

TVS



Zip  
Zap  
Zest

ALL NEW  
TVS **Zest 110**

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.<sup>†</sup>

<sup>†</sup> 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.<sup>†</sup>

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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](mailto: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,  
Door No. 27/631, A6,  
Edappally-Pookkattupady Road,  
Edappally PO., Cochin - 682 024.  
Phone : 0484 - 2544578/2556938  
Email : AO.Cochin@tvsmotor.com

### KARNATAKA - 1

#### 5. TVS Motor Company Limited

TVS Focus Towers, Plot No. 25 and 23,  
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,  
No. 3-11-30, Plot No. 11,  
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Secunderabad - 500 003.  
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Email : AO.Hyderabad@tvsmotor.com

### ANDHRA PRADESH

#### 8. TVS Motor Company Limited

1st Floor, Passport Office Building,  
Sri Venkateswara Theatre,  
D.No. 38-8-45, MG road, Punnammathota,  
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.  
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Email : Service.Nagpur@tvsmotor.com

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**GUJARAT****12. TVS Motor Company Limited**

101-08, 11th Floor, Solitaire Connect,  
Near Gallops Motors,  
S G Highway, Makarba,  
Ahmedabad – 380 051.  
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Email : AO.Ahmedabad@tvsmotor.com

**MADHYA PRADESH - 1****13. TVS Motor Company Limited**

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

**MADHYA PRADESH - 2****14. TVS Motor Company Limited**

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

**RAJASTHAN - 1 & 2****15. TVS Motor Company Limited**

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2nd Floor of National Motors Building,  
Jhotwara Industrial Area,  
Jaipur - 302 012.  
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Email : AO.Jaipur@tvsmotor.com  
AO.Udaipur@tvsmotor.com

**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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Chandigarh Ambala Highway,  
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**UTTAR PRADESH CENTRAL & EAST****18. TVS Motor Company Limited**

1st Floor, Cyber Tower, TC-34/V-2,  
Vibhuti Khand, Gomti Nagar,  
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**WEST BENGAL****19. TVS Motor Company Limited**

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Salt Lake City, Electronic Complex,  
Sector-V, PE & GP block, PO-Sech,  
Bhawan, P S - Electronics Complex,  
Kolkata - 700 091.

Email : AO.Kolkatta@tvsmotor.com

**NORTH EAST STATES****23. TVS Motor Company Limited**

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

**BIHAR****20. TVS Motor Company Limited**

Sai Corporate Park, Block-A, 4th Floor,  
Bailey Road, Rukanpura,  
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**ORISSA****21. TVS Motor Company Limited**

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Creative Plaza, Rasulgarh,  
Bhubaneshwar - 751 010.  
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**JHARKHAND****22. TVS Motor Company Limited**

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

### ZEST for POWER

#### Next-Gen 110cc CVTi ENGINE

Your scooter is powered by a Next Gen 110cc CVTi ECO Tuned Fuel Injection technology engine.

Your scooter also has Best in class Power-to-weight ratio with Best in class pickup. It makes your scooter smooth and zip through traffic with ease.

### ZEST for STYLE

Your scooter comes in vibrant colour ensuring you always arrive in style.



### FULLY DIGITAL CONNECTED INSTRUMENT CLUSTER WITH ON-BOARD DIAGNOSTIC

Your scooter is fitted with 'Fully Digital Connected Instrument Cluster'. This first-in class cluster housed perfectly in the headlamp housing of your scooter. An Engine Malfunction Indication lamp is added to glow whenever any engine related fault is present in vehicle.



### SMARTXCONNECT-BLUETOOTH CONNECTIVITY

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



### LEAF-SHAPED MIRROR

The leaf-shaped mirrors enhance the style quotient of your scooter. Style comes with performance as these mirrors can be adjusted easily. You can adjust them up-down, forward-backward and rotate as well, for enhanced visibility & safety.



### LED TAIL LAMP CUM BRAKE LAMP

Your scooter has an LED tail lamp that makes it look stylish at night also.



### TWILIGHT LAMP

Your scooter has twin twilight lamps located on the front panel, for you to choose your stylish lighting on the go.



### TEXTURED FLOOR BOARD

Your scooter comes with a stylish textured floor board.



### STAINLESS STEEL MUFFLER GUARD

The stainless steel muffler guard on your scooter not only protects you from hot muffler but also adds a dash of style to its sporty looks.



### SPORTY DOUBLE STITCHED SEAT



### PAINTED SWITCH PANEL



### ZEST for COMFORT RIGHT ERGONOMICS

Your Scooter comes with right weight of 103 kgs for easy handling and zippier rides. Also, Right Seat height of 760 mm on your scooter ensures good ground reachability while adding safety.



### FRONT TELESCOPIC SHOCK ABSORBERS & REAR DOUBLE RATED HYDRAULIC MONO-SHOCK SPRING SUSPENSION

Your scooter comes with superior suspension that enhances ride comfort even when you ride over potholes, bumps or bad roads.



### WIDE COMFORTABLE SEAT

A wide comfortable seat ensures that your posture while riding is relaxed and your pillion is seated comfortably too.



### ABS BODY

The ABS body of your scooter is tough and ensures comfort while riding.



### ZEST for CONVENIENCE LARGEST UNDER-SEAT STORAGE (UTILITY BOX)

Your scooter has the largest 19 litre under-seat storage space to carry your bags, books, and belongings.



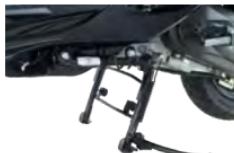
### TUBELESS TYRE

Your scooter has tubeless tyres for enhanced convenience. You can run the vehicle for a few more kms even after the tyre is punctured.



### EaZy® CENTRE STAND

The patented EaZy® Centre Stand of your scooter reduces the effort required to place the scooter on stand.



### SYNCHRONIZED BRAKING TECHNOLOGY (SBT)

Synchronized braking technology reduces the stopping distance, While keeping the stability intact.



## PARKING BRAKE (REAR BRAKE LOCK)

The parking brake is another unique safety feature which protects your scooter from falling when it is parked on a slope.



## MFR HEADLAMP

Your scooter has a "Multi Focal Reflector" – the bright headlamp with a 'Halogen bulb' for better visibility in the dark.



## RETRACTABLE BAG HOOK

Your scooter has a retractable bag hook to carry light luggage, like carry bags weighing up to 3 kgs. The hook is located below the handle bar.



## UNDER-SEAT LUGGAGE HOOK

For more convenience, another luggage hook is located just under the seat of your scooter.



## HELMET HOOK

Your scooter has one helmet hook under the seat assembly to conveniently place the helmet.



## EASY KICKSTART

The kick lever in your scooter is designed such that the vehicle can be kick-started while you're seated on the vehicle.



## HUGGER FENDER

The hugger fender in your scooter keeps the engine protected & helps to save the pillion rider from mud splashes.



## SMART PHONE CHARGER

Your scooter has a Smart phone charger enable to charge your mobile phone when you are traveling.



## ZEST for MILEAGE

### BEST IN CLASS MILEAGE

Your scooter is not only packed with features but also it is easy on your pocket. Its best-in-class mileage ensures you spend lesser on fuel and save more pocket money.

## ECONOMETER®

Your speedometer has an ECONOMETER® which indicates whether you are riding in Economy Mode. This is a unique feature of your scooter which enables to manage your scooter fuel efficiently.



## ACCESSORIES FOR YOUR VEHICLE

### OPEN FRONT GLOVE BOX\*

An open front glove box is supplied as an accessory for your scooter. It is specially designed to accommodate a 1 litre bottle.



### FOLDABLE PILLION SIDE FOOT REST\*

The foldable pillion side foot rest is supplied as an accessory for your scooter.



\* Accessory will be charged extra



Dear TVS Zest Owner,

Congratulations! You're now ready to zip ahead into a world of zappy rides on your new TVS Zest 110cc scooter. Now that you've made a great choice, you'll soon see that it's a perfect fit for all your needs offering a perfect balance between power, style, comfort, convenience and mileage. The stylish new TVS Zest is crafted especially for you. Its 110cc CVTi engine gives you amazing pick-up and zippy rides. It is also easy to ride, with the right height and the right weight; it offers you the perfect balance of speed and stability, so it's easy to handle on busy roads. With the least turning radius, it is easy to manoeuvre as well.

The all new TVS Zest also comes in two new colours with bold and refreshed decals, adding more style to your every ride. It has large under-seat storage of 19 litres, giving you all the space to carry your world along. Now, the all new TVS Zest is also equipped with SmartXonnect technology, baked right into the LCD cluster. SmartXonnect makes your TVS Zest a connected scooter with Bluetooth connectivity to your phone, turn-by-turn navigation and SMS/Call alerts right in your line of sight as you ride ahead.

This manual explains in detail, the many features, benefits and operations of your TVS Zest. Do read through your manual carefully, it will help you get the best out of your vehicle and keep it going strong for years to come.

To ensure reliable performance, we urge you to get your TVS Zest serviced only at TVS Motor Company Authorised Main Dealers / Authorised Dealers at regular intervals as specified by your service provider. We wish you zippy, comfortable, safe and exciting trips for years to come! Get ready to Zip, Zap, Zest!

**TVS MOTOR COMPANY LIMITED**

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

This manual is designed to help you to maximize the performance of your TVS ZEST. 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 ZEST 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 ZEST 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.*

***Your scooter is provided with always glowing head lamp (AHO). 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 the vehicle.***



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 ZEST. Proper running-in operation during this period helps in ensuring a maximum life and smooth performance of your scooter.

The reliability and overall performance of your TVS ZEST 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 ZEST** (vary the engine speed for better mating of parts).

The first free service at 500 ~ 750 km or 2 months (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 and transmission oil during first free service is most important for better life of engine. Always use TVS TRU4 SKUUTA oil (SAE10W30 API-SL, JASO MB) for better performance and life.*



### 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 ZEST**

Riding skill and your mechanical knowledge form the foundation of safe riding practices. We suggest you to practice riding TVS ZEST 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 the limits will help you avoid accidents.

#### **Warning**

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

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

## Posture

Proper vehicle riding starts with proper posture.

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

## Warning

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

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

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

## Cornering

When cornering, centrifugal force works in a direction perpendicular to the direction in which the vehicle is moving. Centrifugal force increases in proportion with speed and 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. **Apply both the brakes. 'SBT' provides additional braking even when 'Only Rear brake' is applied, But applying 'Both the brakes' helps you to use the full potential of the brakes.**
5. Riding down hills, while cornering and wet roads close throttle and come to a slower speed to avoid the loss of control over the vehicle due to skidding.



## Causes for poor braking

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

### Warning

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

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

## ACCESSORY INSTALLATION AND SAFETY TIPS

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

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

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

**Additional electrical equipments is not acceptable as it will void 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 or Authorised Dealer.

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

### Crankcase emission control system

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

### Evaporative Emission Control System

TVS ZEST 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**

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



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



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

## LOCATION OF PARTS - HANDLE BAR



1. Retractable bag hook
2. Horn switch
3. Turn signal lamp switch
4. Rear brake lever
5. Parking brake (rear brake lock)
6. Rear view mirror L
7. High/low beam switch
8. Speedometer assembly
9. Rear view mirror R
10. Front brake lever
11. Throttle grip
12. Engine kill switch
13. z Electric starter switch
14. Ignition cum steering lock
15. Glove box\*

\* Accessory will be charged extra



**LOCATION OF PARTS - VEHICLE LEFT SIDE**

1. Rear brake adjusting nut
2. Lady foot rest - foldable\*
3. Kickstarter lever
4. Side stand\*
5. Pillion foot rest L
6. Front brake adjusting nut
7. Seat lock
8. Pillion handle

\* Accessory will be charged extra

**LOCATION OF PARTS - VEHICLE RIGHT SIDE**

1. Front wheel axle nut
2. Under-seat luggage hook
3. Cover front
4. Pillion foot rest R
5. Gauge oil level
6. Muffler assembly
7. Rear fender
8. Seat assembly
9. Retractable bag hook

## CONTROL KEY

TVS ZEST comes with a pair of identical control keys. These keys are to operate ignition cum steering lock and seat lock.

## IGNITION CUM STEERING LOCK

The ignition cum steering lock enables and disables the electrical circuit and steering lock. The three positions of the lock are described below.

### 1. 'OFF' position

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



### 2. 'ON' position

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

### 3. 'LOCK' position

TVS ZEST 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'. Push the key IN and turn it to the 'LOCK' position from 'OFF' position. All the electrical circuits are deactivated and the steering is locked. Control key can be removed from the lock.

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

#### Note

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

*The license plate lamp and tail lamp glow automatically once the ignition key is turned 'ON' without activating any other switches.*

## ⚠ Warning

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

## ⚠ Caution

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

Always lock the steering while parking for safety.

## CONNECTED INSTRUMENT CLUSTER

Your TVS Zest is provided with a fully digital connected instrument cluster with lots of features.

The connected instrument cluster also has a mobile app for 'Smart Phones' and navigation assist etc. additionally along with other features.



### 1. Economy and power indicator

Eco indicator (green lamp) indicates that the vehicle is running in economy mode which gives better fuel economy.



Power indicator (amber lamp) indicates that the vehicle is running in power mode which results in reduced fuel economy.

Power indicator will also glow if engine is stalled using kill switch.

### **Note**

*Always ride the vehicle in 'Economy Mode' for better fuel efficiency.*

*Whenever the engine is kept running in idle mode for more than 20 seconds approximately, the power mode indicator blinks and informs you that the fuel is getting wasted and the engine needs to be switched 'OFF' to save the fuel and the power mode indicator blinking (power mode) to green light glowing (economy mode) when the throttle position is changed / increased.*

### **2. High beam indicator lamp ( )**

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

### **3. Turn signal indicator left ( )**

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

### **4. Turn signal indicator right ( )**

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

### **5. Low fuel indication ( )**

The low fuel indicator glows when the fuel level goes down and a warning message 'FUEL EMPTY' will be displayed continuously in the alpha numeric display.

**When the fuel level reaches very low level the message 'FUEL EMPTY' starts blinking for the user's attention to refill the fuel.**

*FUEL EMPTY*

### **Caution**

*When the low fuel warning indicator lamp glows fill fuel in the fuel tank immediately to avoid engine switch 'OFF' / damage to fuel pump which leads to replacement of pump without warranty.*

## 6. 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 continuously or blinking continuously when the engine is started, immediately contact the nearest TVS Motor Company Authorised Main Dealer or Authorised Dealer.**

### Note

*The malfunction indicator will continue to remain switched 'ON' after self checking of cluster until the engine is started. But after starting the engine it will get switch 'OFF' if no malfunction is detected.*

## 7. Smart-connect notification LED (●)

**A green colour LED indicator glows** and indicates whenever there is an incoming call or message received by the 'Smart Phone' paired with your TVS Zest.

This indicator will go 'OFF' once the user read the message / incoming calls details.

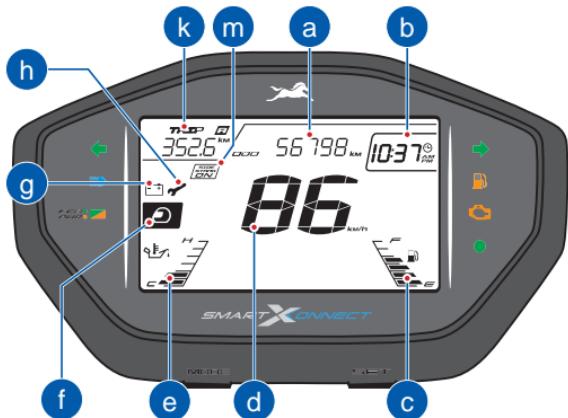
## 8. Alpha numeric display

The customized alpha-numeric display indicates different modes of instrument cluster, vehicle information and Smart-connect related messages, when the ignition key is turned 'ON' and vehicle running condition.



The following features will be displayed on the connected instrument cluster:

- a. Odometer
- b. Digital clock
- c. Fuel gauge
- d. Speedometer
- e. Engine temperature gauge
- f. Helmet icon
- g. Low battery indicator
- h. Service reminder
- k. Trip A, B and F
- m. Side stand indicator



### Note

The connected instrument cluster of your scooter enters into BT pair mode automatically, when the following conditions are met:

1. Battery is disconnected and reconnected again.
2. When the vehicle fuse is blown and replaced.
3. When the electric start is done with the low SOC (state of charge) battery (will be indicated through self-check of connected instrument cluster).

**a. Odometer**

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

**b. Digital clock**

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

 **Note**

*If the battery is disconnected and reconnected during service, you may need to reset the time as explained in page no. 40.*

*Otherwise the clock timing will be set automatically as per the connected mobile device after completion of successful Bluetooth pairing when auto sync clock is enabled in App.*

**c. Fuel gauge**

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



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



When the fuel reaches minimum safe level (1.2 liters approx.), the last bar of the fuel gauge starts blinking and low fuel indicator starts glowing.

The message 'FUEL EMPTY' will be displayed at alpha numeric display and 'TRIP F' meter starts counting from 0.0 km as explained in page no. 30.



#### **Note**

*If all the fuel level bars of the connected instrument cluster are blinking and an error message 'CHECK FUEL SENSOR' displayed at alpha numeric display as shown, Contact nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.*

**CHECK  
FUEL SENSOR**

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

#### **d. Speedometer**

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



#### **e. Engine temperature gauge**

The temperature gauge displays the engine temperature in digital bars. There are six bars to indicate the engine temperature. All the six bars will be displayed if the engine temperature raises beyond normal operating temperature and a diagnostic message 'ENGINE WARNING' also will be displayed at the alpha numeric display as shown.



On occurrence of the above error message, the vehicle should be kept in idling for 10 minutes approx. and switch 'OFF' the vehicle. If the problem continues even after cooling the engine, take the vehicle to TVS Motor Company Authorised Main Dealer or Authorised Dealer and get it rectified.

#### **f. Helmet icon**

With every ignition 'ON', Helmet icon '  ' blinks for 10 seconds on the left side of the connected instrument cluster to remind the rider to wear a helmet.

#### **g. Low battery indicator**

An icon with battery symbol '  ' glows when the battery charge is too low. Get the battery checked at TVS Motor Company Authorised Main Dealer / Authorised Dealer.

#### **Note**

*Low battery and service reminder indicator works on all the modes of the connected instrument cluster.*

#### **h. Service reminder**

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

#### **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.*



### **k. Trip A and B**

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

**TRIP A**  
630.6 KM

**TRIP B**  
5 10.6 KM

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

### **Trip F**

**TRIP F**  
13.8 KM

This function shows the distance traveled after the low fuel indication symbol (  ) is 'ON' and 'FUEL EMPTY' message displayed at alpha numeric display. The display switches automatically to 'TRIP F' once the low fuel indication is 'ON' and starts counting from 0.0 km.

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

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

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

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

### **m. Side stand indicator**

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



#### **Note**

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

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



## MODE AND SET BUTTONS

The Mode and Set buttons are provided to change between various 'TRIP' modes and to set the some of the digital display functions of the instrument cluster. The sequence of modes and their selections are explained in detail below.

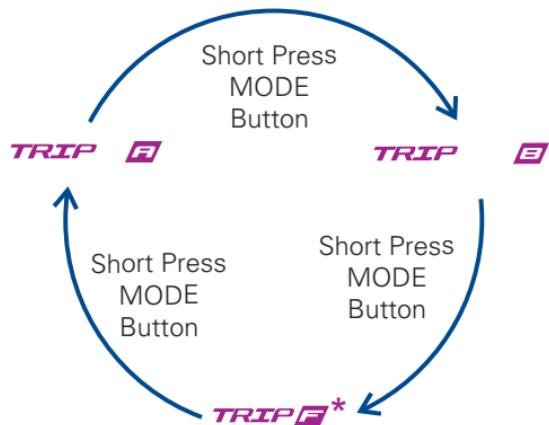


### Note

*The above mode changes are possible only when the vehicle is in static for safety.*

Short press the Mode button to access the following modes:

1. Trip A
2. Trip B
3. Trip F\*



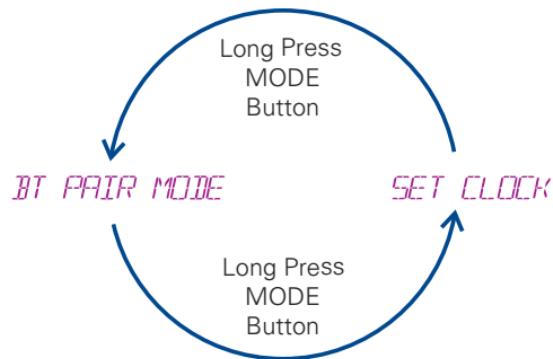
### Resetting Trip A and B

Press the 'Mode' switch once or twice to change the display to 'TRIP A' or 'TRIP B' mode which needs to be reset. Now press the 'Set' switch for 5 seconds to reset the respective trip data.

\* 'TRIP F' can be accessed incase of low fuel only.

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

1. Bluetooth paring mode
2. Set clock



#### 4. BT pair mode

This mode can be entered by pressing 'MODE' button for 5 secs from STREET / RIDE mode.



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



**TVS CONNECT**

### Note

*In this mode, if the vehicle speed crosses above 2 km/h, the connected instrument cluster will enter to 'TRIP A' mode automatically.*

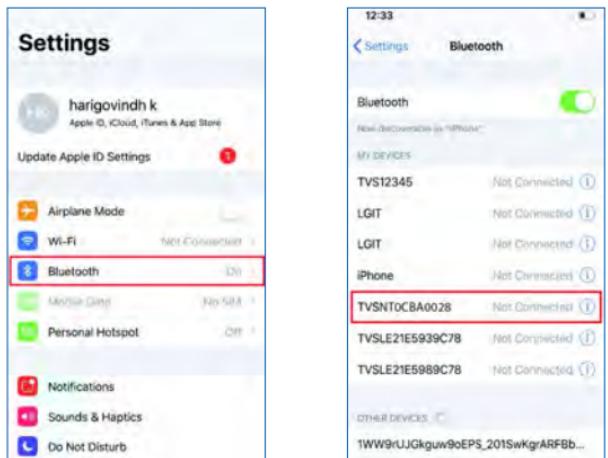
*Any number of Android phones can be auto-paired with the instrument cluster.*

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

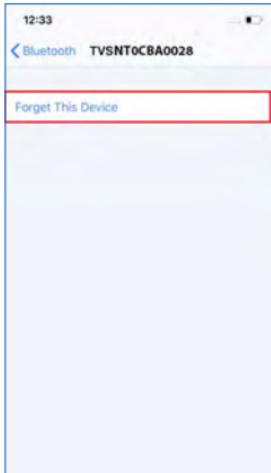
*If the vehicle battery is reset or fuse is blown, then too "Forget This Device" from Bluetooth settings in the phone has to be done.*

### Steps to "Forget This Device" in iPhone:

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



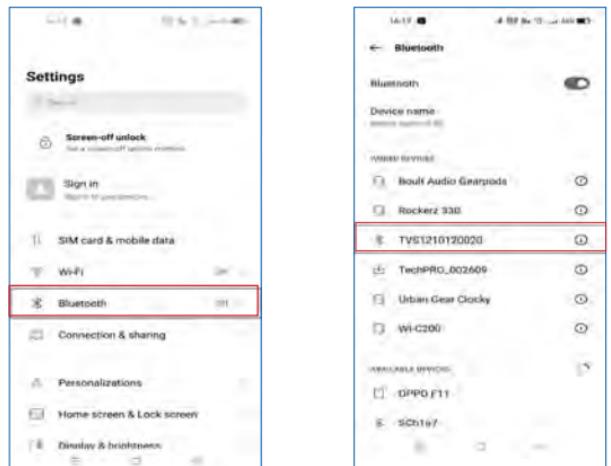
1. In the previous connected iPhone, open the SETTINGS -> BLUETOOTH.
2. Select the instrument cluster, which was connected previously.
3. Click on the “Forget this device”.



### 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.



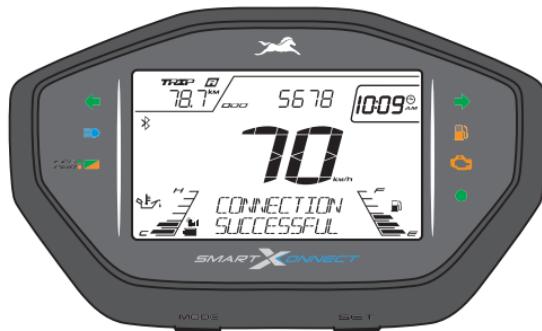
### First time Bluetooth paring:

To pair your Android smart phone or iPhone with your TVS Zest'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 "**CONNECT**", ensure the smart phone is near to the vehicle.
4. The app searches for all Bluetooth devices nearby and displays the list of devices available.



5. The connected instrument cluster's Bluetooth name is prefixed by TVSBT and followed by alpha-numeric digits. Ex : 'TVSBT12345'. This Bluetooth name can be found by changing the cluster mode into BT pair mode.
6. Now, select the 'TVSBT12345' in app to initiate the pairing process.
7. On pairing, the alpha-numeric display of connected instrument cluster displays 'CONNECTION SUCCESSFUL' message for 3 secs and a Bluetooth icon ' ' will be displayed on the speedometer. Additionally phone's battery icon and signal strength icon will be displayed on connected instrument cluster.



8. For initiating first time pairing, logout from the app, login again using your login credentials and then press CONNECT.

#### Note

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

*Please remember that, all the smart phones are not compatible for pairing with the TVS Zest'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.*

## Auto pairing

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

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

Every time auto-pairing happens, app will open automatically and connect with the Instrument cluster. The connected instrument cluster shows 'CONNECTION SUCCESSFUL'.

**CONNECTION  
SUCCESSFUL**

If your smart phone is disconnected from the vehicle's instrument cluster then Ex: 'JOHN DISCONNECTED' message will be displayed on the alpha-numeric display of connected instrument cluster.

**JOHN  
DISCONNECTED**

## 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 with manufacture's 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 Zest '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 button.*

Once the connected instrument cluster of your TVS Zest is connected with your smart phone, the connected instrument cluster displays Bluetooth '  ' icon, your mobiles battery level '  ' icon and network providers signal strength '  ' icon.

### Note

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

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

### **Incoming call alert display ' '**

The connected instrument cluster will display the incoming calls alerts from the smart phone via Bluetooth. Ex. 'CALL FROM AMIT', will be displayed if the contact is stored in the smart phone's otherwise number will be displayed. Ex. 'CALL FROM 9863571861'. The notification smart-connect notification LED (green LED) starts blinking on receiving the incoming call till the call is active.

CALL FROM  
AMIT

CALL FROM  
9863577867



### SMS alert display '✉'

The connected instrument cluster displays the incoming SMS from the smart phone via Bluetooth, Ex. 'SMS FROM AMIT', name of the sender will be displayed. The connected instrument cluster displays incoming SMS only if the number is stored in the contact list.

✉ *SMS FROM  
AMIT*

### Note

*The SmartXonnect Notification LED (green LED) blinks for five seconds approximately whenever there is a incoming message.*

*SMS alert display is not applicable for iPhones.*

### 5. Set clock mode

To enter the set clock mode, press 'Mode' button for more then 5 secs in Bluetooth paring mode. The digital clock starts blinking once the connected instrument cluster enters the set clock mode.

- Press the 'Mode' button while the digital clock is blinking. The hour digits of clock starts blinking and enables you to change the hours.
- Press the 'Set' button to increase the hours while hour digits are blinking.
- On pressing the 'Mode' button again the hours gets set and the minute digits starts blinking.





## TVS CONNECT APP

- Now, press the 'Set' button to increase the minutes while minute digits are blinking.
- Once again press the 'Mode' button so the minutes of the clock is set and the hours format 'AM' or 'PM' starts blinking.
- Press the 'Set' button to change the hour format either to set 'AM' or 'PM'.
- Press the 'Mode' button once again to set clock and wait for 5 secs to come out of set clock mode.

### Note

*In this mode, if the vehicle speed crosses above 2 km/h, connected instrument cluster will enter default screen.*

*If no input is given for more than 5 secs while the set clock mode is in operation, the connected instrument cluster comes out of this mode automatically.*

*The clock time gets sync automatically on paring your Android smart phone with the connected instrument cluster provided if auto sync clock setting is enabled in app.*

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

- Incoming call alerts in connected instrument cluster.
- Incoming SMS alerts in connected instrument cluster (applicable only for Android smart phones).
- Number of missed call alerts in connected instrument cluster.
- 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 Zest.
- 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.

This dedicated mobile app of your TVS Zest can be downloaded from the Google Play and the App 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 9 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.*

## 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.



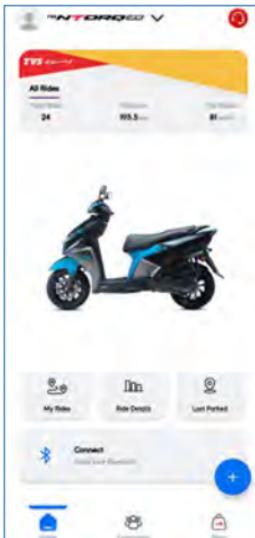
Now, an OTP verification screen will get open. Key-in or copy & paste the OTP received from TVSM to login.

### Note

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



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



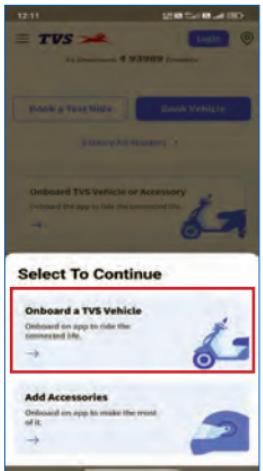
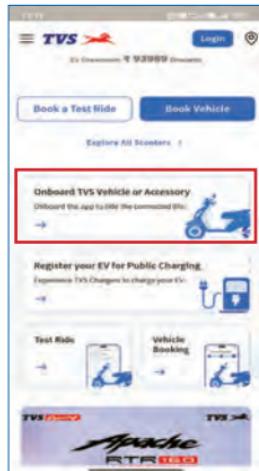
### Note

Refer App help for complete details.

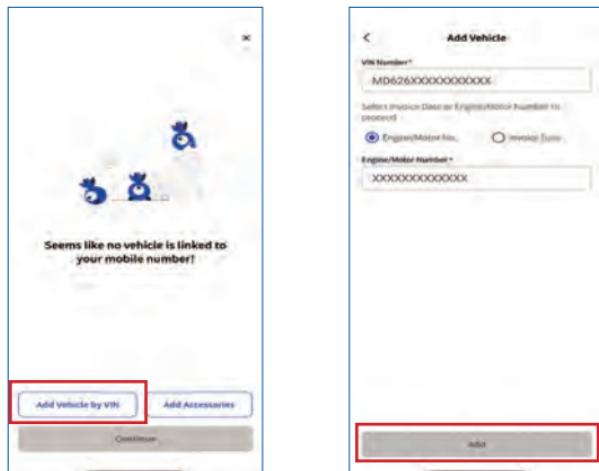
## Onboarding TVS Vehicle

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.

## HANDLE BAR LEFT SIDE

### 1. Horn switch

Press the switch '►' to operate the horn.

### 2. Turn signal lamp switch

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



### ⚠ Warning

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

### 3. Left hand brake lever (SBT brake lever)

Synchronised Braking Technology (SBT) can be operated by pressing the left hand brake lever gently towards the handle grip.

SBT technology helps to operate both front and rear brakes by distributing the force optimally between the two braking system.

### 4. Parking brake (rear brake lock lever)

Brake lock protects your scooter from rolling-off, when parked on side stand (or) helps you relax while waiting in a long traffic signal (or) a slope.

To activate brake lock, press the brake lever almost half towards the grip and hold, then press the parking brake lever to maximum and release the brake lever slowly. Ensure the brake is locked properly. Pressing the brake lever further releases the brake lock automatically.

### ⚠ 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.

Ensure to release the brake lock before riding the vehicle.

## 5. High/low beam switch

The head lamp glows automatically once the engine is started. Only the head lamp beam (high/low) can be controlled with the beam control switch

Press switch the towards '  ' to operate head lamp high beam or press it towards '  ' to operate head lamp low beam.

### **Warning**

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

## HANDLE BAR RIGHT SIDE



## 1. Engine kill switch

Engine kill switch is used to switch 'OFF' the engine but to keep the other DC system active. With the ignition 'ON' condition, keep the switch in '  ' position to turn 'OFF' engine alone. Keeping the switch in '  ' position disables the ignition circuit and prevents the engine from being restarted.

To restart the engine, position the switch to the '  ' position

## 2. Right hand brake lever

Front brake system can be operated by pressing the right hand brake lever gently towards the throttle grip. The brake lamp glows on application of either right hand or left hand brake lever.

## 3. Throttle grip

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

### **Caution**

*It is not recommended to add any additional throttle grip (cover).*



#### 4. Electric starter switch

Retract the side stand and press the starter switch '⚡' to start the engine electrically along with the application of either front or rear brake.

#### SEAT LOCK

TVS ZEST comes with a lockable seat which need to be opened to access the fuel tank cap, utility box, helmet hook, tool kit and fuse.

Insert the control key into the seat lock and turn it in clockwise direction. Now lift the seat assembly.

To close the seat, gently press the seat in its position and ensure the locking of seat by hearing a 'click' sound and take out the key.



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

## FUEL TANK# CAP

Fuel tank is located at the rear end of the vehicle below the seat. Open the seat as explained earlier to access the fuel tank cap. Remove the fuel tank cap by rotating it in anti-clockwise direction and fill the fuel as recommended. Re-fix the cap and close the seat.



## ⚠ Warning

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



## Caution

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

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

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

## KICKSTARTER LEVER

The kickstarter lever is located on the left side of the vehicle. To start the vehicle, keep the ignition in 'ON' condition and apply the rear brake as a safety precaution to prevent the rear wheel rotation.

Keep your foot on the lever extension as shown in the figure. Kick the lever from top and stroke to bottom with rapid motion.



## EFFORTLESS E-Z CENTRE STAND

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

To place the vehicle on centre stand, hold the handle bar left grip with left hand. Place your foot firmly on the centre stand extension (2) and press.



### Caution

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

### Side stand\*

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



### Warning

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

### TOOL KIT AND FIRST AID KIT

To assist you in performing certain aspects of periodic maintenance and emergency repairs, a tool kit is supplied along with the vehicle and it is located below the seat base.

Lift the seat by unlocking the seat lock as explained in page no. 48, to access the tool kit.



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

1. 16x17 mm box spanner
2. 10x12 mm spanner
3. Combination screw driver bit
4. Screw driver handle
5. Tool bag

 **Caution**

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

### **FRONT GLOVE BOX\***

Open type front glove box is provided in your scooter to store easy and quick access things like notebooks, files, water bottles etc.



 **Caution**

*Recommended not to keep valuable items inside the glove box while leaving the vehicle unattended.*

\* Accessory will be charged extra

## UTILITY BOX

Utility box is located below the seat. Lift the seat by unlocking the seat lock as explained in page no. 48 to access the utility box.



### Caution

*Take care not to spill petrol or oil into the utility box. Do not keep heat-sensitive items inside as it may get hot on long rides. **Recommended not to keep valuable items inside the utility box while leaving the vehicle unattended.***



*Utility box can be used to carry a load of 19 litres maximum. Do not carry perishable items inside the utility box. It is not fully sealed. Do not allow / spray water to get inside the utility box.*



## BAG HOOKS

There are two bag hooks provided with your scooter to carry light luggage like carry bags weighing upto 3 kg. One hook is located below handle bar on the rear panel which is retractable. Just pull out the hook from the top to hang your luggage. Push back the hook once it is free. The other hook is located on the cover front below front end of the seat assembly.



### Caution

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

## HELMET HOOK

A helmet hook is provided under the seat, at front right side end of the utility box to secure your helmet. Open the seat assembly as explained in page no. 48 to access the helmet hook. Hook the helmet strap in the helmet hook and close the seat.



### Caution

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

## SMART PHONE CHARGER\*

All new smart phone charging port has been provided in the utility box of your vehicle. Please follow the guidelines mentioned below for using it properly:



### DO's

1. Ensure that no water enters into the unit, by closing the USB flap properly.
2. Use the USB, if approved standard USB cable used for charging mobile.
3. The chassis number of the vehicle can be accessed by taking the smart phone charger unit from its mounting. Ensure to refit the charger unit properly.
4. 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.

\* Accessory will be charged extra



**PRE RIDE INSPECTION**

Check the following items before riding

ITEM	WHAT TO CHECK FOR
Engine oil	Availability of oil upto the level (page no. 71)
Transmission oil	Availability of oil upto the level (page no. 72)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no. 77) Adequate tread depth / No cracks or cuts.
Battery	Proper working of electric starter, horn, fuel gauge, pass by, brake lamp and turn signal lamps. Battery voltage (page no. 65)
Lighting	Proper working of head lamp high / low beam, high beam indicator, position lamp, speedometer back illumination, tail lamp and license plate lamp.
Steering	Smooth movement / no play or looseness
Throttle	Correct free play of cable / smooth operation
Brakes	Correct front / rear brake lever play (page no. 73)
Wheels	Free rotation of front and rear wheels

 **Caution**

*Do not switch 'ON' the ignition without minimum level fuel in the tank. It will cause damage to the pump.*

## Starting the engine

Ensure the availability of fuel in the fuel tank. Insert the control key into the ignition cum steering lock and turn it to the 'ON' position. Turn the engine kill switch to the 'O' position. In side stand retracted condition, apply any one of the brake and press the electric starter switch to start electrically or kick start. Press the start button without applying the throttle. As soon as the engine starts, release the start button. The engine will not start if the throttle is opened full.

## Setting the vehicle in motion

1. Twist the throttle grip towards you and simultaneously release the brake lever gently and smoothly. The vehicle will start moving forward.
2. As the vehicle picks up speed, increase the throttle slowly.



### Caution

*Do not keep the engine in idling rpm for long and do not open excessive throttle when the vehicle is parked. It leads to overheating of engine and damage to the internal components.*



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

## Stopping and parking

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



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

## FUEL RECOMMENDATION

Use only BS VI petrol with minimum RON 98. BS VI petrol containing upto 20% of ethanol by volume can be used.

Higher ethanol content in petrol can lead to

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



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

Painted parts (viz. panels, covers) shall not come in contact with ethanol blended fuels.

Manufacturer is not responsible for any warranty issues that results from using ethanol blend in excess of 20% by volume.

In 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. 61).

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. Clean and adjust the spark plug only if necessary. Replace the spark plug every 12000 kms (1 year). Always use recommended spark plug only.

### Air cleaner element

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

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

### Engine oil and Transmission oil

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

Running with low transmission oil will cause damage to the gears and bearings. **Regularly inspect the engine oil and the transmission oil for correct level and top-up if necessary. Get it replaced at regular intervals as per the maintenance schedule.**

### Fuel leak

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

### Evaporation

Vehicle parked in the hot sun leads to wastage of fuel through evaporation. Also, lower fuel levels in the tank will have increased evaporation and condensation of moisture inside. Ensure to close fuel tank cap after every filling. If the fuel tank cap kept open for long time, it leads to safety and fuel loss.

### Tyres

Low tyre pressure has adverse effect on the vehicle. The **drag on the vehicle** increases resulting decreased fuel economy. Further more, handling may be adversely affected.

Inspect the tyre pressure regularly (weekly) and inflate it to the recommended pressure (refer page no. 77). Never use tyres which are worn beyond the permissible limit.

### Wheel freeness

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

### Avoid unnecessary idling

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

### Avoid frequent braking

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

### Note

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

### MAINTENANCE SCHEDULE

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

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

A yellow triangular warning icon with a black exclamation mark inside.

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

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

## PERIODIC MAINTENANCE SCHEDULE (months or km whichever occurs earlier)

Item	Service km	In free service				After free service		Remarks
		1st 500 - 750 2 months	2nd 2500 - 3000 4 months	3rd 5000 - 6000 8 months	4th 8500 - 9000 12 months	Every 3000 km 4 months	Every 6000 km 8 months	
Period from the date of sale								
Engine oil	R	I & T	R	I & T	I & T	R		
Oil filter (strainer)	C	-	C	-	-	C		
Transmission oil	R	I & T	R	I & T	I & T	R		
Spark plug	I	-	-	-	-	-	Inspect, Clean and adjust if required. Replace every 12000 km	
Air cleaner element	I	-	-	-	-	-	Replace every 12000 km	
Air cleaner oil collection tubes	-	I & DR	I & DR	I & DR	I & DR	-	Drain oil if necessary	
CVT filter element <sup>1</sup>	-	-	I & C	-	-	I & C	Replace every 12000 km	
Tappet clearance	I	-	I & A	-	-	I & A	Inspect for any noise / starting trouble and adjust if required	
Drive belt and CVT rollers	-	-	-	-	-	-	Replace every 24000 km	
Cover variator <sup>2</sup>	-	-	I, C & L	-	-	I, C & L		
Clutch shoe	-	-	-	-	-	-	Replace every 24000 km	
Hose fuel	-	-	-	-	-	-	Replace every 3 years	
Front and rear suspension	I	I	I	I	I	-	Inspect for proper functioning	
All control cables <sup>3</sup>	I, A & L	I, A & L	I, A & L	I, A & L	I, A & L	-		

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

<sup>1</sup> Inspect for damage

<sup>2</sup> Clean the cover with air. Lubricate kick starter with Bechem grease

<sup>3</sup> Inspect for proper operation and adjust play. Lubricate ends using grease

Contd...



Item	Service km	In free service				After free service		Remarks
		1st 500 - 750 2 months	2nd 2500 - 3000 4 months	3rd 5000 - 6000 8 months	4th 8500 - 9000 12 months	Every 3000 km 4 months	Every 6000 km 8 months	
Period from the date of sale								
Throttle grip	—	—	L	—	—	—	L	Lubricate using grease
Steering smooth operation / play	I & A	—	—	—	—	—	—	C, L & A with fresh grease every 12000 km
Speedo hub drive / cable	—	—	L	—	—	—	L	Lubricate using grease
Front fork oil	—	—	—	—	—	—	—	Replace every 24000 km
All fasteners	I & TI	I & TI	I & TI	I & TI	I & TI	I & TI	—	
All bulbs, horn and switches	I	I	I	I	I	I	—	Inspect for proper functioning
Head lamp beam	I & A	I & A	I & A	I & A	I & A	I & A	—	
Battery electrolyte level	I & T	I & T	I & T	I & T	I & T	I & T	—	
Specific gravity & voltage <sup>4</sup>	I	I	I	I	I	I	—	
Brake effectiveness / play	I & A	I & A	I & A	I & A	I & A	I & A	—	Refer page No. 58 & 61 for details
Brake cam	—	—	C & L	—	—	C & L	—	Lubricate using grease
Wheel freeness	I	I	I	I	I	I	—	
Front wheel bearing	—	—	—	—	—	—	—	Lubricate using grease every 12000 km
Tyre pressure at cold condition	I & S	I & S	I & S	I & S	I & S	I & S	—	
Malfunction indicator lamp	I	I	I	I	I	I	—	Check and resolve the errors using diagnostic tool if the lamp is ON even after starting the engine

<sup>4</sup> Recharge if necessary

Contd...

Item	Service km	In free service				After free service		Remarks
		1st 500 - 750	2nd 2500 - 3000	3rd 5000 - 6000	4th 8500 - 9000	Every 3000 km	Every 6000 km	
Period from the date of sale	2 months	4 months	8 months	12 months	4 months	8 months		
Evaporative emission control system	I	I	I	I	I	-	Check for intactness of hoses and canister	
Fuel tank assembly**	I & C	I & C	I & C	I & C	I & C	-		
Centre / side stand pivot	L	L	L	L	L	-	Lubricate using TRU4 oil	
Kick starter pedal pivot	L	L	L	L	L	-	Lubricate using TRU4 oil	

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

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



## RECOMMENDED LUBRICANTS

APPLICATION	QTY	MANUFACTURER	BRAND
Engine oil	750 ~ 800 ml (during regular service) 800 ml (incase of disassembly)	TVS Motor Company	TVS TRU4 SKUUTA oil (SAE 10W30 API-SL, JASO MB)
Transmission oil	100 ml (during regular service) 120 ml (incase of disassembly)	-do-	-do-
Front fork oil	53 ± 1 ml / leg	IOC / HPCL / Castrol	Gabriel Premium front fork fluid
Grease	-	Bharat petroleum IOC Bechem Kluber Lubrication	MP Grease no. 3 Servo Gem no. 3 Bechem premium 3 Kluber Centoplex 2

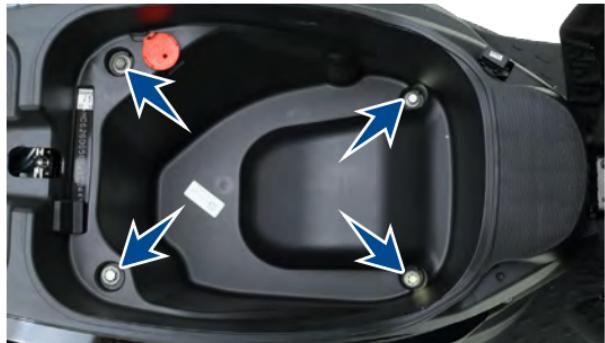
## SELF - MAINTENANCE PROCEDURES

### BATTERY

Battery is located below the seat, at front end and enclosed by the utility box.

To access and inspect the battery, utility box must be removed in the following manner.

1. Open the seat by unlocking the seat lock (refer page no. 48).
2. Remove the fuel tank cap.
3. Remove the mounting bolts of utility box using suitable spanner.



4. Take out the utility box along with the seat while carefully disconnecting the wiring socket of utility box lamp and diagnostic coupler (please note that the seat comes along with utility box since it is mounted on the utility box).

But to ensure the battery performance and long life, follow the steps given below:

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



2. Do not add any additional electrical accessories other than recommended by TVS Motor Company Limited.
3. It is recommended to remove the negative (-) terminal first and then the positive terminal (+). Similarly, while connecting connect the negative terminal (-) first and then the positive terminal (+).
4. While connecting the terminals observe the correct polarity. Connect the red wire to the positive (+) terminal and the black wire to the negative terminal (-) of the battery.
5. Petroleum jelly must be applied at terminals to prevent it from corrosion.

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



### Caution

*Never check the battery charge by shorting the terminals.*

*Always connect the positive terminal first (red wire) and then negative (black wire) to avoid sparking. The inversion of the battery wires can damage the battery and the recharging system.*

\* To be done by skilled personnel

### 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

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

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

## 2. During Storage

- a. Store it at room temperature or lower.
- b. 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

- a. Connect the wires and fuse, if disconnected earlier, with ignition switch in OFF position\*
- b. Start the vehicle by kick starting.

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

### Periodic Maintenance of Batteries:

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

- 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 trash. 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.*

\* To be done by skilled personnel



## FUSE REPLACEMENT

Non-working of electrical systems may be due to safety fuse failure. Short circuit or overload in the electrical system are the main cause for fuse failure. Two different fuses are provided in TVS ZEST they are:

- Main fuse - 15A
- Load fuse - 10A
- EMS fuse - 10A

The main fuse is located near the battery and the EMS, load fuse are located below the cover front.

Follow the procedure given below to inspect and replace the fuse:

### Main fuse

1. Open the seat assembly as explained in page no. 48.
2. Fuse case fitted on the front left side of the utility box below seat contains a 15A fuse. Open the fuse case and take out the fuse.
3. Inspect the fuse for failure. If found defective, replace the fuse with the extra fuse provided in the wiring harness itself.
4. Close the fuse case and re-fix into its location.



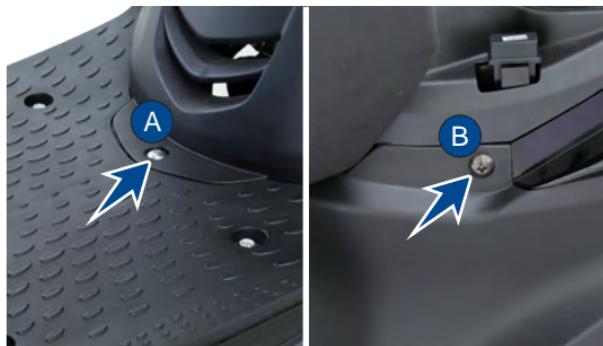
5. Turn 'ON' the ignition lock and check for proper functioning of electrical systems. Incase the fuse fails again, consult the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

### Load & EMS fuse

To access the load and EMS fuse, cover front need to be removed. Follow the procedure given below for the removal of cover front.

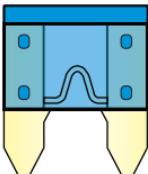
1. Remove the bottom mounting screw (A).
2. Open the seat by unlocking the seat lock (refer page no. 48) and remove the top mounting screw (B) from both the sides of the cover front.

3. Gently pull out the cover by dislocating its lugs.
4. Fuse case fitted on the left side of the battery bellow the main fuse case which contains two 10A fuses. Pull out the fuse case from the mounting. Open the fuse case and take out the fuse.
5. Inspect the fuse for failure. If found defective, replace the fuse with the extra fuse provided inside the fuse case itself.
6. Close the fuse case and re-fix into the frame bracket.

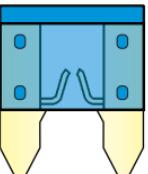


7. Turn 'ON' the ignition lock and check for proper functioning of electrical systems. Incase the fuse fails again, consult the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Good Fuse



Blown Fuse



**Caution**

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

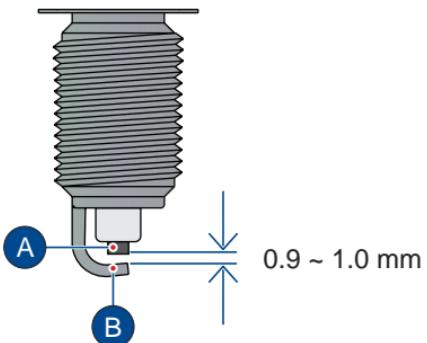
*Do not use fuse of higher amperage than specified for the safety of electrical system.*

## SPARK PLUG

To access the spark plug, cover front need to be removed (refer previous page).

1. Clean the dust and mud around the spark plug mounting to avoid falling inside the cylinder.
2. Using spark plug spanner of tool kit, 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 a new. Inspect the spark plug gap with a wire gauge / feeler gauge. Readjust the spark plug gap to **0.9 ~ 1.0 mm** if required.

After cleaning and adjusting the gap, reinstall the spark plug and tighten by hand to avoid cross threading. Finally tighten using spark plug spanner.

### Caution

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

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

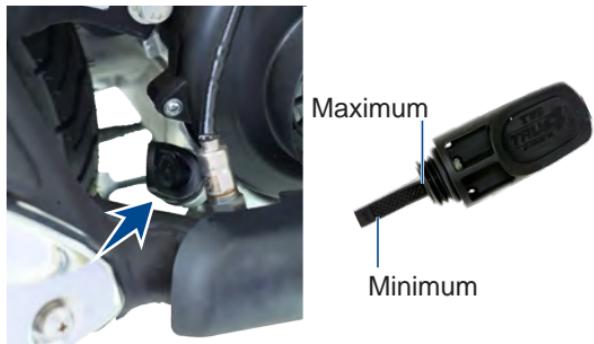
*Do not try to adjust the spark plug as it may damage the plug. Replace the plug if the gap is found more.*

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

## ENGINE OIL LEVEL

Check the engine oil level periodically.

1. Place the vehicle with the centre stand on a flat surface. Wipe-off the surroundings of gauge oil level.
2. Remove the gauge and wipe it clean.
3. Fix the gauge back to its mounting hole. Do not thread in.
4. Take out the gauge and check the oil level. The level should be between minimum and maximum level marks of the gauge (shown in the figure).



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

### **Caution**

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

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

## TRANSMISSION OIL LEVEL

Check the transmission oil level periodically.

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



6. Reassemble the oil level bolt with new fiber washer.

### **Caution**

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

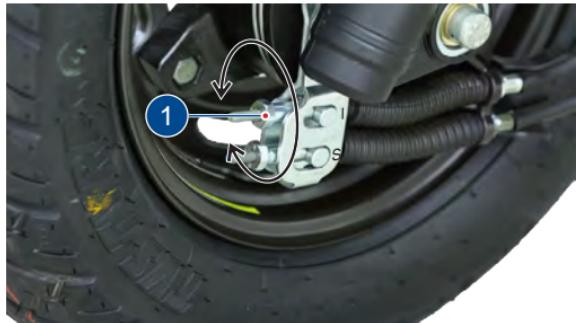
*Check the oil level as per the schedule to avoid costly damage. Do not fill excess oil may cause oil leak.*

*Always use 'TVS TRU4 SKUUTA (SAE 10W30 API-SL, JASO MB)' oil only.*

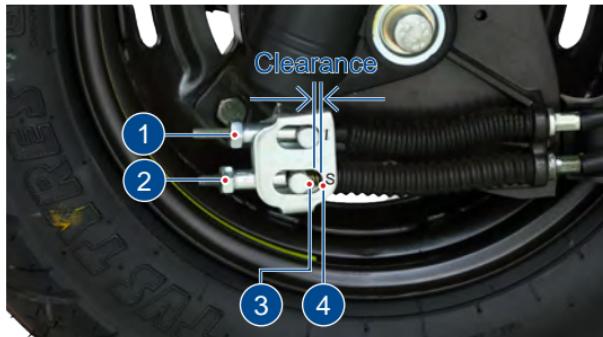
## BRAKES

### Front brake

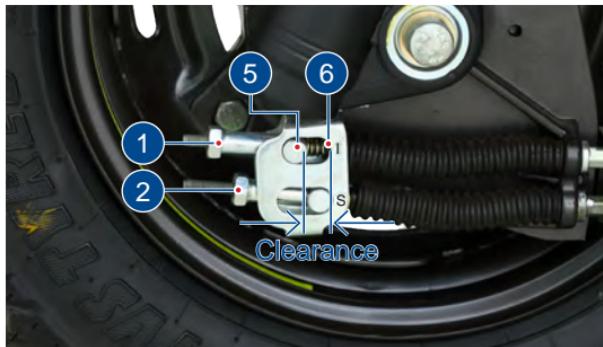
1. Measure the free play of the front brake lever at lever end as shown in the figure.
2. The free play of the brake lever before the engagement of brake should be between 15 ~ 20 mm.
3. Turn the adjuster nut at the top (1) in the slot marked as "I" in clockwise direction for reducing the free play or in anti-clockwise direction for increasing the free play.



4. After obtaining the necessary free play, inspect for the clearance between the bullet (3) and slot end (4) marked as "S" as shown in the figure.



5. If any clearance is found, turn the adjuster nut (2) at the bottom side in the slot marked as "S" in clockwise direction until there is no clearance between the bullet bottom (3) and the slot bottom (4).



6. After adjusting the bottom adjuster nut, if any clearance is observed between the bullet top (5) and the slot top (6) marked as "I" as shown, then turn the adjuster nut (2) in anti-clockwise until there is no clearance.
7. Once again check and confirm the brake play at the lever end.

 **Warning**

Since the vehicle is fitted with Synchronised Braking System (SBS) adjust the brakes with additional care. If not it may result in brakes not working properly. Please contact TVS Motor Company Authorised Main Dealer or Authorised Dealer for any further assistance.

## Brake shoe wear indicator - Front

When the brake is applied, wear limit index mark (1) on the front brake cam should be within the wear limit indicator (2) on the front brake panel.

Incase the wear limit index mark (1) is going beyond wear limit indicator (2), index the lever to next slot with the help of the Dealer to extend the shoe life.



### ⚠ Caution

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

## Rear brake

1. Measure the free play of the rear 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 10 ~ 15 mm.



### 👁 Note

***Please remember that the rear brake lever free play adjustment to be done only after adjusting the front brake lever play.***



3. If the measured free play is more than the limit, adjust the nut provided at rear wheel end to obtain correct play.
4. Turn the adjuster nut in clockwise direction for reducing free play or in anti-clockwise direction for increasing free play.



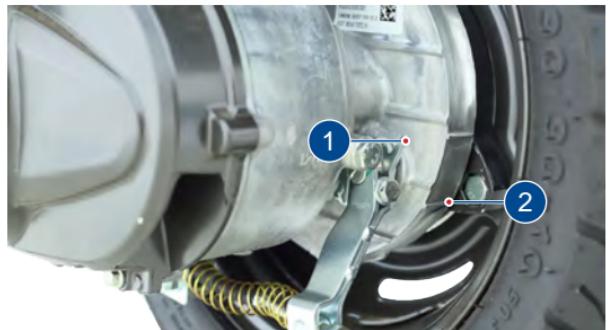
### **Warning**

Check front brake (drum brake type) and rear brake play periodically. However the brake play needs to be adjusted more frequently depending upon the usage.

### **Brake shoe wear indicator - Rear brake**

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

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



### **Caution**

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

## TYRES

### Tyre pressure

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

Under inflated tyres make smooth cornering difficult and over inflated tyres decrease the tyre contact with the ground which can lead to skidding and loss of control. Be sure that the tyre pressure is within the specified limits at all times.

Tyre pressure in cold condition:

	<b>Solo</b>	<b>Dual</b>
Front	1.68 kg/cm <sup>2</sup> (24 PSI)	1.70 kg/cm <sup>2</sup> (24 PSI)
Rear	2.00 kg/cm <sup>2</sup> (29 PSI)	2.53 kg/cm <sup>2</sup> (36 PSI)

### Tyre tread condition

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



### Tyre rotation direction

While reassembling the tyres after removing from the wheel rim or while assembling a new tyre ensure that the arrow mark (B) provided on the tyre facing the direction of wheel rotation.

### Tyre puncture

Your scooter is fitted with a tubeless tyre on both the 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.

### **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.*

### **Caution**

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

## Tyre Maintenance Tips

### Inflation pressure check - Condition



#### Note

*If vehicle is in hold condition for long time*

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

## FRONT WHEEL REMOVAL

1. Remove the axle nut (1) along with a washer. Take out the cover fork tube RH .
2. Pull out the axle (2) along with punched washer and take out the cover fork tube LH.
3. Take out the spacer from the right side of the wheel. Dislocate the hub drive from wheel hub.
4. Place a support below the foot board to prevent vehicle from falling and lift the vehicle up.
5. Dislocate the wheel assembly along with brake panel from front fork. Separate the brake panel from the wheel and take out the wheel.

6. Reverse the procedure for reassembling, while ensuring the proper seating of brake panel slot in the fork leg L lug (LH side) and hub drive lugs in the slots of wheel hub (RH side).



## REAR WHEEL REMOVAL

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



### Caution

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

## STORAGE PROCEDURES

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

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



### Caution

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

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

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



### Caution

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

## TAKING THE VEHICLE OUT OF STORAGE FOR REGULAR USE

1. Take the vehicle out of garage and clean it thoroughly.
2. Remount the battery after bench charging if required.
3. Fill the engine oil (TVS TRU4 SKUUTA - SAE 10W30 API-SL, JASO MB oil) and check the oil level using gauge oil level.
4. Fill the transmission oil (TVS TRU4 SKUUTA - SAE10W30 API-SL, JASO MB oil) and check the oil level at the oil level inspection screw.
5. Lubricate the parts as instructed in periodic maintenance schedule.
6. Fill up fresh petrol in the fuel tank.
7. Check and inflate the tyres to the specified tyre pressure.
8. Check and correct the points given in page No. 56.
9. Turn the ignition switch to 'ON' position. Retract the side stand if the vehicle is parked on side stand. Start the engine and let it idle for few minutes and ride out.

## 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. Head lamp and turn signal lamp bulb each one.
  4. Throttle, front and rear brake cable each one.
  5. First aid kit.
- B) Precautions to be taken for the journey:
  1. Ensure engine oil and transmission oil are up to the level.
  2. Adequate fuel in the fuel tank.
- C) Check your scooter for the following:
  1. Tightness of all bolts and nuts with correct torque value.
  2. Fitness of tyres / tyre pressure / tread depth.
  3. All bulbs, indicator lamps and horn functioning.



### Caution

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



4. Smooth functioning of all cables and their free play.
5. Smoothness of steering operation.
6. Front / rear brake function and rear brake lamp working.
7. Front fork for any abnormality.
8. Spark plug gap and condition of spark plug.
9. Air filter element cleanliness.
10. Lubrication of all items mentioned in the periodic maintenance schedule.
11. Any other job as necessary.
12. Have your vehicle checked at any TVS Motor Company Authorised Main Dealer or Authorised Dealer.

### **TVS Motor Company Limited ('the Company') give this warranty with respect to the TVS ZEST manufactured by the Company.**

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

During 5 years from the date of purchase or during the first 50,000 km of run for the vehicle, 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 ZEST. 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, DRL, AHO.
Service Maintenance Parts	Oil filters, spark plug, air filter, SAI filter, oils and brake fluid
Rubber, Rexine and Plastic Items	All hoses, pipes and plastic aesthetics
Proprietary Items	<p>Battery, tyres and tubes (the warranty terms are subject to our agreement with proprietary OEM)</p> <p>(Battery warranty for "MF type (Maintenance Free)" is applicable for a period of 21 months from the date of charging or 18 months from the date of sale or 20,000 kms, whichever is earlier).</p> <p>(Battery warranty for "Lead Acid type" is applicable for a period of 15 months from date of charging or 12 months from date of sale or 10000 kms whichever is earlier).</p>
Other Factors	<p>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.</p> <p>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.</p>



## List of parts not covered under warranty

ITEM	WHAT TO CHECK FOR
	<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 Manual.</p>
Other Factors	<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 seventeen services for TVS ZEST during warranty period. Of these, first four services are free services for which labour charges are free. In addition to these four free services, we have a scheme of thirteen pay services. For keeping the maintenance track of your vehicle, free and pay service record sheets are attached in the Service Handbook given to you during the time of your vehicle purchase. Please have the relevant record sheet filled by the Dealer who is carrying out the maintenance service.

For availing any of the warranty services, please take your vehicle and your Service Handbook to any of our Authorised Main Dealers or any of our Authorised Dealer. After effecting the service the Authorised Main Dealer or the Authorised Dealer will affix their stamp on the last column of free or pay service record sheet of Service Handbook for your record and reference.

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

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

### **Service Department**

**TVS MOTOR COMPANY LIMITED**

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

**TAMILNADU, INDIA.**

**Toll free no:- 1800-258-7111**



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

Sl.No.	Service	Type	Kms	Months
1	1st Service	Free	500 ~ 750	2
2	2nd Service		2500 ~ 3000	4
3	3rd Service		5000 ~ 6000	8
4	4th Service		8500 ~ 9000	12
5	5th Service	Pay	11500 ~ 12000	16
6	6th Service		14500 ~ 15000	20
7	7th Service		17500 ~ 18000	24
8	8th Service		20500 ~ 21000	28
9	9th Service		23500 ~ 24000	32
10	10th Service		26500 ~ 27000	36
11	11th Service		29500 ~ 30000	40

Sl.No.	Service	Type	Kms	Months
12	12th Service	Pay	32500 ~ 33000	44
13	13th Service		35500 ~ 36000	48
14	14th Service		38500 ~ 39000	51
15	15th Service		41500 ~ 42000	54
16	16th Service		44500 ~ 45000	57
17	17th Service		47500 ~ 48000	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**



## TECHNICAL SPECIFICATIONS



### MANUFACTURER

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

: TVS MOTOR COMPANY LIMITED  
Village Bhatian, Bharatgarh Road, Tech Nalagarh, Dist. Solan,  
Himachal pradesh - 174 101, India.

### ENGINE

Type	: Single cylinder, 4 stroke, fuel injection, air cooled, spark ignition engine
Cylinder bore	: 53.5 mm
Stroke	: 48.8 mm
Piston displacement	: 109.7 cc
Compression ratio	: $10 \pm 0.5 : 1$
Air filter	: Viscous paper filter element
Oil filter	: Wire mesh
Lubrication system	: Forced wet sump
Maximum power in kW	: 5.75 kW @ 7500 rpm
Maximum torque in Nm	: 8.8 Nm @ 5500 rpm
Maximum speed	: 80 km/h
Engine idling rpm <sup>†</sup>	: $1500 \pm 200$ rpm
Starting system	: Electric starter / kick starter
Emission norms	: BSVI

### TRANSMISSION

Clutch	: Dry - Centrifugal clutch
Primary transmission	: CVT (Continuous Variable Transmission)
Primary reduction	: 2.58 to 0.8
Secondary reduction	: 9.09

### CHASSIS

Overall length	: 1770 mm
Overall width	: 660 mm
Overall height	: 1139 mm
Ground clearance	: 135 mm (unladen)
Wheel base	: 1250 mm
Kerb weight (with toolkit and 90% of fuel)	: 102 kg
Pay load	: 150 kg
Maximum laden weight	: 252 kg

<sup>†</sup> Under warm condition

## CHASSIS

Frame	: Duplex tubular frame
Front suspension	: Telescopic hydraulic type
Rear suspension	: Toggle link, coil spring with hydraulic damper
Trail length	: 95.4 mm
Steering angle	: 90°
Caster angle	: 25°

## TYRE

### Tyre size

Front	: 90/100-10 53J (Tubeless)
Rear	: 90/90-10 50J (Tubeless)

### Tyre pressure

Front	: 1.68 kg/cm <sup>2</sup> (24 PSI)
Rear - solo	: 2.00 kg/cm <sup>2</sup> (29 PSI)
Rear - dual	: 2.53 kg/cm <sup>2</sup> (36 PSI)

## BRAKES

Front	: 110 mm dia drum (hand operated)
Rear	: 130 mm dia drum (hand operated)

## ELECTRICAL

Ignition system	: ECU controlled ignition
Spark plug	: BOSCH UR5KCW / CHAMPION RG8MC4
Spark plug gap	: 0.9 to 1.0 mm
Battery type	: 12V, 5Ah Lead Acid
Generator	: Fly wheel magneto 12V, 130W
Head lamp	: 12V, 35/35W
Tail / brake lamp	: 12V, LED
Turn signal lamp	: 12V, 10W x 4
Number plate lamp	: 12V, 5W
Instrument cluster	: LCD / LED indicators
Horn	: 12V, DC
Fuse (blade type)	: 12V, 15A x 1 12V, 10A x 2

 **Caution**

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



**CAPACITIES**

Fuel tank capacity#	: 4.9 l
Fuel	: BS VI petrol with minimum RON 98 (containing upto 20% of ethanol by volume)
Engine oil grade	: TVS TRU4 SKUUTA oil (SAE 10W30 API-SL, JASO MB)
Engine oil capacity	: 750 ~ 800 ml (during regular service) 800 ml (incase of disassembly)
Transmission oil capacity	: 100 ml (during regular service) 120ml (incase of disassembly)
Front fork oil grade	: IOC / HPCL / Castrol, Gabriel Premium front fork oil
Front fork oil capacity	: 53 ± 1 cc per leg



*Specifications are subject to change without notice.*

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

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:



GENERAL  
INSURANCE





ALWAYS USE TVS-M GENUINE PARTS



**TVS MOTOR COMPANY LIMITED.**

P.B. No.4 Harita, Hosur, 635109, Tamil Nadu, India

Telephone: +91 (4344) 276780.

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[www.tvsmotor.com](http://www.tvsmotor.com)