

**CONTACT(S) FOR SUPPORT**

**In case you need any Clarification or Service Assistance, please contact our Dealer**

Dealer code , name .....

Address .....

.....

.....

Contact person name and mobile no. (Sales)

.....

Contact person name and mobile no. (Service)

.....

Email id .....

**Or**

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

**Or**

**Toll Free Number : 18004252077**

**Email : Service.Support@tvsmotor.com**

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**CONTACT(S) FOR SUPPORT**

**CONTACT(S) FOR SUPPORT****CONTACT AT OUR AREA OFFICES****TAMILNADU-1****1. TVS Motor Company Limited**

SPL - Sriram Nivas, 1st Floor,  
No. 38, Venkatakrishna Road,  
Mandaveli, Chennai - 600 028.  
Phone : 044-24951652/24950018  
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**

D-09, Srinidhi Block, Agrini Apartments,  
Andalpuram, TPK Road,  
Madurai - 625 003.  
Phone : 0452-4208690  
Email : AO.Madurai@tvsmotor.com

**TAMILNADU-4 & PONDICHERRY****4. TVS Motor Company Limited**

No. 37, 1st Floor,  
West Brindavanam,  
Near Le Royal Park Hotel,  
Puducherry - 605 013.  
Email : AO.Pondicherry@tvsmotor.com

**KERALA****5. TVS Motor Company Limited**

Ambody 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

**ANDHRA PRADESH-1****6. TVS Motor Company Limited**

D-19, 302-3rd floor, Gayathri Arcade,  
Vikrampuri, Secunderabad - 500 003.  
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Email : AO.Hyderabad@tvsmotor.com

**ANDHRA PRADESH-2****7. TVS Motor Company Limited**

Door No. 58-2-35, NCK Plaza,  
NTR Circle, Patamata,  
Vijayawada - 520 010.  
Phone : 0866-6575100  
Email : AO.Vijayawada@tvsmotor.com

**KARNATAKA-1****8. TVS Motor Company Limited**

#600, Anand Surya, 2nd Floor, 5th Cross,  
6th Phase, JP Nagar, BMTC Stop,  
Bangalore - 560 078.  
Phone : 080-42455000/25118000  
Email : AO.Bangalore@tvsmotor.com

**KARNATAKA-2 & GOA****9. TVS Motor Company Limited**

BDP Plaza, 3rd floor, New Cotton Market,  
Karnataka Bank Road, Hubli - 580 029.  
Phone : 0836-4250617/4250618  
Email : AO.Hubli@tvsmotor.com

**CONTACT(S) FOR SUPPORT****CONTACT AT OUR AREA OFFICES****MAHARASHTRA-1 & 2****10. TVS Motor Company Limited**

#401, 4th floor,  
The Chambers, Plot No. 4/12/3,  
Near Ganpati Chowk,  
Viman Nagar, Pune - 411 014.  
Email : Service.pune@tvsmotor.com

**MAHARASHTRA-3****11. TVS Motor Company Limited**

Plot No. 206, House No. 241,  
Ward No. 73, 1st floor,  
West High Court Road,  
Dharampeth, Nagpur - 400 010.  
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Email : AO.Raipur@tvsmotor.com

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Chinar Fortune City,  
Near Brindavan Dhaba,  
Hoshangabad Road, Bhopal - 462 026.  
Phone : 0755-2499406/2499306  
Email : AO.Bhopal@tvsmotor.com

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Indore - 452 010.  
Phone : 9826388896  
Email : AO.Indore@tvsmotor.com

**GUJARAT****15. TVS Motor Company Limited**

109, Ayana Complex,  
Opp : Suvarna Villa Bungalows,  
100 ft Thaltej Hebatpur road,  
Off : S.G. highway, Thaltej,  
Ahmedabad - 380 054.  
Phone : 079-65443748  
Email : AO.Ahmedabad@tvsmotor.com

**UTTAR PRADESH-EAST & CENTRAL****16. TVS Motor Company Limited**

1st floor, Cyber Tower, TC-34/V-2,  
Vibhuti Khand, Gomti Nagar,  
Lucknow - 226 010.  
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Email : AO.Upe@tvsmotor.com  
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**UTTAR PRADESH-WEST &  
UTTARAKHAND****17. TVS Motor Company Limited**

K-23, 1st floor, Lajpat nagar, Part II,  
New Delhi - 110 024.  
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Baltana Road, Zirakpur,  
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**RAJASTHAN-2****21. TVS Motor Company Limited**

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Daulet Chambers, 4-D,  
Sardarpura, Udaipur - 313 004.  
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P.S. Kotwali, Patna - 800 001.  
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Ranchi - 834 002.  
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Creative Plaza, Rasulgarh,  
Bhubaneshwar - 751 010.  
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Gariahat, Kolkata - 700 029.  
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Email : AO.kolkata@tvsmotor.com

**NORTH EAST STATES****26. TVS Motor Company Limited**

147, Udayan, Ganesh Guri,  
Opp. Punjab National Bank,  
R G B. Road,  
Guwahati - 781 005.  
Phone : 0361-2202030/2202031  
Email : AO.Guwahati@tvsmotor.com

## UNIQUE FEATURES OF Scooty Zest 110

### ZEST for POWER

#### Next-Gen 110cc CVTi ENGINE WITH DIGITAL IDI IGNITION

Your scooter is powered by a Next Gen 110cc CVTi engine with 8.0 bhp. It uses Digital IDI Ignition with in-built variable timing modes to ensure that you get the best from your 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

#### METALLIC COLOUR

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



### BACK-LIT SPEEDOMETER

Your scooter comes with a stylish back-lit speedometer, introduced for the first time in scooters industry.



### 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.



## UNIQUE FEATURES OF Scooty Zest 110



### NEW TEXTURED FLOORBOARD

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 98.5 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.



## UNIQUE FEATURES OF Scooty Zest 110

### **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 including a full-face helmet.



#### **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.



### **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.



## UNIQUE FEATURES OF Scooty Zest 110



### HELMET HOOK

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



### INDICATOR BUZZER\*\*

Your scooter has an electronic buzzer which alerts you that the turn signal indicators are 'ON'.



### AUTO-CHOKE

The auto-choke helps your scooter start effortlessly even in cold weather.



### AUTO FUEL COCK

Your scooter has an auto fuel cock which supplies fuel based on the engine suction. It is not necessary to switch the fuel cock 'ON' and 'OFF' manually.



### 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.



### HANDLE BAR LOCKABLE ON BOTH SIDES

The handle bar of your scooter can be locked on both right and left sides for added ease while parking in compact spaces.



### SMART PHONE CHARGER

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



*\*\* Accessory will be charged extra*

## UNIQUE FEATURES OF Scooty Zest 110

### 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 or Power mode. This unique feature of your scooter enables to manage your scooter fuel efficiency.



#### LONG-IDLING INDICATOR

The long-idling indicator reminds you to switch off the ignition while waiting at signals or when your scooter is idle, thus helping you to save fuel.



### 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.



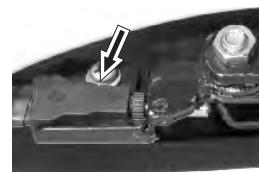
#### FOLDABLE PILLION SIDE FOOT REST\*\*

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



#### SIDE-STAND BEEPER\*\*

Side-stand beeper is supplied as an accessory for your scooter. It provides a reminder that alerts you to remove the side stand once ignition starts. Contact your nearest TVS Motor Company Authorised Main Dealer or Authorised Dealer to fix the side-stand beeper



*\*\* Accessory will be charged extra*

## FOREWORD



Dear Scooty Zest Owner,

Congratulations and welcome to the world of fun and exciting rides with your **Scooty Zest 110**.

You've made a smart decision, choosing to ride ahead on the brand new **Scooty Zest 110**. You'll find that it meets all your needs by striking the perfect balance between power, style, comfort, convenience and mileage.

The stylish new Scooty Zest 110 is crafted especially for you. Its 110cc CVTi engine gives you awesome pick-up and zippy rides.

The Scooty Zest 110 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 benefits of Scooty Zest 110 don't end there. With its largest under-seat storage of 19 litres, it gives you the all the space to carry your world with you.

But best of all, it's easy on your pocket, with its best-in-class mileage of 62 kmpl.

This manual explains in detail, the many features, benefits and operations of your Scooty Zest 110. 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 Scooty Zest 110 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 ahead with Zest!

**TVS MOTOR COMPANY LIMITED**

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**NOTICE**

This manual should be considered as a permanent part of the scooter and should remain with the scooter when resold or transferred to a new owner.

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

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

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**Note**

*Accessories shown in the picture may not be part of the standard equipment.*

**NOTICE**

Part Number :- K4210360

Revision 3, Aug 2015

## SAFETY INFORMATION



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

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



### Warning

*Disregarding this message might result in ***injury to the rider.****



### Caution

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



### Note

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

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## RUNNING-IN INFORMATION



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

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

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

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



### Caution

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

## SAFE RIDING TIPS



### 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 Scooty Zest Riding skill and your mechanical knowledge form the foundation of safe riding practices. We suggest you to practice riding Scooty Zest 110 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.

#### Posture

Proper vehicle riding starts with proper posture.

1. Keep your elbows inside close to the body and flexible.



#### Warning

**Two wheeler safety equipment starts with a safety helmet of good quality.** One of the most serious injuries that can happen is a head injury. Always wear ISI approved helmet. You should also have good suitable eye protection.

**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.**

2. Hold your arms at an angle of about 120°.
3. Hips should be in a position so that arms and shoulders are relaxed.
4. Look widely instead of gazing at one point.
5. Relax to guard against a sudden impact.
6. Point the toes straight ahead.

**SAFE RIDING TIPS****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.

 **Warning**

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

**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.**

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. Avoid directing the water jet directly towards brake drums during water wash.*

## Warning

*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, steerability, suspension level and ground clearance. Additional electrical equipments and controls should not exceed the specified electrical system load of the vehicle (capacity of battery and magneto).**

## EMISSION CONTROL

All the TVS vehicles are tested in the factory for optimum fuel efficiency and lowest possible CO levels. **Do not disturb the Carburettor settings as this may lead to higher fuel consumption and also higher CO levels.**

If the vehicle needs any adjustments, please consult nearest TVS Motor Company Authorised Main Dealer or Authorised Dealer.

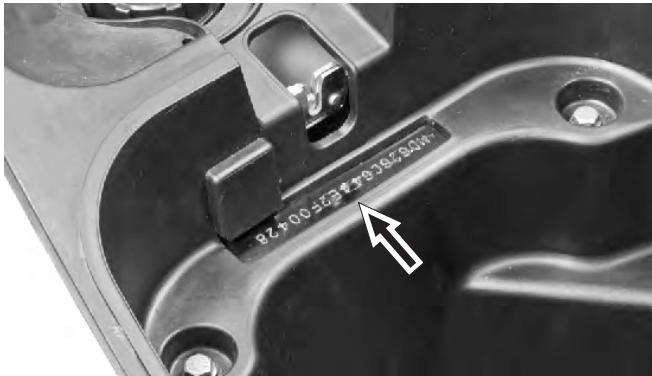
While adequate care is exercised at the factory to ensure that the emissions are within the limits, it is essential for the owner to always maintain the scooter in good condition by getting it periodically checked and serviced by TVS Motor Company Authorised Main Dealer or Authorised Dealer so that the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

## Note

**Get your vehicle certified by the Government authorised emission testing stations at specified intervals.**

**KNOW YOUR Scooty Zest 110****VEHICLE IDENTIFICATION NUMBER**

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



The frame serial number is stamped on the 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.

**Frame number**

**Engine number**

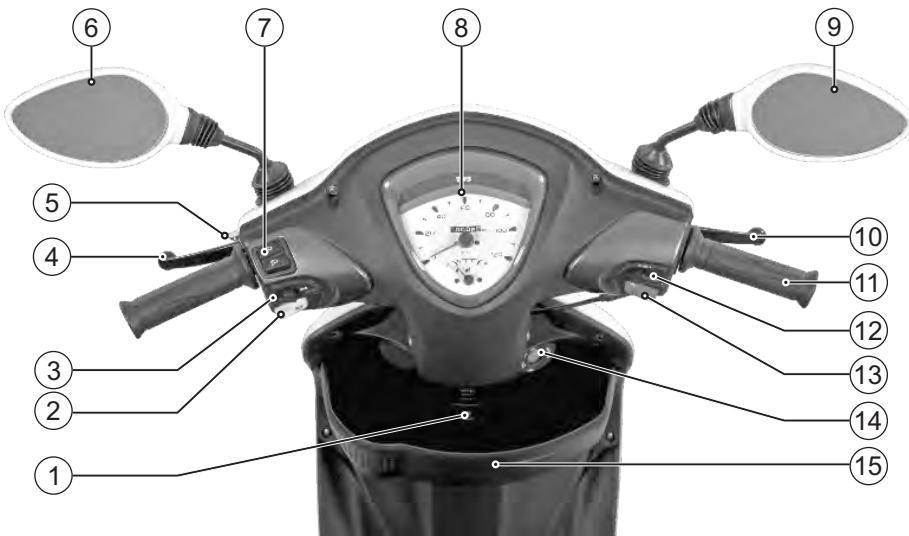
**Control key number**

Please fill the above boxes now for future reference

## KNOW YOUR Scooty Zest 110



### 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. Lights ON/OFF switch
13. Electric starter switch
14. Ignition cum steering lock
15. Glove box\*

\* Accessory will be charged extra

**KNOW YOUR Scooty Zest 110****LOCATION OF PARTS - VEHICLE LEFT SIDE**

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

\* Accessory will be charged extra

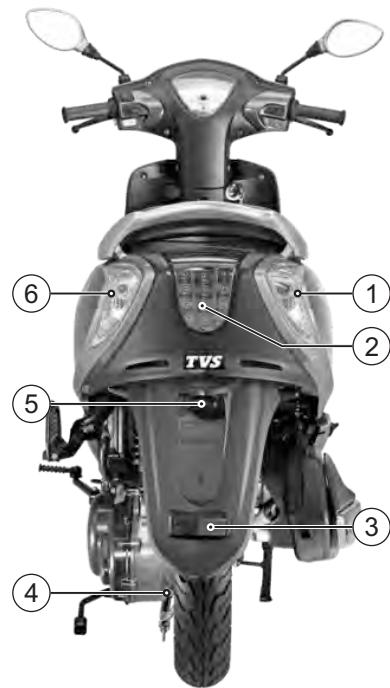
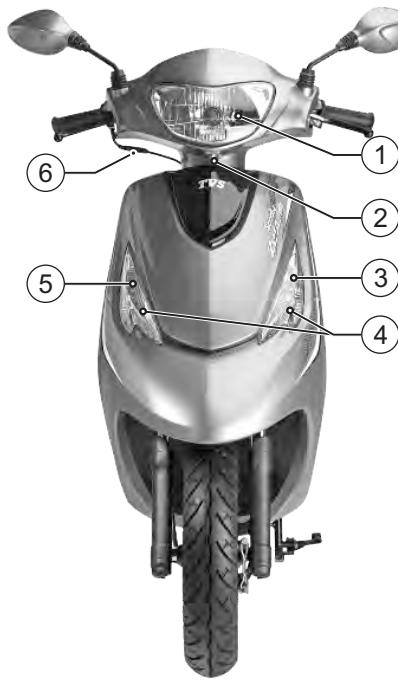
## KNOW YOUR Scooty Zest 110



### 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

**KNOW YOUR Scooty Zest 110****LOCATION OF PARTS - VEHICLE FRONT & REAR****FRONT**

1. Head lamp
2. Head lamp focus adjuster
3. Turn signal lamp front LH
4. Position lamps
5. Turn signal lamp front RH
6. Throttle cable adjuster

**REAR**

1. Turn signal lamp rear RH
2. Tail / brake lamp
3. Reflex reflector
4. Transmission oil level bolt
5. License plate lamp
6. Turn signal lamp rear LH

## CONTROL KEY

Scooty Zest 110 comes with a pair of identical control keys. These keys are to operate ignition cum steering lock and seat lock.

## IGNITION CUM STEERING LOCK

There are three positions in the ignition cum steering lock.

### 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

Scooty Zest 110 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 and take out. All the electrical circuits are turned 'OFF' in this position.

### 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 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. For safety, always lock the steering while parking.*

## KNOW YOUR Scooty Zest 110



### SPEEDOMETER ASSEMBLY

#### 1. Speedometer

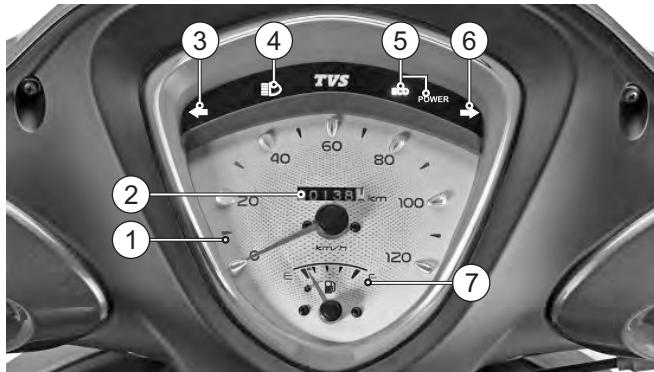
Indicates vehicle speed in kilometers per hour.

#### 2. Odometer

Registers and displays the total distance covered by the vehicle in kilometers. The last digit denotes one tenth of a kilometer.

#### 3. Turn signal indicator lamp left

Flashes when the left side turn signal indication is activated.



#### 4. High beam indicator lamp

Glow when the head lamp high beam is activated.

#### 5. Economy and power indicators

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.

#### 6. Turn signal indicator lamp right

Flashes when the right side turn signal indication is activated.

#### 7. Fuel gauge

Fuel gauge indicates the approximate quantity of fuel available in the fuel tank.

### Note

*Always ride the vehicle in economy mode for better fuel economy.*

## KNOW YOUR Scooty Zest 110

### Note

Whenever the vehicle is switched 'OFF' and started again, if the engine is kept running in idle mode for more than 110 seconds approx, 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.

Similarly, during running, if the vehicle is kept more than 20 seconds in idling mode, the power mode indicator blinks and warns again.

If the battery voltage is very low, power mode lamp will glow once you switch 'ON' the ignition key till you start the vehicle. Electric starter will not work in this condition. Use kick starter only. Contact TVS Motor Company Authorised Main Dealer or Authorised Dealer.

### HANDLE BAR LEFT SIDE

#### 1. Horn switch

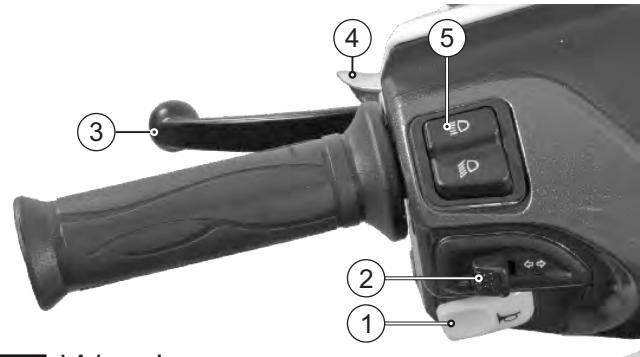
Press the switch 'horn' to operate the horn.

#### 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'.

#### 3. Rear brake lever

The rear brake is applied by squeezing the rear brake lever gently towards the handle grip. The brake lamp glows on application of rear brake.



### Warning

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

## KNOW YOUR Scooty Zest 110



### 4. Rear brake lock lever

Rear brake lock is useful when your scooter is parked with side stand on a slope to avoid falling. To apply the rear brake lock, squeeze the rear brake lever fully towards the grip as much required, by holding it as it is press and hold the brake lock lever. Now release the brake lever and ensure the brake is locked properly.

To release the rear brake lock, squeeze the rear brake lever further in and the lock will release automatically, then release the brake lever.

### 5. High/low beam switch

With the lights switch in 'ON' condition, press the high/low beam switch towards 'HIGH' to operate the head lamp high beam and towards 'LOW' to operate the head lamp low beam.

### Warning

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

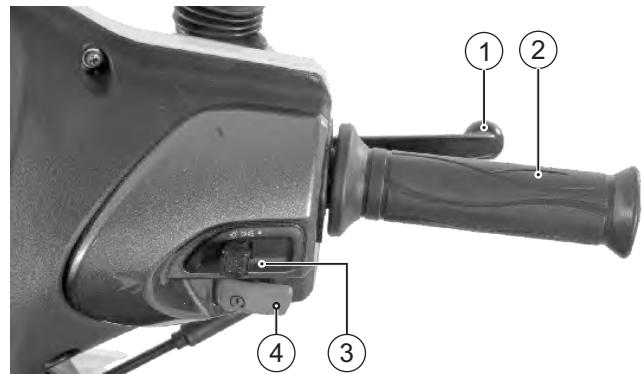
### HANDLE BAR RIGHT SIDE

#### 1. Front brake lever

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

#### 2. 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.



### 3. Lights switch

Light switch has the following positions. Working of switch at various position are as follows:

**OFF**: All the lamps are turned 'OFF' when the switch is positioned at '●' even though the engine is running.

**PO**: Position lamps, speedometer back illumination, tail lamp and license plate lamp glows when the switch is positioned at '■' and engine is running.

**ON**: Head lamp also glows along with the above mentioned lamps when the switch is positioned at '●' and engine is running.

### 4. Electric starter switch

Press the starter switch '⚡' to start the engine electrically along with the application of either front or rear brake.

### SEAT LOCK

Scooty Zest 110 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.

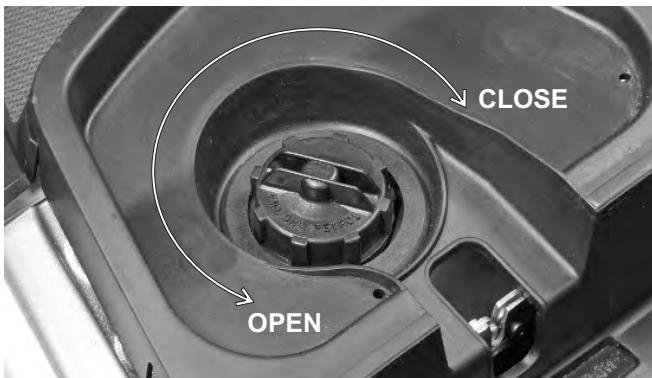


## KNOW YOUR Scooty Zest 110



### 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.*

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

### 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.

## KNOW YOUR Scooty Zest 110

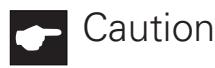
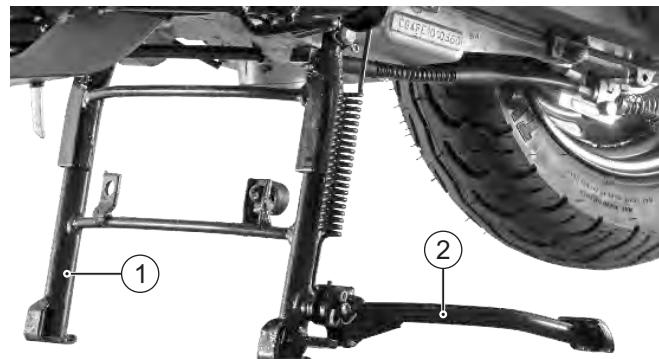


Keep your foot on the lever extension as shown in the figure. Kick the lever from top and stroke to bottom with rapid motion.



### EFFORTLESS E-Z CENTRE STAND

Scooty Zest 110 is equipped with a effortless centre stand. The centre stand (1) has a pivoted flexible spring loaded lever arm (stand extension) (2) to increase the lever ratio, which enables parking on centre stand effortlessly and very conveniently. To place the vehicle on centre stand, hold the handle bar left grip with left hand. Place your foot firmly on the centre stand extension (2) and press.



**Caution**

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

## KNOW YOUR Scooty Zest 110



### SIDE STAND\*

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



#### Warning

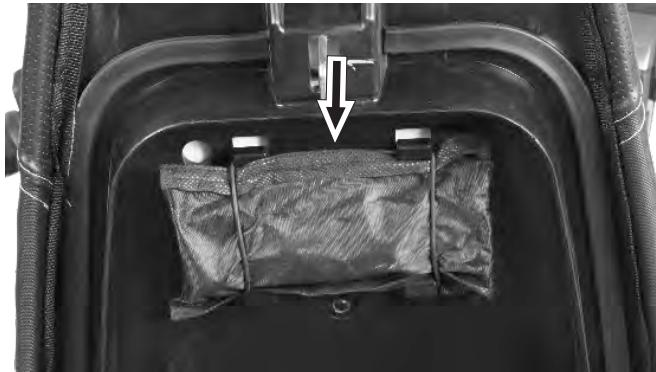
*Always release the side stand to its full up position before moving the vehicle.*

### 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. 14, 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



\* Accessory will be charged extra

## KNOW YOUR Scooty Zest 110



### 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. 14, to access the utility box. A separate cover (A) is provided inside the utility box. Remove this cover to access the carburettor for servicing purpose.



#### Caution

*Utility box can be used to carry a load of 10 kg 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.*

## KNOW YOUR Scooty Zest 110

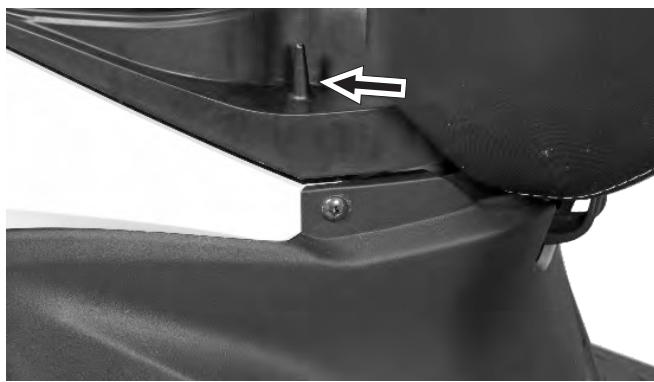


### Caution

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.**

### 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. 14 to access the helmet hook. Hook the helmet strap in the helmet hook and close the seat.



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### 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.

## KNOW YOUR Scooty Zest 110



### SMART PHONE CHARGERS

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

#### DO's

1. Ensure that no water enters into the unit, by closing the USB flap properly.
2. Use only mobile phone company's authorized USB cable for mobile charging.
3. The chassis number of the vehicle can be accessed by taking the smart phone charger unit from this mounting. **Ensure the smart phone charger unit is refitted 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 one mobile phone at a given time.
3. Do not try to force the USB connector in, check if it is inserted in the appropriate direction, to prevent damage.
4. Do not charge your mobile when engine is off.
5. Do not use other device, this port is for charging mobile phones only.

#### Note

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

**RIDING YOUR Scooty Zest 110****PRE RIDE INSPECTION**

Check the following items before riding.

<b>ITEM</b>	<b>WHAT TO CHECK FOR</b>
Engine oil	Availability of oil upto the level (page no. 32)
Transmission oil	Availability of oil upto the level (page no. 33)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no. 36) Adequate tread depth No cracks or cuts.
Battery	Proper working of electric starter, horn, fuel gauge, brake lamp and turn signal lamps. Electrolyte level (page no. 29)
Lighting	Proper working of head lamp high / low beam, high beam indicator, position lamps, speedo 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 and rear brake lever play (page no. 34)
Wheels	Free rotation

## STARTING THE ENGINE

Ensure availability of fuel in the fuel tank. Insert the control key into the ignition cum steering lock and turn it to the 'ON' position. Apply any one of the brake and press the electric starter switch to start electrically or kick start the engine.

### When the engine is cold

Start the vehicle using electric starter / kickstarter. Let the engine to idle for a few minutes in idling speed.

## 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.

## STOPPING AND PARKING

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



### Warning

*Do not run the engine in indoors where little or no ventilation available. Exhaust gas is extremely poisonous. Do not raise the throttle rapidly so the vehicle will move forward suddenly and lead to loss of control. Reduce speed to a safe limit before turning / cornering. It is not advisable to apply brakes while turning/cornering.*



### Caution

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



### Note

*Your vehicle is equipped with quick engine warm-up technology that helps you for better start and save fuel. Your vehicle's engine would operate at higher rpm for quick warm-up of the engine.*

## RIDING YOUR Scooty Zest 110



### FUEL RECOMMENDATION

Use unleaded petrol only.

The petrol should be 85 to 95 octane by research method. Use recommended fuel additives for longer life of engine components and lower maintenance. Petrol mixed with ethanol will have impact on engine components. Contact your TVS Motor Company Authorised Main Dealer / Authorised Dealer for usage.

#### Caution

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

#### Note

*Use fuel additives in petrol as recommended by the respective manufacturer for low carbon deposition.*

### CHECKS AND TIPS FOR IMPROVING FUEL ECONOMY

#### Regular checks

Carry out the periodic maintenance checks as specified in this manual (pages no. 26 and 27).

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, carburettor 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. 36). 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.

## MAINTENANCE



### MAINTENANCE SCHEDULE

The maintenance schedule indicates the intervals between periodic services. At the end of each interval, be sure to inspect, check, replace, adjust, lubricate and service as instructed. If the maintenance is not done periodically, it will result in rapid wear and severe damage to the vehicle. If the vehicle is used under high stress conditions such as continuous full throttle operation or if used / operated in dusty climate, certain jobs should be performed more often to ensure reliability of the vehicle. Cylinder head, steering components, suspension 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 Scooty Zest 110, it is recommended that you use only the **TVS Motor Company Genuine** parts.



#### Caution

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

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



## MAINTENANCE

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

Item Period from the date of sale	In free service			After free service		Remarks
	Service km 1st 500-750 1 month	2nd 2500-3000 3 months	3rd 5000-6000 6 months	Every 3000 km	Every 6000 km	
Engine oil	R	I & T	R	I & T	R	
Oil filter (strainer)	C	-	C	-	C	
Transmission oil	R	I & T	R	I & T	R	
Spark plug	C & A	-	-	-	-	Replace every 12000 km
Air cleaner element	-	-	-	-	-	Replace every 12000 km
Air cleaner oil collection tubes	-	I & DR	I & DR	I & DR	-	Drain oil if necessary
SAI filter element	-	-	-	-	-	Replace every 12000 km
CVT filter element <sup>1</sup>	-	-	I & C	-	I & C	Replace every 12000 km
Tappet clearance	I & A	-	I & A	-	I & A	Adjust if necessary
Carburettor assembly	C & A	-	-	-	-	C & A every 12000 km after first service
Carburettor breather hose	I	I	I	I	-	Inspect for routing and blockage
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	I	I	I	I	-	Replace every 3 years
Front and rear suspension	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	-	
Throttle grip	-	-	L	-	L	Lubricate using grease
Steering smooth operation / play	I & A	I & A	I & A	I & A	-	C & L with fresh grease every 12000 km

## MAINTENANCE



Item Period from the date of sale	In free service			After free service		Remarks
	Service km 500- 750 1 month	2nd 2500-3000 3 months	3rd 5000-6000 6 months	Every 3000 km	Every 6000 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	-	
All bulbs, horn and switches	I	I	I	I	-	Inspect for proper functioning
Head lamp beam	I & A	I & A	I & A	I & A	-	
Battery electrolyte level	I & T	I & T	I & T	I & T	-	
Specific gravity and voltage <sup>4</sup>	I	I	I	I	-	
Brake effectiveness / play	I & A	I & A	I & A	I & A	-	
Brake cam	-	-	C & L	-	C & L	Lubricate using grease
Wheel freeness	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	-	
Engine idling RPM	I & S	I & S	I & S	I & S	-	
Idling CO% <sup>5</sup>	I & S	-	-	-	-	
Centre / side stand pivot	L	L	L	L	-	Lubricate using TRU4 oil
Kickstarter pedal pivot	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

<sup>1</sup> Inspect for damage    <sup>2</sup> Clean the cover with air. Lubricate kickstarter with grease

<sup>3</sup> Inspect for proper operation and adjust play. Lubricate ends using grease    <sup>4</sup> Recharge if necessary

<sup>5</sup> Idling CO% should be set with the help of exhaust gas analyser and tachometer only

## MAINTENANCE



### RECOMMENDED LUBRICANTS

Application	Qty	Manufacturer	Brand
Engine oil	750 ml (during regular service) 800 ml (incase of disassembly)	TVS Motor Company	TVS TRU4 PREMIUM oil (SAE 10W30 SL-JASO MA2)
Transmission oil	100 ml (during regular service) 120 ml (incase of disassembly)	-do-	-do-
Front fork oil	53 ± 1 ml / leg	IOC	Gabriel Premium front fork oil
Grease	—	Bharat petroleum IOC Bechem Kluber Lubrication	MP Grease no. 3 Servo Gem no. 3 Bechem premium Kluber Centoplex 2
Fuel additives	As recommended		IFTEX

## MAINTENANCE

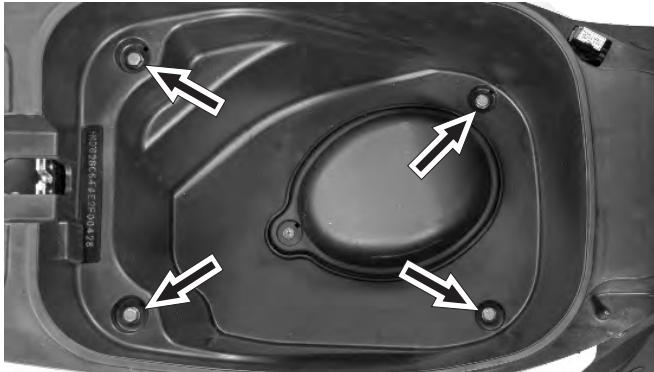
### SELF-MAINTENANCE PROCEDURES

#### BATTERY

Electrolyte level and the condition of battery must be inspected periodically to avoid failure of 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.

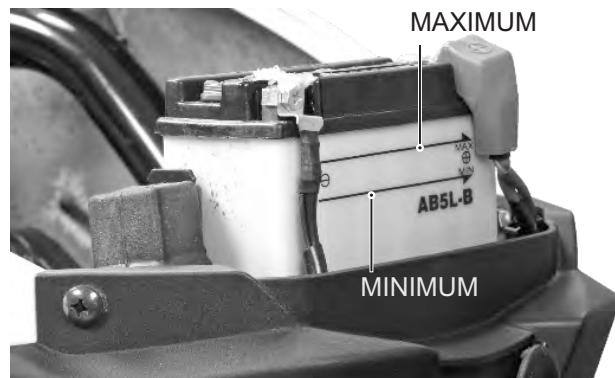
1. Open the seat by unlocking the seat lock (refer page no. 14).
2. Remove the mounting bolts of utility box using suitable spanner.



3. Take out the utility box along with the seat (please note that the seat comes along with utility box since it is mounted on the utility box).

Now, inspect the electrolyte level of the battery. The electrolyte must be between maximum and minimum level. If the electrolyte level is below minimum level, add only distilled water upto the maximum level by removing the filler caps.

Reinstall the filler caps and clean the battery throughly, apply petroleum jelly to the terminals of battery to protect it from corrosion.



## MAINTENANCE

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

### Caution

*Once the battery is charged initially, never add diluted sulphuric acid. Use only distilled water for topping up. Never add tap water.*

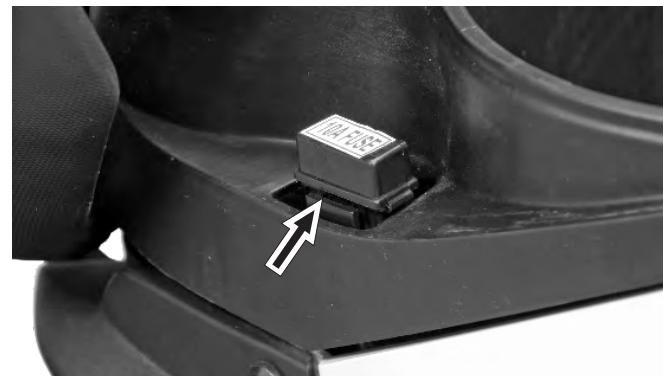
*Never check the battery charge by shorting terminals. Always connect the positive terminals first and the negative to avoid sparking. Do not obstruct, bend or change the routing of the battery air vent tube. Make sure, the vent tube is firmly attached to the battery and the other end is open and clear.*

### FUSE

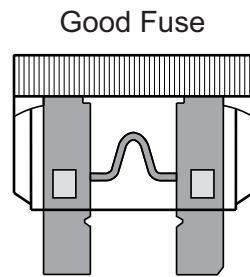
Non-working of electrical systems may be due to safety fuse failure. Short circuit or overload in the electrical system are the main causes for the fuse failure.

A fuse case having 10 Amps fuse (blade type) is fitted on the front left side of the utility box below seat. Follow the procedure for the removal, inspection and replacement of the fuse.

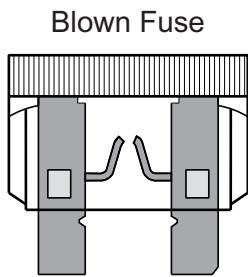
1. Open the seat as explained in page no. 14.
2. Take out the fuse case from the utility box.
3. Open the fuse case and pull out the blown fuse.
4. Fix a new fuse (extra fuse is provided in the wiring harness itself in a pouch).
5. Turn the ignition switch 'ON' and check for the proper working of battery operated electrical systems.



## MAINTENANCE



Good Fuse



Blown Fuse

Incase the fuse blows off again, consult the nearest TVS Motor Company Authorised Main Dealer / Authorised Dealer.

### Caution

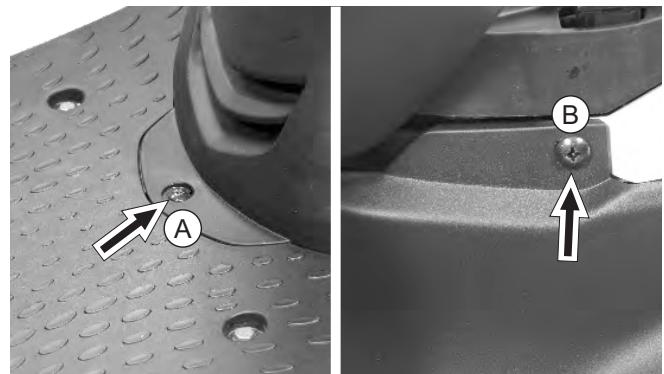
*Do not use vehicle by **shorting the wires without fuse**. This may result in overheating of electrical items/wiring and may result in fire.*

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

## SPARK PLUG

To access the spark plug, cover front need to be removed. Follow the procedure given below for the removal of cover front and spark plug.

1. Remove the bottom mounting screw (A).
2. Open the seat by unlocking the seat lock (page no. 14) 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. Clean the dust and mud around the spark plug mounting to avoid falling inside the cylinder.
5. Using spark plug spanner of tool kit, remove the spark plug.

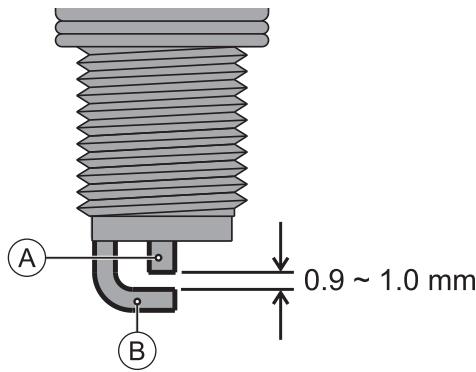


**MAINTENANCE**

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.

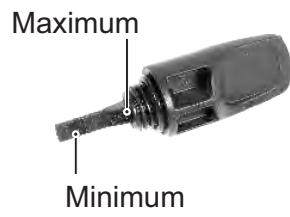
After cleaning and adjusting the gap, reinstall the spark plug and tighten by hand to avoid cross threading. Finally tighten using spark plug spanner.



**Caution**

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

*Cover the spark plug hole with cloth when the plug is removed to prevent dust / water entry. It is advisable to tighten the new spark plug by hand till the end and then loosen and again re-tight the spark plug by 1/8 of rotation after sealing by using only the hand tool.*

**ENGINE OIL LEVEL**

## MAINTENANCE

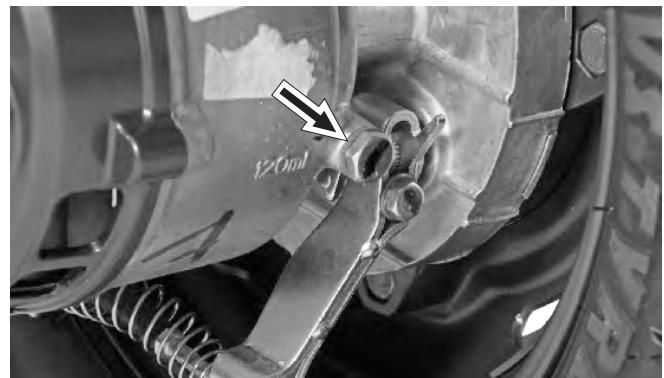
Check the engine oil level periodically.

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 PREMIUM 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.

## 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.

### Caution

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

*Check the oil level as per the schedule to avoid costly damage. Do not fill excess oil may cause oil leak. Always use TVS TRU4 PREMIUM (SAE 10W30 SL-JASO MA2) oil only.*

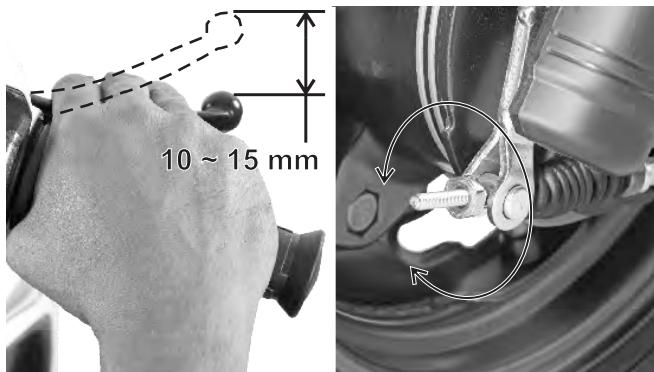
## MAINTENANCE



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 PREMIUM oil till the oil 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 fibre washer.

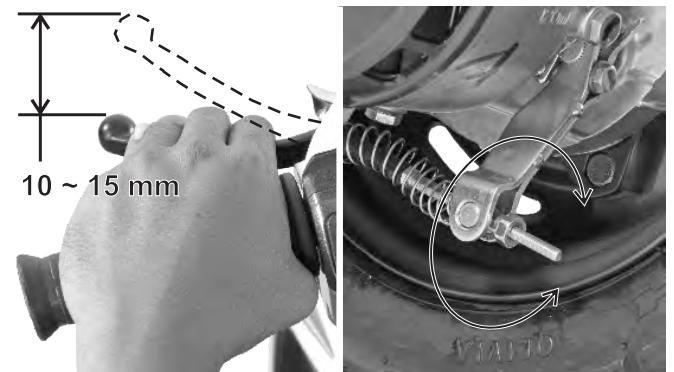
## BRAKES

### Front brake



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

### Rear brake



## MAINTENANCE



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.
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 both the brake play periodically. However the brake play needs to be adjusted more frequently depending upon the usage.*

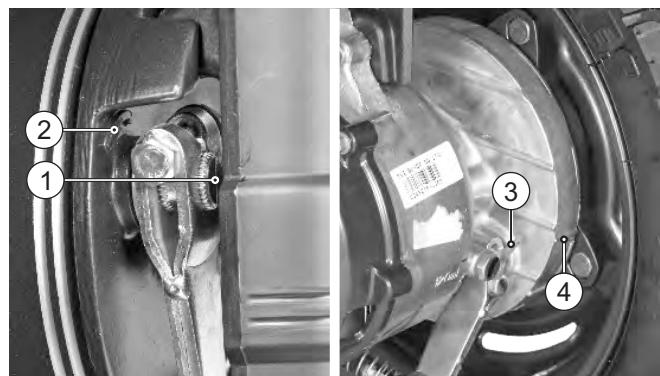
*Brakes are items of personal safety and should always be maintained in proper condition.*

### Brake shoe wear indicator

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

Similarly, when brake is applied, wear limit indication pointer (3) on the rear brake cam lever should be within the wear limit indicator (4) on the crankcase LH.

In case the wear limit index mark (1) / wear limit indication pointer (3) is going beyond wear limit indicator (2) and (4), index the lever to next slot with the help of Dealers to extend shoe life.



## MAINTENANCE



### 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	1.69 kg/cm <sup>2</sup> (24 PSI)	1.69 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.

## MAINTENANCE



### 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.***

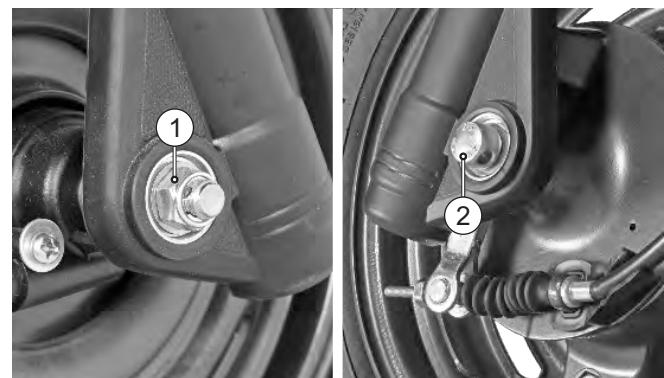


### Caution

*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.*

### 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.

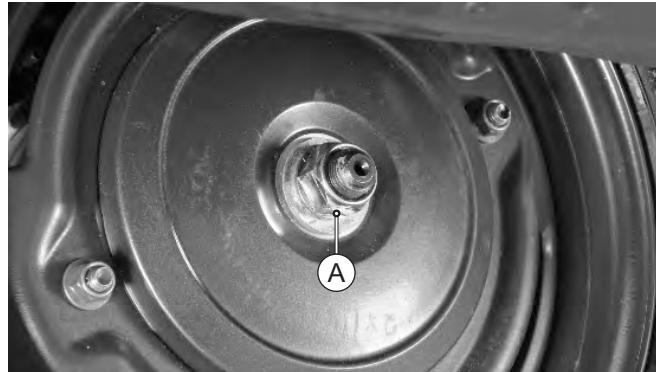


## MAINTENANCE



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.

### 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.

#### Warning

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

## MAINTENANCE

3. Empty the fuel tank. Drain the petrol from carburettor.
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. During storage, the battery must be recharged at recommended charger if stored more than a month.*



## TAKING THE VEHICLE OUT OF STORAGE FOR REGULAR USE

1. Take the vehicle out of garage and clean it thoroughly.
2. Remount the battery after bench charging if required.
3. Fill the engine oil (TVS TRU4 PREMIUM oil) and check the oil level using gauge oil level.
4. Fill the transmission oil (TVS TRU4 PREMIUM 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.

### Caution

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

**MAINTENANCE**

8. Check and correct the points given in page no. 21.
9. Turn the ignition switch to 'ON' position. 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.
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. Correct idling speed.
11. Lubrication of all items mentioned in the periodic maintenance schedule.
12. Any other job as necessary.
13. Have your vehicle checked at any TVS Motor Company Authorised Main Dealer or Authorised Dealer.

**Caution**

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

## WARRANTY AND SERVICES



### **TVS Motor Company Limited ('the Company') gives this warranty with respect to the Scooty Zest 110 manufactured by the Company.**

The Company has taken every care to maintain quality in the manufacture of the Scooty Zest 110, subject to other terms of warranty:

During 24 months from the date of purchase or during the first 24,000 km of run for the vehicle in the hands of original retail purchaser, whichever is earlier, all parts of the vehicle which prove to the satisfaction of the Company to have a manufacturing defect will be repaired or replaced free of cost.

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

#### **Limitations of Warranty:**

1. This warranty shall not apply to:

- Normal maintenance operations such as engine tune-up, decarbonising, fuel system cleaning, oil changes, head light focusing, fastener retightening, adjustment of carburettor and brakes as well as other normal adjustments.
- Insignificant factors which do not affect the function of the vehicle, including without limitation, sound, vibration and fluid seep.
- Replacement of normal service items or wear and tear items, including without limitation, bulbs, electrical wiring, all filters, mobile charger, spark plug, drive belt, clutch and brake linings, fasteners, shims, washers, oil seals, gaskets, rubber, plastic and rexine components (including hoses / pipes) etc..

## **WARRANTY AND SERVICES**



- Proprietary parts such as tyres, tubes and battery etc.,
- Any natural wear and tear, including without limitation, aging.
- 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 manual.
- Parts which are used in conjunction with parts not made or recommended by the Company.
- 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.
- Parts of the vehicle getting affected due to atmospheric effect/environmental factors.
- Vehicles, on which engine number or chassis number is deleted, defaced or altered.

- **Vehicles on which any warranty (periodic) service is not availed when it falls due.**
  - Vehicles sold or transferred by original retail purchaser.
  - Vehicles used for racing or any competition or used otherwise than for ordinary personal transportation. Vehicles attached with side cars etc.
  - Vehicles which have been taken out of India.
2. Warranty claims on proprietary items such as tyres, tubes and battery 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.

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

**Incase of EXIDE battery, call :- 1800 103 5454**

**Incase of AMCO battery, call :- 1800 425 0096**

## **WARRANTY AND SERVICES**

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 Dealer / Authorised Dealer.
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 despatched for sale.
7. Any claim under this warranty will lie only when the customer:
  - (I) 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.

- (ii) produces to such Authorised Main Dealer / Authorised Dealer the owner's manual for the concerned vehicle for verification of relevant details.
8. This is the only warranty given by the Company for the Scooty Zest 110. No employee, Dealer or other person is authorised to extend or enlarge this warranty.

### **Warning**

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

## **WARRANTY AND SERVICES**



Customer's Name and address	..... ..... .....
Frame number	.....
Engine number	.....
Key number	.....
Service coupon no.	.....
Colour	.....
Date of sale	.....
Km.	.....
Registration number	.....
Selling dealer's code, name, address and phone number:	..... .....

## **SERVICE INFORMATION**

There are nine services for Scooty Zest 110 during warranty period. Of these, first three services are free services for which labour charges are free. In addition to these three free services, we have a scheme of six pay services. Coupons for these free services are attached with this owner's manual. For keeping the maintenance track of your vehicle, a pay service record sheet is also attached. Please have the record sheet filled by the Dealer who is carrying out the maintenance service.

Before you avail your first free service please enter the particulars of your vehicle on the left side of this page. This will be useful for any reference.

For availing any of the nine warranty services, please take your vehicle and your owner's manual to any of our Authorised Main Dealer or any of our Authorised Dealer. After effecting the service the Authorised Main Dealer or the Authorised Dealer will take out the detachable portion of the relevant service coupon from your owner's manual for their records and will obtain your acknowledgment on the same for having the service done to your satisfaction. For your record, the Authorised Main Dealer or the Authorised Dealer will affix their stamp on the stub of the relevant service coupon or the last column of the record sheet whenever they carry out any service.

**WARRANTY AND SERVICES**

Periodic maintenance always helps good performance of an automobile and our services are planned to keep your Scooty Zest 110 performing good. **Please note that carrying out the services for your vehicle at scheduled intervals 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 vehicle and getting serviced.

**Service Department****TVS MOTOR COMPANY LIMITED****P.O. Box No. 4, Harita, Hosur - 635 109,****TAMILNADU, INDIA.****Toll free no:- 18004252077**

## WARRANTY AND SERVICES



### PART (B) DELIVERY CERTIFICATE

(To be given by the customer to **TVS Motor Company** Authorised Dealer at the time of taking possession of new vehicle)

Certified that I have taken possession of the Scooty Zest 110 bearing engine no. and frame no. as mentioned along side from M/s.....  
.....to day in good condition.

I have understood operations, controls and general maintenance instructions including wheel removal and engine oil specifications. The terms of warranty have been explained to me and I agree to abide by the same.

I have also received the following items along with my Scooty Zest 110 without extra charge.

- Tool kit
- Mirror (2 nos)
- Owners manual
- Set of two keys

The location of the tool kit in the vehicle has been shown to me.

#### TO BE FILLED IN BY THE MAIN DEALER / AD

Engine No. :

Frame No. :

Dealer code :

Dealer stamp :

Date of delivery :

Colour :

Mode of purchase by customer

- Show room - cash sales
- Show room - hire purchase sales
- Institutional sales

Dealer to get the Customer information coupon filled by the customer and hand it over to Market Research, TVS Motor Company Limited, Hosur.

Dealer's signature :

Customer signature :

Date :

**WARRANTY AND SERVICES****भाग (ब) डिलिवरी प्रमाण पत्र**

(उपभोक्ता के द्वारा Scooty Zest 110 अधिग्रहण करने के समय टी.वी.एस डीलर को प्रेषित किया जाये)

प्रमाणित कि मैंने Scooty Zest 110 का अधिग्रहण उचित अवस्था में मेसर्स

.....  
.....

से आज कर लिया है, जिसका फ्रेम नम्बर और इंजन नम्बर साथ में संलग्न है।

मैंने इसके सारे ऑपरेशन, कंटो-ल और सामान्य-रख-रखाव के अंतर्गत पिछला पहिया निकालना, इंजन आयल जॉचना इत्यादि का ज्ञान प्राप्त कर लिया है। वॉर्टी के सभी नियम मुझे अवगत हैं, और मैं उनका पालन करने के लिये सहमत हूँ।

Scooty Zest 110 के साथ बिना किसी अतिरिक्त कीमत के निम्नलिखित वस्तुएँ प्राप्त हुईं।

- टूल किट
- मिरर (2 नं.)
- ओनर्स मैनुअल
- एक जोड़ी चाबी

टूल किट का स्थान भी अवगत किया गया है।

डीलर के द्वारा भरा जाये

फ्रेम नं० :

इंजन नं० :

कोड़ :

डीलर सील :

डिलिवरी की तिथि :

रंग :

वाहन खरीदने का मुख्य प्रारूप.

- शोरूम - नगद
- शोरूम - क्रेड सुविधा से।
- इनरिट - युशनल सेल्स

डीलर इस कूपन को उपभोक्ता से भरवा कर टी.वी.एस. सर्विस इंजिनियर को दें।

डीलर हस्ताक्षर :

उपभोक्ता हस्ताक्षर :

तिथि :



## Extended Assurance. Guaranteed Smiles.

- ★ Peace of mind for 5 years
- ★ Trouble free ownership experience
- ★ Valid at all India TVSM Authorized network
- ★ TVSM Genuine Parts Guaranteed
- ★ Higher Resale Value of Vehicle.
- ★ Optional feature, can be availed at nominal charges.

**Contact your nearest Dealership for details\***

\*Terms and conditions apply

**EXPRESS SERVICE****Drive In.**

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

**Drive Out.**

**Get your vehicle serviced in 1 hour at no additional cost. Contact your nearest Dealership for details.\***

\*Facility available at selected Dealerships only. Terms and conditions apply

**EXPERT ON WHEELS**

**TVS** 



## **Busy Life? Easy Servicing!**

**Now, service your bike anywhere, anytime.**

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

**Contact your nearest Dealership for details.\***

\*Facility available at selected Dealership only. Terms and conditions apply

**PICKUP AND DROP**

# **Busy Life? Easy Servicing!**

**Now, Avail Pickup & Drop of your vehicle for service.**

- ★ Vehicle picked up & delivered from/to your office or residence at prefixed appointed time.
- ★ Offered at nominal convenience charges.

**Contact your nearest Dealership for details.\***

\*Facility available at selected Dealership only. Terms and conditions apply

**TECHNICAL SPECIFICATIONS**

MANUFACTURER : TVS MOTOR COMPANY LIMITED

P.B. No 1, Bythahalli, Kadakola post, Mysore - 571 311, India.

**ENGINE**

Type	: Single cylinder, 4 stroke, air cooled, spark ignition engine
Cylinder bore	: 53.5 mm
Stroke	: 48.8 mm
Piston displacement	: 109.7 cc
Compression ratio	: 9.5:1
Carburettor	: UCAL VM 16 SH with Auto Choke
Air filter	: Viscous paper filter
Lubrication system	: Forced wet sump
Maximum power in kW	: 5.88 @ 7500 rpm
Maximum torque in Nm	: 8.8 @ 5500 rpm
Maximum speed	: Around 80 km/hr
Engine idling rpm*	: 1600 + 100 rpm
Starting system	: Electric / Kick

**TRANSMISSION**

Clutch	: Dry-Centrifugal clutch
Primary transmission	: CVT (Continuous Variomatic Transmission)
Primary reduction	: 2.38 to 0.82
Final reduction	: 9.09

**CHASSIS****Dimensions and weight**

Overall length	: 1770 mm
Overall width	: 660 mm
Overall height	: 1139 mm
Ground clearance	: 135 mm (unladen)
Wheel base	: 1250 mm
Steering angle	: 90°
Caster angle	: 26°
Kerb weight**	: 98.5 kg (with tool kit & 90% of fuel)
Pay load	: 130 kg
Maximum laden weight	: 227 kg

\* Under warm condition

\*\* Kerb weight with all accessories

## TECHNICAL SPECIFICATIONS

**CHASSIS****Dimensions and weight**

Frame	: Duplex tubular frame
Front suspension	: Telescopic hydraulic type
Rear suspension	: Toggle link with hydraulic damper
Trail length	: 97 mm

**TYRE**

Front tyre	: 90/100-10 (Tubeless)
Rear tyre	: 90/90-10 (Tubeless)
Tyre pressure (cold condition)	
Front	: 1.69 kg/cm <sup>2</sup> (24 PSI)
Rear - Solo	: 2.00 kg/cm <sup>2</sup> (29 PSI)
Rear - Pillion	: 2.53 kg/cm <sup>2</sup> (36 PSI)

**BRAKES**

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

**ELECTRICAL**

Ignition system	: IDI ignition
Spark plug	: BOSCH UR4KCW

**ELECTRICAL**

Spark plug gap	: 0.9 ~ 1.0 mm
Battery	: 12V, 5Ah Lead Acid type
Generator	: Fly wheel magneto, 12V, 80W
Head lamp	: 12V, 35/35W
Tail / brake lamp	: 12V, LED
Turn signal lamps	: 12V, 10W x 4
Position lamp	: 12V, 3W x 2
Number plate lamp	: 12V, 4W x 1
Speedometer lamp	: 12V, 1.7W x 2
Turn signal indicator lamp	: 12V, 1.7W x 2
High beam indicator lamp	: 12V, 1.7W x 1
Economy and power mode indicator lamp	: 12V, LED
Horn	: 12V, DC
Fuse	: 12V, 10A x 1 (Blade type)

**Caution**

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

**TECHNICAL SPECIFICATIONS****CAPACITIES**

Fuel tank capacity	: 4.8 litres*
Fuel	: Unleaded Petrol
Engine oil and capacity	: TVS TRU4 PREMIUM oil (SAE 10W30 SL-JASO MA2) 750 ml during regular service and 800 ml incase of disassembly
Transmission oil and capacity	: TVS TRU4 PREMIUM oil (SAE 10W30 SL-JASO MA2) 100 ml during regular service and 120 ml incase of disassembly.
Front fork oil and capacity	: IOC, Gabriel Premium front fork oil, $53 \pm 1$ ml per leg

**Note**

*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.

## **GENERAL INFORMATION**



Dear Customer,

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

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



Regd. Office: Oriental House, A-25/27, Asaf Ali Road,  
**New Delhi 110002**  
Website : [www.orientalinsurance.nic.in](http://www.orientalinsurance.nic.in)

