

Read this manual carefully.

This Owner's Manual contains important information on safety, operation and maintenance of your KYMCO Grand Dink scooter. Any one who operates your scooter should carefully read and understand the contents of this manual before riding the scooter. For your safety, understand and follow all of the warnings contained in this Owner's Manual and the labels applied to your scooter. This Owner's Manual should be considered a permanent part of the vehicle, keep it with your scooter at all times.

Particularly important information is called out in this manual by the following icons and notations:



The SAFETY ALERT symbol with the exclamation point in the triangle means ATTENTION! BE ALERT! YOUR SAFETY CAN BE AFFECTED.

 **WARNING**

Failure to follow instructions associated with a WARNING symbol could result in severe injury or death to the rider, a passenger, a bystander, or a person inspecting or repairing the scooter.

 **CAUTION**

A CAUTION symbol indicates that special precautions must be taken to avoid damaging the scooter.

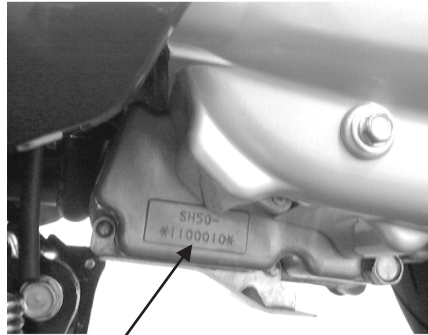
■ **NOTE**

The NOTE symbol indicates key information about a procedure or to clarify an operation.

Identification Numbers Record



①



②



③

1. VEHICLE IDENTIFICATION NUMBER (VIN)

2. ENGINE SERIAL NUMBER (ESN)

3. FRAME SERIAL NUMBER (FSN)

Record the Vehicle Identification Number ①, Engine Serial Number ② and Frame Serial Number ③ in the boxes above for future reference (to assist you in ordering parts from your authorized KYMCO dealer or for reference in case the vehicle is stolen).



MILER	125
Grand Dink	125
Grand Dink	150
Grand Dink	250
Grand Vista	250



OWNER'S MANUAL

Do not remove this Owner's Manual from the vehicle. Read this manual carefully before operating the vehicle as it contains important safety information.

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SECTION 1 - FORWARD & SAFETY INTRODUCTION

Thank you for purchasing this KYMCO Grand Dink scooter, and welcome to the KYMCO riding family.

Please read this owner's manual carefully before riding so that you will be thoroughly familiar with the proper operation of your scooter controls, its features, capabilities, and limitations.

To ensure a long, trouble-free life for your scooter, provide it with the proper care and maintenance as described in this manual.

For replacement parts and accessories, you should always use genuine KYMCO products, as they have been specially designed for your vehicle and manufactured to meet KYMCO's demanding standards.

Keep this owner's manual aboard your scooter at all times so that you can refer to it whenever you need information. This manual should be considered a permanent part of the scooter and should remain with the scooter when it is sold.

All information, illustrations, photographs and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or other changes, there may be information in this manual that differs slightly from your vehicle. KYMCO reserves the right to make product and publication changes at any time without notice and without incurring any obligation.

SCOOTER SAFETY

IMPORTANT SAFETY INFORMATION

Your scooter can provide you many years of service and pleasure if you take responsibility for your own safety and understand the challenges that you can meet on the road. There is much that you can do to protect yourself when you ride. You will find many helpful recommendations throughout this manual. Here are some very important safety tips:

Wear a helmet

Scooter safety equipment starts with a quality helmet. One of the most serious injuries you can suffer in a crash is a head injury. Always wear a properly approved helmet. You should also wear suitable eye protection.

Make yourself easy to see

To make yourself more visible, wear bright reflective clothing, position yourself so other drivers can see you, signal before turning or changing lanes, and use your horn when it will help others notice you.

Know your limits

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

Keep your scooter in safe condition

For safe riding, it's important to inspect your scooter before every ride and perform all recommended maintenance. Never exceed load limits, and only use accessories that have been approved by KYMCO for this scooter.

Inspect your scooter before riding

Do not forget to perform an entire safety inspection to ensure you, and your passenger's safety, before each ride.

Be extra safety conscious on bad weather days

Riding on bad weather days, especially wet ones, requires extra caution. Braking distance can double on a rainy day. Stay off of the painted surfaces, manhole covers and greasy appearing areas on the pavement, as they can be especially slippery. Use extreme caution at railway crossings and on metal gratings and bridges. Whenever you are in doubt about the road conditions, slow down.

Modification

Modification of your scooter, or removal of original equipment may render the vehicle unsafe or illegal. Obey all applicable equipment regulations in your area.

SCOOTER SAFETY

PROTECTIVE APPAREL

For your safety, always wear an approved motorcycle or scooter helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket whenever you ride your scooter.

Helmets and protection

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. Your helmet should fit your head comfortably and securely. Always wear a face shield or goggles to protect your eyes and to aid your vision.

Additional riding gear

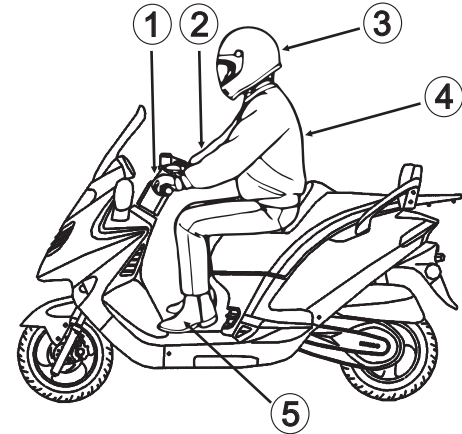
In addition to a helmet and eye protection, you should also use:

- Sturdy boots with nonslip soles to help protect your feet and ankles.
- Leather gloves to keep your hands warm and help prevent blisters, cuts, burns and bruises.
- A motorcycle or scooter riding suit or jacket that has been designed for comfort as well as protection. Bright colored and reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your scooter.



WARNING

Not wearing a helmet increases your chance of serious injury or death in a crash.



- ① Wear gloves
- ② Clothes should be fit properly (not too tight or loose)
- ③ Always wear a helmet. You should also wear eye protection
- ④ Wear bright or reflective clothing
- ⑤ Footwear should be the proper size, have low heels, and offer ankle protection



WARNING

Be sure you and your passenger always wear an approved motorcycle helmet that fits properly. You should also wear eye protection and other protective apparel when you ride.

ACCESSORIES & MODIFICATION

There is a large variety of accessories available to KYMCO scooter owners. KYMCO cannot have direct control over the quality or suitability of accessories you may wish to purchase. The addition of unsuitable accessories to your scooter can lead to unsafe operating conditions. It is not possible for KYMCO to test each accessory on the market or combinations of all the available accessories; however, your KYMCO dealer can assist you in selecting quality accessories and then install them correctly.

Use extreme caution when selecting and installing the accessories for your scooter.

No modifications

KYMCO strongly advises you against removing any original equipment or modifying your scooter in any way that would change its design or operation.

WARNING

Improper accessories or modifications can make your scooter unsafe and can lead to an accident. Never modify your scooter through the improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine KYMCO or equivalent components designed for use on this scooter and should be installed and used according to instruction. If you have any questions, consult an authorized KYMCO dealer.

LOCATION OF PARTS & CONTROLS

- ① Windshield
- ② Rear brake fluid reservoir
- ③ Headlamp
- ④ Left rearview mirror
- ⑤ Fuel filler cap
- ⑥ Side stand
- ⑦ Center storage compartment (under seat)
- ⑧ Rear carrier
- ⑨ Taillamp, stoplamp
- ⑩ Air filter
- ⑪ Left passenger foot peg
- ⑫ Center stand



■ **NOTE:** Your scooter may differ slightly in appearance from the images in this manual.

LOCATION OF PARTS & CONTROLS

- ⑬ Right review mirror
- ⑭ Front brake fluid reservoir
- ⑮ Throttle grip
- ⑯ Ignition switch
- ⑰ Battery, fuse box, and spare fuses (under seat)
Center compartment light, cell phone socket (under seat)
Cell phone holder (under seat)
- ⑱ Oil filler cap/Dipstick
- ⑲ Right passenger foot peg



■ **NOTE:** Your scooter may differ slightly in appearance from the images in this manual.

SECTION 2 - CONTROLS&FEATURES

IGNITION SWITCH

To operate the ignition switch and it's functions:


“ ” Position:

All electrical circuits are off. The engine will not start or run.



“ ” Position:

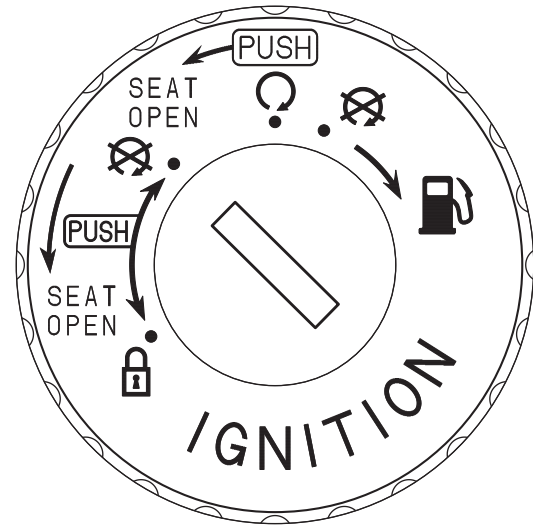
The ignition circuit is "ON" and engine can now be started. The key can not be removed from the ignition switch in this position.

“ ” Position:

To lock the steering, turn the handlebar all the way to the left, push down and turn the key to the “  ” position and remove the key. All electrical circuits are off.

“ ” Position:

To open the fuel filler cap, turn the key to the “  ” position. Make sure that the key is at the “  ” position when starting the engine.



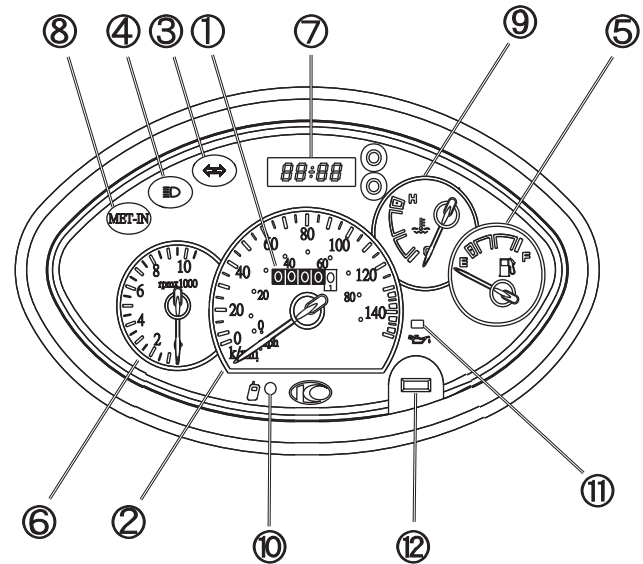
CONTROLS & FEATURES

Instruments

- ① Odometer: Indicates the total riding mileage of the scooter.
- ② Speedometer: Indicates the road speed in MPH (miles per our) and K/PH (kilometers per hour).
- ③ Turn Signal Indicator Light: Flashes when either turn signal is being used.
- ④ High Beam Indicator Light: This light is illuminated when the headlight high beam is on.
- ⑤ Fuel Gauge: This gauge indicates the amount of gasoline in the fuel tank. As the needle approaches "E" that indicates the tank is near empty and should be be refilled with unleaded gasoline.
- ⑥ Tachometer: Indicates the engine speed in the revolutions per minute (RPM)
- ⑦ Clock
- ⑧ Seat unlock indicator "MET-IN": If this indicator is lit, it means the seat is not locked in the closed position.
- ⑨ Coolant temperature gauge: Indicates engine coolant temperature when the engine is running.
- ⑩ Cell phone socket indicator: Lights when the cell phone recharging socket is being used.

- ⑪ Oil Service Indicator: This indicator will be changed to red when the mileage has been reached for the next engine oil service.


■ **NOTE:** After changing the engine oil, the oil service indicator should be reset. Press the ignition key into the slot " ⑫ " on the upper edge of the instruments.



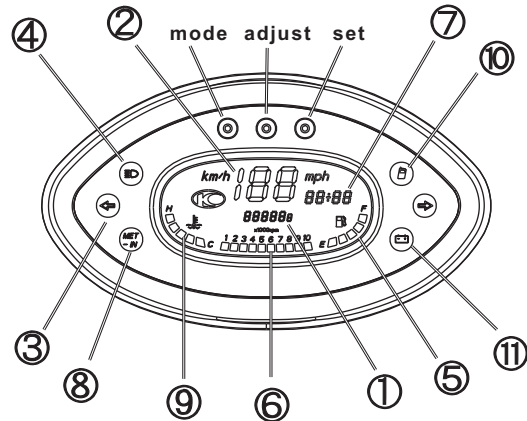
<Grand Dink 125/150>

CONTROLS & FEATURES

Instruments

- ① Odometer/Tripmeter: Press the "mode" button to toggle between the overall and trip mileage, or to reset the tripmeter.
 - Press the "mode" button
 - Press the adjust button for two second and then the figure reset automatically
- ② Speedometer: Indicates the road speed in MPH (miles per our) and K/PH (kilometers per hour).
- ③ Turn Signal Indicator Light: Flashes when either turn signal is being used.
- ④ High Beam Indicator Light: This light is illuminated when the headlight high beam is on.
- ⑤ Fuel refill indicator "  ": This indicator lights when the fuel tank is near empty to alert the rider to refill the fuel tank as soon as possible.
- ⑥ Tachometer: Indicates the engine speed in the revolutions per minute (RPM)
- ⑦ Clock
- ⑧ Seat unlock indicator "MET-IN": If this indicator is lit, it means the seat is not locked in the closed position.

- ⑨ Coolant temperature gauge: Indicates engine coolant temperature when the engine is running.
- ⑩ Cell phone socket indicator: Lights when the cell phone recharging socket is being used.
- ⑪ Battery indicator: This telltale indicator lights when the battery voltage falls below 11 volts.



<Grand Dink 250>

CONTROLS & FEATURES

Right handlebar switch

Headlight switch ① " ☀ " position:

The headlight and taillight will be lit.

" ≡ < > ≡ " position:

The position light and taillight (running lamps) will be lit.

" ● " position:

The headlight and taillight will be off.

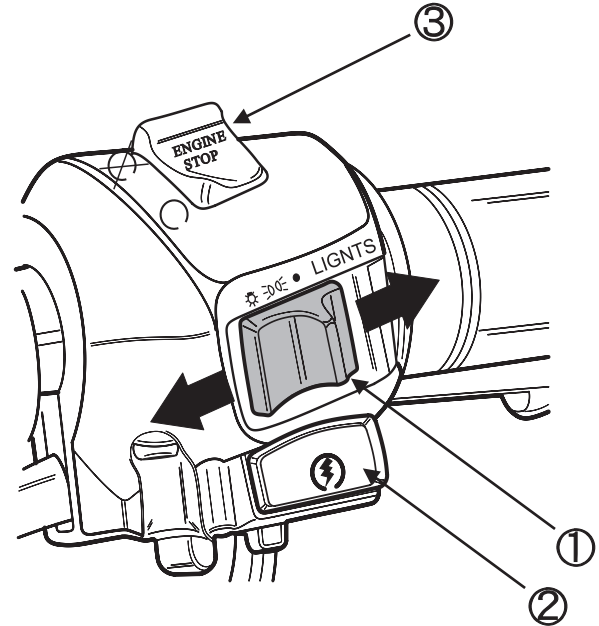
■ **NOTE:** Not all Grand Dink scooters have switches that control the headlight circuit. Depending upon country and state regulations, your scooter's controls may differ from the switches described here.

Electric starter button ② " ⚡ " position:

Press the electric starter button to activate the starter motor.

■ **NOTE:** The starter motor will not engage unless a brake lever is squeezed at the same time the starter button is pressed.

For Grand Dink250 only, is also equipped with an safety interlock that prevents the starter motor from being engaged unless the side-stand is fully up.



CONTROLS & FEATURES


Engine stop switch ③ " " position:

The ignition circuit is off. The engine will not start or run.

" " position:

The ignition circuit is on, and the engine can start and run.

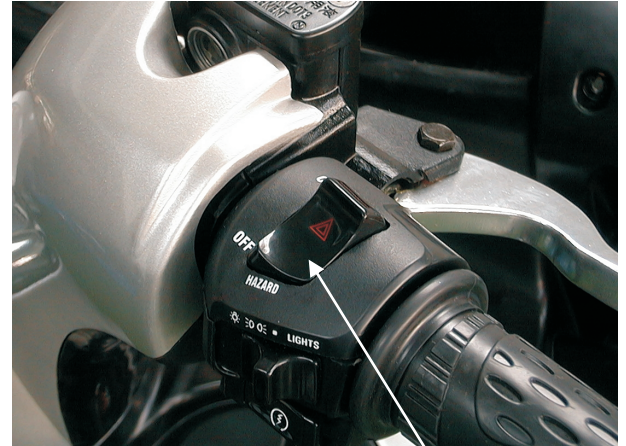
Hazard switch ④ " " position:

Flipping this switch to the "  " position will cause all of the turn signals to flash together, indicating a hazard to other traffic. Returning the switch to "OFF" will cancel the hazard flashing.

■ **NOTE:** When either turn signal is flashing, the hazard switch will not work. The hazard switch will still operate when the ignition is "OFF"

WARNING

Turn on the hazard flasher switch when parking in a hazardous position or there is a special need to alert other traffic. Once the hazard switch is turned on, it will not reset automatically, so be sure to turn it "OFF" after use to avoid confusing other traffic.



④

<For Grand Dink 125/150 only>

CONTROLS & FEATURES

Electric mirror switch ⑤ " " position:

Flipping this switch to the " " position will cause all of the back mirror to open together.

" " position:

Flipping this switch to the " " position will cause all of the back mirror to close together.

Left handlebar switch

Turn signal switch ⑥ :

Use the turn signal indicator to signal to other traffic your intention to turn or change lanes. The turn signal light on the dash will flash to alert the rider that the switch is engaged.

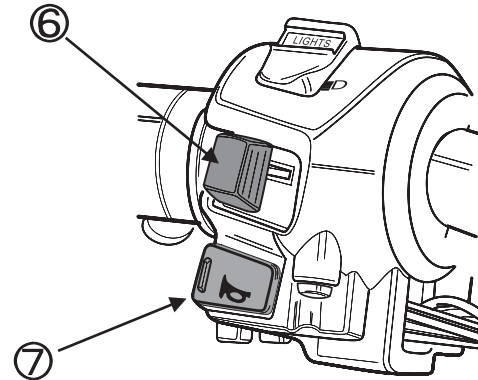
" ← " for turning to the "left".

" → " for turning to the "right".

To cancel the turn signal, press the switch in when it is in the center position.

Horn button ⑦ :

Press the horn button to sound the horn.



CONTROLS & FEATURES

Dimmer switch ⑧ :

"☰D" switch position turns the headlight low beam on.

"☰D" switch position turns the headlight high beam on and the high beam indicator light on the dash is activated as well.

Passing light button ⑨ :

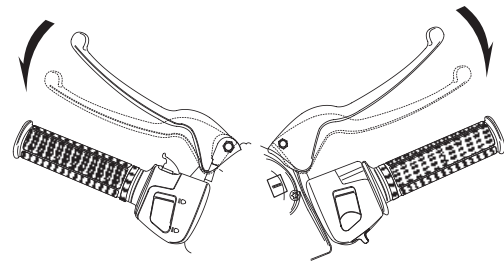
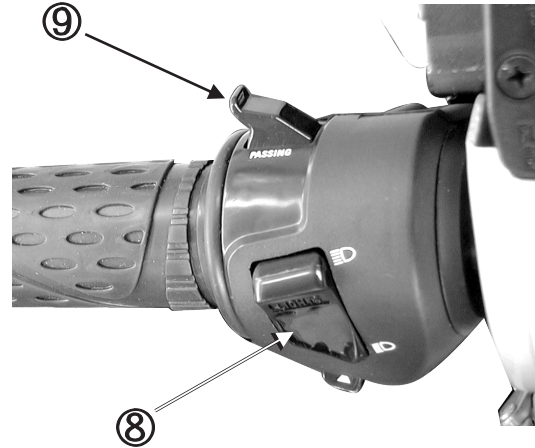
Use this button to rapidly flick the headlamp high beam on and off to signal other vehicles that you wish to pass.

Combination brake lever (left handlebar)

Apply the front and rear brakes squeezing the left hand brake lever gently towards the grip. The brake light will illuminate when the lever is squeezed.

Front brake lever (right handlebar)

Apply the front brake only by squeezing the right hand brake lever gently towards the grip. The brake light will illuminate when the lever is squeezed.



CONTROLS & FEATURES

Fuel level inspection / Refilling

When the fuel level gauge needle approaches "E" (indicating the tank is nearly empty) refill the tank with unleaded gasoline.

To open the fuel filler cap:

Turn the ignition switch key from the "⊗" position to the "🚗" position, and the fuel filler cap ⑩ will open.

Fuel recommendation

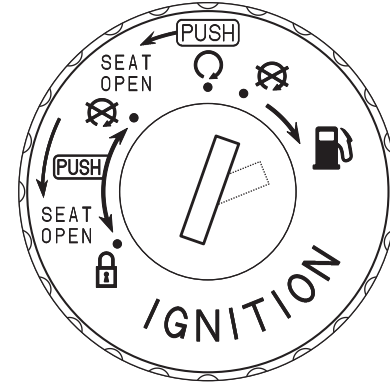
Use unleaded gasoline with a research octane number of 91 or higher to prevent from spark plug and exhaust component damaged.

After refueling, be sure to close the filler cap securely.

WARNING

Gasoline is highly flammable and explosive. You can be burned or seriously injured while handling fuel.

- * Stop the engine and keep heat, sparks, and flame away.
- * Refuel only out doors.
- * Clean up fuel spills immediately.



⑩

CONTROLS & FEATURES

Seat

To unlock the seat

⑪ With the ignition key at the "🔑" position (the engine is running), push the key in and turn it counterclockwise from "🔑" to the "SEAT OPEN" position.

⑫ With the ignition key in the "🔒" position (the engine is not running), turn the counter-clockwise from the "🔒" to the "SEAT OPEN" position.

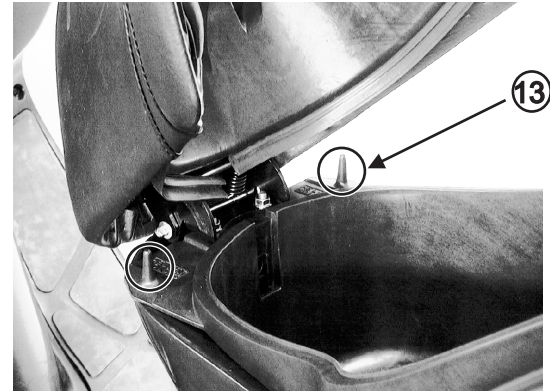
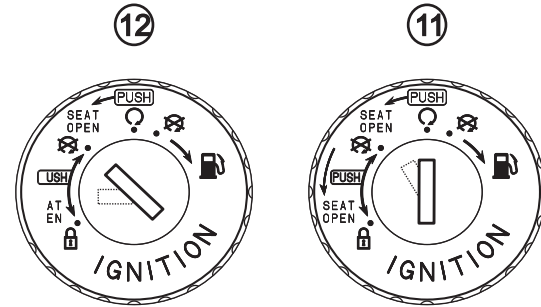
Pull up on the back portion of the seat to lift it up.

Helmet holder

To use the helmet holders, open the seat and hook your helmet's fastener ring to the holder ⑬ and close the seat securely.

WARNING

Use the helmet holder only when your scooter is parked. Do not ride with a helmet hanging from the holder.



CONTROLS & FEATURES

Cell phone mount

This scooter is equipped a mount to secure your cell phone while it is charging.

To secure the cell phone in the mount:

Open the hook-and-loop fastening band (14), then press the release button (15) to open the mount's pressure plate (16).

Set the cell phone flat on the mount and push the pressure plate in until it matches the width of the phone. Connect the fastening band and plug the phone's charger into the power socket.

■ **NOTE:** A cell phone charger is not included with your scooter.



Cell Phone Socket

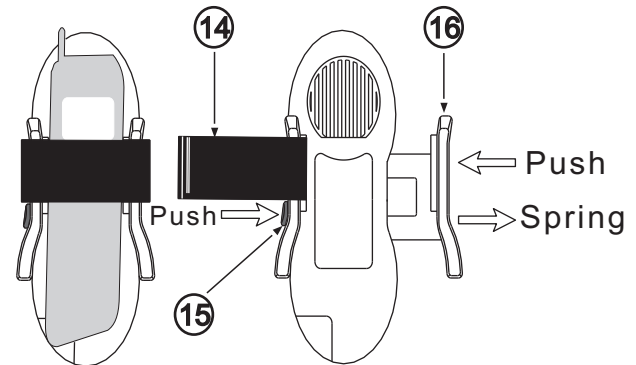


CAUTION

Do not plug any heat-generating accessory such as an automobile cigarette lighter into the power socket because it can damage the socket or the scooter's electrical system.

Do not add electrical equipment that will exceed the accessory socket's capacity, as this may blow the fuse (0.8A) for the cell phone socket.

To avoid damaging your cell phone, follow the charging and use instructions provided by the phone's manufacturer.



<Cell Phone Fixed Stand>

CONTROLS & FEATURES

Suspension

Each shock absorber on your scooter has 3 spring preload adjustment positions for different load or riding conditions.

Use a pin spanner in tool kit to adjust the rear shock spring preload. Position ①⑨ is for light loads and smooth road conditions. Position ①⑦ is for a stiffer rear suspension and can be used when the scooter is heavily loaded.

Standard spring preload position: ①⑧



SECTION 3 - OPERATION

Pre-ride inspection

For your safety, it is very important to take a few moments before each ride to walk around your scooter and check its condition. If you detect any problem, be sure to address it immediately, or have it corrected by your KYMCO dealer.

WARNING

Improperly maintaining your scooter or failing to correct a problem before riding can cause a crash in which you can be seriously hurt or killed.

Always perform a pre-ride inspection before every ride and correct any problems.

1. Engine oil level: Add engine oil if required (page 25). Check for leaks.
2. Fuel level: Fill fuel tank when necessary (page 14). Check for leaks.
3. Coolant level: Add coolant if required. Check for fluid leaks (page 31).
4. Front and rear brakes: Check operation, make sure there is no brake fluid leakage (page 33).
5. Tires: Check condition and inflation pressure (page 35).
6. Throttle: Check for smooth operation and that it closes completely in all steering positions (page 29).
7. Lights and horn: Check that headlight, tail/brake light, turn signals, indicators and horn function properly.
8. Engine stop switch: Check for proper function (page 11).
9. Side stand ignition cut-off system: Check for proper function (page 32).
10. Steering: Check for condition and smoothness.

OPERATION

Starting the engine

Always follow the proper starting procedure described here and on the following pages.

■ **NOTE:** Your scooter is equipped with a side stand ignition cut-off system. The engine cannot be started if the side stand is down. A running engine will shut off if the side stand is lowered. [Grand Dink250 only]




CAUTION

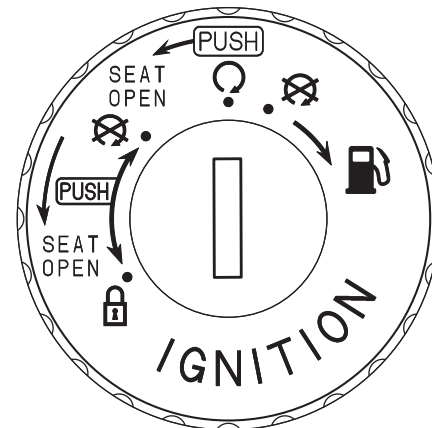
To protect the catalytic converter in your scooter's exhaust system, avoid idling for extending periods of time and do not use leaded gasoline.



CAUTION

To prevent damage to the starter motor, do not operate the starter motor for more than five seconds at a time. If the scooter fails to start immediately, check the fuel level and the battery condition, and allow the starter motor to cool before attempting to start the engine again.

1. Place your scooter on its center stand and put the side stand up.
2. Insert the ignition key and rotate the ignition switch to "  " ON.

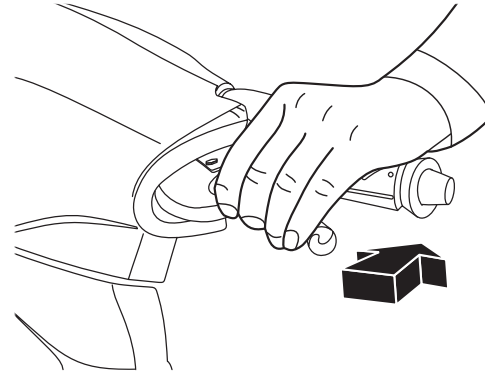


OPERATION

3. Squeeze the left (rear) brake lever.

■ **NOTE:** The electric starter will only work when the left (rear) or right(front) brake lever is squeezed and the side stand is up.

4. With the throttle closed, press the starter button. Release the starter button as soon as the engine starts.



CAUTION

Operating your scooter's engine with insufficient oil pressure can cause serious engine damage.

5. Keep the throttle closed while warming up the engine

6. Keep the engine to warm up fully before riding.



SECTION 4 - MAINTENANCE

The importance of maintenance

Maintaining your scooter properly is essential for safe, economical and trouble-free riding. It will also help reduce air pollution and maximize fuel economy.

To help you properly care for your scooter, the following pages in this Owner's Manual include a maintenance schedule to help you make sure your scooter is serviced at the appropriate intervals.

These instructions are based on the assumption that your scooter 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 KYMCO dealer for recommendations applicable to your individual needs and use.

■ **NOTE:** Always follow the inspection and maintenance recommendations and schedules in this Owner's Manual.

WARNING

If your scooter tips over or becomes involved in a crash, be sure your KYMCO dealer inspects all major parts, even if you are able to make some repairs.

Improperly maintaining this scooter or failing to correct a problem before you ride could result in a crash in which you could be seriously hurt or killed.

WARNING

When performing maintenance on your scooter you may need to start the engine. Running your scooter's engine indoors or in a garage can be hazardous. Exhaust gas contains carbon monoxide, a gas that is colorless and odorless, and can cause death or severe injury. Operate the engine only where there is adequate ventilation, preferably outdoors.

MAINTENANCE

Maintenance schedule

Perform the pre-ride inspection (see page 18) at each scheduled maintenance period. This interval should be judged by odometer reading or months, whichever comes first.

Maintenance schedule legend (see page 23 and 24):

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

C: CLEAN **R:** REPLACE **A:** ADJUST **L:** LUBRICATE

The maintenance schedule on the flowing two pages specifies the maintenance required to keep your Grand Dink scooter in peak operating condition. Maintenance work should be performed in accordance with KYMCO standards and specifications by properly trained and equipped technicians. Your KYMCO dealer meets all of these requirements.

* Should be serviced by your KYMCO dealer, unless you have the proper tools, service data and are technically qualified.

** In the interest of safety, we recommend these items be serviced only by your KYMCO dealer. KYMCO recommends that your KYMCO dealer road test your scooter after each periodic maintenance service is completed.

Maintenance schedule notes (see page 23 and 24):

1. At higher odometer readings, repeat at the frequency interval established here.
2. Service more frequently if the scooter is ridden in unusually wet or dusty areas.
3. Service more frequently when riding in rain or at full throttle.
4. Clean every 1,200 mi (2,000 km) after replacement and replace every 3,000 mi (5,000 km).
5. Replace every 2,500 mi (4,000 km).
6. Replace every 6,000 mi (10,000 km) or once a year. Replacement requires mechanical skill.
7. Replace every 2 years. Replacement requires mechanical skill.

MAINTENANCE

FREQUENCY		WHICHEVER COMES FIRST	ODOMETER READING [NOTE (1)]								REFER TO PAGE	
			X 1000 km	0.3	1	3	5	7	9	11		
ITEM		NOTE	MONTH	X 1000 mi	0.2	0.6	1.8	3	4.2	5.4	6.6	
					3	6	12	18	24	30		
*	AIR CLEANER	NOTE 2			I	R	I	R	I	R		29
	SPARK PLUGS	NOTE 4					R					30
*	THROTTLE OPERATION						I		I			29
*	VALVE CLEARANCE			A		A		A		A		-
*	FUEL LINE						I		I			-
	CRANKCASE BREATHER	NOTE 3			C	C	C	C	C	C	C	-
	ENGINE OIL			R	R	R	R	R	R	R	R	25
*	ENGINE OIL STRAINER SCREEN			C		C		C		C		-
*	ENGINE IDLE SPEED					I		I		I		-
	RADIATOR COOLANT	NOTE 6						R				31
*	COOLING SYSTEM							I		I		31
*	SECONDARY AIR SUPPLY SYSTEM							I		I		-

MAINTENANCE

ITEM		FREQUENCY	WHICHEVER COMES FIRST	ODOMETER READING [NOTE (1)]								REFER TO PAGE
				X 1000 km	0.3	1	3	5	7	9	11	
				X 1000 mi	0.2	0.6	1.8	3	4.2	5.4	6.6	
		NOTE	MONTH		3	6	12	18	24	30		
	TRANSMISSION OIL	NOTE 5		R		R		R		R	29	
*	DRIVE BELT										-	
**	CLUTCH SHOE WEAR										-	
	BRAKE FLUID	NOTE 7							R		33	
	BRAKE PAD WEAR										-	
	BRAKE SYSTEM										-	
*	BRAKE LIGHT SWITCH										-	
	SIDE STAND										32	
*	SUSPENSION										17	
*	HEADLIGHT AIM										-	
*	NUTS, BOLTS, FASTENERS										-	
**	WHEELS/TIRES										35	
**	STEERING BEARINGS										-	

MAINTENANCE

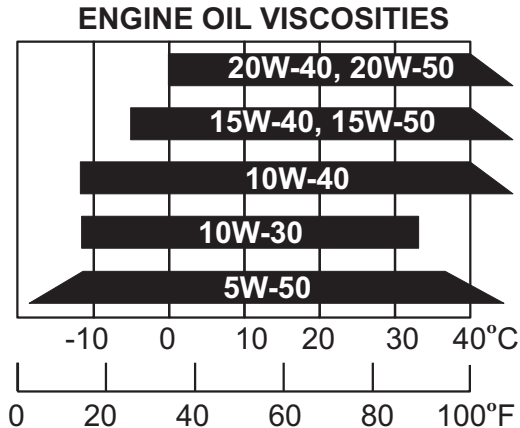
Engine oil

Engine oil recommendation

Use a premium quality 4-stroke engine oil to ensure longer service life of your scooter. Only use oils that have a SJ rating per the API service classification.

Engine oil viscosity : SAE 15W-40

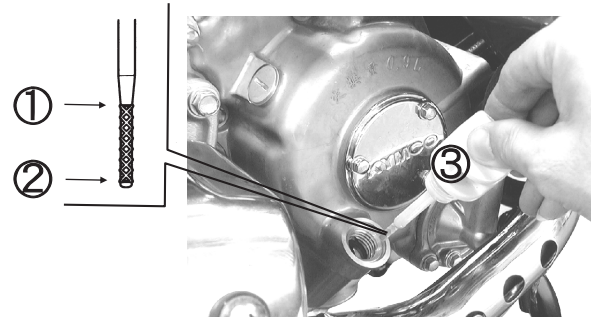
If these viscosities are not available, select an alternative engine oil according to the chart shown below.



Engine oil capacity: 1.2 qt (1.1 L)

Engine oil level inspection

Check the engine oil level each day before riding your scooter. The level must be maintained between the upper ① and lower level ② marks on the oil filler cap/dipstick ③ .



1. Start the engine and let it idle for a few minutes.



CAUTION

Running the engine with insufficient oil pressure can cause serious engine damage.

2. Stop the engine and put the scooter on its center stand on level ground.

MAINTENANCE

3. After a few minutes, remove the oil filler cap/dipstick, wipe it clean, and reinsert the oil filler cap/dipstick without screwing it in. Remove the oil filler cap/dipstick. The oil level should be between the upper and lower marks on the oil filler cap/dipstick.
4. If required, add the specified oil (see page 25) so the oil level touches the upper level mark on the dipstick. Do not overfill.
5. Reinstall the oil filler cap/dipstick ③ . Check for oil leaks.



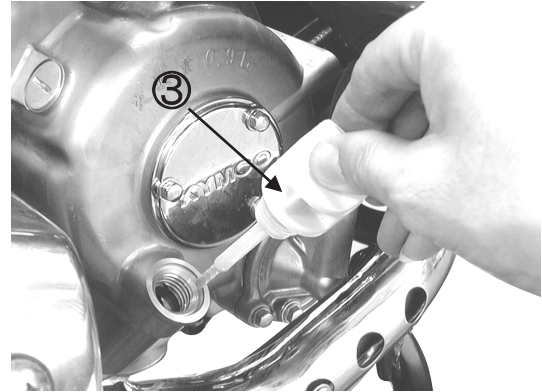
WARNING

The engine and related components can become very hot. Use care when inspecting the oil level so you do not burn yourself. If needed, let the engine and exhaust system cool before working in those areas.

Engine oil replacement

Engine oil quality is the primary factor that affects engine longevity. Change your scooter's engine oil as specified in the maintenance schedule (see page 23).

■ **NOTE:** Change the engine oil with the engine at normal operating temperature and the scooter on its center stand to assure complete and rapid draining.



1. Remove the oil filler/dipstick ③ from the right crankcase cover.
2. Place a suitable container (drain pan) under the left crankcase.

MAINTENANCE

3. Remove the oil drain plug ④ from the crankcase to drain the oil.
4. Reinstall the drain plug and tighten it to the specified torque.

Oil drain plug torque: 18 lb-ft (25 N-m)

5. Add oil to the engine per the amounts listed below, and reinstall the oil filler/dipstick.

Engine oil capacity: 0.95 qt (0.9 L)

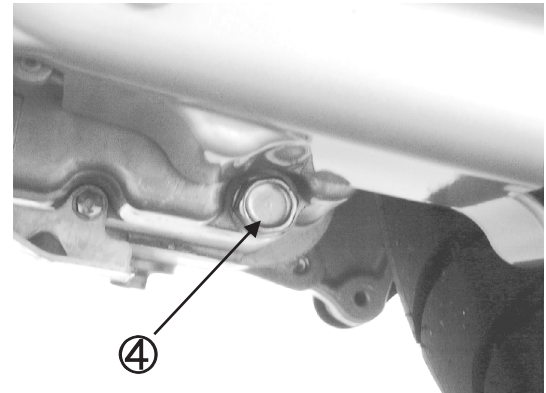
■ **NOTE: Amounts are after draining the oil only.**

6. Start the engine and let it idle for 2 - 3 minutes.
7. Stop the engine and check the oil level on the dipstick when the scooter is parked on the center stand, on level ground.
8. Adjust the oil level as required (so the level reaches the upper mark on the dipstick). Replace the dipstick and inspect for any leaks.



CAUTION

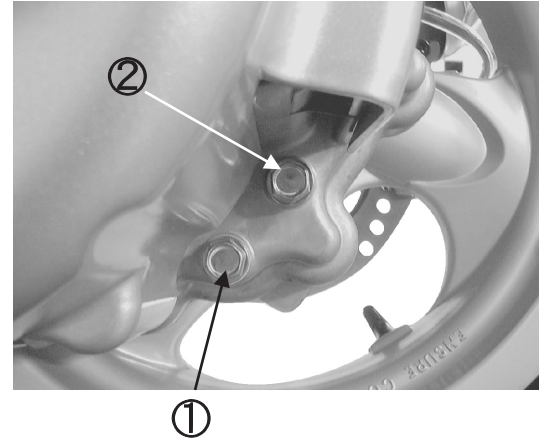
Running the engine with insufficient oil pressure can cause serious engine damage.



MAINTENANCE

Transmission fluid change

1. Place the scooter on its center stand.
2. Remove the transmission fluid drain bolt ① .
3. Remove the transmission fluid filler bolt ②, then slowly rotate the rear wheel to drain the fluid.
4. Fill the transmission with the recommend fluid to the capacity listed below.



Transmission fluid type: SAE 90

**Transmission fluid capacity:
0.2 qt (0.18 L)**

5. Install the transmission filler bolt and tighten it to the specified torque.

**Transmission fluid filler/drain bolt
torque: 15 lb-ft (20 N-m)**

MAINTENANCE

Air cleaner filter element

The air cleaner filter element ① should be serviced at regular intervals by a KYMCO dealer, unless you have the proper tools, service data and are technically qualified to do so.

Have the element serviced more often when riding in unusually wet or dusty areas.

CAUTION

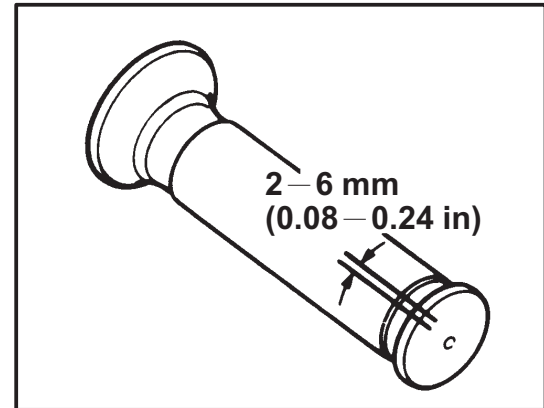
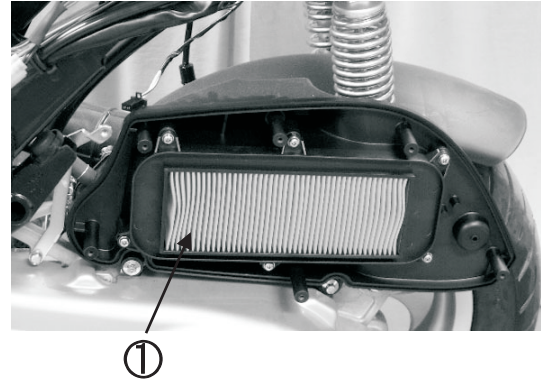
Using the wrong KYMCO air cleaner element or a non-KYMCO air cleaner element which is not of equivalent quality may cause premature engine wear or performance problems.

Throttle operation

1. Before each ride, check for smooth throttle grip rotation from the fully open to the fully closed position at both full steering positions.
2. Measure the throttle grip free play at the throttle grip flange (per the illustration right).

Throttle free play:

0.08-0.24 in (2.0 - 6.0 mm)



MAINTENANCE

Spark plug

Remove the carbon deposits from the spark plug with a small wire brush or a spark plug cleaning machine. After cleaning (or when installing a new spark plug) readjust the spark plug gap to specified limit by using a spark plug gap thickness gauge. The spark plug should be replaced periodically.

Whenever removing the carbon deposits, be sure to observe the color of the removed spark plug's porcelain tip. This color tells you whether or not the standard spark plug is suitable for your type of riding. Under normal usage, a spark plug's porcelain tip should be light brown or tan color.

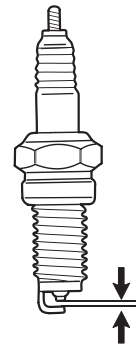
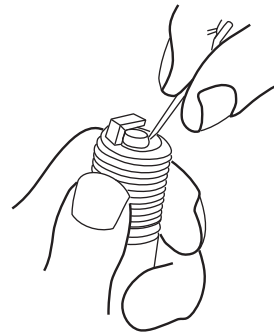
If the spark plug porcelain tip is very white or glazed appearing, then the spark plug has been operating too hot. In such a situation, you should replace the standard spark plug with a spark plug that has a colder heat range (usually a higher number; consult with your KYMCO dealer when selecting an alternate spark plug).

**Recommended spark plug: DPR7EA-9
(NGK)**

CAUTION

An improper spark plug may have an incorrect fit or heat range for your engine. This may cause severe engine damage which will not be covered under warranty. Never use a spark plug with an improper heat range, as severe engine damage could result.

**Spark plug gap: 0.024 - 0.028 in
(0.6 - 0.7 mm)**



MAINTENANCE

Coolant level inspection

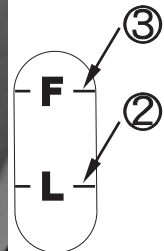
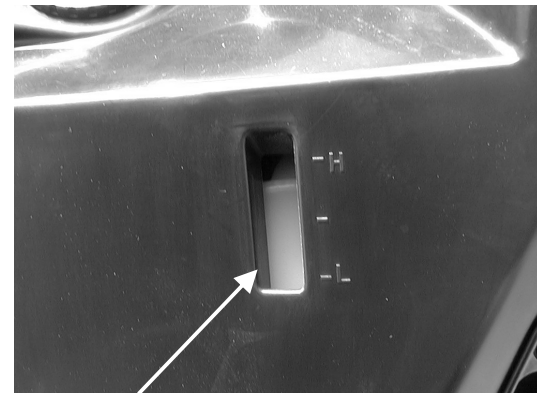
The reserve tank is under front cover. Check the coolant level through the inspection window ① while the engine is at the normal operating temperature, with the scooter in an upright position.

If the coolant level is below the LOWER level mark ②, remove the lid screw ④, the reserve tank lid ⑤, and then the reserve tank cap to add coolant mixture until it reaches the upper level mark ③.

■ **NOTE:** If the reserve tank is empty, or if coolant loss is excessive during use, check for leaks, and see your KYMCO dealer immediately for repair.

WARNING

Add coolant to the reserve tank only. Do not attempt to add coolant by removing the radiator cap. Coolant in the radiator is under pressure and is very hot and can cause serious burns.



①

MAINTENANCE

Side stand

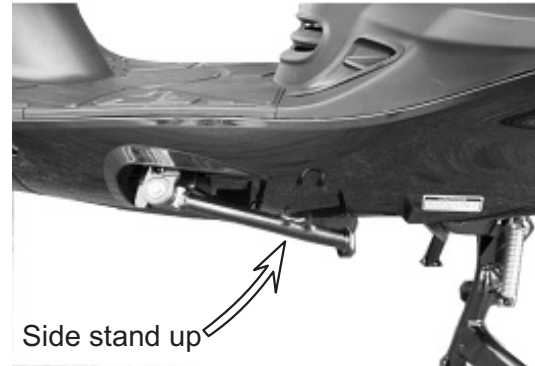
Your scooter's side stand is not only necessary when you park, but it contains an important safety feature. This feature cuts-off the ignition if you try to ride the scooter when the side stand is down. Perform the following side stand inspection.

Interlock function check:

Check the side stand ignition cut-off system:

1. Place the scooter on its center stand.
2. Put the side stand up and start the engine.
3. Lower the side stand. The engine should stop as you put the side stand down.

■ **NOTE:** If the side stand system does not operate as described, see your KYMCO dealer for service.



MAINTENANCE

Brake fluid

Brake fluid level inspection

With the scooter in an upright position, check the front and rear fluid level.

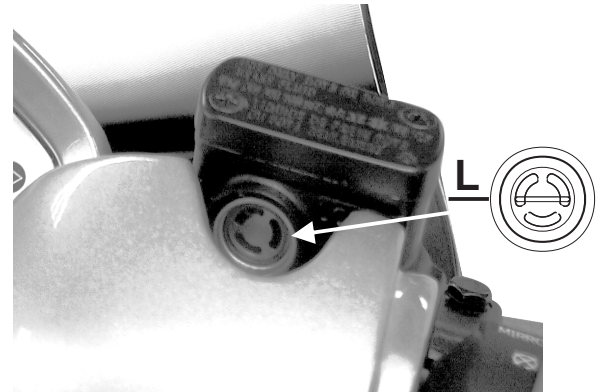
The level should be above the lower level mark. If the level is at or below the lower level mark "L", check the brake pads for wear.

■ **NOTE:** Other checks - make sure there are no fluid leaks. Check for deterioration or cracks in the hoses and fittings.



WARNING

Worn brake pads should be replaced immediately. If the pads are not worn, have your brake system inspected for leaks. Do not ride your scooter unless the brakes are in perfect working order.



Brake fluid type: DOT 4

MAINTENANCE

Battery

Your KYMCO scooter is equipped with a maintenance-free (sealed) type battery so it is not necessary to check the battery's electrolyte level or add distilled water.

■ **NOTE:** If your battery seems weak and/or is leaking electrolyte (causing hard starting or other electrical troubles), contact your KYMCO dealer immediately.



CAUTION

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



Fuses

When frequent fuse failures occur, it usually indicates a short circuit or an overload in the electrical system.

■ **NOTE:** See your KYMCO dealer for electrical system diagnosis and repair.



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.

Fuses list

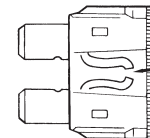
30A ... CHARGE fuse protects battery charging system.

15A ... MAIN fuse protects all electrical circuits.

15A ... HEAD-HI/LO fuse protects the headlight high/lower beam and high beam indicator light.

10A ... IGNITION fuse protects the ignition system.

10A ... FAN fuse protects the cooling fan motor.



BLOWN FUSE

MAINTENANCE

Tires



WARNING

Failure to follow these warnings may result in an accident due to tire failure. The tires on your scooter are a crucial link between your scooter and the road. You and your passenger's personal safety are dependant upon the condition of your scooter's tires.

Follow these instructions:

- Check tire condition and pressure, and adjust the inflation pressure before each ride.
- Avoid overloading your scooter.
- Replace a tire when worn to the specified limit, or if you find any damage such as cuts or cracks.
- Always use the proper size and type of tires as specified in this Owner's Manual.
- Balance the wheel after tire installation.
- Read this section of Owner's Manual carefully.

Failure to perform a reasonable break-in of the tires could cause tire slip and loss of control.

Use extra care when riding on new tires as the grip will be limited. Perform proper break-in of the tires, as stated in the break-in recommendation section of this manual. Avoid hard acceleration, hard cornering, and hard braking for the first 100 miles (160 km).

■ **NOTE:** Check the tire inflation pressure and tire tread condition at the periods listed in the periodic maintenance schedule. For maximum safety and good tire life, the tire pressures should be inspected more often.

Tire pressure

Insufficient air pressure in the tires not only accelerates tire wear but it also affects the stability of your scooter. Under-inflated tires make smooth cornering difficult and overinflated tires decrease the amount of tire in contact with the ground, which can lead to skids and loss of control. Make sure that the tire pressures on your scooter are within the specified limits at all times.

■ **NOTE:** Tire pressure should only be adjusted when the tires are cold.

Front tire (rider only):

125cc/150cc: 25.0 PSI (1.75 kg/cm²)

Rear tire (rider only):

125cc/150cc: 29.0 PSI (2.0 kg/cm²)

250cc: 32.0 PSI (2.25 kg/cm²)

Front tire (rider & passenger):

125cc/150cc: 25.0 PSI (1.75 kg/cm²)

250cc: 29.0 PSI (2.0 kg/cm²)

Rear tire (rider & passenger): 32.0 PSI (2.25 kg/cm²)

EMISSION CONTROL

Crankcase Emission Control System

Your Grand Dink's engine is equipped with a closed crankcase system. Blow-by gases are routed back in to the combustion chamber via the intake system. This system does not allow the blow-by gases to enter the atmosphere.

Exhaust Emission Control System

The exhaust emissions from your Grand Dink scooter are controlled by engine design, factory-set fuel delivery, ignition settings, and exhaust system design. This system also includes a catalyzer in the exhaust system.

Noise Exhaust Emission Control System

The engine, intake and exhaust systems of your Grand Dink scooter were designed to comply with federal, state and local noise level requirements. Do not modify the engine ,intake or exhaust components, as doing so will affect compliance these noise level requirements.

Please do not modify or change any KYMCO-designed components that may alter the sound or emission level from your Grand Dink scooter.

SPECIFICATIONS - GRAND DINK125 / MILER 125

Dimensions

Overall length.....	81 in (2060 mm)
Overall width.....	30 in (770 mm)
Overall height.....	54 in (1360 mm)
Wheel base.....	57 in (1435 mm)

Capacities

Engine oil.....	1.17 US qt (1.1 L)
Transmission oil.....	0.21 US qt (0.2 L)
Fuel tank.....	9.54 US qt (9.0 L)
Maximum weight capacity..	359 lbs (163 kg)

Engine

Type.....	Four-stroke, water-cooled SOHC
Displacement.....	124.6 cm ³ (7.5 cu. in)
Bore and stroke..	2.06in X 2.28in (52.4 X 57.8 mm)
Compression ratio..	10:1
Spark plug.....	DPR7EA-9
Idle speed.....	1700 RPM
Cooling system.....	Water-Cooled
Starting system.....	Electric starter (kicker backup)
Transmission.....	Automatic CVT

Chassis

Tire size, front	120/70-12
Tire size, rear.....	140/70-12
Front suspension.....	Telescopic forks
Rear suspension.....	Double Swing
Brake(front).....	Disk type
Brake(rear).....	Disk type

Electrical

Ignition type	CDI
Battery.....	12v-9Ah
Headlight.....	12v 60/55W
Tail/brake light.....	12v 5/21W
Turn signal light.....	12v 10W X 4
Position light.....	12v5W
Main Fuse.....	15A

SPECIFICATIONS - GRAND DINK150

Dimensions

Overall length.....	82 in (2090 mm)
Overall width.....	30 in (770 mm)
Overall height.....	54 in (1360 mm)
Wheel base.....	57 in (1435 mm)

Capacities

Engine oil.....	1.17 US qt (1.1 L)
Transmission oil.....	0.21 US qt (0.2 L)
Fuel tank.....	9.54 US qt (9.0 L)
Maximum weight capacity..	359 lbs (163 kg)

Engine

Type.....	Four-stroke, water-cooled SOHC
Displacement.....	149.5 cm ³ (9.0 cu. in)
Bore and stroke..	2.06in X 2.28in (52.4 X 57.8 mm)
Compression ratio..	10.6:1
Spark plug.....	DPR7EA-9
Idle speed.....	1700 RPM
Cooling system.....	Water-Cooled
Starting system.....	Electric starter (kicker backup)
Transmission.....	Automatic CVT

Chassis

Tire size, front	120/70-12
Tire size, rear.....	140/70-12
Front suspension.....	Telescopic forks
Rear suspension.....	Double Swing
Brake(front).....	Disk type
Brake(rear).....	Disk type

Electrical

Ignition type	CDI
Battery.....	12v-9Ah
Headlight.....	12v 60/55W
Tail/brake light.....	12v 5/21W
Turn signal light.....	12v 10W X 4
Position light.....	12v5W
Main Fuse.....	15A

SPECIFICATIONS - GRAND DINK / GRAND VISTA 250

Dimensions

Overall length.....	81 in (2060 mm)
Overall width.....	30 in (770 mm)
Overall height.....	54 in (1360 mm)
Wheel base.....	57 in (1435 mm)

Capacities

Engine oil.....	1.17 US qt (1.1 L)
Transmission oil.....	0.21 US qt (0.2 L)
Fuel tank.....	9.54 US qt (9.0 L)
Maximum weight capacity..	359 lbs (163 kg)

Engine

Type.....	Four-stroke, water-cooled SOHC
Displacement.....	249 cm ³ (14.9 cu. in)
Bore and stroke..	2.06in X 2.28in (52.4 X 57.8 mm)
Compression ratio..	10.3:1
Spark plug.....	DPR7EA-9
Idle speed.....	1600 RPM
Cooling system.....	Water-Cooled
Starting system.....	Electric starter (kicker backup)
Transmission.....	Automatic CVT

Chassis

Tire size, front	120/70-12
Tire size, rear.....	140/70-12
Front suspension.....	Telescopic forks
Rear suspension.....	Double Swing
Brake(front).....	Disk type
Brake(rear).....	Disk type

Electrical

Ignition type	Digital CDI
Battery.....	12v-12Ah
Headlight.....	12v 60/55W
Tail/brake light.....	12v 5/21W
Turn signal light.....	12v 10W X 4
Position light.....	12v5W
Main Fuse.....	15A