



TVS RAIDER

THE WICKED RIDE



OBD II B

USER MANUAL



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.

24 / 7
**ROADSIDE
ASSISTANCE**
TOLL FREE NO. 
1800 258 7111



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.[†]

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



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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

1. TVS Motor Company Limited

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

TAMILNADU - 3

3. TVS Motor Company Limited

Sastha Square, 2nd Floor,
No. 46/4, 5, 46/6A6,
Bypass Road, Kalavasal,
Next to Bharat Petroleum, Ponmeni,
Chandragandhi Nagar,
Madurai - 625 016.
Email : AO.Madurai@tvsmotor.com

KERALA

4. TVS Motor Company Limited

Ambady Towers, Second Floor,
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Edappally PO, Cochin - 682 024.
Phone : 0484 - 2544578/2556938
Email : AO.Cochin@tvsmotor.com

KARNATAKA - 1

5. TVS Motor Company Limited

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Konappana Agrahara Village,
Begur Hobli, Electronics City phase 1,
26A, 1st Main Rd,
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Email : AO.Bangalore@tvsmotor.com

KARNATAKA - 2

6. TVS Motor Company Limited

5th Floor, Marvel Ecron building.
CTS No-4784/A1/B2
Gokul Road, Hubballi - 580 030.

TELANGANA

7. TVS Motor Company Limited

Rukumani Towers, First Floor,
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Paigha Colony, Behind Anand Theater,
Secunderabad - 500 003.
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ANDHRA PRADESH

8. TVS Motor Company Limited

1st Floor, Passport Office Building,
Sri Venkateswara Theatre,
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Vijayawada - 520 010.
Email : AO.Vijayawada@tvsmotor.com

MAHARASHTRA - 1 & 2

9. TVS Motor Company Limited

Polaroche Business Avenue, #302,
3rd Floor, CTS No. 218/3, Airport Road,
Opposite Symbiosis Law School,
Lohegaon,
Pune - 411 047.
Email : AO.Pune@tvsmotor.com

MAHARASHTRA - 3**10. TVS Motor Company Limited**

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Shriram Shyam Towers,
Near LIC Square, Sardar,
Nagpur - 440 001.
Phone : 0712 - 2569932
Email : Service.Nagpur@tvsmotor.com

CHATTISGARH**11. TVS Motor Company Limited**

Office No. B518- B527, 5th Floor,
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Email : AO.Raipur@tvsmotor.com

GUJARAT**12. TVS Motor Company Limited**

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Chinar Fortune City,
Near Brindhavan Dhaba,

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Scheme No. 94, Ring Road,
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RAJASTHAN - 1 & 2**15. TVS Motor Company Limited**

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2nd Floor of National Motors Building,
Jhotwara Industrial Area,
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Phone : 0141 - 5150901/5150902
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DELHI, HARYANA, UTTAR PRADESH WEST & UTTAR PRADESH HILLS**16. TVS Motor Company Limited**

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Plot No. 11, Sector-Techzone - 4,
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PUNJAB & CHANDIGARH**17. TVS Motor Company Limited**

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UTTAR PRADESH CENTRAL & EAST**18. TVS Motor Company Limited**

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Bailey Road, Rukanpura,
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Ranchi - 834 002.
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Revision 1, As on 6th Jan 2026

Dear Friend,

Thank you for choosing the all-new TVS Raider, the wicked ride.

As a proud owner of TVS Raider, you are now a part of a family of millions of satisfied TVS customers.

Your TVS Raider comes with animalistic LED headlamps and chunky tyres, the best-in-class pick up revved from its unique 3-valve engine, comfort of split seats, and mono-shock suspension and safety of disc brakes ensuring a wicked performance. What's more, the dual ride modes put the W in the Wicked, letting you switch from zipping through traffic to zooming ahead on a wide-open road, all at the touch of a button.

This manual explains the features and operations of your TVS Raider. Please read it carefully and follow the instructions to enjoy years of safe riding.

To ensure reliable performance, we urge you to get your TVS Raider serviced only at TVS Motor Company Authorised Main Dealers / Authorised Dealers at specified regular intervals.

Happy Riding!

TVS MOTOR COMPANY LIMITED



NOTICE



Take time to familiarize yourself with your TVS Raider 125 and its performance characteristics.

This manual is designed to help you to maximize the performance of your TVS Raider 125. Inside this manual, you'll find essential guidance on riding techniques and maintenance tips. By following these instructions carefully, you can ensure optimal performance and longevity of your vehicle.

Get familiarised with the operation of your TVS Raider 125 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 Raider 125 does the same.

All information, illustrations, photographs and specifications contained in this User 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 User 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 User Manual.

Note

Accessories shown in the picture may not be part of the standard equipment. Pictures shown in this manual are of TVS Raider 125 disc brake model unless specified.

Your motorcycle is provided with always glowing head lamp. The head lamp glows automatically once the engine is started. Since your vehicle is fitted with side stand cut-off system ensure to retract the side stand before starting / moving the vehicle.

TVS Raider 125 comes with 'SYNCHRONIZED BRAKING TECHNOLOGY - SBT' which offers superior braking control. This new braking feature automatically activates front brake whenever the rear brake is used, thereby enhancing the braking performance of the vehicle. SBT assures more safety, reduces force required while braking and ensures lower chances of skidding.



Riding this vehicle safely is a key responsibility of the rider. To support informed and safe decision-making, this User Manual provides essential operating procedures and safety-related information. These guidelines are intended to alert you to potential hazards that could cause harm to you or others. However, since it's not possible to cover every possible risk associated with operating or maintaining the vehicle, it's important to exercise sound judgment at all times.

You will find critical safety instructions presented in specific formats throughout the User Manual. These formats use particular terms that convey the following meanings:

Warning

This message might result in injury to the rider or deadly 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 TVS Raider 125. Proper running-in operation during this period helps in ensuring a maximum life and smooth performance of your motorcycle.

The reliability and overall performance of your TVS Raider 125 greatly depend on the care taken during the initial running-in period. During this period, it is especially important that you avoid operating the engine in high speed (RPM), as this can place the engine parts under undue stress. To ensure optimal engine health and longevity, please adhere to the recommended maximum speed limits during the running-in phase:

Maximum 50 km/h speed upto 1000 km for TVS Raider 125 (vary the engine speed for better mating of parts).

The first free service at 750 ~ 1000 km or 30 ~ 45 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 of the engine.

Caution

Replacing the engine cum transmission oil during first free service is most important for better life of engine. Always use TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2) for better performance and life.

*Since your motorcycle is fitted with Evaporative Emission Control System, **the motorcycle should not be laid on the floor during water wash**. Else it may lead to difficulty in starting and improper running of the motorcycle.*

SAFE RIDING RECOMMENDATIONS

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

Familiarise yourself with new TVS Raider 125

Riding skill and your mechanical knowledge form the foundation of safe riding practices. We suggest you to practice riding TVS Raider 125 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 to 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. Sit erect on the seat at the position which you feel most comfortable.
2. Keep your arms relaxed to give extra cushion for body on uneven road surfaces.
3. Keep right arm and foot close to the brake lever and pedal, so as to enable fast action during panic braking.
4. 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 foot rest. 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 become thoroughly familiar with the operation of the vehicle.

5. Alter your sitting location / posture slightly at intervals during long rides. This will reduce fatigue.

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 brake is safer.
4. Never depress the clutch lever while braking at higher speeds.
5. **Apply both the brakes.** 'SBT' provides additional braking even when 'Only Rear brake' is applied, But applying 'Both the brakes' helps you use the full potential of the brakes.

6. Riding down hills, while cornering and wet roads, close the throttle and down shift the gear to take advantage of gearbox and engine which acts as an additional brake. This will avoid the loss of control over the vehicle due to over speed.

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.

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.

*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.

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.**

ACCESSORY INSTALLATION AND SAFETY TIPS

Use extreme caution while selecting and installing the accessories for your motorcycle.

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 the accessories **should not obstruct lighting, steerability, suspension level and ground clearance.** Please ensure that, if the tank cover is used, it is not getting en-trapped between fuel tank and fuel tank cap.

Additional electrical equipment is not acceptable as it will void the warranty terms of the vehicle.



EMISSION CONTROL

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 / 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 motorcycle 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 TVS Raider 125 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.

Evaporative Emission Control System

The TVS Raider 125 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.



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.

VEHICLE IDENTIFICATION NUMBER

Serial numbers of both frame and engine are required for vehicle identification. They are also required to assist your Dealer for ordering parts or referring to special information.



The frame serial number is stamped on the right side of the steering head tube.



Engine serial number is stamped on the top surface of the left side crankcase assembly near the cylinder block.



LOCATION OF PARTS - HANDLE BAR



1. Horn switch
2. Turn signal lamp switch
3. Clutch lever
4. Pass by switch
5. Rear view mirror L
6. Beam control switch
7. Info switch
8. Digital speedometer
9. Ignition cum steering lock
10. Master cylinder*
11. Rear view mirror R
12. Mode selection switch
13. Front brake lever
14. Throttle grip
15. Electric starter switch
16. Fuel tank cap

* Applicable only for Disc Brake version

LOCATION OF PARTS - VEHICLE LEFT SIDE

1. Front wheel axle
2. Gear shift lever
3. Centre stand
4. Side stand
5. Rider foot rest L
6. Pillion foot rest L
7. Rear wheel axle
8. Lady foot rest**
9. Saree guard**
10. Reflex reflector

** Mandatory and optional accessory will be charged extra



LOCATION OF PARTS - VEHICLE RIGHT SIDE

1. Disc plate front*
2. Front wheel axle nut
3. Caliper assembly front*
4. Spark plug
5. Gauge oil level
6. Rear brake pedal
7. Rear shock absorber
8. Rider foot rest R
9. Pillion foot rest R
10. Rear wheel axle nut
11. Rear brake adjuster
12. Muffler assembly
13. Pillion handle

* Applicable only for Disc Brake version

LOCATION OF PARTS - VEHICLE FRONT & REAR



FRONT

1. Turn signal lamp front L
2. LED headlamp assembly
3. Turn signal lamp front R

REAR

1. Tail lamp assembly
2. Turn signal lamp rear R
3. Reflex reflector
4. Turn signal lamp rear L

CONTROL KEY

TVS Raider 125 comes with a pair of identical control keys. These keys are to operate ignition cum steering lock, fuel tank cap and seat lock.

IGNITION CUM STEERING LOCK

There are three positions in the ignition cum steering lock. They are:

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. Key cannot be removed.



3. 'LOCK' position

TVS Raider 125's steering can be locked in both 'left' and 'right' directions. To lock the steering, turn the handle bar all the way to the 'left' or 'right' direction. Push the key 'IN' and turn it to the 'LOCK' position and take out. All the electrical circuits are turned 'OFF' in this position.

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

Warning

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

Caution

Before turning the ignition key to 'ON' position, ensure the availability of adequate fuel in the tank to avoid dry run of fuel pump. Fuel level always to be maintained above single bar.

Never run the fuel pump dry to avoid failure of fuel pump.

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

Note

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

Digital speedometer's back illumination, position lamp, tail lamp and number plate lamp glows automatically once the ignition is turned 'ON' without activating any other switches. The headlamp starts to glow along with above lamps once the engine is started.

When the ignition switch is turned 'ON', the speedometer performs self diagnostic cycle. Wait till the '0 km/h' details appears on the display.

HANDLE BAR LEFT SIDE

1. Info switch

Info switch 'i' is used erase the stored value in cluster / to accept or reject the incoming call / voice assist invoking, also ongoing call can be ended. Low fuel auto navigation can be accepted or rejected etc.. (Refer page no 43, 44 and 50 for details)

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 the respective turn signal lamps (LH/RH). Press the switch to turn 'OFF'.



4. Clutch lever

Use the clutch lever to disengage the drive to the rear wheel while shifting the gears. Squeezing the lever towards grip disengages the drive.

5. Pass by switch

Press the switch to flash the headlamp high beam. It is used to give signal to the vehicles coming from opposite direction while overtaking other vehicles during day. If the switch is pressed while the headlamp is turned 'ON' and glowing in high beam, there will not be any change in the beam of headlamp.

6. Beam control switch

The headlamp beam (high/low) can be controlled by pressing the beam control switch.

Press the switch towards '' to turn-on the headlamp high beam or press the switch towards '' to turn-on the headlamp low beam.



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.

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

Note

Headlamp glows only when the engine is in running.

HANDLE BAR RIGHT SIDE



1. Mode selection switch

To change the mode between 'ECO' or 'POWER', mode selection switch is used. Keep the switch in respective mode to activate it.

Please remember that the 'TVS intelliGO' system will work only on selecting the 'ECO' mode.

2. Front brake lever

The front brake is applied while squeezing the front brake lever gently towards the throttle grip. The brake lamp glows on application of front brake.

3. Throttle grip

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

4. Electric starter switch

Ensure that the transmission is in neutral or else press the clutch lever. Also ensure that the side stand is retracted before engaging the electric starter switch '  '.

Warning

Since your vehicle is fitted with SBT brake system it is essential to maintain the brake system in good condition. Adjust the brakes system at regular intervals for the proper working of SBT.



DIGITAL SPEEDOMETER

The TVS Raider is equipped with a 'Fully Digital Connected Speedometer' featuring a reverse LCD display and a range of innovative features, including Bluetooth® connectivity, Real-time indication. Average mileage indication, Time indication, Distance to empty, Digital odometer, Trip meters (A, B, and F), Service reminder, Helmet indication, Economy and Power mode indications, side stand indication etc.

Upon ignition, after self-check, the users are greeted with a welcoming message as illustrated, if your smart phone is not paired with the connected speedometer.

HELLO
RIDER

But if your phone was paired earlier, then the name of the person as stored in the app (if stored) will be displayed instead of 'RIDER'.

Note

The name stored in the app has more than 11 characters the connected speedometer scrolls the name from right to left at readable speed.



1. Turn signal indicator lamp left (⬅)

Flashes when the left side turn signal indication is activated.

2. High beam indicator lamp (💡)

Glowes when the headlamp high beam is activated.

3. Side stand indicator (⚠)

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

Note

In geared condition, if the side stand is deployed the vehicle will not start. In neutral condition, if the side stand is deployed the vehicle will start but as soon as the gear is engaged the vehicle will switch 'OFF'.

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

4. Malfunction indicator lamp - 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 / blinking continually even after the starting the engine, immediately contact the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer. Please remember that the 'TVS intelliGO' system will not work if the MIL indicator is 'ON'.

5. 'TVS intelliGO' ()

Fuel is consumed unnecessarily when the engine is in idling (e.g. 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 your motorcycle to automatically shut down the engine when it is kept idling for long and restarted easily **at any time within 5 mins from stop** just by applying throttle (open and close) when the vehicle is in neutral or by applying clutch and performing throttle operation (open and close) when the vehicle is in gear engaged condition.

We recommend to use this 'TVS intelliGO' system to improve fuel economy and to reduce the emission.

Activation of 'TVS intelliGO' system:

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

1. 'Mode' switch is in 'ECO' mode
2. Engine is warmed up and
3. When the vehicle speed is more than 5 kmph



When the vehicle meets the above conditions, the 'TVS intelliGO' system gets enabled and the intelliGO indicator '**(A)**' in the digital speedometer glows continuously 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 intelliGO indicator starts blinking instead of glowing and a countdown timer starts counting from 3, 2, 1 and once engine is switched off, TVS intelligo enabled message will be displayed.

Now, the intelliGO indicator again starts glowing continually during the engine stop to indicate that the vehicle has stopped due to 'intelliGO' system.

Note

'TVS intelliGO' system works only when the vehicle is in 'ECO' mode (refer page no 21 for details). The vehicle, shut down by intelliGO system can be restarted easily just by applying throttle (open and close) when the vehicle is in neutral or by applying clutch and performing throttle operation (open and close) when the vehicle is in gear engaged condition.

Deactivation of 'intelliGO' system:

1. 'TVS intelliGO' system will be deactivated if the 'MODE' switch is positioned at 'POWER' mode.
2. If the ISG malfunction indicator '' or engine malfunction indicator '' is 'ON', the intelliGO system will not get activated.
3. If there are 5 unsuccessful start of the vehicle either by electric start or by intelliGO restart method the intelliGO system will not get activated.
4. **If vehicle is not restarted within 5 mins from idle stop, then intelliGO system will be deactivated.**
5. During low battery condition the intelliGO system will be deactivated.

Prolonged idling:

When vehicle is in idling with the engine temperature high enough to maintain stable engine idling rpm and the 'Mode' switch is in 'ECO' mode, then the intelliGO system will be activated.

When 'TVS intelliGO' is enabled, the intelliGO lamp blinks for predetermined time and then the engine stops.

The intelliGO lamp will glow after the vehicle has stopped due to this feature. By applying throttle (open and close) the engine can be restarted again at any time within 5 mins from the stop of the vehicle.

Note

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

Vehicle can be started at any point of time using electric start when the engine is in stall condition and the ignition key is in 'ON' condition.

'Mode' selection switch can be toggled any point of time.

If vehicle is stopped by 'TVS intelliGO' system, and the 'Mode' switch is toggled from 'ECO' to 'POWER' and back to 'ECO', the intelliGO system will be initiated from beginning but the vehicle can be restarted by the electric start.

6. Turn signal indicator lamp right (➡)

Flashes when the right side turn signal indication is activated.

7. Trip meter A, B & F / 8. Odometer / 9. Fuel gauge / 10. Economy and power mode indicators / 11. Neutral indicator lamp / 12. Speedometer / Average speed / Top speed



7a. Trip meter (A & B)

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

Provision to measure two different distance 'TRIP A' or 'TRIP B' is provided for the users to use as per their convenience.

TRIP
A

60.3 km

TRIP
B

57.3 km



Refer page no 35 for the resetting procedure of Trip meter.

7b. Trip F

'Trip F' function displays the distance travelled after the low fuel indicator '  ' starts blinking and the fuel indicator displays no bar or glows continuously with fuel gauge displaying no bar. The display switches automatically to the 'TRIP F' mode after 0.5 km run of the vehicle and the low fuel indicator starts counting from 0 km.

If the fuel level remains in minimum safe level, the reading is saved even after the ignition 'OFF'.

The count stops and clears automatically after a certain distance of run and when the fuel level rises above minimum safe level.

'TRIP F' meter cannot be activated or deactivated manually. At every ignition 'ON', 'TRIP F' meter will get enabled automatically until fuel level is reached above minimum safe level.



8. Odometer

Registers and displays the total distance covered by the vehicle in kilometers.



Note

If the ODO / TRIP A or B / TRIP F meter (whichever is in display) segments are flashing and a error message as shown below is displayed on the notification area, contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

CHECK
SPEEDSENSOR

9. Fuel gauge

Digital bars indicates the approximate fuel quantity available in fuel tank. There are five bars to indicate the quantity of fuel available in the fuel tank. All the five bars will be displayed when the fuel in the tank reaches above 8.5 liters approximately (full tank).



When the fuel reaches half tank (5.5 liters approx.) the fuel gauge displays only three bars as shown.



The fuel gauge shows only single bar when the fuel reaches reserve level (2.2 liters approx.). Refill the fuel immediately.



Once the fuel level reaches 1.2 liters approximately, no bar will be visible and low fuel indication glows continuously.



If all the fuel level bars in the cluster are starts blinking Contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

 **Caution**

*Before turning the ignition key to 'ON' position, ensure the availability of adequate fuel in the tank. That is LOW FUEL INDICATION shall not come 'ON', before the start of the vehicle. **To avoid dry run of fuel pump, never run vehicle beyond 5 km, after LOW FUEL INDICATION.***

Note

Fuel level shown is only for reference purpose and users are not encouraged to calculate mileage of the vehicle using the same.

If the side stand is in 'ON' condition, fuel gauge reading will not get updated. The fuel gauge reading gets updated once the side stand is released.

If all the fuel level bars of the connected instrument cluster starts blinking and the below error message is shown in the notification area of the speedometer, contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

CHECK
FUEL SENSOR

10. Economy and power mode indicators

Economy indicator '**ECO**' indicates that the vehicle is running in economy mode which will give you a better fuel economy. 'TVS intelliGO' system will function only in 'ECO' Mode.

Power mode indicator '**PWR**' indicates that the vehicle is running in power mode which will result in higher acceleration and power compared to economy mode.

Note

If any error occurs in the EFI system of vehicle, during ignition key 'ON' condition, irrespective of 'Mode' switch position, the vehicle will shift to Power mode and both 'ECO' and 'PWR' indication will blink for 7 seconds followed by the display of Power mode continually. Take the vehicle to any of the TVS Motor Company Authorised Main Dealer / Authorised Dealer.

If any error occurs in the EFI system post ignition 'ON', during mode change, the vehicle will remain in previous mode and both 'ECO' and 'PWR' indication will blink for 7 seconds followed by the display of the previous mode continually.

11. Neutral indicator lamp (N)

Glow when the vehicle is in neutral and goes 'OFF' if the gear is shifted from neutral.

12a. Speedometer

Indicates the vehicle speed in kilometer per hour.



12b. Average speed

Indicates the average speed in that the vehicle has been traveled in kilometer per hour.



12c. Top speed

Indicates the top speed so far that the vehicle has clocked in kilometer per hour.



The current ride's top speed continues to blink within the tachometer region while the vehicle speed is less than 2 km/h. When the speed exceeds 2 km/h, it automatically deactivates.

Note

The average speed and AFE value displayed are estimated values and the actual value may differ from the displayed one.

13. Notification area / 14. Navigation window (pictogram) 15. Helmet icon / 16. Low battery indicator / 17. Service reminder / 18. ISG malfunction indicator / 19. Voice assist / 20. Low fuel indication



13. Notification area

This is a general purpose notification area where the greeting message, various informations and warnings are displayed.



14. Navigation window (pictogram)

Once the navigation assist is turned 'ON', your TVS Raider speedometer displays "Navigation assist ON" and enters into navigation window and displays the turn by turn navigation instruction with a simple and elegant graphical representation.



Note

Please remember that the Navigation License has to be renewed after 5 years of vehicle purchase and renewal can be done by contacting nearest Dealer.

15. Helmet icon

With every ignition 'ON', helmet icon '  ' blinks for 10 seconds on the right side of the digital speedometer to remind the rider to wear a helmet.

16. Low battery indicator

An icon with battery symbol '  ' glows when the battery charges is too low.

Following error message also will be popped-up in the notification area when the low battery symbol is turned 'ON'.



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

17. Service reminder ()

If the service is due, whenever the ignition switch is turned 'ON', an icon with spanner symbol blinks for 10 seconds after the self test cycle of speedometer and continues to glow till the vehicle is serviced and reset. "Service Due" statement will be flashed as a warning.

SERVICE
DUE

Get the vehicle serviced at TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Note

Service reminder indicator lamp works only based on the distance (km) covered by the vehicle. This is only a reminder indicator. Customers are advised to keep track and follow the service schedule.

18. ISG malfunction indicator ()

ISG malfunction indicator will be turned 'ON' when there is a fault in the ISG system.

If the ISG malfunction indicator is glowing continually after the self check cycle of the speedometer, immediately contact the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Please remember that the 'TVS intelliGO' and 'Torque assist' system will not work if the ISG malfunction indicator is 'ON'.

19. Voice assist ()

Once the voice assist is activated via 'TVS Connect app', the voice assist symbol will be displayed in the speedometer

20. Low fuel indication ()

Low fuel indicator blinks when the fuel level is about to reach minimum safe fuel level. It glows continuously when the fuel comes below minimum safe level.



21. Digital clock / 22. Torque Assist Indication / 23. Gear position indicator / 24. Gear shift indicator / 25. Tachometer / 26. AFE / DTE indicator



21. Digital clock

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

5:06 PM

Note

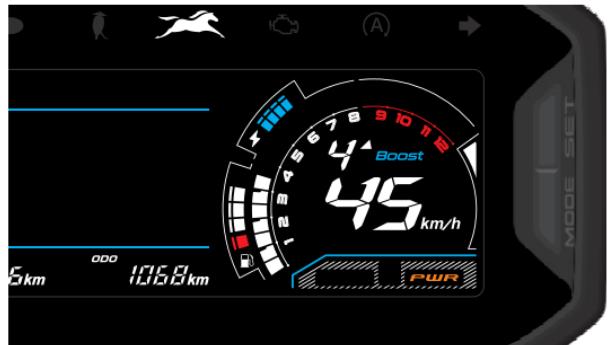
If the battery is disconnected and reconnected during service. You may need to reset the time as explained in page no 37.

22. Torque Assist (Boost) Indication

Torque Assist Function 'Boost' enhances the engine's power during sudden Acceleration, thereby reducing the strain on engine and consequently improving its longevity and performance.

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

1. The vehicles battery voltage is more than 12.5 Volts.
2. The engine temperature exceeds approximately 55° C.
3. Vehicle gear should not be in Neutral condition



How to Activate the Torque Assist

1. Once Torque Assist is available - by giving sudden throttle acceleration, this torque assist can be activated, and it is indicated in the speedometer.
2. Torque Assist can be used approximately for a time of 8 seconds.

How to deactivate from Torque Assist

1. While using the Torque Assist, if the throttle is decelerated or the vehicle speed exceeds 80 kmph - at these conditions, system will get out from Torque Assist and enters into charging period.
2. After using the Torque Assist for 8 seconds, the system will automatically enter charging period.

Once the charging period is completed, Torque 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.

Indication in speedometer:

1. "BOOST" and "BOOST BAR GRAPH" indication is 'ON' – Torque Assist is ready to use.
2. "BOOST" and "BOOST BAR GRAPH" indication is 'Blinking' - Torque Assist is in use.
3. "BOOST" and "BOOST BAR GRAPH" indication is 'OFF'.

23. Gear position indicator

The gear position indicator in the digital display indicates the position of the gears.



When gear position indicator displays the error message as shown below, apply the clutch to start the vehicle.



Contact TVS Motor Company Authorised Main Dealer / Authorised Dealer to rectify the error.



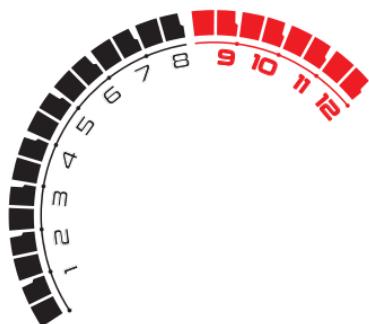
24. Gear shift indicator

Gear shift indicator arrows alerts the user to up shift or down shift the gears when engine reaches the pre defined engine rpm.



25. Tachometer

The tachometer indicates engine speed, with each bar representing 500 rpm (Revolutions Per Minute) increments and the numerical display showing speed in multiples of 1000 rpm.



26a. DTE indicator

Indicates the approximate distance that can be covered by the vehicle with the available fuel in the tank.



In case of any error in the system the message '--- km' will appear without range reset. Contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.



When the DTE becomes 0 km, the indication '--- km' will be displayed until the fuel is refilled.

26b. Average fuel economy indicator

Indicates the approximate average mileage that the vehicle has achieved so far from last reset.
Refer below for the resetting procedure of average mileage indicator.

AFE
5 km/L

When average fuel economy value is reset, then for the first 1 km, ' - km/L' will be displayed and then the calculated average mileage value will be updated for every 2 km.

In case of any error in the system the error message ' - km/L' will appear. Contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

AFE
- - km/L

If the fuel is filled above 8.3 liter, then the range indication displays ' - km'. Range will be displayed when the fuel left in tank is below 8.3 liter, also when Low fuel indication ON. Range will be show ' - km'.

If either 'DTE' or 'AVG' is reset the values of both the indicators will be reset and updation will happen after 1 km of reset.

MODE AND SET BUTTONS

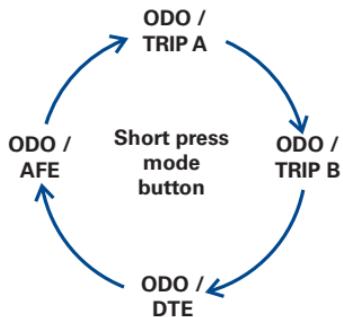


The 'Mode' (A) and 'Set' (B) buttons are provided to change between various modes and to set the some of the digital display functions of the digital speedometer. The sequence of modes and their selections are explained in detail below.



Short press the 'Mode' button to access the following modes:

- 1. Trip A
- 2. Trip B
- 3. DTE
- 4. AFE

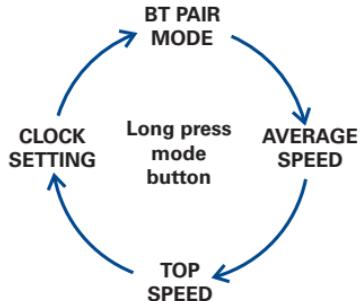


1. In 'Trip A' mode, press the 'Mode' button once to enter 'Trip B'.
2. In 'Trip B' mode, press the 'Mode' button once to enter 'DTE' indicator mode '**155km**'.
 - To reset the 'DTE' value while ensuring that the display in 'DTE' mode '**155km**', press and hold the 'Set' button for a few seconds.

3. In 'DTE' mode, press the 'Mode' button once to enter 'AVERAGE FUEL ECONOMY' indicator mode ' $\frac{A F E}{5 \text{ km/L}}$ '.
 - To reset the 'Average Fuel Economy' indicator while ensuring that the display in Average Fuel Economy mode ' $\frac{A F E}{5 \text{ km/L}}$ ', press and hold the 'Set' button for a few seconds.
4. Press the 'Mode' button once again to change the display to 'TRIP A' mode again.

On long pressing the 'Mode' button, the following modes can be accessed.

- 1. BT PAIR MODE
- 2. AVERAGE SPEED
- 3. TOP SPEED
- 4. CLOCK SETTING



1. Long press the 'Mode' button to enter 'Average speed' from any mode except BT pair mode.
 - To reset the 'Average speed' while ensuring the display is in 'Average Speed' mode '' , press and hold the 'Set' button for a few seconds.
2. In 'Average speed' mode, long press the 'Mode' button to enter 'Top speed' mode.
 - To reset the 'Top speed' while ensuring the display in 'Top speed' mode '' , press and hold the 'Set' button for a few seconds.
3. In 'Top speed' mode, long press the 'Mode' button to enter 'Clock setting'.

To reset the 'TRIP A' or 'TRIP B' meter

- Turn 'OFF/ON' the speedometer and the speeometer enters into default BT pairing mode.
- Once the vehicle speeds exceeds 2 km/h, the speedometer exits BT pairing mode and returns to previous 'TRIP A' or 'TRIP B' mode.
- Now press and hold the 'Set' button for a few seconds to reset the respective trip meter.

Else,

- Long press the 'Mode' button and enter into normal display of the speeometer (either 'TRIP A or TRIP B' mode) as explained earlier.
- Now press and hold the 'Set' button for a few seconds to reset the respective trip meter.

Clock setting

- On entering the clock setting mode, the digital clock starts blinking. Now, press the 'Set' button. On pressing the 'Set' button, the hour digits of the clock starts blinking and enables you to change the hours. Press the 'Mode' button to increase the hours while hour digits are blinking.
- On pressing the 'Set' button again the hours gets set and the minute digits starts blinking.
- Now, press the 'Mode' button to increase the minutes while minute digits are blinking.
- Once again press the 'Set' button so that the minutes of the clock is set and the hours format 'AM' or 'PM' starts blinking.
- Press the 'Mode' button to change the hour format either to 'AM' or 'PM'.

- Press the 'Set' button once again to set clock and long press 'Mode' button to come out of clock setting mode.

4. Press the 'Mode' button once to change the display to 'ODO' mode again.

Note

Above mode changes are possible only when the vehicle is in static condition for safety.

If no input is given for more than 20 secs during clock setting, the digital speedometer comes out of this setting mode automatically.

BT PAIRING

On every ignition ON and after welcome animation is completed, the instrument cluster displays its Bluetooth pairing name (unique for each cluster) in information panel.

240005 TVS
BT PAIR MO

The connected instrument cluster of your TVS Raider 125 can be connected to your Android™ smart phone and iPhone® via Bluetooth® through a **TVS CONNECT** app which can be downloaded from Google Play store and the App Store®.



TVS CONNECT

CONNECTION SUCCESSFUL

First time Bluetooth paring:

To pair your Android smart phone or iPhone with your TVS Raider 125's connected instrument cluster, via Bluetooth, for the first time, follow the procedure as described below :

1. Switch 'ON' the vehicle.
2. Speedometer can be in any mode for first time pairing.
3. Open the app and press the '**CONNECT**' tab, ensure the smart phone is near to the vehicle.
4. The app searches for all Bluetooth devices near by and displays the list of devices available.
5. The connected instrument cluster's Bluetooth name is prefixed by TVSRD and followed by alpha-numeric digits. Ex : 'TVSRDXXXXXX'. This Bluetooth name can be found in the speedometer dial after turning the ignition 'ON'.
6. Now, select the 'TVSRDXXXXXX' in the app to initiate the pairing process.
7. On pairing, the LCD display of connected instrument cluster displays a message 'Connection Successful', after this your current location data is given as a visual message for 5 sec.

8. In Addition to this icons, phone's battery level icon, mobile signal strength level, incoming call icon, unread message icon and location icon will be present on the top near clock.



Eye Note

During 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 Raider 125's connected 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.

Any number of Android phones can be auto paired with the instrument cluster, but only one at any point of time will be in actively connected with the speedometer.

Only one iPhone can be auto paired with a single instrument cluster at a time. If the user needs 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 'Forget This Device' from Bluetooth settings.

Eye Note

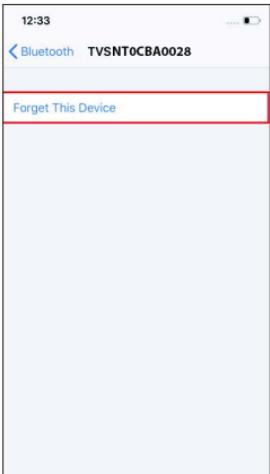
For IOS app, before first time connection makes sure to check whether app get directly connected with BLE settings or not.

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:



1. In the previous connected iPhone, open the SETTINGS -> BLUETOOTH.
2. Select the instrument cluster, which was connected previously.
3. Click on the “Forget this device”.

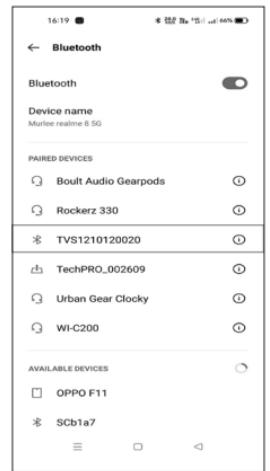
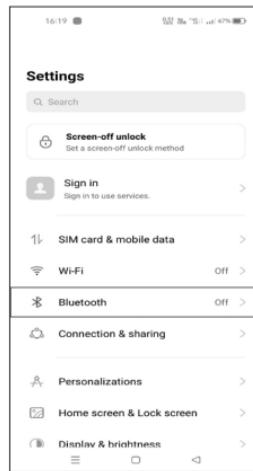


Or do the long press on the Connect button of the App and do the Forget devices.

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.



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

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-paring works with your TVS Raider'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.

Auto pairing:

Once the first time pairing is done between vehicle's connected speedometer and your smart phone, the smart phone.

Auto pairing

Once the first time pairing is done between vehicle's 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. First time pairing is ensured.
3. 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 LCD display shows 'Connection Successful' along with the name of the phone.

CONNECTION
SUCCESSFUL

If your smart phone is disconnected from the vehicle's instrument cluster then, 'Device disconnected' message will be displayed on the connected instrument cluster's LCD display.

DEVICE
DISCONNECTED

Once the device gets connected the speedometer will sync mobile battery, mobile tower and clock information automatically.

Incoming call alert display

The connected instrument cluster's LCD will display the incoming calls alerts from the smart phone via Bluetooth. Ex. 'Call from TVSM', will be displayed if the contact is stored in the smart phone's otherwise number will be displayed. Ex. 'Call from ... 9999999999', call states will change from incoming to ongoing once the call is accepted, call ended once call is ended, and call rejected once the rider rejects the call.

CALL FROM
9999999999

CALL FROM
TVSM



By pressing the 'Info switch' the incoming calls can be accepted or rejected. To accept the call, long press the switch, to reject short press the switch and to end the ongoing call short press the switch.

Incase if the incoming call is missed, the number of missed calls will be displayed in information panel for 10 seconds.

01
MISS ED CALL

SMS alert display '✉'

The connected instrument cluster's LCD displays the incoming SMS from the smart phone via Bluetooth. Ex. 'SMS FROM TVSM', will be displayed only if the contact id stored in the smart phone.

SMS FROM
TVSM

Navigation display:

Once the navigation assist is turned 'ON' in the app, the display of your TVS Raider 125 motorcycle's connected instrument cluster shows the 'Navigation Assist ON' message in information panel.

NAVIGATION
ASSIST ON

Once the destination is set in the app., the instrument cluster displays the turn-by-turn navigation instruction with a simple and elegant graphical representation on LCD.

On receipt of the navigation commands from the mobile app, the same will be indicated by the speedometer to the user using the alpha-numeric display as shown below:

450m
➡ TURN RIGHT

By long pressing 'INFO' switch while in navigation you can see distance and time remaining in information panel.

TIME LEFT
ETA-10:21AM

The route suggested by the app is not followed and alternate route is taken, re-routing will be done by the app and the same will be displayed by connected speedometer as shown:

RE-ROUTING



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 Dealer.

High speed alert:

The connected instrument cluster's LCD displays a high-speed alert. If cluster not connected to app, then default high speed of 80 kmph is set.

If cluster is connected to app and app has high speed alert enabled in the vehicle setting under general setting, then whatever limit is set is taken as high-speed alert.

HIGH SPEED
ALERT

Phone battery low indication:

If the connected smart phone 's battery charge status is lesser than 10% then, the speedometer displays the below warning message:

PHONE LOW
BATTERY

Music Display:

You can play music in mobile app and cluster will show music name on information panel like "MEDIA ILLUMINATI!"

MEDIA
ILLUMINATI



TVS CONNECT APP



Dedicated smart phone app is available in the Google Play and the Apple store for your TVS Raider 125 and it can be installed in your Android smart phones and iPhones. To access the features of your TVS Raider 125's connected instrument cluster like:

- Incoming call alerts in connected instrument cluster.
- Incoming SMS alerts in connected instrument cluster.
- Image transfer feature.
- Missed call alert in connected instrument cluster.
- Voice assist & smart talk.
- Battery status of your smart phone in connected instrument cluster.
- To send auto reply SMS to the callers via smart phone (applicable only for Android smart phones).
- '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 save the last traveled route.
- To locate the last parked location of your TVS Raider 125.
- 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.
- To control the background illumination of the instrument cluster.
- Traffic screens.

This dedicated mobile app of your TVS Raider 125 can be downloaded from the Google Play and the Apple store by searching the key word '**TVS CONNECT**' else by scanning the below QR code.



Android



iOS

Note

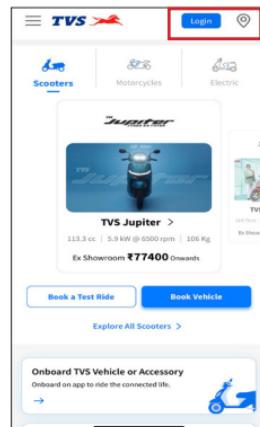
This smart phone app is compatible only for the smart phones with Android OS version Kitkat (4.4) and above, iOS version 13 and above and the BLUETOOTH version 4.0 and above.

Android and Google Play are trademarks of Google LLC. App Store® and iOS are trademark of Apple.

The smart phone app is updated time to time to capture upgrades to the mobile operating system. Though these updates are tested on the majority of the mobile phones in the market before release, it may lead to disablement of few functions on some of the operating system.

How to login

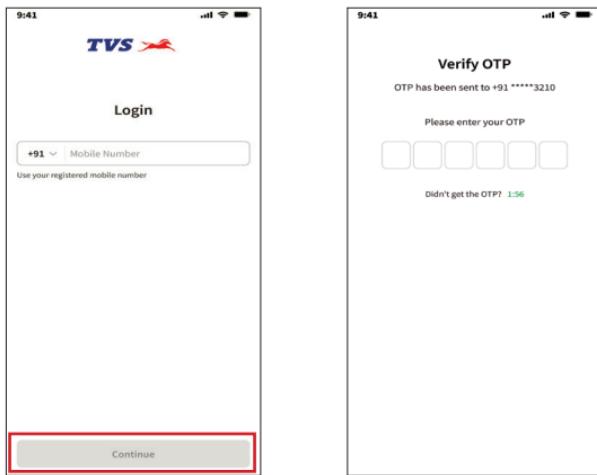
On opening the TVS CONNECT App the following introductory screen will be displayed.



Click on the 'Login' tab provided at the top of the screen to begin a login process.

On entering the login screen you will be prompted for your registered mobile number entry. Enter the mobile number and press 'Continue' tab to proceed further.

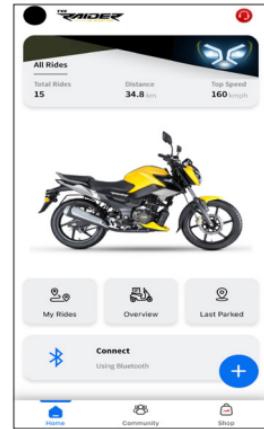
An logging in successfully the default vehicle screen opens as shown below with various informations.



Now, an OTP verification screen will get open. Key-in or copy & paste the OTP received from TVSM to login.

Note

During login process, will be prompted for various permissions by the App. Provide necessary permission to the app to work seamlessly.



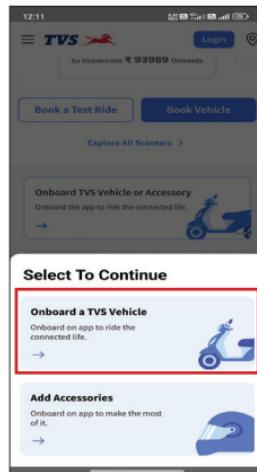
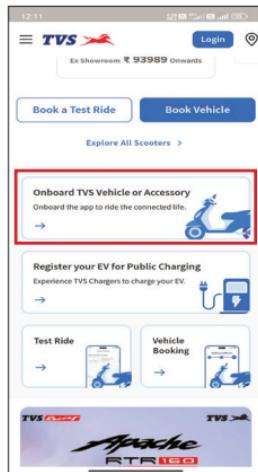
Note

Refer App help for complete details.

Onboarding TVS Vehicle

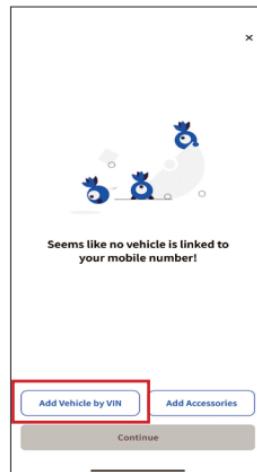
You can onboard your TVS vehicle into the App by following the procedure given below:

- Scroll down the initial screen and click on the 'Onboard TVS Vehicle or Accessory' tab and select the 'Onboard a TVS Vehicle' option.



- On selecting this option, a screen with options of adding your vehicle or accessories will get open. Select the 'Add Vehicle by VIN' tab of the screen.
- Now, Another screen gets open with the VIN number and Invoice date or Engine/Motor number entering options.

Key-in the necessary data to add the required vehicle and press the 'Add' button at the bottom of the screen.



Note

You can get the number by chatting with us or by E-mailing to us or by calling us.

After completing the trip, whenever the vehicle is switched ON again, TVS Connect app will not connect automatically. Click the 'Connect' button of TVS connect app to connect with cluster.

VOICE ASSIST

There are two ways to invoke voice assist in your scooter:

1. By pressing the 'Info switch' for <1s.
2. By pressing the voice assist icon in the app live dashboard as shown on the image. This will work irrespective of engine is 'ON/OFF'.



Note

Voice assist will work with screen lock condition / app background condition provided background operation is allowed for the app from phone settings.

Use wired / wireless headphone for listening and talking. Voice feedback will work only if a wired / wireless headphone is connected.

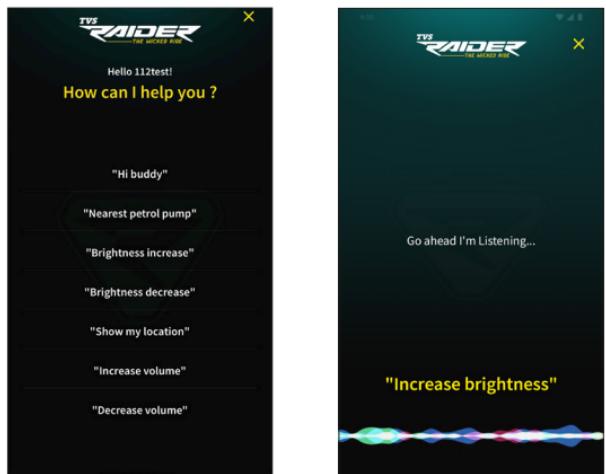
Option to enable / disable voice assistant and voice feedback is available in App settings.

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.

After invoking voice assist, "Hello, How can i help you?" will appear on the screen and "Speak now" will be heard in voice feedback.

This is when we have to start speaking / providing the command.



The following are the list of intents recognized by voice assist. You can refer page no 53 for sample commands of each intent:

- Greeting command
- Navigation command
- Nearest POI command
- Last called information command (only in Android smart phones)
- Brightness increase / decrease command
- Current location command
- Enable / Disable auto reply SMS command (only in Android smart phones)
- Enable / Disable Do Not Disturb command (only in Android smart phones)
- Volume increase / decrease command
- Weather update command
- Sport news update command
- News headline command
- Music control commands

Following are the few voice assist command screens of the instrument cluster.

Cluster brightness level adjustment

You can automatically increase /decrease brightness for better speedometer visibility via voice message. After increasing /decreasing speedometer will show "Brightness Increased" OR "Brightness Decreased" on cluster information panel.

BRIGHTNESS
INCREASE

BRIGHTNESS
DECREASE

Music player volume control

You can control mobile volume level via voice command. Upon the command the voice level will change and the cluster will display "Volume Increased" or "Volume Decreased" on cluster's information panel.

VOLUME
INCREASE

VOLUME
DECREASE

Note

Volume controlling via mobile phone may not be compatible for all the mobile phone like Redmi note pro.

VOICE ASSIST COMMANDS AND KEY WORDS

S. No.	Android voice assist commands	IOS voice assist commands
1	Hi buddy	Hi buddy
2	Nearest petrol pump	Nearest petrol pump
3	Brightness increase	Brightness increase
4	Brightness decrease	Brightness decrease
5	Show my location	Show my location
6	Who called me last	NA
7	Show top speed	Show top speed
8	Enable auto sms	NA
9	Disable auto sms	NA
10	Enable do not disturb	NA
11	Disable do not disturb	NA
12	Increase volume	Increase volume
13	Decrease volume	Decrease volume
14	News headlines	News headlines
15	Sports news	Sports news
16	Weather update	Weather update



S. No.	Android voice assist commands	IOS voice assist commands
17	Will it rain today	Will it rain today
18	Pause navigation	Pause navigation
19	Resume navigation	Resume navigation
20	Play song	NA
21	Pause song	NA
22	Next song	NA
23	Previous song	NA

* Auditory when connected with Bluetooth / earphone device

Note

The list of commands and intent will be updated periodically. Please refer to the command list mentioned in the mobile app to stay updated.

Things to do while using voice assistant:

1. We recommend to use ANC (Active Noise Canceling) Bluetooth devices for better performance.
2. Ensure Microphone is kept near to your mouth while giving out commands.
3. Please ensure that it is not exposed to outside environmental noise such as wind noise, other vehicles' noise etc.
4. We recommend you to go through the sample command list before trying your intent.
5. Kindly refer to the voice feedback of the detected place name when you provide voice command for navigation.

Things not to do while using voice assistant:

1. We recommend you not to use the method of invoking voice assist through mobile App while riding.
2. Please do not use voice assist functionality during heavy traffic condition.



Terms & Conditions

- SmartXonnect feature is now enhanced with Voice Assistance capability. This will enable the user to control certain characteristics of the vehicle in a safe manner.
- Customers can use the voice commands listed as part of the voice assistance feature to improve their riding experience.
- SmartXonnect Voice Assistance is intended to minimize the use of Mobile phones while riding, in turn providing an exciting experience with the Bluetooth enabled system. We recommend users to take caution when providing voice commands.
- SmartXonnect Voice Assistance can be experienced with the help of following entities - TVS Connect App, TVS Raider 125 and a suitable Bluetooth accessory having a microphone and speaker. Users are recommended to wear certified helmets always while riding.
- In cases where customer uses a Bluetooth neckband or headset, it is recommended to always wear helmet.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by TVS Motor Company Limited., is under license.
- Customers must always be cautious of the surroundings when using the SmartXonnect Voice Assist feature, especially while crossing intersections, in traffic, etc. Customers must always observe the roadway, signs, and signals carefully. Lack of attention can cause serious injury or loss of life. TVSM is not liable for any such mishaps.
- Customers must always obey traffic laws while riding. TVSM is not liable for any penalty caused due to user's lack of caution in obeying traffic laws
- Costs of network communication and communication equipment necessary for the use of SmartXonnect voice assist feature shall be borne by the user himself/herself.
- Some smartphones may not be compatible with the SmartXonnect Voice Assistance feature. We shall not be liable if there is delayed response from the voice assistance feature due to poor Internet connection or the phone's performance limitations.

- Use of mobile phones while riding is not safe and is prohibited as per Motor Vehicle law and rules as framed by central / state governments. Hence, Customers should not use the mobile phone while riding. We shall not be liable for any penalties, damages for any violation or trouble in the use of smartphone while riding.
- Bluetooth hands free devices are not included as part of the package
- SmartXonnect Voice assist feature also provides display information in the cluster. Users are advised to verify the voice guidance and information in the meter provided by the system carefully. If you are unsure, proceed with caution. Always use your own good judgement, and obey traffic laws while riding
- Changes in operating systems, hardware, software, and other technology integral to providing SmartXonnect Voice assistance feature, as well as new or revised governmental regulations, may result in a decrease or cessation of SmartXonnect Voice assist functionality and services. TVSM cannot and does not provide any warranty or guarantee of future SmartXonnect Voice assist performance or functionality.



RAM AIR DUCT

TVS Raider 125 is designed with a ram air duct on the right side of the fuel tank. This ram air duct throws air exactly above the spark plug while the vehicle in move.

The air thrown above the spark plug cools the plug and maintains its temperature in optimum level. Which in-turn results in better heat management without any compromise on the engine performance and improves the engine's durability.



Caution

Care should be taken not to block the ram air duct air passage by cover or any other means. Else it will lead to over heating of engine or seizure.

LED HEADLAMP

TVS Raider 125 comes with a LED headlamp which glows automatically once the engine is started. The headlamp beam (high / low) can be controlled by pressing the 'high / low' beam switch.



Headlamp glows only when the engine is running.

FUEL TANK** CAP

Flush type fuel tank cap (1) is provided in TVS Raider 125. To open the fuel tank cap, lift the protection lid (2), insert the control key into the lock and turn it in clockwise and lift the cap. Press the cap back to its original position, rotate the key in anti-clockwise direction and lock the cap. Close the lid at the end.

To avoid accumulation of water in the fuel tank, a small drain hole and a pipe is provided in the fuel tank lid cavity so that the water entering through the lid is drained out through a hose.



Warning

Avoid spilling of fuel on the hot engine.

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

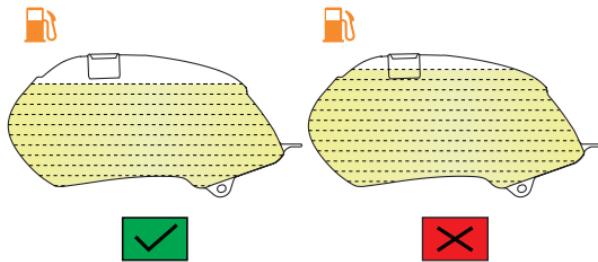
Do not use cell phones while refueling.

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



EVAPORATIVE EMISSION CONTROL SYSTEM

This vehicle is fitted with Evaporative Emission Control System (EVAP). If there is any abnormal jerk, startability issue are felt in the vehicle or noise due to sudden escape of gas while opening the fuel tank cap, immediately report to the TVS Motor Company Authorised Main Dealer / Authorised Dealer.



Caution

Do not clean the vehicle by laying down on floor, to avoid fuel entry into EVAP system.

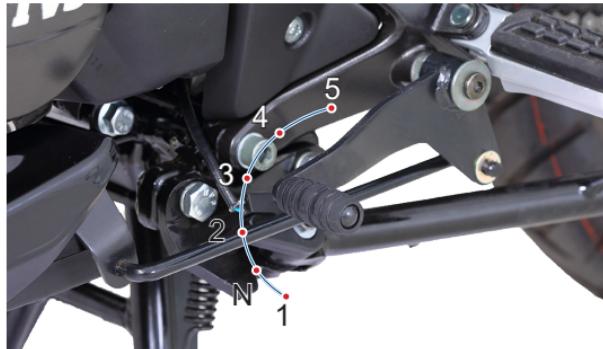
Never fill fuel beyond the fuel tank inlet as shown.
Filling above the inlet may result in improper breathing of fuel tank which leads to difficulty in starting as well as improper running of the vehicle. Whenever refueling the bike fill only the recommended quantity of fuel.

GEAR SHIFT LEVER

TVS Raider 125 is equipped with a 5 speed constant mesh transmission. Neutral (N) position of the transmission is indicated by the warning light on the speedometer. To shift the transmission from neutral to first gear, press the gear shift lever down.

To change it to the second gear, lift the lever up. Lifting the lever up repeatedly engages all the gears in succession up to the fifth gear.

The gear position indicator on the speedometer dial indicates the current position of the gear and the gear shift indicator arrows guides you to up shift or down shift the gear at pre defined engine rpm.



Caution

Never shift gears without disengaging the clutch and releasing the throttle. Failure to comply this will lead to rough shift or jerk while shifting the gears. Remember to return to neutral position before restarting the engine.



Note

Gear shift lever position can be set to your convenience. Contact your TVS Motor Company Authorised Main Dealer / Authorised Dealer for setting the gear shift lever position.

REAR BRAKE PEDAL

Rear brake pedal is located on the right side of the vehicle. Press the rear brake pedal with your right foot to apply the rear brake. The front brake also will be applied while applying the rear brake. The brake lamp glows on application of brake.



Warning

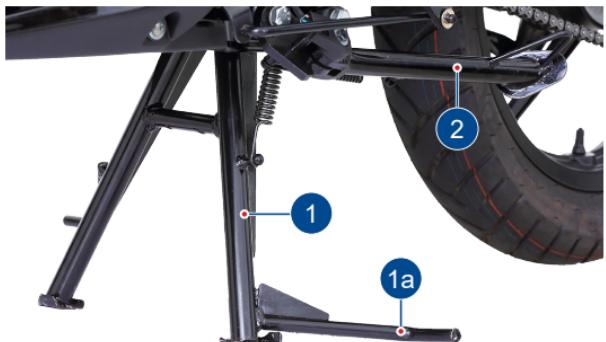
Brakes are items of personal safety and should always be maintained in proper condition.

CENTRE STAND AND SIDE STAND

TVS Raider 125 is equipped with a centre (1) and side stand (2). To place the vehicle on the centre stand, hold the handle bar left grip with left hand and pillion handle with right hand.

Place your foot firmly on the centre stand extension (1a) and press with adequate effort. Ensure both the legs of centre stand are touching the ground before placing the vehicle on the stand.

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



Warning

Park the motorcycle safely on a solid ground. On slopes, engage the first gear and park the vehicle in such a way that the front wheel faces uphill.

Always retract the side stand to its full up position before moving the vehicle. Else, the vehicle will get 'Switched OFF'.

Caution

Do not sit on the vehicle when it is parked on the side stand / centre stand, as your full weight would rest on the vehicle's only support.

SEAT

The seat lock is located at the rear end of the vehicle bellow the tail lamp assembly.

Rear seat (passenger seat)

To remove the rear seat, insert the ignition key into the seat lock and turn it in clockwise direction. Pull and take out the rear seat by lifting it from the rear end and gently tapping it on the front end and thereby accessing the tool kit and first aid kit. To install the rear seat, reverse the removal procedure.



Note

Ensure the proper seating of seat assembly in the frame after reassembling.



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. A first aid kit is also available with the tool kit.

Both tool kit and first aid kit are located in the utility box below the passenger seat. Remove the passenger seat as explained in the previous page to access them. Tool kit consists one number each of the following:

1. 12x14 mm open end spanner
2. Combination screw driver bit
3. Screw driver handle
4. Tool bag



Note

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

Warning

Do not remove the tool kit and first aid kit from the vehicle. Always ensure to keep them along with the vehicle. Ensure the first aid equipments are changed periodically based on the date of expiry.

COVER FRAME L

To access the battery assembly and the fuse, cover frame L need to be removed. Follow the procedure given below for removing and re-fixing cover frame.

For removing :

1. Remove the mounting screws (A & B) from the cover frame mounting.
2. Loosen the snap revet screws and pull out the snap rivets from the location (C,D & E).
3. Take out the cover frame by gently pulling it out at front top end and rear end of the cover frame.



For reassembling:

1. Locate the lugs of the cover frame to the holes provided in the fuel tank assembly and the frame while ensuring the availability of the cushion in the holes.
2. Gently press the cover frame lugs into the holes.
3. Install the mounting screws (A & B) and the snap revets (C,D & E).
4. While ensuring the proper seating of cover.

Note

Care should be taken not to damage the cover frame and its lugs during removal and reassembly.

While re-fixing the cover frame, ensure the availability of rubber cushion in the fuel tank hole.



SMART PHONE CHARGER**

Location for fixing a smart phone charging USB socket is provided at the front end of the fuel tank bellow the handlebar near fuel tank cap. The smart phone charging socket supplied by the company can be fitted on your vehicle on chargeable basis. Ask your Dealer to fix the same if required. Please follow the guidelines mentioned below while using it.

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 is used for charging 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 battery's state of charge.

*The rubber flap in the unit has been designed to prevent water entry and it is not replaceable. **No warranty for charger in case of rubber flap cut.***

** Optional accessory will be charged extra

PRE RIDE INSPECTION

Check the following items before riding

ITEM	WHAT TO CHECK FOR
Engine cum transmission oil	Availability of oil upto the level (page no 82)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no 91) Adequate tread depth / No cracks or cuts
Battery	Proper working of digital speedometer, tail lamp, license plate lamp, brake lamp, turn signal lamps, horn and electric starter.
Digital speedometer	Performing self check
Lighting	Proper working of headlamp high beam / low beam and high beam indicator
Steering	Smooth movement / No play or looseness
Throttle	Correct free play of cable / smooth operation
Clutch	Correct free play of cable (page no 83) Smooth and progressive action
Brakes	Availability of brake fluid and proper working of brake. Correct lever and pedal play (page no 85, 87 and 89)
Wheels	Free rotation
Malfunction indicator	Turned 'OFF' after the engine starting (page no 23)



Starting the engine

Ensure the availability of the fuel in the tank. Insert the control key into the ignition cum steering lock and turn it to the 'ON' position. After fuel pump priming (approx. few secs) keep the transmission in neutral and press the electric starter switch to start the engine. If the gear is engaged, press the clutch lever and retract the side stand before pressing the electric starter switch.

When the engine is cold

1. Start the engine with no opening / very less opening of throttle.
2. Once the engine is started and running stable ride the vehicle.



Caution

Once the vehicle is started, engine idling rpm will be high and will stabilize gradually. Do not open excessive throttle when engine is idling and the vehicle is parked. It leads to overheating of engine and damage to internal components.



Warning

Do not run the engine indoors where little or no ventilation available. Exhaust gases are extremely poisonous.

Setting the vehicle in motion

1. Depress the clutch lever and engage the first gear by pressing gear shift lever down.
2. Open the throttle slowly and simultaneously release the clutch lever gently and gradually. The vehicle starts moving forward.
3. As the vehicle picks up speed, shift to the next higher gear by closing the throttle, applying the clutch and lifting the gear shift lever.
4. Release the clutch lever and open the throttle smoothly. Select the required gear in similar manner.

Using the transmission

The transmission is provided to keep the engine to run smoothly in its normal operating speed range. The gear ratios have been carefully chosen to meet the characteristics of the engine.

The rider should always select the most suitable gear to achieve the necessary speed and pulling power smoothly.

Riding on hills / gradients

When climbing steep hills, the motorcycle may begin to slow down and show lack of power. At this point you should shift to a lower gear so that the engine will again be operating in its normal power range. Shift gears rapidly to prevent the motorcycle from losing momentum.

When riding down a hill, the engine may be used as braking by shifting to a lower gear.

Stopping and parking

1. Close the throttle completely and apply both the brakes simultaneously.
2. Down shift the gears as the road speed decreases. Bring the engine to neutral position just before the vehicle stops.
3. Turn the ignition 'OFF'.
4. Park the vehicle on a firm, flat surface.
5. Lock the steering.

Note

Ensure to maintain sufficient amount of fuel while riding the vehicle in up or down gradient.



Caution

It is not recommended to use the 'TVS intelliGO' function for stopping the vehicle on a hill / gradient to ensure the controllability of the vehicle and safety



Warning

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



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 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.



Caution

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

CHECKS AND TIPS FOR IMPROVING FUEL ECONOMY

Regular checks

Carry out the periodic maintenance checks as specified in this manual (page no 74).

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.**

Paper and foam type air cleaner element is used in your motorcycle. In case of any abnormalities (heavy dust clogging, damage), replace the filters earlier than the specified interval. Ensure to replace the filters as set.

Clutch

Increase in engine rpm during acceleration, without increase in road speed indicates the clutch slip. A slipping clutch will cause high fuel consumption and engine over heat.

If the condition persists even after adjusting the clutch lever play, immediately have the clutch checked by TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Engine cum transmission oil

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



Caution

Never drive the vehicle with half clutch. This will reduce the life of clutch and affects the performance of the vehicle and fuel economy.

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

Fuel leak

Check and arrest fuel leak if any, from tank, throttle body, injector and fuel lines. Loss of fuel due to leak may drain the fuel tank completely.

Tyres

Low tyre pressure has adverse effect on the vehicle. The **drag on the vehicle** increases resulting in 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 91). Never use tyres which are worn beyond the permissible limit.

Chain slackness

Check and ensure the drive chain slackness. Excess slackness leads to higher fuel consumption (refer page no 94).

Wheel freeness

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

Fast starting from rest wastes fuel

A racing start from rest at full throttle can waste fuel and damage the engine. It also creates a potentially dangerous traffic situation.

Fast acceleration wastes fuel

Fuel is wasted whenever you suddenly accelerate or apply brake.

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. So, ensure to use the 'TVS intelliGO' system which automatically shuts down the engine when it is kept idling for long and thereby avoiding 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.**

 **Note**

The on-road mileage of TVS Raider 125 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 if used / operated in dusty climate, certain jobs should be performed more often to ensure reliability of the vehicle. Cylinder head, steering components, suspension, chain 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 Raider 125, 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. Be sure that the periodic maintenance is performed thoroughly in accordance with the instructions given in this user's manual.

In more dusty areas, the air filter element may required early replacement than the mentioned kilometers to avoid costly damages to the engine.



PERIODIC MAINTENANCE SCHEDULE (months or km whichever occurs earlier)

ITEMS		SERVICE km PERIOD FROM DATE OF SALE	FREE SERVICE			AFTER FREE SERVICE	REMARKS
			1st 750 ~ 1000 30 ~ 45 days	2nd 6000 6 months	3rd 12000 12 months		
Malfunction indicator lamp	Check with Diagnostic tool		I	I	I	I	Connect ride scan tool if MIL glows Check and clear DTCs
Engine cum transmission oil	Replace		R	R	R	R	
Centrifugal filter	Clean		-	-	C	-	Clean every 12000 Km
Spark plug	Replace		I	-	R	-	Inspect, clean if required. Replace every 12000 km
Air cleaner elements	Replace		-	-	R	-	Replace every 12000 km
Tappet clearance	Inspect and adjust		I	I & A	I & A	I & A	Inspect for any abnormal noise starting trouble and adjust if required
Fuel hose	Inspect and replace		-	-	-	-	Inspect at every 4 years and replace if required
Clutch and throttle play	Inspect and adjust		I & A	I & A	I & A	I & A	
Throttle grip	Lubricate		-	-	L	-	
Steering smooth operation / play	Inspect, adjust and lubricate		I	I	I	I	Adjust if required. Lubricate if issue persists
Front fork oil	Replace		-	-	-	-	Replace every 30000 km
Front and rear suspension	Inspect for proper functioning		I	I	I	I	
All fasteners	Inspect and tighten		I & TI	I & TI	I & TI	I & TI	

contd...

ITEMS		SERVICE km	FREE SERVICE			AFTER FREE SERVICE	REMARKS
			1st 750 ~ 1000 30 ~ 45 days	2nd 6000 6 months	3rd 12000 12 months		
PERIOD FROM DATE OF SALE							
Drive chain**	Clean, lubricate and adjust	C, L & A	C, L & A	C, L & A	C, L & A		
All bulbs, horn and switches	Inspect for proper functioning	I	I	I	I		
Headlamp beam	Inspect and adjust	I	I	I	I	Adjust if required	
Battery voltage	Inspect and charge if necessary	I	I	I	I	Recharge if necessary	
Brake effectiveness / play	Inspect and adjust	I & A	I & A	I & A	I & A		
Brake cams / SBT system parts	Clean	-	-	-	-	Inspect and clean if required	
Brake fluid*	Inspect, topup and replace	-	-	-	-	Top up if required Replace every 21000 km or 2 years whichever occurs earlier	
Master cylinder cups*	Replace	-	-	-	-	Replace every 24000 km	
Wheels and tyres	Inspect and set	I	I	I	I	Inspect wheel for free rotation. Inspect tyre for wear and set pressure	
Centre / side stand pivot	Lubricate	L	L	L	L		
Evaporative emission control system	Inspect	I	I	I	I		

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

* Applicable only for disc brake version

** Clean the drive chain with dry cloth and apply TRU SPRAY / TRU 4 oil as frequently as every 500 km for better chain life and smooth vehicle running. Check drive chain, rear sprocket and engine sprocket for wear. If any part is worn, replace the same. Always replace the engine sprocket, rear sprocket and chain together.



RECOMMENDED LUBRICANTS

APPLICATION	QTY	MANUFACTURER	BRAND
Engine cum transmission oil	1000 ml	TVS Motor Company	TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)
Front fork oil	162 ± 3 ml / leg	Castrol / IOC	Teleshockab oil
Disc brake fluid*	–	TVS Girling	DOT 3 / DOT 4
Grease	–	Bharat petroleum IOC Bechem	MP Grease no. 3 Servo Gem no. 3 Bechem premium grade 3
Chain cleaner	--	TVS Motor Company	TRU SPRAY chain cleaner
Chain lubricant	--	TVS Motor Company	TRU SPRAY

* Applicable only for Disc Brake version

SELF - MAINTENANCE PROCEDURES

MAINTENANCE FREE (MF) BATTERY

Battery is located below the cover frame L. Follow the procedure given below for accessing the battery:

1. Place the vehicle on center stand on a flat surface and open the cover frame L as explained in page no 65.
2. Check the battery voltage as per the schedule. If the voltage measured is less than 12.4 Volts, charge the battery using **recommended MF battery** charger at TVS Motor Company Authorised Main Dealer / Authorised Dealer.



3. Adding any additional electrical accessories other than TVS Motor Company recommend ones, may lead to disqualification of warranty coverage.
4. While connecting the terminals, observe the correct polarity. Connect the red wire to the '+' terminal and black wire to the '-' terminal of battery

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



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 electrical system.

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 kmph 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 is 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*.
- Start the vehicle by kick starting (if available).

(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.

* To be done by skilled personnel

- Recharge battery if voltage is below 12.4 Volts.
- 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.

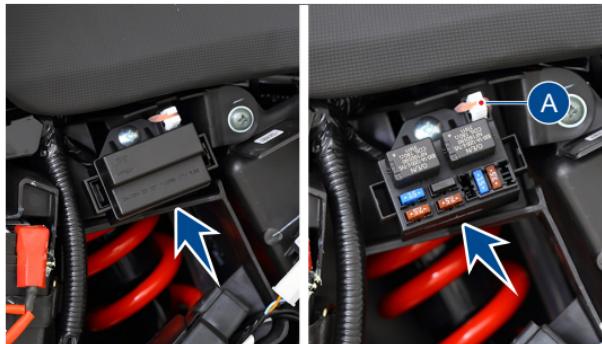
Do not push start the vehicle, use a good battery to start the vehicle.



FUSE

Non-working of electrical systems may be due to safety fuse failure. Short circuit or overload in the electrical system are the main causes for fuse failure. Follow the procedure given below for inspecting and replacing the fuse.

1. Open the cover frame L as explained earlier (refer page no 65).
2. The fuse case fitted near the battery contains one 15A fuse and two 7.5A fuse. Use the 'fuse puller' (A) placed near the fuse box to pull out the blown fuse.



3. Replace the blown fuse with a new one with same rating (extra fuses are provided inside the fuse case itself).
4. Close the fuse case and re-fix case into the battery band.
5. One 60A fuse is provided in a separate box near the battery without spare fuse.
6. Turn 'ON' the ignition switch and check for proper functioning of electrical systems. Incase the fuse fails again, consult the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

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.*

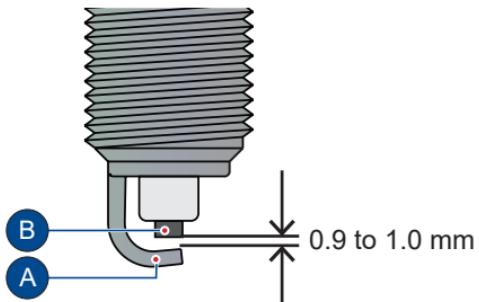
Do not use fuse of higher amperage than specified for the safety of electrical system.

SPARK PLUG

1. Clean the dust and mud around the spark plug mounting to avoid falling inside the cylinder.
2. Pullout the suppressor cap from the spark plug.
3. 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 (A) and (B) for any corrosion. If found any replace the spark plug with new.



Inspect the spark plug gap visually (0.9 ~ 1.0 mm). If found more, 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. After reassembling the plug fix back the suppressor cap and ensure its proper fitment.



Caution

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

Cover the spark plug hole with a clean cloth when the plug is removed to prevent dust / water entry.

It is advisable to tight the new spark plug by hand till the end and then loose. Again re-tight the spark plug by 1/8 of rotation after sealing by using only the hand tool.

Since the hook type spark plug is used, it is not advised to adjust the plug electrodes as it may damage the electrodes.

ENGINE CUM TRANSMISSION OIL LEVEL

Check the engine cum transmission 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 oil level 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.
5. The oil level should be between minimum and maximum level marks of the gauge as shown in the figure.



6. If the oil level is less than the minimum level, add TVS TRU4 PREMIUM oil ((SAE 10W30 API-SL JASO MA2) upto the maximum level mark.
7. Wipe out the oil traces with a clean cloth to prevent dust accumulation and assemble back the gauge oil level.



Caution

If the vehicle is driven with less engine cum transmission oil, the engine components will be severely damaged. Check the oil level as per the schedule to avoid costly damage.

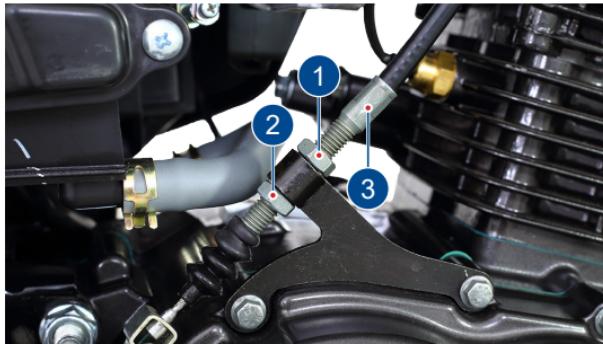
Do not fill excess oil as it may cause the oil leak. Always use 'TVS TRU4 PREMIUM (SAE 10W30 API-SL JASO MA2)'.

CLUTCH ADJUSTMENT

Clutch lever free play is one of the most important adjustment which you may need to check in-between services for better life of the clutch plates. The free play of the clutch lever should be 8 ~ 15 mm as measured at the clutch lever end before the clutch begins to disengage.

Adjust the clutch lever free play periodically by means of clutch cable adjuster at arm clutch release if the free play is found more.

1. Ensure that the engine is cold.



2. Loosen the lock nut (2) while holding the clutch cable adjuster (3). Adjust the clutch cable adjuster nut (1) 'in' or 'out' to give sufficient play in the clutch lever.
3. After adjusting the play, hold the adjuster nut (1) in the same position, tighten the lock nut (2).

 **Caution**

*Too much or too less clutch lever free play will damage the clutch plates, thereby affecting the performance of the vehicle. **Adjust the clutch lever free play only when the engine is cold.***

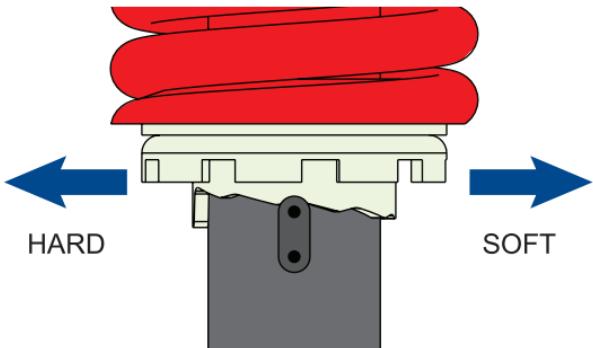


REAR SHOCK ABSORBERS

TVS Raider 125 is provided with 5 step adjustable, gas charged, hydraulic shock absorbers to meet different road and load. There are 5 notches for adjusting spring load.

If the spring is adjusted to the minimum notch, then the shock absorber will be softer which is good for light loads. If the spring is adjusted to maximum notch, then it will be stiffer which is good for heavy loads.

Adjust the spring pre-load by shifting the adjuster to the required notch according to the different load conditions.



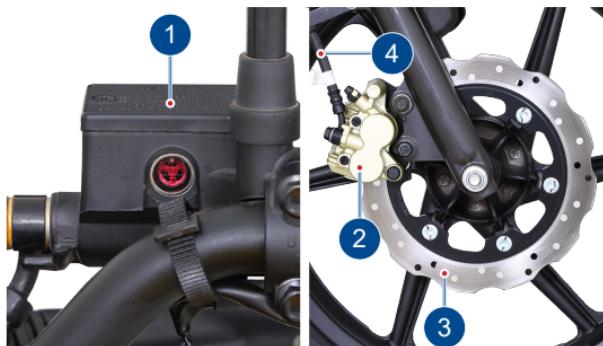
The more you compress the spring, the suspension becomes more stiff.



BRAKES

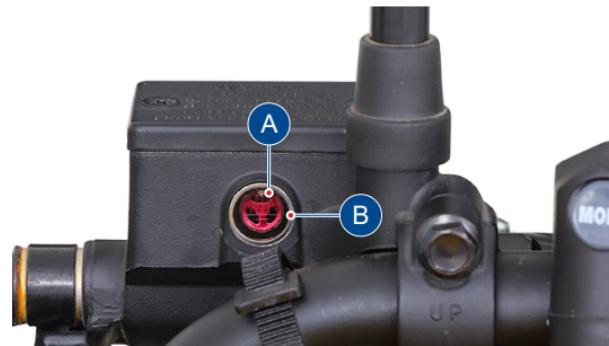
Front brake (Disc type)

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



Warning

Brakes are items of personal safety and should always be maintained in proper condition.



1. Check the master cylinder brake fluid level through the view piece glass (A).
2. Brake fluid level always should be above the 'MIN' mark (B) provided on the master cylinder view piece glass when the master cylinder is parallel to the 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 / Authorised Dealer for topping-up the brake fluid, air bleeding and other brake related inspections.



Warning

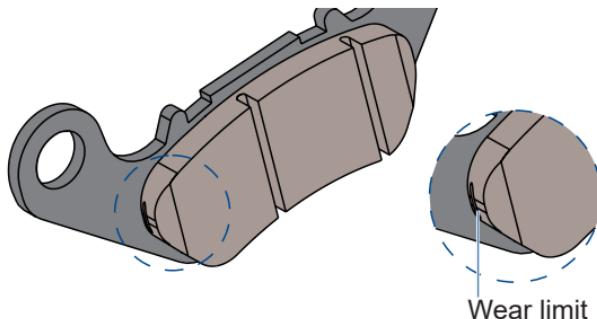
Since the vehicle is fitted with Synchronised Braking Technology (SBT) adjust the brakes with additional care. If not it may result in brakes not working properly.

Brake pad wear indicator

Visually check the brake pads wear. If the wear is found beyond the wear indicator groove as shown in the figure then, replace the brake pads.

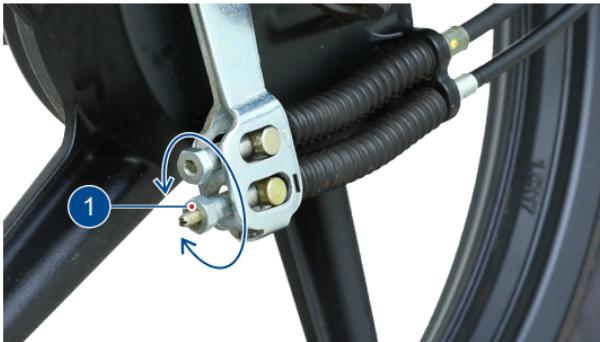
Caution

The brake pads must be replaced as a set if the brake pad wear limit indicator shows beyond the wear limit.



Front brake (Drum type)

1. Measure the free play of the front brake lever at the lever end as shown in the figure.
2. The free play of the brake lever before the engagement of brake should be between 15 ~ 20 mm.



SBT
SYNCHRONIZED BRAKING
TECHNOLOGY

⚠ Warning

Since the vehicle is fitted with Synchronised Braking Technology (SBT) adjust the brakes with additional care. If not it may result in brakes not working properly.

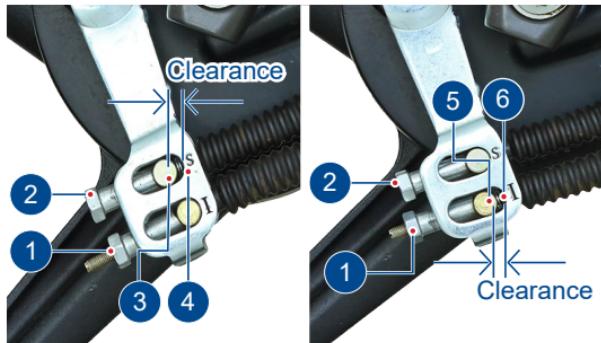
Please contact TVS Motor Company Authorised Main Dealer / Authorised Dealer for any further assistance.

⚠ Warning

Brakes are items of personal safety and should always be maintained in proper condition.



3. Turn the adjuster nut at bottom side (1) in the slot marked as "I" in clockwise direction for reducing the free play or in anti-clock wise direction for increasing the free play.
4. After obtaining the necessary free play at the lever end, inspect for the clearance between the bullet (3) and slot end (4) marked as "S" as shown in figure.
5. If any clearance is found then turn the top side adjuster nut (2) at slot marked as "S" in clockwise direction until there is no clearance between the bullet (3) and slot top (4).



6. After adjusting the nut top, If any clearance is observed in between the bullet bottom (5) and slot bottom (6) marked as "I" as shown, then turn the adjuster nut (2) in anti-clockwise until the clearance is closed.
7. Once again check and confirm the brake play at the lever end.

 **Note**

After first free service, please contact TVS Motor Company Authorised Main Dealer / Authorised Dealer for the brake free play adjustment must be done every 3000 kms without any additional cost.

Rear brake

1. Measure the free play of the rear brake pedal at the pedal end as shown in the figure.
2. The free play of the brake pedal before the engagement of brake should be between 15 ~ 20 mm.
3. If the measured free play is more than the limit, adjust the nut provided at the rear wheel end to obtain the correct play.
4. Turn the adjuster nut clockwise to reduce the free play or turn it in anti-clockwise direction to increase the free play.



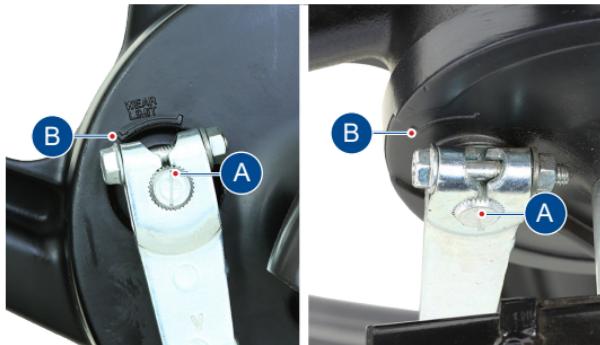
Warning

Please remember that the rear brake lever free play adjustment to be done only after adjusting the front brake lever play in case of front drum brake type vehicle.

Brake shoe wear indicator

When the brake is applied, wear limit index mark (A) on both front and rear brake cam should be within the range of wear limit indicator (B) on panel assembly. Incase the index mark (A) is going beyond the wear limit (B), replace the brake shoes as a set, with the help of the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

However, if cam lever adjustment goes beyond certain range, then index the cam lever to next slot (serration tooth) with the help of the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer to utilize remaining shoe life until wear limit.



Caution

Replace the brake shoes as a set, if wear limit index mark (A) exceeds beyond the range of wear limit indicator (B) 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. **Lower tyre pressure consumes more fuel.** Be sure that the tyre pressure is within the specified limit at all times.

	Solo	Pillion
Front	1.75 kg/cm ² (25 PSI)	1.75 kg/cm ² (25 PSI)
Rear	1.97 kg/cm ² (28 PSI)	2.25 kg/cm ² (32 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).

Tyre rotation direction

While reassembling the tyres, after removing from the wheel rim, ensure that the arrow mark on the tyre facing the direction of wheel rotation.



⚠ 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 puncture

Your motorcycle is fitted with a tubeless tyre on both front and rear wheel. Incase 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 if 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.

Inflation pressure check - Condition



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 distance should not exceed more than 1 km.*
- *Weekly basis inflation pressure check helps to improve 10% of tread life and fuel efficiency.*

DRIVE CHAIN

Proper lubrication and adjustment of drive chain gives long service life of chain. Poor maintenance of chain causes premature wear or damage to the drive chain and sprockets. **Poor chain maintenance also affects mileage of the vehicle.** The drive chain must be cleaned, checked, lubricated and adjusted at specified intervals mentioned in the maintenance schedule.

If the vehicle is used under severe conditions and more dusty area, the drive chain must be attended more frequently.



Check, clean, lubricate and adjust the drive chain in the following manner:

1. Place the vehicle on centre stand with the transmission in neutral.
2. Inspect the drive chain slackness (vertical movement) using the finger as shown in the figure.
3. The slackness of the drive chain should not exceed the limit (maximum 20 ~ 30 mm). **Excess slackness consumes more fuel.**
4. If the slackness is found more, contact TVS Motor Company Authorised Main Dealer / Authorised Dealer for adjustment.
5. If the slackness found is within the limit, clean the chain with TRU SPRAY chain cleaner & dry cloth and lubricate using TRU SPRAY / TRU4 oil.

Warning

Riding with improperly adjusted chain / high slackness can cause the chain to come off the sprockets resulting in accident or serious damage to the motorcycle.

Misalignment of rear wheel or sprockets can cause abnormal wear of chain and sprockets and results in unsafe riding condition.

Caution

Lubricate the drive chain after the motorcycle is washed with water or riding in rainy / wet condition.

The chain must be serviced more frequently when the vehicle is operated under severe conditions like dusty, muddy, wet, high speed or frequent starting / stopping.

FRONT WHEEL REMOVAL AND REASSEMBLY

1. Remove the axle nut (1) along with a washer.
2. Pull out the axle (2) from the front wheel.



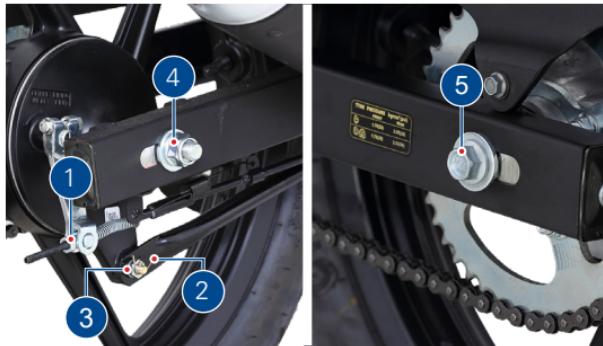
3. In case of disc brake model, remove the spacers from both side of the wheel. In drum brake model remove a spacer from right side of the wheel.
4. Place a support below the frame to prevent the vehicle from falling and lift the vehicle up.
5. In case of drum brake model, dislocate the wheel assembly along with the brake panel. Separate the brake panel from the wheel and take out the wheel.
6. In case of disc brake model, carefully dislocate the disc from the caliper assembly and slide the wheel out.
7. Reverse the procedure for reassembling.

Warning

Always make sure that whenever the wheel is removed, axle nut is properly re-tightened to the specified torque.

REAR WHEEL REMOVAL AND REASSEMBLY

1. Remove the rear brake adjuster nut (1) and disconnect the brake rod from the rear brake lever.
2. Remove the split pin (2) and the nut (3) from torque link mounting with the brake panel and disconnect the torque link.
3. Remove the axle nut (4) along with a washer.
4. Pull out the axle (5) along with a washer and take out the spacer bush from the rear wheel assembly.



5. Tilt the vehicle to the left and take out the wheel along with the brake panel. Separate the brake panel from the wheel.
6. For locating and reassembling the rear wheel easily, engage the gear. This will arrest the free movement of the drum sprocket.
7. Reverse the procedure for reassembly.

 **Caution**

Once the split pins are removed, replace them with new ones.

 **Warning**

Always make sure that whenever the wheel is removed, axle nut is properly re-tightened to the specified torque.

STORAGE PROCEDURES

For storage of your motorcycle 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 cum 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 cum transmission 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 frame so that both the tyres are off the ground. This will ensure better tyre life.

Warning

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.

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.

During storage, the battery must be recharged on a TVS Motor Company recommended battery charger atleast once in a month.



TAKING THE VEHICLE OUT OF STORAGE FOR REGULAR USE

1. Take the vehicle out of the garage and clean it thoroughly.
2. Remount the battery after bench charging if required.
3. Fill the engine cum transmission oil [TVS TRU4 PREMIUM oil (SAE 10W30 SL-JASO MA2)] and check the oil level using gauge oil level.
4. Lubricate the parts as instructed in the periodic maintenance schedule.
5. Fill up fresh petrol in the fuel tank.
6. Check and inflate the tyres to the specified tyre pressure.
7. Check and correct the points mentioned in page no. 67.
8. Turn the ignition switch to 'ON' position. Retract the side stand if the vehicle is parked on side stand. Start the engine and allow it to idle for a few minutes and ride out.



Caution

Avoid using alkaline solution like detergent soaps for washing. This may damage headlamp 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 one each.
 4. Throttle, clutch and front brake cable one each.
 5. First aid kit.
- B) Precautions to be taken for the journey:
 1. Ensure engine cum transmission oil and brake oil* level are up to the level mark.
 2. Adequate fuel in fuel tank (refer page no. 70).

* Applicable only for Disc Brake version

C) Check your motorcycle 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. Drive chain and sprocket condition. Chain adjustment.
7. Front / rear brake functioning and rear brake lamp switch adjustment.
8. Front fork for any abnormality.
9. Spark plug gap and condition of spark plug.
10. Air filter element cleanliness.
11. Lubrication of all items mentioned in the periodic maintenance schedule.
12. Intactness of EVAP system hoses and canister.
13. Any other job as necessary.
14. Have your vehicle checked at any TVS Motor Company Authorised Main Dealer / 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 Raider 125 manufactured by the Company.

While the Company has taken every care to maintain quality in the manufacture of the TVS Raider 125, the above said warranty is subject to other terms of warranty:

During 5 Years from the date of purchase or during the first 60,000 km of run for the vehicle, 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. In the event of a change in vehicle ownership, the remaining warranty period is effective for the new owner.

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 Raider 125. No employee, Dealer or other person is authorised to extend or enlarge this warranty.

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

In the case of EXIDE battery, call :- 1800 103 5454

In the case of AMARON battery, call :- 1800 571 5858

In the case of TATA GREEN battery, call :- 1800 419 8888

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

In the case of TVS Srichakra, call :- 04522443300

In the case of JK tyre, call :- 18002581100

In the case of Maxxis tyre, call :- 1800 532 2888

In the case 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, DRL etc.
Service Maintenance Parts	Oil filters, spark plug, air filter, oil 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>
Other 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
Other Factors	<p>Parts which are used in conjunction with parts not made or recommended by the Company.</p> <p>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 user's manual.</p> <p>Vehicles on which engine number or chassis number is deleted, defaced or altered.</p> <p>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> <p>Vehicles used for racing or any competition or used otherwise than for ordinary personal transportation.</p> <p>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> <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.</p>

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.



SERVICE INFORMATION

There are eleven services for TVS Raider 125 during warranty period. Of these, the first three services are free services for which labour charges are free. In addition to these three free services, we have a scheme of eight pay services. For keeping 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 eleven warranty services, please take your vehicle and your Service Handbook to any of our Authorised Main Dealer 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 the free or pay service record sheet of Service Handbook for your record and reference.

Periodic maintenance always helps good performance of an automobile and our services are planned to keep your TVS Raider 125 performing good. **Please note that carrying out the service 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 the 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	750 ~ 1000	30 ~ 45 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
10	10th Service		53500 ~ 54000	54
11	11th Service		59500 ~ 60000	60

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 fulfil 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. No 4, Harita, Hosur - 635 109, India.

ENGINE

Type	: Single cylinder, 4 stroke, fuel injection, air cooled, spark ignition engine
Cylinder bore	: 53.5 mm
Stroke	: 55.5 mm
Piston displacement	: 124.8 cc
Compression ratio	: $10.3 \pm 0.3 : 1$
Air filter	: Foam + Paper filter element
Lubrication system	: Wet sump lubrication
Maximum power in kW	: 8.37 kW @ 7500 rpm
Maximum torque in Nm	: 11.2 Nm @ 6000 rpm (without iGO Assist) 11.75Nm @ 6000rpm (with iGO Assist)
Maximum speed	: ISS disabled (Power mode) : 99 km/h : ISS enabled (Eco mode) : 90 km/h
Engine idling rpm	: 1500 ± 200 rpm (under warm condition)
Starting system	: Electric starter
Emission norms	: BS VI

TRANSMISSION

Clutch	: Wet - Multi plate type
Transmission	: 5 speed constant mesh
Gear shift pattern	: 1 down and 4 up
Primary transmission	: Spur gears
Secondary transmission	: Chain and sprockets

GEAR RATIOS

I Gear	: 2.917
II Gear	: 1.857
III gear	: 1.333
IV gear	: 1.050
V gear	: 0.880
Primary reduction	: 3.250
Secondary reduction	: 3.285

CHASSIS

Overall length	: 2070 mm
Overall width	: 785 mm
Overall height	: 1028 mm
Ground clearance	: 180 mm (unladen)
Wheel base	: 1326 mm
Kerb weight (with tool kit & 90% of fuel)	: 124 kg
Pay load	: 150 kg
Maximum laden weight	: 254 kg
Steering angle	: 80°
Caster angle	: 25.6°
Frame	: Single cradle tubular frame
Front suspension	: Telescopic oil damped
Rear suspension	: 5 step adjustable, gas charged hydraulic shock with swing arm
Trail length	: 85 mm

TYRE

Front tyre	: 80/100-17 M/C 46P Tubeless
Rear tyre	: 100/90-17 M/C 55P Tubeless

Tyre pressure

Front	: 1.75 kg/cm ² (25 PSI)
Rear - Solo	: 1.97 kg/cm ² (28 PSI)
Rear - Pillion	: 2.25 kg/cm ² (32 PSI)

BRAKES

Front	: Hand operated, 240 mm petal disc
Rear	: Foot operated, 130 mm dia drum

ELECTRICAL

Ignition system	: ECU - Electronic Control Unit
Spark plug	: BOSCH UR5KCW
Spark plug gap	: 0.9 ~ 1.0 mm
ISG magneto	: ISG Starter generator 12V, 160W
Battery	: 12V, 4 Ah / 5 Ah MF
Headlamp	: 12V, LED, 10W Max
Tail / brake lamp	: 12V LED, 0.3W/2.5W
Turn signal lamps bulb	: 12V, 10W x 4
Number plate lamp bulb	: 12V, 5W x 1
Digital speedometer	: TFT display
	(Connected cluster)



ELECTRICAL

Horn	: 12V, DC x 1
Fuse	: 12V 15 A x 1 & 12V 7.5 A x 2 (mini blade type)
	: 12V, 60A x 1 (cartridge type)

CAPACITIES

Fuel tank including reserve #	: 10 l
Fuel	: BS VI petrol with minimum RON 98 (containing upto 20% of ethanol by volume)
Engine cum transmission oil	: TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)
Engine cum transmission oil capacity	: 1000 ml
Front fork oil grade	: IOC / Castrol teleshockab oil
Front fork oil capacity	: 162 ± 3 ml / leg
Disc brake oil grade	: TVS Girling DOT 3 / DOT 4



Caution

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



Specifications are subject to change without notice.

* Applicable only for Disc brake version

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

GENERAL INFORMATION



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:



Oriental
insurance



Liberty General Insurance Limited
IRDA Registration No. 150



suraksha ka /
naya nazariya



GENERAL
INSURANCE





ALWAYS USE TVS-M GENUINE PARTS



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