

Dear friend,

Thank you for choosing the TVS Sport, India's strongest and most reliable motorcycle.

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

TVS Sport are designed to deliver superior mileage and long-lasting performance. It also comes with refreshing looks.

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

To ensure reliable performance, we urge you to get your TVS Sport serviced only at TVS Motor Company Authorised Distributor or Dealer / Authorised Service Centers at specified regular intervals.

Happy Riding!

**TVS MOTOR COMPANY LIMITED**

This manual should be considered as a permanent part of the motorcycle and should remain with the motorcycle 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.

 **Note**

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

*Pictures shown in this manual are of TVS Sport Electric Start with Alloy Wheel model*

***Your motorcycle is provided with always glowing head lamp. The head lamp glows automatically once the engine is started.***

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

The reliability and performance of your motorcycle 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. 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 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 re-tightened. Engine cum transmission oil to be replaced. Timely performance of the first service will ensure optimum service life and performance from the engine.



### Caution

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

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

### SAFE RIDING RECOMMENDATIONS

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

#### Familiarise yourself with new TVS Sport

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

#### Riding apparel

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

#### Know your limits

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



#### Warning

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

### Posture

Proper vehicle riding starts with proper posture.

1. Sit erect on the seat at the position which you feel most comfortable.
2. Keep your arms relaxed to give extra cushion for body on uneven road surfaces.
3. Keep right arm and foot close to the brake lever and pedal, so as to enable fast action during panic braking.
4. Look widely instead of gazing at one point.
5. Alter your sitting location/posture slightly at intervals during long rides. This will reduce fatigue.

### Cornering

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

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



### Warning

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

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

*Do not downshift the gear in the midst of cornering. Slow down to a safe speed before negotiating a corner. If this is the first time 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.*

## SAFE RIDING TIPS



## Braking

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

1. Close / release the throttle.
2. Hold the vehicle upright as you apply the brake.
3. Progressive application of brake is safer.
4. Never depress the clutch lever while braking at higher speeds.
5. **Apply both the brakes.**
6. Riding down hills, while cornering and wet roads, close throttle and down shift the gear to take advantage of gearbox and engine which acts as an additional brake. This will avoid the loss of control over the vehicle due to over speed.

## Causes for poor braking

1. If the brake shoes / pads or drum / disc are worn out or if there is water or oil on them, sufficient friction does not develop and brakes do not work well.

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 motorcycle.

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

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

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

### EMISSION CONTROL

#### Exhaust emission control system

All the TVS vehicles are tested in the factory for optimum fuel efficiency and 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 Distributor or Dealer / Authorised Service Centers.

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

**Crankcase emission control system**

The engine of TVS Sport 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 carburettor.

**Evaporative Emission Control System**

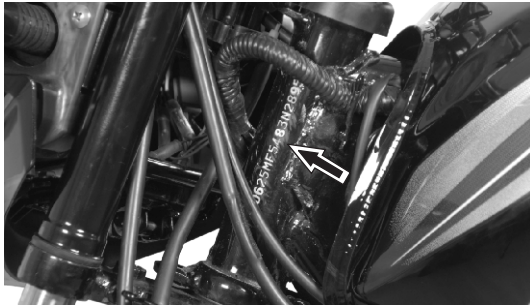
The TVS Sport is equipped with an evaporative emission control system which consists of a canister and associated piping. This system prevents the escape of fuel vapors from the fuel tank.

**Warning**

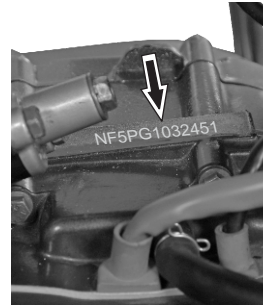
*If there is any abnormal jerk, startability issue are felt in the vehicle or noise due to sudden escape of gas during opening of fuel tank cap, immediately report to the TVS Motor Company Authorised Distributor or Dealer / Authorised Service Centers.*

VEHICLE IDENTIFICATION NUMBER

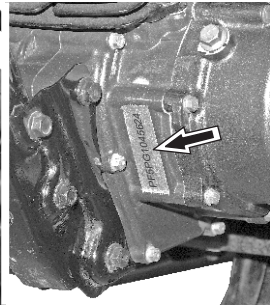
Serial numbers of both frame and engine are required for vehicle identification. They are also required to assist your Dealer for operating parts or referring to special information.



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



In KS model, the engine serial number is stamped on the top surface of left side crankcase. In ES model the engine serial number is stamped on the front surface of left side crankcase.



Frame number 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Engine number 

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Control key number 

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Please fill the above boxes now for future reference

LOCATION OF PARTS - VEHICLE LEFT SIDE



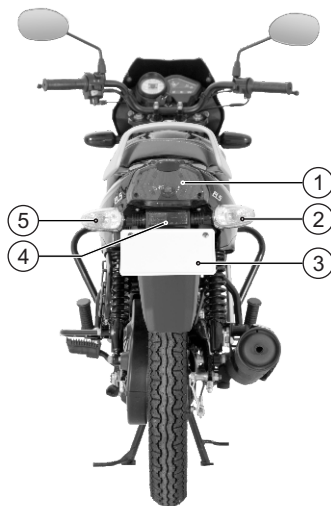
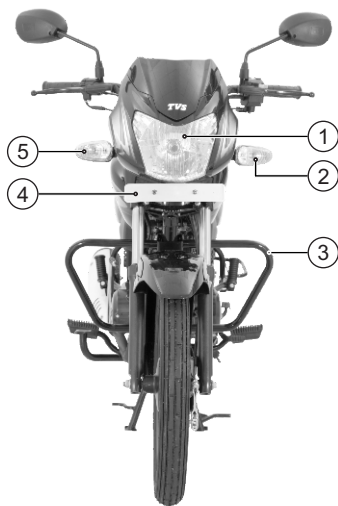
1. Front brake adjuster
2. Front wheel axle
3. Speedo cable
4. Fuel cock
5. Gear shift lever
6. Rider foot rest L
7. Centre stand
8. Side stand
9. Chain inspection window
10. Pillion foot rest L
11. Rear shock absorber L
12. Rear wheel axle
13. Lady foot rest
14. Saree guard
15. Seat lock

LOCATION OF PARTS - VEHICLE RIGHT SIDE



1. Front wheel axle nut
2. Spark plug
3. Gauge oil level
4. Rear brake pedal
5. Kick starter lever
6. Rider foot rest R
7. Pillion foot rest R
8. Rear shock absorber R
9. Muffler assembly
10. Rear brake adjuster
11. Pillion handle

LOCATION OF PARTS - VEHICLE FRONT AND REAR



**FRONT**

1. Turn signal lamp front L
2. Head lamp assembly
3. Crash guard
4. License plate front
5. Turn signal lamp front R

**REAR**

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

### CONTROL KEY

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

### IGNITION CUM STEERING LOCK

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

#### 1. 'OFF' position

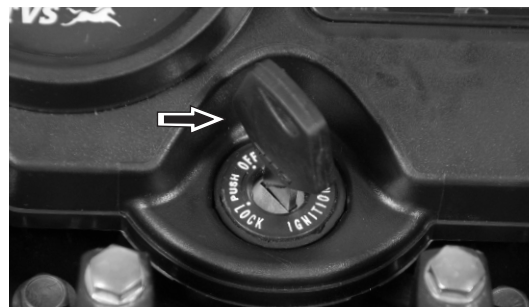
All the electrical circuits are turned 'OFF' in this position. Engine will not start. Key can be taken out.

#### 2. 'ON' position

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

#### 3. 'LOCK' position

TVS Sport 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.



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

#### Warning

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

#### Caution

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

## SPEEDOMETER ASSEMBLY

### 1. Speedometer

Indicates the 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. Fuel gauge

Fuel gauge indicates the approximate quantity of fuel available in the fuel tank. Once the fuel indication is in red band (marked in the dial) re-fill the fuel as soon as possible.

### 4. Economy and power mode indicators

Economy 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.

### 5. Turn signal indicator lamp

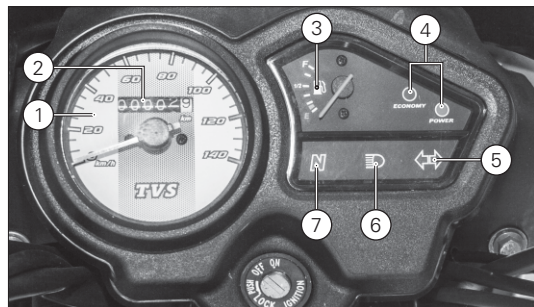
Flashes when the 'left' or 'right' side turn signal indication is activated.

### 6. High beam indicator lamp

Glows when the head lamp high beam is activated.

### 7. Neutral indicator lamp (N)

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



## Note

*Always ride in 'economy mode' for better fuel efficiency. If the vehicle is kept idle for more than 20 seconds, the power mode indicator blinks and informs you that the fuel is getting wasted and the engine needs to be switched 'OFF' to save fuel.*



### HANDLE BAR LEFT SIDE

#### 1. Beam control switch

The head lamp glows automatically along with the speedometer back illumination and tail lamp once the engine is started. Only the head beam (high/low) can be controlled by pressing the beam control switch.

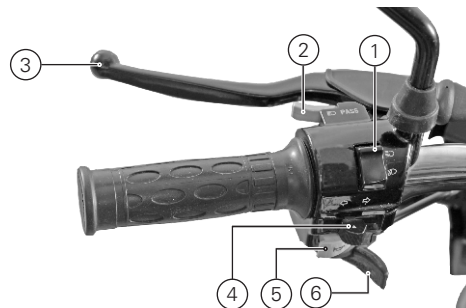
Press the switch towards '☰D' to turn-on the head lamp high beam or press the switch towards '☷D' to turn-on the head lamp low beam.

#### 2. Pass by switch

Press the switch to flash the head lamp high beam. It is used to give signal to the vehicles coming from opposite direction while overtaking other vehicles during day. If the switch is pressed while the head lamp glowing in high beam, there will be no change in the head lamp beam.

#### Note

*Once the engine is started the head lamp, speedometer back illumination and tail lamp glows automatically. Only head lamp beam (high/low) can be controlled using beam control switch.*



#### 3. Clutch lever

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

#### Warning

*Use appropriate head lamp beam 'high/low' as per the traffic and road conditions for your safety and to avoid inconvenience to other riders. It is strongly recommended to ride the vehicle in 'low beam' during day.*

### 4. 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 knob to turn 'OFF'.

### 5. Horn switch

Press the switch ' 📄 ' to operate the horn.

### 6. Choke lever

Pull the choke lever towards left to apply choke.

**During cold start, apply the choke and start the vehicle using electric starter or kicklever without opening / with less opening of throttle.**

Once the engine is started and running in stable RPM, release the choke and ride the vehicle.

### ⚠ 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 turns or lanes.*

\* Applicable only for electric start model

### 👉 Caution

*Always use choke for starting the cold engine. Never open the throttle fully when the choke is applied. It may lead to flooding of engine and difficulty in starting.*

## HANDLE BAR RIGHT SIDE

### 1. Electric start switch\*

When the transmission is in neutral, just press the electric starter switch ' ⚙ ' to start the engine electrically. Else, depress the clutch lever and press the starter switch to start.



 **Caution**

*For cold starts, avoid using electric starter. Use kickstarter. A typical example is early morning start. This would reduce load on the battery and prevents quick drain.*

**2. Throttle grip**

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

**3. 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.

**FUEL TANK\* CAP**

To open the fuel tank cap, move away the protection lid (A) from its position. Insert the key into the lock and turn it in clockwise. The tank cap ejects automatically. Take out the cap along with the key.

To close, press the cap back to its original position by keeping the front end (arrow marked) towards handle bar. Take out the key and close the production lid.



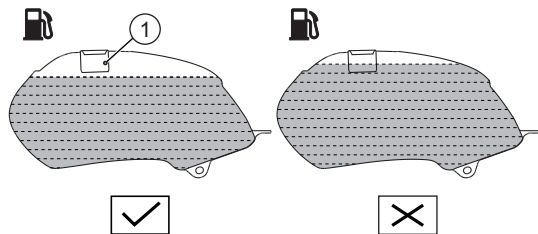
 **Warning**

*Avoid spilling of fuel on the hot engine. Never refill fuel near open flame. Do not smoke while refueling. Do not use cell phones while refueling.*

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

### EVAPORATIVE EMISSION CONTROL SYSTEM

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



 Caution

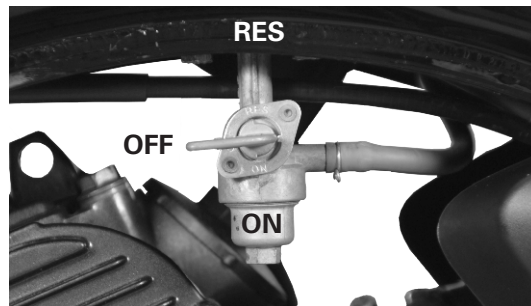
*Do not clean the vehicle by laying down on floor, to avoid fuel entry into EVAP system.*




 Caution

**Never fill fuel beyond the fuel tank inlet (1).** Filling above the inlet may result in improper breathing of fuel tank which leads to difficulty in starting as well as improper running of the vehicle. Whenever refueling the bike fill only the recommended quantity of fuel (10 liters including 2 liters reserve).

### FUEL COCK

Fuel cock has the following three positions:



-  ON: Fuel flows in this position when the fuel is above the reserve level in the tank.
-  RES: Switch over the fuel cock lever to this position when the fuel stops flowing in 'ON' position.
-  OFF: Fuel flow cuts off from the fuel tank to carburettor.

### Caution

*Leaving the fuel cock in 'ON' or 'RESERVE' position may cause the fuel tank to completely drain out, incase any malfunctioning of carburettor float system.*

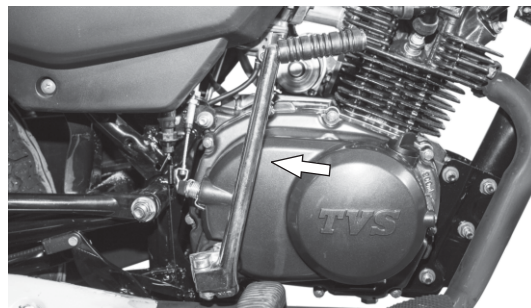
*Similarly, if the fuel cock is positioned between 'ON' and 'OFF' may drain off entire fuel while riding the vehicle.*

## KICKSTARTER LEVER

The kick starter lever is located on the right side of the vehicle.

To start the vehicle, keep the ignition in 'ON' condition and transmission in neutral. Keep your foot on the lever extension and kick from top and stroke to bottom with rapid motion.

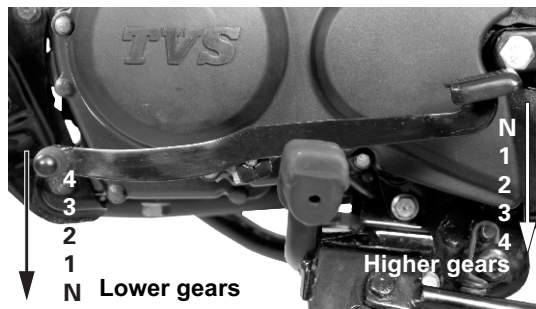
**Please note that the engine can be started with the kickstarter lever only when the vehicle is in neutral.**



### GEAR SHIFT LEVER

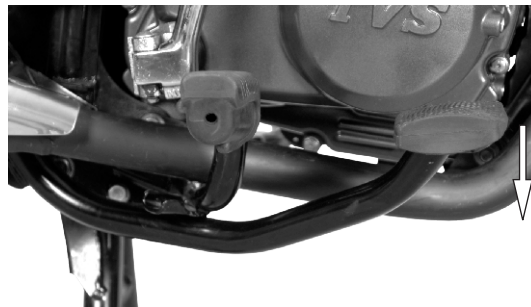
TVS Sport has a heel and toe gear shift lever. To shift the gear from neutral to higher, press the rear end of gear shift lever by heel once for each gear after applying the clutch.

Similarly, to down shift to lower gears, press the front end of the lever by toe once for each gear after applying the clutch.



### REAR BRAKE PEDAL

Rear brake pedal is located on the right side of the vehicle. Press the rear brake pedal with your right foot to apply the rear brake. The brake lamp glows on application of brake.



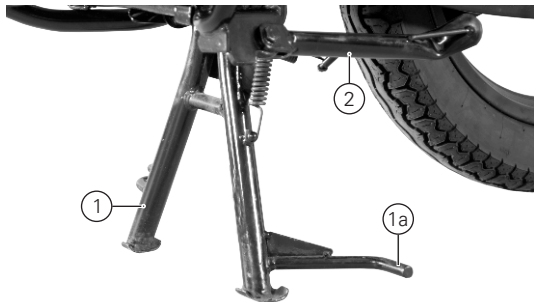
### Warning

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

### CENTRE STAND AND SIDE STAND

TVS Sport is equipped with a centre (1) and side stand (2).

To place the vehicle on centre stand, hold the handle bar left grip with left hand and pillion handle with right hand. Place your foot firmly on the centre stand extension (1a) and press with adequate effort. Ensure both the legs of centre stand are touching the ground before placing the vehicle on the stand. Side stand can be operated by sitting on the vehicle with your left foot by pushing it away from the vehicle till it stops.



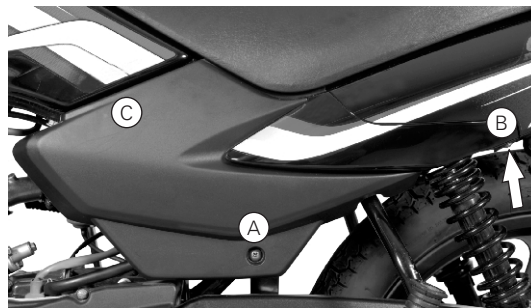
### Warning

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

### Caution

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

### COVER FRAME L



Open the cover frame L in the following manner to access the battery assembly.

1. Remove the mounting screws (A) & (B) from the front and rear mounting of the cover frame.
2. Gently pull out the front end (C) of the cover frame from fuel tank cushion.
3. Carefully dislocate the cover frame lugs from the cover seat tail and take out the cover frame.

Reassembly

1. Locate the lugs provided at the rear end of the cover frame to the location provided of the cover seat tail.
2. Gently press the lug provided in the front (C) of the cover frame into the fuel tank cushion.
3. Assemble the screws (A) & (B) and tighten.



### Caution

*While reassembling the cover frames, see that the rubber cushions provided for the cover lugs are in place.*

## SEAT LOCK

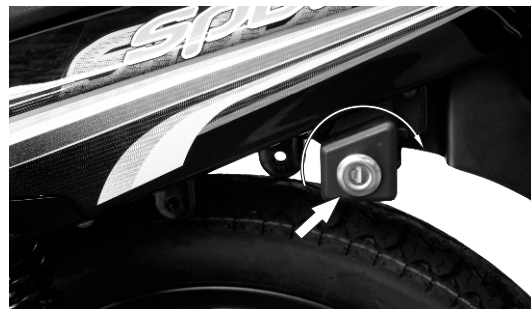
Seat lock is provided at the tail end of the vehicle to open the seat assembly and there by accessing the tool kit.

To open the seat assembly,

1. Insert the control key into the seat lock and rotate it in clockwise direction.
2. Take out the seat assembly by lifting it from the rear end and gently tapping it on the front end.

For reassembling,

1. Assemble the seat in the frame and push it forward.





2. Gently press at the rear end until you hear a click sound and take out the control key.

### TOOL KIT

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

Remove the seat assembly as explained earlier to access the tool kit.



The tool kit consists one number each of the following:

1. 14x17 mm open end spanner
2. 10x12 mm open end spanner
3. Combination screw driver bit
4. Screw driver handle
5. Tool bag



### Note

*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 Distributor or Dealer / Authorised Service Centers.*

## INSPECTION BEFORE RIDING

Check the following items before riding.

<b>ITEM</b>	<b>WHAT TO CHECK FOR</b>
Engine cum transmission oil	Availability of oil upto the level (page no. 34)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no. 39) Adequate tread depth / No cracks or cuts
Battery	Proper working of horn, brake lamp, turn signal lamps, neutral lamp, fuel gauge and electric starter*. Electrolyte level (page no. 31)
Lighting	Proper working of head lamp high beam / low beam, high beam indicator in speedometer, speedo lamps and tail lamp.
Steering	Smooth movement / No play or looseness
Throttle	Correct free play of cable / Smooth operation
Clutch	Correct free play of cable (page no.34) / Smooth and progressive action
Brakes	Correct lever and pedal play (page no. 36)
Wheels	Free rotation

\* Applicable for electric start model only

### STARTING THE ENGINE

Turn the fuel cock lever to the 'ON' or 'RESERVE' position based on the availability of fuel in the tank. Insert the control key into the ignition cum steering lock and turn it to the 'ON' position.

Keep the transmission in neutral and press the electric starter switch\* to start the engine electrically or kick start.

#### When the engine is cold

- ❑ Pull the choke lever and start the engine using kick starter with no opening / very less opening of throttle.
- ❑ Once the engine is started and running stable, release the choke lever and ride the vehicle (when the engine is warm/hot don't use choke).



#### Caution

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

\* Applicable for electric start model only



#### Warning

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

### SETTING THE VEHICLE IN MOTION

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

#### Using the transmission

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

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

### Riding on hills / gradients

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

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

### Stopping and parking

1. Close the throttle completely and apply both the brakes simultaneously.
2. Down shift the gears as the road speed decreases. Bring the engine to neutral position just before the vehicle stops.



### Warning

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

3. Turn the ignition 'OFF'.
4. Park the vehicle on a firm, flat surface.
5. Lock the steering and turn 'OFF' the fuel cock.

### FUEL RECOMMENDATION

Use BS IV / 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 Distributor or Dealer / Authorised Service Centers 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 (refer page no. 28 and 29).

Regular maintenance checks will save fuel and ensure trouble-free, enjoyable and safe riding besides keeping the 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 filter element restricts airflow and increases fuel consumption. **Inspect and clean the element periodically. Replace the element every 12000 kms.**

### Clutch

Increase in engine rpm during acceleration, without increase in road speed indicates the clutch slip.

A slipping clutch will cause high fuel consumption and engine over heat. If the condition persists even after adjusting the clutch lever play, immediately have the clutch checked by TVS Motor Company Authorised Distributor or Dealer / Authorised Service Centers.

### Engine cum transmission oil

Dirty or less engine cum transmission oil increases the friction between various parts of engine and reduces the engine life, thereby increases the fuel consumption. **Regularly inspect the engine cum transmission oil for correct level and top-up if necessary. Get it replaced at regular intervals as per the maintenance schedule.**

### Carburettor and air cleaner assembly

Check and ensure the fitment and tightness of carburettor, pipe intake and air cleaner. Any loose assembly leads to starting trouble and low fuel economy.



### Caution

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

### Fuel leak

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

### Tyres

Low tyre pressure has adverse effect on the vehicle. The **drag on the vehicle** increases resulting decreased fuel economy. Further more, handling may be adversely affected. Check the tyre pressure regularly and inflate to the recommended pressure (refer page no. 39). Never use tyres which are worn beyond the permissible limit.

### Chain slackness

Check and ensure drive chain slackness. Excess slackness leads to higher fuel consumption (refer page no. 40).

### Wheel freeness

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

### Fast starting from rest wastes fuel

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

### Fast acceleration wastes fuel

Fuel is wasted whenever you suddenly accelerate or apply brake.

### Avoid unnecessary idling

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

### Avoid frequent braking

Anticipate corners and slopes as well as the traffic conditions. **Unnecessary frequent braking will reduce the fuel economy.**

### Economy mode

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



### Note

*The on-road mileage of TVS Sport is dependent on several factors like Road condition, Quality of fuel, Riding speed, operation of Clutch and Brake, Tyre inflation, Maintenance / timely servicing of vehicle, load etc.. and hence will differ from the mileage given under standard test conditions such as made in recognised institute like ARAI.*

## MAINTENANCE SCHEDULE

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

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



### Caution

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

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

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

Item	Service km Period from date of sale	Service						Remarks
		1st 500-750 1 month	2nd 2500-3000 3 months	3rd 5000-6000 6 months	4th 8500-9000 9 months	Every 3000 km	Every 6000 km	
Engine cum transmission oil	R	R	R	R	R	R	–	
Oil filter (strainer)	C	C	C	C	C	C	–	
Centrifugal filter	–	–	C	–	–	–	C	
Spark plug	C & A	–	–	–	–	–	–	Replace every 12000 km
Air cleaner element <sup>1</sup>	I & C	I & C	I & C	I & C	I & C	I & C	–	Replace every 12000 km
SAI filter element	I	–	–	–	–	–	–	Replace every 12000 km
PCV filter element	–	–	–	–	–	–	–	Replace every 12000 km
Carburettor assembly	C & A	–	–	–	–	–	–	C & A every 12000 km after first service
Tappet clearance	I & A	–	I & A	–	–	–	I & A	
Fuel cock sediment bowl	C	C	C	C	C	C	–	
Hose fuel with respective clamps	I	I	I	I	I	I	I	Replace every two years (or) 20000 kms
All control cables <sup>2</sup>	I, A & L	I, A & L	I, A & L	I, A & L	I, A & L	I, A & L	–	
Throttle grip	–	–	L	–	–	–	L	Lubricate using grease
Choke operation	I	I	I	I	I	I	–	
Steering smooth operation / play	I & A	I & A	I & A	I & A	I & A	I & A	–	C & L with fresh Bechem premium grade 3 grease every 12000 km
Front fork oil	–	–	–	–	–	–	–	Replace every 18000 km
Front and rear suspension	I	I	I	I	I	I	–	Inspect for proper functioning
Speedometer gear pinion / cable	–	–	L	–	–	–	L	Lubricate using grease
All fasteners	I & TI	I & TI	I & TI	I & TI	I & TI	I & TI	–	
Drive chain	C, L & A	C, L & A	C, L & A	C, L & A	C, L & A	C, L & A	–	Adjust if necessary



## MAINTENANCE



Item	Service						Remarks	
	Service km Period from date of sale	1st 500-750 1 month	2nd 2500-3000 3 months	3rd 5000-6000 6 months	4th 8500-9000 9 months	Every 3000 km		Every 6000 km
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 and voltage <sup>3</sup>	I	I	I	I	I	I	-	
Brake effectiveness / play <sup>4</sup>	I & A	I & A	I & A	I & A	I & A	I & A	-	
Brake cams	-	-	L	-	-	-	L	Lubricate using grease
Wheel freeness	I	I	I	I	I	I	-	
Wheel spokes	I & TI	-	I & TI	-	-	-	I & TI	Only in spoke wheel model
Tyre pressure in cold condition	I & S	I & S	I & S	I & S	I & S	I & S	-	
Engine Idling speed	I & S	I & S	I & S	I & S	I & S	I & S	-	
Idling CO% <sup>5</sup>	I & S	-	-	-	-	-	-	
Centre / side stand pivot	L	L	L	L	L	L	-	Lubricate using TRU4 oil
Kick starter pedal pivot	L	L	L	L	L	L	-	Lubricate using TRU4 oil
Swing arm bearings	-	-	-	-	-	-	-	Lubricate using grease every two years
Evaporative emission control system	I	I	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	I & C	I & C	

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

<sup>1</sup> Inspect for any damage    <sup>2</sup> Inspect for proper operation and adjust play. Lubricate ends using grease.

<sup>3</sup> Recharge if necessary    <sup>4</sup> Lubricate brake pedal shaft every service using TRU4 oil

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

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

**RECOMMENDED LUBRICANTS**

<b>Application</b>	<b>Qty</b>	<b>Manufacturer</b>	<b>Brand</b>
Engine cum transmission oil	900 ml (after draining) 1000 ml (after disassembly)	TVS Motor Company	TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)
Front fork oil	155 ± 2 ml / leg (GIL make) 157 ± 2 ml / leg (TOP make)	IOC / Castrol	Teleshockab oil
Grease	–	Bharath petroleum IOC Bechem	MP Grease no. 3 Servo Gem no. 3 Bechem premium grade 3
Chain lubricant	–	TVS Motor Company	TRU SPRAY
Fuel additives	As recommended		IFTEX

### SELF - MAINTENANCE PROCEDURES BATTERY

Battery is located below the cover frame L. The electrolyte level of the battery must be maintained to avoid damages to the battery. To check the electrolyte level, follow the procedure:

1. Place the vehicle on centre stand on a flat surface and open the cover frame L as explained in page no. 19.
2. Inspect the battery electrolyte level. It should be between the minimum and maximum level.



3. If the electrolyte level is below minimum level, add only distilled water upto the maximum level by removing the filler caps.
4. Reinstall the filler caps and clean the battery thoroughly, apply petroleum jelly to the battery terminals to protect it from corrosion.

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



#### Caution

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

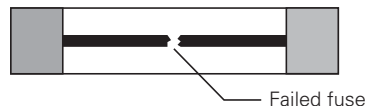
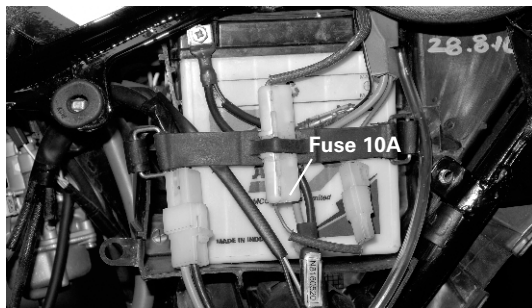
*Never check the battery charge by shorting the terminals. Always connect the positive terminal first and then negative to avoid sparking.*

*Do not obstruct, bend or change the routing of battery air vent tube. Make sure that the vent tube is firmly attached to the battery and the other end is open and clear.*

### 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 causes for fuse failure. Follow the procedure given below for inspecting and replacing the fuse.

1. Open the cover frame L as explained earlier (refer page no. 19).
2. The fuse case fitted on the battery band contains a 10A fuse.
3. Pull out the fuse case from battery band.
4. Open the fuse case and slide out blown fuse.



5. Replace the fuse with a new (extra fuse is provided inside the fuse case itself).
6. Close the fuse case and re-fix it into the battery band.
7. Turn 'ON' the ignition switch and check for proper functioning of electrical systems. In case the fuse fails again, consult the nearest TVS Motor Company Authorised Distributor or Dealer / Authorised Service Centers.



### Caution

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

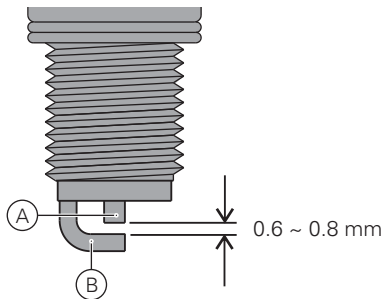
*Do not use fuse of higher amperage than specified for the safety of electrical system.*

## SPARK PLUG

1. Clean the dust and mud around the spark plug mounting to avoid falling inside the cylinder.
2. Pullout the suppressor cap from spark plug. Using spark plug spanner, remove the spark plug.

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

Inspect the spark plug electrodes (A) and (B) for any



corrosion. If found any replace the spark plug with new.

Inspect the spark plug gap with a wire gauge / feeler gauge. Readjust the spark plug gap to **0.6 ~ 0.8 mm** if required.

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



### Caution

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

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

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

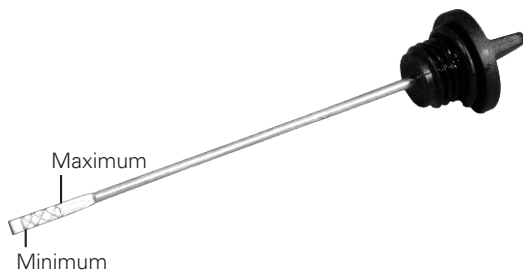
## MAINTENANCE



## ENGINE CUM TRANSMISSION OIL

Check the engine cum transmission oil level periodically.

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



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



## Caution

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

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

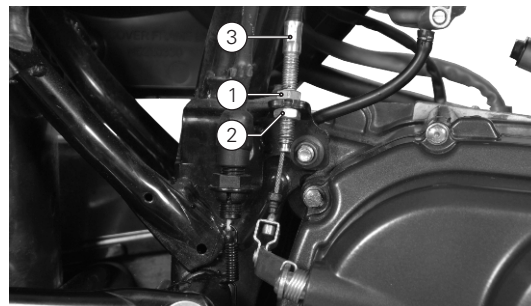
## CLUTCH ADJUSTMENT

Clutch lever free play is one of the most important adjustment which you may need to check in-between services for better life of the clutch plates.

The free play of the clutch lever should be 10 ~ 15 mm as measured at the clutch lever end before the clutch begins to disengage.

Adjust the clutch lever free play periodically by means of clutch cable adjuster at arm clutch release if the free play is not within the specified limit.

1. Ensure that the engine is cold.
2. Loosen the lock nut (2) while holding the clutch cable adjuster (3). Adjust the clutch cable adjusting nut (1) 'in' or 'out' to give sufficient play in the lever.



3. After adjusting the play, hold the adjuster nut in the same position, tighten the lock nut.



### Caution

*Too much or too less clutch lever free play will damage the clutch plates, thereby affecting the performance of the vehicle.*

***Adjust the clutch lever free play only when the engine is cold.***

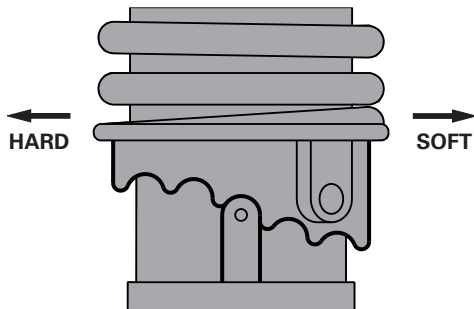
## REAR SHOCK ABSORBERS

TVS Sport is provided with 5 step adjustable rear shock absorbers to meet different road and load.

There are 5 notches for adjusting spring load.

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

Adjust the spring pre-load by shifting the adjuster to the required notch according to the different load conditions. The more you compress the spring, the suspension becomes more stiff.



### Caution

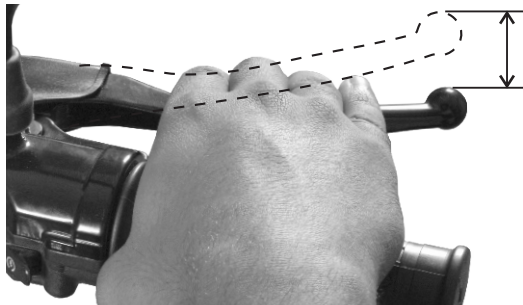
*Keep both left and right shock absorbers spring adjusters in the same position.*

## BRAKES

### Front brake

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





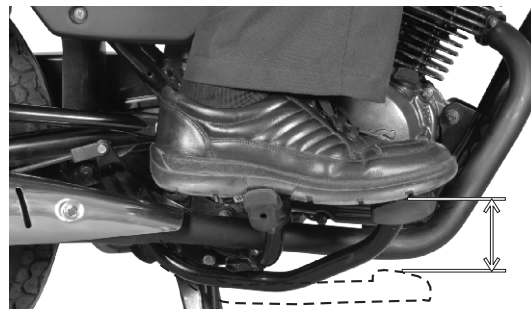
3. If the measured free play is more than the limit, adjust the nut provided at the front wheel end to obtain the correct play.
4. Turn the adjuster nut in clockwise direction for reducing the free play or turn it in anti-clockwise direction for increasing the free play.

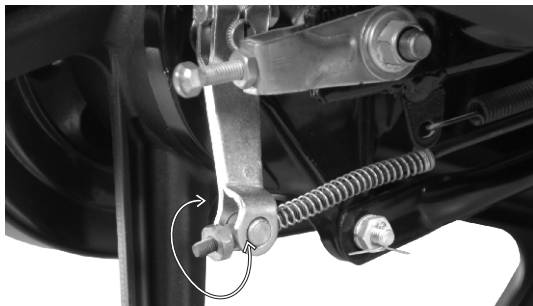
 **Warning**

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



Rear brake

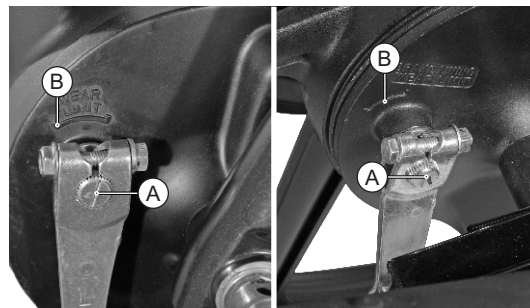




1. Measure the free play of the rear brake pedal at the pedal end as shown in the figure.
2. The free play of the brake pedal before the engagement of brake should be between 15 ~ 20 mm.
3. If the measured free play is more than the limit, adjust the nut provided at the rear wheel end to obtain the correct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

### Brakeshoe wear indicator

When the brake is applied, wear limit index mark (A) on both front and rear brake cam brake should be within the range of wear limit indicator (B) on both front and rear brake panel assembly. In case the index mark (A) is going beyond the wear limit (B), index the lever to next slot with the help of Dealer to extend shoe life.



### Caution

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

## TYRES

### Tyre pressure:

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

Under inflated tyres make smooth cornering difficult and over inflated tyres decreases the tyre contact with the ground which can lead to skidding and loss of control. **Lower tyre pressure consumes more fuel.** Be sure that the tyre pressure is within the specified limit at all times.

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

### Tyre tread condition

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

### Tyre rotation direction

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



### Warning

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

### DRIVE CHAIN

Proper lubrication and adjustment of drive chain gives long service life of chain. Poor maintenance of chain causes premature wear or damage to the drive chain and sprockets. **Poor chain maintenance also affects mileage of the vehicle.** The drive chain must be cleaned, checked, lubricated and adjusted at specified intervals mentioned in the maintenance schedule. If the vehicle is used under severe conditions and more dusty area, the drive chain must be attended more frequently.

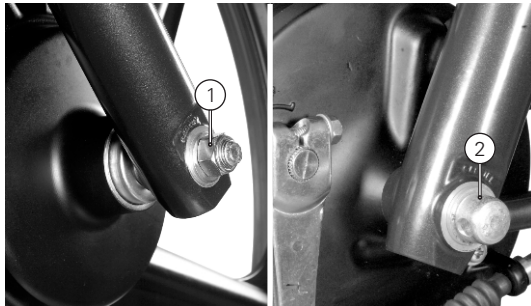


Clean, check, lubricate and adjust the drive chain in the following manner:

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

## FRONT WHEEL REMOVAL AND REASSEMBLY

1. Remove the axle nut (1) along with a washer.
2. Pull out the axle (2) along with a washer and take out a spacer from the right side of the wheel.
3. Place a support below the frame to prevent the vehicle from falling and lift the vehicle up.
4. Dislocate the wheel assembly along with brake panel from the front fork. Separate the brake panel from the wheel and take out the wheel.

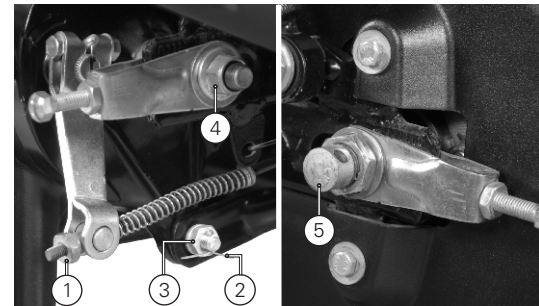


5. Reverse the procedure for reassembling. While reassembling ensure to locate the lug on fork leg L to the slot in the brake panel.

### Warning

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

## REAR WHEEL REMOVAL AND REASSEMBLY



## MAINTENANCE



1. Remove the rear brake adjuster nut (1) and disconnect the brake rod.
2. Remove the split pin (2) and the nut (3) from the torque link mounting with the brake panel and disconnect the torque link.
3. Remove the axle nut (4).
4. Pull out the axle (5) and take out the spacer bush from the rear wheel assembly.
5. Tilt the vehicle to the left and take out the wheel along with the brake panel. Separate the brake panel from the wheel.
6. For locating and reassembling the rear wheel easily, engage the gear. This will arrest the free movement of the drum sprocket.
7. Reverse the procedure for reassembly.



### Caution

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

## STORAGE PROCEDURES

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

1. Clean the vehicle thoroughly. Park the vehicle on centre stand.
2. Warm up the engine and drain engine cum transmission oil. Store the oil, if new, in a dust free container.



### 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.*



### Caution

*Do not park the vehicle on a slope or soft ground or else it may fall down. During storage, the battery must be recharged on a constant current battery charger at recommended amperage atleast once in a month.*

3. Empty the fuel tank. Turn the fuel cock lever to 'OFF' position.
4. Run the engine with fuel cock OFF position till the carburettor fuel bowl becomes empty.
5. Remove the spark plug and feed in several drops of engine cum transmission oil through spark plug hole. Crank the engine few times and reinstall the spark plug.
6. Remove the battery, store it away from direct sunlight and freezing temperatures.
7. Place a suitable support at the bottom of the frame so that both the tyres are off the ground. This will ensure better tyre life.
8. 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.

## TAKING THE VEHICLE OUT OF STORAGE FOR REGULAR USE

1. Take the vehicle out of the garage and clean it thoroughly.
2. Remount the battery after bench charging if required.
3. Fill the engine cum transmission oil [TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)] and check the oil level using gauge oil level.
4. Lubricate the parts as instructed in the periodic maintenance schedule.
5. Fill up fresh petrol in the fuel tank.
6. Check and inflate the tyres to the specified tyre pressure.
7. Check and correct the points mentioned in page no. 22.



### Caution

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

8. Turn the ignition switch to 'ON' position. Start the engine with choke 'ON' for a 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 .
  2. Recommended spark plug one number.
  3. Head lamp, tail lamp and turn signal lamp bulb one each.
  4. Throttle, clutch and front brake cable one each.
  5. Drive chain lock - one number.
  6. First aid kit.
- B) Precautions to be taken for the journey:
  1. Ensure engine cum transmission oil is up to the level.
  2. Adequate fuel in the fuel tank.
- C) Check your motorcycle for the following:
  1. Tightness of all bolts and nuts with correct torque value.

2. Fitness of tyres/tyre pressure/tread depth.
3. All bulbs, indicators and horn functioning.
4. Smooth functioning of all the cables and their free plays.
5. Smoothness of steering operation.
6. Drive chain and sprocket condition. Chain adjustment.
7. Front / rear brake functioning and rear brake lamp switch adjustment.
8. Front fork for any abnormality.
9. Fuel cock bowl filter cleanliness.
10. Spark plug gap and condition of spark plug.
11. Air filter elements cleanliness.
12. Correct idling speed.
13. Lubrication of all items mentioned in the periodic maintenance schedule.



### Warning

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



14. Intactness of EVAP system hoses and canister.
15. Any other job as necessary.
16. Have your vehicle checked at any TVS Motor Company Authorised Distributor or Dealer / Authorised Service Centers.

## SERVICE RECORD SHEET



SERVICE RECORD

SERVICE RECORD				
Sl.No.	Description (kms or month whichever of the two occurs early from the date of purchase)	Odometer reading	Job card no. / Date	Servicing Dealer's stamp and sign.
1	<b>1st service</b> between (a) <b>500 - 750 km</b> or (b) <b>1 month</b>			
2	<b>2nd service</b> between (a) <b>2500 - 3000 km</b> or (b) <b>3 months</b>			
3	<b>3rd service</b> between (a) <b>5000 - 6000 km</b> or (b) <b>6 months</b>			
4	<b>4th service</b> between (a) <b>8500 - 9000 km</b> or (b) <b>9 months</b>			
5	<b>5th service</b> between (a) <b>11500 - 12000 km</b> or (b) <b>12 months</b>			
6	<b>6th service</b> between (a) <b>14500 - 15000 km</b> or (b) <b>15 months</b>			
7	<b>7th service</b> between (a) <b>17500 - 18000 km</b> or (b) <b>18 months</b>			

# SERVICE RECORD SHEET



SERVICE RECORD				
Sl.No.	Description (kms or month whichever of the two occurs early from the date of purchase)	Odometer reading	Job card no. / Date	Servicing Dealer's stamp and sign.
8	<b>8th service</b> between (a) <b>20500 - 21000 km</b> or (b) <b>21 months</b>			
9	<b>9th service</b> between (a) <b>23500 - 24000 km</b> or (b) <b>24 months</b>			
10	<b>10th service</b> between (a) <b>26500 - 27000 km</b> or (b) <b>27 months</b>			
11	<b>11th service</b> between (a) <b>29500 - 30000 km</b> or (b) <b>30 months</b>			
12	<b>12th service</b> between (a) <b>32500 - 33000 km</b> or (b) <b>33 months</b>			
13	<b>13th service</b> between (a) <b>35500 - 36000 km</b> or (b) <b>36 months</b>			
14	<b>14th service</b> between (a) <b>38500 - 39000 km</b> or (b) <b>39 months</b>			

SERVICE RECORD

**SERVICE RECORD SHEET**



**SERVICE RECORD**

<b>SERVICE RECORD</b>				
<b>Sl.No.</b>	<b>Description (kms or month whichever of the two occurs early from the date of purchase)</b>	<b>Odometer reading</b>	<b>Job card no. / Date</b>	<b>Servicing Dealer's stamp and sign.</b>
15	<b>15th service</b> between (a) <b>41500 - 42000 km</b> or (b) <b>42 months</b>			
16	<b>16th service</b> between (a) <b>44500 - 45000 km</b> or (b) <b>45 months</b>			
17	<b>17th service</b> between (a) <b>47500 - 48000 km</b> or (b) <b>48months</b>			
18	<b>18th service</b> between (a) <b>50500 - 51000 km</b> or (b) <b>51 months</b>			
19	<b>19th service</b> between (a) <b>53500 - 54000 km</b> or (b) <b>54 months</b>			
20	<b>20th service</b> between (a) <b>56500 - 57000 km</b> or (b) <b>57months</b>			
21	<b>21st service</b> between (a) <b>59500 - 60000 km</b> or (b) <b>60 months</b>			

## TECHNICAL SPECIFICATIONS



MANUFACTURER : TVS MOTOR COMPANY LIMITED  
P.B. No. 4, Harita, Hosur - 635 109, India.

### ENGINE

Type : Single cylinder, 4 stroke, air cooled spark ignition engine  
Cylinder bore : 51 mm  
Stroke : 48.8 mm  
Piston displacement : 99.7 cc  
Compression ratio : 9.40 : 1  
Carburettor : Spaco AW PP  
Air filter : Foam filter element  
Lubrication system : Forced oil pump  
Maximum power in kW : 5.50 kW (7.48 PS) @ 7500 rpm  
Maximum torque in Nm : 7.5 Nm @ 5500 rpm  
Maximum speed : Around 80 km/h  
Engine idling rpm : 1500 ± 200 rpm (under warm condition)  
Starting system : Kick starter / electric starter\*  
Emission norms : BS IV

### TRANSMISSION

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

### GEAR RATIOS

I gear : 3.273  
II gear : 1.765  
III gear : 1.238  
IV gear : 0.958  
Primary reduction : 3.722  
Secondary reduction : 3.000

\* Applicable for electric start model only

## TECHNICAL SPECIFICATIONS

**CHASSIS**

Overall length	: 1950 mm
Overall width	: 705 mm
Overall height	: 1080 mm
Ground clearance	: 172 mm
Wheel base	: 1236 mm
Kerb weight (with toolkit and 90% of fuel)	: 106 kg (KS model) : 108 kg (ES model)
Payload	: 130 kg
Maximum laden weight	: 236 kg (KS model) : 238 kg (ES model)
Steering angle	: 88°
Caster angle	: 25.1°
Frame	: Single cradle tubular frame
Front suspension	: Telescopic oil damped
Rear suspension	: 5 step adjustable hydraulic shocks with swing arm.
Trail length	: 65 mm

**TYRE**

Tyre size	
Front	: 2.75-17 41P 4PR
Rear	: 3.00-17 50P 6PR
Tyre pressure	
Front	: 1.75 kg/cm <sup>2</sup> (25 PSI)
Rear - solo	: 2.00 kg/cm <sup>2</sup> (28 PSI)
Rear - dual	: 2.25 kg/cm <sup>2</sup> (32 PSI)

**BRAKES**

Front	: Hand operated, internally expanding dia. 130 mm drum
Rear	: Foot operated, internally expanding dia. 110 mm drum

**ELECTRICAL**

Type	: AC generator
Ignition system	: DC digital ignition
Spark plug	: BOSCH UR4AC/ CHAMPION PRZ9HC
Spark plug gap	: 0.6 ~ 0.8 mm
Magneto	: 12V, 60W (fly wheel magneto)
Battery type	: 12V, 2.5 Ah (KS model) : 12V, 5 Ah (ES model)
Body earthing	: Negative terminal
Head lamp	: 12V, 35/35W x 1

## TECHNICAL SPECIFICATIONS



### ELECTRICAL

Tail/brake lamp	: 12V, 5/21W x 1
Turn signal lamp	: 12V, 10W x 4
Speedometer lamp	: 12V, 3.4W x 2
Fuel gauge lamp	: 12V, 1.7W x 1
High beam indicator lamp	: 12V, 1.7W x 1
Neutral indicator lamp	: 12V, 1.7W x 1
Turn signal indicator lamp	: 12V, 1.7W x 1
Economy and power mode indicator lamps	: 12V, 1.7W x 2
Horn	: 12V, DC x 1
Fuse	: 12V, 10A x 1

### CAPACITIES

Fuel	: <b>BS IV / Unleaded petrol</b>
Fuel tank capacity	: 10 liters (including reserve)**
Reserve	: 2.0 liters
Engine cum transmission	: TVS TRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)
Engine cum transmission oil capacity	: 900 ml (after draining) and 1000 ml (after disassembly)
Front fork oil grade	: Castrol /IOC teleshockab oil
Front fork oil capacity	: 155 ± 2 ml per leg (GIL make) : 157 ± 2 ml per leg (TOP make)



### Caution

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



### Note

*Specifications are subjected 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.

