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# **Owner's Manual**

ADX125

**TEA12T1CN-EU SERIES** 



# **1.CONTENTS**

1.	Contents	1
2.	Control location	3
3.	Before riding	4
4.	Safe riding	4
5.	Driving	5
6.	Use genuine spare parts	5
7.	· · · · · · · · · · · · · · · · · · ·	
	Gauges	6
	Operation of ignition switch	9
	Operation of steering handle lock switch	9
	Operation of fuel tank cap switch	9
	Description of anti theft intelligent lock(for Intelligent lock model )	9
	Use of buttons	
	Storage box	13
	Safety helmet hook	14
	Fuel tank cap	14
	Brake	14
8.	Important points and cautions for starting engine	15
9.	The best way to drive off	16
	The control of throttle valve handle	16
	Parking method	16
10	Inspection and maintenance before riding	17
	Routine inspection	17
	Engine oil inspection and change	17
	Fuel inspection	18
	Transmission oil inspection and change	18
	Inspection and adjustment of brake free play	19
	Disc brake inspection (depending on models)	20
	Throttle valve handle clearance adjustment	21
	Inspection and maintenance of battery	21
	Tire inspection	22
	Steering handle front shock absorbers inspection	22
	Checking and changing fuses	23
	Checking the turn signal lights and horn	23
	Checking the front and rear lights	
	Checking the brake light	23

# **1.CONTENTS**

Checking for fuel leakage	. 24
Checking the lubrication of body's various mechanisms	. 24
Checking the spark plug	. 24
Checking the air cleaner	. 24
11. When there is an abnormal condition or a trouble	. 25
Diagnosis when engine does not start	. 25
12. Suggestions on engine fuel	. 25
13. Transmission oil	. 25
14. Cautions for riding motorcycle	. 26
15. Anti-lock brake system	27
TCS system	27
16. Cooling system inspection	28
17. Periodical maintenance schedule	29
18. Specification	. 30

# **2.CONTROL LOCATION** starter switch/ Hazard warning switch Storage Box Tail/Stop light High & low beam/turn signal/horn switch Frame number Fuel tank cap Air cleaner Side stand Main stand Front brake level-Ignition switch Rear brake level Front turn signal light - Exhaust Muffler

## 3.BEFORE RIDING

This manual describes the correct usage of this motorcycle including safety riding, simple inspection methods and so on.

For a more comfortable and safety riding, please read this manual carefully.

For your benefit, please ask your SYM dealer the operating manual and carefully read the following:

- · Correct use of the motorcycle.
- · Pre-delivery inspection and maintenance.

#### Thank you very much for your patronage

In order to maximize your motorcycle's performance, a periodical inspection and maintenance should be completely carried out.

We recommend that after riding your new motorcycle for the first 300 kilometers, you should take your motorcycle to the original dealer for an initial inspection, and to have your motorcycle inspected periodically every 1000 kilometers thereafter.

In case the motorcycle's specifications and construction are modified and different from the photos
and diagrams on the owner's manual / catalogues, the specifications and construction of the actual
motorcycle shall prevail.

## 4. SAFE RIDING

It is very important to be relaxed and clothe properly when driving, observe traffic regulations, do not rush, always drive carefully and relaxed.

Usually, most people would ride their newly bought motorcycle very carefully, but after they became familiar with their motorcycles, they tended to become reckless which may result in an accident.

## ← To remind you:

- Please wear a safety helmet, and properly tighten the chin belt when riding a motorcycle.
- Clothes with open or loose cuffs may be blown by wind and cause the cuffs to get caught on the steering handle and thus affects riding safety.
- · So, put on clothes with tight sleeves.
- · Hold the steering handle by both hands when riding. Never ride with only one hand.
- · Observe the speed limit.
- Wear suitable low-heel shoes.
- Perform periodical maintenance and inspection in accordance with the schedule.

# ⚠ WARNING!!

- To avoid getting burned by exhaust pipe when taking a passenger. Make sure your passenger has put his/her feet on the pedals.
- After running, the exhaust pipe is very hot, be careful not to get burned when conducting an
  inspection or maintenance.
- After running, the exhaust pipe is very hot, select a suitable location to park your motorcycle to avoid others getting burned by the exhaust pipe.

# **⚠** CAUTION:

Modified motorcycle will affect its structure or performance, and cause poor engine operation or exhaust noise, which will result in shortening the motorcycle's service life.

Besides, modification is illegal and does not conform to the original design and specifications. A modified motorcycle will not be covered by warranty; therefore, do not modify your motorcycle at will.

### **5.DRIVING**

- Keep the related parts of your body such as arms, palms, lumbar, and toes relax and ride with the most comfortable posture in order to be able to react quickly whenever it is necessary.
- Rider's posture will greatly affect riding safety. Always keep your body's gravity in the center of the saddle, if your body's gravity is on the rear part of saddle, the front wheel load will be reduced, and this will cause the steering handle shaking. It is dangerous to ride a motorcycle with an unstable handle.
- It will be much easier to make a turn if rider inclines his body inward when turning. On the other hand, the rider will feel unstable if his body and the motorcycle do not incline.
- The motorcycle is hard to control on a bumpy, unleveled, unpaved road, try to know the road conditions in advance, slow down and use your shoulder's force to control the handle.
- Suggestion: Do not load objects on the front pedals unnecessarily, to avoid affecting the riding safety
  and the operation of steering handle.

# **↑** CAUTION:

The rider's feeling on the handle is slightly different with a load or without a load.

Overload may cause the handle to swing and affects the riding safety.

Therefore, do not overload your motorcycle.

# **⚠** CAUTION:

- Do not place flammable materials such as rags between the body side cover and engine to avoid components damaging by fire.
- Do not load objects on areas not specified for loading to avoid damage.

#### SUGGESTION

To maximize the motorcycle's performance and prolong its service life:

The first month or first 1000km is the wear- in period for the engine and components.

## **6. USE GENUINE SPARE PARTS**

In order to maintain the motorcycle's best performance, each part's quality, material, and machined precision must conform with the design requirements. "SYM Genuine Spare Parts" were made from the same high quality materials used for the original motorcycle. No parts would be sold to the market until they could meet the designed specifications through sophisticated engineering and stringent quality control. Therefore, it is necessary to purchase "SYM Genuine Spare Parts" from "SYM Authorized Dealers" when replacing spare parts. If you buy cheap or fake substitute parts from the market, no guarantee can be provided either for the quality or durability. Also, it may result in unexpected troubles and lower the motorcycle's performance.

 Always use SYM Genuine Spare Parts to keep your motorcycles pure blood and to ensure its long service life.

## 7.USE OF EACH COMPONENT

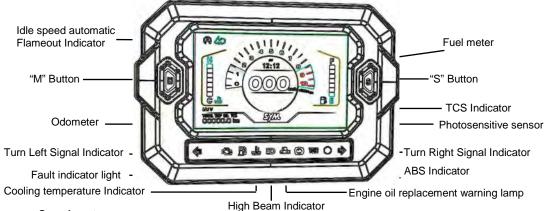
(The following is SYM 4 stroke air-cooling scooter's basic operation, and they could vary from different individual models. Please consult the end of this manual.)

Turn on the idle speed flameout system conditions:

gauges light signal status		Start mode		
<b>(A)</b>	The indicator light is on for two seconds (gauges self-test) Then it goes out.		Pull the brake & press the start button	
<b>(A)</b>	The indicator flashes	Turn the throttle handle or pull the brake & press the start button		

#### §GAUGES §

The panel figure for speedometer may vary from model to model, but the location usually are the same.



## Speedometer :

Indicates driving speed.

#### · Odometer:

Indicates total accumulated distance traveled.

#### · High Beam Indicator:

This indicator comes on with high beam headlight is turned on.

#### Turn (left/right) Signal Indicator :

The left or right Indicator will be flashing according to the operated directions of turn signal light switch when it is turned on.

#### ABS indicator light:

Normally the ABS indicator light goes on when the ignition switch is turned on and goes off shortly after the scooter starts moving.

The ABS (Anti-lock Brake System) indicator light goes on when the ignition switch is turned on and goes
off shortly after the scooter starts moving. If the ABS is normal, it stays off. If something is wrong with the
ABS, the indicator goes on and stays on. When the indicator light is on, the ABS does not function but if
the ABS fails, the conventional brake system will still work normally.

#### · Fault indicator light

If there is something wrong with the ECU, the warning light will light all the time.

#### Cooling temperature indicator:

Indicates the engine cooling water temperature, engine cooling water temperature indicator if light, should check the cooling water is sufficient and the fan motor is running

#### · Low fuel load warning light:

When there is a little fuel inside the tank, the warning light will be on.

#### · Engine oil change warning lamp:

It is used to indicate the oil exchange time, with lights, when the vehicle was driven about 1000 kilometers, indicator light will light up, warn the users to replace the oil. After finish oil change ,Long press "S" button  $2\pm0.5$  seconds in "OIL" mode, then the indicator light will go out.

#### · Fuel Meter:

The pointer in this meter shows how much fuel remains in the tank. The pointer stays in "E" position when key switch is turned to "OFF"

#### Idle speed automatic flameout Indicator:

- 1. When the switch is turned to \( \hat{\text{\$N\$}} \) ", the engine idle automatic flameout mode is turned on. When the switch is turned to "OFF", the system will be turned off.
- 3. When the engine is stationary at normal idle speed and after the engine self-extinguish, " A " The indicator light flashes continuously. Select to turn the accelerator or press the electric start switch and pull up the brake lever to restart the engine.
- 4. When riding " The indicator lamp is in the standby state of normally dark mode.
- 5. If it cannot be started by turning the throttle after automatic flameout, it is recommended to turn off the system and for inspection immediately.

#### TCS Indicator:

When the motorcycle is KEY ON, the information output from the gauges to the ECU enables the TCS function, Read TCS indicator ID information after gauges self inspection. After the TCS indicator is off (when the TCS has no fault). Press the "M" button to switch the TCS switch mode (TCS is displayed at the gauges mileage) . Long press the "S" button for more than 2 seconds, Perform ON or OFF switching. When the TCS is turned on, the indicator is off, and when the TCS is turned off, the indicator is on.

**Note**: After switching TCS ON or OFF, it is required to wait for 2 seconds before switching again (it is not allowed to switch continuously and prevent the switch from being touched by mistake. When the vehicle speed is greater than 5KM/H, the instrument cannot switch ON or OFF.

### Switching kilometers and miles:

Click "S" button to select metric system or imperial system circularly, and the selection will take effect. Long press "M" button to return to the previous level.

## · Trip reset:

In TRIP display status ,Press "S" button 2±0.5 seconds ,can change the public mile display.

#### • TFT Function Operating Instructions:

#### 1.UI interface display:

Daytime mode: black characters on white background (control photosensitive sensor)







Figure 1 Figure 2 Figure 3

Night-time mode: white characters on black background (control photosensitive sensor)







Figure 3

Figure 3
2.Button Features Description:

Figure 3

- 1. In TOTAL mode, long press "S" button for 2 seconds to enter the setting page.
- 2. Click "M" button to cycle through the selection
- 3. Click "S" button to enter the setting option, and select it to take effect
- 4. Long press the "M" button to return to the previous level

#### 3.Interface switching:

- 1.Click "M" button to cycle through the selection
- 2.Click "S" button to enter the setting option, and select it to take effect
- 3.Long press the "M" button to return to the previous

#### 4. Clock Setting:

- 1.Click "M" button to select AM or PM circularly
- Click "S" button to switch to the hour position, clock Enter the adjustable state and click "M" button to accumulate
- Click "S" button again to move to the minute position. The minute will enter the adjustable state, and click "M" button to accumulate
- 4. Long press the "M" button to return to the previous.

#### 5. Unit Setting:

- 1.Enter the page setup and click "S" button to cycle through the unit setup(km/h,mph)
- 2. Long press the "M" button to return to the previous.

#### 6. Language Setting:

- Enter the page setting, click "S" button key to cycle selection to time/voltage switching
- 2. Long press the "M" button to return to the previous

#### 7. Vehicle information:

- 1. Enter the page setting, click "S" button to cycle to select the vehicle information.
- 2. Long press the "M" button to return to the previous













## §OPERATION OF IGNITION SWITCH §

#### **IGNITION SWITCH**







Smart key(remove the key after pressing the switch)

## §DESCRIPTION OF ANTI THEFT INTELLIGENT LOCK(for Intelligent lock model )§

### 1.Set security: When motorcycle ignition lock is off

1.Sound and light warning: Press the remote control once, the horn will sound a warning tone, the direction light will flash once. and the lock will be locked. After 3 seconds, it will enter the sound and light warning state.

Silent alert: Press the mute key of the remote control once, the horn will sound, the direction light will flash once the lock will be locked, and it will enter the silent alert state after 3 seconds.

#### 2.Remove anti-theft and automatic recovery alert

Press the release key of the remote control, the horn will sound twice, the direction light will flash twice the lock will be unlocked, and the alert will be released. (Normal unlocking) Remove anti-theft and automatic recovery alert.

If the main switch is not turned on or the vehicle does not sense vibration within 20 seconds, the alarm system will be regarded as false release and will automatically return to the original anti-theft alert state. (silent alert or sound and light waning) (If you press the unlock key by mistake, it will be locked automatically)

• careful: Press the release key twice in 2 seconds to completely release the alarm, and it will not automatically return to the alert state.

#### 3. Alert not set

In the released state: stop and turn off the engine (turn off the main switch). If the anti-theft warning is not set after 5 seconds. the direction light will flash three times. 30 seconds automatic locking and Enter silent alert. (If you forget to lock the engine, you will give an alarm)

#### 4. Automatic lock

When the main switch is off : When the main switch is turned from off to lock, the lock will be locked automatically after one second, and then it will enter the sound and light warning state after three seconds. (The handle locks automatically)

In lock state : Press the release key of the remote control once, and if it does not exit lock within 15 seconds, it will automatically return to the alert state.(If you press the unlock key by mistake, it will lock automatically).

In lock state, Press the release key twice in 2 seconds. If it cannot be removed completely, it will automatically return to the original anti-theft alert state (sound and light warning state or silent alert state)

In the released state, When the main switch is turned from off to lock, and it will lock automatically after 15 seconds, and enter the silent alert state, Press the release key twice in 2 seconds to completely release the alarm, and it will not automatically return to the alert state.

## 1. Malicious operation of solenoid valve protection

In 10 seconds, if the solenoid valve is operated continuously for 10 times, it is judged as malicious operation, and the system will automatically protect it. (In the protection state, press the remote control

host to respond normally, but the lock solenoid valve does not respond (does not act). After 15 seconds, it will automatically exit the solenoid valve protection and return to normal.

#### 2. Alarm pause

When the vehicle is in the vibration alarm state: the alarm can be suspended by short pressing the fortification key, release key or mute key, and the original fortification state remains unchanged. (Press any key to remove the alarm without changing the alarm state)

#### 3. Alarm mode

trigger Alert state	First vibration trigger	Vibrate again in 15 seconds
sound and light warning state	alarm three times	Acousto-optic alarm for 15 seconds (after 8 consecutive cycles, enter the sound and light warning state)
silent alert state	No alarm	No alarm

#### 4. LED status

state	LED status
Fortification	Flash 4 times every 1.5 seconds, and turn off after 5 seconds
relieve	Flash once every 1 second and turn off after 5 seconds
Main switch ON	Normally on for 5 seconds and then off
alarm	Flashing with alarm

#### 5. PKE UNLOCK

On alert: When the main switch is turned from off to lock , Press the PKE wake-up key of the lock handle (or when the body vibration is detected) to wake up PKE, When the remote control is within 1m-3m, the lock is unlocked and the alert is released.

Press the PKE wake-up key of the lock handle (or when body vibration is detected) at off gear. If ACC is not opened within 20 seconds after PKE unlocking, it will automatically return to the original anti-theft alert state (sound light alert or silent alert).

Press the PKE wake-up key of the lock handle in lock gear (or detect the vibration of the car body). If the PKE does not exit the lock gear within 15 seconds after unlocking, it will automatically return to the original anti-theft alert state (sound light alert or silent alert) •

After lock is pressed and PKE wake-up key (or when body vibration is detected), PKE will turn to off after unlocking, and lock automatically for 15 seconds, enter silent warning, and press release key twice in 2 seconds in 2 seconds to completely release.

#### 10: IMMO Induction unlocking

On alert: When the main switch is turned from off to lock, After pressing the PKE wake-up key of the lock handle, the back of the remote control will be within 1cm of the sensing area of the IMMO antenna within 10 seconds to automatically unlock. IMMO. If the sensor is still in lock or off after unlocking, it will automatically return to the original anti-theft alert state ( sound light alert or silent alert)

(When the remote control battery is too low to use, you can use this function to unlock)

### 11: Malicious operation of PKE protection

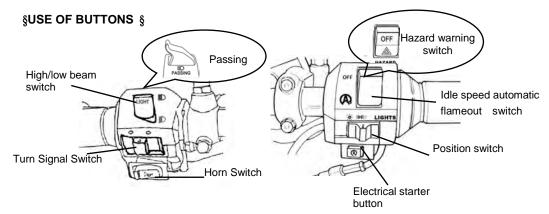
After continuously pressing the PKE wake-up key for 10 times within 15 seconds (the 10th time of forced locking and entering • the silent alert), it is determined as malicious operation, and the system automatically enters the PKE protection state for 15seconds. In the protection state, press the remote control host to respond normally, but the lock operation and PKE function are invalid. After 15 seconds, it will automatically exit the protection and return to normal.

# $oldsymbol{\Lambda}$ CAUTION :

- 1. When using the spare key, insert and remove the key in the same gear •
- 2. When leaving the vehicle, make sure that the main switch is turned to "lock"
- Please keep the spare key "key code" aluminum plate properly. If the key is lost, you can order a
  new spare key from the dealer with the "key code". If the key is not available, it may cause your
  car to fail to start.
- Ensure the battery capacity ≥ 8ah.
- 5. If the vehicle is not riding for a long time, the battery must be disconnected and the battery should be charged and maintained every month.
- 6. The effective distance of the remote control button must be more than or equal to 20 meters. Please avoid touching the remote controller within the effective distance to unlock the vehicle.
- When the operating distance of the remote control is less than 10 meters, pay attention to replace
  the built-in battery of the remote control, and the battery specification must be consistent with sym
  factory specification.
- 8. Pay attention not to install other electronic components not approved by SCN, so as to avoid frequent abnormal power loss of vehicle battery.
- 9. Please do not directly expose the remote controller to the sun and rain.
- 10. In noisy and vibration environment, it is necessary to consider whether fortification is necessary to prevent battery power loss caused by long-time alarm.
- 11. The remote control battery is not in the three packs.
- 12. If the user disassembles the machine by himself or is damaged artificially, it is not covered by the warranty.

# **⚠** CAUTION:

- Never operate the ignition switch key when the motorcycle is running. To turn the ignition switch
  to "OFF" and "LOCK" position will shut off the electrical system and that may result in a dangerous
  accident. Therefore, the ignition switch can only be turned off after the motorcycle has been
  completely stopped.
- Always remove the key and be sure to take the key away with you after locking the steering handle before leaving your motorcycle.
- If ignition switch remains in the "ON" position for a prolonged period after the engine has been stopped, the battery's capacity will be reduced and this may affect the engine's start ability.
- Make sure to take the key away with you before you lock your seat.



#### Electrical starter button



This is a starting motor button (switch) for engine starting.

With the main switch "on", press this button while holding the front or rear brake lever will start the engine.

# **△** CAUTION:

- Release this button immediately after engine has been starter, and never press the button again
  to avoid damaging the engine.
- This mechanism is a safety design. The engine can only be started after the front or rear brake lever (pedal) has been applied.

#### · High/low beam switch

This is the high and low beam of headlight switching switch. Press this switch to switch between high and beams.



This is for high beam.



This is for low beam.(please turn to low beam riding in city.)

#### Hazard warning switch

When the switch is turned to this position as the engine is being started, the front and rear turn signal lights will flash.

#### Idle speed automatic flameout switch

When the switch is turned to " M ", the engine idle automatic flameout mode is turned on. When the switch is turned to "OFF", the system will be turned off.

## passing switch

#### Passing

Turn ignition switch to the "ON" position and press this button down. Then, the high beam of headlight will come on immediately to warn the driver of the vehicle ahead that you intend to overtake him/her.(For overtake, high beam indicator will come on at this time ) This button will return to original position after releasing

# **⚠** CAUTION:

- Be sure to remove the key after the seat has been locked.
- Do not put the key inside the storage box after unlocking to avoid the key being locked inside the storage box when the seat is pressed down automatically.

#### **Horn Switch**



Press this button down when ignition switch is in the "ON" position, the horn will sound.

#### Turn Signal Switch

Turn signal lights are used when turning left/right or changing lane.

Turn ignition switch to the "ON" position, and slide the turn signal switch to left or right . Then, the turn signal lights will flash.

To release, simply return the turn signal light button to the original position.



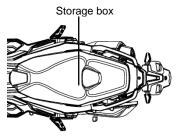
Right-side turn signal light flashing means you intend to make a right turn.



Left-side turn signal light flashing means you intend to make a left turn.

#### §STORAGE BOX§

- · This box is located under the seat.
- · Luggage Box Capacity:22L.
- · Do not store valuables in the box.
- Make sure that the seat has been locked completely after it was pressed down.
- Take out valuables before washing to avoid wetting these objects.
- Do not place thermal sensitive objects in the box because of engine's heat and high temperature.



#### **§SAFETY HELMET HOOK§**

 Stop the motorcycle, and hook the safety helmet chin belt the hook.

# **⚠** CAUTION:

 Do not hang the safety helmet onto this hook when riding to avoid damaging motorcycle and loosing safety helmet's function.

## §FUEL TANK CAP§

- 1. Insert the key into the ignition switch and rotate to the right ,the fuel tank cap will popup automatically.
- 2. Do not fill above the fuel upper limit when refueling.
- 3. Align the " $\triangle$ " mark on the cap with the " $\triangle$ " mark on the fuel tank, then depress the fuel cap clockwise .

## **↑** CAUTION:

- Main stand should be put down on the ground, engine should be shut off and flames should be strictly prohibited to ensure safety when refueling.
- Do not fill above fuel upper limit when refueling. Otherwise, fuel will flow out through a hole on the
  cap that may damage the body's painting, in serious cases; it serious cases; it may cause a fire to
  burn down the motorcycle.
- · Make sure the cap has been tightened properly.

#### §BRAKE§

- Avoid unnecessary sudden braking.
- Use front and rear wheel brakes simultaneously when braking.
- Avoid brake continuously for a long period of time because that may overheat the brakes and reduce its braking efficiency.
- Slow down and brake early when riding in rainy days on slippery roads. Never apply the brakes suddenly to prevent skidding and falling.
- Using only the front brake or the rear brake increases the risk of falling because the scooter is tend to pulled to one side.
- Even in motorcycles equipped with ABS, braking during cornering may cause wheel slip. When
  turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all.
  Reduce your speed before you get into the corner

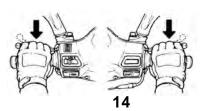
### **⟨Engine Brake⟩**

Return the throttle valve handle back to its original position, and apply engine brake.

It is necessary to apply brake both for front wheel and for rear wheel intermittently when riding on a long or stiff slope. ABS

For Rear Wheel

For Front Wheel

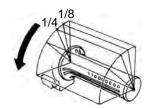


## 8.IMPORTANT POINTS AND CAUTIONS FOR STARTING ENGINE

# **⚠** CAUTION:

- Please check the oil and fuel volume are adequate or not before starting the engine.
- To start the engine the main parking stand must be firmly on the ground and the brake is applied on the rear wheel to prevent the motorcycle from moving forward suddenly.
- 1. Turn ignition switch key to the "ON" position.
- 2. Apply hand rear wheel brake.
- 3.Do not accelerate, press starter button when the brake is applied.





## [We care for you! Before drive off, keep the hand brake applied on the rear wheel.]

## A CAUTION:

- If engine can not be started after press the kick starter arm for 3~5 times, turn the throttle valve handle 1/8~1/4 turns, and then press the kick starter arm again for an ease start.
- In order to avoid damaging the starter motor, please do not press the starter button continuously over 15 seconds.
- If engine still can not be started after pressing starter button over 15 times, stop and wait for 10 seconds before start it again.
- It is harder to get the engine started after the motorcycle has been left idle for a long time or after
  refueling only after the fuel has been depleted. Then, it is necessary to press starting lever or
  starter button several times, and keep the throttle valve handle at the close position to start the
  engine.
- It may need several minutes to warm up engine if it is a cold start.
- Exhaust contains harmful gases (CO), therefore please start the engine at a well ventilated place.

### [When starting engine with starting lever.]

- After step 1~3 is completed, press the kick starter forcefully by foot with the throttle valve handle at the close position.
- If engine is cold and it is difficult to start, rotating the throttle valve 1/8~1/4 turns will make the start
  easier.
- Put the kick starter back to its original position after the engine has been started.

# A CAUTION:

- Firmly support the motorcycle with the main parking stand before starting the engine with the kick starter arm
- Starter engine with the kick starter arm occasionally to prevent it from loosing its function because
  of unused for a long time.

#### 9.THE BEST WAY TO DRIVE OFF

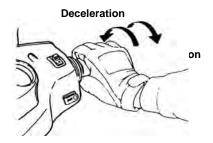
• turn on the turn signal light before moving, and make sure no vehicle is coming from behind. Then, drive off.

## §THE CONTROL OF THROTTLE VALVE HANDLE §

Acceleration: To increase speed. When riding on an inclined road, turn the throttle valve handle slowly

to allow the engine to output its power.

**Deceleration**: To decrease speed.



## §PARKING METHOD §

- · when approaching the parking lot:
- 1. Turn on the turn signal light early, and pay attention to the vehicles in front, from rear, left and right, then take the inner lane and approach slowly.
- 2. Return the throttle valve handle back to its original position, and apply brakes in advance. (Brake light comes on when braking to warn drivers of vehicles behind.)
- · When stop completely:
- 3. Press the turn signal switch back to its original position, and turn the ignition switch key to the "OFF" position to shut off the engine.
- 4. Get off the motorcycle from left side after the engine has been stopped, and select a parking place where the motorcycle will not interfere with traffic and the ground is level, then put down motorcycle's main parking stand.
- 5. Hold the steering handle with your left hand, and hold down the front end of saddle or hold the parking handle on the lower-left side of saddle with your right hand.
- 6. Press the main parking stand with your right foot, put down the main parking stand firmly on the ground.

**To remind you:** Lock the steering handle and remove the key after parking to prevent the motorcycle from being stolen.



### CAUTION:

• Park your motorcycle at a safe place where it will not interfere with traffic.

## 10.INSPECTION AND MAINTENANCE BEFORE RIDING

(Please refer to the components location diagram for the following components.)

## §ROUTINE INSPECTION §

Check Items		Check Key Points			
Engine Oil		Is there enough engine oil?			
Fuel		Is it enough? Is it Octane 90 or above			
Brake	Front	Braking condition? (Brake lever free play: 10~20mm)			
	Rear	Braking condition? (Brake lever free play: 10~20mm)			
Tires	Front	Is tire pressure normal? (Standard: 1.8kg/cm²)			
	Rear	Is tire pressure normal? (Standard: 2.0 kg/cm² for 1 person, 2.3 kg/cm² for 2 persons)			
Steering Handle		Does the handle vibrate abnormally or is difficult to turn?			
Speedometer, lights, and rearview mirror		Is it operated properly? Do lights come on? Can it be seen clearly from behind?			
Tightness of Main Components		Are screws, nuts loosen?			
Abnormal Points		Do the previous troubles still exist?			



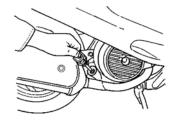
#### CAUTION:

If any problem founded during routine inspection, correct the problem before using the motorcycle again, have your motorcycle checked and repaired by the "SYM dealer or authorized service personnel" if necessary.

#### **§ENGINE OIL INSPECTION AND CHANGE §**

#### INSPECTION:

- 1. Use the main parking stand to support the motorcycle on a level ground, remove the dipstick after engine stopped for 3~5 minutes. Wipe oil off the dipstick and then insert it into the guide tube again (Do not rotate it.)
- 2. Remove the dipstick and check whether oil level is in between the upper and lower marks.
- Add oil to upper limit if oil is under the lower limit. (Check cylinder, crankcase...etc for leakage.)



#### **OIL CHANGE:**

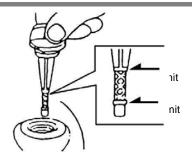
- Change engine oil after the first 300km, and change the engine oil every 5000km thereafter.
- In order to maintain the engine's maximum performance, check whether the engine oil is enough every 1000km. Add oil to upper limit if the engine oil has been found to be inadequate.
- Engine Oil: Use SL/CFSAE 10W-30 grade or better engine oil. Otherwise, damage will not be covered by warranty.
- Oil Capacity: 1.05Liter (1 liters for routine change).
- Use SAE 5W-40 when outside temperature is below 0°C.

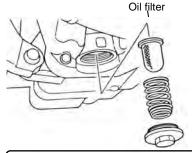
#### [Oil Filter Cleaning]

The oil filter nut assembly of the element, and remove the element. Remove the foreign materials from the element by using a gasoline or air spraying gun.

# **⚠** WARNING:

- Oil level will not be correct when checking the oil level with the motorcycle parked on an unleveled ground or immediately after the engine stopped.
- Engine and exhaust pipe are hot right after engine stopped. Pay special attention not to get burned when checking or replacing engine oil.
- If the oil lever approaches lower limit again after refilled, check the engine for leaks and refill it again.
- Keep away from spark and flames when refilling the oil.





#### Avoid oil emulsification

- · Warming up at regular intervals
- · Warm car runs in a minute every time
- At least run 10 km once a month
- Replace oil when 3 months or 3000km

# §FUEL INSPECTION§

- Turn main switch key to "ON" position, and check fuel gauge's needle range to make sure there is
  enough amount of fuel in the fuel tank.
- This motorcycle's engine is designed for using the unleaded fuel of Octane 90 or above.
- Firmly secure the main stand on the ground, shut off the engine and keep flames away from the
  motorcycle when refueling.
- · Do not fill above fuel upper limit lever when refueling.
- Make sure the fuel tank cap had been tighten properly.

# §TRANSMISSION OIL INSPECTION AND CHANGE§ INSPECTION:

Use the main stand to support the motorcycle on a level ground, after the engine stops, wait for 3~5 minutes. Remove the transmission oil infusion bolt, put a measuring glass under the drain bolt, and remove the drain bolt. Let the oil flows into measuring glass and check for decreased or not. (at disassembly:110c.c./at change:100c.c.).

#### OIL REPLACEMENT:

- stop the engine and use the main stand to support your motorcycle on a lever ground. Remove the infusion bolt and drain bolt, drain out the oil.
- Install the drain bolt and tighten it. Fill new transmission oil (100c.c.), and install the infusion bolt and tighten it. (Make sure that bolts are tightened and check that there's no leakage.)
- Recommend Oil: Genuine SYM HYPOLD GEAR OIL (SAE 85W-140).

#### §INSPECTION AND ADJUSTMENT OF BRAKE FREE PLAY§

INSPECTION: (Brake lever free play must checked with the engine shut off.)

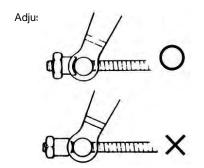
- Brake lever and pedal free play for front and rear wheels.
- ◆If checking the hand-braking lever for front wheels, its free play (the stroke of hand-braking lever from no braking to initial braking) should be 10~20mm. It is abnormal if the feel is spongy when holding the hand-braking lever forcefully.





#### Adjustment: (Drum type)

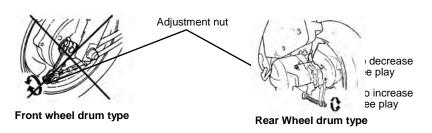
The indentation of brake adjustment nut must be aligned with the pin. (see below figure)



## A CAUTION:

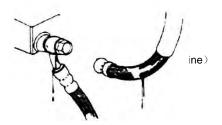
When free play is between 10~20 mm, check brake indicators of front and rear wheels. If the arrow on the brake arm aligned with the "△" marked on the brake disk, that means the brake lining has been excessively worn, and must be replaced immediately.

- Turn the adjustment nut on brake arm of front and rear wheels to adjust the free play of hand-brake
- Hold the hand-brake levers after adjusting with both hands until there is effective brake feeling.
- Measure the free play with a ruler.



## **§DISK BRAKE INSPECTION§**

Visual check brake lines for leakage, or damage, check brake lines connections for looseness using a
wrench or similar tool, and check whether steering handle vibration in driving, or any parts' interference
may have damage the brake lines. If so, bring your motorcycle to your SYM dealer for repairing or
service.



(Checking front brake lining)

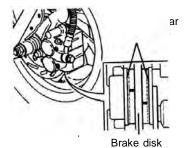
## **A** CAUTION:

 Please drive your motorcycle on a dry road surface slowly and operate front and rear brakes in order to find out if there is any malfunction so as to ensure the motorcycle is at optimum condition and safe ride.

the brake disk.

#### (Checking oil quantity in brake oil reservoir)

 Park the motorcycle on a lever ground, and check if fluid lever is under the "LOWER" mark. Recommended Brake Fluid: WELL RUN BRAKE OIL (DOT 3).



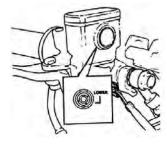
check the brake from behind the brake caliper.

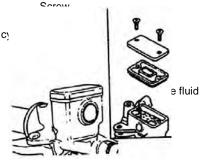
The brake pad must be replaced with new

lining when the brake pad wear limit reaches

#### (Replenishment of front wheel brake fluid)

- Loosen the screws and remove the master cylinder cover.
- Wipe clean foreign materials, dirt around the reservoir, being careful not to let foreign materials fall into the reservoir.
- 3. Remove the diaphragm plate and the diaphragm.
- 4. Add brake fluid to upper lever.
- 5.Install the diaphragm plate and the diaphragm, and install the master cylinder cover.
- please note the diaphragm direction, and do not let foreign materials fall into the reservoir. And tighten the master cylinder cover securely.





# A CAUTION:

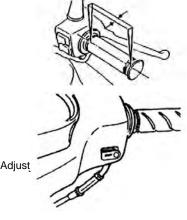
- TO prevent chemical reaction, please do not use brake fluids other than those recommended.
- Do not fill above the upper limit when adding brake fluid and avoid dropping on painting or plastic components to prevent damage.

## **§THROTTLE VALVE HANDLE CLEARANCE ADJUSTMENT §**

- Correct clearance allows throttle vale handle to rotate 2~6mm.
- Loosen the lock nut first, then turn the adjust nut to adjust.
   Tighten the lock nut securely when finished.

#### **Check Items:**

- Check throttle valve cable to see if it can be moved smoothly from a closed position to a wide open position.
- Rotate steering handle from side to side to check if the throttle valve cable is interfered.
- Check to see if the throttle valve cable is obstructed by other cables preventing it from being operated smoothly.

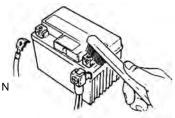


## §INSPECTION AND MAINTENANCE OF BATTERY §

 The motorcycle is equipped with a maintenance-free type battery, so it is unnecessary to check and add electrolyte. Have your motorcycle checked by SYM Authorized Dealer should any abnormality is found.

#### (Cleaning of battery terminals)

- Remove the battery terminals and clean if there are dirt and corrosion on them.
- Battery removal procedures are as follows:
   Turn ignition switch key to the "OFF" position, then
   remove negative cable screw firstly and disconnect
   the negative cable. Then, remove positive cable
   screw and positive cable.



# **⚠** CAUTION:

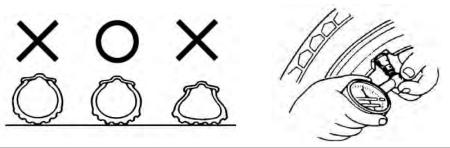
- Clean the battery posts with warm water if the posts are eroded and have some white powders on them.
- If there is an obvious erosion on the terminals, disconnect the cables, and then clean the erosion
  off with a steel brush or a piece of sandpaper.
- Install battery cable after cleaning and apply a thin coat of grease on the terminals.
- Install battery in reverse order of removal.
- The motorcycle is equipped with a maintenance-free type battery, so it is unnecessary to check and add electrolyte. Have your motorcycle checked by SYM Authorized Dealer should any abnormality is found.

# **⚠** CAUTION:

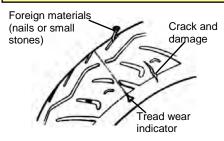
- This is a closed type battery. Never remove the caps.
- In order to prevent electric leakage and self-discharge when the battery sits idle for long periods. Remove battery from motorcycle; store it in well-ventilated and dimly lighted place after the battery has been fully charged. Disconnect battery's negative cable if the battery is still kept on the motorcycle.
- If the battery needs to be replaced, replace with a same closed-type battery (Maintenance-Free).

#### **§TIRE INSPECTION §**

- · Tires should be checked and inflated with the engine shut off.
- If a tire's ground contacting curve is abnormal, check it with an air pressure gauge and inflate it to the specified pressure.
- · Tires pressure must be checked with an air pressure gauge when cold.



#### PLEASE REFER TO SPECIFICATIONS FOR STANDARD TIRE PRESSURE



- Visual check tires for frontal and lateral side walls for crack or damage.
- Visual check tires for any nails or small stones wedged in the tread.
- Check the "tread wear indicator" condition to see if tread groove depth is insufficient.
- A tire with a wear bar showing is worn out and should be replaced immediately.

# **⚠** CAUTION:

Abnormal tire pressure, wear, or crack is the most important cause that results in the loss control
of the steering handle and a punctured tire(s).

# §STEERING HANDLE FRONT SHOCK ABSORBERS INSPECTION §

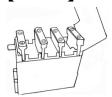
- Perform this check with engine shut off and ignition switch key removed.
- Visual check front shock absorbers for damage.
- Operate steering handle up and down, and check front shock absorbers for noises due to bends.
- Check the bolts and nuts of front shock absorbers with wrenches for tightness.
- Shake steering handle up & down, left & right, and front & rear to check if it is loosen, has too much resistance and pulls to one side.
- Check steering handle if it is being pulled too tight by the brake cables.
- Take your motorcycle to SYM Authorized Dealer for a check or adjustment if any abnormal conditions are found.

### **§CHECKING AND CHANGING FUSES §**

Turn off ignition switch, and check fuses if they are intact. Replace the blown fuse with a new one having the same specified amperage rating (15A\*3+20A\*2+25A). Using a fuse of more than (15A\*3+20A\*2+25A) amperes, a brass or iron wire to replace a blown fuse is strictly prohibited to avoid damaging the electrical system and the circuit.

- Remove the storage box, and you'll find the fuse holder near battery.
- Open the fuse box cover, and pull out the fuse. Check it for damage or broken.
- Fuses must be firmly secured with wire connectors when replacing. Loose connections will result in overhead and damage.
- Use only parts having the specified specification to replace electrical components such as light bulbs.
   Using parts not having the specified specifications for replacement may cause the fuse to blow and over-discharge the battery.
- Avoid spraying water directly on or around fuse box when washing the motorcycle.
- If the new fuse burn out quickly again, please check the faulty reason before replace it again. Take your motorcycle to your dealer for an inspection if a fuse is blown by unknown causes.

#### [REMOVE]



## [INSTALLATION]



#### **8CHECKING THE TURN SIGNAL LIGHTS AND HORN 8**

- Turn the ignition switch key to the "ON" position.
- Make sure that the front & rear and left & right signal lights flashes and also check if the warning buzzer sounds.
- · Check turn signal light covers if they are dirty, crack, or loosen.
- · Press horn button to check if it works.

# **A** CAUTION:

- Specified specification bulbs should be used for turn signal lights. Otherwise, the normal operation of turn signal lights will be affected.
- Turn on the turn signal light before turning or switching lane to warn driver of vehicles behind.
- Turn off the turn signal light immediately by pressing its button down after using. Otherwise, the flashing of twin signal lights may confuse the drivers of vehicles behind.

#### **§CHECKING THE FRONT AND REAR LIGHTS §**

- Start engine the head lamp is turned on automatically. Check if head lamp and rear lamp come on.
- Check the brightness and direction of front light by wall to see if it is correct.
- · Check the head lamp cover if it is dirty, crack, or loosen.

#### §CHECKING THE BRAKE LIGHT §

- Turn the ignition switch key to the "ON" position, hold the hand-braking levers for front and rear wheels.
   Check if the brake lights come on.
- Check the brake light cover if it is dirty, crack, or loosen.

# **⚠** CAUTION:

- Use only specified specification bulbs, do not use bulbs with different specifications to avoid damaging electrical system, burning out bulbs, and discharging the battery.
- Do not modify or add other electrical components to prevent over load or short circuit which may result in a fire and burn down the motorcycle in serious cases.

## **§CHECKING FOR FUEL LEAKAGE§**

· Check fuel tank, fuel cup, fuel hose, and carburetor for leakage.

#### **&CHECKING THE LUBRICATION OF BODY'S VARIOUS MECHANISMS&**

Check the body's pivot points if they have enough lubrication. (for example, the pivot points on the main stand, the side stand, and the brake lever...etc.).

#### **§CHECKING THE SPARK PLUG§**

- Remove the cap of spark plug cable (remove the spark plug using the spark plug wrench in the tool kit.
- Check the electrode if it is dirty or fouled by carbon deposits.
- · Remove the carbon deposits on the electrode with steel wire, and clean the spark plug with gasoline, then, wipe dry with a rag.
- Check the electrode, and adjust its gap to 0.8~0.9 mm. (Check it with a feeler gauge)
- Hand tight the spark plug as far as it can go and then tighten it another 1/2~3/4 turns with a wrench.





## ⚠ WARNING:

The engine is very hot after running. Pay attention not to get burned.

\*Use only spark plugs suitable for the engine specifications of this motorcycle recommended by the manufacturer. (Refer to specifications.)

## **§CHECKING THE AIR CLEANER §**

《DISASSEMBLE PRCEDURE》

- 1. Remove mounting screws from air cleaner cover.
- 2. Remove the air cleaner cover, then remove filter element.
- 3. Take the element out and clean it. (Refer to maintenance schedule.)

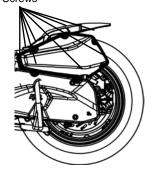
#### **(DISASSEMBLE PRCEDURE)**

Assemble the air cleaner in reverse order of disassemble.

## CAUTION:

- Dust deposit is one of the major causes of reducing output horsepower and increasing fuel consumption.
- Change the air cleaner element more frequently to prolong the engine's service life if the motorcycle is driven on dusty roads very often.
- If air cleaner is installed improperly, dust will be absorbed into cylinders, which may cause a premature wear and reducing output power and engine life.
- Be careful not to soak the air cleaner when washing the motorcycle. Otherwise, it will cause engine hard to start.

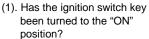




## 11.WHEN THERE IS AN ABNORMAL CONDITION OR A TROUBLE

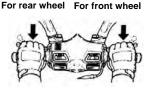
# **§DIAGNOSIS WHEN ENGINE DOES NOT START §**



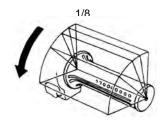




(2). Is there enough fuel in the fuel (3). Is the rear or front wheel tank?



brakes applied when pressing starting button?



High/low beam Turn Signal Switch Horn Switch

- (4). Do you rotate the throttle valve handle while pressing starting the button?
- (5). Turn the ignition switch key to the "ON" position, and press horn button down, if the horn does not sound, the fuse may have been blown.

[ Have your motorcycle checked by SYM authorized dealer immediately if there are no problems with the above items and engine still can not be started.

## 12. SUGGESTIONS ON ENGINE FUEL

- This motorcycle is designed to use UNLEADED gasoline of Octane No. 90 or higher.
- If the motorcycle is operated in high attitude (where the atmosphere pressure is lower), it is suggested that the air/fuel ratio should be readjusted to maximize the engine performance.

# 13. TRANSMISSION OIL

Recommended OIL: SAE 85W-140

## 14.CAUTIONS FOR RIDING MOTORCYCLE

Raise the motorcycle with the main stand, and sit on the seat.
 Push the motorcycle forwarding to raise the main parking stand.

# **△** CAUTION:

- Never rotate the throttle valve handle at will to increase the engine RPM before driving off.
- 2. Get on the motorcycle from the left side, and sit on the saddle properly, keep your right feet firmly on the ground to prevent the motorcycle from falling.

# ⚠ CAUTION:

- Apply brake on the rear wheel before driving off.
- 3. Rotate the throttle valve handle slowly, and then the motorcycle will begin to move.

# **⚠** CAUTION:

- Rapidly rotate the throttle valve handle or release the clutch lever may cause the motorcycle
  moving forward suddenly and it is very dangerous.
- Make sure the side parking stand is spring back completely before driving off.

## [Do not use the brake suddenly and make a sharp turn]

- Rapid braking and sharp turning will cause slip and fall.
- Rapid braking or sharp turning will cause slipping, lateral slipping, or fall especially in rainy days when the road is wet and slippery.

## [Drive with extreme caution during rainy days]

- The brake distance in rain day or on wet road will longer than that on a dry road. Therefore, slow down and prepare to apply the brake earlier.
- The throttle valve handle should be released, and the brakes should be properly applied as it is needed while reducing the speed when going down a slope.

## 15.§Anti-lock brake system§

ABS is designed to help prevent the wheel from locking up when hard brakes are applied while running straight. The ABS automatically regulates brake force. Intermittently gaining gripping force and braking force helps prevent wheel lock-up and allows stable steering control while stopping.

Brake control function is identical to that of a conventional motorcycle. The brake lever is used for the front brake and the brake pedal for the rear brake.

Although the ABS provides stability while stopping by preventing wheel lock-up, remember the following characteristics:

- ABS cannot compensate for adverse road conditions, misjudgement or improper application of brakes. You must take the same care as with motorcycles not equipped with ABS.
- ABS is not designed to shorten the braking distance. On loose, uneven or downhill surfaces, the stopping distance of a scooter's with ABS may be longer than that of an equivalent motorcycle without ABS. Use special caution in such areas.
- ABS will help prevent wheel lock-up during straight-up braking, but it cannot control wheel slip which may be caused by braking during cornering. When turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all.. Reduce your speed before you get into the corner.
- The computers integrated in the ABS compare vehicle speed with wheel speed. Since non-recommended tires can affect wheel speed, they may confuse the computers, which can extend braking distance.



# CAUTION:

ABS cannot protect the rider from all possible hazards and is not a substitute for safe riding practices. Be aware of how the ABS system operates and its limitations. It is the rider's responsibility to ride at appropriate speeds and manner for weather, road surface and traffic conditions.

## §TCS system§

TCS uses the control unit to detect the speed of the front and rear wheels. When the motorcycle starts or accelerates, if the speed difference between the rear wheel and the front wheel is detected to be too large, the control unit immediately judges that the driving force is too large, and immediately reduces the torque output of the engine by adjusting the ignition angle or cutting off the fuel, reducing the driving force, thereby reducing the slip rate of the rear wheel.

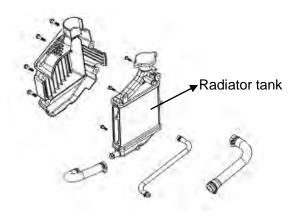
TCS, traction control system. Its purpose is to control the output torque of the engine to avoid or reduce the rear wheel slip when the motorcycle starts and accelerates, so as to maintain the stability of the motorcycle's driving direction.

The driver's control of the motorcycle is essentially to control the force between the tire and the road, but the force between the wheel and the road is limited by the adhesion characteristics between the tire and the road. When the force between the tire and the road is close to or reaches the adhesion limit, such as when the motorcycle starts or accelerates, if the road adhesion coefficient is small, such as snow, ice or wet muddy roads, the driving torque of the motorcycle will often exceed the adhesion limit between the tire and the road, resulting in excessive rear wheel slip, which not only reduces the driving performance of the motorcycle, increases tire wear, and increases the load on the transmission system and the driver, It increases fuel consumption and damages the controllability, stability and safety of the motorcycle. Therefore, reasonable adjustment of the force between the motorcycle tire and the road is of great significance for improving the active safety of the motorcycle.

#### 16.COOLING SYSTEM INSPECTION

(Check the cooling system for leakage)

- 1. Support vehicle with main stand on a level ground.
- 2. Check radiator and piping for leakage.
- 3. Check the ground where the vehicle is parked for water dripped from the vehicle.

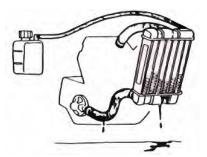


#### REPLENISHMENT OF COOLANT.

- Support vehicle on a level ground in a straight up position.
- Open the tank cover
- Open the reserved tank cover, add coolant to fill
- If coolant level drops too low, it may indicates there is something wrong with the coolant system.
- To avoid radiator getting rusty, do not use unknown brand coolants

Agent concentration: 50%

Radiator tank coolant capacity:430ml; Reserved tank coolant capacity: 75-150ml.



## 17.PERIODICAL MAINTENANCE SCHEDULE

	Maintenance kilometer	300KM	Every 1000KM	Every 3000KM	Every 6000KM	Every 12000KM	Damarka
Item	Maintenance Check Items Interval	NEW	1 Month	3 Months	6 Months	1 Year	Remarks
1	Air cleaner element (Remark)	1	С		R(paper)	R(sponge)	
2	Air cleaner	1		С			
3	Oil filter (Screen)	С			С		
4	Fuel pump filter		Repla	acement for	every 10000	KM	
5	Engine oil	R	Inspection for	every 1000h	KM ,Replace	ment for eve	ry 5000KM
6	Tire, pressure	I	1				
7	Battery	1	1				
8	Cooling system			Check every	10000 km		
9	Coolant level			Check every	10000 km		
10	Coolant, water hoses and o-rings		Rep	lacement for	every 3 yea	ırs	
11	Spark plug	I		I		R	
12	Carburetor (idle speed)	I			I		
13	Steering bearing and handles	I		I			
14	Check transmission for leakage	- 1	I				
15	Check crankcase for leakage	- 1	I				
16	Transmission oil	R	Replacem	ent for every	/ 5000KM(5	Months)	
17	Drive belt/roller				I	R	
18	Fuel tank switch and lines	ı		I			
19	Throttle valve operation and cable	ı	I				
20	Engine bolts and nuts	ı		I			
21	Cylinder head, cylinder, and piston				I		
22	Exhaust system/cleaning carbon				I		
23	Cam Chain/ignition time	- 1		I			
24	Valve clearance	ı			I		
25	Shock absorbers	- 1			I		
26	Shock tension rod		Inspection eve	ery 10000KM	,Replaceme	nt for every 3	30000KM
27	Front/rear suspension	- 1			I		
28	Main/side stands	- 1			I/L		
29	Crankcase Blow-by system(PCV)	1		I			
30	Brake mechanism/brake lining (pad)	- 1	I				
31	Bolts/nuts for each components	I	I				

<sup>☆</sup>The above maintenance schedule is established by taking the monthly 1000 kilometers as a reference which ever comes first.

[ Notes in the remarks are used to indicate the applicable models.]

Code: I ~ Inspection, cleaning, and adjustment C ~ Cleaning (replaced if necessary)

Remark: 1.Clean or replace the air cleaner element more often when the motorcycle is operated on dusty roads or in the Heavily- polluted environment.

2. Maintenance should be performed more often if the motorcycle is frequently operated in high

speed and after the motorcycle has accumulated a higher mileage.

# **18.SPECIFICATION**

TEA12T1CN-EU	Model				
Length   1980mm±20mm   Width   780mm±10mm   Height   1225mm±20mm   Width   1325mm±20mm   Wheel base   1390mm±20mm   Net Weight   150kg   Max .allowable weight   300kg(front:103kg rear:197kg)   Type   4- stroke single cylinders engine   UNLEADED   Cooling type   water-cooled   UNLEADED   Water-cooled   Compression ratio   11.2±0.2:1   Maximum HP   Maximum torque   Starting methods   electrical starter   Front shock absorber   TELESCOPE   WIT SWING   Transmission   CVT   Front tire   120/70-13   Rear tire   130/70-13   Wheel   Aluminum   Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons   Front brake   Disk type (Ø 260 mm)   Rear brake   Disk type (Ø 233 mm)   Headlight deep/main beam   13.5V 2.9W/14.5W (LED)   Position lamps   13.5V 2.9W/14.5W (LED)   Tront Turn signal light   12V 3W (LED)   Tront Turn signal light   13.5V 2.4W *2(LED)   Transmission   13.5V 2.4W *2(LED)   Transmission oil capacity   1.05L (1 L for change)   CPRSEA-9   Battery capacity   (12V 8Ah)		TEA12T1CN-EU			
Width         780mm±10mm           Height         1225mm±20mm           Wheel base         1390mm±20mm           Net Weight         150kg           Max allowable weight         300kg(front:103kg rear:197kg)           Type         4- stroke single cylinders engine           Fuel         UNLEADED           Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         Maximum torque           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 2.9W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Front Turn signal light         12V 3W (LED)           Front Turn signal light		1080mm + 20mm			
Height	G				
Wheel base         1390mm±20mm           Net Weight         150kg           Max. allowable weight         300kg(front:103kg rear:197kg)           Type         4- stroke single cylinders engine           Fuel         UNLEADED           Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         Maximum torque           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², rear: STD 1.8 kg/cm², for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 260 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 29W/14.5W (LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13					
Net Weight	Ü	i — i			
Max.allowable weight         300kg(front:103kg rear:197kg)           Type         4- stroke single cylinders engine           Fuel         UNLEADED           Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         Maximum torque           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight / stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Fear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oi					
Type         4- stroke single cylinders engine           Fuel         UNLEADED           Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         Maximum torque           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 29W/14.5W (LED)           Taillight / stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Front Turn signal light         13.5V 2.4W *2(LED)           License light         13.5V 2.4W *2(LED)           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         1.05L (1 L for change)           Transmis	Ü	ü			
Fuel         UNLEADED           Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         11.2±0.2:1           Maximum torque         electrical starter           Starting methods         electrical starter           Front shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 260 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W 1/2V 1.9W(LED)           Traillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W 2(LED)           Rear Turn signal light         13.5V 2.4W 2(LED)           License light         12V 3W (LED)           Transmission oil capacity         1.05L (1 L for change)           Transmission oil capacity         1.05L (1 L for change)           Transmission oil capacity         150.4 ± 2/A-2+25A           Sp		5,			
Cooling type         water-cooled           Compression ratio         11.2±0.2:1           Maximum HP         11.2±0.2:1           Maximum torque         11.2±0.2:1           Maximum torque         11.2±0.2:1           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 200 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 29W/14.5W (LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capac	- ' '				
Compression ratio         11.2±0.2:1           Maximum HP         11.2±0.2:1           Maximum torque         electrical starter           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², repront: STD 1.8 kg/cm², for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         13.5V 2.4W *2(LED)           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150, L           Fuse         150, L           Spark pl					
Maximum HP           Maximum torque           Starting methods         electrical starter           Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         110c.c (100c.c for change)           Fuel tank capacity         150/4 3+2UA- 2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)					
Maximum torque  Starting methods  Front shock absorber  Rear shock absorber  TELESCOPE  Rear shock absorber  UNIT SWING  Transmission  CVT  Front tire  120/70-13  Rear tire  130/70-13  Wheel  Aluminum  Tire pressure  Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake  Disk type (Ø 260 mm)  Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  13.5V 29W/14.5W (LED)  Position lamps  13.5V 29W/14.5W (LED)  Taillight /stoplight  12V 3W (LED)  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  12V 5W  Engine oil capacity  Transmission oil capacity  Transmission oil capacity  Fuse  150 L Capacity  Fuse  CPR8EA-9  Battery capacity  (12V 8Ah)	·	11.2±0.2:1			
Starting methods Front shock absorber  Rear shock absorber  Rear shock absorber  Transmission  CVT Front tire  120/70-13  Rear tire  130/70-13  Wheel  Aluminum  Tire pressure  Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake  Disk type (Ø 260 mm)  Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  13.5V 29W/14.5W (LED)  Position lamps  13.5V 3.4W /12V 1.9W(LED)  Taillight /stoplight  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  Engine oil capacity  Transmission oil capacity  Transmission oil capacity  Fuse  150 L L for change)  Fuse  Spark plug  CPR8EA-9  Battery capacity  (12V 8Ah)	Maximum HP				
Front shock absorber         TELESCOPE           Rear shock absorber         UNIT SWING           Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         15A*3+Z/JA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Maximum torque				
Rear shock absorber  Transmission  CVT  Front tire  120/70-13  Rear tire  130/70-13  Wheel  Aluminum  Tire pressure  Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake  Disk type (Ø 260 mm)  Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  13.5V 29W/14.5W (LED)  Position lamps  13.5V 29W/14.5W (LED)  Taillight /stoplight  12V 3W (LED)  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  12V 5W  Engine oil capacity  Transmission oil capacity  Transmission oil capacity  Fuse  15A*3+ZUA-2+25A  Spark plug  Battery capacity  (12V 8Ah)	Starting methods	electrical starter			
Transmission         CVT           Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         1.05L (1 L for change)           Fuel tank capacity         150 L L L for change)           Fuel tank capacity         150 L L L for change)           Fuel tank capacity         150 L L L for change)           Fuel tank capacity         150 L L L for change)           Fuel tank capacity         150 L L L for change)           Fuel tank capacity         150 L L L S L L L L L L L L L L L L L L L	Front shock absorber	TELESCOPE			
Front tire         120/70-13           Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         15A*3+2UA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Rear shock absorber	UNIT SWING			
Rear tire         130/70-13           Wheel         Aluminum           Tire pressure         Front: STD 1.8 kg/cm², ror 1 person, 2.3kg/cm² for 2 persons           Front brake         Disk type (Ø 260 mm)           Rear brake         Disk type (Ø 233 mm)           Headlight deep/main beam         13.5V 29W/14.5W (LED)           Position lamps         13.5V 3.4W /12V 1.9W(LED)           Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         1.05L (1 L for change)           Fuel tank capacity         150 L (100c.c for change)           Fuel tank capacity         150 L (100c.c for change)           Fuse         15A*3+ZUA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Transmission	CVT			
Wheel Aluminum  Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake Disk type (Ø 260 mm)  Rear brake Disk type (Ø 233 mm)  Headlight deep/main beam 13.5V 29W/14.5W (LED)  Position lamps 13.5V 3.4W /12V 1.9W(LED)  Taillight /stoplight 12V 3W (LED)  Front Turn signal light 13.5V 2.4W *2(LED)  Rear Turn signal light 13.5V 2.4W *2(LED)  License light 12V 5W  Engine oil capacity 1.05L (1 L for change)  Transmission oil capacity 110c.c (100c.c for change)  Fuel tank capacity  Fuse 15A*3+ZUA*2+25A  Spark plug CPR8EA-9  Battery capacity (12V 8Ah)	Front tire	120/70-13			
Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake  Disk type (Ø 260 mm)  Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  13.5V 29W/14.5W (LED)  Position lamps  13.5V 3.4W /12V 1.9W(LED)  Taillight /stoplight  12V 3W (LED)  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  12V 5W  Engine oil capacity  1.05L (1 L for change)  Transmission oil capacity  Fuel tank capacity  Fuse  15A*3+ZUA*2+25A  Spark plug  Battery capacity  CPR8EA-9  Battery capacity	Rear tire	130/70-13			
Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons  Front brake  Disk type (Ø 260 mm)  Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  Position lamps  13.5V 29W/14.5W (LED)  Taillight /stoplight  12V 3W (LED)  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  12V 5W  Engine oil capacity  Transmission oil capacity  Transmission oil capacity  Fuel tank capacity  Fuse  15A*3+ZŪA*2+25A  Spark plug  Battery capacity  CPR8EA-9  Battery capacity	Wheel	Aluminum			
Rear brake  Disk type (Ø 233 mm)  Headlight deep/main beam  13.5V 29W/14.5W (LED)  Position lamps  13.5V 3.4W /12V 1.9W(LED)  Taillight /stoplight  12V 3W (LED)  Front Turn signal light  13.5V 2.4W *2(LED)  Rear Turn signal light  13.5V 2.4W *2(LED)  License light  12V 5W  Engine oil capacity  1.05L (1 L for change)  Transmission oil capacity  110c.c (100c.c for change)  Fuel tank capacity  Fuse  15A*3+ZUA*2+25A  Spark plug  CPR8EA-9  Battery capacity  (12V 8Ah)	Tire pressure	Front: STD 1.8 kg/cm², Rear: STD 2.00kg/cm² for 1 person, 2.3kg/cm² for 2 persons			
Headlight deep/main beam	Front brake	Disk type (Ø 260 mm)			
Position lamps	Rear brake	Disk type (Ø 233 mm)			
Taillight /stoplight         12V 3W (LED)           Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150 L           Fuse         15A*3+ZŪA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Headlight deep/main beam	13.5V 29W/14.5W (LED)			
Front Turn signal light         13.5V 2.4W *2(LED)           Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150 L           Fuse         15A*3+ZUA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Position lamps	13.5V 3.4W /12V 1.9W(LED)			
Rear Turn signal light         13.5V 2.4W *2(LED)           License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150 L           Fuse         15A*3+ZUA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Taillight /stoplight	12V 3W (LED)			
License light         12V 5W           Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150 L           Fuse         15A*3+ZŪA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Front Turn signal light	13.5V 2.4W *2(LED)			
Engine oil capacity         1.05L (1 L for change)           Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         -15_1_L           Fuse         15A*3+ZUA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Rear Turn signal light	13.5V 2.4W *2(LED)			
Transmission oil capacity         110c.c (100c.c for change)           Fuel tank capacity         150 L           Fuse         15A*3+2ŪA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	License light	12V 5W			
Fuel tank capacity         150 L           Fuse         15A*3+2UA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Engine oil capacity	1.05L (1 L for change)			
Fuse         15A*3+ZUA*2+25A           Spark plug         CPR8EA-9           Battery capacity         (12V 8Ah)	Transmission oil capacity	110c.c (100c.c for change)			
Spark plug CPR8EA-9 Battery capacity (12V 8Ah)	Fuel tank capacity	150			
Battery capacity (12V 8Ah)	Fuse	15A*3+2UA 2+25A			
Battery capacity (12V 8Ah)	Spark plug	CPR8EA-9			
Air cleaner Paper type	Battery capacity	(12V 8Ah)			
	Air cleaner	Paper type			