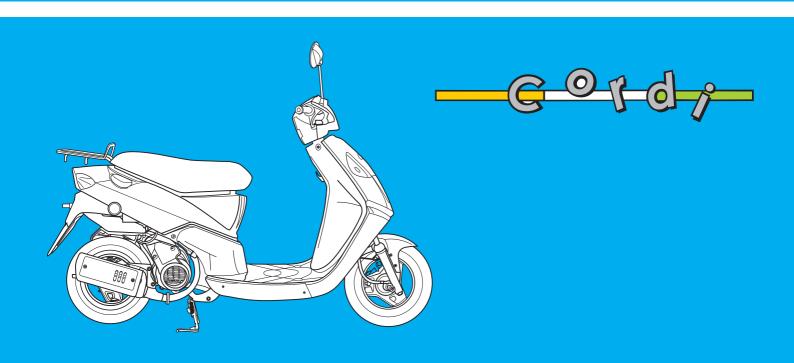


# **OWNER'S MANUAL**



# **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)	$1,715 \times 665 \times 1,053$	TIRE SIZE	FR.	90 / 90 - 10 50J
WHEEL BASE(mm)	1,227	TINE SIZE	RR.	90 / 90 - 10 50J
GROUND CLEARANCE(mm)	105	SUSPENSION	FR.	TELESCOPIC
SEAT HEIGHT(mm)	745	SUSPENSION	RR.	UNIT SWING OIL DAMPER
DRY WEIGHT(kgf)	76.5		FR.	HYDRAULIC DISK
DACCENCED CADACITY	OPERATOR	BRAKE	RR.	DRUM BRAKE
PASSENGER CAPACITY	(OPERATOR AND ONE PASSENGER)	SPARK PLUG		BP6HS(BRP6HS)
AIR COOLED,ONE CY		FUSE(A)		7
ENGINE TYPE	2 STROKE	HEADLIGHT BULB		12V 18/18W×2
PISTON DISPLACEMENT(cc)	49.5			$(12V\ 35/35W \times 2)$
BORE AND STROKE(mm)	40.0×39.4	TAIL/STOP LIGHT BULB		12V 5W/21W
STARTING SYSTEM	START MOTOR / KICK	WINKER BULB	FR.	12V 10W×2
TRANSMISSION TYPE	V - MATIC	WINKER BULB	RR.	12V 10W×2
IGNITION SYSTEM	C.D.I	SPEEDOMETER LAMP		12V 1.7W×2
BATTERY CAPACITY	12V3AH(MF TYPE)	WINKER INDICATOR LAMP		12V 3W×1
FUEL CAPACITY( 1)	4.8	LICENSE PLATE LAMP		12V 5W×1
OIL CAPACITY( l )	1.05	LICENSE I LATE LAN	/II	12 v 3 vv × 1

<sup>\* &</sup>quot;( )" MARKED CONTENTS APPLY TO EUROPE ONLY.

# **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.

# **A** 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 motorcycle 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 vehicle. 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 vehicles, always keep in mind and obey the notes of precaution printed on the "Safety Precaution Label" attached to the vehicles.

- Always wear helmet.
- Always put on gloves.
- Observe posted speed limits.
- Park the vehicles away from people (especially children) as the muffler can get very hot.
- For safety, do not illegally modify the vehicle.
- Regularly conduct specified maintenance inspections.

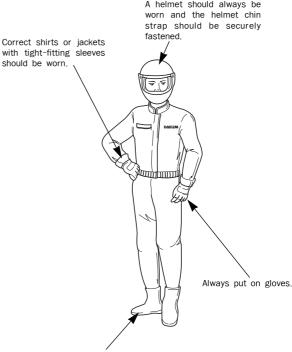
<Maintenance Inspection Points> Brakes, Tires, Oil, Lights, Horn, Instruments

# 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.
- 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".



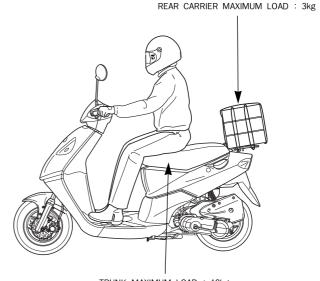
Shoes should fit properly, and shoes having little or no heel should be worn.

#### **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.
- Passengers should accurately fix bodies using both hands and put both feet on floor panel.
- 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 vehicle.
- 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.



TRUNK MAXIMUM LOAD : 10kg

# **A** CAUTION

- Only load cargo in or on designated areas as placing or fastening cargo to other areas can cause damage to the vehicle.
- Do not place articles between the frame body cover and engine as this can burn the goods.
- Do not place cloth-like materials in the area of the oil tank cap. If the hole in oil tank cap is blocked, oil will not flow freely into the engine which can cause severely engine damage.
- Do not attach large or heavy items (such as a sleeping bag or tent) to the handle bars, fork, or fender. Unstable handling or slow steering response may result.

# **MODIFICATION**

 Modification of vehicle structure or function deteriorates manipulability 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.

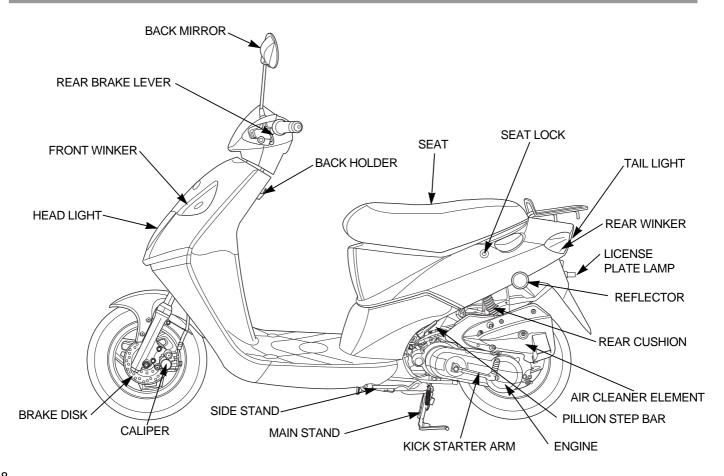
# **MUFFLER**

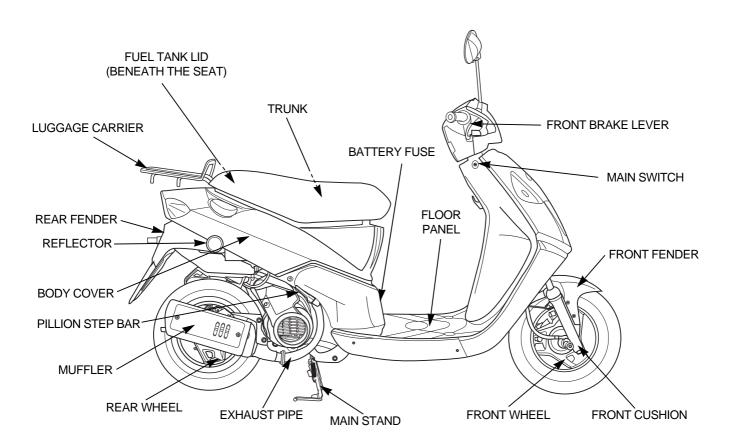
 Pay particular attention to fellow passenger so that he/she can prevent getting burnt by the hot muffler during travel.

# **A** CAUTION

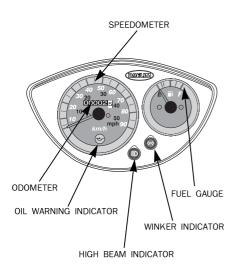
- Do not park in the place where many pedestrians are passing through. Pedestrians or children can be burned by contacting with the muffler.
- Fellow passenger care must pay enough attention not to be burn by contacting with the muffler.
- If haystack or vinyl is stuck to the muffler, fire can be occurred.

# **PARTS LOCATION**





#### METER READING AND USAGE



#### METER

#### <SPEEDOMETER>

Indicates driving speed. Maintain legal speed limits to ensure safe operation.

#### <ODOMETER>

Indicates total distance in kilometers travelled by the vehicle.

#### <FUEL GAUGE>

The fuel gauge indicates the gasoline level inside the fuel tank. (The needle will indicate the amount of gasoline in the fuel tank whether the main switch is turned to OFF or ON position.)

Gasoline should be put in the fuel tank as soon as possible if the needle is resting in the red area. When the needle is in the red area, roughly 1.9 liters of gasoline can be put in the vehicle to fill tank.

# **▲** WARNING

• To avoid running out of fuel that may result in a sudden stop.

## WARNING AND INDICATOR LAMPS

#### <OIL WARNING INDICATOR>

When oil in the oil tank is low, the oil warning indicator turns on.

When this happens fill the oil tank wi

When this happens, fill the oil tank with pure oil.

# **A** CAUTION

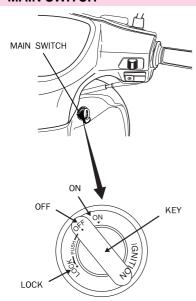
• If the oil warning indicator turns on after the main switch is placed to an "ON" position, quickly fill the oil tank using pure oil

#### <WINKER INDICATOR>

If the winker switch is operated, the winker indicator flashes in union with the flashing of the turn signals.

# SWITCH OPERATION

## **MAIN SWITCH**



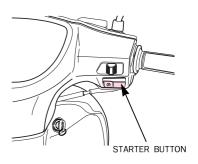
- 1. ON.... Starts engine. Key can not be pulled out.
- 2. OFF....Stops engine. Key can be placed in or taken out of the main switch.
- LOCK....Locks handle bars. Key can be placed in or taken out of the main switch.

# **▲** 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.
- When you park the vehicle and leave it, please lock handle bars and take out the 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)

# STARTER BUTTON



The engine is started pressing this button when pressed in a state where the main switch key is placed to an ON position and the brake lever is pulled.

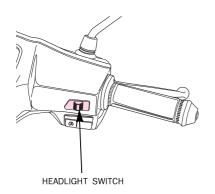
# **▲** CAUTION

- The engine will not start if the brake lever is not pulled.
- Do not hold the brake lever and pull the throttle grip when the engine was started. It may damage the engine.

# **HEADLIGHT**

#### <TURNING ON HEADLIGHT>

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

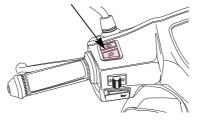


SWITCH POSITION		FUNCTION
<del>-</del> Ö-	(H)	Headlight, taillight, position lamp and meter lights on.
₹00€	(P)	Position lamp, taillight, and meter lights on.
0	(OFF)	Light turned off.

#### <HEADLIGHT HIGH BEAM SWITCH>

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

HEADLIGHT HIGH BEAM SWITCH



# **HIGH BEAM**

 $\equiv D(HI)$  ..... used when needing extra light.

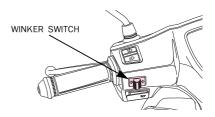
# LOW BEAM

 $\leq$ D(LO) ..... used when other vehicles are present, in the city, etc.

# **A** CAUTION

• Use the high beam only in the suburban road or when the usage of the high beam not hinder the safe driving of the car ahead.

# **WINKER SWITCH**



If this switch is turned on when the main switch is in an ON position, the winker will operate.

 $\Rightarrow$  (R)....used when making a right turn.

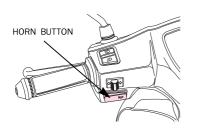
⟨□ (L)....used when making a left turn.

# **A** CAUTION

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.

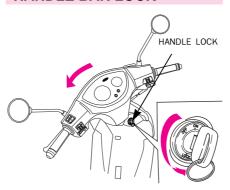
# **EQUIPMENT USAGE**

# **HORN BUTTON**



The horn is sounded if the horn button is pressed when the main switch is in an ON position.

# HANDLE BAR LOCK



When parking, make sure to lock handle bars to prevent theft of the vehicle.

## <LOCKING>

Turn the handle bars all the way to the left, and while pushing on the main switch key, turn the main switch to the LOCK postion.

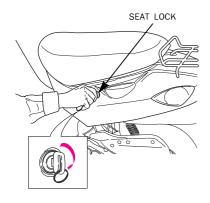
#### <UNLOCKING>

Unlocking is accomplished by simply turning the main switch to the OFF position.

# **▲** CAUTION

- Check to see that the handle bars have been securely locked by lightly moving the handle bars to the left and right.
- Make sure to park the vehicle in a location where traffic and always are not blocked.

# **SEAT LOCK**



# **A** CAUTION

• Do not press starter button repeatedly because it consumes great amount of power causing battery to be exhausted sooner.

**BAG HOLDER** 

BAG HOLDER

- For ease in carrying bags and similar items, they should be hung from the bag holder which is fitted for this purpose.
- Do not attempt to carry very heavy or bulky loads since this would affect the stability and steering characteristics of the scooter.

# **A** CAUTION

• Do not hang valuable or fragile goods on bag holder.

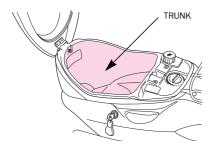
#### <LOCKING>

- The seat automatically locks when the seat is pushed in its downward position,
- Lightly pull upward on the seat to make sure the seat has been properly locked.

#### <UNLOCKING>

• Turn the seat lock switch to the right using the main switch key.

# **TRUNK**



- There is a trunk under the seat.
- The seat is opened to gain access to the trunk by using the main switch key on the seat lock.

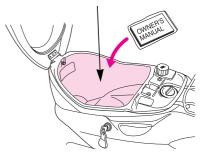
#### TRUNK MAXIMUM LOAD:10kg

# **▲** CAUTION

- Make sure that the seat is securely locked after closing the seat.
- An unlocked seat can hinder the operation of the vehicle.
- The temperature inside the trunk rises due to heat from the engine. Do not place foodstuffs and other articles that can be damaged easily by heat. Also do not place flamm-able materials in the trunk.
- Do not place valuable or fragile goods in trunk.
- As water can enter the trunk when washing, make sure to remove articles that can be damaged by water.

# **DOCUMENT STORAGE AREA**

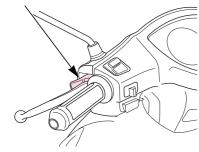
DOCUMENT STORAGE AREA



There is a document storage area on the bottom of the seat. Store the owner's manual and the maintenance notebook in this area.

# **BRAKE LOCK LEVER**

BRAKE LOCK LEVER

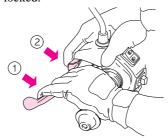


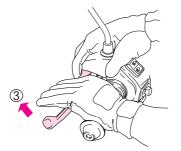
# **▲** CAUTION

 If the rear brake is not adjusted properly, it will not be able to lock.
 Please refer to page 35 for instructions on rear brake adjustment.

#### <SETTING>

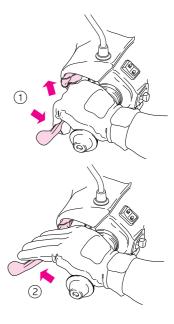
- ① Squeeze tightly on the rear brake lever.
- ② Move the brake lock lever in the direction of the arrow in the drawing and place it in the groove of the brake lever.
- 3 Release your hand from the rear brake lever and the rear wheel will be locked.





#### <RELEASING>

- ① Squeeze tightly on the rear brake lever and the lock lever will be automatically released.
- ② Release your hand from the rear brake lever and the rear wheel will be unlocked.



# CORRECT DRIVING OPERATION

- Make sure to check the oil, gasoline, etc., before starting the engine.
- Please ensure that the main stand is in a down position when starting the engine.

# **▲** CAUTION

- Make sure that the rear wheel is locked when starting the engine to prevent an unexpected quick start of the vehicle.
- Locking is not possible if the rear wheel brake is not adjusted correctly.
- Pay attention so that the hand or any part of the body not to contact with the rear wheel when accelerating the vehicle with the main stand erected since there is danger of injury.
- If the rear wheel contacts with the ground when accelerating the vehicle with the main stand erected, the vehicle can go forward unintentionally resulting in injury of the driver.
- Drive with care for both safety reasons and longer vehicle life.
- For 1 month (or 1,000km) after purchasing the vehicle, drive moderatly avoiding fast starts and fast acceleration.

# STARTING THE ENGINE

Always follow the proper starting procedure described below.

• For model with a side stand switch, the engine cannot be started if the side stand is down.

# **▲** WARNING

- Never run the engine in an enclosed area. The exhaust contains poisonous carbon monoxide gas that can cause loss of consciousness and lead to death.
- While the scooter is on its stand you should NEVER apply full throttle: if the rear wheel touches the ground the scooter would set off at full speed. (Remember that the scooter has a centrifugal automatic speed control.

- 1 Lock the rear wheel.(see p. 16)
- 2 Turn the main switch to an ON position.

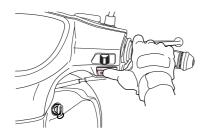


# **▲** CAUTION

- If the oil warning indicator turns on after the main switch is placed to an "ON" position, quickly fill the oil tank using pure oil.
- **3** Start engine with cell or kick.

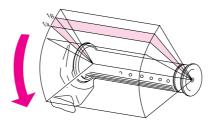
# <USING THE ELECTRIC START(CELL)>

• Press the starter button without rotating the starter grip (opening the throttle).



# **A** CAUTION

- Immediately release the starter button as soon as the vehicle has started.
- Do not press the starter button when the engine is running.
   This can damage the starter motor.
- If the engine is hot and does not start after pressing the starter button for 3~4 seconds, rotate the throttle grip to 1/8~1/4 of a rotation and try again. This will allow easy starting



• It is possible that starting will be more difficult if the vehicle has not been used for a long period of time or if the fuel hole is plugged up(starting problems even when there is sufficient fuel in the fuel tank may be an indication of a plugged fuel hole).

When this happens, do not rotate the throttle grip and try the starter button a few times.

# **▲** CAUTION

• Do not keep the starter button pressed for more than 5 seconds at a time. Release the starter button for approximately 10 seconds before pressing it again.

#### <WITHOUT ELECTRIC START(KICK)>

• Erect main stand and then step kick starter pedal strongly.



# **A** CAUTION

- Make sure to place kick starter in its original position after the engine has been started.
- Be sure to erect main stand and side stand when starting.
- Do not use the starter button and the kick-starter pedal simultaneously.
- When starting with the kick starter, it is not necessary to grab the front and rear brakes.

4 When the engine is cold morning or winter or the vehicle has not been used for a long period of time, let the engine idle for a short period allow the engine to warm up.

# **A** CAUTION

- Keep holding rear brake until start.
- Exhaust has contains harmful substance such as carbon monoxide.
   Start engine in well-ventilated places.

# 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 owner'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.

# **AFTER STARTING ENGINE**

- 1 Fold the main stand.
- Push the vehicle forward to fold the main stand and make sure that the brake lever does not become released during this operation.



# **A** CAUTION

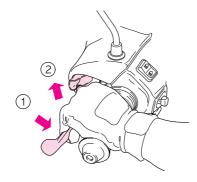
• Do not excessively open the throttle until you actually start the driving operation of the vehicle.

- **2** Get on the vehicle.
- Mounting should be done from the left side, and you should sit squarely on the seat. Leave either one foot or both feet planted on the ground



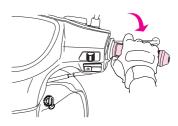
# **A** CAUTION

 Keep holding rear brake lever before starting. 3 Squeeze tightly on the rear brake lever and the lock lever will be automatically released.



# **▲** CAUTION

 Do not rapidly turn the throttle grip when you release the rear brake lock.
 The vehicle may spring out, causing injury or damage. A Release the squeezing tension on the rear brake lever and slowly begin to rotate the throttle grip to allow for a slow and easy start.

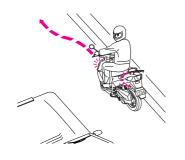


# **▲** CAUTION

- A quick rotating of the throttle grip will cause the vehicle to move suddenly forward.
- If the engine RPM isn't decreased after the throttle grip return to its original position, stop operating and inspect it in the closest authorized repair center.

# PROPER DRIVING METHODS

 Before entering traffic, use the correct turn signal to foreward other drivers of your intentions.

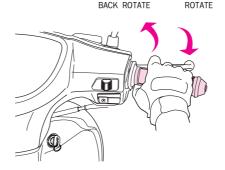


# Speed is controlled by the operation of the throttle grip.

- If the throttle grip is rotated.......

  The speed of the vehicle increases.
  Please rotate the throttle grip slowly.
  When climbing a hill, the throttle grip need to be rotated further to give the vehicle more power.
- If the throttle grip is allowed to rotate back......

Speed decreases. This can be done slowly or quickly, depending on how quickly you need to decelerate.



# Work the front and rear brakes together.

- Allow the throttle grip to rotate back to its beginning position and then squeeze the brake levers.
- If is best to operate the brakes by first lightly squeezing the brake levers and then changing to a more firm squeeze.



# **▲** NOTE

• If only one of the brakes is used, it is possible for the vehicle to experience sliding.

# The brakes should never be suddenly applied and the handle bars should never be suddenly turned.

- Sudden braking or turning can cause the vehicle to slide and tip over.
- It is especially dangerous to perform sudden braking on wet roads or in rainy weather as the tires can lose traction and slip easily.



# **A** CAUTION

- Overspeed driving on the wet road can cause the vehicle to be overturned due the water film effect or slip.
- In case of rain, the vehicle can be slipped on the painted traffic lane when braking suddenly or turning, resulting in the overturn.

# Special care in driving should be taken during rainy weather.

- More braking distance is needed when driving on wet roads or in the rain.
   Reduce speed and be sure to initiate the braking operation sooner than when driving in normal conditions.
- On downgrades, allow the throttle grip to rotate back to its initial position to reduce speed, and apply the brakes and drive slowly down the hill.
- It is possible for the brakes to temporarily lose operative ability after driving through a puddle or when driving in the rain. To ensure that the brakes are operating properly, slow down(after checking for other vehicles) and while driving slowly, lightly apply the brakes to rid the brakes of any excess water and to dry them.
- Be extremely careful when driving in the snow or on icy roads.
   When driving in these conditions, both the tires lose much of their traction and the rear tire can slip when opening the throttle.

#### **STOPPING**

- 1 When approaching the desired stopping area.
- Activate the proper winker, and after checking for other vehicles, slowly turn into the area in which you want to stop.
- Allow the throttle grip to rotate completely back and apply the front and rear brakes. The brake light will shine to alert vehicles in back of you that you are stopping.



- 2 After the vehicle has come to a complete stop.
- Return the winker switch to the center position and turn the main switch to OFF. This will turn the engine off.



# **A** CAUTION

• Do not rotate the main switch key while driving. If the main switch is turned to an OFF or LOCK position, the electrical system will not operate. Operating the main switch key while driving can be very hazardous. Only turn the main switch key to OFF or LOCK position after completing stopping the vehicle.

- **3** Dismount on the left side and lower the main stand on a flat surface.
- Be sure to park in an area that is free of traffic. Also, the vehicle can tip over if the main stand is not placed on a stable and flat surface.
- The main stand is lowered by grasping the handle bars with the left hand, holding the rear carrier with the right hand, and stepping firmly on the stand with the right foot. In this position, lift the rear carrier upward, which will secure the main stand.



4 To prevent theft, be sure to lock handle bars when parking.

# **A** CAUTION

- Park in a safe area that will not block traffic. When you parked the vehicle after driving, make sure foot the vehicle beyond man's reach because engine and muffler are still hot.
- Do not park the vehicle on the inclined road. The vehicle can be overturned and endanger people around.

#### SELF INSPECTIONS BEFORE OPERATION

Self inspect the vehicle and have regular maintenance inspections for increased safety and the prevention of accidents. Regular maintenance inspections should be performed even if the vehicle has not been used for a long period of time.

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

- Inspections of concerned Area
- Fuel check
- Tire inspection
- Brake inspection
- Engine oil check
- Lights and winker inspection
- Back mirror inspection
- Fuel leak inspection
- License plate inspection
- Throttle grip inspection.

# **▲** CAUTION

Observe safety rules when conducting inspections.

- Exhaust gas contains harmful substance such as carbon mono-xide.
   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.
- Use appropriate types of tools.
- 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.
- If happened, contact authorized maintenance shops for necessary inspection and repairs.

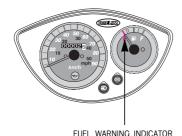
#### **FUEL CHECK**

#### <CHECK>

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

• If the fuel warning indicator turns on after the main switch is placed to an "ON" position, fill fuel tank with gasoline as soon as possible.

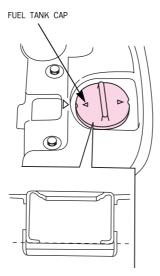
#### **RESERVE FUEL CAPACITY: 1.9** *l*



<REFUELING>

• Use the main switch key to open the SEAT.

- Turn the fuel tank cap counterclockwise, and remove it.
- Fill the tank with gasoline until it reaches the bottom of the level plate.
- Turn the fuel tank cap clockwise until the "△" mark on the fuel tank cap is aligned with the "△" mark located above the fuel tank opening.



# **▲** CAUTION

- Make sure to stop engine and stay away from fire when refueling.
- Do not fill gasoline past the level plate. Gasoline may leak out of the fuel tank when replacing the fuel tank cap if too much gasoline is put in the fuel tank.
- Don't fill low grade gasoline.
   Using it can cause damage (bending, getting worn, etc.) to combustion chamber and parts of fuel.
- Do not close the fuel cap with excessive strength. It may cause the damage of the cap and the rubber packing resulting in the leak of fuel and may cause fire in case of electrical short or the overturn of the vehicle.
- If oil or water enter the fuel tank, the vehicle may not be started.
- If the fuel is leaked by rupture of the fuel hose due to the aging of the hose, fire can be occurred.

  Accordingly, check the hose periodically for the condition.

## TIRE INSPECTION

#### <AIR 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.

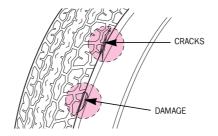
#### <TIRE PRESSURE>

SIZE	FRONT	90/90-10 50J		
SIZE	REAR	90/90-10 50J		
	1 PERSON	FRONT	1.25	
AIR PRESSURE (kgf/cm²)	RIDING	REAR	2.00	
	2 PERSON	FRONT	1.25	
	RIDING	REAR	2.00	



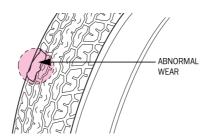
#### <CRACKS/DAMAGE>

Check tire tread and sides for cracks and damage.



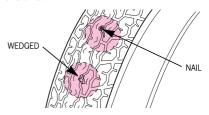
# <ABNORMAL WEAR>

Check tire tread for signs of abnormal wear.



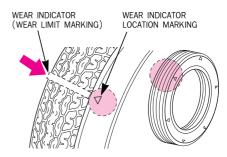
#### <FOREIGN MATERIALS>

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



#### <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.



# **▲** 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.
- Insufficient air pressure may cause the heavy steering wheel making handling difficult, fuel over con-sumption and the excessive wear of tire outer area and excessive air pressure may cause easier wheel handling and lower fuel consumption. But it may also cause the excessive wear of tire center area.
- This vehicle is equipped with tubeless tires. If you have flat tires, please contact authorised maintenance shops for inspection.
- If nonstandardized tire is installed, tire can go flat easily due to the early wear resulted from frame inter-ference, and the vehicle can be overturned resulting in injury of the driver.
- Depositing wasted tire in the unspecified place can pollute the environment and are subjected to legal penalty.

#### **BRAKE INSPECTION**

#### <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



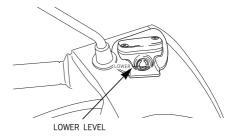
# **A** CAUTION

• Specified brake lever free play must be maintained. Excessive free play may cause long stopping distance, brake operational fault and slow reacting time resulting in the dangerous situation and insufficient free play may cause short stopping distance and damage brake system(pad, lining, etc.)

#### <CHECK OF BRAKE FLUID>

This is checked by placing the vehicle on its main stand on a flat surface. Make sure that the handle bars are at a horizontal level. Check to see if the fluid is below the LOWER level.

If brake fluid is significantly low, this may indicate that there is leakage in the brake system. Inspect the brake hose to check for leaks.



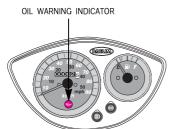
# **A** CAUTION

• If the brake fluid is significantly lower than the specified level, inspect not only brake fluid but also check the front brake pad for wear.

#### **ENGINE OIL CHECK**

#### <CHECK>

If the oil is low, the oil warning indicator will turn on. Turn the main switch to ON in order to check whether the oil warning indicator switches on. If it does, put oil in the oil tank.



# **A** CAUTION

 Do not allow the engine to stay at a low level. The engine will become severely damaged if the vehicle is driven while the oil warning indicator is on.

#### LIGHTS AND WINKER INSPECTION

#### <HEADLIGHT, TAILLIGHT>

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 INSPECTION**

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

#### **FUEL LEAK INSPECTION**

Check to see if there is any leaking fuel by thoroughly checking the fuel tank, hose, carburetor, etc.

#### **A** CAUTION

• If any fuel is spilled, make sure the area is dry before starting the engine.

# LICENSE PLATE INSPECTION

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

	FREQUENCY	ODOMETER READING (NOTE1)					
1	TEM	1,000 km (1MON.)	4,000km (6MON.)	8,000km (12MON.)	12,000km (18MON.)	16,000km (24MON.)	REMARK
*	FUEL LINE		I	I	I	I	
**	FUEL STRAINER		I	I	I	R	
*	THROTTLE OPERATION	I	I	I	I	I	
**	OIL PUMP, OIL LINE		I	I	I	I	
	AIR CLEANER ELEMENT		C	С	С	С	
	SPARK PLUG		I	I	I	I	
**	CARBON REMOVAL			С		C	
*	CARBURETOR IDLE ROTATION	I	I	I	I	I	
	TRANS MISSION OIL	R		I		R	
	BRAKE FLUID	I	I	I	I	R	

	FREQUENCY	UENCY ODOMETER READING (NOTE1)					DEN ( 1 DV
I	TEM	1,000 km (1MON.)	4,000 km (6MON.)	8,000km (12MON.)	12,000km (18MON.)	16,000km (24MON.)	REMARK
*	BRAKE SHOE/PAD WEAR	I	I	I	I	I	
	BRAKE SYSTEM	I	I	I	I	I	MASTER CYLINDER, CALPER
*	BRAKE STOP SWITCH	I	I	I	I	I	
*	HEAD LIGHT ADJUSTMENT		I	I	I	I	
**	CLUTCH SHOE WEAR		I	I	I	I	
*	SUSPENSION		I	I	I	I	
*	NUTS, BOLTS, FASTENERS	I		I		I	
**	WHEEL/TIRE	I	I	I	I	I	
**	STEERING HANDLE BEANING	I		I		I	
**	DRIVE BELT		I	I	I	I	
**	WEIGHT ROLLER		I	I	I	I	
**	SLIDE PIECE		I	I	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.

# **A** 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.

## **TOOL KIT**

The tool kit is under the seat.

Some roadside repairs, minor adjustments and parts replacement can be performed with the tools contained in the kit.

- No. 2 screwdriver
- Screwdriver grip
- 21mm Box wrench
- 5mm Hex wrench
- 8x10mm Spanner
- 10x12mm Spanner
- 14x17mm Spanner
- Tool bag

#### FRAME AND ENGINE NUMBERS

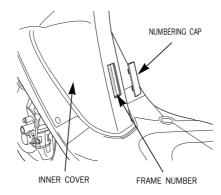
- The frame and engine numbers are needed when registering your vehicle.
- They may also be required by your dealer when ordering replacement parts.
- Record the numbers here for your reference.

FRAME NO.

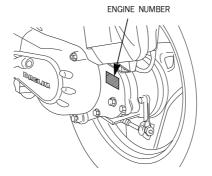
ENGINE NO.

- The frame number is stamped on the left under part of the frame.
- The engine number is stamped on the rear face of the left crankcase.

#### <FRAME NUMBER>



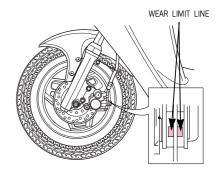
<ENGINE NUMBER>



#### **BRAKE PAD INSPECTION**

Operate the brake lever to check the wear of the brake pad.

While looking at the brake caliper, if the wear limit line is not visible, the pads need to be replaced.



# **A** CAUTION

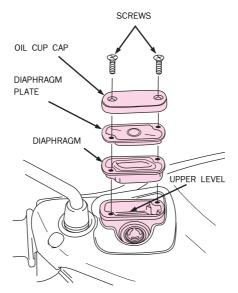
- The brake lever must be operated several times after replacement of the front brake pad.
- If the anticorrosive is applied to the brake disk, braking can not be performed successfully, resulting in the injury or death of the driver in case of accident.

#### REPLENISHING BRAKE FLUID

- Clean dust and other foreign materials around reserve tank to prevent foreign materials from falling inside tank.
- 2. Remove the screws and take oil cup cap, diaphragm plate, diaphragm off.
- 3. Replenish recommended brake oil to the upper level inside reserve tank.

# RECOMMENDED BRAKE OIL IS DOT 3 or DOT 4

- 4. Reinstall the diaphragm, diaphragm plate, and oil cup cap.
- 5. Tighten the screws securely.
- Check the brake pads for wear when refilling with brake fluid.
- A low fluid level may be due to wear of the brake pads.
- If the brake pads are not worn and the fluid level is low, check for leakage.



#### Other checks

 Visually check for fluid leaks or damage and, using a spanner, check joints and clamps for clearance.

Also, check hose and pipe protective parts to see if they contact other parts when turning the handle bars or due to vibration when driving.

# **▲** CAUTION

- When adding brake fluid, be very careful not to allow foreign materials to enter the reserve tank.
  - Foreign materials can clog the system, causing a reduction or complete loss of braking ability.
- Do not fill past upper level.
   This can cause brake fluid to leak out of the reserve tank.
- Do not let brake fluid contact vehicle parts as this damages painted areas.
   If oil contacts parts, quickly clean the fluid off using a dry cloth.
- Use recommended brake fluid as other types can undergo chemical changes.
- If brake fluid is exceedingly low, this can be indication of damage to the brake system.
- A leak in the brake system can lead to reduced braking efficiency and possible loss of braking ability.

#### **BRAKE LEVER ADJUSTMENT**

Brake lever free play is adjusted by rotating the adjuster of the brake arm.

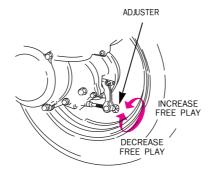
After adjustment, check the brake lever to ensure that the clearance is not above or under the prescribed amount.

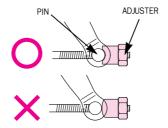
#### BRAKE LEVER FREE PLAY: 10~20mm

## **▲** CAUTION

- ◆ After adjusting the brake, make sure that "" part of the adjuster contacts the pin as in the drawing below.
   Brake clearance can change when driving if this is not done.
- It is not necessary to adjust the front brake.
- If the brake lever free play is significantly decreased, check the front/rear brake pads and the lining.

#### ■ REAR BRAKE

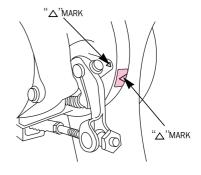




### REAR BRAKE SHOE INSPECTION

After adjusting the brakes, check the wear of the brake shoe. While tightly squeezing the rear brake lever, if the "\(\triangle^{\text{"}}\) mark of the brake arm is alined with the "\(\triangle^{\text{"}}\) mark of the brake panel, this indicates that the brake shoe is worn. Please take the vehicle to a service center for repair.

#### ■ REAR BRAKE



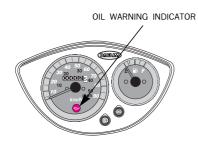
## **A** CAUTION

 If the vehicle becomes worn-out, the replacement cycle of shoe may differ depending on the wear condition of the rim drum.

#### REPLENISHING ENGINE OIL

#### <INSPECTION>

If the oil is low, the oil warning indicator will turn on. Turn the main switch to ON in order to check whether the oil warning indicator switches on. If it does, put oil in the oil tank.

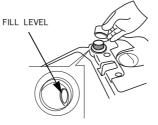


## **A** CAUTION

- Always pay attention to keep up proper oil level. Driving with the oil warning indicator turned on may cause severe damage to the engine.
- Sometimes, the indicator becomes inoperative due to the faulty oil warning indicator switch. Check the engine oil level periodically.

#### <REPLENISHING>

- 1. Set vehicle on main stand in upright position on level ground.
- 2. Open the seat.
- 3. Turn the oil cap counterclockwise, and remove it.
- 4. Fill the oil tank to the fill level.
- 5. Turn the oil cap clockwise, and install it.
- 6. Close the Seat. Check to see if the seat lock has latched.



#### <RECOMMENDED OIL>

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

## **A** CAUTION

- Do not fill past the fill level. Oil will leak out if this is done.
- Immediately replace oil cap after filling oil tank with oil.
- Make sure that foreign materials do not enter the oil tank.
- Do not use other manufacturers oil and do not use low quality oil.

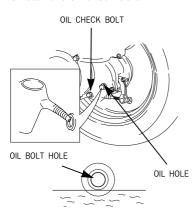
### TRANSMISSION OIL INSPCTION

#### <OIL LEVEL>

- Start the engine and let it idle for a few minutes.
- Stop the engine and put the motorcycle on its mainstand on level ground.
- Remove the oil check bolt and make sure that the oil level is up to the lower edge of the bolt hole.
- If the level is low, fill the recommended oil slowly until the oil overflow through oil hole.

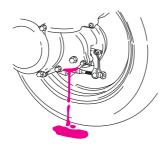
#### RECOMMENDED OIL: SAE #80~90

• Reinstall the oil check bolt.



#### <FLUID LEAK>

Check to see if transmission oil leaks out of the transmission case.



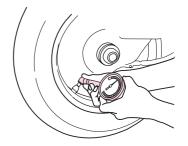
## **A** CAUTION

- Pay special attention not to let rubber etc., enter the check bolt hole.
- When draining the oil, make sure that all of the oil is removed.
- The engine can be harmed if there is too much or not enough oil.
- Do not use other manufacturers oil or low-quality oil. These oils can change quality overtime and can cause damage.

#### TIRE PRESSURE INSPECTION

Check the tire pressure using a tire gauge. Check tire pressure when the tires are cool.

	AIR PRESSURE (kgf/cm²)	1 PERSON RIDING	FRONT	1.25
			REAR	2.00
		2 PERSON RIDING	FRONT	1.25
			REAR	2.00



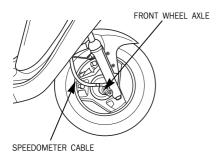
## **A** CAUTION

 If there is an improper amount of air in the tires, or if there are cracks, damage or abnormal wear on tires, this may cause unstable steering or may allow the tires to become easily punctured.

#### WHEEL REMOVAL

#### [FRONT WHEEL REMOVAL]

- 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.

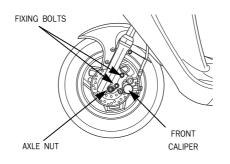


③ Remove the front caliper assembly from the front fork by removing the fixing bolts.

## **A** 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.

## **A** CAUTION

 When installing the wheel, care-fully 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: 6kgf·m

② After assembling, operate brake for a number of times and see if wheel is turning smoothly without getting interruption.

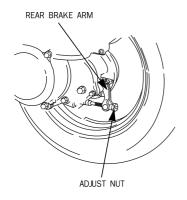
## **▲** WARNING

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

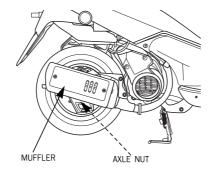
Improper assembly may lead to loss of braking capacity.

## [REAR WHEEL REMOVAL]

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



- (3) Remove the muffler.
- 4 Loosen the rear wheel axle nut.
- ⑤ Remove the lock washer and the rear wheel.



(6) Install in the reverse order of removal.

# REAR AXLE NUT TORQUE: 11kgf·m

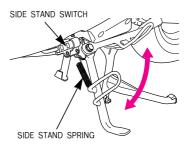
## **▲** WARNING

 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.

#### SIDE STAND INSPECTION

- Erect main stand and place vehicle in up right position on level ground.
- Check the spring for damage or loss of tension and the side stand assembly for freedom of movement.



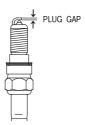
- For model with a side stand switch, check the side stand ignition cut off system;
  - 1 Put the side stand up.
  - ② Start the engine.
  - 3 Lower the side stand. The engine should stop as you put the side stand down.
- If the side stand system does not operate as described, inspect it in the closest authorized repair center.

## **SPARK PLUG**

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

- Put your hand between right body cover and muffler, and remove the spark plug cap.
- ② Clean around the plug.
- 3 Using a plug wrench, remove the plug.
- 4 Clean plug with plug cleaner.
- (5) Check electrode for wear and corrosion.
- 6 Check the plug gap using a feeler gauge.

PLUG GAP: 0.6~0.7mm



Tighten with hands until the plug washer touches cylinder head.

## STANDARD PLUG :BP6HS(DOMESTIC) :BRP6HS(EUROPE)

- If new plug is installed, turn 1/2 and tighten using a plug wrench. (Torque: 14kgf.m)
   If plug is reused, turn 1/3~1/4 and
  - tighten.
- (9) Install in the reverse order of removal.

## **▲** 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 removal.

#### **BATTERY INSPECTION**

- It is not necessary to check the battery electrolyte level or add distilled water as the battery is a maintenance-free type.
- If your battery seems weak and/or is leaking electrolyte (causing hard starting or other electrical troubles), contact your Daelim dealer.

## **▲** CAUTION

• Your battery is a maintenance-free type and can be permanently damaged if the cap strip is removed.

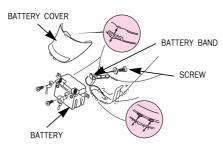
#### <CLEANING BATTERY TERMINALS>

- If the battery terminal is polluted, or in rust, separate battery and clean it.
- Battery terminal in rust with white powder should be cleaned with warm water.
- In case of serious rust of battery terminal, disassemble the battery cord and grind it with wirebrush or sandpaper.



#### <BATTERY REMOVAL>

- 1. Remove the battery cover.
- 2. Loosen the screw and remove the battery band.
- 3. Disconnect the negative(-) terminal lead from the battery first, then disconnect the positive(+) terminal lead.
- 4. Pull out the battery from the battery box.



# **▲** WARNING

- The battery gives off explosive hydrogen gas during normal operation.
- When handling the battery, stay away from flammable materials.
- Wear protective clothing and a face shield, or have a skilled mechanic do the battery maintenance.

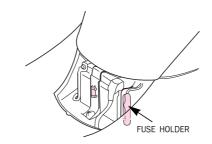
## **A** CAUTION

- Turn the ignition switch OFF before disconnecting the terminal from the battery.
- Make sure that terminals do not contact with other adjacent parts when handling ⊕/⊖ terminal. Contact with other parts may cause spark resulting in electrical equipment malfunction, fire and electric shock.
- Frequent cell starting can shorten the battery lifetime. Please use a kick to start the engine after the long period storage and in case of the initial starting and the cold starting to improve starting performance and extend the battery lifetime.
- When not using vehicle during a long time, take off the battery from the vehicle to keep from self-discharge and electric discharge. Put the battery in a well ventilated place after charging fully. In case it isn't available to take battery off from the vehicle, disconnect "-" terminal.

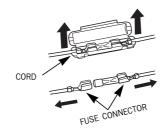
#### **FUSE REPLACEMENT**

Turn off the main switch to see if the fuse is severed. If the fuse is severed, exchange the fuse into 7A fuse.

- To change a fuse, first take off battery cover. Then, disconnect a "fuse connector" after opening a "fuse holder."
- If the fuse immediately becomes severed after being changed with the new one, check another problem of the electric system.



## <DISASSEMBLY>



## <ASSEMBLY>



## **A** CAUTION

- 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 eas-ily, it may cause an accident at heating.
- Do not use a fuse having a larger voltage as the wire can become overheated and damaged.
  - When replacing any of the electri-cal parts (lights and gauges), be sure to replace them with the reco-mmended parts. Using different parts can lead to the fuses burning out or damage to the battery.
- When washing the vehicle, take special care not to allow to be splashed in the area of the fuses.

### **BULB REPLACEMENT**

#### [BULB CAPACITY]

Be sure to use only a bulb of rated capacity.

HEADLIHGT		12V-35/35W	
TAIL/STOP LIGHT		12V-21/5W	
WINKER	FRONT	12V-RY 10WX2	
	REAR	12V-RY 10WX2	

#### [INSPECTION OF STOP LAMP]

Turn a main switch "ON". Check a stop lamp for proper operation by operating the front wheel and the rear wheel brakes, and also a lens for damage or contamination.

## [BULB REPLACEMENT METHOD]

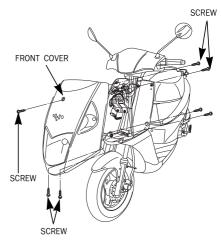
- Be sure to turn a main switch "OFF" prior to replacement of a bulb.
- Use only a bulb of rated capacity.
- After replacement with new bulb, check for proper operation.

## **▲** CAUTION

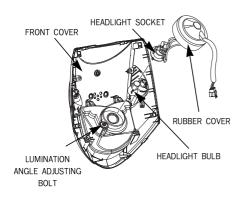
- Care is to be taken to avoid leaving fingerprints on a headlight bulb. Failing to observe this may cause early damage of the headlight bulb resulted from concentration of heat.
- Be sure to wear clean gloves when replacing a bulb. If touched to it with bare hands, clean it with a cloth soaked with alcohol to prevent from early damage.

## [HEADLIGHT BULB]

- Check a switch for proper contacts prior to replacement of a bulb.
- Loosen seven bolts and disconnect a wire, and then disassemble a front cover.



② Disassemble a headlight rear cover by pulling it out, and then disassemble a headlight socket by turning it to counterclockwise.



- ③ Press a headlight bulb with a light force and rotate it to counterclockwise to disassemble it.
- 4 Replace with new bulb. Apply reverse order of disassembly for assembly.

#### **HEADLIGHT BULB: 12V 35/35W**

## [HEADLIGHT LUMINATION ANGLE]

- Adjust headlight lumination angle by turning an adjusting bolt on a headlight. (Use 
   type screwdriver.)
- Adjustment is to be carried out with a front cover not disassembled.

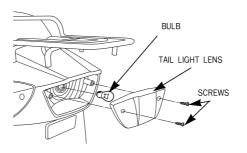
## **▲** CAUTION

 Lumination angle adjusted incorrectly may dazzle a facing driver's eyes or result in difficulty to show the forward.

## [TAIL/STOP LIGHT BULB]

- ① Loosen two screw to disassemble tail light lens.
- ② Press a bulb with a light force and rotate it to counterclockwise to disassemble it.
- ③ Replace it with new bulb. Apply reverse order of disassembly for assembly.

## TAIL/STOP LIGHT BULB: 12V 21/5W



## **▲** CAUTION

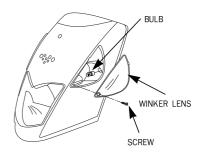
- When disassembling, care is to be taken for ensuring that a tail light lens can not be damaged.
- When replacing a tail light lens, be sure to assemble lens seal securely.

## [WINKER BULB]

## <Front Winker Bulb>

- 1 Loosen one screw to disassemble a winker lens.
- ② Rotate a bulb to counterclockwise to disassemble.
- ③ Replace it with new bulb. Apply reverse order of disassembly for assembly.

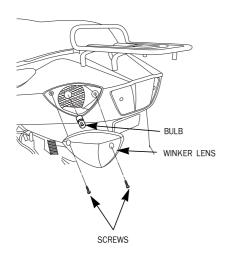
#### FRONT WINKER BULB: 12V RY 10W



#### <Rear Winker Bulb>

- Loosen two screws to disassemble a winker lens.
- ② Rotate a bulb to counterclockwise to disassemble.
- ③ Replace it with new bulb. Apply reverse order of disassembly for assembly.

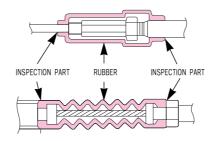
#### **REAR WINKER BULB: 12V RY 10W**



### **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.



## **A** 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 accelation and braking force decrease. If any damage is found, replace with the new on immediately.

#### AIR CLEANER ELEMENT INSPECTION

#### <REMOVAL>

- ① Loosen the 5 washer screws and remove the air cleaner case cover.
- ② Inspect the air cleaner element.
- ③ Install in the reverse order of removal.



#### <CLEANING>

- Clean the air cleaner element in clean oil, squeeze excess oil, and then, wrapping it in a dry cloth, squeeze it again.
- Make sure all excess oil removed and reassemble the air cleaner element.

OIL: SAE #80 ~ 90



## **▲** CAUTION

- Do not use gasoline or other materials having a low ignition point as this can be a fire hazard.
- If the air cleaner element is inadequately assembled, dust and other waste materials can directly enter the engine. This results in increased cylinder wear and redu-ced power, and reduced durability of the engine.
- When washing the vehicle, be careful not to allow water to get into the air cleaner.
  - Difficulties in starting the engine may result if this happens.
- If the engine start is failed during rain or after driving across water pool, check to see if the water is infiltrated in the air cleaner and clean it.
- Do not drive in the flooded area. If the water enters the air cleaner or engine, the vehicle may be subjected to the rear-end collision due to the power failure.

## **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 24).
  - 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

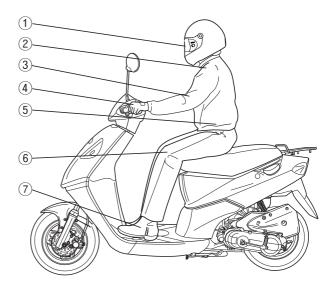


#### **DRIVING METHOD**

## **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.

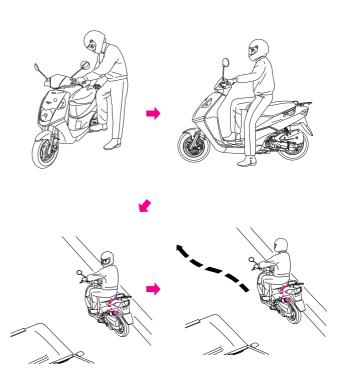
## **STARTING**

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.

## **A** CAUTION

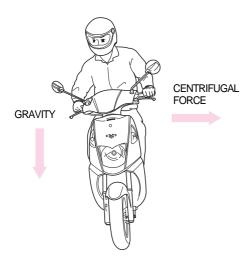
- Return the side stand to its original position. Keep driving without doing this may cause turnover accident.
- •Drive the vehicle only on the driveway. Driving on the walkway can cause accident. Also, if the wheel is transformed when advancing directly to the walkway, the vehicle can be overturned resulting in injury of the driver due to the driving unstability.
- Overspeed driving on the unpaved road can cause the vehicle to be overturned resulting in injury of the driver due to the driving unstability.
- 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.



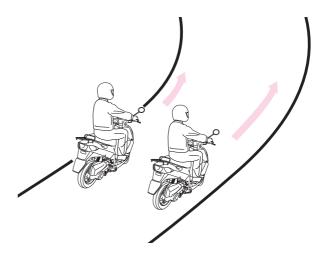
## **TURNING METHOD**

## PRINCIPLE OF TURN

## **EFFECT OF SPEED**



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



The centrifugal force increases in inverse portion to the radius of a curve and in portion 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 slippy 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.

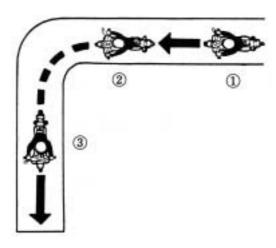


#### < LEAN-OUT >

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 slippy 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**



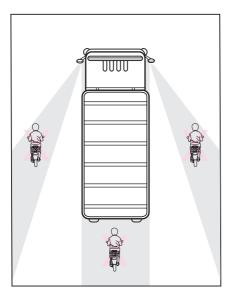
- ① Turn the throttle grip to its original position and decelerate using both front and rear brakes.
- ② Lean the vehicle toward inside of turn circle while driving slowly at constant speed.
- ③ Accelerate gradually.

## PRECAUTION WHEN TURNING

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

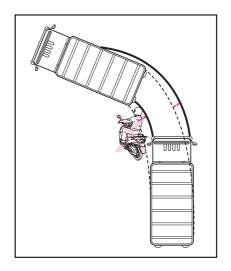
## < DEAD ANGLE ZONE >

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



#### < DISTANCE BETWEEN THE FRONT AND REAR WHEEL TURN >

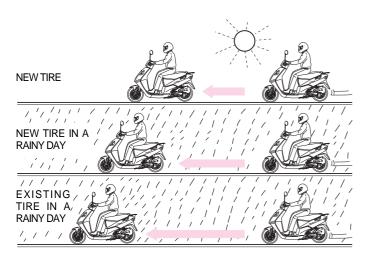
It is distance between path of the front and rear wheel and increases in proportion to the length of the vehicle.



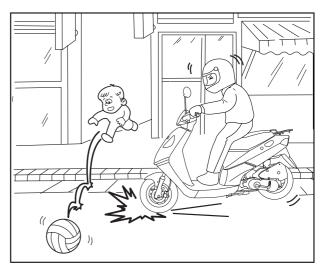
## **BRAKING METHOD**

# 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, vehicle 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 vehicle straight.
- Brake using both front and rear brakes.

## **COMPARISION OF BRAKING DISTANCE**

· Vehicle speed: 50 km/h



When using both front and rear brakes



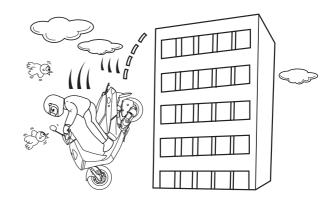
When using only front brake



When using only rear brake

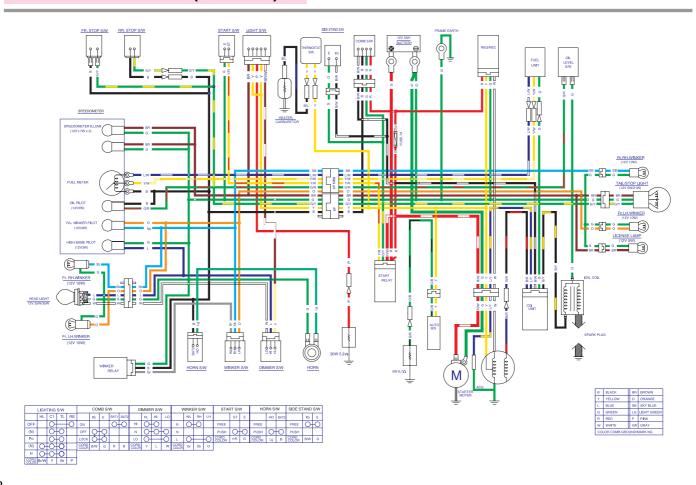
## **IMPACT WHEN COLLISION**

Learn the proper braking method to prevent accident.

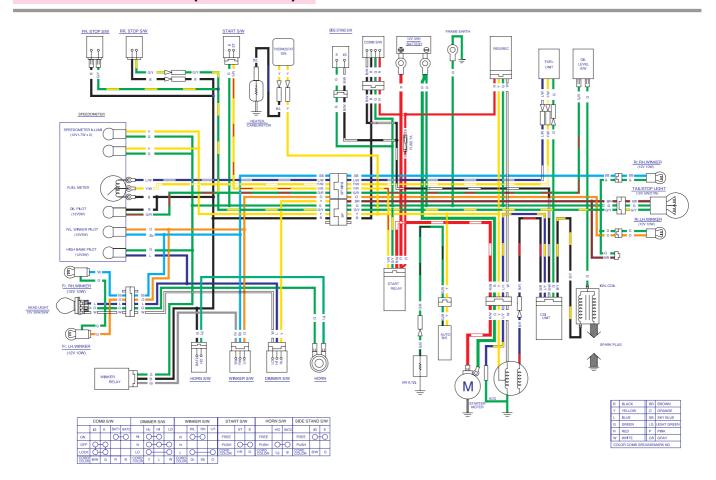


Impact increases in proportion to the speed and weight. The impact when collision to concrete wall at 50 km/h is same as one when falling from the height of 10m.

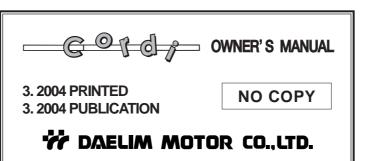
# **WIRING DIAGRAM (EUROPE)**



# WIRING DIAGRAM (DOMESTIC)



MEMO :		





http://www.daelimmotor.com

■ HEAD OFFICE (FACTORY) #58, SUNG SAN-DONG, CHANG WON, KYUNGNAM, KOREA TEL: (82-55) 239-7000 / FAX: (82-2) 467-9997