

TVS **NTORQ 150**

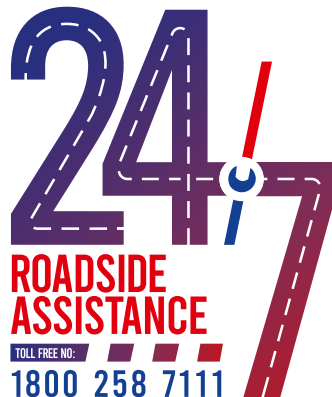


SCAN FOR 24X7
ROADSIDE ASSISTANCE NOW

WE GO THE DISTANCE WHEN IT COMES TO YOUR ASSISTANCE.

MAKE YOUR RIDES HASSLE-FREE AND STRESS-FREE
WITH SERVICE BEYOND JUST ASSISTANCE.

Sign up for our 24X7 Roadside Assistance and enjoy
quick and efficient service anytime, anywhere.





Drive In.

Drive Out.



**Say bye-bye to waiting time
for servicing your bike.**

Get your vehicle serviced in 1 hour at no additional cost. Contact your nearest Dealership for details.[†]

[†] Facility available at selected Dealerships only. Terms and conditions apply





Busy Life? Easy Servicing!

Now, service your bike anywhere, anytime.

- ★ Service the vehicle at your door step.
- ★ Available for regular maintenance or breakdown service only.
- ★ Offered at nominal convenience charges.

Contact your nearest Dealership for details.[†]

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Incase you need any Clarification please contact

TVS Motor Company Authorised Main Dealer / Authorised Dealer

Or

TVS Motor Company's Area Offices (flip over for addresses)

Or

Toll Free Number : 1800-258-7111

Email : customercare@tvsmotor.com

Disclaimer : TVS Motor Company or any of its officials / Authorized Main dealer / Authorized Dealer do not ask customers for bank / card / wallet details / authentication. In case you face any such claim, please report to the relevant local authorities immediately.

CONTACT AT OUR AREA OFFICES

TAMILNADU - 1 & 3

1. TVS Motor Company Limited

V Floor, Universal,
No. 2, MC Nichols Road,
Chetpet, Chennai - 600 031.
Phone : 044 - 28361651/28361654
Email : AO.Chennai@tvs motor.com
AO.Madurai@tvs motor.com

TAMILNADU - 2

2. TVS Motor Company Limited

No. 10, 2nd floor,
Shree Shanmugapriya Towers,
Kannuswamy Street,
Behind Hotel Annapoorna,
R S Puram, Coimbatore - 641 002.
Phone : 0422 - 4350060/2541035
Email : AO.Coimbatore@tvs motor.com

KERALA

3. TVS Motor Company Limited

Ambady Towers, Second Floor,
Door No. 27/631, A6,
Edappally-Pookkattupady Road,
Edappally PO., Cochin - 682 024.
Phone : 0484 - 2544578/2556938
Email : AO.Cochin@tvs motor.com

KARNATAKA - 1 & 2

4. TVS Motor Company Limited

TVS Focus Towers, Plot No. 25 and 23,
Konappana Agrahara Village,
Begur Hobli, Electronics City Phase 1,
26A, 1st Main Road,
Bengaluru - 560 100.
Email : AO.Bangalore@tvs motor.com

TELANGANA

5. TVS Motor Company Limited

Rukumani Towers, First Floor,
No. 3-11-30, Plot No. 11,
Paigha Colony, Behind Anand Theater,
Secunderabad - 500 003.
Phone : 040 - 27840590/27844419
Email : AO.Hyderabad@tvs motor.com

ANDHRAPRADESH

6. TVS Motor Company Limited

1st Floor, Passport office building,
Sri Venkateswara Theatre,
Door No. 38-8-45,
M G road, Punnammathota,
Vijayawada - 520 010.
Email : AO.Vijayawada@tvs motor.com

MAHARASHTRA - 1 & 2

7. TVS Motor Company Limited

No. 401, 4th Floor, The Chambers,
Plot No. 4/12/3, Near Ganapati Chowk,
Viman Nagar, Pune - 411 014.
Phone : 020 - 26632112/26632110
Email : Service.pune@tvs motor.com

MAHARASHTRA - 3

8. TVS Motor Company Limited

No. 502B, 6th Floor, B Wing,
Shriram Shyam Towers,
Near LIC Square, Sardar,
Nagpur - 440 001.
Phone : 0712 - 2569932
Email : Service.Nagpur@tvs motor.com

CHATTISGARH

9. TVS Motor Company Limited

Office No. 526, 527 & 528,
Ffizo Magneto,
5th Floor, Magneto The Mall,
Labhandi, NH-6, Raipur - 492 010.
Phone : 0771 - 4260006
Email : AO.Raipur@tvs motor.com

GUJARAT**10. TVS Motor Company Limited**

1101-08, 11th Floor, Solitaire Connect,
Near Gallops Motors, S G Highway,
Makarba, Ahmedabad - 380051
Phone : 079 - 65443748
Email : AO.Ahmedabad@tvs motor.com

MADHYA PRADESH - 1**11. TVS Motor Company Limited**

No. 211-212, 2nd Floor,
Chinar Incube Business Centre,
Chinar Fortune City,
Near Brindhavan Dhaba,
Hosangabad Road,
Bhopal - 462 026.
Phone : 0755 - 2499406/2499306
Email : AO.Bhopal@tvs motor.com

MADHYA PRADESH - 2**12. TVS Motor Company Limited**

501, N R K Tech Park,
5th floor, Plot No. 9-C-C-A,
Scheme No. 94, Ring Road,
Indore - 452 010
Phone : 9685558301
Email : AO.Indore@tvs motor.com

RAJASTHAN - 1 & 2**13. TVS Motor Company Limited**

Plot No. 17-18,
2nd Floor of National Motors Building,
Jhotwara Industrial Area,
Jaipur - 302 012.
Phone : 0141 - 5150901/5150902
Email : AO.Jaipur@tvs motor.com
AO.Udaipur@tvs motor.com

HARYANA**14. TVS Motor Company Limited**

Block D & E, Third Floor,
"Golden - I", Plot No. 11,
Sector-Techzone - 4,
Gr. Noida West - 201 318
Phone : 011 - 29834640/29834773
Email : AO.Delhi@tvs motor.com

PUNJAB & CHANDIGARH**15. TVS Motor Company Limited**

4th Floor, Royal Business Park,
Chandigarh Ambala Highway,
Zirkapur - 140 603.
Phone : 01762 - 464777/465777
Email : AO.Chandigarh@tvs motor.com

DELHI, UTTAR PRADESH WEST & HILLS**16. TVS Motor Company Limited**

Block D & E, Third Floor,
"Golden - I", Plot No. 11,
Sector-Techzone - 4,
Gr. Noida West - 201 318
Phone : 011 - 29834640/29834773
Email : AO.Delhi@tvs motor.com

UTTAR PRADESH CENTRAL & EAST**17. TVS Motor Company Limited**

1st Floor, Cyber Tower, TC-34/V-2,
Vibhuti Khand, Gomti Nagar,
Lucknow - 226 010.
Phone : 0522 - 4918300/4918301
Email : AO.Lucknow@tvs motor.com

WEST BENGAL**18. TVS Motor Company Limited**

Ground Floor & First Floor,
133 A. S. P. Mukherjee Road,
Opp. Tollygunge Police Station,
Kolkatta - 700 026.
Phone : 033 - 24617096/24617092
Email : AO.Kolkatta@tvs motor.com

JHARKHAND**19. TVS Motor Company Limited**

Second Floor, Lucas Service Building,
Argora Bypass Road,
Ranchi - 834 002.
Phone : 0651 - 2244715
Email : AO.Ranchi@tvs motor.com

BIHAR**22. TVS Motor Company Limited**

Sai Corporate Park, Block - A,
4th Floor, Bailey Road,
Rukanpura,
Patna - 800014
Email : AO.BNJ@tvs motor.com

ORISSA**20. TVS Motor Company Limited**

No. 303, 3rd Floor,
Creative Plaza, Rasulgarh,
Bhubaneswar - 751 010.
Phone : 0674 - 2580019
Email : AO.Bhubaneswar@tvs motor.com

NORTH EAST STATES**21. TVS Motor Company Limited**

147, Udayan, Ganesh Guri,
Near Hotel D Courtyard,
R G B. Road, Guwahati - 781 005.
Phone : 0361 - 2202030/2202031
Email : AO.Guwahati@tvs motor.com



3-VALVE 150 CVTi - Revv ENGINE

Your scooter comes with 150 cc 3 valve powerful engine. The additional intake valve in your scooter helps in faster filling of petrol-air mixture and faster & better combustion.



FULLY DIGITAL CONNECTED INSTRUMENT CLUSTER

Your scooter is fitted with 'Fully Digital Connected Instrument Cluster' with TFT display screen. This first-in class cluster is equipped with innovative features like Time indication, Fuel indication, Odometer, Trip meter A, B & F, Service reminder and more.

TRIP F: Trip F is a unique feature in your vehicle which would indicate the number of kilometers driven in reserve condition. This would be a critical information to prevent fuel shortage during ride.



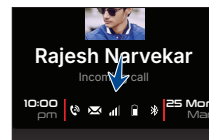
RIDE MODES

You can change the mode of the vehicle on the fly. Street and Race are two modes of your scooter. For city ride, try using Street mode and for a powerful ride, use Race mode.

SMARTXONNECT BLUETOOTH CONNECTIVITY

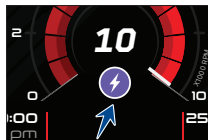
The connected instrument cluster of your scooter has a built Bluetooth® connectivity through which you can connect your Android™ smart phone / iPhone® to access the features like caller ID, missed call notification, navigation in the cluster access, ride stats share and the last parked location of the vehicle from TVS Connect app.

Login to TVS Connect app to explore more SmartXonnect features.



IGO ASSIST

iGO assist technology that draws power from Battery for improved Acceleration & Better mileage. iGO assist improves acceleration and makes it easier to overtake at traffic signals, while enhancing fuel efficiency. Refer page no. 45 details.



ANTI-LOCK BRAKING SYSTEM (ABS)

Your scooter is equipped with advanced single channel ABS technology to enhance your overall riding experience. Refer page no. 14 for details.



'TVS intelliGO'

An intelligent start / stop system that further enhances fuel efficiency. Easy on your pocket and kinder to the environment. Refer page no. 41 for details.



LOW FUEL INDICATOR

'Low Fuel Indicator' is yet another unique feature of your scooter which indicates you to refill the fuel when the fuel in the tank goes below minimum safe level.



INTEGRATED GENERATOR (ISG)

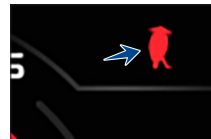
'Integrated Starter Generator (ISG)' system delivers a noiseless start of your scooter. An ISG Malfunction Indication lamp is added to glow whenever any ISG related fault is present in vehicle.



STARTER

SIDE STAND CUT-OFF

You scooter has been provided with auto engine cut-off and start control system when the side stand is engaged.



ALL IN ONE LOCK

Your scooter has all in one lock that unlocks the seat and fuel tank cap at the ignition lock itself. Refer page no. 29 for details.



EXTERNAL FUEL FILL

This is an exclusive facility which allows you to fill petrol without even getting out of your seat.



PETAL DISC BRAKE

Your scooter is fitted with '220 mm Roto - Petal Disc' at the front for effective braking and safe riding even at higher speeds.



PATENTED E-Z CENTRE STAND

'E-Z Centre Stand' of your scooter reduces the effort required to place the scooter on stand.



PARKING BRAKE (Rear Brake Lock)

'Parking Brake' is another safety feature which protects your scooter from falling due to wheel rotation when it is parked with the side stand on a slope (refer page no. 33 for details).



LARGER SPORTY ALLOY WHEELS

'Larger Sporty Alloy Wheels' with high mechanical advantage gives progressive braking of your scooter, results in best-in-class 'Shortest Distance' braking. It also provides superior comfort in bad road conditions.



CHUNKY TUBELESS TYRES

'Chunky Tubeless Tyres' are another important unique feature in your scooter. Tubeless tyres reduces the chances of getting punctured. Even if there is a puncture, sudden leakage of air is avoided, thereby provide better safety and convenience. It is also very easy to repair the punctured tyres.



PASS-BY SWITCH

Pass-by switch allows you to easily switch between high and low beam of head lamp with easy press and auto release. It is helpful especially while overtaking.



HAZARD SWITCH

Your scooter comes in with a first in segment feature- Hazard switch. Turn on your hazard switch to either warn other drivers that your vehicle is in the way of traffic due to an emergency stop, or to notify them that you are having some problem.

Once the switch is pressed, it will flash all the turn signal lamps until it is pressed again.



ENGINE KILL SWITCH

'Engine Kill Switch' is an another unique feature of your TVS NTORQ 150 which allows you to shut the engine without switching 'OFF' the ignition.



LED PROJECTOR HEAD LAMP WITH 'FOLLOW ME' FEATURE

Your scooter comes with premium LED projector head lamps. Efficient and bright head lamps gives your scooter a totally upgraded look and style with better visibility for night rides.

The 'Follow Me Head lamp' feature extends visibility during nighttime journeys by remaining illuminated for a few seconds even after the ignition is turned off, guiding you safely to your doorstep.



LED FRONT COMBINATION LAMP WITH TURN SIGNAL LAMP

The TVS NTORQ 150 is furnished with LED Front combination lamps with integrated turn signal lamps, enhancing its appearance with a stylish touch and elevating its overall aesthetic appeal.



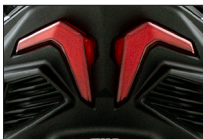
SMART PHONE CHARGER

Your scooter has a 'Smart Phone Charger' which enables you to charge your mobile phone even when you are traveling. Use the charger only when the engine running.



LED TAIL / STOP LAMP

Your scooter has a 'LED Tail / Stop Lamp' for better visibility and stylish looks.



UNDER-SEAT STORAGE

Your scooter has a 22 litre 'Under-Seat Storage (Utility box)' space to carry your luggage belongings, full face helmet etc.



RETRACTABLE BAG HOOK

Your scooter has a retractable 'Bag Hook' to carry light luggage like carry bags weighing upto 3 kg.

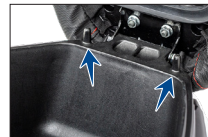
This hook is located below the handle bar on the rear panel.



HELMET HOOKS

Your scooter has two 'Helmet Hooks' under the seat assembly at the front end of utility box to secure your helmet.

Your helmets can be hanged in this hooks when the vehicle's utility box is filled with your things.



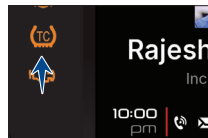
FRONT GLOVE BOX

Your scooter is provided with glove box front to hold your mobile phone while charging or to hold a small things.



TRACTION CONTROL SYSTEM

Your scooter is equipped with a Traction Control System (TCS) that manages engine torque to provide optimal driving traction. You can enable or disable the TCS according to your preference. For detailed instructions on how to activate or deactivate the TCS, refer to page no. 47.



Welcome to the “Tribe!”

Congratulations on becoming a proud owner of the All-New TVS NTORQ 150. Get ready to experience the Hyper Sport Scooter!

Sculpted with stealth aircraft inspired styling & loaded with never-before next-gen technology, the all-new TVS NTORQ 150 offers First-in-segment features like Projector Headlamps, Stylish front combination lamp, TFT Cluster with 60+ connected features, 4 Way Navigation Switch, Naked Handlebar, iGO Assist with boost mode, ABS & Traction Control for best safety and many more.

It is designed to make your everyday ride thrilling.

For a complete understanding of your new vehicle's features and operation, please refer to the owner's manual. Carefully following the instructions will ensure years of reliable riding. We recommend getting your TVS NTORQ 150 serviced at authorized TVS Motor Company dealerships for optimal performance.

Remember, safe riding is always in your hands. Ride responsibly and enjoy the journey!

TVS MOTOR COMPANY LIMITED

Take time to familiarize yourself with your TVS NTORQ 150 and its performance characteristics.

This Owner's Manual contains a host of useful information. Please take the time to read this manual before you ride your new TVS NTORQ 150. Get familiarised with the operation of your scooter for maximum safety and pleasure. The better you know your vehicle, the more pleasure you will experience riding your new vehicle. Ensure that anyone else riding your TVS NTORQ 150 does the same.

All information, illustrations, photographs and specifications contained in this owner's manual are based on the latest product information available at the time of this publication. TVS Motor Company Limited may, however, incorporate modifications or improvements on its vehicles at any time without notice, and therefore, in such events it is possible that the relevant part of the owner's manual does not apply to your vehicle.

Prior permission of TVS Motor Company Limited is required for quoting, copying or reproducing any part of this owner's manual.

Note

Accessories shown in the picture may not be part of the standard equipment. Pictures shown in this manual are of TVS NTORQ 150 base version unless specified.

TVS NTORQ 150 is provided with always Head lamp 'ON' (AHO). The head lamp glows automatically once the engine is started without activating any other switch.

Since your vehicle is fitted with side stand cut-off system ensure to retract the side stand before starting the vehicle.

Operating this vehicle safely is an important responsibility of the rider. To help you make decisions on safety, we have provided necessary operating procedure and other information in this manual. This information alerts you on potential hazards that could hurt you or others. Since it is not possible to warn you about all the hazards associated with operating or maintaining the vehicle, you must use your own judgement.

You will find important safety information in following form in this manual. These words carry the following connotations:

Warning

Disregarding this message might result in injury to the rider or major accidents.

Caution

This message indicates special procedures or precautions to be followed to avoid damage to the vehicle.

Note

This message provides further clarification for clear understanding of any particular information.

The first 1000 km is a crucial part for the life of your scooter. Proper running-in operation during this period helps in ensuring a maximum life and smooth performance of your scooter.

The reliability and performance of your scooter depends on the special care and restraint exercised during the running-in period. It is especially important that you avoid operating the engine in high speed (RPM), which could expose the engine parts to excessive stress. Maximum recommended speed during the running-in is:

Maximum 50 km/h speed upto 1000 km (vary the engine speed for better mating of parts).

The first free service at 500 ~ 750 km or 30 ~ 60 days (whichever occurs earlier) is most important. During running-in period all the engine components and other parts will have set in. All adjustments to be restored, all fasteners to be tightened. Engine and transmission oil to be replaced. Timely performance of the first free service will ensure optimum service life and performance from the engine.



Caution

Replacing the engine and transmission oil during first free service is most important for better life of engine. Always use TVS TRU4 SKUUTA oil (SAE10W30 API-SL, JASO MB) for better performance and life.

This scooter is equipped with advanced single channel ABS technology to enhance your overall riding experience. ABS system is designed to prevent wheel lock-up and help you maintain steering control during sudden braking, whether on dry or wet roads, or on loose surfaces like gravel. In a single-channel ABS system, the ABS is provided only to the front brake.

How does ABS work?

When a rider applies the front brake continuously, as he detects a dangerous obstacle in dry or wet roads, loose gravels etc. transmits an excessive brake force to the wheels. This excessive force may cause the wheels to stop spinning and leads to loss of grip. With no firm contact between the tire's contact patch and the road surface, the vehicle becomes unstable and a crash is imminent.

The slipping wheel on a riding surface results in losing control of whole vehicle which usually occurs in fraction of a second. Restoring traction while keeping the vehicle balanced is only a result of luck, or extreme training, as is the case of professional stunt riders who drift. Preventing the wheel from slipping due to excessive braking force compensates losing control and help the rider to maneuver the vehicle and to avoid accidents.

So what the ABS does is actually limiting the braking force exerted by the rider by regulating the brake pressure and keep the wheel spinning. Once the imminence of the locking (and therefore skidding) is avoided, the system re-applies the maximum braking force until the next skid is anticipated. By limiting the max force of the braking maneuver, the ABS systems practically allow riders to use the greatest stopping force possible without locking the wheels.

How does the ABS understands the wheel locking?

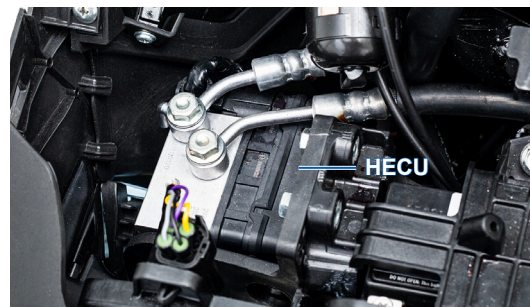
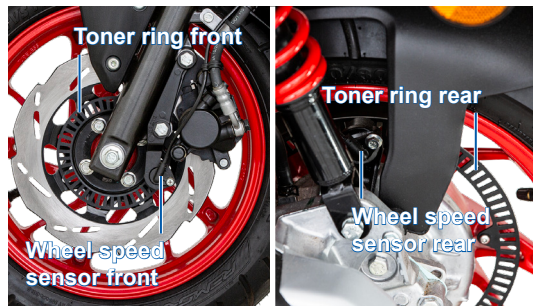
The ABS uses continuous wheel speed monitoring system; wheel speed sensors and toner rings (pulsar rings) and a Hydraulic Electronic Control Unit (HECU).

During normal operation the ABS works similar to a normal brake, but functions only when the wheels are tends to lock up. The speed sensors fitted on both the wheels measures the rotational speed of the wheels, when the wheels speed reduces rapidly i.e. wheel tends to lock, the HECU modulates the pressure in the brake circuit of the front wheel and thereby prevents the front wheel from locking.

How the irregular road surface affects the braking?

Humps and irregular surfaces of the road can cause the wheels to lose contact temporarily with the road surface; if this happens the braking force that can be transmitted to road surface is zero.

If the brakes are applied under these condition, the ABS has to reduce the braking force to ensure and maintain the directional stability when the wheels regain its contact with the road surface. At this instant the ABS must reduce the traction, so that the wheels will continue to rotate under all imaginable circumstances, because this is the precondition for ensuring directional stability.



As soon as the actual circumstances arises, the system reacts instantly and adjusts braking force accordingly to achieve optimum braking.

Why does lever pulsate during brake application?

Vehicles fitted with ABS uses the conventional brake system during normal operation. But during hard stop the brake lever feels different, i.e., a rapid pulsation in the lever; This is absolutely normal.

It is not necessary to have this pulsation feel every time the brake is applied. Pulsations are felt only during wheel locking tendency, occurs due to the modulation of pressure in the brake circuit by HECU. Pulsation means that the vehicle is in limit. This pulsation feel also depends on the road condition.

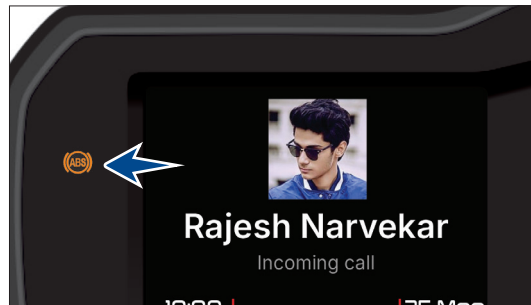
Warning

The ABS can apply and release the pressure in the brake circuit much faster than that rider can do with brake lever to avoid wheel locking. So there is no need to pump the brake, it requires only continuous application.

Incase of single channel ABS system, only the front brake of your scooter is fitted with ABS system and not the rear brake. Applying rear brake alone can cause wheel skidding just like normal braking system incase of single channel ABS system. Always apply both front and rear brake for better performance.

ABS warning lamp

Every time you turn 'ON' the ignition, your scooter automatically performs a self-check. During this process, the ABS warning lamp on the speedometer console starts blinking. Once the scooter reaches a speed of 5 km/h, the warning lamp turns 'OFF', and it will blink again when the speed falls below 5 km/h confirming that the ABS is functioning properly. However, if the warning lamp stays continuously 'ON' even after exceeding 5 km/h, it indicates a fault in the ABS system. In such cases, please visit the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer for inspection and service.



DO'S AND DON'TS

Do's

- ◆ Check the ABS warning lamp for any warning before driving the vehicle.
- ◆ Apply both front and rear brake for better performance.
- ◆ Apply continuous brake in ABS mode for better performance. Do not pump.
- ◆ Perform the periodic maintenance as per the schedule.
- ◆ ABS should be serviced only at TVS Motor Company Authorised Main Dealer / Authorised Dealer.
- ◆ Carefully remove the wheels during puncture / tyre replacement to prevent toner ring damage / bend.
- ◆ Keep the wheel in such a way that the toner ring is facing upwards.
- ◆ Always use recommended brake fluid. Use fresh, clean brake fluid.
- ◆ Use only the recommended make, type and size of tyre (ABS tuned with tyre specified by the TVS Motor Company).

Don'ts

- ◆ Do not use non-standard tyres.
- ◆ Do not ignore any warning lamp on speedometer.
- ◆ Do not adjust the wheel speed sensor air gap your self.
- ◆ Do not run the engine and ride or rotate the rear wheel alone in gear with vehicle on centre stand, during water wash etc.,
- ◆ Do not attempt to correct the toner ring teeth by bending manually or by using any other method.
- ◆ Do not use different toner ring.



Warning

ABS only helps in improving the vehicle control. It is always good to remember not to exceed the physical limits of the vehicle stability. It is rider's responsibility to ride at a suitable speed, while taking care of conditions and road surface. ABS will not compensate for errors in the judgment or improper brake use in the various situation. ABS never eliminates the danger of falling while turning.

Hard braking during sharp cornering on slippery surface may lead to vehicle instability. Under such circumstances gradual braking is recommended.

- ◆ Do not insert any metallic parts near wheel speed sensor.
- ◆ Do not test the ABS on road!! , but use ABS (it is already tested).
- ◆ **Do not use non-genuine spares like pads, discs, tyres etc.**

Note

Incase of ABS failure, the braking system will work like a non ABS braking system and provides normal stopping distance.

This scooter is equipped with ABS on front wheel. For repair or replacement of tyres please contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

As a general riding practice it is advisable to apply more front brake and less of rear brake.

Use of non-genuine brake pads, tyres, disc etc. leads to poor braking performance and unsafe riding conditions.

Never open HECU on your own, it is a very sensitive part of ABS and needs to be handled only by the trained personnel. Contact your nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

- ◆ Do not try to service HECU or open to separate parts.
- ◆ Do not disengage the ABS by removing the ABS coupler.

Warning

Do not ride the vehicle in conditions like stoppie, on-stand engine revving for testing and during water wash etc. for more than three minutes as it will result in ABS error and ABS warning lamp glowing continuously. In such cases, just switch 'OFF' and switch 'ON' the ignition key once. ABS warning lamp may glow continuously if any ABS error had occurred before.

This error gets cleared automatically and ABS warning lamp goes 'OFF' after riding the vehicle above 5 km/h speed. If the ABS warning lamp is still 'ON', then contact the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

SAFE RIDING RECOMMENDATIONS

Any two wheeler riding requires some precautions to be taken to ensure the safety of the rider, pillion rider and other road users. These precautions are:

Familiarise yourself with new TVS NTORQ 150

Riding skill and your mechanical knowledge forms the foundation of safe riding practices. We suggest you to practice riding TVS NTORQ 150 in a low-traffic condition until you are thoroughly familiar with your vehicle and its controls. Remember practice makes you perfect.

Riding apparel

Loose, fancy clothing can be uncomfortable and unsafe when riding a two-wheeler. Choose good quality two wheeler riding apparel.

Know your limits

Ride within the boundaries of your own skill at all times. Knowing these limits and staying within them will help you avoid accidents.

Warning

Two wheeler safety starts with wearing a good quality helmet. One of the most serious injuries that can happen is a head injury. Always wear an ISI approved helmet that should fit your head comfortably and securely. You should also have good quality goggles to protect your eyes and help your vision.

To prevent or minimize accident, never consume alcohol or drugs before or during the operation of your vehicle. Even minimal consumption of these will affect the rider's ability to control the vehicle.

Posture

Proper vehicle riding starts with proper posture.

1. Keep your elbows relaxed and flexible.
2. Sit and adjust yourself on seat so that arms and shoulders are relaxed.
3. Look widely instead of gazing at one point.



Warning

One-hand riding is dangerous. Keep both hands firmly on the handle bar and both feet securely on the floor board. Under no circumstances should both the hands be removed from the handle bar, as it is very dangerous.

Avoid use of mobile phones while riding as it could lead to fatal accident.

Slow down to a safe speed before negotiating a corner. If this is the first time that you are riding a vehicle of this type, we suggest that you practice on a safe, open area to thoroughly familiarise with the operation of the vehicle.

Cornering

When cornering, centrifugal force works in a direction perpendicular to the direction in which the vehicle is moving. Centrifugal force increases in proportion with speed and the radius of the corner.

During cornering, reduce speed so as to lessen the effects of centrifugal force. By all means, avoid abrupt application of brake or sudden steering.

Braking

For safe riding, it is very important to master the braking techniques.

1. Close / release the throttle.
2. Hold the vehicle upright as you apply the brake.
3. Progressive application of brakes is safer. Do not pump the brakes.
4. Riding down hills, while cornering and wet roads, close throttle and come to a slower speed to avoid the loss of control over the vehicle due to skidding.

Causes for poor braking

1. If the brake shoes / pads or drum / disc are worn out or if there is water or oil on them, sufficient friction does not develop and brakes do not work well.
2. Even when the brake works normally, if the road surface is wet or the tyre surface is worn-out, tyres do not take a firm hold on the surface, increasing the stopping distance.
3. Approximately 60% braking effect is from front brake. **Non-usage of front brake causes poor braking.**

Warning

As the vehicle speed increases, the stopping distance also increases progressively. Be sure that, you have sufficient distance between you and the vehicle or obstruction ahead of you.

Avoid directing the water jet directly towards brake drum / disc pads during water wash.

Using only the front or rear brake is dangerous and can cause skidding and loss of control. Apply both the brakes together and with great care on a wet road or other slippery surfaces.

Any abrupt braking on slippery or irregular roads can cause loss of rider control.

ACCESSORY INSTALLATION TIPS

Use only TVS Motor Company Limited approved accessories.

Take extreme caution while selecting and installing the accessories for your scooter.

The addition of unsuitable accessories can lead to unsafe operating conditions. Your friendly Dealer will assist you in selecting quality accessories and installing them correctly.

While selecting the accessories, make sure that the accessories should not obstruct lighting, steering, suspension level and ground clearance.



Caution

TVS Motor Company Limited does not produce any of those things and not sure about the effects of those accessories on handling or stability. But can warn that the effects will be adverse and any damage caused to your scooter and its components by the use of such accessories will not be covered under warranty.



Additional electrical equipments and controls should not exceed the specified electrical system load of the vehicle (capacity of battery and magneto).

Do not change / add any lighting loads. Use only accessories listed by TVS Motor Company Limited.



Caution

Care should taken not to damage the wiring harness of the vehicle to fit additional electrical accessories; which in-turn affects the 'CAN bus' system of the vehicle.



All the TVS vehicles are tested in the factory for optimum fuel efficiency and CO levels. If the vehicle needs any adjustments, please consult nearest TVS Motor Company Authorised Main Dealer or Authorised Dealer.

While adequate care is exercised at the factory to ensure that the emissions are within the limits, it is essential for the owner to always maintain the scooter in good condition by getting it periodically checked and serviced by TVS Motor Company Authorised Main Dealer / Authorised Dealer so that the emission and fuel consumption levels are maintained as per norms.

Crankcase emission control system

The engine of new TVS NTORQ 150 is equipped with a closed crankcase system to prevent discharging crankcase emissions into the atmosphere. Blow-by gas is returned to the combustion chamber through the air cleaner and the fuel system.

Evaporative Emission Control System

TVS NTORQ 150 is equipped with an evaporative emission control system which consists of a canister and associated piping. This system prevents the escape of fuel vapors from the fuel tank.

Warning

If there is any abnormal jerk, startability issue are felt in the vehicle or noise due to sudden escape of gas during opening of fuel tank cap, immediately report to the TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Note

Your vehicle is tested and certified for emission which meets BS VI emission norms and is valid for initial 12 months from the date of purchase. Get your vehicle certified by the Government authorised emission testing station after initial 12 months of usage. And ensure to get the vehicle certified on expiry of the certificate obtained.

Fill fuel upto the bottom of the neck of the fuel tank to ensure proper functioning of Evaporative Emission Control system.

VEHICLE IDENTIFICATION NUMBER

The frame and engine serial numbers are the only means of identifying your vehicle from others of the same model and type. They are also required to assist your Dealer for ordering parts or referring to special information.



The frame serial number is stamped on the frame, at the rear end below the seat assembly. Open the seat assembly to read the frame number.



The engine serial number is stamped on the left side of the engine, at the bottom, near center stand mounting. See bottom to read serial number.

LOCATION OF PARTS - HANDLE BAR



1. Fully digital connected instrument cluster
2. Master cylinder front
3. Rear view mirror R
4. Engine kill switch
5. Adjustable right hand brake lever
6. Throttle grip
7. Mode switch
8. Hazard switch
9. Electric starter switch
10. All in one lock
11. Bag hook (front)
12. Glove box front
13. Horn switch
14. Turn signal lamp switch
15. Info switch
16. Adjustable left hand brake lever
17. Switch pass-by
18. Rear view mirror L
19. Switch beam control
20. Parking brake (rear brake lock)

LOCATION OF PARTS - VEHICLE LEFT SIDE



1. Disc plate front
2. Front wheel axle
3. Caliper assembly front
4. Easy center stand
5. Side stand
6. Rear brake adjuster nut
7. Pillion foot rest L
8. Reflex reflector L

LOCATION OF PARTS - VEHICLE RIGHT SIDE



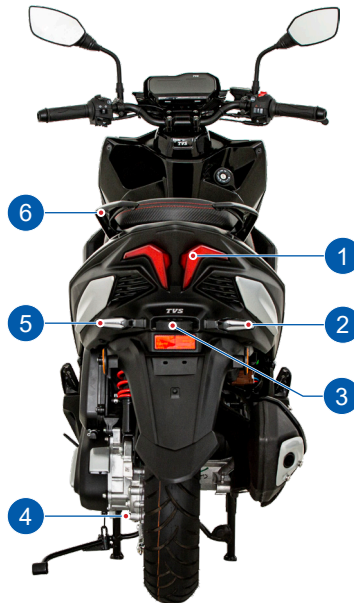
1. Seat assembly
2. Reflex reflector R
3. Muffler assembly
4. Gauge oil level
5. Pillion foot rest R
6. Cover front
7. Front wheel axle nut

LOCATION OF PARTS - VEHICLE FRONT & REAR



FRONT

1. Head lamp assembly
2. Position cum turn signal lamp front R
3. Position cum turn signal lamp front L



REAR

1. Tail / brake lamp
2. Turn signal lamp rear R
3. License plate lamp
4. Transmission oil level screw
5. Turn signal lamp rear L
6. Pillion handle

License plates are mandatory accessory will be charged extra

ALL IN ONE LOCK

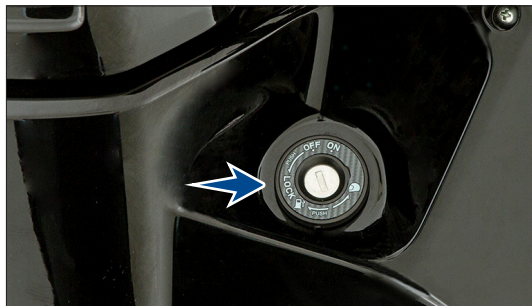
TVS NTORQ 150 comes with an 'All in one lock'. It has five positions. Working of the lock in all the five positions are explained below:

1. 'OFF' position

All the electrical circuits are turned 'OFF' in this position. Engine will not start. Key can be taken out.

2. 'ON' position

In this position, all the electrical circuits are turned 'ON' and the engine can be started now. Key cannot be removed in this position.



The connected instrument cluster and warning lights perform the self-diagnostic cycle once upon activation.

3. Steering 'LOCK' position

TVS NTORQ 150 steering can be locked in both 'left' and 'right' directions.

Turn the handlebar to the 'left' or 'right'. Press the key 'IN' and rotate it to the 'LOCK' position from 'OFF' position. All electrical circuits are deactivated and the steering is locked. The control key can be removed from the lock.

Insert the key into the lock and press the key 'IN' and turn it to 'OFF' or 'ON' position to unlock the steering.

Note

When you switch on the key, the pump priming noise may be heard which is normal. Avoid frequent 'SWITCH-OFF & ON' of the ignition key to avoid unnecessary run of fuel pump.

The speedometer back illumination, front combination lamp L & R, tail lamp and license plate lamp glow automatically once the ignition key is turned 'ON' without activating any other switches.

Warning

Never attempt to move the vehicle when the steering is locked, you may lose balance.

Caution

Leaving the ignition cum steering lock in 'ON' position for a prolonged time will drain the battery when the vehicle is not in use. Switch 'OFF' and take the control key out when the vehicle is not in use.

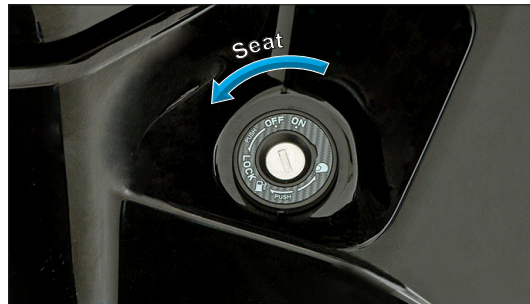
Always lock the steering while parking for safety.

4. Seat 'Unlock' position

Seat lock operation is inbuilt in 'All in one lock' of TVS NTORQ 150.

To open the seat, keep the key in 'OFF' position and turn it to anticlockwise direction without pushing the key 'IN'.

To lock the seat again, press the seat at the rear end to its position till a 'Click' sound is heard.



5. Fuel tank cap 'Unlock' position

Fuel tank cap lock operation is inbuilt in 'All in one lock' of TVS NTORQ 150. To open the fuel tank cap, keep the key in 'OFF' position, push the key 'IN' and turn it to clockwise direction. The tank cap opens automatically.

To close the fuel tank cap, press the cap at the front end to its position until a 'Click' sound is heard.



Note

While closing the fuel tank cap press at the dotted mark area of the cap for easy closing.

HANDLE BAR LEFT SIDE

1. Info switch

Info switch 'i' is used to accept / decline an incoming call.

2. Horn switch

Press the switch '📢' to operate the horn.

3. Turn signal lamp switch

Slide the turn signal lamp switch to left '↶' or right side '↷' to operate respective turn signal lamps (LH / RH). Press the center button of the switch to turn 'OFF'.



Warning




Always use the appropriate turn signal lamps when you intend to change lanes or take turns. Be sure to switch it 'OFF' after negotiating the lanes or turns.

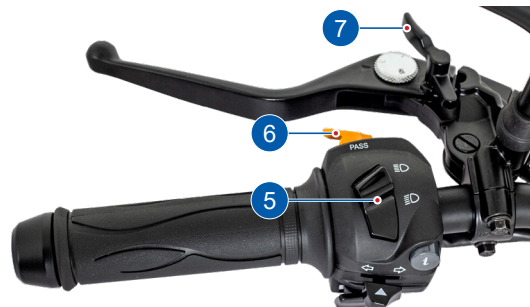
4. Adjustable left hand brake lever

The rear brake is applied while squeezing the adjustable left-hand brake lever towards the handle grip. The brake lamp glows on application of the rear brake.

5. Switch beam control


The headlamp automatically turns on in either 'Low Beam' or 'High Beam' based on the position of the switch beam control once the engine is started. The headlamp beam changes accordingly, depending on the selected position of the switch beam control.

- Press the switch towards '  ' to operate headlamp in 'low beam'.
- Press the switch towards '  ' to operate headlamp in 'high beam'.
 - When the headlamp is glowing in high beam, the high beam indicator '  ' of the instrument cluster glows along with it.



6. Switch pass-by

Press the switch intermittently towards you to flash the headlamp (pass-by).

- Flashing the headlamp high beam provides signal to the vehicles coming from opposite direction during overtakes.
- If the high beam is flashed, the high beam indicator '  ' also flashes along with it.

Warning

Use appropriate head lamp beam 'high / low' as per the traffic and road conditions for your safety and avoid inconvenience to other riders.

7. Rear brake lock lever

The rear brake lock prevents the vehicle from rolling when parked on a side stand, stopped on a slope, or while waiting at a long traffic signal, offering added safety.

To engage the rear brake lock, press the brake lever halfway towards the grip and hold it, then push the rear brake lock fully and slowly release the brake lever.

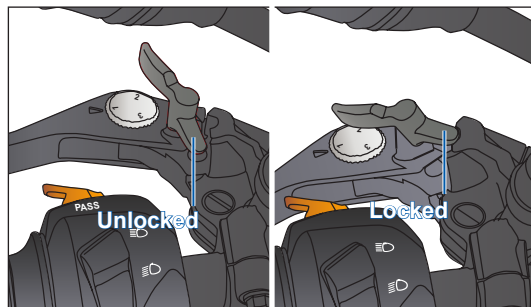
Make sure the brake is securely locked. To release, simply press the brake lever further this will automatically disengage the brake lock.

Warning

Ensure to release the brake lock before riding the vehicle.

Note

Use adjustable knobs in left hand brake lever to suit your finger reach to the lever. Refer page no. 85 for adjustment procedure.



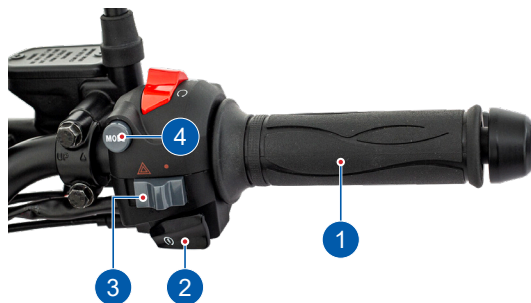
HANDLE BAR RIGHT SIDE

1. Throttle grip

Engine speed is controlled by the rotation of the throttle grip. Twist it towards you to increase the engine speed and twist it away from you or release it to decrease the engine speed.

2. Electric start switch

To start the engine electrically, ensure the side stand is retracted, keep the engine kill switch is in 'O' position, apply any one the brake and press the switch 'E' and release.



3. Hazard switch

- Slide the switch to '△' position to turn 'ON' the hazard lamps and to '●' position to turn 'OFF'.
 - If the hazard indication is turned 'ON' while the turn signal indicators are active, the turn signal indicators will be suspended temporarily.
 - Turn signal indication will resume automatically once the hazard lamps are turned 'OFF' (if they were active before hazard lamp 'ON').
 - On activation of hazard lamps, both left and right turn signal indicators '← →' flashes.

4. Mode switch

Press the mode switch to switch between 'STREET' and 'RACE' modes (refer page no. 40 for further details).

Note

Hazard lamps can be switched 'ON / OFF' only by means of hazard switch.

Avoid using hazard lamps while the engine is turned 'OFF' for prolonged time to avoid battery drain.



5. Engine kill switch

TVS NTORQ 150 is provided with an engine kill switch. The engine kill switch is used to switch off '⊗' the engine but to keep other DC system active. The ignition circuit is disabled, preventing the engine from being started. To restart the engine, return the switch to the '⊙' position.

6. Adjustable right hand brake lever

The right hand brake lever controls a hydraulic circuit of the brake system. While squeezing brake lever the hydraulic circuit operates the front brake system and applies the brake. The brake lamp glows on application of front brake.

Warning

Do not operate the kill switch when riding else the engine will get 'OFF' and the vehicle will loose the power. This switch is mainly intended for use in emergencies when you need to stop the engine quickly.

Note

Use adjustable knobs in left hand brake lever to suit your finger reach to the lever. Refer page no. 85 for adjustment procedure.

CONNECTED INSTRUMENT CLUSTER

1) Key features

Your TVS NTORQ 150 is provided with a 2.8 inch TFT display paired with 2.5 inch LCD display.

- It has an advanced UI / UX design for TFT screen.
- The LCD display is provided to show speed, ODO, trip details and ride stats.
- The TFT screen has 2 different ride modes which give you a rich user experience.
- Enhanced connectivity with Bluetooth 5.0.
- Traction control, iGO assist and Idle Start Stop (ISS) features.

- Profile image, caller image, social media notification.
- Accept or decline incoming call using handle-bar switches.

Warning

Risk of accident through the use of integrated information systems and communication devices during the journey.

Operate these systems or devices only if the traffic situation allows. If necessary, stop and operate the system or devices at a standstill.



2) Warning and Tell-Tale Indicators

Instrument cluster will be activated once the 'ignition lock' is turned ON.

All segments and tell-tale indicators glow for 2 seconds on activation of instrument cluster for checking and ensuring the proper working of segments and indicators.



a) Turn signal indicator RH

d) EMS malfunction indicator

g) Turn signal indicator LH

b) High beam indicator

e) Traction control indicator

c) ISG malfunction indicator

f) ABS malfunction indicator

2a. Turn signal indicator right ()

Flashes when the 'right' side turn signal indication is activated.

2b. High beam indicator ()

Glow when the head lamp is activated in high beam or pass-by condition.

2c. ISG malfunction indicator ()

ISG malfunction indicator will be turned 'ON' when the ISG detects a fault in the system. If the ISG malfunction indicator is glowing continually after the self check of the connected instrument cluster, immediately contact the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

2d. EMS malfunction indicator - MIL ()

MIL will 'Blink' when the ECU detects misfire and will be 'ON' when the ECU detects any fault in the system.

If the malfunction indicator lamp is glowing continuously or blinking continuously when the engine is started, immediately contact the nearest TVS Motor Company Authorised Main Dealer or Authorised Dealer.

2e. Traction control indicator ()

Traction control indicator glows when there is a traction control fault in the vehicle or the traction control is disabled by rider. The traction control indicator blinks when the traction control is initializing and when it is active (refer page no. 47 for more details).

2f. ABS malfunction indicator ()

ABS warning lamp blinks when the ignition key is turned 'ON' and speedometer performing self check. This lamp goes 'OFF' once the vehicle reaches 5 km/h speed and above.

If this lamp glows continuously then have your vehicle checked at TVS Motor Company Authorised Main Dealer / Authorised Dealer (refer page no. 16 for more details).

2g. Turn signal indicator left ()

Flashes when the 'left' side turn signal indication is activated.

3) Mode and Set buttons

MODE button is used to change the connected instrument cluster's display screens. i.e., from home screen to Bluetooth pairing on long press, Bluetooth pairing screen to setting screen on long press.

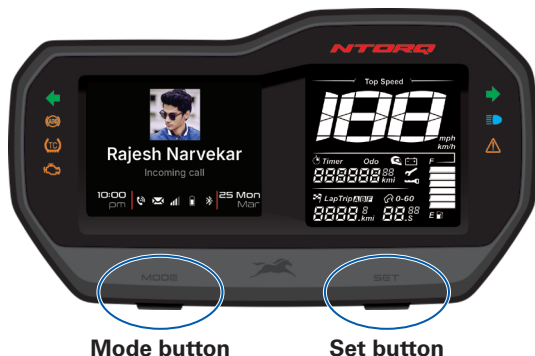
In setting screen, short press the MODE button to scroll down the menu options. Short press the SET button to select.

In Street mode, short press the MODE button to change trips between Trip A and Trip B.

In Race mode, short press the MODE button to see ride stats such as 'Last lap info' and 'Best lap info'.

To change mode, press MODE button on the right hand side of the handle bar.

To accept or decline call, use INFO button on left side of the handle bar.

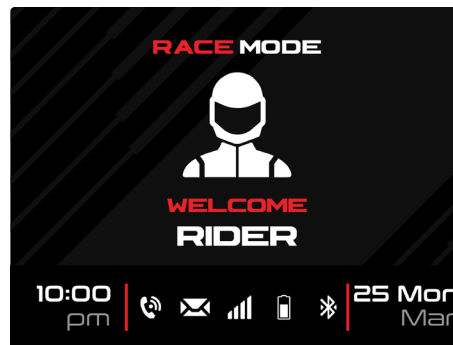
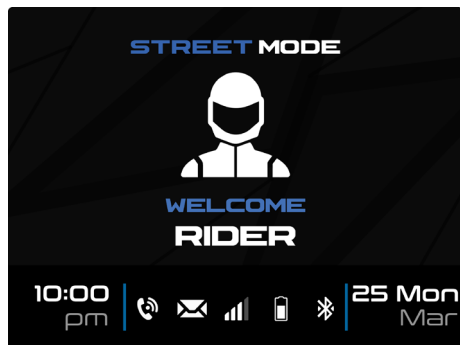


4) Ride modes

TVS NTOUQ 150's connected instrument cluster offers you to choose two different ride modes

- a. Street mode
 - b. Race mode
- 'Street Mode' is suitable for city, traffic and increase fuel efficiency.
 - 'Race Mode' is suitable for highway as it slightly gives more power and torque.

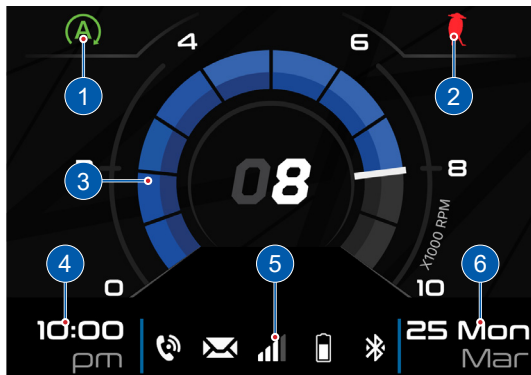
You can change the ride modes on-the-go by pressing the Mode button on the handle bar right side.



4a. Street mode

In Street mode, there is an intro animation while entering. The following features will be displayed on the connected instrument cluster's TFT display :

- 4a1. 'TVS intelliGO'
- 4a2. Side stand warning indicator
- 4a3. Dynamic engine rpm indicator
- 4a4. Digital clock
- 4a5. Smart phone info
- 4a6. Date



4a1. 'TVS intelliGO'

Fuel is consumed unnecessarily when the engine is in idling (eg. In traffic signals) as there is no useful output to the wheel. It contributes to emission and decreases mileage of the vehicle considerably.

To overcome this issue 'TVS intelliGO' system is introduced in TVS NTORQ 150 to automatically shut down the engine when it is kept idling for long and restart from stop condition by simply pressing the Brake and giving Throttle. The vehicle also can be restarted using 'Electric start' if required. This system works only when the vehicle is in 'STREET' mode. We recommend to use of this system to improve the fuel economy and to reduce emission.

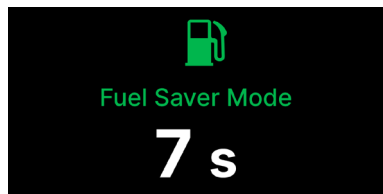
Activation of 'TVS intelliGO' system :

'TVS intelliGO' system gets activated when the following requirements are satisfied,

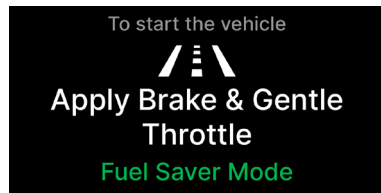
- The scooter is in 'STREET' mode.
- Engine is warmed up and
- When the vehicle speed is more than 5 km/h.

When the vehicle has met the above conditions, the 'TVS IntelliGO' system gets enabled and the IntelliGO indicator 'A' in the speedometer glows and informs you that the vehicle has entered 'IntelliGO' loop and the engine will stop automatically at upcoming vehicle idling condition.

Once the vehicle enters the idling condition, the instrument cluster shows timer in seconds left to turn the engine 'OFF' and the engine stops after user set time. The IntelliGO indicator 'A' blinks during the count down.



The vehicle stopped by 'TVS IntelliGO' system can be restarted at any time within 5 mins from the stop of the vehicle by IntelliGO feature in a simple way of applying Brake and Throttle blip.



Deactivation of 'IntelliGO' system :

- ISS disabled when the vehicle is in 'RACE' mode.
- If the ISG malfunction indicator or MIL indicator is 'ON' then the IntelliGO system will not work not get activated.
- If vehicle is not restarted within 5 mins from idle stop, then IntelliGO will be deactivated.

Note

In STREET mode the ISS features will be always in ON condition. But in RACE mode this feature will be in OFF condition by default.

- If there is 5 unsuccessful start of the vehicle either by electric start or by intelliGO restart method in one ignition key 'ON' cycle then the intelliGO will not get activated.

Prolonged idling :

- When vehicle is in idling with the engine temperature high enough to maintain stable engine idling rpm and the intelliGO function is turned 'ON', then the intelliGO will be activated
- When 'TVS intelliGO' is enabled, the instrument cluster shows timer in seconds left to turn the engine 'OFF' and the engine stops after user set time.
- IntelliGO lamp will glow after vehicle has stopped due to this feature. By applying Brake and Throttle blip the engine can be restarted again.

Note

Ensure that the brake free play is adjusted and it is within the limit for the proper working of 'TVS intelliGO'.

Vehicle can be started at any point of time using 'electric start' when the engine is stall condition and the ignition key is in 'ON' condition. The 'TVS intelliGO' switch can be activated / deactivated at any point of time.

4a2. Side stand warning indicator ()

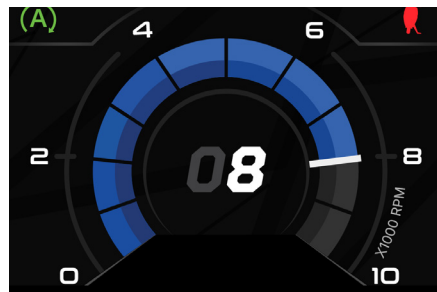
The side stand warning indicator turns 'ON' to alert you whenever the vehicle's side stand is deployed (vehicle parked condition).

Note

If the side stand is deployed, the vehicle will not start. Retract the side stand to start the vehicle.

If there is an error in the side stand sensor the indication will not blink and the vehicle will not start. In such a condition, please visit the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

4a3. Dynamic engine rpm indicator



Digital band indicates the engine rpm in multiples of 1000 rpm.

Digital bands are indicated in blue and red band based on the engine coolant temperature. Refer below table for details.

4a4. Digital clock

Indicates the time in 12 hour format (AM or PM).

10:00
pm

4a5. Smart phone info

'Smart phone info' displays your smart phone's Bluetooth, battery level, network providers signal strength, missed call and message alerts when the instrument cluster is connected via Bluetooth.



Note

If the battery is disconnected and reconnected during service. You may need to reset the time as explained in page no. 48.

4a6. Date

Indicates the date in day and month format.

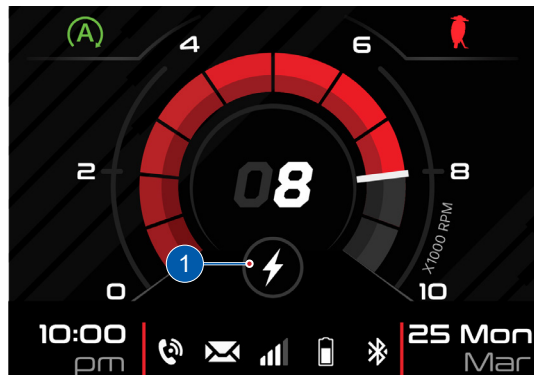
25 Mon
Mar

4b. Race mode

In Race mode, there is an intro animation while entering and the following feature will be displayed on the connected instrument cluster's TFT display in addition to the features explained in Street mode :

4b1. iGo Assist

iGO Assist function enhances the engine's power during sudden acceleration, thereby reducing the strain on the engine and consequently improving its longevity and performance.



This system will be automatically activated when the following conditions are fulfilled :

- When the vehicle is in 'RACE' mode
- The vehicles battery voltage is more than 12.5 Volts and the
- The engine temperature exceeds approximately 55° C.

How to Activate the iGO Assist

- Once iGO Assist is available - by giving sudden throttle acceleration, this iGO Assist can be activated, and it is indicated in speedometer as shown :



How to deactivate from iGO Assist

- While using the iGO Assist, if the throttle is decelerated or the vehicle speed exceeds 80 km/h - at these conditions, system will get out from iGO Assist and enters into charging period.
- After using the iGO Assist for a certain period, the system will automatically enter charging period.

Once the charging period is completed, iGO Assist will be available and the same will be indicated in the speedometer.

Note

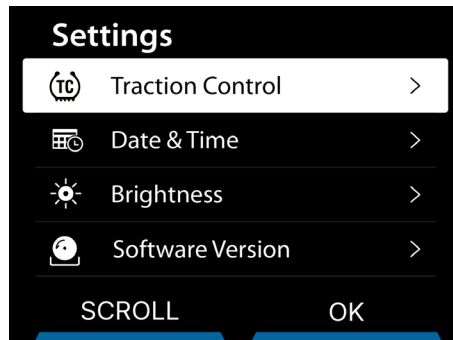
If any malfunction is displayed in the speedometer, please visit nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

5) Menu (Settings)

The menu items of speedometer can be obtained by pressing the MODE button of the instrument cluster for more than 5 secs. Refer page no. 39 details. On entering the menu screen, the following menu items will be displayed as shown.

- a. Traction Control
- b. Date & Time
- c. Brightness
- d. Software Version

You can navigate through the menus using the MODE button of the cluster.



Similarly, you can use the SET button to select the required option.

Note

Once the ignition is turned 'ON', the instrument cluster enters directly to the BT pairing mode if the cluster is not paired with any of the smartphones earlier. Now, press and hold the MODE button for a few seconds to enter the menu settings.

If the cluster is already paired, the cluster directly enters to the default mode. Now, long press the MODE button and enter into 'BT pairing mode' first and then press the MODE button again to enter the menu settings.

5a. Traction Control

To enter the 'Traction Control' setting, keep the vehicle stationary and switch 'ON' the ignition. After the self-check, navigate to 'Traction Control' in menu and press the MODE button.

Navigate to the 'ON' or 'OFF' setting of the 'Traction Control' menu and press the SET button to select the necessary option.

- The Traction control option is enabled on the cluster when the ABS sends the Traction Control activated signal.



- Once its activated, it can be either enabled or disabled by following above instruction.
- Based on your preference and road scenario, you can either turn 'ON' or 'OFF' the Traction control.

Note

Traction control setting option will be enabled only after receiving the Traction control activated signal from the ABS.

Key functions of Traction control

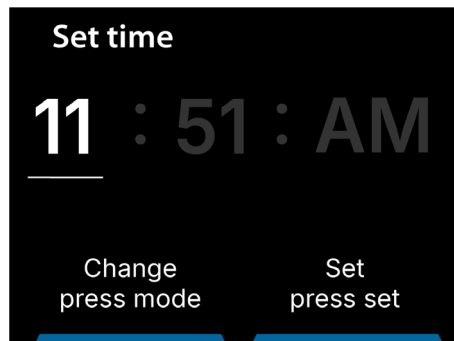
- Control engine torque and ensure optimal driving force on the road.
- Prevent the rear wheel from spinning during acceleration, and counteract the front wheel from leaving the ground.
- Regulate the maximum engine torque, when the rear wheel spins during vigorous acceleration.
- Best acceleration with keeping stability by proper wheel longitudinal slip control at rear.
- Mitigation for uncontrollable large Wheelie by engine torque down.

5b. Date & Time

To access the 'Date & Time' settings, ensure the vehicle is stationary and the ignition is switched ON. Once the self-check is complete, navigate to 'Date & Time' in the menu and press the MODE button to enter the setting.

Inside the 'Date & Time' menu :

- A short press of the MODE button allows you to set the clock time.
- A long press of the MODE button takes you to the date setting.

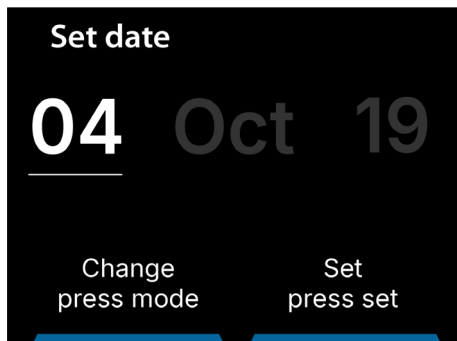


To Set the Clock :

- Inside the 'Date & Time' menu, short press the MODE button to begin clock setting.
- The hour digit will be highlighted. Press the SET button to increase the hour.
- Press the MODE button again to move to the minutes or AM/PM selection.
- Use the SET button to adjust the minutes or toggle between AM/PM.
- Once the clock is set, long press the MODE button to exit clock setting and proceed to date setting.

To Set the Date :

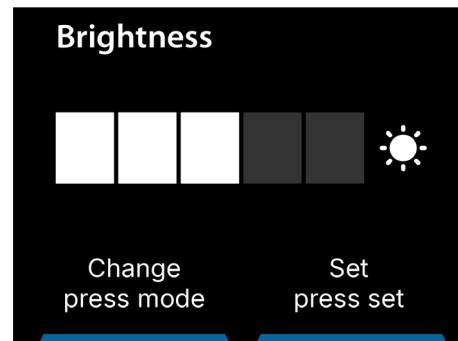
- You can enter date setting either : directly from the 'Date & Time' menu by long pressing the MODE button, or After completing the clock setting.
- The year field will be highlighted first.
- Press the SET button to increase the year.
- Press the MODE button again to move to the month or day fields.
- Use the SET button to adjust the month or day.
- Once the date is set, long press the MODE button to exit the date setting.



5c. Brightness

The brightness of the connected instrument cluster can be adjusted. To adjust the brightness, ensure the vehicle is stationary and the ignition is switched ON. Once the self-check is complete, navigate to 'Brightness' in the menu and press the MODE button to enter the setting.

- Press the SET button to enter day brightness option.
- Once again press the SET button to increase or decrease the brightness.

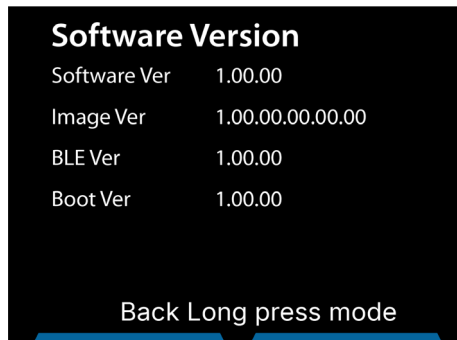


- Again press the MODE button to set and exit the brightness setting.

5d. Software Version

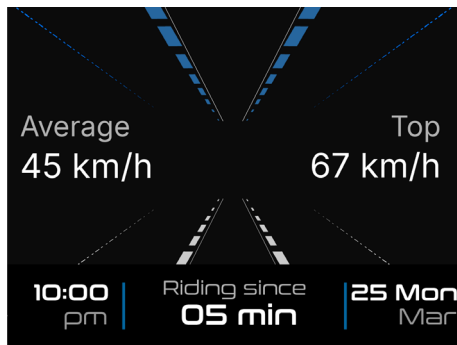
The software version of the connected instrument cluster can be viewed. To view the software version, ensure the vehicle is stationary and the ignition is switched ON.

- Once the self-check is complete, navigate to 'Software Version' in the menu and press the SET button to enter the information option.
- Long press mode to exit.

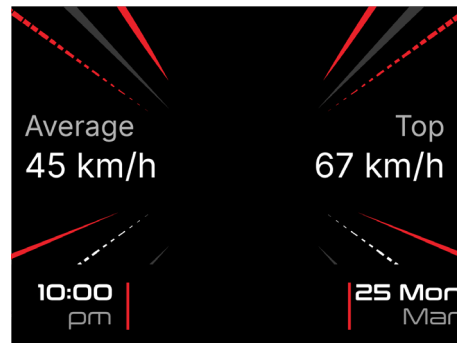


6) Traffic screens

You will be able to see the 'Average speed' and 'Top Speed' of the current ride when your vehicle is stopped in traffic while the vehicle is not connected via Bluetooth.



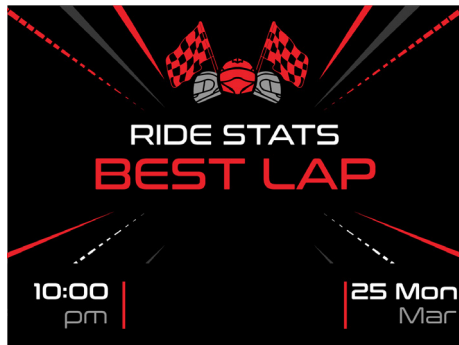
Street Mode



Race Mode

7) Ride stats

- You will be able to see Ride stats such as Top speed, lap time of Last ride.
- The Data will be displayed on the LCD display of the instrument cluster.
- Overall best ride will also be saved and shown on display.
- You can navigate to that screen by pressing MODE button on instrument cluster.
- You can reset best stats by long pressing MODE and SET button for 10 secs.

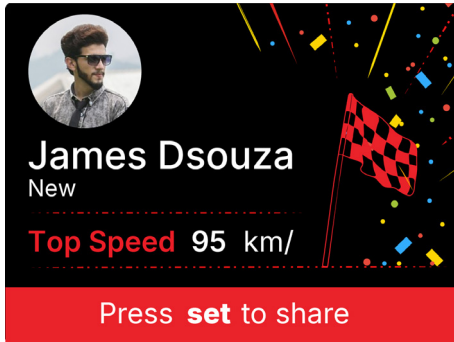


Note

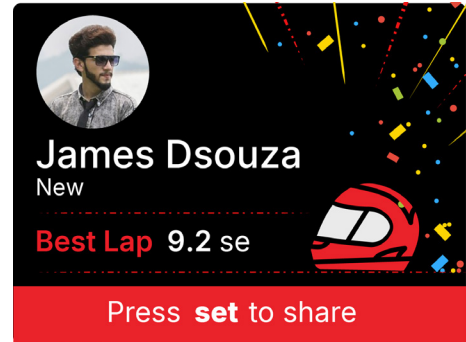
Ride stats feature is available only in the RACE mode of the vehicle.

8) Celebration screens

You will be congratulated when you achieves Best Lap time and Top Speed as shown below :



Top speed achieved

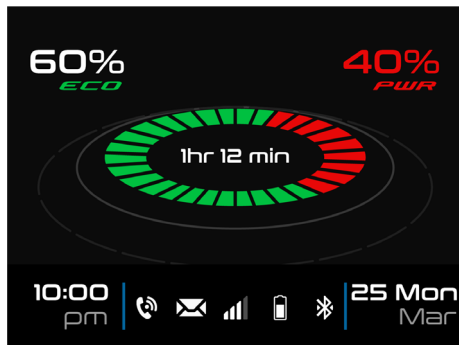


Best lap time achieved

9) Information, alert and warning

ECO - PWR %

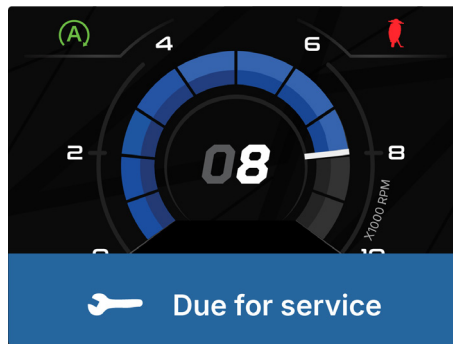
This function shows the percentage of distance that the vehicle has been driven in 'economy' and 'power' mode with respect to ride pattern and duration of travel.



Service reminder

If the service is due, whenever the ignition is turned 'ON', a warning message 'Due for service' will be displayed in the TFT display as shown. Get the vehicle serviced at TVS Motor Company Authorised Main Dealer / Authorised Dealer.


An icon with spanner symbol '🔧' also blinks for 10 seconds after the self-check cycle of connected instrument cluster at the LCD display area and continue to glow till the vehicle is serviced and the reminder is reset.

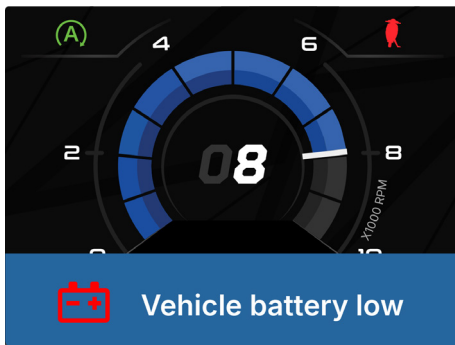


Note

Service reminder indicator lamp glows before a day of service due date.

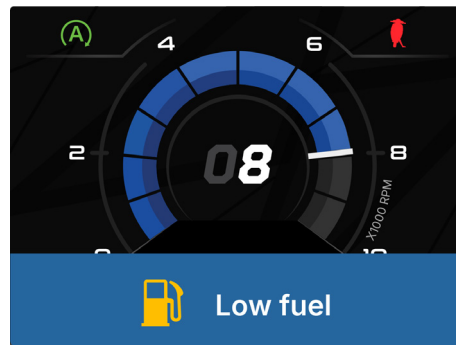
Low battery warning

When the battery charge of the vehicle is too low a warning message 'vehicle battery low' will be displayed in TFT display of the instrument cluster. Get the battery checked at TVS Motor Company Authorised Main Dealer / Authorised Dealer. An icon with battery symbol '  ' also will be glowing on the LCD display of the connected instrument cluster.



Low fuel warning

When the fuel level goes below the reserve level a warning message 'Low fuel' will be displayed continuously in the connected instrument cluster's TFT display for your attention.

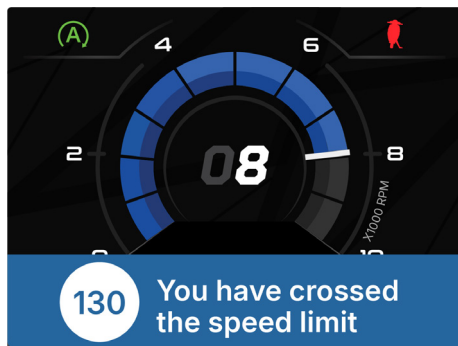


Note

When the low fuel warning message appears, fill the fuel immediately to avoid engine switch 'OFF' / damage to fuel pump which leads to replacement of pump without warranty.

Overspeed alert

The 'Overspeed alert' features allows you to set the speed alert of your vehicle. Overspeed Alert will be displayed when you cross the set speed threshold. You can adjust the overspeed threshold through Mobile app. but by default it is set at 80 km/h.



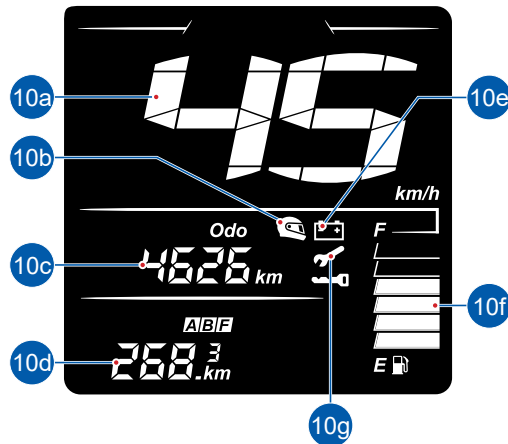
Note

The default speed alert will be set as 80 km/h. The over speed indication can be set between 50 to 160 km/h in intervals of 10 km/h.

10) LCD display

The following features will be displayed on the connected instrument cluster's LCD display when the vehicle is in Street mode :

- | | |
|---------------------------------|----------------------|
| 10a. Speedometer | 10b. Helmet icon |
| 10c. Odo meter | 10d. Trip A, B and F |
| 10e. Low battery indicator | 10f. Fuel gauge |
| 10g. Service reminder indicator | |



10a. Speedometer

Indicates the vehicle speed in kilometer per hour by default when the ignition is turned 'ON'.



10b. Helmet icon

With every ignition 'ON', helmet icon '📞' blinks for 10 seconds to remind you to wear a helmet.

Note

Helmet icon indicator works in both the modes of connected instrument cluster.

10c. Odo meter

Odometer registers the total distance covered by the vehicle in kilometer.



10d. Trip A, B and F

Trip meter indicates the trip distance traveled in kilometer. The digit after the dot mark denotes one tenth of a kilometer.



Provision is provided for the users to measure two different distances as per their convenience. In Street mode, 'TRIP A' will be displayed by default. Press mode button once to enter 'TRIP B'. To reset any of the trips (A or B), press the 'SET' button more than 3 seconds while display is in the respective trip and when the vehicle is in static condition.

Trip F



This function shows the distance traveled after the 'Low fuel' message displayed in the TFT display. The display switches automatically to 'TRIP F' once the low fuel message displayed and starts counting from 0.0 km.

If the fuel level remains in minimum safe (reserve) level, the reading will be saved even after the ignition 'OFF'.

The 'Trip F' meter stops counting and gets cleared automatically once the fuel is filled above minimum safe (reserve) level which is indicated by at-least 2 bars in the fuel gauge. Once 'Trip F' is cleared, Trip A / B display switches 'ON' automatically.

Please remember that the 'Trip F' meter cannot be activated or deactivated manually and can't be reset.

On every ignition 'ON', 'Trip F' meter will get enabled automatically until fuel level raises above minimum safe level. 'Trip A' and 'Trip B' will still be accessed by short pressing the 'MODE' switch but the display will automatically enter 'Trip F' after 5 seconds.

10e. Low battery indicator

An icon with battery symbol '🔋' glows when the battery charge of the vehicle is too low and the message 'Vehicle battery low' will be displayed in TFT display of the instrument cluster.



Vehicle battery low

Get the battery checked at TVS Motor Company Authorised Main Dealer / Authorised Dealer.

10f. Fuel gauge

Digital bars indicates the approximate quantity of fuel available in the fuel tank. There are six bars to indicate the quantity of fuel available in the tank.



All the six bars will be displayed when the fuel in the tank reaches above 5 litres approximately (full tank). When the fuel reaches half tank (3.2 litres approx.) the fuel gauge displays only three bars as shown.



When the fuel reaches minimum safe level (1.2 litres approx.), the last bar of the fuel gauge starts blinking and 'Low fuel' warning message will be displayed on the TFT display of the instrument cluster.

The trip meter turns to 'Trip F' mode starts counting from 0.0 as explained in page no 57.



Low fuel


Note

Fuel level shown is only for reference purpose and users are not encouraged to calculate mileage of the vehicle using the same. If all the fuel level bars of the connected instrument cluster starts blinking and an error message 'Check fuel sensor' displayed in the TFT display, Contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.



Check fuel sensor

10g. Service reminder indicator

If the service is due, whenever the ignition is turned 'ON', a icon with spanner symbol '' blinks for 10 seconds after the self-check cycle of connected instrument cluster and continue to glow till the vehicle is serviced and the reminder is reset.

Get the vehicle serviced at TVS Motor Company Authorised Main Dealer / Authorised Dealer. The message 'Due for service' will be displayed in TFT display.



Due for service

Note

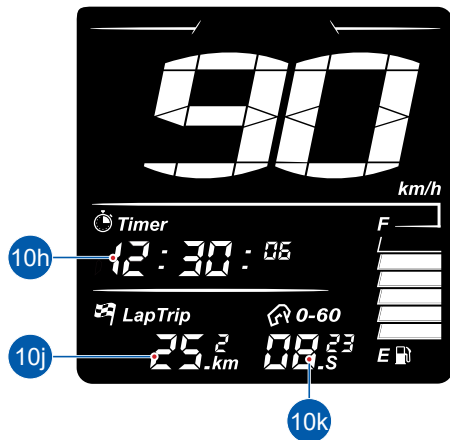
Service reminder works on both the modes of the connected instrument cluster. Service reminder indicator lamp glows before a day of service due date.

When the vehicle is in 'RACE' mode, the following features will be displayed on the connected cluster's LCD display :

10h. Lap timer

10j. Lap distance

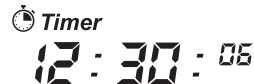
10k. Shortest time indicator




Note

One lap is considered from one ignition 'ON' to 'OFF'.

10h. Lap timer



Lap timer is the total time taken by the vehicle for completing a single lap.

Similar to lap distance, the lap timer also starts once the vehicle speed crosses 2 km/h and stops when the speed goes below 2 km/h indicated by blinking of lap timer '  ' icon. If the speed increases again, the timer continues counting. The lap timer ends when the ignition is turned 'OFF'.

10j. Lap distance



The total distance covered by the vehicle in a particular lap will get captured in 'Lap distance' counter. Once the vehicle speed crosses 2 km/h, the lap distance counter starts counting distance automatically and stops when the speed goes below 2 km/h. If the speed increases again, the counter continues the distance counting. The lap distance counter ends when the ignition is turned 'OFF'.

10k. Shortest time indicator



Shortest time indicator records the minimum time taken to reach 60 km/h from start. The timer starts once the vehicle speed crosses 2 km/h and the time will be displayed on crossing 60 km/h speed.

Note

The value of shortest time indicator disappears automatically if the vehicle speed reduces below 2 km/h.

Shortest time indicator data will be displayed only if the time taken to reach 0 to 60 km/h is less than 15 seconds. If the time taken is more than 15 seconds then the default time (15 seconds) will be displayed.

The values of 'RACE' mode can be reset by pressing 'SET' button for more than 3 seconds in vehicle static condition only.

TVS CONNECT APP



Dedicated smart phone app is available in the Google Play and the Apple store for your 'TVS NTORQ 150' and it can be installed in your Android and Apple smart phones. To access the features of your TVS NTORQ 150's connected TFT instrument cluster like :

- Incoming call alerts in connected instrument cluster.
- Battery status of your smart phone in connected instrument cluster.
- "Do Not Disturb" mode during the ride (applicable only for Android smart phones).
- To send navigational assist instructions inputs to the connected instrument cluster from your smart phone.
- To store Digital documents such as Driving license, RC copy, Aadhar card etc. in TVS Connect App and transfer same in instrument cluster.
- To save the last traveled route.
- To locate the last parked location of your TVS NTORQ 150.



- To know the signal strength of your mobile network in connected instrument cluster.
- To generate and store Ride reports.
- To sync the connected instrument cluster clock with smart phone clock.
- Map mirroring
- Try to avoid use the navigation feature while riding as a safety measure.
- This dedicated mobile app of your TVS NTORQ 150's can be downloaded from the Google Play and the AppStore® by searching the key word 'TVS CONNECT' else by scanning the below QR code..



Android



IOS

Note

This smart phone app is compatible only for the smart phones with Android OS version 8 and above, iOS version 11 and above and the BLUETOOTH version 4.0 and above. Android and Google Play are trademarks of Google LLC. App Store® and iOS are trademark of Apple.

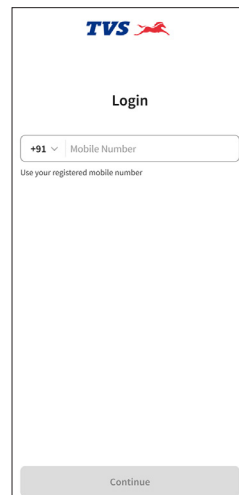
If any issues with connectivity features please approach TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Caution

While using the navigation feature, ensure you do not look at the speedometer for long as it might lead to an accident.

How to login

On opening the **TVS CONNECT** app for the first time you have to login using your mobile number. Then enter the OTP which is received from TVS Motor Company Limited.

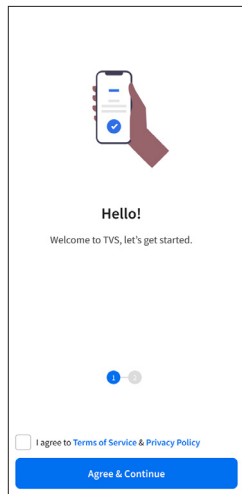


The login screen displays the TVS logo at the top. Below it, the word "Login" is centered. There is a text input field with a dropdown menu showing "+91" and the placeholder text "Mobile Number". Below the input field, it says "Use your registered mobile number". At the bottom, there is a grey "Continue" button.



The verify OTP screen displays the TVS logo at the top. Below it, the text "Verify OTP" is centered. Underneath, it says "OTP has been sent to +91 *****3210". Below that, it says "Please enter your OTP". There are five empty square boxes for entering the OTP digits. At the bottom, it says "Didn't get the OTP? 1:56".

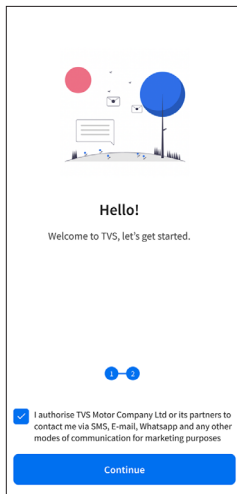
On submitting the OTP. You need to agree to terms of service and privacy policy and click agree and continue. Also, agree and authorise the TVS Motor Company to send communication through social media.



Hello!
Welcome to TVS, let's get started.

☐ I agree to Terms of Service & Privacy Policy

Agree & Continue

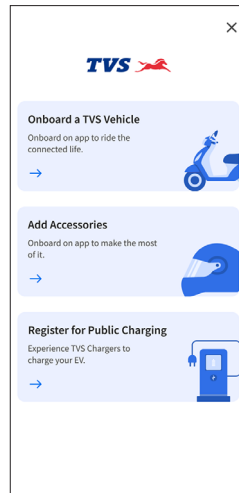


Hello!
Welcome to TVS, let's get started.

☒ I authorise TVS Motor Company Ltd or its partners to contact me via SMS, E-mail, Whatsapp and any other modes of communication for marketing purposes

Continue

Now click onboard a TVS Vehicle to board a new vehicle.

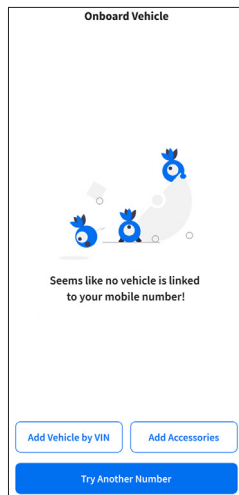
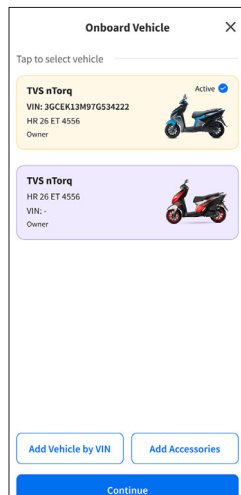


Onboard a TVS Vehicle
Onboard on app to ride the connected life.

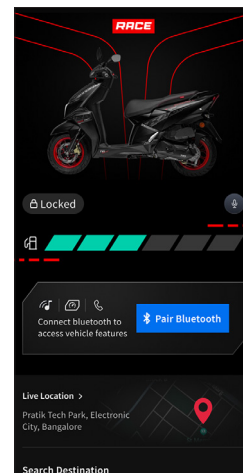
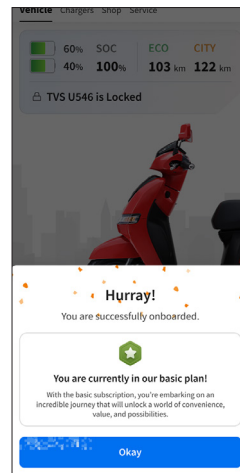
Add Accessories
Onboard on app to make the most of it.

Register for Public Charging
Experience TVS Chargers to charge your EV.

Select your vehicle that need to be linked to your App. If no vehicle linked with your mobile number. A vehicle can be added using VIN / chassis number, of the vehicle.



After successful verification of your chassis number, the Home screen of the app opens.

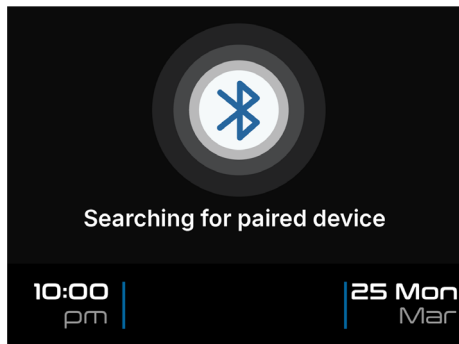


Note

Please remember that the navigation license has to be renewed after 5 years of vehicle purchase and renewal can be done by contacting near by TVS Motor Company Authorised Main Dealer / Authorised Dealer.

First time Bluetooth pairing :

To pair your Android smart phone or iPhone with your TVS NTORQ 150 connected instrument cluster, via Bluetooth, for the first time :

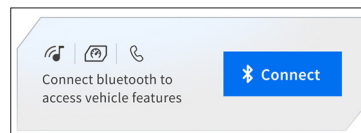


Note

Once the ignition is turned 'ON', the instrument cluster enters directly to the BT pairing mode if the cluster is not paired with any of the smartphones earlier.

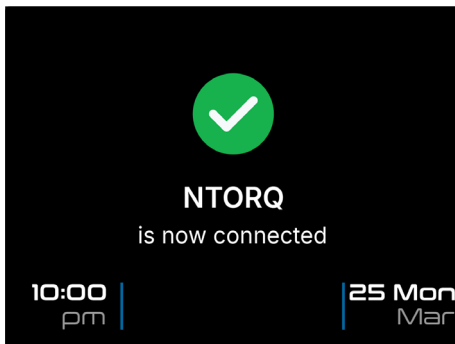
If the cluster is already paired, the cluster directly enters to the default mode. Now, long press the MODE button and enter into 'BT pairing mode'.

- In order to pair device, keep the vehicle stationary and switch 'ON' the ignition.
- The speedometer enters directly to 'BT pairing mode' if the speedometer is not connected with any of the smartphones earlier. Else, long press the MODE button to enter 'BT pairing mode'.
- Open the **TVS Connect** app and press 'CONNECT' tab, ensure the smart phone is near to the vehicle.



- The app searches for all Bluetooth devices near by and displays the list of devices available.
- The connected TFT instrument cluster Bluetooth name is prefixed by TVSNT and followed by alphanumeric digits. Ex : 'TVSNT0000000'.
- Now, select the 'TVSNT0000000' in app to initiate the pairing process.

- On pairing, connected TFT instrument cluster displays 'NTORQ is now connected' message in the TFT display.



- Once the device is paired the Bluetooth '⌘' icon, phone's battery '■' icon, call notification '☎' icon, message notification '✉' icon and signal strength '📶' icons will be displayed on connected TFT instrument cluster.

Note

During the course of pairing process, if there is any occurrence of error, the connected instrument cluster should be turned 'OFF' and 'ON', and the application also need to be restarted.

Please remember that, all the smart phones are not compatible for pairing with the TVS Ntorq 150s connected TFT instrument cluster.

During the search of Bluetooth devices in app, if the vehicle connected instrument cluster's Bluetooth device ID is not visible, try for one or two more iterations.

In your scooter only five devices can be added. To add a 6th device, delete any one paired device and try pairing a new device.

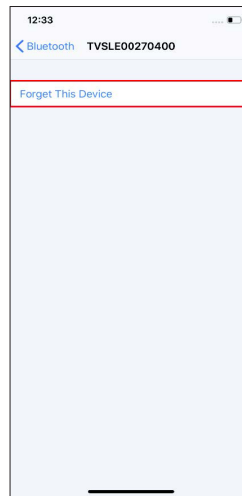
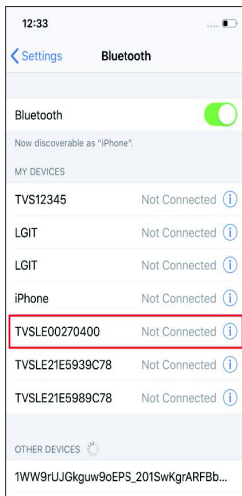
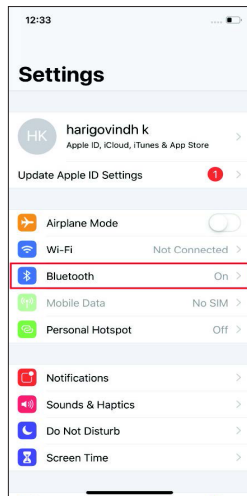
Only one iPhone can be auto-paired with a single instrument cluster at a time. If the user need to connect multiple iPhones with the single instrument cluster, the previous connected iPhone has to be forgotten by clicking, 'Forget This Device' from Bluetooth settings in the iPhone.

If the vehicle battery is reset or fuse is blown, then too 'Forget This Device' from Bluetooth settings in the iPhone has to be done.

Steps to 'Forget This Device' in iPhone :

If the user needs to connect multiple iPhones with the single instrument cluster, the previous iPhone has to be forgotten using 'Forget This Device' from Bluetooth settings in the following manner :

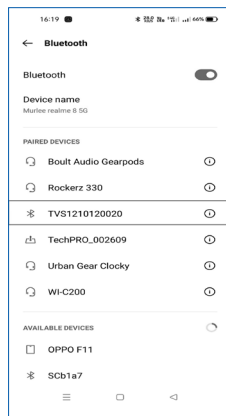
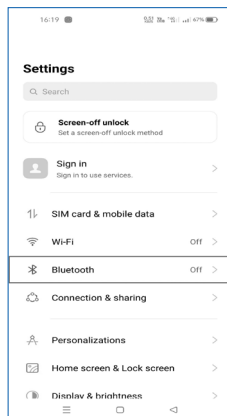
- In the previous connected iPhone, open the SETTINGS -> BLUETOOTH.
- Select the instrument cluster, which was connected previously.
- Click on the 'Forget this device'.



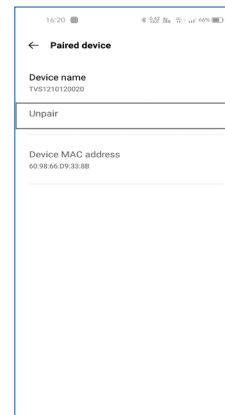
Steps to 'unpair' in Android phones :

Similarly, if the user has any issue in auto pairing the existing paired Android smart phone or to connect multiple Android smart phones with the single instrument cluster, the previous paired Android smart phone has to be unpaired. To unpair an already paired smart phone:

1. In the previous connected Android smart phone, open the SETTINGS -> BLUETOOTH tab.



2. Select the speedometer which was connected previously and click on the 'Unpair' tab.



Auto pairing

Once the first time pairing is done between vehicle's connected TFT instrument cluster and your smart phone, the phone will automatically connect with the vehicle when the following conditions are met :

1. Vehicle is switched 'ON' and vehicle is near to the smart phone.
2. Smart phone's Bluetooth is turned 'ON'.
3. First time pairing is ensured.
4. In case of iPhone, the 'TVS CONNECT' app should be open or be open in background for auto-pairing to happen.

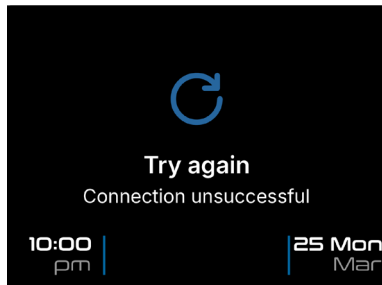


Every time auto-pairing happens, app will open automatically and connect with the Instrument cluster. The connected instrument cluster's TFT display shows 'NTORQ is now connected'.

If your smart phone is disconnected from the vehicle's instrument cluster then, 'Bluetooth disconnected Connect again' message will be displayed on the connected instrument cluster's TFT display.



If your smart phone is connection is unsuccessful from the vehicle's instrument cluster then, 'Try again Connection unsuccessful' message will be displayed on the connected instrument cluster's TFT display.



Note

If the phone enters battery saver mode, auto-pairing might not happen. It takes maximum of five minutes for auto-pairing and it can happen in vehicle running or engine at idling or engine off condition.

Auto-pairing happens only if the application is locked in the RAM in multitasking screen of the phone which has customized OS (Ex : MI, Vivo etc.)

In case of Android phones with Android OS version above 8.0, for App to work seamlessly, any battery optimization setting to be removed in the TVS Connect App and GPS shall be allowed to run in background in high accuracy mode.

Even if your phone's Bluetooth is already paired to other gadgets like smart watch, health band or helmet, the auto-pairing works with your TVS NTORQ 150's connected instrument cluster.

If the application unfortunately stops due to unforeseen circumstances, close and reopen the application and do the manual pairing for the first time, then auto pairing will happen subsequently.

For first time pairing, logout from the app, login again with your login credential and press 'CONNECT' tab.

- Once the connected instrument cluster of your TVS Ntorq 150 is connected with your smart phone, the Bluetooth icon, phone's battery icon, call notification, message notification and signal strength icons will be displayed on connected TFT instrument cluster as shown earlier.

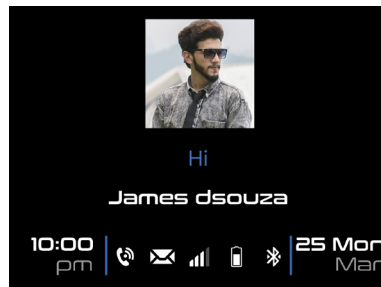
Note

Incase multiple SIM cards are used in smart phone, by default, SIM 1's network provider's signal strength is shown in the display of connected instrument cluster.

Signal strength displayed in connected instrument cluster might vary from the display in smart phone as the former is referred from telephonic standards.

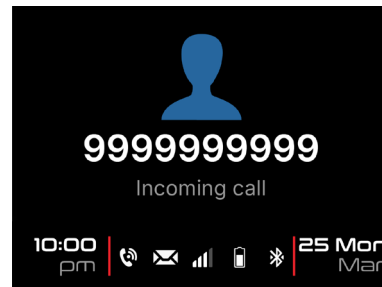
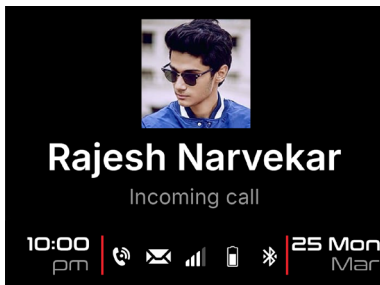
Profile image

You will be able to see Profile picture which you has set on the TVS connect app when the cluster is connected via Bluetooth.



Incoming call alert display

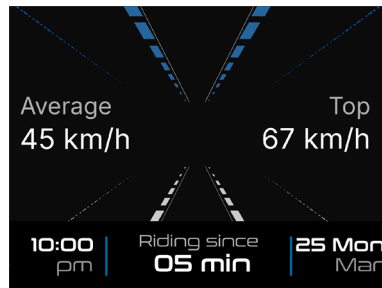
The connected instrument cluster's TFT will display the incoming calls alerts from the smart phone via Bluetooth. Ex. 'Rajesh Narvekar incoming call', will be displayed if the contact is stored in the smart phone's otherwise number will be displayed. Ex. '9999999999 incoming call'.



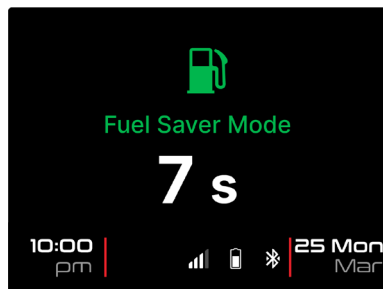
Traffic screens

When the vehicle is stopped at traffic signal or any stop, the connected instrument cluster's TFT display switch between traffic screens as shown bellow.

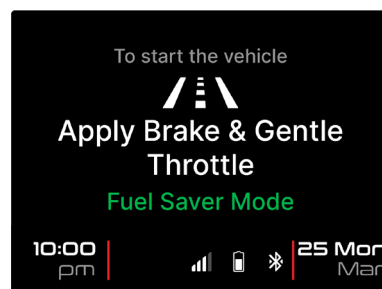
1. ISS countdown
2. Overview screen
3. ISS feature screen
4. Social media notification present in connected mobile device
5. Current weather information
6. On-going cricket match



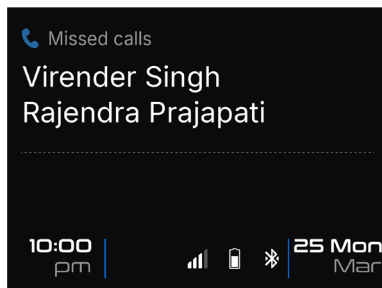
Overview screen



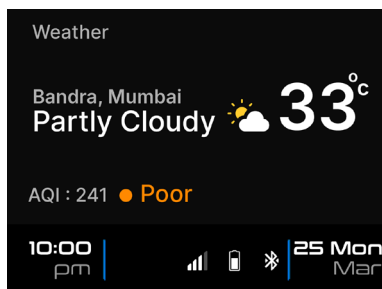
ISS countdown



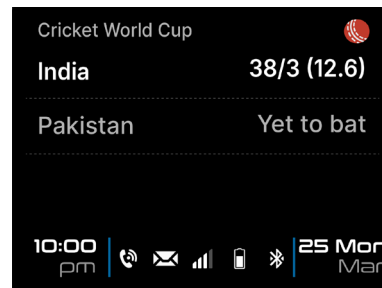
ISS feature screen



Social media notification



Weather information



Cricket match score

Note

Each screens will be in displayed for 55 seconds in loop.

Weather, cricket news etc. will only be available when the cluster is connected to your mobile with Internet connection, standard data charges will apply. If no Internet connection or poor connection respective error message will be displayed in TFT display of the cluster.

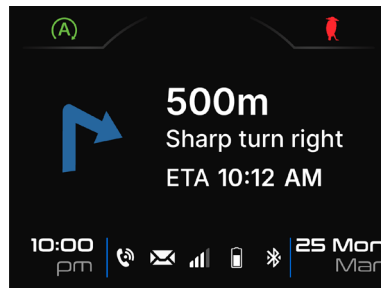
Any of these features can be disabled and enabled by using TVS Connect app's setting options tab.

Warning

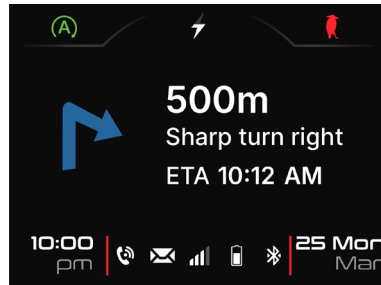
TVS Motor Company Limited does not recommend usage of any type of Mobile Hand Held Devices, and applications / features whether installed or associated with the vehicle which deprives the rider's attention and focus while riding the Two Wheeler. The customers and riders are strictly advised to understand the applicable laws, road safety Rules and the local laws on usage of electronic devices while operating the vehicle. Usage of any Mobile or hand held devices, and / or applications / features while riding the vehicle is on move is totally at customer's / rider's risk. The product and features have technical limitations and are for general overview only.

Navigation

- When user starts Navigation on the TVS connect app.
- You will be able to see Navigation turn-by-turn (TBT) information on the TFT instrument cluster.
- Navigation Pictogram, Distance to next Maneuver, ETA, Total time to reach distance, Total distance to reach Distance, Current road name will be displayed on TFT instrument cluster.



Street mode



Race mode

Mobile phones can be connected with vehicle instrument cluster using Bluetooth, which helps you to know about your ride data and many other functions. Once Bluetooth connection is established between instrument cluster and mobile phone, Bluetooth symbol will glow.

Your vehicle also comes with a Telematic unit. This Telematic unit is under the concept of TVS Connect and it is equipped with electronics to monitor and transmit various vehicle data such as battery, engine and other electrical systems. The vehicle data allows for various remote function services, some of which are as follows.

- Remote monitoring of fuel in the vehicle – The fuel in the vehicle of the vehicle can be checked using your internet enabled smart phone (TVS Connect app) even if you are not near to vehicle.
- Live tracking – The live status of the vehicle can be checked remotely at any time using TVS Connect app prescribed for this vehicle.

- By purchasing the TVS NTORQ 150, customer acknowledges and consent to the collection and utilisation of vehicle telematics data, including but not limited to vehicle performance, number of kilometers the vehicle has run, for the use of connected features for TVS Connect app by the Customer.
- The information relating to the vehicle collected by TVS Motor Company does not include any personal information provided by you, shall be deemed to be TVS Motor Company proprietary information and shall be solely owned by TVS Motor Company. TVS Motor Company may use such information in the manner deems fit and necessary.

LED PROJECTOR HEADLIGHTS WITH 'FOLLOW ME HEADLAMP' FEATURE

Your TVS NTORQ 150 is equipped with premium projector headlamps, featuring a total of four projectors. Two projectors are dedicated to 'low beam' operation, while the other two are for 'high beam'. The 'low beam' automatically turns on as soon as the engine is started.

The 'Follow Me Headlamp' feature of the headlamp, extends visibility during nighttime journeys by remaining illuminated for 20 seconds even after switching 'OFF' your vehicle to guide you to reach home safely in darkness.



FUEL TANK# CAP

Fuel tank is located at the rear end of the vehicle below the pillion holder.

To open the fuel tank cap, follow the procedure given in the page no. 31. To close the cap, gently press the cap in its position and ensure locking by hearing 'Click' sound.



The fuel tank is not a measuring instrument and the capacity of the fuel tank may slightly vary from the indicated capacity.

Warning

Never refill fuel near open flame. Do not smoke while refueling. Do not use cell phones while refueling.

Caution

Ensure that the fuel gun is inserted fully in the tank neck while refueling.

Whenever refueling, fill upto the bottom of neck portion (insert level) of the fuel tank. Filling above the neck may result in improper breathing of fuel tank and seepage of fuel.

While refueling, avoid spillage of petrol on the tyre. If fuel spills on tyre, the tyre will loose its grip on the road. Ensure to close fuel tank cap without fail to avoid fuel spillage.

EFFORTLESS E-Z CENTRE STAND

TVS NTORQ 150 is equipped with a effortless centre stand. The centre stand (1) has a pivoted flexible spring loaded lever arm (stand extension) (2) to increase the lever ratio, which enables parking on centre stand effortlessly and very conveniently.



To place the vehicle on centre stand, hold the handle bar left grip with left hand, place your foot firmly on the centre stand extension (2) while ensuring that both the stand shoes are touching the ground, press the stand extension.

SIDE STAND

Side stand can be operated by sitting on vehicle with your left foot by pushing it away from the vehicle till it stops.



Warning

Always release the side stand to its full up position before starting the vehicle. Else the vehicle will not get start.

Caution

Never sit on vehicle when it is supported by stands. Always park the vehicle on a flat, firm surface.

TOOL KIT AND FIRST AID KIT

To assist you in performing certain aspects of periodic maintenance and emergency repairs, a tool kit is supplied along with the vehicle and it is located below the seat base. To access the tool kit, seat need to be opened. Follow the procedure given in the page no. 30 for the seat opening procedure.

The tool kit consists one number each of the following. Ensure the contents of the tool kit.

10x12 mm spanner

Combination screw driver bit

Screw driver handle

Tool bag





Caution

It is recommended to use the tool kit in case of any emergency only. It is always advisable to take your vehicle to TVS Motor Company Authorised Main Dealer / Authorised Dealer.

UTILITY BOX

Utility box is located below the seat. Lift the seat by unlocking the seat lock as explained in the page no. 30, to access the utility box.



Warning

Operating the TVS NTORQ 150 overloaded will hamper the riding stability and may lead to loss of control. Hence, it is advisable to carry the recommended amount of load only.



Caution

Utility box has the storage space of 22 liters.

Do not carry perishable items inside the utility box. It is not fully sealed. Do not allow / spray water to get inside the utility box. Take care not to spill petrol or oil into the utility box.

*Do not keep heat-sensitive items inside as it may get hot on long rides. **Do not keep valuable items inside the utility box when leaving the vehicle unattended.***

HELMET HOOKS

Two helmet hooks are provided under the seat assembly at front end near the seat hinge to secure your helmet. Open the seat assembly (refer page no. 30) to access the helmet hooks. Hook the helmet strap in the helmet hook properly and close the seat assembly.



BAG HOOKS

There is a bag hook provided with your scooter to carry light luggage like carry bags weighing upto 3 kg. The hook is located below handle bar on the rear panel.

Just pull out the hook from the top to hang your luggage. Push back the hook once it is free.

Similarly, the other one is located on the cover front below front end of the seat assembly. Pull out the hook from its position. Open the top lid and hang your cargoes. Lid will get close automatically. Push back the hook to its original position once it is free.



Caution

Care should be taken not to attach the luggage which hangs out of your scooter. Please note that the luggage attached to your scooter should not interfere your feet movement.

FRONT GLOVE BOX

Your scooter is provided with glove box front. Which has 2 liter storage capacity and used to hold your mobiles while charging or hold a small bottle.



SMART PHONE CHARGER

All new smart phone charger has been provided in the utility box of your vehicle (refer page no. 30). Please follow the guidelines mentioned below for using it properly:

DO's

1. Ensure that no water enters into the unit, by closing the USB flap properly.
2. Use the USB only if approved standard USB cable used for charging your mobile.
3. Do make sure the flap is not damaged while opening / inserting the USB cable.



DON'Ts

1. Do not leave the USB charging flap open / partially closed.
2. Do not attempt to use / charge any other device, other than mobile phones. Only one mobile phone should be charged at a given time.
3. Do not try to force the USB connector in, check whether it is inserted in the appropriate direction, to prevent the damage to the charger.
4. Do not charge your mobile when engine is off.



Caution

The charging time of the mobile may vary, depending on the mobile's battery state of charge. The rubber flap in the unit has been designed to prevent water entry and is not replaceable. No warranty for charger in case of rubber flap cut.



GENERAL ADJUSTMENT

LEFT AND RIGHT HAND BRAKE LEVERS - ADJUSTMENT

TVS NTORQ 150 comes with an adjustable left hand and right hand brake levers. There are three positions provided for you to adjust the levers to suit your palm size. The levers can be adjusted by adjusting the position adjuster (A) provided in the knob itself. 'Position-1' is the closest position of the lever to the handle bar grip and 'Position-3' is the farthest.

To adjust the levers position, push the required lever forward and rotate the position adjuster to any of the three positions by aligning the 'arrow mark' on the lever to the position number provided on the adjuster.



PRE RIDE INSPECTION

Check the following items before riding

ITEM	WHAT TO CHECK FOR
Engine oil	Availability of oil upto the level (page no. 103)
Transmission oil	Availability of oil upto the level (page no. 104)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no. 108) Adequate tread depth / No cracks or cuts
Battery	Proper working of electric starter, horn, fuel gauge, pass-by, brake lamp and turn signal lamps. Battery voltage (page no. 96)
Lighting	Proper working of head lamp high / low beam, high beam indicator, position lamp, connected instrument cluster back illumination, tail lamp and number plate lamp.
Steering	Smooth movement / no play or looseness
Throttle	Correct free play of cable / smooth operation
Brakes	Correct rear brake lever play (page no. 105) Availability of front brake fluid and proper working of brake (page no. 105)
Wheels	Free rotation of front and rear wheels



STARTING THE ENGINE

Ensure availability of adequate fuel in the fuel tank. Insert the control key into the ignition cum steering lock and turn it to the 'ON' position. In side stand retracted condition, apply any one of the brake and press the electric starter switch to start electrically.

SETTING THE VEHICLE IN MOTION

Twist the throttle grip slowly towards you and simultaneously release the brake lever gently and smoothly. The vehicle will start moving forward.

As the vehicle picks up speed, increase the throttle slowly.



Caution

Do not keep the engine in idling rpm for long and do not open excessive throttle when the vehicle is on side stand or off stand with brakes applied condition. It leads to overheating of engine and damage to the internal components.



Warning

Do not raise the throttle rapidly so the vehicle will move forward suddenly and lead to loss of control.

STOPPING AND PARKING

1. Close the throttle completely and apply both the brakes simultaneously.
2. Turn the ignition 'OFF'.
3. Park the vehicle on a firm, flat surface.
4. Lock the steering and take out the control key.



Warning

Reduce speed to a safe limit before turning / cornering. Do not apply brake while turning / cornering.

FUEL RECOMMENDATION

Use only BS VI petrol with minimum RON 98.

BS VI petrol containing upto 20% of ethanol by volume can be used.

Higher ethanol content in petrol can lead to

- degrade plastic and rubber components of fuel system and vehicle parts
- cause corrosion damage to metal parts like fuel tank, etc
- result in startability & drivability issues
- decrease fuel economy

Ethanol absorbs water very easily, resulting fuel separation. Extra care shall be taken to prevent moisture entry into fuel tank while filling ethanol blended petrol and water washing of vehicle.

Painted parts (viz. panels, covers) shall not come in contact with ethanol blended fuels. Manufacturer is not responsible for any warranty issues that results from using ethanol blend in excess of 20% by volume in petrol.



Caution

Never mix oil in petrol in the fuel tank. Always fill fuel from the reputed and reliable fuel stations.

In case of any abnormalities observed due to use of ethanol blended fuels, customers are advised to use a different fuel station / brand for standard E20 fuel or contact authorised service centres.



CHECKS AND TIPS FOR IMPROVING FUEL ECONOMY

Regular checks

Carry out the periodic maintenance checks as specified in this manual (page no. 92).

Regular maintenance checks will save fuel and ensure trouble-free, enjoyable and safe riding besides keeping environment clean.

Spark plug

A dirty or defective spark plug leads to wastage of fuel due to incomplete combustion. Inspect and clean the spark plug only if necessary. Replace the spark plug every 12000 kms (1 year). Always use recommended spark plug only.

Air cleaner element

A dirty air cleaner element restricts airflow and increases fuel consumption. Replace the element every 12000 kms.

Since paper filter is used in your scooter it is not recommended to clean the filter. Replace the filter incase of any abnormalities.

Engine oil and Transmission oil

Dirty or less engine oil increases the friction between various parts of the engine and reduces the engine life, thereby increases the fuel consumption.

Running with low transmission oil will cause damage to the gears and bearings.

Regularly inspect the engine oil and the transmission oil for correct level and top-up if necessary. Get it replaced at regular intervals as per the maintenance schedule.

Fuel leak

Inspect and arrest fuel leaks if any from tank and fuel lines. Loss of fuel due to leak may drain the fuel tank completely.

Evaporation

Vehicle parked in the hot sun leads to wastage of fuel through evaporation. Also, lower fuel levels in the tank will have increased evaporation and condensation of moisture inside.

Ensure to close fuel tank cap after every filling. If the fuel tank cap kept open for long time, it leads to safety and fuel loss.

Tyres

Low tyre pressure has adverse effect on the vehicle. The drag on the vehicle increases resulting decreased fuel economy. Further more, handling may be adversely affected. Inspect the tyre pressure regularly (weekly) and inflate it to the recommended pressure (refer page no. 108). Never use tyres which are worn beyond the permissible limit.

Wheel freeness

Inspect and ensure the wheel freeness by rotating the wheel at least once in a week to avoid wastage of fuel.

Avoid unnecessary idling

While waiting for someone or stopping in signals for long time, if the engine is kept running at idle speed, it causes unnecessary wastage of fuel.

Avoid frequent braking

Anticipate corners and slopes as well as the traffic conditions. Unnecessary and frequent braking will reduce the fuel economy. Never accelerate and apply brake simultaneously. It leads clutch shoes wear and wastage of fuel.

Note

The on-road mileage of TVS NTORQ 150 is dependent on several factors like road condition, quality of fuel, riding speed, operation of clutch and brake, tyre inflation, maintenance / timely servicing of vehicle, load etc. and hence will differ from the mileage given under standard test conditions such as made in recognised institutes.



MAINTENANCE SCHEDULE

The maintenance schedule indicates the intervals between periodic services. At the end of each interval, be sure to inspect, check, replace, adjust, lubricate and service as instructed. If the maintenance is not done periodically, it will result in rapid wear and severe damage to the vehicle. If the vehicle is used under high stress conditions such as continuous full throttle operation or is used / operated in dusty area, certain jobs should be performed more often to ensure reliability of the vehicle. Cylinder head, steering components, suspension and wheel components etc., are key items and require very special and careful servicing. TVS Motor Company Limited strongly recommends that the jobs as per the maintenance schedule be performed by your TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Periodic inspections may reveal one or more parts that may need replacement. Whenever replacing parts on TVS NTORQ 150, it is recommended that you use only the TVS Motor Company Genuine parts.



Caution

Proper running-in and maintenance are mandatory for making certain that your vehicle is reliable and gives optimum performance at all times. Make sure that the periodic maintenance is performed thoroughly in accordance with the instructions given in this owner's manual.

In more dusty areas, the air filter elements required early inspection than the mentioned kilometers to avoid costly damages to the engine. If the element is found with excessive dirt / clogged with dust, clean the element using mild compressed air from inside. Replace the filter incase found any abnormalities.

PERIODIC MAINTENANCE SCHEDULE (months or km whichever occurs earlier)

Service km Period from date of sale		Pre ride check	Free service			After free service	Remarks
			1st 500 ~ 750 30 ~ 60 days	2nd 5500 ~ 6000 6 months	3rd 11500 ~ 12000 12 months	Every 6000 km / 6 months	
Items	Activity						
Engine oil / Oil filter (strainer)	Replace or Inspect and top-up	I	R	R	R	R	Clean strainer
Transmission oil	Replace or Inspect and top-up	I	–	–	R	–	Replace every 12000 km
Spark plug	Inspect and clean or Replace	–	I	–	R	–	Inspect and clean if required. Replace every 12000 km
Air cleaner element	Replace	–	–	–	R	–	Replace every 12000 km
Air cleaner oil collection tubes	Inspect	–	–	–	–	–	Drain oil if necessary
Tappet clearance	Inspect and adjust	–	I & A	I & A	I & A	I & A	Inspect for any abnormal noise / starting trouble and adjust if required
Drive belt, CVT rollers and clutch shoe	Replace	–	–	–	–	–	Replace every 24000 km
Cover variator	Inspect, clean and lubricate	–	–	–	I, C & L	–	Clean every 12000 km
Hose fuel	Inspect and replace	–	–	–	–	–	Inspect every service after four years, replace if required
Front and rear suspension	Inspect for proper functioning	–	–	I	I	I	

Contd...

Service km Period from date of sale		Pre ride check	Free service			After free service	Remarks
			1st 500 ~ 750 30 ~ 60 days	2nd 5500 ~ 6000 6 months	3rd 11500 ~ 12000 12 months	Every 6000 km / 6 months	
Items	Activity						
Throttle cable / grip	Inspect, clean, lubricate and adjust	–	–	I, C, L & A	I, C, L & A	I, C, L & A	
Steering smooth operation / play	Inspect, adjust and lubricate	–	–	–	I & A	–	C, L & A with fresh grease every 12000 km
Front fork oil	Replace	–	–	–	–	–	Replace every 24000 km
All fasteners	Inspect and tighten	–	–	I	I	I	Tighten if required
All bulbs, horn and switches	Inspect for proper functioning	–	–	I	I	I	
Head lamp beam (focus)	Inspect and adjust	I	–	I	I	I	Adjust if required
Battery Voltage (recharge if required)	Inspect	–	–	I	I	I	Through diagnostic tool or at battery terminal
Rear brake effectiveness / play	Inspect, adjust and lubricate at cable ends	I	I, L & A	I, L & A	I, L & A	I, L & A	
Rear brake cam and brake shoe	Clean, lubricate and adjust	–	–	C, L & A	C, L & A	C, L & A	Lubricate using grease every 6000 km
Brake pad wear	Inspect and replace	I	I	I	I	I	Replace if necessary
Brake fluid	Inspect and top-up	I	–	I & T	I & T	I & T	

Contd...

Service km Period from date of sale		Pre ride check	Free service			After free service	Remarks
			1st 500 ~ 750 30 ~ 60 days	2nd 5500 ~ 6000 6 months	3rd 11500 ~ 12000 12 months	Every 6000 km / 6 months	
Items	Activity						
Master cylinder cups	Replace	–	–	–	–	–	Replace if necessary during top-up / brake fluid replacement
Wheel freeness and tyre pressure at cold condition	Inspect & set	I	I & S	I & S	I & S	I & S	
Front wheel bearing		–	–	–	–	–	Lubricate using grease every 12000 km
Malfunction codes	Inspect	–	–	I	I	I	Check and resolve the errors using diagnostic tool if the lamp is ON even after starting the engine
Evaporative emission control system	Inspect	–	I	I	I	I	Check for intactness of hoses and canister
Fuel tank assembly**	Inspect	–	I	I	I	I	
Centre / side stand pivot	Lubricate	–	L	L	L	L	Lubricate using TRU4 oil

I - Inspect; R - Replace; A - Adjust; C - Clean; L - Lubricate; T - Top up; TI - Tighten; S - Set

** Check for abnormal vehicle jerk / noise while opening the cap / leak. If found any, contact TVS Motor Company Authorised Main Dealer or Authorised Dealer.

RECOMMENDED LUBRICANTS

APPLICATION	QTY	MANUFACTURER	BRAND
Engine oil	880 ml (during regular service) 930 ml (incase of disassembly)	TVS Motor Company	TVS TRU4 SKUUTA oil (SAE 10W30 API-SL, JASO MB)
Transmission oil	120 ml (during regular service) 130 ml (incase of disassembly)	-do-	-do-
Front fork oil	94 ± 1 cc / leg	IOC / HPCL	Gabriel Premium front fork oil
Disc brake fluid	–	TVS Girling	DOT 3 / DOT 4
Grease	–	Bharat petroleum IOC Bechem Kluber Lubrication	MP Grease no. 3 Servo Gem no. 3 Bechem premium 3 Kluber Centoplex 2

SELF - MAINTENANCE PROCEDURES

MAINTENANCE FREE (MF) BATTERY

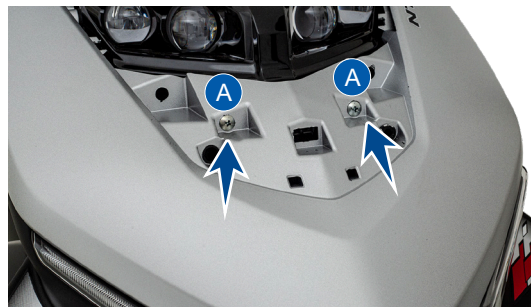
Battery is located at the front side of vehicle inside the front panel. The front panel must be removed to access the battery in the following manner:

- Gently pull out the front panel top by dislocating its lugs.



Caution

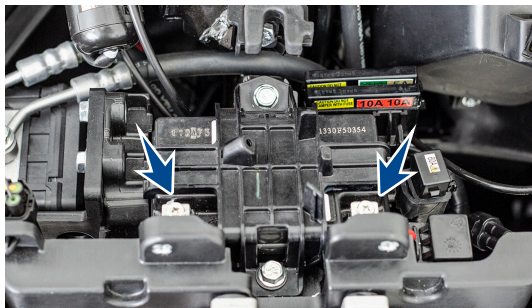
Care should be taken not to damage lugs during removal or reassembly. Also ensure the availability locking clips during reassembly.



- Remove the front mounting screws (A) of panel front.



- Remove the rear mounting screws (B) of panel front.
- Gently dislocate the front panel and take it out along with head lamp assembly while disconnecting the head lamp assembly coupler from main wiring harness.



Caution

Never check the battery charge by shorting the terminals. Always connect the positive terminal first (red wire) and then negative (black wire) to avoid sparking. The inversion of the battery wires can damage the battery and the recharging system. Always connect the positive then negative to avoid sparking.

Since the maintenance free battery is fitted on your vehicle it is not necessary to top-up with the distilled water. But to ensure the battery performance and long life, follow the steps given below :

Check the battery voltage as per the schedule. If the voltage is less than 12.4 volts, charge the battery using **recommended MF battery charger** at TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Do not add any additional electrical accessories other than recommended by TVS Motor Company Limited. It is recommended to remove the negative (-) terminal first and then the positive terminal (+). Similarly, while connecting connect the negative terminal (-) first and then the positive terminal (+).

While connecting the terminals observe the correct polarity. Connect the red wire to the positive (+) terminal and the black wire to the negative terminal (-) of the battery.

Note

Ensure to reconnect the head lamp assembly coupler during removal without fail.

Petroleum jelly must be applied at terminals to prevent it from corrosion.

Incase of any abnormality or for removal of battery from the vehicle, contact TVS Motor Company Authorised Main Dealer / Authorised Dealer.

- Reassembly the parts in the reverse order of removal.

Note

After reassembly the head lamp assembly beam need to checked and adjusted. Contact TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Recommendations to maintain battery health during prolonged parking conditions

While your vehicle is parked for prolonged duration, battery continues to discharge and if left unattended can get completely discharged. It is recommended to ride the vehicle for minimum 60 km every week to keep the battery in healthy condition. This could be at a stretch in one ride or several rides during the week. The vehicle speed will vary during the ride but an average speed of minimum 30 km/h will be helpful to ensure proper battery charging. Use kick-starting, if available, to conserve battery charge during such period. This is only a recommendation to maintain battery charge and regular service schedules must be followed to maintain your vehicle in good running condition.

The following are recommendations to users regarding battery maintenance before, during and after long storage of battery:

1. Before Storage

- Store the battery only after fully charging it
- Battery fuse to be disconnected and stored safely. This will reduce the sleep mode current and hence enhance storage life of battery.*

- Alternatively, battery connecting wires (positive and negative wires) can be disconnected and fasteners can be secured with battery terminals.*

2. During Storage

- Store it at room temperature or lower.
- Store the vehicle in the shade and protected from rain and cover the vehicle to prevent rodents from entering and damaging the wires.

3. After Storage

- Connect the wires and fuse, if disconnected earlier, with ignition switch in OFF position*

(Above recommendations do not consider storage effects on other systems such as induction and fuel systems and wheels)

Periodic Maintenance of Batteries:

- Keep top of battery clean
- Check cables, clamps, and case for obvious damage or loose connections
- Clean terminals and connectors as necessary
- Recharge battery if voltage is below 12.4 Volts.

* To be done by skilled personnel

- Valve Regulate Lead Acid (VRLA) / Lead Acid batteries are prone to water damage. Any water entry, through vents or otherwise; will result in irreparable damage to the battery or the vehicle.

Warning

Battery develop explosive gases. Keep it away from heat sources. If charging is required the battery must be charged in well ventilated area.

Unusable battery must be disposed in environment friendly manner. Do not discard it with household thrash. Handover the battery to the battery dealers or to a recycle center that accept used battery.

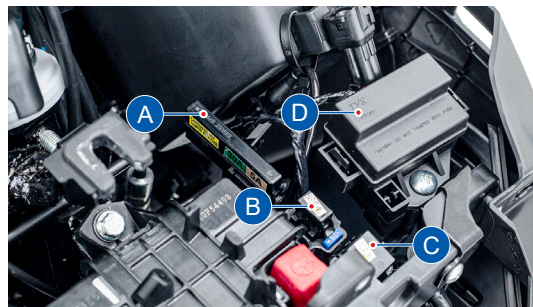
Caution

Never operate the vehicle with discharged battery as it may damage electrical components.

FUSE

Failure of electrical systems may occur due to blown safety fuses. The primary reasons for fuse failure are short circuits or electrical overloads.

In your scooter, these safety fuses are housed in four separate fuse boxes, labeled A, B, C and D, as shown in the figure.



Caution

Do not use vehicle by shorting the wires without fuse. This may result in overheating of electrical items / wiring and may result in fire of vehicle.

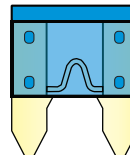
The fuse details are given below:

Type of fuse	Fuse rating	Electrical load
Cartridge	60A	ISG
Blade	15A	Ground
	10A	ABS
	5A	ABS
	7.5A	EMS
	10A	Load
	30A	Main fuse
	5A	Other loads

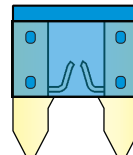
Follow the procedure given below for inspecting and replacing the fuse.

- Turn 'OFF' the ignition and remove the front panel as explained in the page no. 96.
- Take out the respective fuse case from its location and open its cover.
- Pull out the fuse and inspect the fuse for failure. If found defective, replace the blown fuse with a new (extra fuses are provided in the respective case itself).

Good Fuse



Blown Fuse



- Close and refit the fuse case back to its position.
- Turn 'ON' the ignition lock and check for proper functioning of the electrical systems. In case the fuse fails again, consult the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.



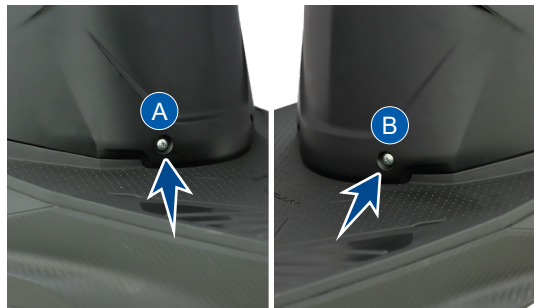
Caution

Do not use fuse of higher amperage than specified for the safety of electrical system.

SPARK PLUG

To access the spark plug, the cover front has to be removed. Follow the bellow procedure to remove the cover front.

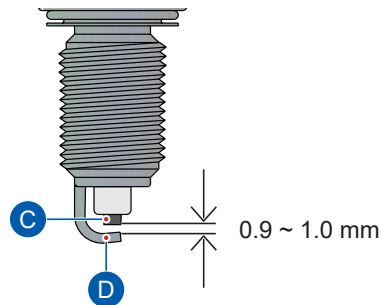
1. Remove the bottom mounting screws (A & B) of cover front.
2. Open the seat assembly.
3. Gently pull out the cover front by dislocating its lugs.
4. Clean the dust and mud around the spark plug mounting to avoid falling inside the cylinder.
5. Pull out the suppressor cap from spark plug.



6. Using the spark plug spanner, remove the spark plug.

A spark plug with heavy carbon deposits will not produce strong sparks. Hence, only if necessary, clean the carbon deposits from the spark plug with a small wire brush or spark plug cleaning tool.

Inspect the spark plug electrodes (C) and (D) for any corrosion. If found any replace the spark plug with new. Visually inspect the spark plug gap. The gap should be 0.9 ~ 1.0 mm. If the gap is found to be more than the limit, replace the spark plug with a new one.



After cleaning and inspecting the gap, reinstall the spark plug and tighten by hand to avoid cross threading. Finally tighten using spark plug spanner. Do not over tight or cross thread the spark plug.

Caution

Always use only recommended make and type of spark plug. Replace spark plug every 12000 km.

Don't remove the spark plug when the engine is hot. Cover the spark plug hole with a cloth when the plug is removed to prevent entry of dust / water.

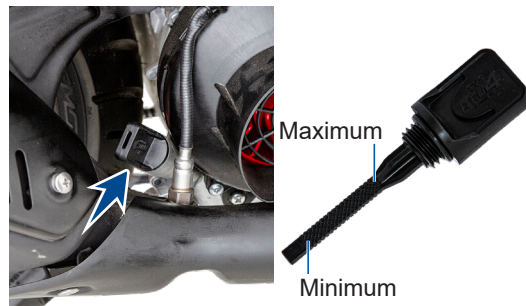
Do not try to adjust the spark plug as it may damage the plug. Replace the plug if the gap is found more.

It is advisable to tighten the new spark plug by hand till the end, using plug spanner tighten by 1/4 turn. Then loosen the plug by 1/8 turn and re-tighten using plug spanner.

ENGINE OIL LEVEL

Check the engine oil level periodically.

1. Place the vehicle on centre stand on a flat surface. Wipe-off the surroundings of gauge oil level.
2. Remove the gauge and wipe it clean.
3. Fix the gauge back to its mounting hole. Do not thread in.
4. Take out the gauge and check the oil level. The level should be between minimum and maximum level marks of the gauge (shown in the figure).
5. If the oil is less than the minimum level, add 'TVS TRU4 SKUUTA oil (SAE 10W30 API-SL, JASO MB)' upto the maximum level mark.



6. Wipe out the oil traces with a clean cloth to prevent dust accumulation.
7. Assemble back the gauge oil level.

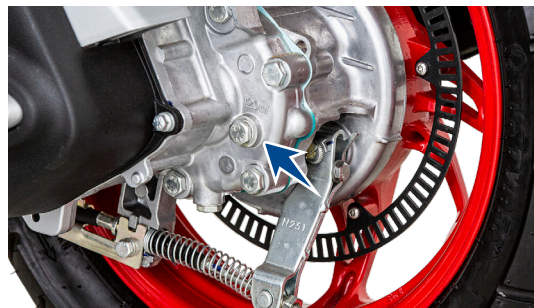
Caution

If the vehicle is driven with less engine oil, the engine components will be severely damaged.

Check the oil level as per the schedule to avoid costly damage. Do not fill excess oil may cause oil leak. Always use 'TVS TRU4 SKUUTA oil only (SAE 10W30 API-SL, JASO MB)'.

TRANSMISSION OIL - LEVEL

1. Check the transmission oil level periodically.
2. Place the vehicle on centre stand on a flat surface.
3. Wipe-off the surroundings of oil level screw.
4. Remove the transmission oil level screw along with a gasket from the rear end of crankcase L.
5. Check for the flow of oil from oil level hole.
6. If the level is less (if there is no oil flow), top-up with 'TVS TRU4 SKUUTA oil (SAE 10W30 API-SL, JASO MB)' till the oil just starts to flow out from the oil level hole.



7. Wipe out the oil traces with a clean cloth to prevent dust accumulation.
8. Replace the fiber washer while reassembling the oil level screw.

Caution

If the vehicle is driven with less transmission oil, the transmission components of engine will be severely damaged.

Check the oil level as per the schedule to avoid costly damage. Do not fill excess oil may cause oil leak. Always use 'TVS TRU4 SKUUTA oil only (SAE 10W30 API-SL, JASO MB)'.

BRAKES

Front brake

You can observe a master cylinder (1) right side of the handle bar near brake lever. A caliper assembly (2) fitted to the fork leg L, a disc (3) on the front wheel and a high pressure hose (4) connecting the master cylinder and the caliper assembly.

1. Check the master cylinder brake fluid level through the view piece glass (A).
2. The brake fluid level always should be above the 'MIN' mark (B) provided on the view piece glass of the master cylinder when the cylinder is parallel to ground.



3. If the brake fluid level is below the mark or while applying brake if you feel the brake is more spongy or ineffective due to air entry, contact TVS Motor Company Authorised Main Dealer or Authorised Dealer for topping-up the brake fluid, air bleeding and other brake related inspections.

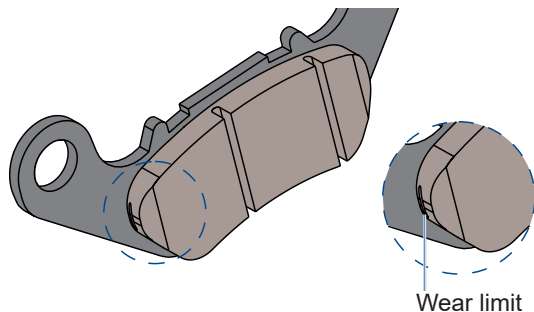


Caution

Master cylinder brake fluid level must be checked only when the master cylinder is parallel to the ground.

Brake pad wear indicator (Disc brake)

Check for the wear of brake pads visually. If the brake pads wear is found beyond the wear indicator groove as shown in the figure, replace the brake pads as a set with a new one.



Caution

Replace the brake pads as a set, if the wear indicator shows beyond the wear limit.

Warning

Disc brake SBS cable need to be adjusted incase if rattling is found in both brake levers.

Rear brake (Drum brake)

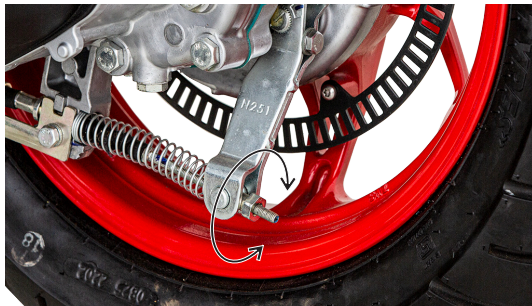
1. Measure the free play of the rear brake lever at the lever end as shown in the figure.
2. Free play of brake lever before the engagement of brake should be between 10 ~ 15 mm.
3. If the measured distance is more than the limit, adjust the nut provided at the rear wheel end to obtain the correct play.



Warning

Check the rear brake play periodically. However the brake play needs to be adjusted more frequently depending upon the usage.

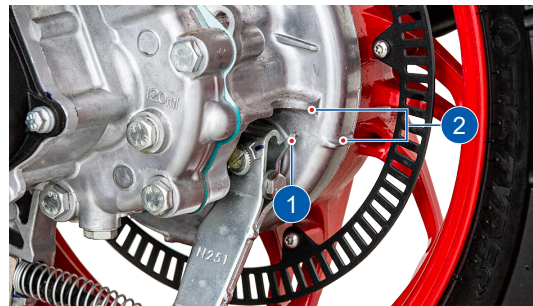
4. Turn the adjuster nut in clockwise direction for reducing free play or in anti-clockwise direction for increasing the free play.



Brake shoe wear indicator (Rear brake)

When brake is applied, the wear limit indication pointer (1) on the rear brake cam lever should be within the wear limit indicator (2) on the crankcase LH.

In case the wear limit indication pointer (1) is going beyond wear limit indicator (2), index the lever to next slot with the help of Dealers to extend shoe life.



Caution

Replace the brake shoes as a set, if the wear limit indicator shows beyond the wear limit even after indexing the lever.

TYRES

Tyre pressure

Check the tyre pressure atleast once in a week if not more frequently. Insufficient air pressure in the tyres not only hasten tyre wear, but also seriously affects the stability of the vehicle.

Under inflated tyres make smooth cornering difficult and over inflated tyres decreases the tyre contact with the ground which can lead to skidding and loss of control.

Be sure that the tyre pressure is within the specified limit at all times.

Tyre pressure in cold condition:

	Solo	Dual
Front	1.68 kg/cm ² (24 PSI)	1.68 kg/cm ² (24 PSI)
Rear	2.25 kg/cm ² (32 PSI)	2.53 kg/cm ² (36 PSI)

Tyre tread condition

Operating the vehicle with excessively worn tyres will decrease riding stability and can lead to loss of control. It is recommended to replace the tyre when the tyre wears off to the tyre wear indicator level (indicated by TWI (A) on the tyre).



Warning

The tyre inflation pressure in cold condition and the tyre tread condition are extremely important for the performance and safety of the rider. Check the tyres frequently for inflation pressure as well as the wear pattern on it. Use of a tyre other than the standard may cause instability.

Tyre rotation direction

While reassembling the tyre on the wheel rim, please ensure to assemble the arrow mark on the tyre should match the actual direction of rotation of wheel (both front and rear wheels).

Tyre puncture

Your scooter is fitted with a tubeless tyre on both front and rear wheel. In case of any puncture / tyre damage, it is advised to visit the nearest tyre manufacturer Dealer or the tyre repair shops who knows the repairing method of tubeless tyre.

It is not necessary to remove the tyre from wheel rim always to attend a puncture, Even though it there is need of tyre removal, it is strongly recommended to use a tyre removal / fitment machine. If at all, tyre levers needs to be used, the levers should be free from sharp edges. Care should be taken not to damage the tyres and rims.



Caution

The side walls of the tubeless tyre which in contact with the wheel rim are only seals the air inside the wheel assembly. Hence care should be taken not to damage the side walls of the tyres during removal / reassembly.

Tyre Maintenance Tips

Inflation Pressure Check - Condition



**Within
1 km**



**Within
5 km**

Note

If vehicle is in hold condition for long time

- Need movement of vehicle to avoid particular spot of tyre not to touch the ground for more than week time.
- Inflation pressure should check on cold condition maximum travel time should not exceed more than 1 km.
- Weekly basis inflation pressure check helps to improve 10% of tread life & fuel efficiency.

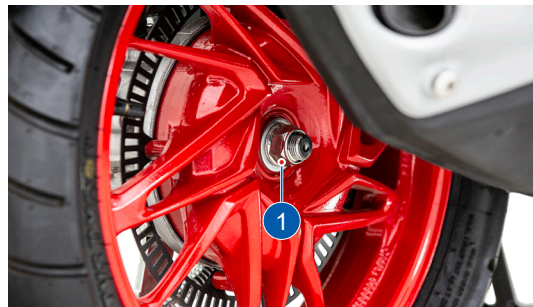
FRONT WHEEL REMOVAL AND REASSEMBLY

1. Remove the axle nut (1) along with a washer.
2. Pull out the axle (2) along with a washer and take out a spacer from the left side of the wheel.
3. Place a support below the foot board to prevent vehicle from falling and lift the vehicle up.
4. Dislocate the wheel disc from caliper assembly and take out the wheel along with hub drive.
5. Reverse the procedure for reassembling. Ensure the proper seating of wheel disc in the caliper assembly and lug on fork leg R to the slot in the hub drive while reassembling.



REAR WHEEL REMOVAL AND REASSEMBLY

1. Place the vehicle on the centre stand.
2. Hold the rear brake firmly and remove the wheel mounting nut (1) along with a washer.
3. Slightly tilt the vehicle and take out the wheel from the rear axle.
4. Reassemble the wheel in the reverse order of removal.



Caution

Always make sure, whenever the wheel is removed, the axle nuts are tightened properly to the specified torque.

STORAGE PROCEDURES

For storage of your scooter for longer period of over a month and above, we recommend to carry out the following steps:

1. Clean the vehicle thoroughly. Park the vehicle on centre stand.
2. Warm up the engine and drain engine oil and transmission oil. Store the oil, if new, in a dust free container.
3. Empty the fuel tank.
4. Remove the spark plug and feed in several drops of engine oil through spark plug hole. Crank the engine few times and reinstall the spark plug.
5. Remove the battery, store it away from direct sunlight and freezing temperatures.
6. Place a suitable support at the bottom of the foot board so that both the tyres are off the ground. This will ensure better tyre life.
7. Cover up the vehicle completely with a clean tarpaulin or any other suitable cover. Store the vehicle inside a garage or similar area to avoid damage due to dust and rain. Make sure that the storage area is well ventilated and free from any source of flame or spark.



Caution

Do not park the vehicle on a slope or soft ground or else it may fall down.

The exhaust system becomes hot after a run. Park the vehicle in a place where pedestrians or children are not likely to touch the vehicle.

During storage, the battery must be recharged at recommended charger if stored more than a month.

TAKING THE VEHICLE OUT OF STORAGE FOR REGULAR USE

1. Take the vehicle out of garage and clean it thoroughly.
2. Remount the battery after bench charging if required.
3. Fill the engine oil (TVS TRU4 SKUUTA oil - SAE 10W30 API-SL, JASO MB) and check the oil level using gauge oil level.
4. Fill the transmission oil (TVS TRU4 SKUUTA oil - SAE 10W30 API-SL, JASO MB) and check the oil level at the oil level screw.
5. Lubricate the parts as instructed in the periodic maintenance schedule.
6. Fill up fresh petrol in the fuel tank.
7. Check and inflate the tyres to the specified tyre pressure.
8. Check and correct the points mentioned in page no. 86.
9. Turn the ignition switch to 'ON' position. Retract the side stand if the vehicle is parked on side stand. Start the vehicle and ride out.



Caution

Avoid using alkaline solution like detergent soaps for washing. This may damage head lamp and other lamp assemblies.

RECOMMENDED TIPS WHEN TAKING A LONG TRIP OF MORE THAN 500 KM:

- A) Please keep the following items for use in case of emergency:
1. Tool kit complete.
 2. Recommended spark plug one number.
 3. Turn signal lamp bulb each one.
 4. Throttle and rear brake cable each one.
 5. First aid kit.
- B) Precautions to be taken for the journey:
1. Ensure engine oil and transmission oil are up to the level.
 2. Adequate fuel in the fuel tank.
- C) Check your scooter for the following:
1. Tightness of all bolts and nuts with correct torque value.
 2. Fitness of tyres / tyre pressure / tread depth.
 3. All bulbs, indicators and horn functioning.
 4. Smooth functioning of all cables and their free play.
 5. Smoothness of steering operation.
 6. Front / rear brake function and rear brake lamp working.

7. Front fork for any abnormality.
8. Spark plug gap and condition of spark plug.
9. Air filter element cleanliness.
10. Lubrication of all items mentioned in the periodic maintenance schedule.
11. Any other job as necessary.
12. Have your vehicle checked at any TVS Motor Company Authorised Main Dealer or Authorised Dealer.



Caution

Long journey are to be taken only after the running-in period of 1000 km.

TVS Motor Company Limited ('the Company') give this warranty with respect to the TVS NTORQ 150 manufactured by the Company.

While the Company has taken every care to maintain quality in the manufacture of the TVS NTORQ 150, the above said warranty is subject to other terms of warranty:

During 5 years from the date of purchase or during the first 50,000 km of run for the vehicle in the hands of original retail purchaser, whichever is earlier, the parts of the vehicle covered under warranty which prove to the satisfaction of the Company to have a manufacturing defect will be repaired or replaced free of cost.

The Company's obligation under this warranty is limited to repairing or replacing, free of cost, those parts of the vehicle which upon examination by the Company may prove to the Company's satisfaction to have a manufacturing defect, and in such cases the Company's decision either to repair or replace the affected parts will be final. In the event of replacement of parts, the Company also reserves the right to use parts of the same brand as the affected parts or any other brand which is used by the Company in the course of manufacture. All parts replaced under this warranty will become the property of the Company and must be returned to the company.

Limitations of Warranty:

This warranty shall not apply to following condition:

1. Any natural wear and tear, including without limitation, aging.
2. Warranty claims on proprietary items such as tyres, tubes and batteries etc., should be preferred by the user directly on the respective manufacturer, as per their warranty terms and the Company shall not be liable in any manner in respect to the same.
 - Battery warranty for "MF type (Maintenance Free)" is applicable for a period of 21 months from the date of charging or 18 months from the date of sale or 20,000 kms, whichever is earlier.
 - Battery warranty for "Lead Acid type" is applicable for a period of 15 months from date of charging or 12 months from date of sale or 10000 kms whichever is earlier.
3. Parts repaired or replaced under this warranty are warranted only throughout the remainder of the original warranty period.

4. The Company is not liable for any delay in servicing due to reasons beyond the control of the Company or any of its Authorised Main Dealers / Authorised Dealers.
5. In any event, the Company is not liable for indirect, remote, incidental or consequential damages.
6. The Company may make any modification or improvement to vehicles in future production at any time without prior notice and without any obligation to install the same on vehicles previously dispatched for sale.
7. Any claim under this warranty will lie only when the customer:
 - takes his vehicle to an Authorised Main Dealer / Authorised Dealer of the Company and reports the problem he / she felt in the vehicle to enable the Authorised Main Dealer / Authorised Dealer to inspect the same and assess the cause for the reported problems.
 - produces to such Authorised Main Dealer / Authorised Dealer the Service Handbook for the concerned vehicle for verification of relevant details.
8. This is the only warranty given by the Company for the TVS NATORQ 150. No employee, Dealer or other person is authorised to extend or enlarge this warranty.

Warning

Modifications to this vehicle not approved by the TVS Motor Company may cause loss of performance and render it unsafe for use and disqualifies for warranty coverage also.

Following Toll Free numbers can be contacted for battery related queries if any.

Incase of EXIDE battery, call :- 1800 103 5454

Incase of AMCO battery, call :- 1800 425 0096

Incase of TATA GREEN battery, call :- 1800 419 8888

Incase of AMARON battery, call :- 1800 425 5858

Following Toll Free numbers can be contacted for Tyre related queries if any.

Incase of TVS Srichakra, call :- 04522443300

Incase of JK tyre, call :- 18002581100

Incase of Maxxis tyre, call :- 1800 532 2888

Incase of Ceat tyre, call :- 1800 22 1213



List of parts not covered under warranty

ITEM	WHAT TO CHECK FOR
Normal Maintenance Operations	Engine tune-up, decarbonizing, fuel system cleaning, oil changes, head light focusing, fastener retightening, ignition timing, clutch and brakes as well as other normal adjustments.
Wear and Tear Items	Chain, sprockets, clutch and brake linings, fasteners, shims, washers, oil seals, gaskets, O' rings and spokes etc.
Electrical	Bulbs, fuse, AHO
Service Maintenance Parts	Oil filters, spark plug, air filter, oils and brake fluid
Rubber, Rexine and Plastic Items	All hoses, pipes and plastic aesthetics
Proprietary Items	<p>Battery, tyres and tubes (the warranty terms are subject to our agreement with proprietary OEM)</p> <p>(Battery warranty for "MF type (Maintenance Free)" is applicable for a period of 21 months from the date of charging or 18 months from the date of sale or 20,000 kms, whichever is earlier).</p> <p>(Battery warranty for "Lead Acid type" is applicable for a period of 15 months from date of charging or 12 months from date of sale or 10000 kms whichever is earlier).</p>
Others Factors	Parts of the vehicle getting affected due to atmospheric effect / environmental factors (rusting, paint peel off etc.). However, depending on the vehicle usage condition, warranty would be accepted up to 2 years from the date of purchase.
	Parts of the vehicle which have been tampered with, altered, repaired or replaced by persons not authorised by the Company and which in the sole judgement of the Company affect the performance of the vehicle.

List of parts not covered under warranty

ITEM	WHAT TO CHECK FOR
Others Factors	Parts which are used in conjunction with parts not made or recommended by the Company.
	Parts suffering damage or resultant damage by accident, misuse, negligent treatment, use of bad quality lubricants or impure fuel or by omission to follow the guidance and instructions contained in this owner's manual.
	Vehicles on which engine number or chassis number is deleted, defaced or altered.
	Vehicles on which any warranty service including scheduled paid service is not availed when it falls due (at TVS Motor Company Authorised Main Dealer / Authorised Dealer).
	<p>Vehicles sold or transferred by original retail purchaser.</p> <p>Vehicles used for racing or any competition or used otherwise than for ordinary personal transportation. Vehicles attached with side cars etc.</p> <p>Vehicles which have been taken out of India.</p> <p>Vehicles affected by natural calamities like flood, earthquake, tsunami, storm etc.,.</p>
	If the vehicle has been used for commercial purpose like taxi or used for rental or hiring or any other purpose other than regular personal transportation.

SERVICE INFORMATION

There are nine services for TVS NTORQ 150 during warranty period. Of these, first three services are free services for which labour charges are free. In addition to these three free services, we have a scheme of six pay services. For keeping the maintenance track of your vehicle, free and pay service record sheets are attached in the Service Handbook given to you during the time of your vehicle purchase. Please have the relevant record sheet filled by the Dealer who is carrying out the maintenance service.

For availing any of the warranty services, please take your vehicle and your Service Handbook to any of our Authorised Main Dealers or any of our Authorised Dealer. After effecting the service the Authorised Main Dealer or the Authorised Dealer will affix their stamp on the last column of free or pay service record sheet of Service Handbook for your record and reference. An OTP would be sent to customer's registered mobile number. The same to be shared with the servicing Dealer on or before vehicle delivery.

Periodic maintenance always helps good performance of an automobile and our services are planned to keep your TVS NTORQ 150 performing good. **Please note that carrying out the services for your vehicle at scheduled intervals at any of the TVS Motor Company Authorised Main Dealer / Authorised Dealer is necessary for availing of warranty.** And please also remember that, after the services are over, periodic servicing of your vehicle at appropriate intervals, depending upon its extent of use, will keep your vehicle at its best level of performance.

In case you need any clarification or assistance, please feel free to write to us mentioning the frame number, engine number and date of purchase of your vehicle also the name and place of the Authorised Main Dealer / Authorised Dealer from whom you bought the vehicle and getting it serviced.

Service Department

TVS MOTOR COMPANY LIMITED

P.O. Box No. 4, Harita, Hosur - 635 109,

TAMILNADU, INDIA.

Toll free no:- 1800-258-7111

Planned Service Schedule (kms or month whichever of the two occurs early)*

Sl.No.	Service	Type	Kms	Months
1	1st Service	Free	500 ~ 750	30 ~ 60 days
2	2nd Service		5500 ~ 6000	6
3	3rd Service		11500 ~ 12000	12
4	4th Service	Pay	17500 ~ 18000	18
5	5th Service		23500 ~ 24000	24
6	6th Service		29500 ~ 30000	30
7	7th Service		35500 ~ 36000	36
8	8th Service		41500 ~ 42000	42
9	9th Service		47500 ~ 48000	48

Note

Free service enables the customer to avail the service at free of labour charges. Charges for the pay service should be borne by the customer. Cost of engine oil, periodic maintenance parts, filter, brake fluids, all types of greases, petroleum jelly, distilled water, chain cleaner, lubricants, coolants, cleaning cloths for both free and paid services are chargeable to the customer.

* Please remember that, after the above schedule, periodic servicing of your vehicle at appropriate intervals, depending upon its extent of use, will keep your vehicle at its best level of performance.

Your Privacy is of paramount importance to us. We are committed to safeguarding your privacy and protecting your Personal Data that is with us. This Privacy Notice outlines the details of the Personal Data we collect and process, how we handle it and the purposes for which we use it. Please read the following carefully to understand our practices regarding your Personal Data.

Throughout this document, the terms “we,” “us,” “our” & “ours” refer to TVS Motor Company Limited. And the terms “you,” “your” & “yours” refer to YOU (the individual whose Personal Data we are referring to).

What Personal Data Do We Collect, Store and Process? Categories of Personal Data that we collect, store and process are as follows:

- I. Demographic, Identity & Contact Data (for e.g., name, last name, date of birth, gender, email address, address proof, contact number, language, occupation, physical address with pin code, preferences and interests.)
- II. Personal Identification Number (for e.g., PAN Card No, Voter ID, GST no, Passport and Aadhaar Number)
- III. Financial Account Details (for e.g., Bank Details, PF Details, Past Salary.)
- IV. Educational & Professional Data (for e.g., Education, Profession, Employment Type, work experience, Income, Tax category, Performance History.)

- V. Online Identifiers and other Technical Data (for e.g., IP address, browser type, device identifiers)
- VI. Personal Data collected via permissions on our mobile applications (for e.g., camera, contacts, location data, storage, photos, fingerprint/biometric and SMS)
- VII. Vehicle Data (for e.g., registration number, Registration type, registration data, VIN Number and Model type.
- VIII. Ride Data (for e.g., Mileage, travel location, travel date, time, top speed, average speed, driver behaviour data such as speed and braking habits.)
- IX. Subscriptions and Add on Data (for e.g., Subscription Plan, Plan Start Date, Plan End Date, Premium Paid.)
- X. Charging Details (for e.g., Charger Name, Charger Model, Start time, End time, Distance Available, Payable Amount)
- XI. Telematics Data (for e.g., data about speed, bike fall and crash)
- XII. Communications details (for e.g., communication done through emails) Generated Data (for e.g., logs, transaction records)
- XIII. Information relevant to surveys that we undertake.
- XIV. Testimonials and feedback that may contain some Personal Data.

Where Do We Collect Your Personal Data From?

We collect your Personal Data in the following ways:

- I. When you visit our website or social media pages and fill in the registration form and use the Contact Us facility.
- II. When you use our mobile applications.
- III. When you interact with us via our websites or use services on our websites including customer support.
- IV. When you use the connected features on our vehicle
- V. When you interact with our dealers.
- VI. When you apply for a job at TVSM
- VII. When we onboard you as an employee and during your subsequent interactions with us as an employee

How Do We Use Your Personal Data?

We use your Personal Data for the following purposes:

- A. If you express an interest in our services, we collect and share your Personal Data with our dealer, who in turn would contact you to schedule a store visit.
- B. If you are an existing customer, we collect your Personal Data for the following purposes:
 - I. to authenticate your account or information on our applications that you use.
 - II. to provide you with our products and services
 - III. to cross sell vehicles on our App/website

- IV. to communicate with you regarding existing products and services availed by you, including notifications of any alerts or updates.
- V. to evaluate, develop and improve our services.
- VI. to manage sales and refunds
- VII. to manage your subscriptions and add on
- VIII. for market and product analysis and market research.
- IX. to send you information about our other products or services which may be of interest to you.
- X. to obtain feedback and handle enquiries and complaints.
- XI. to comply with legal or regulatory requirements.
- XII. to reach out to you for service reminders.
- C. If you are a dealer, we collect your Personal Data for onboarding and invoicing purposes.
- D. If you are a website visitor, we process your Personal Data to optimize your website experience and customize content.

On What Legal Grounds Do We Process Your Personal Data?

We process your Personal Data by relying on one or more of the following legal grounds:

- I. You have consented to us processing your Personal Data for specified reasons.
- II. You have voluntarily provided your Personal Data to us for specified reasons.
- III. To evaluate, develop and improve our products and services.
- IV. The processing is necessary for compliance with a legal obligation we may have towards other stakeholders like law enforcement agencies, government agencies, regulators, etc.

Where the processing is based on your consent, you have the right to withdraw your consent at any point in time. Upon receipt of your request to withdraw your consent, the consequences of withdrawal will be communicated to you. In many cases, upon such a withdrawal, we may not be able to continue offering our products and services to you. You may withdraw consent by contacting us using the details specified in the 'Contact Us' section.

Who Do We Share Your Personal Data With?

We may disclose your Personal Data to:

- I. Our Parent Company for business and operational purposes;
- II. Our affiliates or group companies;
- III. Our Dealer; and/or
- IV. Third Party Service Providers who work for us or provide services or products to us.

We may also share your Personal Data under the following circumstances:

- I. To respond to court orders, or legal process, or to establish our legal rights or defend against legal claims.
- II. if we are acquired by or merged with another company.

International Data Transfer

The data collected from you is stored in India. We may transfer your Personal Data to other countries outside your country of residence for any of the purposes defined in this Privacy Notice to the entities mentioned above. Any Personal Data that we transfer will be protected in accordance with this Privacy Notice.

How Do We Secure Your Personal Data?

We are committed to protecting your Personal Data in our custody. We take reasonable steps to ensure that appropriate physical, technical and managerial safeguards are in place to protect your Personal Data from unauthorized access, alteration, transmission, and deletion. We train our employees about the importance of maintaining the privacy and security of your Personal Data. We ensure that the third parties with whom we share your Personal Data under appropriate contracts; take appropriate security measures to protect your Personal Data in line with our policies.

How Long Do We Keep Your Personal Data?

We retain your Personal Data for as long as it is required to fulfill the purposes outlined in this Privacy Notice and for legal or regulatory reasons.

How Do We Use Cookies and other Tracking Mechanisms?

We use cookies and other tracking mechanisms on our website to collect data about you. We use the data collected from cookies and trackers to analyze trends and statistics. This will help us optimize and customize your website experience and to provide better website functionalities.

We collect Personal Data about you via Mobile Applications

using permissions such as camera contacts/telephone, location, photo, SMS, etc. Your iOS and Android devices will notify you of the permissions that our app seeks and will provide you an option to consent to or refuse the permission. We use the data obtained through permissions to provide the functionalities through the Mobile Applications.

What Are Your Privacy Rights?

You have certain rights regarding your Personal Data that is with us, and we commit to provide you with them.

Right to Confirmation and Access: You have the right to get confirmation and access to your Personal Data that is with us along with other supporting information.

Right to Correction: You have the right to ask us to correct your Personal Data that is with us that you think is inaccurate. You also have the right to ask us to complete your Personal Data that you think is incomplete.

Right to Erasure: You have the right to ask us to erase your Personal Data that is with us under certain circumstances.

Right to Nominate: You have the right to nominate a person who can manage your personal data on behalf of you.

Right to Lodge a Complaint with the Authority: You have the right to lodge a complaint with the Regulator. If you wish to make a request to exercise any of your rights, you can contact us using the details in the **'Contact Us'** section of this Privacy Notice.

Links to Other Websites

Our website may contain links to websites of other organisations. This Privacy Notice does not cover how that organisation processes Personal Data. We encourage you to read the Privacy Notices of the other websites you visit.

How Do We Keep This Notice Up to Date?

We regularly review and update our Privacy Notice to ensure it is up-to-date and accurate. Any changes we may make to this Privacy Notice in the future will be posted on this page. When we post changes to this Privacy Notice, we will revise the “last updated” date.

Limitation of Liability

To the extent permissible under the law, we shall not be liable for any indirect, incidental, special, consequential or exemplary damages, including but not limited to, damages for loss of profits, goodwill, data, information, or other intangible losses (even if we have been advised of the possibility of such damages), arising out of this Privacy Policy.

Governing Law, Jurisdiction and Dispute Resolution

This Privacy Policy shall be construed and governed by the laws of India without regard to principles of conflict of laws. All disputes, differences, claims, controversies and the like, which may arise between the parties to this Privacy Policy, including construction, meaning or operation or effect of the same shall be referred to sole arbitration of an arbitrator to be nominated by the MCCI Arbitration, Mediation and Conciliation Centre (MAMC), The Madras Chamber of Commerce and Industry, ‘Karumuttu Centre’, First Floor, No. 634, Anna Salai, Nandanam, Chennai – 600 035, at the request of the authorised signatory of either TVS Motor or yourself, as the case may be, and such arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation (Amendment) Act, 2021, or its statutory amendments, and in accordance with the MAMC’s Rules of Arbitration and Conciliation or its amendments, in English language, and the seat of arbitration shall be at Chennai; the venue of arbitration shall be as per the choice of the MAMC-appointed arbitrator. The Award passed by the Arbitrator shall be final and binding on both the Parties.

How Do You Contact Us?

For any further queries and complaints related to privacy or exercising your rights, you could reach our Data Protection Officer at the following address:

Chief Information Security Officer At
dpo@tvsmotor.com

Business Address:
Prathik Tech Park,
93/4, Veerasandra Village,
Attibele Hobli, Electronic City,
Bengaluru, Karnataka 560100

MANUFACTURER : TVS MOTOR COMPANY LIMITED
P.B. No1, Bythahalli, Kadakola post, Mysore - 571 311, India.
TVS MOTOR COMPANY LIMITED

ENGINE

Type : Single cylinder, 4 stroke, fuel injection, air cooled, spark ignition engine

Cylinder bore : 57 mm

Stroke : 58.7 mm

Piston displacement : 149.8 cc

Compression ratio : 11.5 : 1

Air filter : Dry paper filter with dry foam

Oil filter : Wire mesh

Lubrication system : Forced wet sump

Maximum power in kW : 8.0 kW @ 7500 rpm (Street mode)
: 9.3 kW @ 7000 rpm (Race mode - without assist)
: 9.7 kW @ 7000 rpm (Race mode - with assist)

Maximum torque in Nm : 12 Nm @ 5500 rpm (Street mode)
: 13.4 Nm @ 5500 rpm (Race mode - without assist)
: 14.2 Nm @ 5500 rpm (Race mode - with assist)

ENGINE

Maximum speed : 98 km/h (Street mode)
: 104 km/h (Race mode)

Engine idling rpm[†] : 1500 ± 200 rpm (Street mode)
: 1650 ± 200 rpm (Race mode)

Starting system : Electric starter (ISG type)

Emission norms : BSVI (OBD2B)

TRANSMISSION

Clutch : Dry - Centrifugal clutch

Primary transmission : CVT (Continuous Variable Transmission)

Primary reduction : 2.74 to 0.80

Secondary reduction : 7.93

CHASSIS

Overall length : 1861 mm

Overall width : 740 mm

[†] Under warm condition

CHASSIS

Overall height	: 1120 mm
Ground clearance	: 163 mm (unladen)
Wheel base	: 1285 mm
Kerb weight (with toolkit and 90% of fuel)	: 115 kg
Pay load	: 150 kg
Maximum laden weight	: 265 kg
Frame	: Duplex tubular frame
Front suspension	: Telescopic suspension with hydraulic dampers
Rear suspension	: Toggle link, coil spring with hydraulic damper
Steering angle	: 90°
Caster angle	: 26°

TYRE

Tyre size	
Front	: 100/80 - 12 56L Tubeless
Rear	: 110/80 - 12 61L Tubeless

Tyre pressure (in cold condition)

Front	: 1.68 kg/cm ² (24 PSI)
Rear - solo	: 2.25 kg/cm ² (32 PSI)
Rear - dual	: 2.53 kg/cm ² (36 PSI)

BRAKES

Front	: 220 mm dia Disc (hand operated)
Rear	: 130 mm dia Drum (hand operated)

ELECTRICAL

Ignition system	: ECU controlled ignition
Spark plug	: BOSCH - UR5KCW / CHAMPION - RG8MC4
Spark plug gap	: 0.9 ~ 1.0 mm
Battery type	: 12V, 5Ah MF battery
Generator	: Fly wheel magneto 12V, 230W
Head lamp	: 12V, LED projector head lamp High beam 1A / Low beam 1A
Tail / stop lamp	: LED 13.5V, 0.72W / 4.4W
LED front combination lamp with turn signal lamp	: Position lamp 13.5V, 3.7W Turn signal lamp 13.5V, 7W
Rear turn signal lamp	: 13.5V, 4W LED



Caution

Using the bulb other than the specified rating can result in overloading of the electrical system or premature failure of the bulb.

ELECTRICAL

Number plate lamp	: 12V, 5W
Instrument cluster	: Hybrid cluster (TFT + LCD)
Horn	: 12V, 2.5A DC
Fuse (blade type)	: 12V, 30A x 1, 15A x 1, 10A x 2, 7.5A x 1 & 12V, 5A x 2
Fuse (cartridge type)	: 12V, 60A x1

CAPACITIES

Fuel tank capacity [#]	: 5.8 l
Fuel	: BS VI petrol with minimum RON 98 (containing upto 20% of ethanol by volume)
Engine oil grade	: TVS TRU4 SKUUTA oil (SAE 10W/30 API-SL, JASO MB)
Engine oil capacity	: 880 ml (during regular service) 930ml (incase of disassembly)
Transmission oil capacity	: 120 ml (during regular service) 130ml (incase of disassembly)
Front fork oil grade	: IOC / HPCL / Castrol - Gabriel Premium front fork oil
Front fork oil capacity	: 94 ± 1 cc per leg
Brake fluid	: TVS Girling DOT 3 / DOT 4

[#] The fuel tank is not a measuring instrument and the capacity of fuel tank may slightly vary from the indicated capacity.



Specifications are subject to change without notice.

Dear Customer,

It is mandatory under the Motor Vehicles Act to insure all motor vehicles. No motor vehicle can be used in a public place without a valid policy of insurance issued by an authorised insurer. Driving a motor vehicle without any such insurance is an offense under Motor Vehicles Act.

To assist our Customers on their insurance requirements such as the prompt issue and renewal of policies as well as expeditious settlement of claims if any, our preferred insurers are:





ALWAYS USE TVS-M GENUINE PARTS



TVS MOTOR COMPANY LIMITED

P. B. No. 4, Harita, Hosur - 635 109, Tamil Nadu,
India. Tel: +91 (4344) 276780 | Fax: +91 (4344)
277311 / 276878 Website:

www.tvsmotor.com/tvs-ntorq/ntorq-xp
www.tvsntorq.com | Toll-free No.: 18003157117