- Apply terminal coats/spray/petroleum jelly to prevent battery terminal from oxidation.
- Refer the below Battery Sensor image for do's and don'ts.



***For location of battery, please refer image of the respective motor Compartment.***



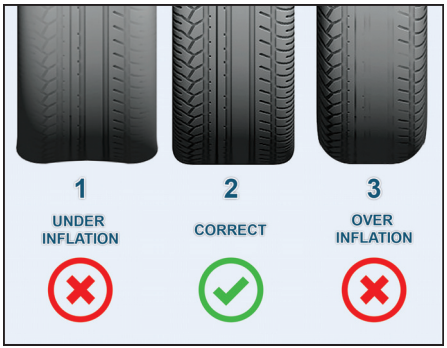

**ⓘ NOTE**

*Use only authorized Battery recommended by TATA Motors. Use of any other unauthorized Battery will result into Intelligent Alternator Control (IAC) function detoriation.*

**ⓘ NOTE**

- *During normal operation, the battery generates gas which is explosive in nature. A spark or open flame can cause the battery to explode causing very serious injuries.*
- *Keep all sparks, open flames and smoking materials away from the battery.*
- *The battery contains sulphuric acid (electrolyte) which is poisonous and highly corrosive in nature. Getting electrolyte in your eyes or on the skin can cause severe burns. Wear protective clothing and a face shield or have a skilled technician to do the battery maintenance.*

## TYRES




| | | |
|---|---|---|
| 1 | Under inflation | Excessive side tread wear |
| 2 | Correct tyre pressure | Uniform wear |
| 3 | Over inflation | Excessive center tread wear |

### Inflation

Check for inflation and condition of your vehicle tyres periodically.

Check the pressure in the tyres when they are cold.

Keeping the tyres properly inflated gives you the best combination of riding comfort, handling, tyre life and better energy efficiency.

Over inflation of tyres makes the vehicle ride bumpy and harsh. Tyres are more prone to uneven wear and damage from road hazards.

Under inflated tyres reduce your comfort in vehicle handling and are prone to failures due to high temperature. They also cause uneven wear and more energy consumption.

**ⓘ NOTE**

*Every time you check inflation pressure, you should also examine tyres for uneven wear, damage and trapping of foreign objects in the treads and wear.*

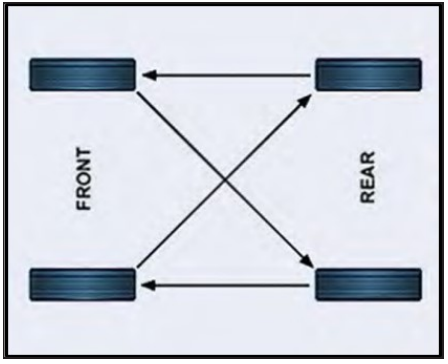
### Recommended Tyre Pressures

**ⓘ NOTE**

*Kindly refer Tyre pressure as indicated on tyre pressure sticker provided on vehicle (near driver seat )*

### Tyre Rotation

To help increase tyre life rotated at specified intervals or earlier depending on the operation of vehicle. The illustrations shows how to rotate tyres without spare wheel.




**ⓘ NOTE**

- *Do not use spare wheel for tyre rotation, in case of temporary spare wheel used.*

- *Two or more temporary tyres should not be used on one vehicle.*
- *Tyre pressure to be checked every 15 days.*
- *Tyre pressure of temporary wheel is to be checked at least once in in a month.*

## Wheel Alignment And Balancing

### Alignment

Incorrect wheel alignment causes excessive and uneven tyre wear. Check wheel alignment at specified intervals.

### Balancing

Wheels of your vehicle are balanced for better ride comfort and longer tyre life. Balancing needs to be done whenever tyre is removed from rim.

**⚠ WARNING**

If the vehicle vibrates abnormally on a smooth road, have the wheel balanced done immediately.

## Special Care For Tubeless Tyres

- When you remove the tyre and install it back on the rim, take precautions not to damage tyre bead. Use tyre removal and assembly machines. Damage or cut on tyre bead may cause gradual loss of air and deflation of tyre.
- Do not scratch the inner surface of tubeless tyre with metallic or sharp object. Tubeless tyres are coated with impermeable layer of rubber from the inner surface which holds the air in the tyre. Removal of this layer due to scratching may cause gradual loss of air and deflation.
- If wheel rim gets damaged in service, get the wheel rim repaired/ replaced immediately. Running the vehicle with damaged rim may cause deflation of tyre and subsequent dislodging of tyre from rim.
- Keep the recommended inflation pressure. Over-inflation, in particular, may cause puncture or bursting of tyre.

**ⓘ NOTE**

*Life and wear pattern of tyres depends on various parameters like tyre pressure, wheel alignment, wheel balancing, tyre rotation, etc. It also largely depends on vehicle speed, load carried, usage, driving habits, road conditions, tyre quality, etc. In case fault is suspected to be due to poor quality of tyres, the same may be taken up with concerned tyre manufacturer.*

## Tyre Equipment

Summer tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tyres will be substantially reduced in wet conditions. If you operate your vehicle on wet roads, use all season tyres for all four wheels

## Special Winter Equipment

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows

and wiper blades.

- A shovel to dig the vehicle out of snow-drifts.
- Extra windshield-washer fluid to refill the reservoir tank

## VEHICLE PARKING for LONG DURATION

Following care is to be taken:

1. Park the vehicle in covered, dry and if possible well-ventilated premises. Ensure parking brake engaged.
2. Remove the battery terminal cables (first remove the cable from the negative terminal). Ensure that battery is fully charged.
3. Use wheel chocks to prevent movement of the car.
4. Clean and protect the painted parts using protective wax.
5. Clean and protect the shiny metal parts using commercially available special compounds.
6. Sprinkle talcum powder on the rubber windscreen wiper and lift them off the glass.
7. Slightly open the windows.
8. Cover the vehicle with a cloth or perforated plastic sheet. Do not use sheets of imperforated plastic as they do not allow moisture on the vehicle body to evaporate.
9. Inflate the tyres to 0.5 bar above the normal specified pressure and check it at regular intervals.
10. Check the battery charge every six weeks.
11. Avoid parking vehicle below 20% SoC continuously for two weeks (<14 days)
12. Ideal condition to park vehicle for longer duration (> 14 days) is with 40% to 60% SoC (Disconnect the Aux battery – Ve terminal for longer duration parking)
13. After the resting period the vehicle must be charged to 100% using Slow/AC Charging before use.
14. During the resting period, the user may choose either of the following options to prevent discharge of low voltage battery.
15. Periodically (weekly once) user may switch on the remote Air conditioning for 20-30 mins. This wakes up both the high voltage and low voltage systems and prevents low voltage battery from

getting discharged.

16. If possible, user may choose to disconnect the negative terminal of the low voltage battery. This results in complete vehicle sleep and minimum loss of charge for both low voltage and high voltage batteries.

## SMART KEY BATTERY REPLACEMENT (For PEPS variant)

### Procedure

1. Open rear side of key (battery cover).

2. Replace with new battery in the smart key battery slot.
3. Ensure that the “+” symbol on the battery is facing upwards. The correct polarity is shown on the battery cover.
4. Close the battery cover.
5. Make sure that the key cover is intact properly.

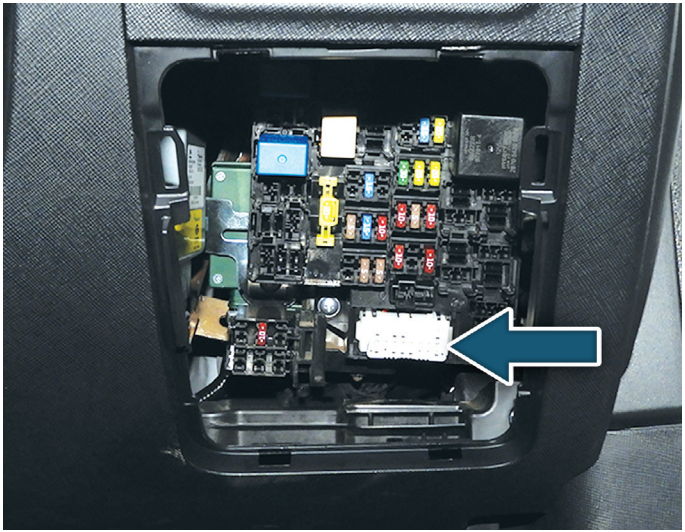
**ⓘ NOTE**

- *Use CR 2032 battery only.*
- *An inappropriately disposed battery can be harmful to the environment and human health. Dispose the battery according to your local law(s) and regulation.*

## ON BOARD DIAGNOSTIC (OBD II) SYSTEM

The OBD system also has a diagnostic connector that can be interfaced with appropriate diagnostic tools, which makes it possible to read the fault codes stored in the Electronic Control Unit, together with a series of specific parameters for Motor operation and Diagnosis. This check can also be carried out by the traffic police. To access the diagnostic connector, open the cockpit fuse box cover, which is located on RH side below the steering wheel.

On board diagnostic located in cabin compartment fuse box. (refer below image)



## DO IT YOURSELF

### Daily Checks

- Tyres for unusual wear, cracks or damage and embedded foreign material such as nails, stones, etc.
- Traces of fluid and oil below vehicle.
- There is sufficient charging for the trip.
- Windshield, windows, mirrors, lights, and reflectors are clean and unobstructed.
- All lamps, wipers, wiper blades and horn for proper operation.
- All switches, gauges and tell-tales are working properly.
- All doors, motor compartment and tail gate are securely closed and latched.
- All doors and tail gate are securely closed and latched.
- Tool kit, jack & handle, warning triangle, owner's manual, first aid kit and vehicle documents are available and stored at their locations.

**ⓘ NOTE**

*Water dripping below the car is normal. This is due to the usage of air conditioning system.*

### Weekly Checks

- Coolant level
- Brake fluid level
- Windshield washer fluid level
- Battery electrolyte level

**ⓘ NOTE**

*Tyre pressure always be measured in cold conditions. Do a check of tyre pressure and condition after every 15 days, including the spare tyre.*

### Brake Hoses And Lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

### Replacing The Components of Your EV

Since the electrical components of vehicle are not user serviceable, it is recommended that you approach your nearest TATA MOTORS Authorised EV Service Centre to replace any electrical components of the car.

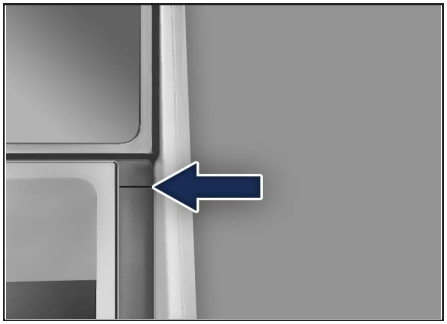
## CAR CARE

Your vehicle is subjected to many external influences such as climate, road conditions, industrial pollution and proximity to the sea. These conditions demand regular care of the vehicle body. Dirt, insects, bird droppings, oil, grease and stone chippings should be removed as soon as possible.

### Washing

Following these tips while washing your vehicle.

1. Always wash your vehicle in shade and the surface is at room temperature.
2. Wash with mild vehicle wash soap like 'Car Shampoo' and use a soft bristle brush, sponge or soft cloth and rinse it frequently while washing to avoid scratches.
3. When cleaning ensure that drain holes of lower panels and rocker panel are free from mud, slug etc to make way for entrapped water inside it to avoid corrosion.
4. To avoid scratches, please wear soft gloves. Remove finger rings, nails, wrist watch while washing.
5. To remove stubborn stains and contaminants like tar, use turpentine or cleaners like 'Stain remover' which are safe for paint surfaces.
6. Avoid substances like petrol, diesel, kerosene, benzene, thinner, acids or other solvents that cause damage to vehicle interior, exterior and paint.
7. Dry your vehicle thoroughly to prevent any damp spots.
8. Rinse all surfaces thoroughly to prevent any traces of soap and other cleaners as this may lead to the formation of stains on the painted surface later.
9. During washing of the vehicle, do not apply water jet OR pressure water from pipe directly on any rubber material or Seal surface. This is to avoid damage to Rubber sealing parts in the sunroof system or in the vehicle. The damage to the sunroof sealing or any other seal in the vehicle will cause water ingress inside the vehicle.



10. Do not wash vehicle underbody with direct jet, also don't wash the under bonnet area with water.

**ⓘ NOTE**

- *Avoid parking the car under trees without proper cover, it will reduce the amount of bird droppings, tree sap and pollen contact on paint surface. Regularly remove the twigs, leaves and vegetation near the windshield areas, to avoid water stagnation.*
- *Always close the sunroof while washing the vehicle.*

**⚠ WARNING**

Do not direct high pressure washer fluid/ water jets (Pressure above 0.5 bar) at electrical devices and connecter during washing. This is to prevent malfunction / failure of electrical system due to water ingress.

After drying the vehicle, inspect it for chips and scratches that could allow corrosion to start. Apply touch up paint where necessary.

### Cleaning of Carpets

Vacuum clean the carpet regularly to remove dirt. Dirt will make the carpet wear out faster. Periodically, shampoo the carpet to keep it looking new.

Use carpet cleaners (preferably foam type). Follow the instructions that come with the cleaner. Apply it with a sponge or soft brush. Keep the carpeting as dry as possible by not adding water to the foam.

**ⓘ NOTE**

*Avoid wiping of painted surface in dry condition as it may leave scratches on the painted surface.*

### Cleaning of Windows, Front and Rear Glasses

Clean the windows inside and outside with commercially available glass cleaners.

This will remove the haze that builds up on the inside of windows. Use a soft cloth or paper towels to clean all glass and plastic surfaces.

### Waxing

Waxing and polishing is recommended to maintain the gloss and wetlook appearance of your paint finish.

1. Use good quality polish and wax for your vehicle.
2. Re-wax your vehicle when the water does not slip off the surface but collects over the surface in patches.

### Polishing

Polishes and cleaners can restore shine to the painted surface that has oxidized and become dull. They normally contain mild abrasives and solvents that remove the top layer of the finish coat. Polish your vehicle, if the finish does not regain its original shine after using wax.

### Interior Fabric Cleaning Tips

1. Stains should be treated immediately. If left for a long time, they can leave a permanent mark.
2. Cleaning the stains immediately is important especially for stains, which contain artificial colors in the stain creating liquid or semisolid substance. The colorant may leave a stain if kept for longer time.
3. Stain should not be removed by rubbing. As far as possible, try to blot or lift the stain with cloth or plastic spatula and then clean the remaining stain with cloth or sponge.
4. If the stain has dried, then gently brush off the material and then press with

damp cloth or sponge till it disappears.

5. Do not use household detergents to clean the fabric.
6. Always use clean cotton cloth for cleaning.

### Paint Care

Following guidelines will help you to protect your vehicle from corrosion effectively.

**ⓘ NOTE**

*Avoid Spillage or Direct contact of Air freshener liquid/chemicals with painted plastic parts. These chemicals may cause damage to paint like blisters, peel off, wrinkles etc.*

### Proper Cleaning

In order to protect your vehicle from corrosion it is recommended that you wash your vehicle thoroughly and frequently in case:

- There is a heavy accumulation of dirt and mud especially on the underbody.
- It is driven in areas having high atmospheric pollution due to smoke, soot, dust, iron dust and other chemical pollutants.
- It is driven in coastal areas.
- The underbody must be thoroughly pressure washed after every three months.
- In addition to regularly washing your car, the following precautions need to be taken.

### Periodic Inspection

- Regularly inspect your vehicle for any damage in the paint film such as deep scratches and immediately get them repaired from an authorized service outlet, as these defects tend to accelerate corrosion.
- Inspect mud liners for damages
- Keep all drain holes clear from clogging.

### Proper Parking

- Always park your vehicle in shade to protect it from harsh sunlight or in a well-ventilated garage so that there is no dampness on any part of the vehicle.

### Wiper Care

- To prevent damage to the wipers or windshield, do not operate the wipers when the windshield is dry.
- To prevent damage to the wiper arms and other components, do not attempt to move the wipers manually.

**ⓘ NOTE**

*We strongly recommended to avoid applying any external coating solution on vehicle glazing / glasses, especially on Front & Rear Windscreen Glass. This may affect the Wiper performance & lead to poor visibility while using Wipers in wet condition/Rainy season.*

**Special Care**

Illuminated Steering Wheel and Fascia Switch Panel

- Always use dry and soft cloth for cleaning, do not use shiner, sanitizer, petrol, soap solution, detergent, foam based cleaner or any other liquid etc. as this could damage the surface.
- Do not use any sharp or other objects which can create scratch on illuminated surface.
- Do not apply any protective film on the driver Airbag from un-authorised sources.