

sta[★]city⁺

ETFE
ECOTHRAUST

TVS 



BS-VI

User Manual



ALWAYS USE TVS-M GENUINE PARTS

CONTACT(S) FOR SUPPORT



For 'Service Appointments & Assistance' and to avail 'Pick-up & Drop' facility please contact

Dealer code, Name

Address

.....

.....

Contact person name and mobile no. (Sales)

.....

Contact person name and mobile no. (Service)

.....

Email id

Incase you need any Clarification please contact above Dealer

Or

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

Or

Toll Free Number : 1800-258-7111

Email : customercare@tvsmotor.com

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



CONTACT AT OUR AREA OFFICES**TAMILNADU-1****1. TVS Motor Company Limited**

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

TAMILNADU-2**2. TVS Motor Company Limited**

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

TAMILNADU-3**3. TVS Motor Company Limited**

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

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

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

KERALA**5. TVS Motor Company Limited**

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

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

No. D-19, 302, 3rd floor,
Gayathri Arcade,
Vikramপুর,
Secunderabad - 500 003.
Phone : 040-27840590/27844419
Email : AO.Hyderabad@tvsmotor.com

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

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

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

No. 600, Anand Surya, 2nd Floor,
15th Cross, 6th Phase, JP Nagar,
Opp. BMTC Stop,
Bangalore - 560 078.
Phone : 080-26653433
Email : AO.Bangalore@tvsmotor.com

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

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



MAHARASHTRA-1 & 2

10. TVS Motor Company Limited

No. 401, 4th floor, The Chambers,
Plot No. 4/12/3, Near Ganpati Chowk,
Viman Nagar, Pune - 411 014.
Phone : 020-26632111/26632110
Email : Service.pune@tvsmotor.com

MAHARASHTRA-3 & CHATTISGARH

11. TVS Motor Company Limited

Plot No. 206, House No. 241,
Ward No. 73, 1st floor,
West High Court Road,
Dharampeth, Nagpur - 400 010.
Phone : 0712-2569932
Email : AO.Raipur@tvsmotor.com
Service.Nagpur@tvsmotor.com

GUJARAT

12. TVS Motor Company Limited

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

MADHYA PRADESH-1

13. TVS Motor Company Limited

211-212, 2nd floor,
Chinar Incube Business centre,
Chinar Fortune City,
Near Vrindavan Dhaba,
Hoshangabad Road,
Bhopal - 462 026.
Phone : 0755-2499406/2499306
Email : AO.Bhopal@tvsmotor.com

MADHYA PRADESH-2

14. TVS Motor Company Limited

301, 3rd floor, Shagun Arcade,
Vijay Nagar circle, A B Road,
Indore - 452 010.
Phone : 9893028266
Email : AO.Indore@tvsmotor.com

UTTAR PRADESH-EAST & CENTRAL

15. TVS Motor Company Limited

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

UTTAR PRADESH-WEST

16. TVS Motor Company Limited

D-3 & D-4, 2nd floor,
Sector - 10, Noida,
Uttar Pradesh - 201 301.
Phone : 011-29834640/29834773
Email : AO.Upw@tvsmotor.com

DELHI & HARYANA

17. TVS Motor Company Limited

D-3 & D-4, 2nd floor,
Sector - 10, Noida,
Uttar Pradesh - 201 301.
Phone : 011-29834640/29834773
Email : AO.Delhi@tvsmotor.com
AO.Haryana@tvsmotor.com

PUNJAB, HIMACHAL PRADESH,

JAMMU & KASHMIR

18. TVS Motor Company Limited

SCF- 10-11, Kalghaidhar Enclave,
Baltana Road, Zirakpur,
District Mohali - 140 603.
Phone : 01762-511659/511661
Email : AO.Chandigarh@tvsmotor.com

RAJASTHAN-1**19. TVS Motor Company Limited**

Plot No. 17-18,
2nd floor of National Motors building,
Jhotwara Industrial Area,
Jaipur - 302 012.
Phone : 0141-5150901/5150902
Email : AO.Jaipur@tvsmotor.com

RAJASTHAN-2**20. TVS Motor Company Limited**

204, 2nd floor,
Daulet Chambers,
Near Meera Girls Collage, 4-D,
Sardarpura, Udaipur - 313 004.
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Email : AO.Udaipur@tvsmotor.com

BIHAR**21. TVS Motor Company Limited**

N-Plaza, Jamal Road,
P.S. Kotwali, Patna - 800 001.
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Email : AO.BNJ@tvsmotor.com

ODISHA & JHARKHAND**22. TVS Motor Company Limited**

#303, 3rd floor,
Creative Plaza, Rasulgarh,
Bhubaneswar - 751 010.
Phone : 0674-2580019
Email : AO.Bhubaneswar@tvsmotor.com

WEST BENGAL**23. TVS Motor Company Limited**

Ground floor & First floor,
133 A.S.P. Mukherjee Road,
Opp. Tollygunge Police Station,
Kolkata - 700 026.
Phone : 033-24617092/24617096
Email : AO.kolkata@tvsmotor.com

NORTH EAST STATES**24. 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

FOREWORD



Dear friend,

Thank you for choosing the all new **TVS StaR City+**, the StaR of Style.

As a proud owner of **TVS StaR City+**, you are now a part of a family of millions of satisfied TVS customers.

Your **TVS StaR City+** comes with all new urban designer styling which makes it much more chiseled, muscular and exudes definitive road presence that signals your arrival in Style, because great Style never goes out of Style!

The all new styling, coupled with never before features and an all new advanced 110cc EcoThrust engine makes your **TVS StaR City+** stand out and gives it a definitive edge.

This manual explains the features and operations of your **TVS StaR City+**. 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 StaR City+** serviced only at TVS Motor Company Authorised Main Dealers / Authorised Dealers at specified regular intervals.

Happy Riding!

TVS MOTOR COMPANY LIMITED

SAFETY INFORMATION



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

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

Warning

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

Caution

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

Note

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



NOTICE



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.

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

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



Revision 0, Jan 2020



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RUNNING-IN INFORMATION



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 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 cum 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 cum 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.

*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 StaR City+

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

Riding apparel

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

Know your limits

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

Warning

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

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

Posture

Proper vehicle riding starts with proper posture.

1. Sit erect on the seat at the position which you feel most comfortable.
2. Keep your arms relaxed to give extra cushion for body on uneven road surfaces.
3. Keep right arm and foot close to the brake lever and pedal, so as to enable fast action during panic braking.
4. Look widely instead of gazing at one point.

Warning

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

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

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

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

Cornering

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

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

Braking

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

1. Close / release the throttle.
2. Hold the vehicle upright as you apply the brake.
3. Progressive application of brake is safer.
4. Never depress the clutch lever while braking at higher speeds.
5. **Apply both the brakes. 'SBT' provides additional braking even when 'Only Rear brake' is applied, But applying 'Both the brakes' helps you use the full potential of the brakes.**

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

Causes for poor braking

1. If the brake shoes 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.

Warning

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

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

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

2. Even when the brake works normally, if the road surface is wet or the tyre surface is worn-out, tyres do not take a firm hold on the surface, increasing the stopping distance.
3. Approximately 60% braking effect is from front brake. **Non-usage of front brake causes poor braking.**

ACCESSORY INSTALLATION AND SAFETY TIPS

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

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

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

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

EMISSION CONTROL

All the TVS vehicles are tested in the factory for optimum fuel efficiency and CO levels. If the vehicle needs any adjustments, please consult nearest TVS Motor Company Authorised Main Dealer 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 motorcycle in good condition by getting it periodically checked and serviced by TVS Motor Company Authorised Main Dealer / Authorised Dealer so that the emission and fuel consumption levels are maintained as per norms.

Crankcase emission control system

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

Evaporative Emission Control System

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

Warning

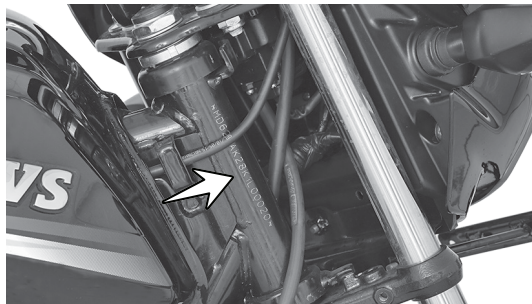
If there is any abnormal jerk, startability issue are felt in the vehicle or noise due to sudden escape of gas during opening of fuel tank cap, immediately report to the TVS Motor Company Authorised Main Dealer / Authorised Dealer.

Note

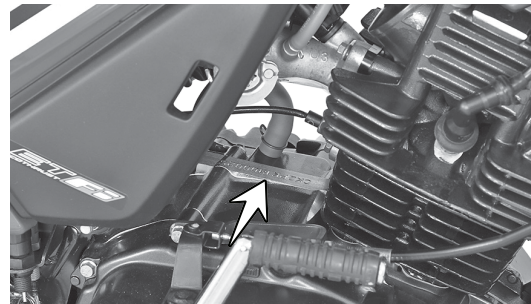
Your vehicle is tested and certified for emission which meets BS VI emission norms and is valid for initial 12 months from the date of purchase. Get your vehicle certified by the Government authorised emission testing station every year (after initial 12 months of usage).

VEHICLE IDENTIFICATION NUMBER

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



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



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

Frame number

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

Engine number

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

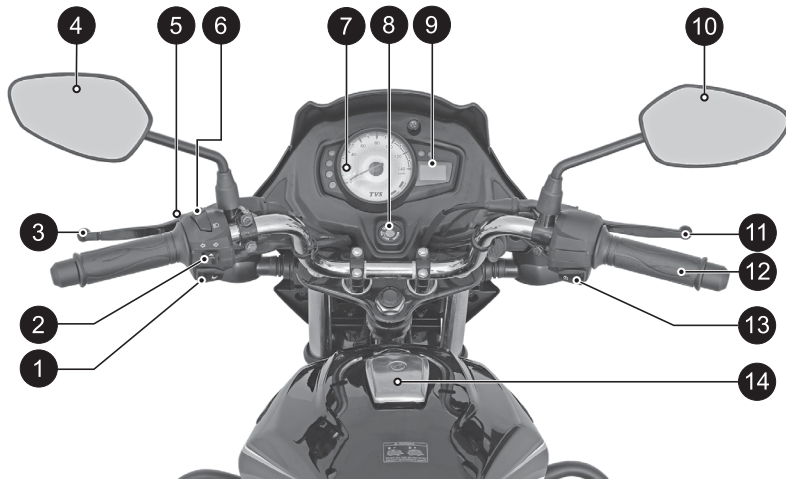
Control key number

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

Please fill the above boxes now for future reference

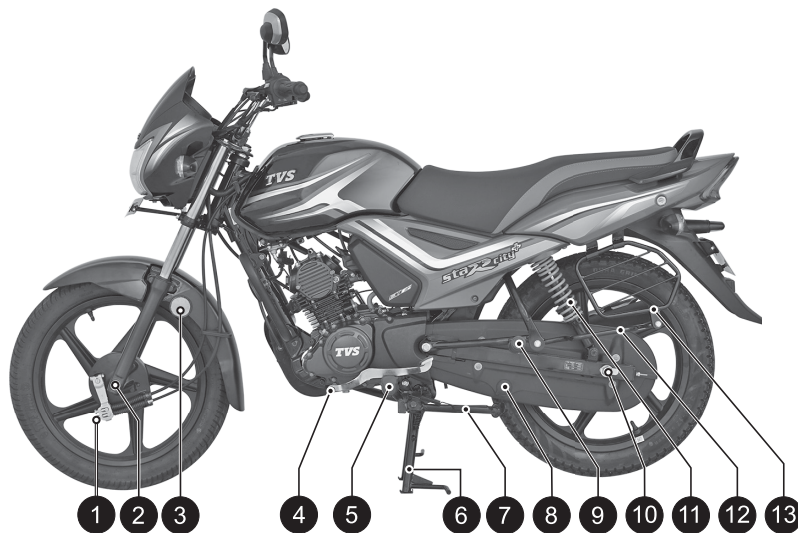


LOCATION OF PARTS - HANDLE BAR



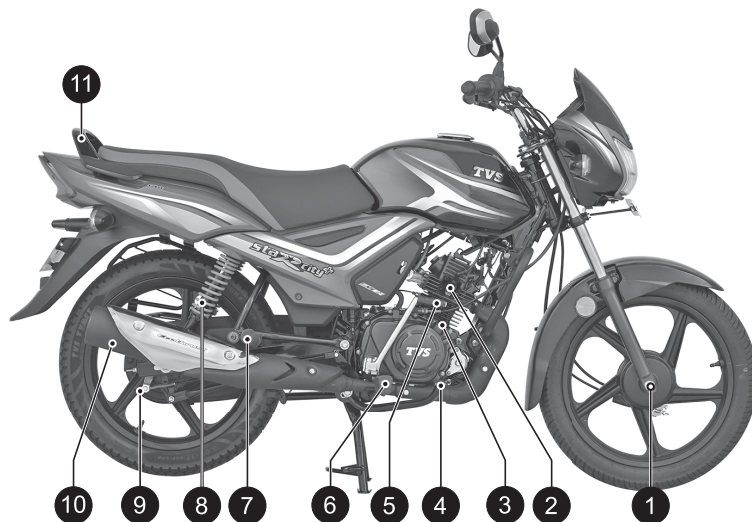
1. Horn switch
2. Turn signal lamp switch
3. Clutch lever
4. Rear view mirror L
5. Pass by switch
6. Beam control switch
7. Speedometer
8. Ignition cum steering lock
9. Fuel gauge / ODO meter
10. Rear view mirror R
11. Front brake lever
12. Throttle grip
13. Electric starter switch
14. Fuel tank cap

LOCATION OF PARTS - VEHICLE LEFT SIDE



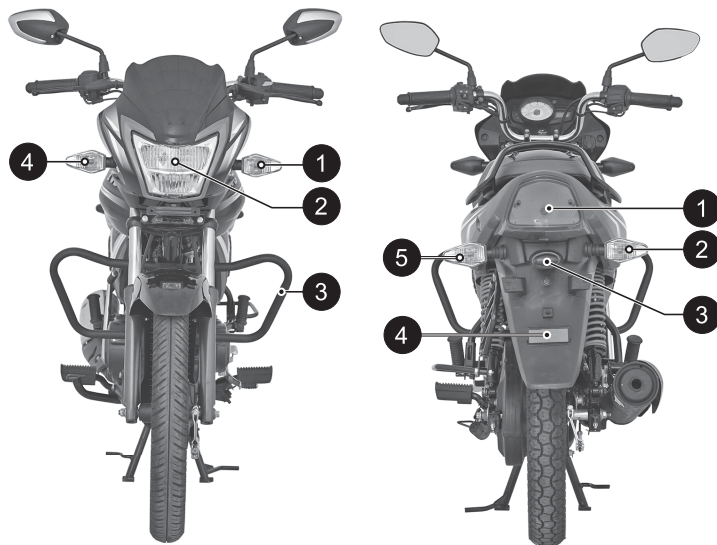
1. Front brake adjusters
2. Front wheel axle
3. Reflex reflector
4. Gear shift lever
5. Rider foot rest L
6. Centre stand
7. Side stand
8. Chain inspection window
9. Pillion foot rest L
10. Rear wheel axle
11. Rear shock absorber L
12. Lady foot rest*
13. Saree guard*

* Mandatory and optional accessory will be charged extra

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. Rear brake adjuster
10. Muffler assembly
11. Pillion handle

LOCATION OF PARTS - VEHICLE FRONT & REAR



FRONT

1. Turn signal lamp front L
2. LED head lamp assembly
3. Crash guard*
4. Turn signal lamp front R

REAR

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

* Mandatory and optional accessory will be charged extra

CONTROL KEY

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

IGNITION CUM STEERING LOCK

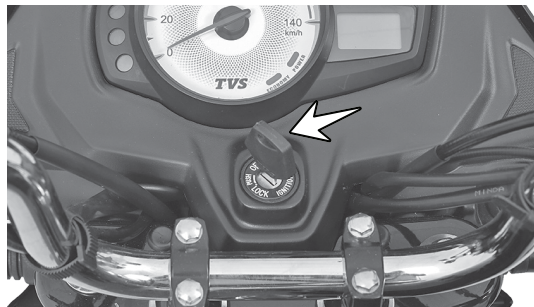
There are three positions in the ignition cum steering lock. They are:

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 StaR City+'s steering can be locked in both 'left' and 'right' directions. To lock the steering, turn the handle bar all the way to the 'left' or 'right'.

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.



Note

When you switch on ignition key, the pump priming noise may be heard, which is normal. Avoid frequent SWITCH-OFF & ON of ignition key, to avoid unnecessary run of fuel pump. Head lamp, tail lamp and speedometer back-light glows automatically once the engine is started without activating any other switches.



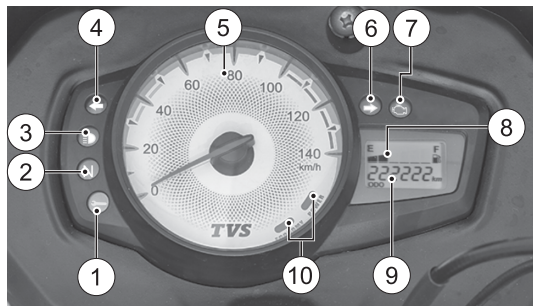
Caution

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

SPEEDOMETER ASSEMBLY

1. Service reminder ()

If the service is due, whenever the ignition switch is turned 'ON', an icon with spanner symbol blinks for 10 seconds after the self test cycle of speedometer and continues to glow till the vehicle is serviced and reset.



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

2. Neutral indicator lamp (N)

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

3. High beam indicator lamp ()

Glowes when the head lamp high beam is activated.

4. Turn signal indicator lamp left ()

Flashes when the left side turn signal indication is activated.

5. Speedometer

Indicates the vehicle speed in kilometers per hour.

6. Turn signal indicator lamp right ()

Flashes when the right side turn signal indication is activated.



Caution

Before turning the IGNITION key to ON position, ensure the availability of adequate fuel in the tank. **To avoid dry run of fuel pump, fuel level to be maintained above single bar.**

Never run the fuel pump dry without fuel to avoid failure of fuel pump.

7. Malfunction indicator lamp - MIL ()

MIL is turned ON when the ECU detects a fault in the system.

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

8. Fuel gauge

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



All the six bars will be displayed when the fuel in the tank reaches above 7.5 liters approximately (full tank). When the fuel reaches half tank (5.5 liters approx.) the fuel gauge displays only four bars as shown.



The fuel gauge shows only single bar when the fuel reaches reserve level (2.5 liters approx.).



This single bar starts blinking when the fuel reaches to the safe level of approximately 1.5 liters. Refill the fuel immediately.

9. Odometer

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



10. Economy and power indicators

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

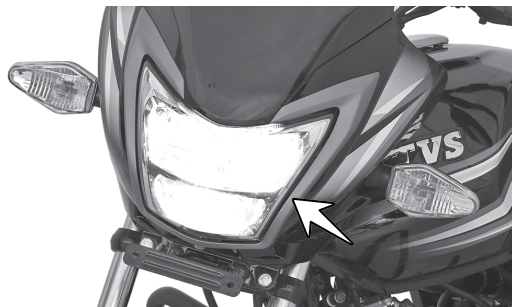
Power indicator (amber lamp) indicates that the vehicle is running in power mode which results in reduced fuel economy. Power indicator will start blinking when engine is in idling for more than 20 seconds.

i Note

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

LED HEAD LAMP

TVS Star City+ comes with a LED head lamp which glows automatically once the engine is started. The head lamp beam (high / low) can be controlled by pressing the 'high / low beam switch'.



HANDLE BAR LEFT SIDE

1. Horn switch

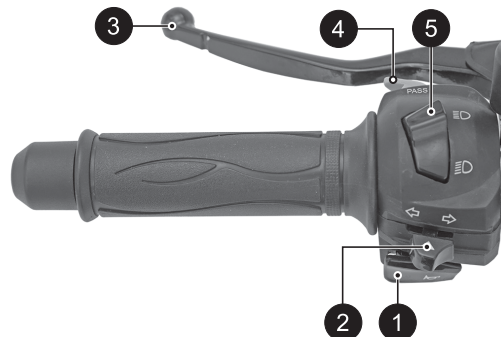
Press the switch '  ' to operate the horn.

2. Turn signal lamp switch

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

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.



4. 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 is turned ON and glowing in high beam, there will not be any change in the beam of head lamp.

5. Beam control switch

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

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

Warning

Always use the appropriate turn signal lamps when you intend to change lanes or take turns. Be sure to switch it 'OFF' after negotiating the lanes or turns. Use appropriate head lamp beam 'high / low' as per the traffic and road conditions for your safety and to avoid inconvenience to other riders.

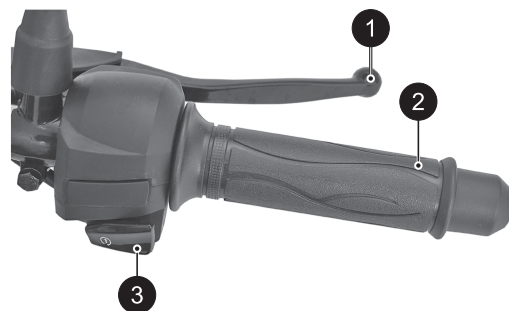
Note

Head lamp glows only when the engine is in running.

HANDLE BAR RIGHT SIDE

1. Front brake lever

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



Warning

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

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. Electric starter switch

Press the electric starter switch '  ' to start the engine electrically with the transmission is in neutral or by depressing the clutch lever when the transmission is in gear.

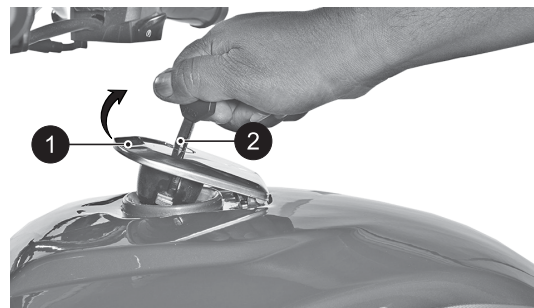
Warning

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.

FUEL TANK** CAP

To open the fuel tank cap (1), insert the control key (2) into the lock and turn it in clockwise direction and then lift the cap.

To close, rotate the key in clockwise direction and then gently push the cap on to the inlet and press at the front end till lock sound is heard. Take out the key upon hearing the locking sound.



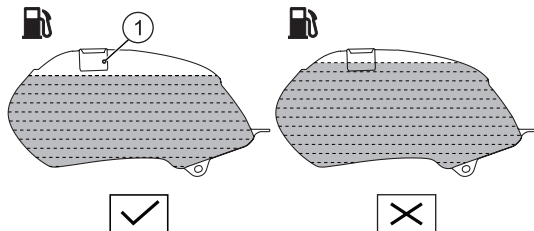
Warning

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

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

EVAPORATIVE EMISSION CONTROL SYSTEM

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



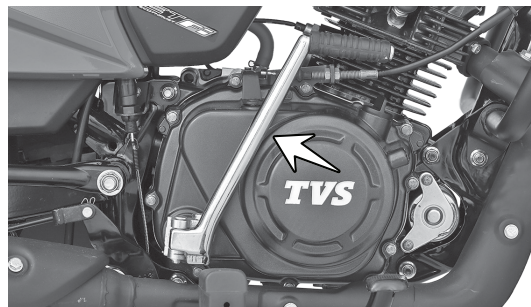
Caution

Do not clean the vehicle by laying down on floor, to avoid fuel entry into EVAP system. **Never fill fuel beyond the fuel tank inlet (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.

KICKSTARTER LEVER

The kickstarter 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 the top and stroke to bottom with rapid motion



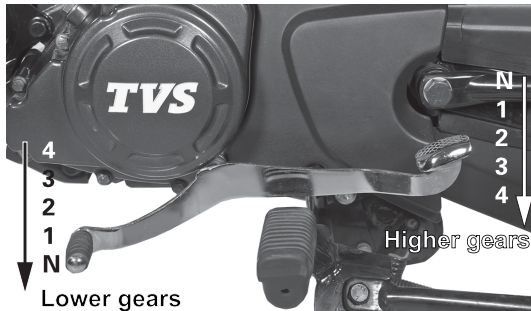
Note

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

GEAR SHIFT LEVER

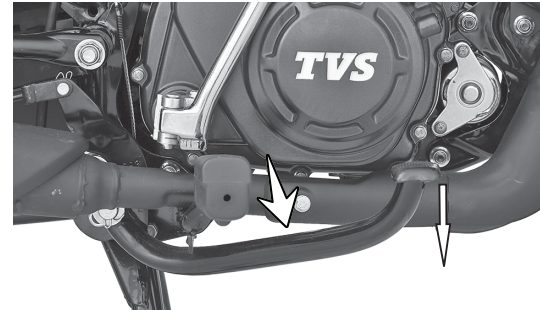
TVS StaR City+ has a heel and toe gear shift lever. To shift the gear from neutral to higher, press the rear end of gear shift lever by heel once for each gear after applying the clutch.

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 front brake will be also applied while applying the rear brake. The brake lamp glows on application of brake.



Warning

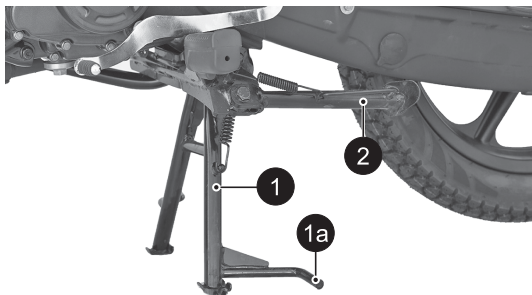
Brakes are items of personal safety and should always be maintained in proper condition.

CENTRE STAND AND SIDE STAND

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

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

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



Warning

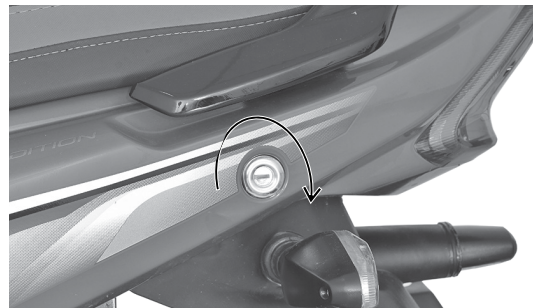
Always release the side stand to its full up position before moving the vehicle.

Caution

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

SEAT LOCK

Seat lock is provided at the tail end of the vehicle for the removal of seat assembly and there by accessing the tool kit and first aid kit. Follow the procedure given below for removing and re-fixing the seat assembly.



For removing :

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 re-fixing :

1. Assemble the seat assembly in the frame and push it forward.
2. Gently press at the rear end until you hear a click sound from the lock and take out the control key.

i Note

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

COVER FRAME L

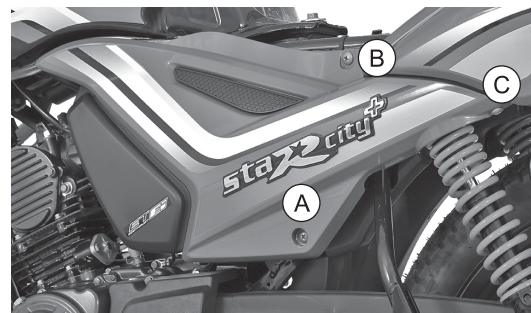
To access the battery assembly and the fuse, cover frame L need to be removed. Follow the procedure given below for removing and re-fixing cover frame.

For removing :

1. Open the seat as explained earlier. Remove the mounting screws (A, B & C) of cover frame.
2. Gently dislocate the cover frame lug from the fuel tank and take out the cover.

For reassembling:

1. Locate the cover frame lug into the fuel tank hole and gently press the cover.
2. Assemble the screws (three) and tighten them while ensuring the proper seating of cover.



i Note

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

TOOL KIT AND FIRST AID KIT

To assist you in performing certain aspects of periodic maintenance and emergency repairs, a tool kit is supplied along with the vehicle. A first aid kit is also available with the tool kit

Both tool kit and first aid kit are located below the cover frame L. Remove the cover frame L as explained earlier to access them.

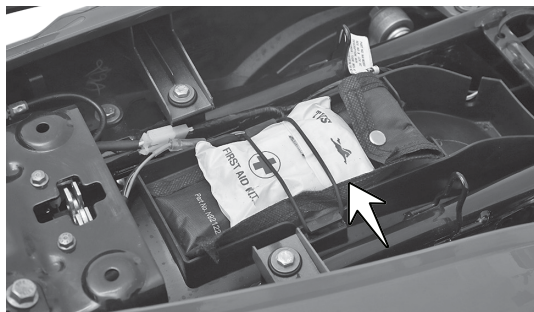
Tool kit consists one number each of the following:

1. 12x14 mm open end spanner
2. Combination screw driver bit

3. Screw driver handle
4. Tool bag

i 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 Main Dealer / Authorised Dealer.

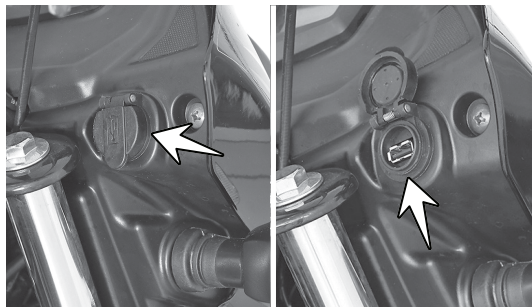


SMART PHONE CHARGER*

Location for fixing a smart phone charger has been provided on the right side bottom of the housing head lamp of your vehicle. The smart phone charger supplied by the company can be fitted on your vehicle on chargeable basis. Ask your Dealer to fix the same if required. Please follow the guidelines mentioned below for using it properly:-

DO's

1. Ensure that no water enters into the unit, by closing the USB flap properly.
2. Use the USB, if approved standard USB cable used for charging mobile.



3. Do make sure the flap is not damaged while opening / inserting the USB cable.

DON'TS

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



Caution

The charging time of the mobile may vary, depending on the mobile's battery state of charge.

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

** Optional accessory will be charged extra*

PRE RIDE INSPECTION

Check the following items before riding

ITEM	WHAT TO CHECK FOR
Engine cum transmission oil	Availability of oil upto the level (page no. 35)
Fuel	Enough fuel for the planned distance of running
Tyres	Correct pressure (page no. 42) Adequate tread depth / No cracks or cuts
Battery	Proper working of speedometer lamp, tail lamp, license plate lamp, brake lamp, turn signal lamps, neutral lamp and electric starter.
Speedometer	Performing self check
Lighting	Proper working of head lamp high beam / low beam and high beam indicator
Steering	Smooth movement / No play or looseness
Throttle	Correct free play of cable / Smooth operation
Clutch	Correct free play of cable (page no. 36) Smooth and progressive action
Brakes	Proper working of brake. Correct lever and pedal play (page no. 38)
Wheels	Free rotation
Malfunction indicator	Turned OFF after when engine is started (page no. 13)

Starting the engine

Insert the control key into the ignition cum steering lock and turn it to the 'ON' position.

After fuel pump priming (approx. few secs) keep the transmission in neutral and press the electric starter switch to start the engine electrically or kick start. Ensure availability of fuel in the tank.

When the engine is cold

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



Caution

Once the vehicle is started, engine idling rpm will be high and will stabilize gradually. Do not 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 internal components.



Warning

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

Setting the vehicle in motion

1. Depress the clutch lever and engage the first gear by pressing 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 braking by shifting to a lower gear.

Stopping and parking

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



Note

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



Warning

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

FUEL RECOMMENDATION

Use only BS VI or unleaded petrol with minimum RON 91.

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.

CHECKS AND TIPS FOR IMPROVING FUEL ECONOMY

Regular checks

Carry out the periodic maintenance checks as specified in this manual (page no. 29 and 30).

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 paper filter is used in your motorcycle it is not recommended to clean the filter. In case of any abnormalities (heavy dust clogging, damage) replace it earlier than the 12000 km.

Clutch

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

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

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.



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, throttle body 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.

Inspect the tyre pressure regularly (weekly) and inflate it to the recommended pressure (refer page no. 42). Never use tyres which are worn beyond the permissible limit.

i Note

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

Chain slackness

Check and ensure the drive chain slackness. Excess slackness leads to higher fuel consumption (refer page no. 43).

Wheel freeness

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

Fast starting from rest wastes fuel

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

Fast acceleration wastes fuel

Fuel is wasted whenever you suddenly accelerate or apply brake.

Avoid unnecessary idling

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

Avoid frequent braking

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

MAINTENANCE SCHEDULE

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

Periodic inspections may reveal one or more parts that may need replacement. Whenever replacing parts on TVS Star City+, 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 require 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 the date of sale	In free service					After free service		Remarks
		1st 500 - 750 1 months	2nd 2500 - 3000 3 months	3rd 5000 - 6000 6 months	4th 8500 - 9000 9 months	5th 11500 - 12000 12 months	Every 3000 km	Every 6000 km	
Malfunction codes		I	I	I		I	I	—	Check using diagnostic Tool
Engine cum transmission oil		R	I & T	R	I & T	R	I & T	R	
Oil filter (strainer)		C	—	C	—	C	—	C	
Centrifugal filter		—	—	C	—	C	—	C	
Spark plug		C & A	—	—	—	R	—	—	Replace every 12000 km
Air cleaner elements		I	—	—	—	R	—	—	Replace every 12000 km
Tappet clearance		I & A	—	I & A	—	I & A	—	I & A	Adjust if required
Hose fuel		—	—	—	—	—	—	—	Inspect every service after four years, replace if required.
Fuel filter		—	—	—	—	—	—	—	Replace every 24000 kms
Clutch and Throttle play ¹		I & A	I & A	I & A	I & A	I & A	I & A	—	
Throttle grip		—	—	L	—	L	—	L	Lubricate using grease
Steering smooth operation / play		I & A	I & A	I & A	I & A	C, L & A	I & A	—	C & L with fresh Bechem
Front fork oil		—	—	—	—	—	—	—	Replace every 18000 km
Front and rear suspension		I	I	I	I	I	I	—	Inspect for proper functioning
All fasteners		I & Tl	I & Tl	I & Tl	I & Tl	I & Tl	I & Tl	—	
Drive chain		C, L & A	C, L & A	C, L & A	C, L & A	C, L & A	C, L & A	—	
All bulbs, horn and switches		I	I	I	I	I	I	—	Inspect for proper functioning

¹ Inspect for proper operation and adjust play. Lubricate ends using grease

Contd...

Item	Service km Period from the date of sale	In free service					After free service		Remarks
		1st 500 - 750 1 months	2nd 2500 - 3000 3 months	3rd 5000 - 6000 6 months	4th 8500 - 9000 9 months	5th 11500 - 12000 12 months	Every 3000 km	Every 6000 km	
Head lamp beam		I & A	I & A	I & A	I & A	I & A	I & A	–	
Battery voltage ²		I	I	I	I	I	I	–	
Brake effectiveness / play		I & A	I & A	I & A	I & A	I & A	I & A	–	
Brake cams / SBT system parts ³		–	–	C & L	–	C & L	–	C & L	Lubricate using grease
Wheel freeness		I	I	I	I	I	I	–	
Tyre pressure at cold condition		I & S	I & S	I & S	I & S	I & S	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
Evaporative emission control system and hoses		I	I	I	I	I	I	–	Inspect every service after four years, replace if required.

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

² Recharge if necessary ³ Lubricate brake pedal shaft every service using TRU4 oil

⁴ Inspect the SBT inner cable and front brake lever slackness and adjust if required

RECOMMENDED LUBRICANTS

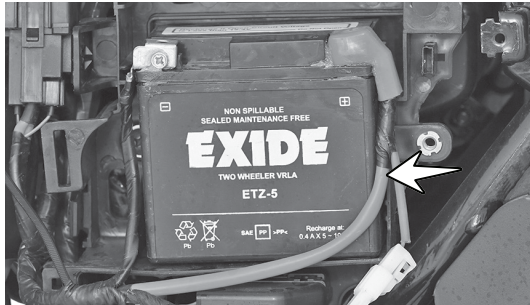
APPLICATION	QTY	MANUFACTURER	BRAND
Engine cum transmission oil	1000 ml	TVS Motor Company	TVSTRU4 PREMIUM oil (SAE 10W30 API-SL, JASO MA2)
Front fork oil	155 ± 2 ml / leg (GIL make) 157 ± 2 ml / leg (TOP make)	IOC	Teleshockab oil
Grease	—	Bharat petroleum IOC Bechem	MP Grease no. 3 Servo Gem no. 3 Bechem premium grade 3

SELF - MAINTENANCE PROCEDURES

Maintenance Free (MF) Battery

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

1. Place the vehicle on center stand on a flat surface and open the cover frame L as explained in page no. 20.
2. Check the battery voltage as per the schedule. If the voltage measured is less than 12.4 Volts, charge the battery using **recommended MF battery** charger at TVS Motor Company Authorised Main Dealer / Authorised Dealer.



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

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



Caution

Never check the battery charger by shorting the terminals.

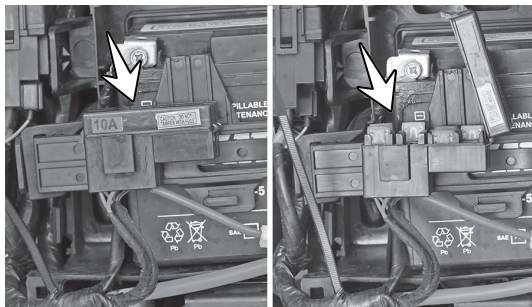
Always connect the positive terminal first (red wire) and then negative (black wire) to avoid sparking.

The inversion of the battery wires can damage the battery and the recharging system.

FUSE

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

1. Open the cover frame L as explained earlier (refer page no. 20).
2. The fuse case fitted near the battery contains two 10A fuses and one 15A fuse.
3. Open the fuse and pull out the required fuse.
4. Replace the blown fuse with a new one (extra fuses are provided inside the fuse case itself).



5. Close the fuse case and re-fix case into the battery band.
6. 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 Main Dealer / Authorised Dealer.



Caution

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

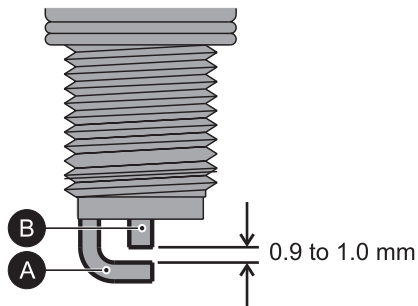
Do not use fuse of higher amperage than specified for the safety of electrical system.

SPARK PLUG

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

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

Inspect the spark plug electrodes (A) and (B) for any corrosion. If found any replace the spark plug with new.



Inspect the spark plug gap 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. Do not over tight or cross thread the spark plug. After re assembling the spark plug ensure proper fitment of suppressor cap.

Caution

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

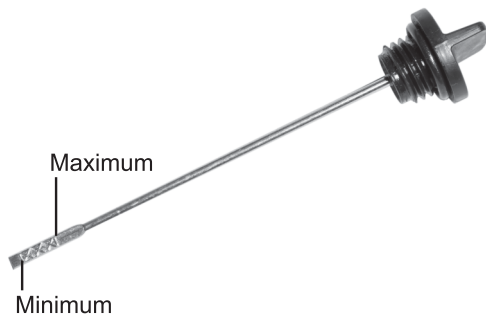
Cover the spark plug hole with a clean cloth when the plug is removed to prevent dust / water entry.

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

ENGINE CUM TRANSMISSION OIL LEVEL

Check the engine cum transmission oil level periodically.

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



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



Caution

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

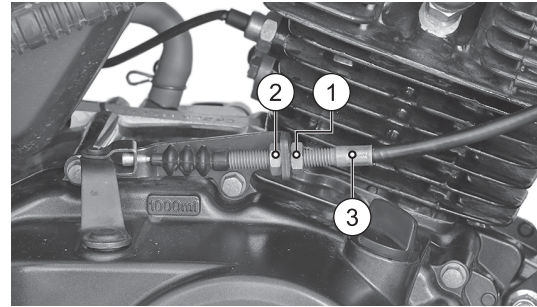
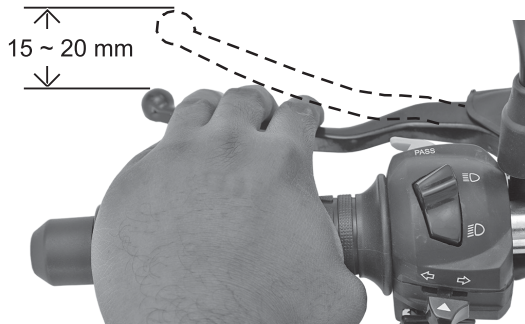
Do not fill excess oil may cause oil leak. Always use 'TVS TRU4 PREMIUM oil only (SAE 10W30 SL-JASO MA2).

CLUTCH ADJUSTMENT

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

Adjust the clutch lever free play periodically by means of clutch cable adjuster at arm clutch release if the free play is 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 adjuster nut (1) 'in' or 'out' to give sufficient play in the clutch lever.
3. After adjusting the play, hold the adjuster nut (1) in the same position, tighten the lock nut (2).



Caution

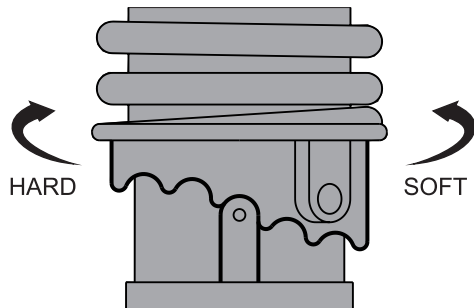
*Too much or too less clutch lever free play will damage the clutch plates, thereby affecting the performance of the vehicle. **Adjust the clutch lever free play only when the engine is cold.***

REAR SHOCK ABSORBERS

TVS StaR City+ 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.



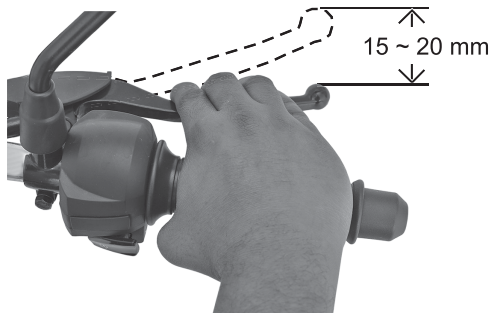
Caution

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

BRAKES

Front brake

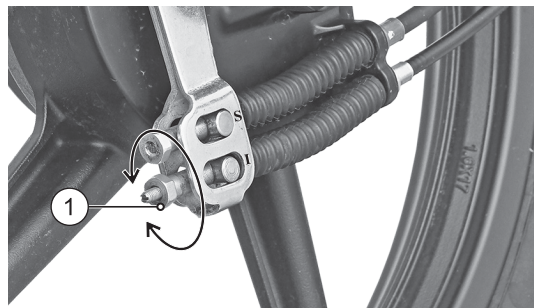
1. Measure the free play of the front brake lever at the lever end as shown in the figure.
2. The free play of the brake lever before the engagement of brake should be between 15 ~ 20 mm.



Warning

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

TVS 



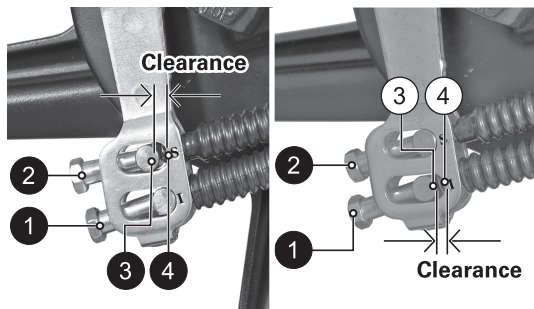
SBT
SYNCHRONIZED BRAKING
TECHNOLOGY

Warning

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

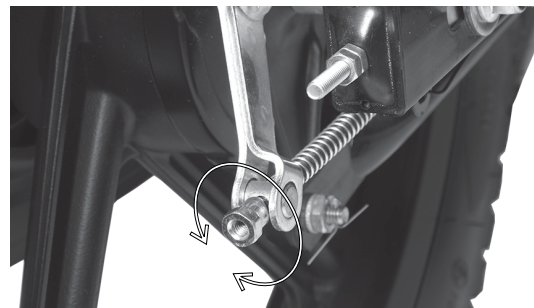
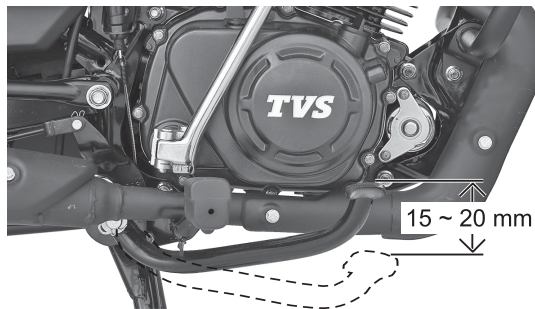
Please contact TVS Motor Company Authorised Main Dealer or Authorised Dealer for any further assistance.

3. Turn the adjuster nut at bottom side (1) in the slot marked as "I" in clockwise direction for reducing the free play or in anti-clock wise direction for increasing the free play.
4. After obtaining the necessary free play at the lever end, inspect for the clearance between the bullet (3) and slot end (4) marked as "S" as shown in figure.
5. If any clearance is found then turn the top side adjuster nut (2) at slot marked as "S" in clockwise direction until there is no clearance between the bullet (3) and slot top (4).
6. After adjusting the nut top, If any clearance is observed in between the bullet bottom (5) and slot bottom (6) marked as "I" as shown, then turn the adjuster nut (2) in anti-clockwise until the clearance is closed.
7. Once again check and confirm the brake play at the lever end.



Rear brake

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

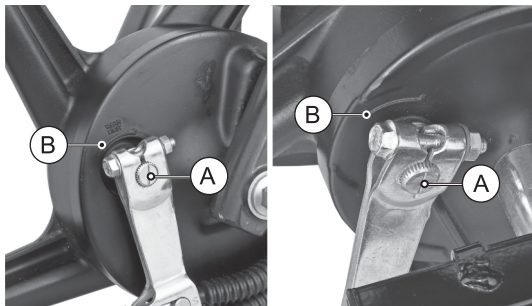


Warning

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

Brake shoe wear indicator

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



Caution

Replace the brake shoes as a set, if wear limit index mark (A) exceeds beyond the range of wear limit indicator (B) even after indexing the lever.

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

TYRES

Tyre pressure:

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

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

	Solo	Pillion
Front	1.75 kg/cm ² (25 PSI)	1.75 kg/cm ² (25 PSI)
Rear	2.25 kg/cm ² (32 PSI)	2.50 kg/cm ² (36 PSI)

Tyre tread condition

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

Tyre rotation direction

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



Warning

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

Tyre puncture

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

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



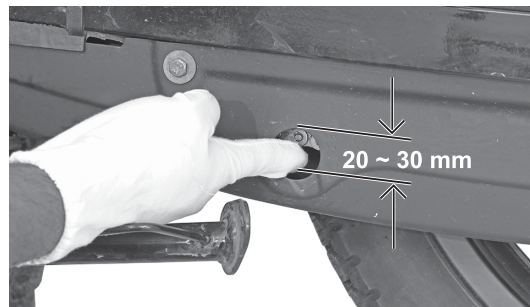
Caution

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

DRIVE CHAIN

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

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

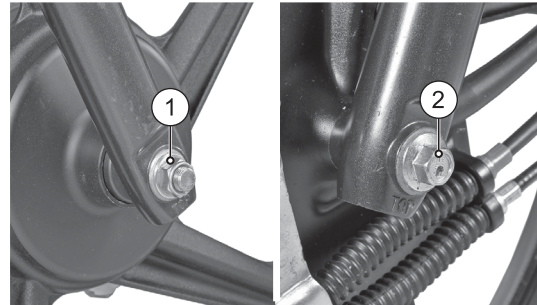


Check, clean, lubricate and adjust the drive chain in the following manner:

1. Place the vehicle on centre stand with the transmission in neutral.
2. 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 (maximum 20 ~ 30 mm). **Excess slackness consumes more fuel.**
5. If the slackness is found more, contact TVS Motor Company Authorised Main Dealer / Authorised Dealer 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.
3. Take out a spacer from right side of the wheel.
4. Place a support below the frame to prevent the vehicle from falling and lift the vehicle up.
5. Dislocate the wheel assembly along with brake panel from the front fork. Separate the brake panel from the wheel and take out the wheel.
6. Reverse the procedure for reassembling. While reassembling ensure to locate the lug on fork leg L to the slot in the brake panel.

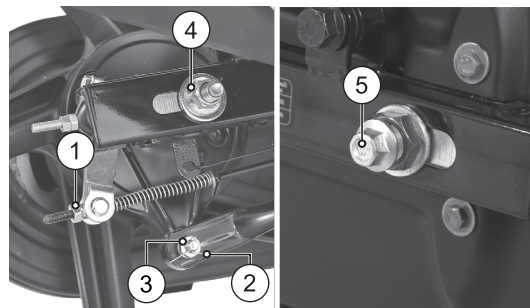


 Warning

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

REAR WHEEL REMOVAL AND REASSEMBLY

1. Remove the rear brake adjuster nut (1) and disconnect the brake rod.
2. Remove the split pin (2) and the nut (3) from torque link mounting with the brake panel and disconnect the torque link.
3. Remove the axle nut (4).
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.

Warning

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

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.
3. Empty the fuel tank.
4. Remove the spark plug and feed in several drops of engine cum transmission oil through spark plug hole. Crank the engine few times and reinstall the spark plug.
5. Remove the battery, store it away from direct sunlight and freezing temperatures.

Caution

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

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

6. Place a suitable support at the bottom of the frame so that both the tyres are off the ground. This will ensure better tyre life.
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.

 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.

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 SLJASO 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. 23.
8. Turn the ignition switch to 'ON' position. Start the engine and run in idle for a few minutes and ride out.



Caution

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

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

A) Please keep the following items for use in case of emergency:

1. Tool kit complete.
2. Recommended spark plug one number.
3. 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 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 cables and their free play.

5. Smoothness of steering operation.

6. Drive chain and sprocket condition. Chain adjustment.

7. Front / rear brake functioning and rear brake lamp switch adjustment.

8. Front fork for any abnormality.

9. Spark plug gap and condition of spark plug.

10. Air filter element cleanliness.

11. Lubrication of all items mentioned in the periodic maintenance schedule.

12. Intactness of EVAP system hoses and canister.

13. Any other job as necessary.

14. Have your vehicle checked at any TVS Motor Company Authorised Main Dealer or Authorised Dealer.



Caution

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

EXPRESS SERVICE



Drive In.



Drive Out.

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

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

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





Busy Life? Easy Servicing!

Now, service your bike anywhere, anytime.

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

Contact your nearest Dealership for details.[†]

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



TVS 
**geared
to care**

*Pickup &
Drop*

Busy Life? Easy Servicing!

Now, service your bike anywhere, anytime.

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

Contact your nearest Dealership for details.[†]

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

WARRANTY AND SERVICES



TVS Motor Company Limited ('the Company') give this warranty with respect to the TVS StaR City+ manufactured by the Company.

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

During 5 Years from the date of purchase or during the first 60,000 km of run for the vehicle in the hands of original retail purchaser, whichever is earlier, the parts of the vehicle covered under warranty which prove to the satisfaction of the Company to have a manufacturing defect will be repaired or replaced free of cost.

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

Limitations of Warranty:

This warranty shall not apply to following condition:

1. Any natural wear and tear, including without limitation, aging.
2. Warranty claims on proprietary items such as tyres, tubes and batteries etc., should be preferred by the user directly on the respective manufacturer, as per their warranty terms and the Company shall not be liable in any manner in respect to the same.
3. Parts repaired or replaced under this warranty are warranted only throughout the remainder of the original warranty period.



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

Warning

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

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

Incase of EXIDE battery, call :- 1800 103 5454

Incase of AMCO battery, call :- 1800 425 0096

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

Incase of AMARON battery, call :- 1800 425 5858

List of parts not covered under warranty

ITEM	WHAT TO CHECK FOR
Normal Maintenance operations	Engine tune-up, decarbonizing, fuel system cleaning, oil changes, head light focusing, fastener retightening, ignition timing, clutch and brakes as well as other normal adjustments.
Wear and tear items	Chain, sprockets, clutch and brake linings, fasteners, shims, washers, oil seals, gaskets, O' rings and spokes etc.
Electrical	Bulbs , fuse, DRL
Service Maintenance Parts	Oil filters, spark plug, air filter, oil and brake fluid
Rubber, rexine and plastic items	All hoses , pipes and plastic aesthetics
Proprietary Items	Battery, tyres and tubes (the warranty terms are subject to our agreement with proprietary OEM)
Others Factors	Parts of the vehicle getting affected due to atmospheric effect / environmental factors (rusting, paint peel off etc.). However, depending on the vehicle usage condition, warranty would be accepted up to 2 years from the date of purchase.
	Parts of the vehicle which have been tampered with, altered, repaired or replaced by persons not authorised by the Company and which in the sole judgement of the Company affect the performance of the vehicle.
	Parts which are used in conjunction with parts not made or recommended by the Company.

List of parts not covered under warranty

ITEM	WHAT TO CHECK FOR
Others Factors	Parts suffering damage or resultant damage by accident, misuse, negligent treatment, use of bad quality lubricants or impure fuel or by omission to follow the guidance and instructions contained in this owner's manual.
	Vehicles on which engine number or chassis number is deleted, defaced or altered. Vehicles on which any warranty service including scheduled paid service is not availed when it falls due (at TVS Motor Company Authorised Main Dealer / Authorised Dealer).
	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. Vehicles affected by natural calamities like flood, earthquake, tsunami, storm etc., If the vehicle has been used for commercial purpose like taxi or used for rental or hiring or any other purpose other than regular personal transportation.

SERVICE INFORMATION

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

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

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

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

Service Department
TVS MOTOR COMPANY LIMITED
P.O.Box No. 4, Harita, Hosur - 635 109,
TAMILNADU, INDIA.
Toll free no. :- 1800-258-7111



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 : 53.5 mm
Stroke : 48.8 mm
Piston displacement : 109.7 cc
Compression ratio : 10.0 : 1
Air filter : Paper filter element
Lubrication system : Wet sump lubrication
Maximum power in kW : 6.103 kW @ 7350 rpm
Maximum torque in Nm : 8.7 Nm @ 4500 rpm
Maximum speed : Around 90 km/h
Engine idling rpm : 1500 $\pm$ 150 rpm (under warm condition)
Starting system : Electric starter / Kick starter
Emission norms : BS VI

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 : 2.857

CHASSIS

Overall length	: 1984 mm
Overall width	: 750 mm
Overall height	: 1079 mm
Ground clearance	: 180 mm (unladen)
Wheel base	: 1257 mm
Kerb weight	: 116 kg

(with tool kit & 90% of fuel)

Pay load	: 130 kg
Maximum laden weight	: 246 kg
Steering angle	: 88°
Caster angle	: 25.6°
Frame	: Single cradle tubular frame
Front suspension	: Telescopic oil damped
Rear suspension	: 5 step adjustable hydraulic shocks with swing arm
Trail length	: 83 mm

TYRE

Front tyre	: 2.75 - 17 41P 4PR (tubeless)
Rear tyre	: 3.00 - 17 50P 6PR (tubeless)

Tyre pressure

Front	: 1.75 kg/cm ² (25 PSI)
Rear - Solo	: 2.25 kg/cm ² (32 PSI)
Rear - Pillion	: 2.50 kg/cm ² (36 PSI)

BRAKES

Front	: Hand operated, 130 mm dia
Rear	: Foot operated, 110 mm dia

ELECTRICAL

Ignition system	: ECU - Electronic Control Unit
Spark plug	: BOSCH UR5KCW
Spark plug gap	: 0.9 ~ 1.0 mm
Magneto	: 12V, 160W (fly wheel magneto)
Battery	: 12V, 4 Ah / 5 Ah (MF) Maintenance free battery
Head lamp bulb	: LED, 11W
Tail / brake lamp bulb	: 12V, 5/21W x 1
Turn signal lamps bulb	: 12V, 10W x 4
Number plate lamp	: 12V, 4W x 1
Instrument panel	: LCD / LED indicators
Horn	: 12V, DC
Fuse	: 15A x 1 & 10A x 2 (Blade type)

CAPACITIES

Fuel tank including reserve *	: 10 liter
Fuel	: BS VI / Unleaded Petrol
Engine cum transmission oil	: TVS TRU4 PREMIUM oil (SAE 10W30 SL-JASO MA2)
Engine cum transmission oil capacity	: 1000 ml
Front fork oil grade	: IOC / Castrol teleshockab oil
Front fork oil capacity	: 155 ± 2 ml / leg (GIL make) 157 ± 2 ml / 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 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:







TVS MOTOR COMPANY

TVS Motor Company Limited, P.B. No. 4, Harita, Hosur - 635 109, Tamil Nadu, India.

Telephone: +91(4344)276780 Fax: +91(4344)277321/276878

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