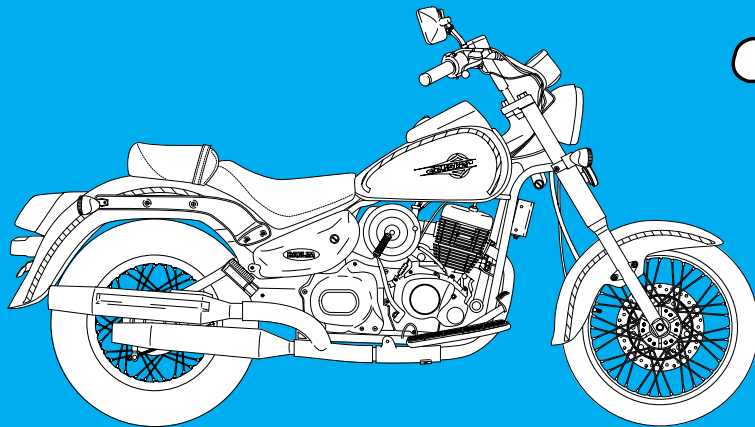


DAELIM

OWNER'S MANUAL



Daystar
(VL125L)

IMPORTANT NOTICE

- OPERATOR AND PASSENGER

This motorcycle is designed to carry the operator and one passenger.

- ON-ROAD USE

This motorcycle is designed to be used only on the road.

- READ THIS OWNER'S MANUAL CAREFULLY

Pay special attention to statements preceded by the following words:

WARNING

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

CAUTION

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE

Gives helpful information.

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

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SPECIFICATION

ITEM	DATA	ITEM	DATA
LENGTH×WIDTH×HEIGHT(mm)	2,240×860×1,140	IGNITION SYSTEM	C.D.I
WHEEL BASE(mm)	1,505	BATTERY CAPACITY	12V 9AH
GROUND CLEARANCE(mm)	135	FUEL CAPACITY(l)	17.3
SEAT HEIGHT(mm)	720	TIRE SIZE	FR. 90 / 90 - 18
WEIGHT(kgf)	147.5		RR. 130 / 90 - 15
PASSENGER	2	SUSPENSION	FR. TELESCOPIC
ENGINE TYPE	OIL COOLED/AIR COOLED 4 STROKE 4VALVE		RR. SINGLE ARM
PISTON DISPLACEMENT(cc)	124.1	BRAKE	FR. HYDRAULIC DISK
BORE AND STROKE(mm)	56.5×49.5		RR. DRUM BRAKE
STARTING SYSTEM	START MOTOR / KICK	SPARK PLUG	CR8EH-9
TRANSMISSION TYPE	5 STEPS RETURN	FUSE(A)	15

OPERATION INSTRUCTION

This manual describes matters pertaining to correct operation, safe operation and simple maintenance of the vehicle you purchased.

To ensure more comfortable and safer operation, make sure to read this manual carefully prior to operation.

- The photographs and drawings shown in this manual may differ from those of actual vehicles due to changes in vehicle specifications and modifications made.
- This vehicle is designed for 2 riders including the operator.

CAUTION

- Do not use polluted gasoline.
Using polluted gasoline will cause rust inside the fuel tank, and will close the supply of fuel to the carburetor, leading to an improper engine starting or may cause serious damage to an engine.
- Do not use polluted or low-grade oil.
Always use genuine oil to protect and extend vehicle performance and its life span.
- If any failure occurs due to the use of polluted gasoline or oil, such failure will be excluded from being eligible for repairs under the warranty.

SAFETY PRECAUTIONS

- Careful driving and the wearing of proper attire and safety equipment are the most important factors in the safe operation of the daystar. Please obey traffic regulations and do not be hurried and careless.
 - Many new vehicle owners operate their newly purchased vehicles with great care and attention to safety factors. However, after becoming accustomed to the operations are often discarded, which can lead to accidents. Please don't let this happen to you and always approach the operation of your vehicle with the safety considerations needed. When operating the vehicle, always keep in mind and obey the notes of precaution printed on the "Safety Precaution Label" attached to the vehicle.
- Always wear helmet.
 - Wear the safety goggles
 - Drive safety
 - Pay attention to get burnt as the muffler can get very hot.

PRIOR TO STARTING VEHICLE

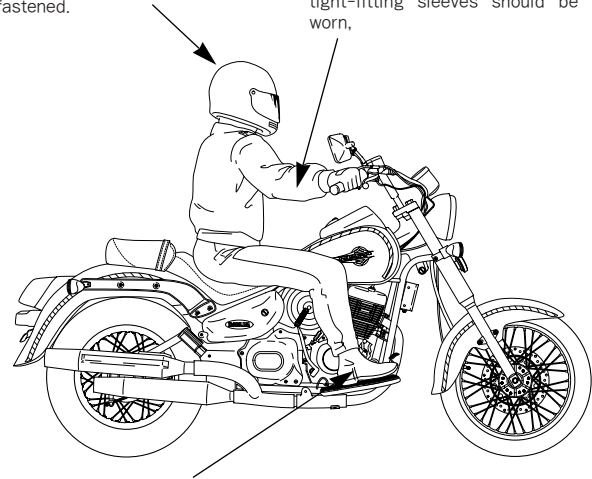
- Read user's manual carefully.
- Conduct maintenance checks prior to operation.
- Always maintain vehicle in clean status and carry out specified maintenance checks.
- Make sure to stop engine and stay away from fire when fueling.
- Exhaust gas contains harmful substance such as carbon monoxide, Start engine in well-ventilated places.

CORRECT ATTIRE

- Always make sure to wear helmet for safety. Wear gloves and safety goggles.
- Do not wear uniforms which might hinder operation. It is dangerous if the uniform is caught by brake lever, clutch lever or by the rotating part of drive chain.
- Do not wear slippers which might obstruct brake operation or transmission gear operation.
- Many automobile / motorcycle accidents happen because the automobile driver does not “see” the motorcyclist. Make yourself conspicuous to help avoid the accident that wasn't your fault :
 - Wear bright or reflective clothing.
 - Don't ride in another motorist's “blind spot”.

A helmet should always be worn and the helmet chin strap should be securely fastened.

Correct shirts or jackets with tight-fitting sleeves should be worn,



Shoes should fit properly, and shoes having little or no heel should be worn.

OPERATION

- Operators should naturally fix bodies to keep smooth driving.
- Please check whether or not you are unnaturally strained and strung up.
- Driving pose has a great influence on safe operation.
Please always maintain the center of your body in the middle of seat. Especially do not sit at the rear seat because it may lessen the weight of front wheel and cause trembling steering wheel.
- A passenger should hold on to the motorcycle or the operator with both hands and keep both feet on the pillion step bar.
- When wanting to turn, slightly lean to body toward the direction of the turn. It is unsafe if the body is not moved in union with the motorcycle.
- Curvy roads and poor, unpaved roads constantly change in surface quality. Driving on these roads can be unsafe if certain safety precautions are not followed.
- In order to safely drive through these driving conditions, anticipate coming road conditions, slow down to at least half the normal speed, and relax your shoulders and wrists while securely holding the handles.
- Driving with one or both hands not holding the handles or the front wheel lifted can cause severe injury or death of the driver resulted from the turnover of the vehicle.

CARGO

- When carrying cargo, you must keep in mind that operating the vehicle, especially when turning, will be different.
- Make sure not to overload the vehicle with goods as this can make the vehicle unstable during operation.

CAUTION

- Only load cargo in or on designated areas as placing or fastening cargo to other areas can cause damage to the motorcycle.
- Do not place articles between the frame body cover and engine as this can burn the goods.
- Do not attach large or heavy items (such as a sleeping bag or tent) to the handle bars or fork. Unstable handling or slow steering response may result.

MODIFICATION

- Modification of vehicle structure or function deteriorates manipulatability or causes exhaust noise to become louder shortening the vehicle life. These modifications are not only prohibited by law but also are the acts harmful to other people. Modifications are not covered by warranty.

ATTACHMENT

- Except designated attachment by DAELIM MOTOR CO., LTD., don't attach any extra lighting device, because it may cause an early discharging of battery.
- Carefully inspect the accessory to make sure it does not obscure any lights, reduce ground clearance and banking angle, or limit suspension travel, steering travel or control operation.
- Do not add electrical equipment that will exceed the motorcycle's electrical system capacity. A blown fuse could cause a dangerous loss of lights or engine power.
- This motorcycle was not designed to pull a sidecar or trailer. Handling may be seriously impaired if so equipped.

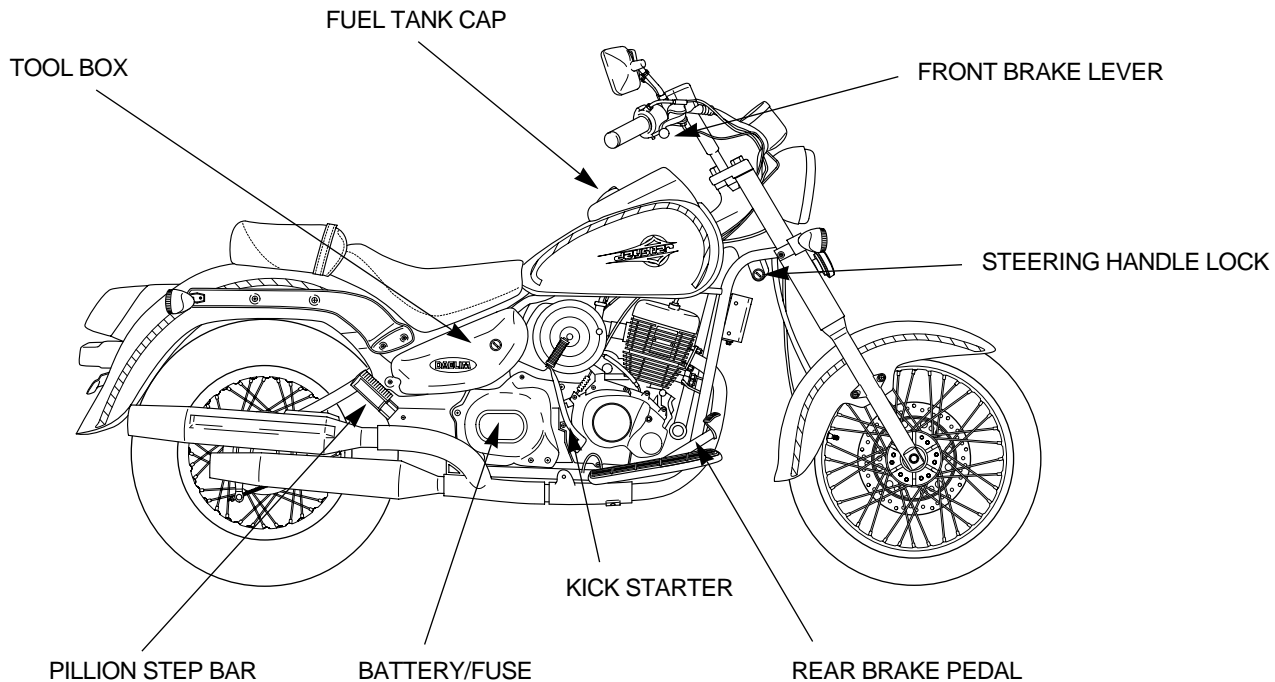
MUFFLER

- Pay particular attention to fellow passenger so that he/she can prevent getting burnt by the hot muffler during travel.

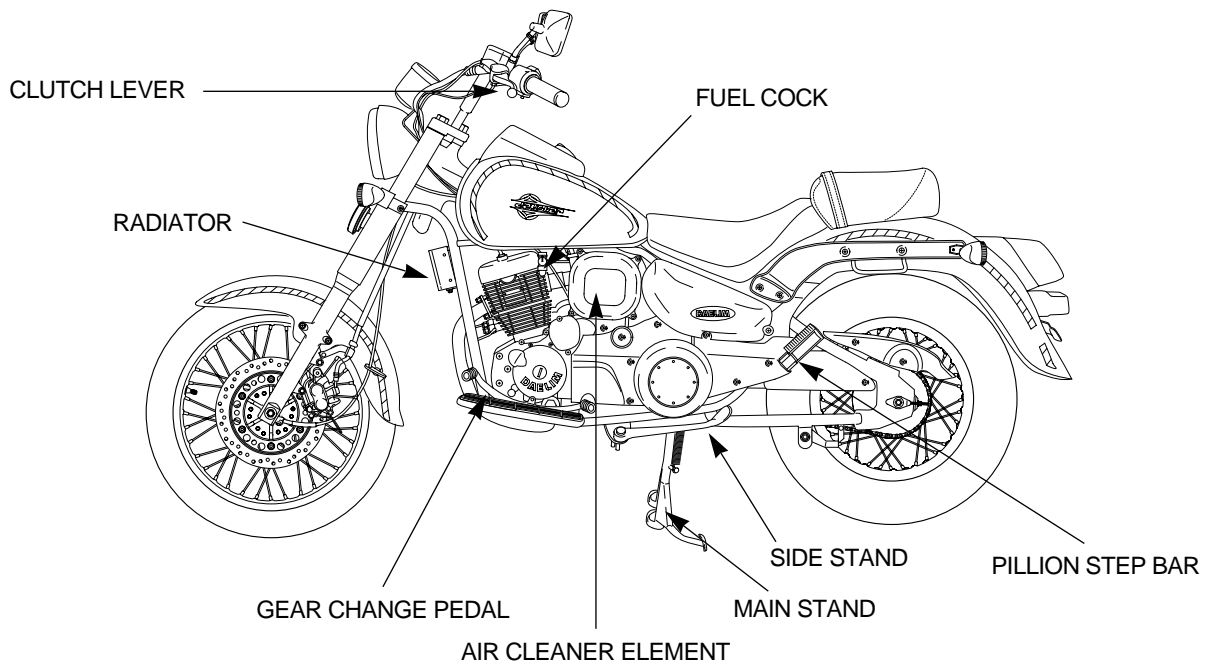
CAUTION

- Do not park in the place where many pedestrians are passing through. Pedestrians or children can be burned by contacting with the muffler.
- Fellow passenger care must pay enough attention not to be burn by contacting with the muffler.
- If haystack or vinyl is stuck to the muffler, fire can be occurred.

PARTS LOCATION



PARTS LOCATION



METER READING AND USAGE

METER

<SPEEDOMETER>

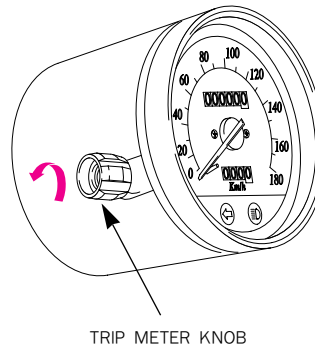
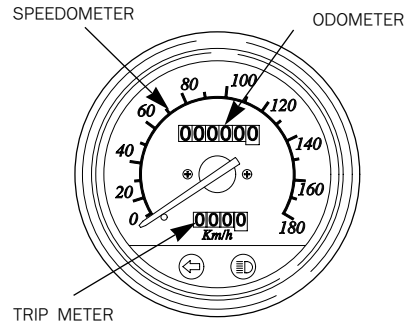
Indicates speed in km/h during travel. Maintain legal speed limits to ensure safe operation.

<ODOMETER>

Indicates total operating distance in km.

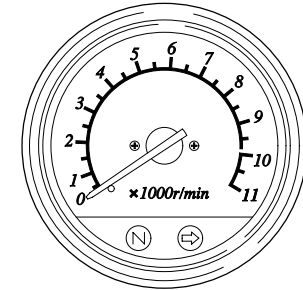
<TRIP METER>

Indicates travel distance from the point the meter is reset to "0". To reset meter, turn the trip meter knob to the direction of arrow.



TACHOMETER

Indicates engine rpm.



CAUTION

- Make sure, during travel, the tachometer needle cannot be entered danger zone (red zone) due to excessive engine running.

- Pay particular attention because idle engine running or abrupt acceleration in the 1st or 2nd gear may cause the tachometer needle to be in the danger zone (red zone). Danger zone means the engine revolution limit and, if engine is run beyond this danger limit, engine will be damaged.

INDICATOR LAMPS

<HEADLIGHT HIGH-BEAM INDICATOR>

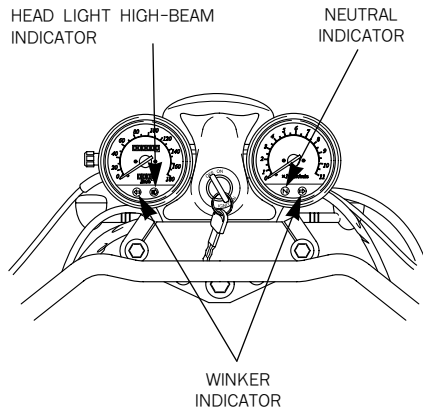
Turned on when the headlight is in high-beam position.

<NEUTRAL INDICATOR>

Turned on when the main switch is in "ON" position and transmission gear in neutral position.

<WINKER INDICATOR>

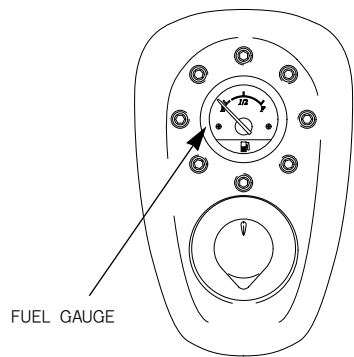
Blinks when turn signal is flashing.



FUEL GAUGE

Indicates amount of gasoline in fuel tank. If needle is within E mark (red zone), immediately fill gasoline.

- Fuel Capacity: 17.3 l
- Reserve fuel capacity: 2.9 l

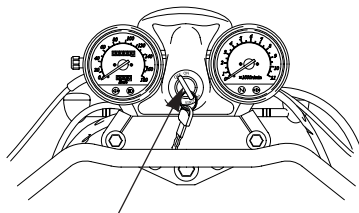


SWITCH OPERATION

MAIN SWITCH

Main switch is used to turn on or turn off engine.

Key position	Function	Key removal
ON	Starts engine. Used to operate vehicle during day or night time, to operate horn, winker, brake lights or head lights.	Cannot be removed
OFF	Stops engine. Cuts off all electrical circuits.	Can be removed



MAIN SWITCH

CAUTION

- Do not manipulate main switch key during operation. If the main switch key is placed on “Off” or “Lock” position, all electrical system will not function. Never operate the main switch key during travel as it might cause unexpected accidents. If it is necessary to remove the main switch key, stop the vehicle first prior to removing.
- Prior to dismantling from the vehicle, make sure to lock the steering wheel and remove key.
- If the key is left in “ON” position without starting engine, battery is discharged.
- Do not use a number of keys together with a metal key holder. The keys and the key holder may cause scratches or other damage to the cover while operating the vehicle.(Recommend cloth or leather key holders)

HEADLIGHT · POSITION LAMP

<TURNING ON HEADLIGHT>

Put main switch key in “ON” position and turn on headlight switch.

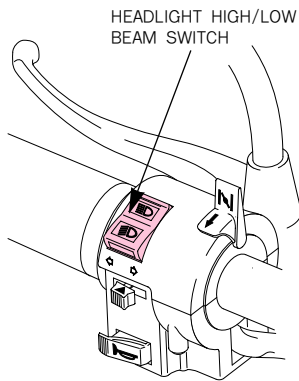
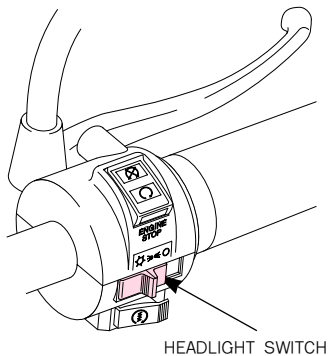
Switch position	Switch position
(H)	Headlight, position lamp and taillight turned on
(P)	Position lamp and taillight turned on.
	Light turned off

- Position lamp((P)) advises approaching vehicle of the motor cycle position when operating after sunset. In addition, when the motor cycle is stopped at night or at an intersection, the position lamp advises other vehicles of the motorcycle existence without blinding operators.



<HEADLIGHT HIGH OR LOW BEAM OPERATION>

High beam or low beam can be operated by the use of high/low beam switch.

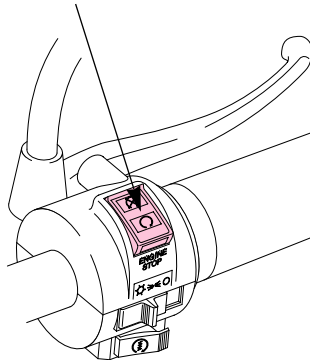
- (HI)···· Headlight placed on high beam
- (LO)···· Headlight placed on low beam








ENGINE STOP SWITCH

This switch is the device for immediate engine stop by hand in any emergencies. In normal condition, make sure its position “” (RUN), and do not use on the position of “” (OFF).

ENGINE STOP SWITCH

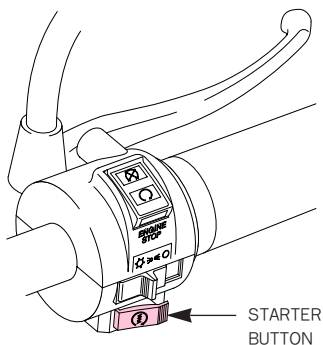


CAUTION

- Use this engine stop switch in emergencies.
- When this engine stop switch changes as “” (RUN)→“” (OFF)→“” (RUN) during travel, engine cannot operate properly and also it causes unsafety riding. Make sure the engine can be damaged by this kind of misuse.
- When you make engine stop by this switch, the main switch must be in “” (OFF) position. If the key is left in “ON” position without starting engine, battery is discharged.
- If this switch is left in “” (OFF) position, engine cannot be started.

STARTER BUTTON

Starter motor runs while this button is pressed to start engine.



CAUTION

- Do not run starter motor continuously. Because the starter motor consumes great amount of power, continuous running of starter motor might cause battery to exhausted.

WINKER SWITCH

Use winker switch when you turn to left or right, or when you change course of travel.

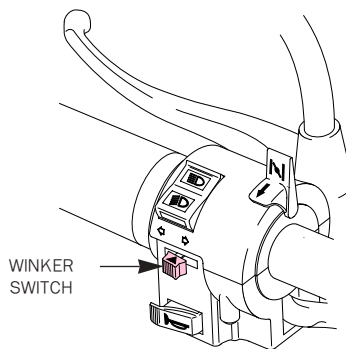
<HOW TO USE>

If this switch is turned on when the main switch is in “ON” status, turn signal is blinking.

To release, turn signal operation, press the winker switch.

⇨ (R) Turn to right

⇨ (L) Turn to left

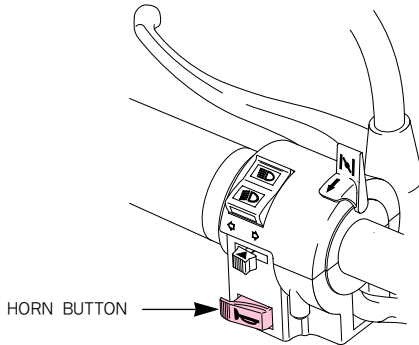


CAUTION

- Using light-bulbs with wrong watts may cause malfunction to the winker switches. Always use light-bulbs with prescribed watts.
- The winker switch does not automatically turn back to its original position after completing the turn. Please set the switch back to its center position after turning. Driving the vehicle with the light on may hinder traffic.

HORN BUTTON

If horn button is pressed when main switch is in "ON" position, horn is sounded



EQUIPMENT USAGE

STEERING WHEEL LOCK

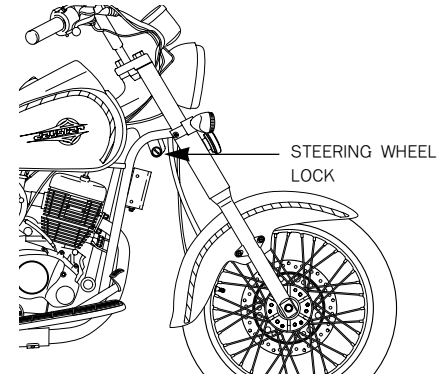
To prevent theft, lock steering wheel when parking the vehicle.

<HOW TO LOCK>

1. Turn the steering wheel to left completely.
2. Insert main switch key.
3. Turn the key 180° to the right.
If the steering wheel cannot be locked, move the steering wheel slightly to right and left while turning the key.
4. Remove the key.

<HOW TO RELEASE>

1. Insert main switch key.
2. Turn the key 180° to the left.
3. Remove key.



Caution

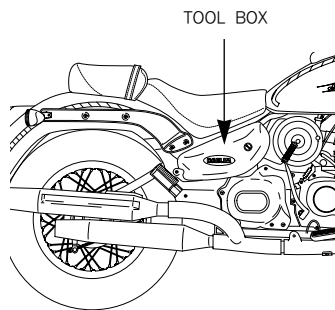
- To make sure steering wheel is locked properly, lightly turn steering wheel to left and right and verify lock.
- Park the vehicle in places free of traffic.
- Prior to operation, turn the steering wheel to left and right to verify if turning angles of left and rights are equal.

TOOL BOX

There is a tool box inside the right front side cover. Safeguard tools inside the tool box.

<HOW TO USE>

Use main switch key to open or close the tool box cover.



CAUTION

- Put tools inside the tool box, and lock it with O-ring as noise might occur while the vehicle is moving

FUEL

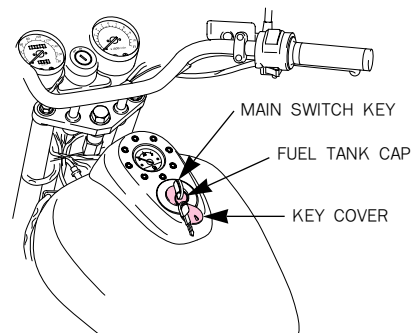
<REFUELING>

- Open key cover ; insert main switch key ; turn key to right and fuel tank cap is opened.
- Fill gasoline up the bottom of level plate located at the lower side of tank mouth.
- Push the tank cap correctly with hands and remove the main switch key. (If the fuel tank cap is not locked, the main switch key will not be removed)

FUEL CAPACITY : 17.3 l

CAUTION

- Make sure to stop engine and stay away from fire when fueling.
- If gasoline is filled above the level plate bottom, gasoline may overflow.

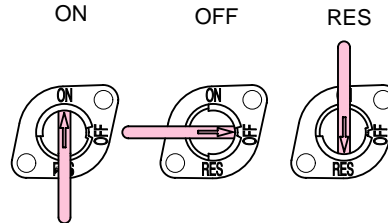


<FUEL COCK>

The fuel cock lever arrow indicates the status of fuel.

- ON....Gasoline is injected to carburetor when engine is started.
- OFF....Lever is placed on this position when vehicle is stored for a long period of time or when fuel system is inspected or maintained.
- RES....Indicates reserve fuel. If fuel runs out while driving with the fuel cock lever placed in the “ON” position, put the lever in “RES” position to use reserve gasoline.
Replenish gasoline as soon as possible at this time. After refueling, turn lever to “ON” position.

**Reserve fuel capacity:
Approximately 2.9 liter**



CAUTION

- If the lever is not turned to “ON” reserve fuel runs out during travel and vehicle cannot be operated.

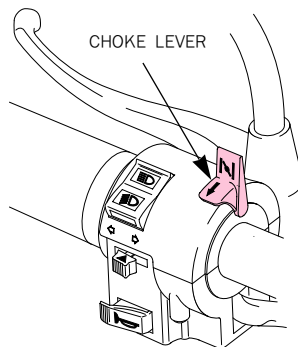
CORRECT DRIVING OPERATION

- Make sure to check the oil, gasoline, etc., before starting the engine.
- Please ensure that the main stand and the side stand is in a up-position when starting the engine.
- Make sure that the front wheel is locked when starting the engine.
- Drive with care for both safety reasons and longer vehicle life.
- For 1month(or 1,000km) after purchasing the vehicle, drive moderately avoiding fast starts and fast acceleration.

STARTING THE ENGINE

<WHEN ENGINE IS COLD(WINTER)>

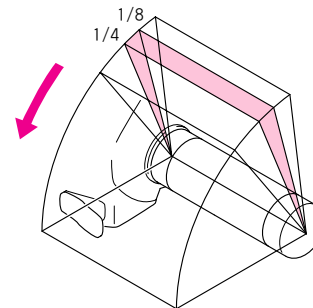
1. Verify the steering wheel lock is released.
2. Make sure engine stop switch is in “ \odot ” (RUN) position
3. Make sure fuel cock lever is in “ON” position.
4. Turn on main switch.
5. Put gear in neutral.
(Verify this with neutral indicator lamp)
6. Open choke lever all the way.
7. open throttle grip approximately $1/8$ and press starter button.
8. Once engine is started, pull and release throttle grip repeatedly to run engine idle until engine is heated, and close choke lever completely. If engine warming up takes time, run engine idle with the choke lever slightly closed.
9. Verify side stand is positively in original position and start slowly.



<WHEN ENGINE IS HOT(SUMMER)>

1. Verify the steering wheel lock is released.
2. Make sure engine stop switch is in “ \odot ” (RUN) position.
3. Make sure fuel cock lever is in “ON” position.
4. Turn on main switch.
5. Put gear in neutral.(Verify this with neutral indicator lamp)

6. Close throttle grip and press starter button. (If engine is not started with 1-2 times of trial, verify fuel cock lever is in “ON” position)
7. If engine is not started with throttle grip closed, open throttle grip approximately $1/8$ to $1/4$ and press starter button.
8. Verify side stand is positively in original position and start slowly.



CAUTION

- Exhaust gas contains harmful substance such as carbon monoxide. Start engine in well-ventilated places.
- If engine is not started within 3 seconds after starter button is pressed, wait for approximately 10 seconds and retry. This is to recover battery voltage.
- Do not run engine idle unreasonably. This not only wastes fuel but also adversely affects engine.
- If starter button is pressed without disengaging clutch, motorcycle may bring out to fall. Make sure gear is in neutral position or disengage clutch prior to starting engine.

IF ENGINE CANNOT BE STARTED

If engine cannot be started or vehicle does not move, check the followings.

- Is there fuel in fuel tank?
- Are you operating in accordance with the instructions given in user's manual?
- Is fuse not cut?
- Is starter motor running?
- If starter motor is not running due to battery consumption, try starting motor by using kick start technique.

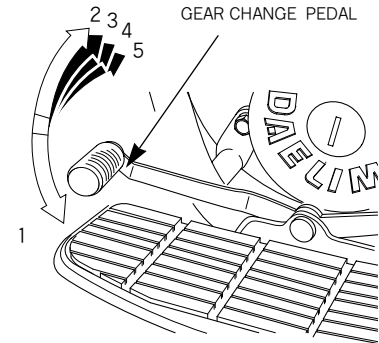
GEAR SHIFTING

Gear is shifted in 5-shift return system as shown on the right side drawing.

- Close throttle grip and hold clutch lever perfectly, and shift gear.
- Touch pedal lightly with foot and shift gear perfectly until you hear "Click" at the pedal. If you apply excessive force when shifting gear, transmission may be damaged.

<GEAR DOWN OPERATION>

If you gear down when you need to drastically accelerate speed such as when you are passing another vehicle, speed can be accelerated. If you ride too fast, it adversely affects engine because engine revolution is excessive.



OPERATION

- Make sure side stand is in original position prior to starting vehicle.
- If side stand moves unsatisfactorily, check lubrication state on side stand joint.
- Shift gear adequately according to vehicle speed. The table on the right side shows speed ranges.
- To save fuel and maintain optimum vehicle life, do not accelerate or decelerate speed abruptly.

<BREAK-IN OPERATION>

Maintain engine revolution at a level less than 6,000rpm for first 1,000km to break in vehicle. If vehicle is broken in as above, the life span of equipment is prolonged.

CAUTION

- Always start in the 1st gear, and start carefully as slow as possible.
- If you hear abnormal noise during travel, contact authorized maintenance shop immediately for inspection and necessary action.
- Maintain legal speed limits.

HOW TO USE BRAKE

- Apply brakes on front wheel and rear wheel simultaneously.
- Avoid unnecessary abrupt braking.

CAUTION

- If you apply brakes only on front wheel or rear wheel, vehicle may slide off sideways and fall.
- If you apply brakes abruptly during travel in rain or on wet road, tires slide off and may cause accidents. Reduce speed and apply brake cautiously.
- Avoid repeated brake operation as it may cause brake temperature to rise, leading to braking effect deterioration.

<ENGINE BRAKE>

If you turn throttle grip in reverse, engine brake functions and, if you need stronger braking, shift gear down from 4th to 3rd and so forth. When you travel on a long descent or on a sharp descent, use intermittent braking technique and engine brake simultaneously.

CAUTION

- Do not shift to lower gear while traveling at an excessive speed as it may suddenly increase the engine speed, adversely affect the engine and transmission, and cause the rear part of the vehicle to be shaken.

PARKING

- Put gear in neutral and put main switch to “OFF” position to stop engine.
- Put fuel cock to “OFF” position.
- Put vehicle on main stand and park on level ground in places free of traffic. If you park vehicle on an uneven ground, vehicle may fall.

CAUTION

- Select a safe place free of traffic and park vehicle.
- Muffler is hot. Park vehicle in places where there is no danger of people making contact with vehicle.

<PARKING WHEN SIDE STAND IS USED>

Stop vehicle on level ground and park with the steering wheel turned to left.

If the vehicle is parked in the following way, vehicle may fall to side.

- If the vehicle is parked with the steering wheel turned to right, or if parked on a slope, sandy places, uneven ground or soft ground, vehicle may fall.
- If is necessary to park in an unstable ground under unavoidable situation, take sufficient safety measures to prevent vehicle from falling or moving.

SELF INSPECTIONS BEFORE OPERATION

Self inspect the motorcycle and have regular maintenance inspections for increased safety and the prevention of accidents.

Self inspections before operation should be performed on a daily basis prior to operating the vehicle.

- Inspections of areas of concern.
- Fuel check
- Brake inspection
- Tire inspection
- Battery acid level inspection
- Throttle grip Inspection
- Clutch inspection.
- Drive chain inspection.
- Engine oil inspection.
- Lights and winker inspection.
- Back mirror inspection.
- License plate inspection.

CAUTION

Observe safety rules when conducting inspections.

- Exhaust gas contains harmful substance such as carbon monoxide. Do not carry out inspections on vehicle in closed places, or in poorly ventilated places, with engine running.
- Conduct inspections on flat, solid ground with the stand erected.
- Be careful of burns when conducting inspections immediately after engine is stopped because the engine and muffler are hot.
- Stop engine and remove the key prior to the vehicle maintenance service.
- If you are unable to correct trouble even after you make adjustment or correction, contact authorized maintenance shops, dealers or designated repair shops for necessary inspection and repairs.

INSPECTION OF CONCERNED AREA

Check areas which caused for concern when last operating the vehicle.

FUEL CHECK

Check gasoline to see if there is a sufficient amount of gasoline to reach your destination.

Refer to page 16 for refueling.

BRAKES

The front brake is the hydraulic disk type, and the rear brake is the drum brake type. As the brake pad wear, the brake fluid level drops.

There are no adjustments to perform, but fluid level and pad wear must be inspected periodically.

The system must be inspected frequently to ensure there are no fluid leaks.

[FRONT WHEEL]

<BRAKE LEVER FREE PLAY>

Lightly squeeze the brake levers until tension is felt to check for an appropriate amount of free play. No free play in the brake levers or overly loose brake levers are indication of a problem in the brake system.

BRAKE LEVER FREE PLAY :
10~20mm

<BRAKE FLUID LEVEL>

WARNING

- Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.
- KEEP OUT OF REACH OF CHILDREN.

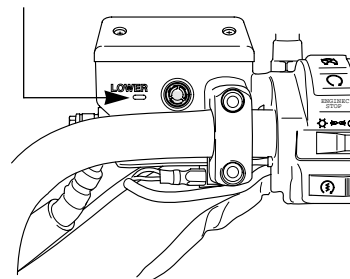
Put main stand in upright position on a flat ground and operate steel wheel, and check fluid when the top of master cylinder cap is level.

Check fluid level to see if it is below lower level.

If fluid significantly low, it may indicate fluid leakage on brake system. If this happens, check fluid leaks or brake system. If this happens, check fluid leaks or damage on system and inspect joints and clamps for looseness.

In addition, check hose and pipe protective part to see if they make contact with other parts when you make left or right turn due to vibration during travel.

LOWER LEVEL



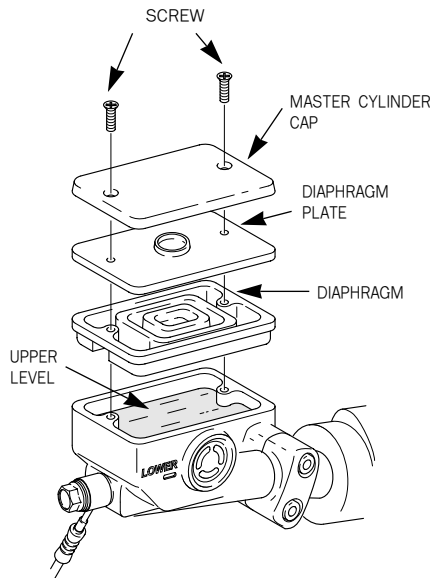
CAUTION

- Brake is an important part which protects your life. Make sure to inspect brake prior to daily use.

<REPLENISHING BRAKE FLUID>

- Move steering wheel and set the top of reserve tank level.
- Clean dust and other foreign matter from around master cylinder and take caution not to allow foreign matter to fall inside master cylinder
- Open cap screw and remove diaphragm.
- Replenish recommended brake fluid to upper level inside master cylinder. Tighten cap accurately, paying attention to the direction of diaphragm assembling, and avoid ingress of foreign matter.

RECOMMENDED BRAKE FLUID IS DOT 3

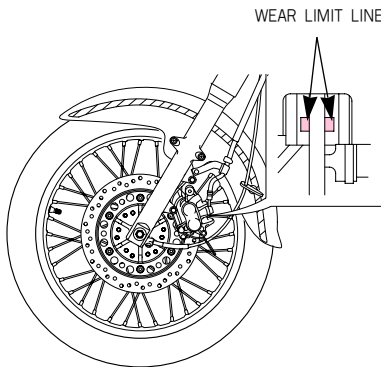


CAUTION

- Do not fill brake fluid above upper level as it may cause brake fluid to leak outside.
- Exercise full caution, when replenishing brake fluid, not to allow dust or water to mix inside master cylinder.
- If the amount of brake fluid decreases considerably, it is an indication of brake system trouble.
- To prevent occurrence of chemical change, do not use brake fluid of different manufacturer.
- Do not let brake fluid contact vehicle parts because it causes damage to painted parts.

<BRAKE PAD INSPECTION>

Operate brake and, if the brake pad wear limit line reaches the brake disc side, it indicates the pad has reached wear limit.



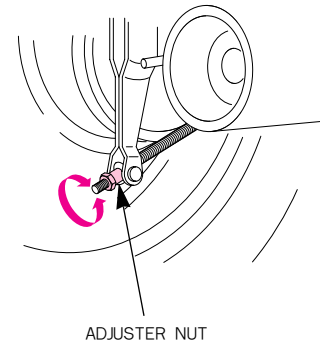
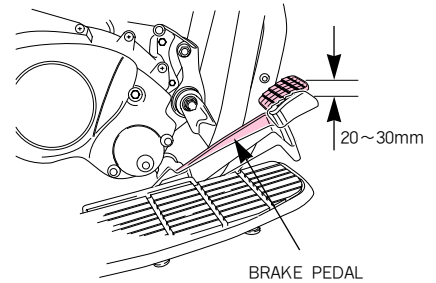
[REAR WHEEL]

Push the brake pedal with hands for resistance and check if the pedal movement appropriate.

If brake pedal movement is inappropriate, adjust the pedal free play using the rear wheel brake adjuster nut.

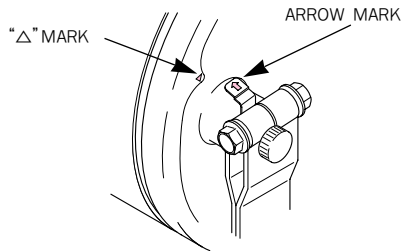
- To adjust pedal free play, turn adjuster nut. After adjustment, push the brake pedal with hands until you feel resistance and verify the pedal free play is within prescribed level.

BRAKE PEDAL FREE PLAY :
20~30mm



<BRAKE SHOE INSPECTION>

Push brake pedal completely and, if the brake arm arrow and the “△” on brake panel match each other, it indicates brake shoe has reached its life limit.



CAUTION

- In case brake pad or shoe reaches the wear limit line, replace it immediately.
Worn brake pad can cause an accident due to lack of power

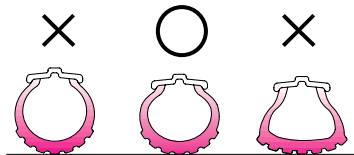
TIRES

<TIRE PRESSURE CHECK>

Check for an appropriate level of air pressure by examining how the tire sits on the ground. If you notice any abnormalities in the shape of the tire with regard to the area contacting the ground, use a tire gauge to check tire pressure and adjust the tire pressure to the appropriate level.

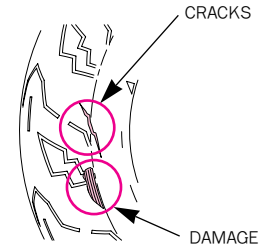
<TIRE PRESSURE>

SIZE	FRONT	90/90-18	
	REAR	130/90-15	
TIRE PRESSURE (kg/cm ²)	1 PERSON RIDING	FRONT	2.00
		REAR	2.00
	2 PERSON RIDING	FRONT	2.00
		REAR	2.00



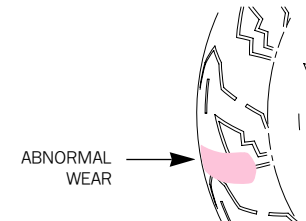
<CRACKS/DAMAGE>

Check tire tread and sides for cracks and damage.



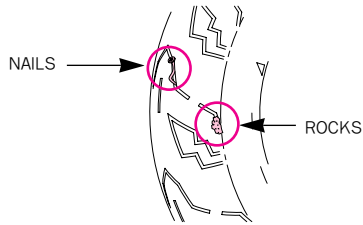
<ABNORMAL WEAR>

Check tire tread for signs of abnormal wear.



<FOREIGN MATTER>

Check tire tread and sides for nails, rocks, etc. That might have become wedged in the tire.

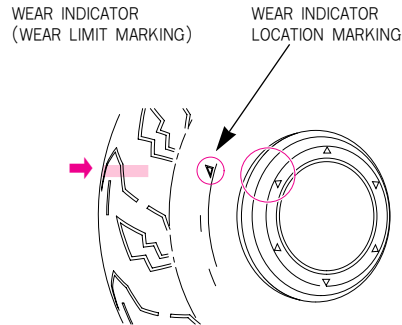


CAUTION

- If air pressure is inadequate or if there are cracks, damage or abnormal wear on tires, it may cause trembling steering wheel and flat tire.
- This vehicle is equipped with tube tires. If you have flat tires, please contact authorised maintenance shops for inspection.

<TREAD DEPTH>

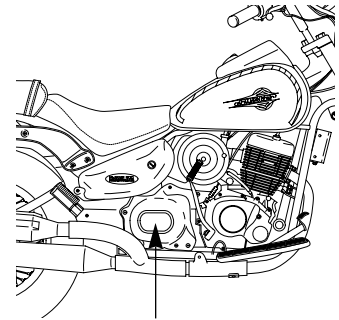
- Check the wear indicator(wear limit marking) to see if there is an insufficient amount of tread remaining.
- If the indicators are visible, replace tire with a new one.



BATTERY

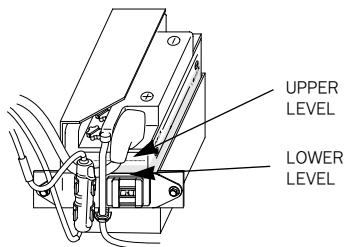
<BATTERY ACID LEVEL CHECK>

- Remove the four flange bolts, and take off the right lower cover.



RIGHT LOWER COVER

- Place vehicle in upright position and check battery acid of each cell to see if it is between upper and lower level. If the battery acid is near lower level, replenish distilled water.



UPPER
LEVEL

LOWER
LEVEL

WARNING

- When handling the battery stay away from flammable materials.
- KEEP OUT OF REACH OF CHILDREN.

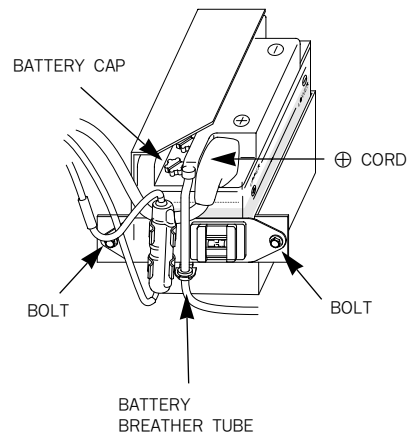
CAUTION

- Except designated attachment by DAELIM MOTOR CO., LTD., do not attach any extra lighting device, because it may cause an early discharging of battery.
- There 2 injection molded bolt-shapes on the right side lower cover. Take precautions not to cause damage when removing the cover.

<BATTERY ACID REPLENISHING>

If the battery acid is insufficient, replenish distilled water in the following sequence.

- ① Loosen the bolt and open the battery band.
- ② Remove the battery breather tube from the battery.
- ③ Remove the negative pole \ominus side cord first and the positive pole \oplus side cord next.
- ④ Remove the battery and open the battery cap. Fill distilled water to near upper level.
- ⑤ Tighten the battery cap accurately to the vehicle and install battery. Make sure, at this time, that \oplus side cord is connected first, followed by \ominus side cord.



BATTERY CAP

\oplus CORD

BOLT

BOLT

BATTERY
BREATHER TUBE

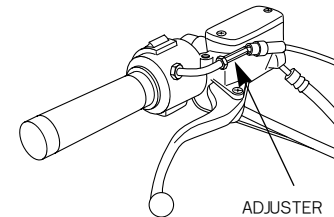
CAUTION

- Turn the ignition switch OFF before disconnecting the terminal from the battery.
- When battery holder is opened, do not allow the ⊕ side cord to contact metal part.
- After installing battery, verify the breather tube has been accurately assembled to elbow. If the breather tube is removed, the battery acid causes damage to adjacent parts. If the tube is bent and clogged, the battery internal pressure rises and battery case may be damaged. Follow instructions on the label attached to vehicle for correct checking procedure.
- If excessive amount of distilled water put in, it overflows and causes corrosion of affected part.

- Battery acid contains thin sulfuric acid. Prevent its contact with eyes or skin as it causes damage if contacted. If battery acid gets on part of your body, immediately flush the affected area with clean for longer than 5 minutes, and consult medical doctor for necessary treatment.
- Make sure cords are not twisted or inserted when assembling battery to battery holder.

THROTTLE GRIP

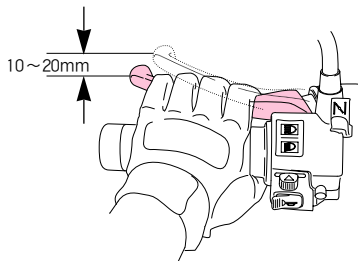
- Check for smooth rotation of the throttle grip from the fully open to the fully closed position at both full steering positions.
- Measure the throttle grip free play at the throttle grip flange.
The standard free play should be approx : **2~6 mm**
- To adjust the free play, turn the adjuster.



CLUTCH

<LEVER FREE PLAY INSPECTION>

Pull clutch lever until you feel resistance, and using a graduated ruler, check the lever end free play to verify it is within prescribed level.



<CLUTCH OPERATION>

- When engine is idling, pull clutch lever all the way and see if there is abnormal noise or if you feel unusual heaviness.
- Slowly release clutch lever and start. Check at this time to see if clutch is engaged smoothly without slipping.

<CLUTCH LEVER ADJUSTMENT>

Adjust lever free play by using the clutch cable's clutch lever side or clutch side adjuster.

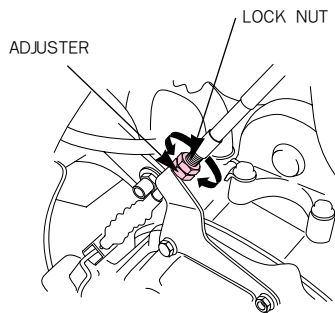
- To make major adjustment, loosen the clutch side lock nut and adjust by operating the adjuster.
- For fine adjustment, loosen the clutch lever side lock nut and turn adjuster.
- After adjusting, tighten lock nut. After adjustment is completed, pull clutch lever with hands until you feel resistance and verify the lever free play is within prescribed level.

CLUTCH LEVER FREE PLAY:
10~20mm

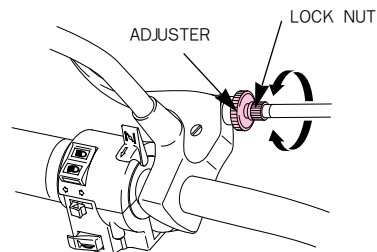
CAUTION

- Upon completion of adjustment, start engine and verify gear change pedal is operating smoothly.

■ MAJOR ADJUSTMENT



■ FINE ADJUSTMENT



DRIVE CHAIN

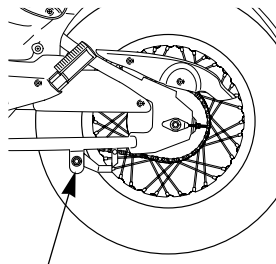
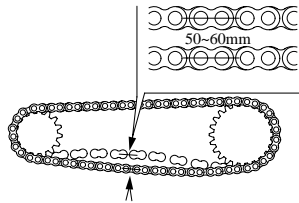
- The service life of drive chain is dependent upon proper lubrication and adjustment. Poor maintenance can cause premature wear or damage to the drive chain and sprocket.
- The drive chain should be checked and lubricated as part of the Pre-ride Inspection.
- Under severe usage, or when the motorcycle is ridden in unusually dusty or muddy areas, more frequent maintenance will be necessary.

<INSPECTION>

1. Turn the engine off, put vehicle in upright position on the main stand and shift the transmission into neutral.
2. Remove the chain tensioner.

3. Move the position of chain tensioner roller up and down with hands to check if the chain free play is within recommended range.

OPTIMA FREE PLAY : 50-60 mm



CHAIN TENSIONER ROLLER

4. Rotate the rear wheel slowly and inspect the drive chain and sprockets for any of the following conditions :

■ DRIVE CHAIN

- ① Damaged rollers
- ② Loose Pins
- ③ Dry or Rusted Link
- ④ Kinked or Binding Link
- ⑤ Excessive Wear
- ⑥ Improper Adjustment
- ⑦ Missing O-ring

■ SPROCKETS

- ⑧ Excessively Worn Teeth
- ⑨ Broken or Damaged Teeth

- A drive chain with damaged rollers, loose pins or missing O-ring must be replaced.
- A chain which appears dry or shows signs of rust, requires supplementary lubrication.

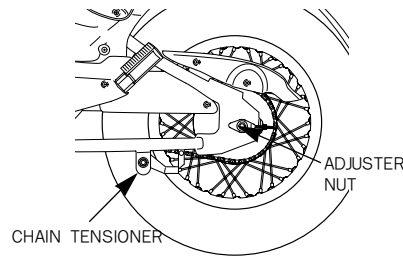
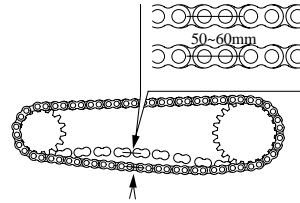
<ADJUSTMENT>

- Drive chain slack should be checked and adjusted, if necessary, every 1,000km.
- When operated at sustained high speeds or under conditions of frequent rapid acceleration, the chain may require more frequent adjustment.

1. Place the motorcycle on its side stand with the transmission in neutral and the ignition switch off.
2. Remove the chain tensioner.
3. Loose the axle nut.
4. Loose the lock nuts on both sides of the swingarm.
5. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nuts clockwise to tighten the chain or counter clockwise to provide more slack.

Rotate the rear wheel and recheck slack at other section of the chain.

OPTIMA FREE PLAY : 50-60 mm



6. Tighten the axle nut to specified torque.

AXLE NUT TORQUE : 6.0-8.0 kgf · m

7. Tighten the adjusting nuts lightly, then tighten the lock nuts by holding the adjusting nuts with a spanner.
8. Install the chain tensioner.

WARNING

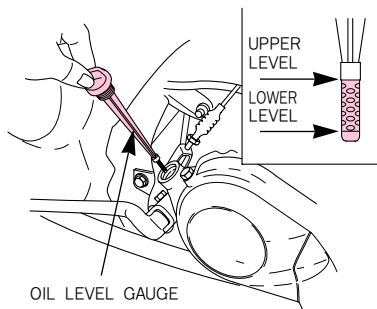
- If a torque wrench is not used for this installation, see your authorized dealer as soon as possible to verify proper assembly.

CAUTION

- If a torque wrench is not used for this installation, see your authorized dealer as soon as possible to verify proper assembly.
- Make sure the right and left chain adjuster graduations are set in the same position.
- After adjusting chain, check the rear brake pedal free play.
- New motorcycle adapts endless-type drive chain. (end-type for after-sales service purpose)
After once disassembling chain, chain clip can be accidentally removed, so change new one after disassembling chain even once.

ENGINE OIL LEVEL CHECK

- Put vehicle in upright position on flat ground and check engine oil level and degree of pollution.
- Run engine idle for approximately 2~3 minutes on flat ground and stop engine. Approximately 2~3 minutes thereafter, put vehicle in upright position and check engine oil and verify the oil level is between the upper and lower level of oil level gauge.
- Insert oil level gauge, without locking, and check oil level after removing oil gauge.
- If the oil level is near lower level, replenish oil to upper level.



CHANGING ENGINE OIL

If engine oil is polluted, it seriously affects the engine life span. Maintain appropriate level of oil, use correct type of oil and observe oil exchange period.

- Stand vehicle on the main stand on level ground and run engine idle (warm up) for approximately 2-3 minutes.
- Stop engine and place a container under the engine.
Remove oil level gauge and drain bolt.
- Clean oil filter screen.
- Check the condition of oil filter screen seal rubber and, O-ring.
- Close oil filter screen, spring, and oil drain bolt, and replenish oil up to the upper level of the oil level gauge.

OIL CAPACITY: 1.2 l

WARNING

- Be sure to keep oil away from children and pets. Dispose of used oil properly.

<RECOMMENDED OIL>

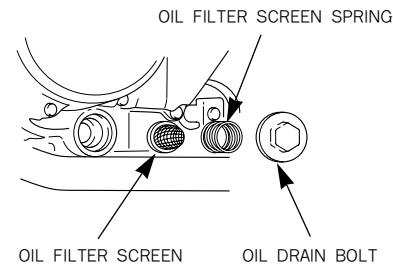
If oil sold on markets or privately-manufactured oil(low-grade) is used, engine life is adversely affected, and the privilege of warranty repairs cannot be guaranteed.



GRADE(SF, SH)



GRADE(SE, SH)



CAUTION

- If you change engine oil immediately after engine is stopped, be careful of burns because the engine, muffler and engine oil are still hot.
- Exercise caution not to allow dust or other foreign matter to flow in when refilling engine oil. If oil overflows, wipe off oil clean.
- If oil level is lower or higher than prescribed level, engine is adversely affected.
- Do not mix oil with those of different manufacturers or grade, or do not use low-quality oil as it may cause deterioration of oil, leading to accidents.
- Clean the oil filter screen with fresh cleaning oil every 4,000km.
- Be careful not to lose the oil filter screen spring when assembling the oil drain bolts.

LIGHTS AND WINKER

[HEAD LIGHT, TAIL LIGHT]

Start the engine and make sure the lights turn on. Also check to see if the lights are damaged or if there is dirt on them.

[BRAKE LIGHT CHECK]

Turn the main switch to ON.

While separately operating the front and rear brakes, check to see if the brake light turns on. Also check to see if there is any damage to the lens or if there is dirt on the brake light.

[WINKER CHECK]

Turn the main switch to ON.

Check to see if all the winker in the front and rear of the vehicle(including left and right sides) are flashing properly. At the same time, check to make sure that the automatic sound signal of the winker is working. Check also to see if any of the lens are damaged or dirty.

BACK MIRROR

Sit squarely on the seat and check to see if you have a good view behind the vehicle by looking at the rear view mirrors. Also check for dirt and damage on the rear view mirrors.

LICENSE PLATE

Check to see if there is any dirt or damage to the license plate.
Also check to see if the license plate is firmly secured to the vehicle.

MAINTENANCE

- The Required Maintenance Schedule specifies how often you should have your motorcycle served, and what things need attention. It is essential that your motorcycle be served as scheduled to retain its high level of safety, dependability, and emission control performance.
- These instructions are based on the assumption that the motorcycle will be used exclusively for its designed purpose. Sustained high speed operation, or operation in unusually wet or dusty conditions, will require more frequent service than specified in the MAINTENANCE SCHEDULE.
Consult your authorized Daelim dealer for recommendations applicable to your individual needs and use.

MAINTENANCE SCHEDULE

Perform the Self Inspections Before Operation at each scheduled maintenance period.

I: INSPECT AND, CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY

R: REPLACE L: LUBRICATE C: CLEAN

ITEM		FREQUENCY	ODOMETER READING(NOTE 1)				REMARK	
			× 1,000Km	1	4	8		12
			MONTH		6	12		18
★	FUEL LINE		I	I	I	I		
★	FUEL FILTER		R	R	R	R		
★	THROTTLE OPERATION		I	I	I	I		
★	CARBURETOR CHOKE			I	I	I		
	AIR CLEANER			C	C	C	NOTE (2)	
	SPARK PLUG			I	R	I		
★	VALVE CLEARANCE		I	I	I	I		
★	CARBURETOR IDLE		I	I	I	I		
★	ENGINE OIL		R	R	R	R		
★★	ENGINE OIL FILTER		R	R	R	R		
	DRIVE CHAIN		Every 1,000 : I and L					
	BATTERY ACID			I	I	I		

ITEM		FREQUENCY	ODOMETER READING(NOTE 1)				REMARK	
			× 1,000Km	1	4	8		12
			MONTH		6	12		18
★	BRAKE FLUID			I	I	I	NOTE (3)	
★	BRAKE SHOE / PAD WEAR			I	I	I		
	BRAKE SYSTEM		I	I	I	I		
★	BRAKE STOP SWITCH			I	I	I		
★	HEADLIGHT ADJUSTMENT			I	I	I		
★	SUSPENSION			I	I	I		
	CLUTCH		I	I	I	I		
	SIDE STAND			I	I	I		
★	BOLTS, NUTS, FASTENERS		I		I			
★★	WHEELS / TIRES			I	I	I		
★★	STEERING HANDLE BEARING		I		I			

- ★ If you do not have the appropriate tools or information to conduct maintenance, or if you feel you are not capable to perform maintenance on this vehicle, contact authorized dealers or repair shops for maintenance and repairs.
- ★★ To ensure safety, inspections and maintenance of these parts must be carried out by dealers, or repair centers.

NOTES : (1) At higher odometer readings, repeat at the frequency interval established here.
(2) Service more frequently when riding in unusually wet or dusty areas.
(3) Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.

MAINTENANCE PRECAUTIONS

The following is an explanation of correct inspection methods, cleaning and parts replacing. Please always refer to this section when wanting to inspect or repair your vehicle.

WARNING

- If your motorcycle is overturned or involved in a collision, inspect control levers, cables, brake hoses, calipers, accessories, and other vital parts for damage. Do not ride the motorcycle if damage impairs safe operation. Have your authorized Daelim dealer inspect the major components, including frame, suspension and steering parts, for misalignment and damage that you may not be able to detect.
- Use new, genuine Daelim parts or their equivalent for maintenance and repair. Parts which are not of equivalent quality may impair the safety of your motorcycle and the effective operation of the emission control systems.

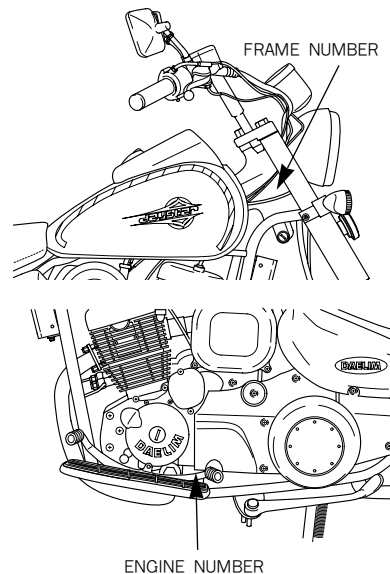
CAUTION

- Always observe safety rules when performing maintenance on the vehicle.
- Choose a flat surface and make sure the main stand is in a secure down position.
- Use correct tools.
- Conduct engine maintenance with the engine key out of the ignition.
- Be careful around the engine and muffler when performing maintenance as these areas can become extremely hot.
- After self maintenance, the waste material must be packed in the specified container and entrusted disposal to the authorized disposal company.
- Exhaust gas contains harmful substance such as carbon monoxide. Do not carry out inspections on vehicle in closed place, or in poorly ventilated places, with engine running.

FRAME AND ENGINE NUMBERS

The frame and engine numbers are needed when registering motorcycle or when ordering parts.

- Frame number is stamped on the right side of steering head.
- Engine number is stamped on left crank case.



AIR CLEANER ELEMENT

<INSPECTION>

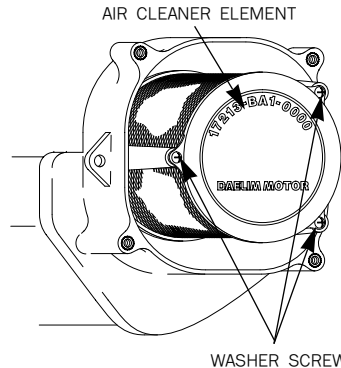
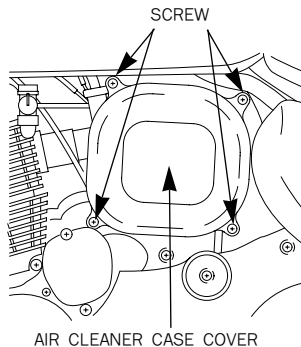
- This vehicle is equipped with viscous type air cleaner element containing oil and the element cannot be cleaned.
- Replace element after each operation of 4,000km.

<DISASSEMBLING>

- Loosen four screw and remove air cleaner case cover.
- Loosen four washer screw and air cleaner element.

<ASSEMBLING>

- Assemble in the opposite order of disassembling.



CAUTION

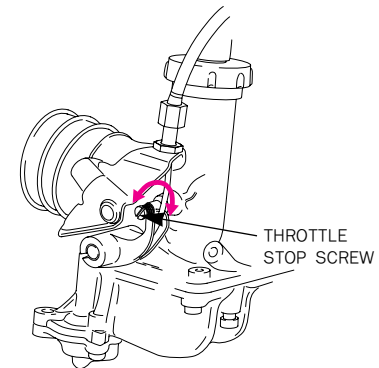
- If air cleaner element is inadequately assembled, dust and other foreign matters are absorbed directly into the element, inducing cylinder wear or output deterioration and adversely affecting engine durability. Assemble correctly.
- When cleaning vehicle, be careful not to allow water to get into air cleaner. If water gets inside air cleaner, it causes inefficient engine starting.

IDLE SPEED ADJUSTMENT

- ① Put vehicle in upright position on a flat ground.
- ② Start engine and let it run idle for a few minutes.
- ③ Using the throttle stop screw, adjust idling to prescribed level.

IDLING REVOLUTION: 1,400 ± 100rpm

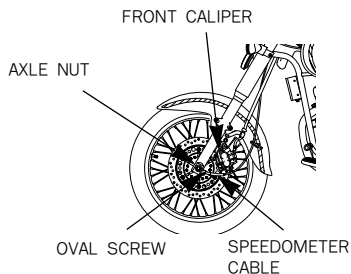
- ④ Tighten up pilot screw and loose backward $1\frac{3}{4}$ to open.
- ⑤ Operate throttle lever lightly and verify there is no change in the number of idle running. If there is a change, repeat the process described in paragraph ③ and ④



WHEEL REMOVAL

[FRONT WHEEL REMOVAL]

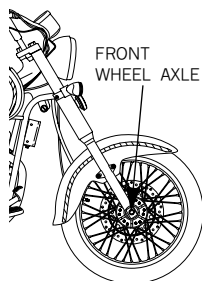
- ① Raise the front wheel off the ground by placing a support block under the engine.
- ② Loosen the oval screw and remove the speedometer cable.
- ③ Remove the front caliper assembly from the fork by removing the fixing bolts.



CAUTION

- Do not operate brake lever after the front wheel is removed. It will make wheel assembling difficult.

- ④ Loosen the axle nut.
- ⑤ Withdraw the front wheel axle and remove the front wheel.



- ⑥ Install in the reverse order of removal.

CAUTION

- When installing the wheel, carefully fit the left brake disk between the brake pads to avoid damaging the pads.

- Fit the caliper over the disc, taking care not to damage the brake pads. Install the caliper fixing bolts, and tighten to a torque of : **2.7kgf · m**

- Tighten the front axle nut to the specified torque.

FRONT AXLE NUT TORQUE :
5.0~7.0kgf · m

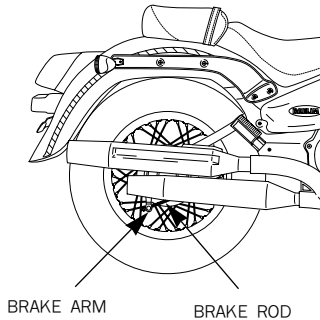
- ⑦ After assembling, operate brake for a number of times and see if wheel is turning smoothly without getting interruption.

WARNING

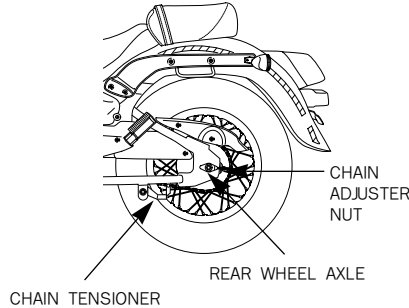
- If a torque wrench was not used for installation, see your authorized dealer as soon as possible to verify proper assembly.
Improper assembly may lead to loss of braking capacity.

[REAR WHEEL REMOVAL]

- ① Set vehicle on main stand in upright position on level ground.
- ② Loosen the rear brake adjuster nut and remove the brake rod.



- ③ Remove the chain tensioner.
- ④ Loosen the chain adjuster nut.
- ⑤ Loosen the rear wheel axle nut and remove the rear wheel axle and the rear wheel.



- ⑥ Install in the reverse order of removal.

REAR AXLE NUT TORQUE :
6.0~8.0 kgf · m

- After installing the wheel, apply the brake several times and then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

WARNING

- If a torque wrench was not used for installation, see your authorized dealer as soon as possible to verify proper assembly.
Improper assembly may lead to loss of braking capacity.

BULB REPLACEMENT

- Be sure to turn the ignition switch OFF when replacing the bulb.
- Do not use bulbs other than that specified.
- After installing a new bulb, check that the light operates properly.

WARNING

- The light bulb becomes very hot while the light is ON, and remain hot for a while after it is turned OFF. Be sure to let it cool down before servicing.

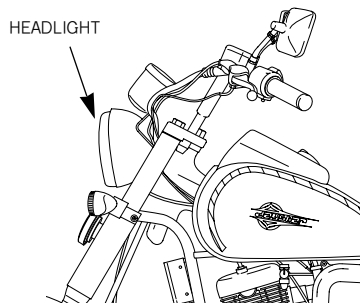
CAUTION

- Do not put finger prints on the headlight bulb, as they may create hot spots on the bulb and cause it to break. Wear clean gloves while replacing the bulb.

If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

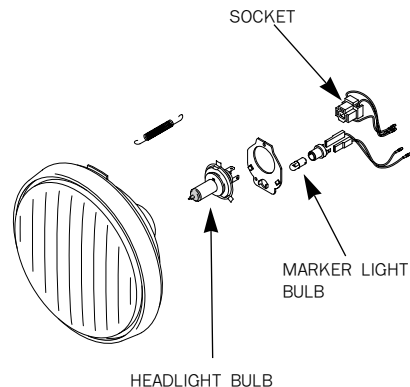
[HEADLIGHT BULB]

- ① Loosen the washer screw and remove the headlight.



- ② Pull off the socket without turning.
- ③ Loosen the spring and remove the headlight bulb.
- ④ Install a new bulb in the reverse order of removal.

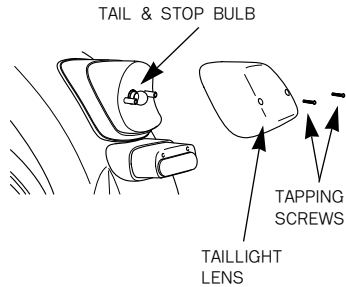
HEADLIGHT BULB : 12V 35/35W



[TAIL/STOPLIGHT BULB]

- ① Loosen the tapping screw and remove the taillight lens.
- ② Slightly press down on the bulb and turn it counterclockwise.
- ③ Install a new bulb in the reverse order of removal.

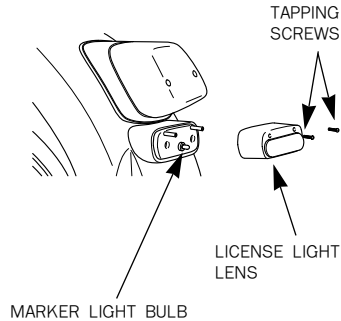
TAIL/STOPLIGHT BULB: 12V 21/5W



[LICENSE LIGHT BULB]

- ① Loosen the tapping screw and remove the license light lens.
- ② Slightly press down on the bulb and turn it counterclockwise.
- ③ Install a new bulb in the reverse order of removal.

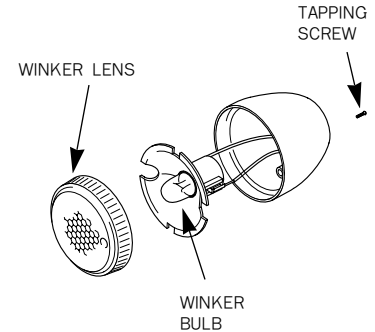
LICENSELIGHT BULB: 12V 5W



[FRONT/REAR WINKER BULB]

- ① Loosen the tapping screw and remove the winker lens.
- ② Slightly press down on the bulb and turn it counterclockwise.
- ③ Install a new bulb in the reverse order of removal.

WINKER BULB : 12V 10W



SPARK PLUG

If electrode is stained or plug gap is not right, satisfactory spark is not produced. Clean and make adjustment.

- Remove spark plug cap.
- Clean around the plug.
- Using a plug wrench, remove plug.
- Clean plug with plug cleaner.
- Check electrode for wear and corrosion. if the center of electrode became round, replace the electrode.
- Measure the spark plug gap using a feeler gauge.

PLUG GAP: 0.8-0.9mm

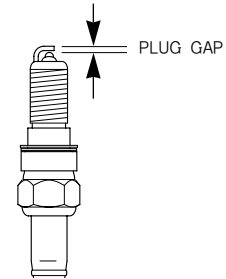
- Tighten with hands until the plug washer touches cylinder head.

STANDARD PLUG: CR8EH-9

- If new plug is installed, turn 1/2 and tighten using a plug wrench. If plug is reused, turn 1/3~1/4 and tighten.

CAUTION

- If plug of different maker or different heat value is used, it causes unsatisfactory engine starting, inadequate engine revolution and output deterioration.
- The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.
- To install a spark plug, turn it in as far as possible with your fingers, then tighten it with a wrench. Do not overtighten or cross thread the spark plug or the aluminum threads of the cylinder head will be damaged. Do not allow contaminants to enter the engine through the spark plug hole when the plug is removed.



<DEALING WITH POOR STARTING>

When the starter doesn't work during driving in winter times or in a repeated short distance, use the suitable spark plug for this driving condition.

Poor starting may happen when nonstop driving in low speed, even though we produce standard plug.

In case starter isn't working well in driving repeatedly in a short distance or in an area with many traffic signals, use the CR7EH-9 plug instead of standard plug CR8EH-9

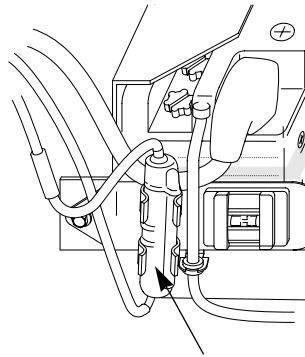
FUSE REPLACEMENT

Turn off main switch and check fuse for sign of cut.

- Remove the four flange bolts, and take off the right lower cover.
- Fuse is installed inside fuse holder located near battery.
- To separate fuse, open fuse holder, hold both ends of fuse cord and pull up, and pull out the fuse connector crosswise.
- If the newly replaced fuse is burned again soon, it is an indication of trouble.

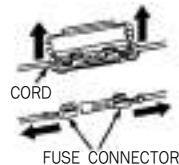
WARNING

- Never use a fuse with a different rating from that specified. Serious damage to the electrical system or a fire may result, causing a dangerous loss of lights or engine power.



FUSE HOLDER

<DISASSEMBLY> <ASSEMBLY>

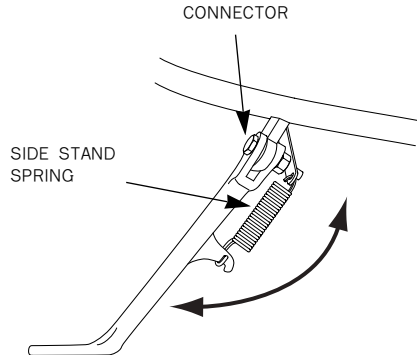


CAUTION

- Turn the ignition switch OFF before checking or replacing fuse to prevent accidental short-circuiting.
- When disassemble fuse, make sure that fuse holder isn't separated.
- After assembling fuse in the part of connector, check if fuse moves easily to a line. If fuse moves easily, it may cause an accident at heating.
- When replacing any of the electrical parts (lights and gauges), be sure to replace them with the recommended parts. Using different parts can lead to the fuses burning out or damage to the battery.
- When washing the motorcycle take special care not to allow to be splashed in the area of the fuse.

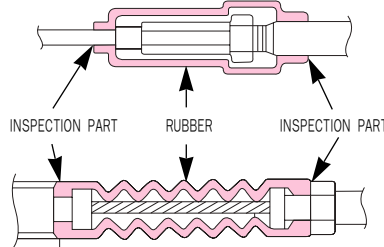
SIDE STAND

- Erect main stand and place vehicle in upright position on level ground.
- Check side stand spring for signs of damage and lubrication state on joints.



CABLE RUBBER PART

A rubber part is assembled on the cable to protect the inner cable. Make sure that this part is placed firmly around the correct part of the cable. When washing the car, do not directly spray water on to the rubber part is dirty, use a dry cloth to clean this area.



CAUTION

- Infiltration of the foreign materials or water caused by damage of lever (disengagement, tearing, etc.) may cause freezing in winter season resulting in faulty operation, sudden acceleration and braking force decrease. If any damage is found, replace with the new one immediately.

NOTABLES FOR CAR WASHING

- Make sure to stop the engine prior to car washing.
- Be careful not to allow water to enter the muffler during the washing. Water inside the muffler may cause an improper engine starting or rust occurrence.
- Do not let water get inside the braking system during the washing, as water inside the brake system may weaken the braking power. Upon completion of washing, select a safe place where there is no traffic obstruction, and start the vehicle. Lightly apply the brake while driving at a slow speed and check the braking power. If the braking power has been weakened, apply brake lightly while driving at a slow speed to dry up the brake system.
- Take precautions when waxing the vehicle. Excessive polish of the painted section and/or the resin part with compound wax might damage the painted section causing discoloration of the affected area.

STORAGE GUIDE

Extended storage, such as for winter, requires that you take certain steps to reduce the effects of deterioration from non-use of the motorcycle.

In addition, necessary repairs should be made BEFORE storing the motorcycle; otherwise, these repairs may be forgotten by the time the motorcycle is removed from storage.

<STORAGE>

- Empty the fuel tank into an approved gasoline container using a commercially available hand siphon or an equivalent method.
- If storage will last more than one month, carburetor draining is very important, to assure proper performance after storage.

CAUTION

- Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where gasoline is drained or stored and where the fuel tank is refueled.
- Remove the battery. Store in an area protected from freezing temperatures and direct sunlight. Slow charge the battery once a month.
- Wash and dry the motorcycle. Wax all painted surfaces.
- Inflate the tires to their recommended pressures. Place the motorcycle on blocks to raise both tires off the ground.
- Cover the motorcycle (don't use plastic or other coated materials) and store in an unheated area, free of dampness with a minimum of daily temperature variation. Do not store the motorcycle in direct sunlight.

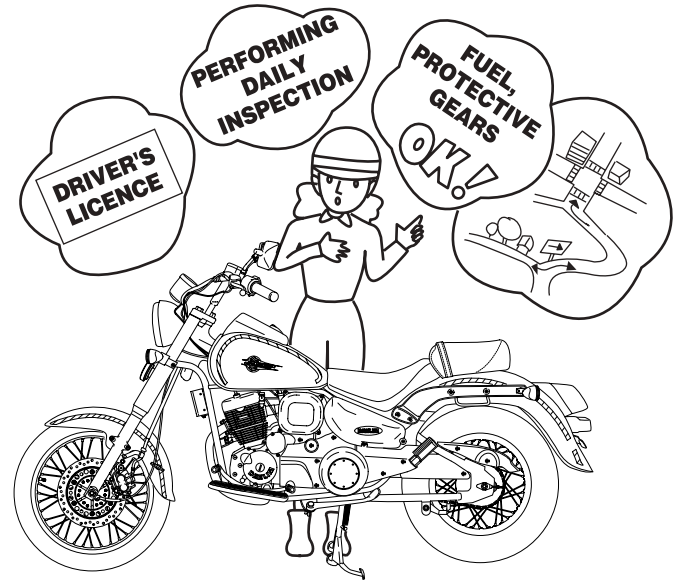
<REMOVAL FROM STORAGE>

- Uncover and clean the motorcycle.
- Charge the battery as required. Install the battery.
- Perform all Self Inspections Before Operation checks (page 22).
Test ride the motorcycle at low speeds in a safe riding area away from traffic.

SAFE DRIVING

PREPARATION BEFORE DRIVING

- Performing daily inspection
- Putting on the protective gears (Helmet, glove, goggles, etc.)
- Bringing the driver's licence
- Determinating the path to the desired destination

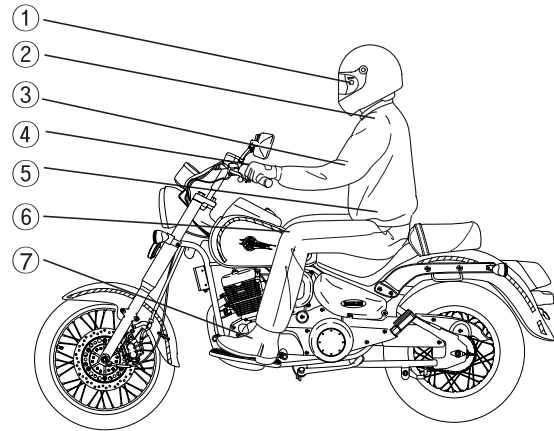


DRIVING METHOD

DRIVING POSITION

The appropriate driving position is most important thing to driving safely.

- ① Eyes : Look at the front direction widely.
- ② Shoulders : Relieve the tension.
- ③ Arms : Relieve the tension and bend arms to inside and let them act as the spring.
- ④ Hands : Grip the handle the position away from the inside end of the handle with distance of one finger to facilitate the operation of the switch and lever.
- ⑤ Wrist : Keep the state to act freely without applying excessive force to the shoulder and arms.
- ⑥ Knees : Press the fuel tank slightly.
- ⑦ Feet : Place the feet to face the front parallel and make the step bar be placed in the center of feet.



PRECAUTION WHEN DRIVING

- Secure the safe distance.
 - Drive protectively.
 - Do not obstruct the traffic.
 - Do not drive on the pedestrian way or walkway.
 - Drive on the left driveway when passing away.
 - Make sure that you can apply the brake anytime.
 - Always apply the brake when stopping temporarily.
 - Do not drive excessively long distance and take enough break.
- If any abnormality is found, stop driving and contact service center to inspect the vehicle.
 - Restart the vehicle after 2~3 min when it is turned over.
 - Always turn on the headlight at night.

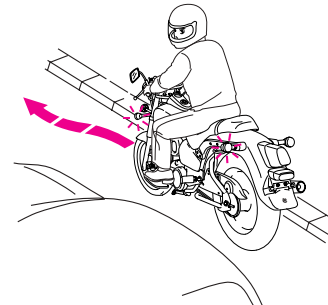
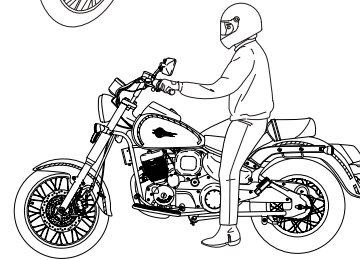
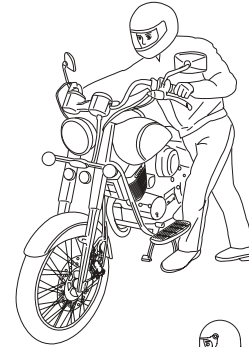
STARTING

Prior to starting always look around to avoid accident.

- ① Get on the vehicle after pulling back the stand.
- ② Start driving slowly after turning on the winker and releasing the brake while ensuring the safety around the vehicle.

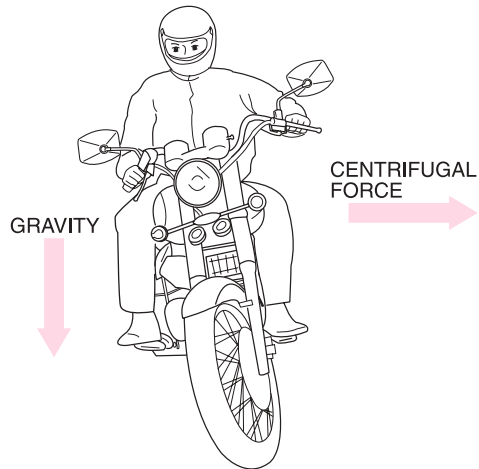
CAUTION

- Return the side stand to its original position, keep driving without doing this may cause turnover accident.
- Drive the vehicle only on the driveway. Driving on the walkway can cause accident. Also, if the wheel is transformed when advancing directly to the walkway, the vehicle can be overturned resulting in injury of the driver due to the driving instability.
- Overspeed driving on the unpaved road can cause the vehicle to be overturned resulting in injury of the driver due to the driving instability.
- Do not drive in the gravel road. If any gravel enters the wheel or engine case, the vehicle can be overturned resulting in injury of the driver.
- If possible, do not drive close to the sea or on the road where calcium chloride is treated. The muffler, external parts and welded parts can be corroded rapidly, and also in case of damage of the frame, the vehicle can be overturned resulting in injury of the driver.



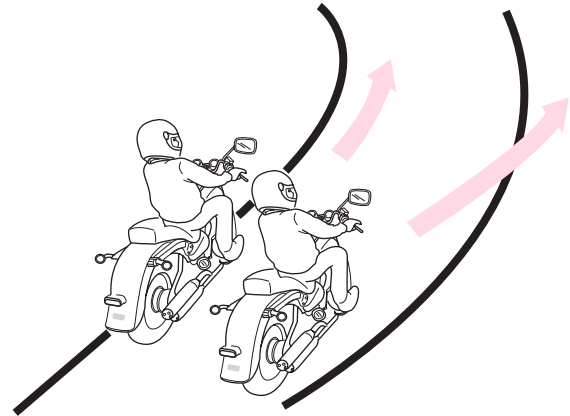
TURNING METHOD

PRINCIPLE OF TURN



The basic principle of turn is balancing using the centrifugal force which makes vehicle go outside and the gravity which makes vehicle fall inside.

EFFECT OF SPEED



The centrifugal force increases in inverse proportion to the radius of a curve and in proportion to the square speed. Decelerate prior to entering the curved way to reduce the centrifugal force.

3 POSITIONS OF TURNING

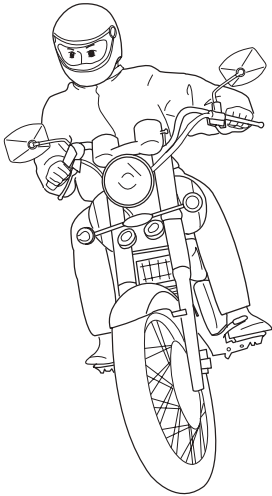
The basic principle of turn is balancing using combined force of the centrifugal force and the gravity.

All 3 positions require straightening the head and keeping the eyes horizontally.

< LEAN-WITH >

This is a turning position with motorcycle and driver in a line.

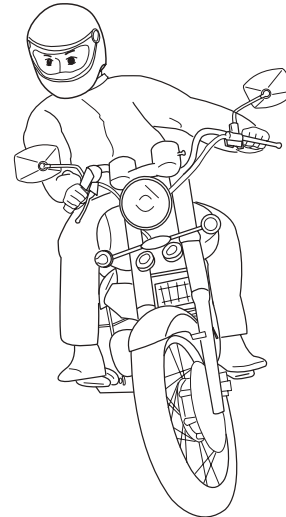
This position is the most natural and exact, so driver must learn it thoroughly.



< LEAN-IN >

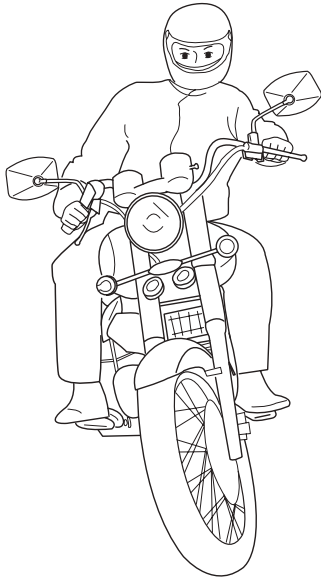
This is a turning position with driver leaned inside more than motorcycle. This position is adequate to drive on the rained or slippery road because it has best road holding.

However, special attention is required because front visual field is poor when driver leans inside more than motorcycle.

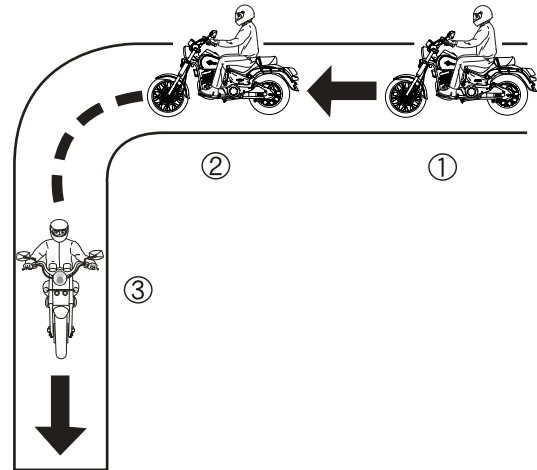


< LEAN-OUT >

This is a turning position with motorcycle leaned inside more than driver, which is opposite to the lean-in position. With this position, quick turn is well performed and driver can obtain wide front visual field adequate to drive on the rained or slippery road because it has best road holding. However, special attention is required because there is danger of slipping on the bad holding road.



TURNING METHOD



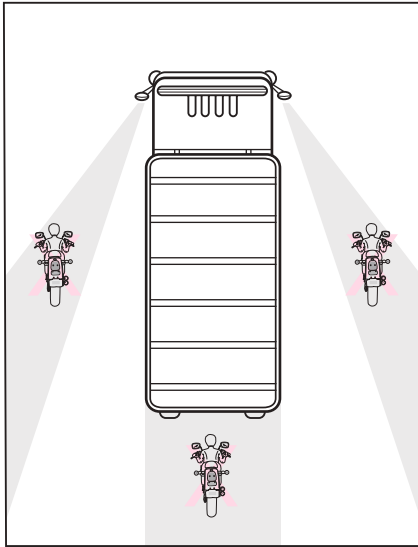
- ① Turn the throttle grip to its original position and decelerate using both front and rear brakes.
- ② Lean the vehicle toward inside of turn circle while driving slowly at constant speed.
- ③ Accelerate gradually.

PRECAUTION WHEN TURNING

Do not drive inside of large truck's turn circle.

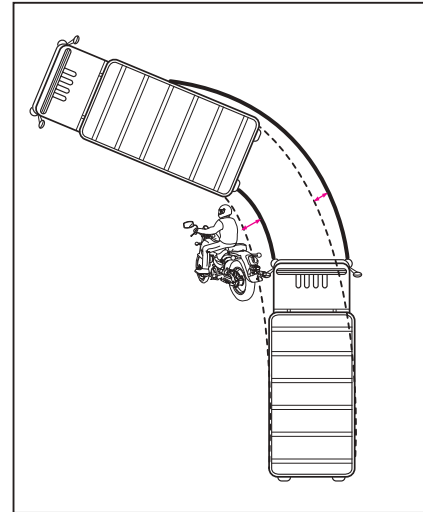
< DEAD ANGLE ZONE >

Dead angle zone is the sight range which cannot be identified by driver and increases in proportion to the width of the motorcycle.



< DISTANCE BETWEEN THE FRONT AND REAR WHEEL TURN >

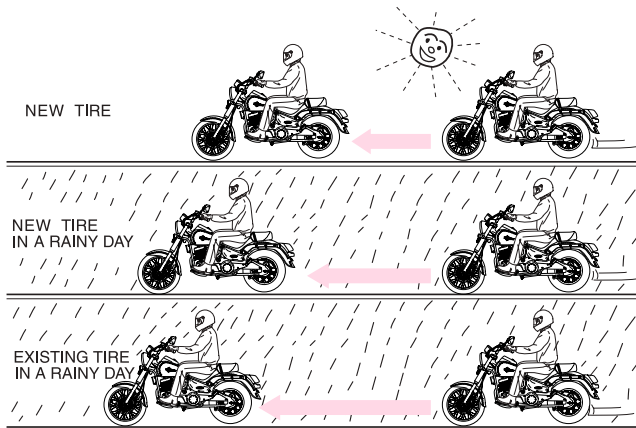
It is distance between path of the front and rear wheel and increases in proportion to the length of the motorcycle.



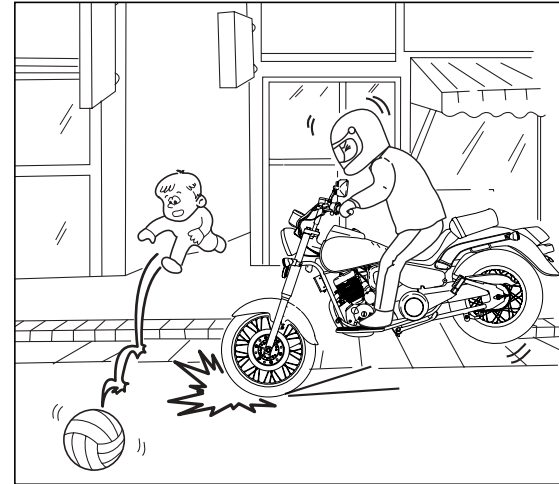
BRAKING METHOD

BASIC PRINCIPLE OF BRAKE (FRICTION FORCE)

- Vehicle is braked using friction between road surface and tires.
- Braking distance increases 1.5 times on wet road and 3 times on icy road because friction force of road surface is decreased.



RESTRAINT OF BRAKE EFFECT (INERTIA)



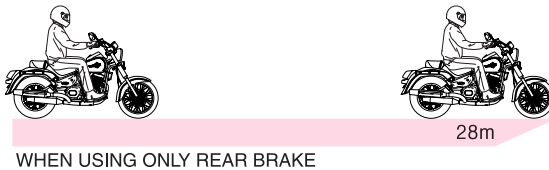
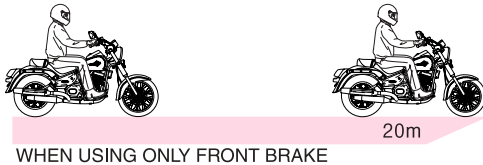
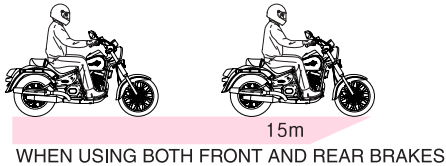
Due to the inertia, motorcycle does not stop immediately after applying the brake.

BRAKING METHOD

- Turn the throttle grip to its original position and decelerate using the engine brake.
- Erect the motorcycle straight.
- Brake using both front and rear brakes.

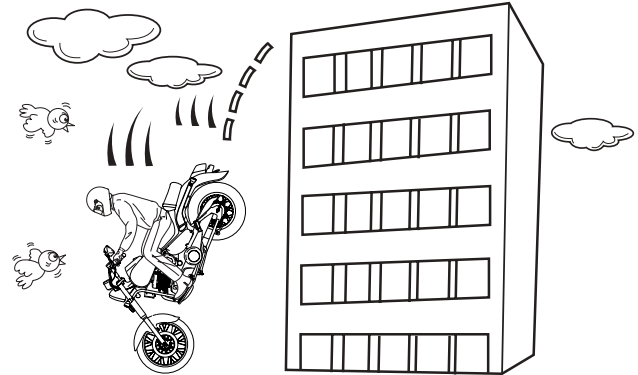
COMPARISION OF BRAKING DISTANCE

- Vehicle speed : 50 km/h



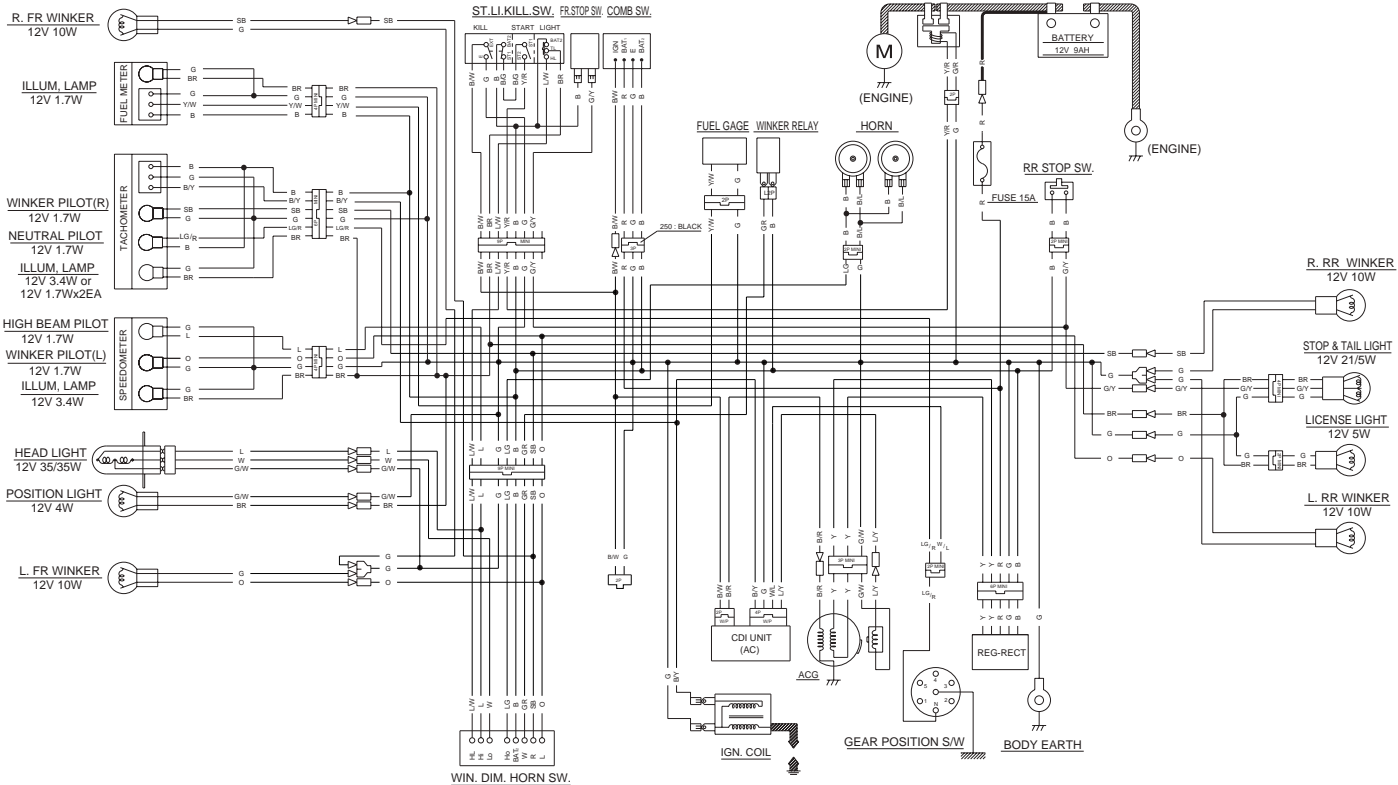
IMPACT WHEN COLLISION

Learn the proper braking method to prevent accident.



Impact increases in proportion to the speed and weight. The impact when collision to concrete wall at 50 km/h is same as one when falling from the height of 10m.

WIRING DIAGRAM



COMB. SW.			
BAT	BAT	IGN	E
ON	○	○	○
OFF	○	○	○
COLOR	R	B	W

KILL			START		LIGHTING		
EXT	E	BAT	ST1	ST2	TL	TL	TL
OFF	○	○	FREE	○	OFF	○	○
RUN	○	○	PUSH	○	P	○	○
COLOR	BW	G	B	BIG	COLOR	BIG	YR
COLOR	B	BR	LW		COLOR	B	BR

WINKER			HORN		DIMMER	
W	R	L	H0	BAT	HL	H
R	○	○	FREE	○	HI	○
N	○	○	PUSH	○	(N)	○
L	○	○	COLOR	GR	B	LO
COLOR	GR	SS	O		COLOR	LW

B	BLACK	BR	BROWN
Y	YELLOW	O	ORANGE
L	BLUE	SB	SKY BLUE
G	GREEN	LG	LIGHT GREEN
R	RED	P	PINK
W	WHITE	GR	GRAY

COLOR COMB - GROUND MARKING

MEMO :

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Daystar

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 **DAELIM MOTOR CO., LTD.**