

CHECKING THE SHOE WEAR

Carefully read p. 29 (REAR DRUM BRAKE) and p. 43 (MAINTENANCE).

H50 HC50 Check the wear of the rear brake shoes after the first 500 km (312 mi) and successively every 4000 km (2500 mi).

H125 HC125

Have the rear brake shoe wear checked by an **aprilia** Official Dealer after the first 1000 km (625 mi) and successively every 6000 km (3750 mi).

In any case:

⚠ WARNING

If the adjuster (1) can be screwed completely, this means that the shoes are worn; in this case, contact an **aprilia** Official Dealer.



H50 HC50

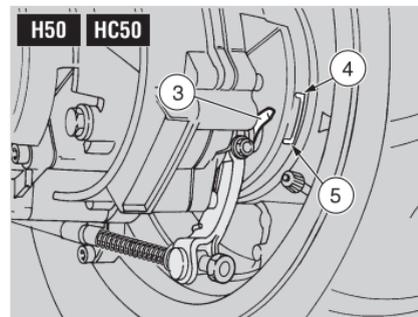
To verify the wear of the rear brake shoes, proceed as follows:

- ◆ Pull the rear brake lever (2) completely and keep it pulled.
- ◆ Check the position of the rear brake shoe wear indicator (3).

Position	Wear condition
Indicator between the two reference teeth (4) and (5).	Rear brake shoes within the wear limit.
Indicator on or beyond the lower reference tooth(5).	Rear brake shoes worn. To be replaced.

⚠ WARNING

If the rear brake shoe wear indicator (3) is positioned on or beyond the lower reference tooth (5), contact an **aprilia** Official Dealer, who will provide for replacing the rear brake shoes.



INSPECTING THE FRONT AND REAR SUSPENSIONS

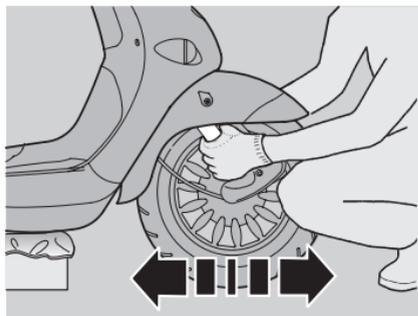
Carefully read p. 43 (MAINTENANCE).

Check the tightening of all the components and the functionality of the articulations of the front and rear suspensions after the first:

- ◆ **H50 HC50** 500 km (312 mi) and successively every 4000 km (2500 mi);
- ◆ **H125 HC125** 1000 km (625 mi) and successively every 6000 km (3750 mi).

⚠ CAUTION

If you notice irregularities in the operation or if the help of a qualified technician is necessary, contact your **aprilia** Official Dealer.



CHECKING THE STEERING

Carefully read p. 43 (MAINTENANCE).

Occasionally check the steering slack.

To check the steering it is necessary to:

- ◆ Position the vehicle on the centre stand.

NOTE Prepare a 185 mm high support, the base of which must measure 200 x 200 mm.

- ◆ Place the support under the vehicle and a spongy cloth between them, so that the front wheel can move freely and the vehicle cannot fall down.



⚠ WARNING

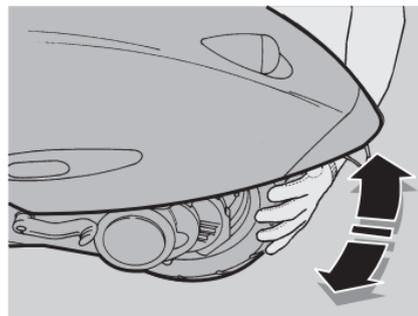
Make sure that the vehicle is stable.

- ◆ Shake the fork in the direction of travel.

NOTE Do not shake the fork excessively, otherwise you may take in consideration the movement of the stand, thus observing an incorrect slack.

Repeat the previous operation more than once.

- ◆ If you find that there is a considerable slack, contact your **aprilia** Official Dealer to restore the optimal steering conditions.



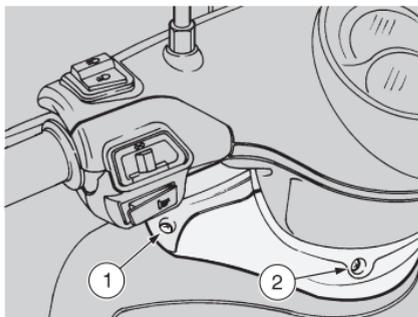
CHECKING THE ENGINE FULCRUM AXIS

Carefully read p. 43 (MAINTENANCE).

Periodically check the slack existing between the engine pin bushings.

To carry out this operation, proceed as follows:

- ◆ Position the vehicle on the centre stand.
- ◆ Shake the wheel transversally with respect to the riding direction.
- ◆ If any slack should be noticed, contact your **aprilia** Official Dealer, to restore the optimal operating conditions.



REMOVING THE FRONT COVER

Carefully read p. 43 (MAINTENANCE).

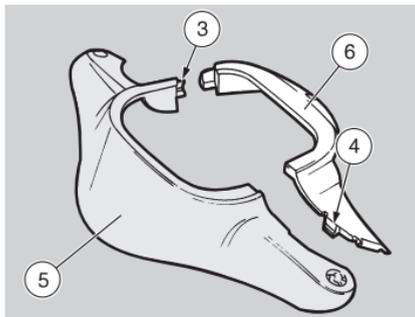
- ◆ Position the vehicle on the centre stand.
- ◆ ★ Unscrew and remove the screw (1).
- ◆ Unscrew and remove the screw (2).

⚠ CAUTION

Proceed with care.

Do not damage the tangs and/or their seats.

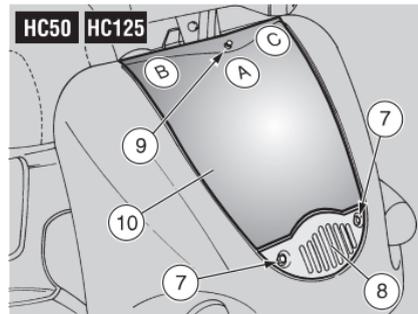
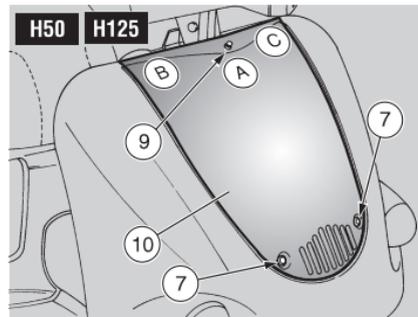
Handle the plastic and painted components with care and avoid scraping or damaging them.

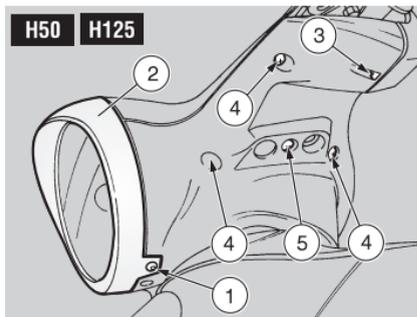


- ◆ Release the couplings (3) and (4) from their seats and remove the two collars (5) and (6).
- ◆ Unscrew and remove the two lower screws (7).
- ◆ **HC50 HC125** Remove the grille (8).
- ◆ Unscrew and remove the upper screw (9), taking the washer.

NOTE To release the front cover (10) from the side couplings, carry out the following operations simultaneously:

- ◆ Press "A" and pull "B".
- ◆ Press "A" and pull "C".





REMOVING THE LOWER HANDLEBAR COVER H50 H125

Carefully read p. 43 (MAINTENANCE).

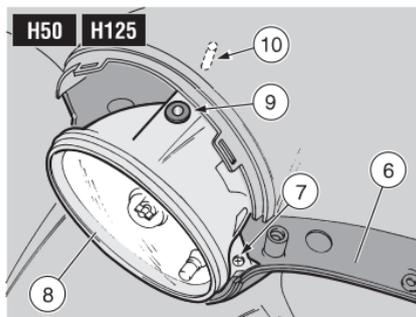
- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the headlight metal ring screw (1).
- ◆ Remove the headlight metal ring (2).
- ◆ ★ Unscrew and remove the screw (3).
- ◆ ★ Unscrew and remove the three screws (4).
- ◆ ★ Unscrew and remove the screw (5).

⚠ CAUTION

Proceed with care.

Do not damage the tangs and/or their seats.

Handle the plastic and painted components with care and avoid scraping or damaging them.



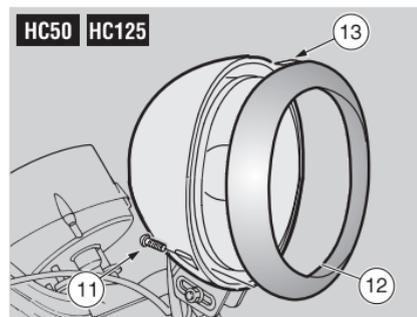
- ◆ Move the lower handlebar cover (6) carefully downwards.
- ◆ ★ Unscrew and remove the screw (7).

⚠ CAUTION

Proceed with care. Do not force the electric wires.

- ◆ Partially remove the reflector (8), releasing the seat (9) from the pin (10).

NOTE Upon reassembly, make sure that the reflector (8), the seat (9) and the pin (10) are in the correct position.



REMOVING THE HEADLIGHT METAL RING HC50 HC125

Carefully read p. 43 (MAINTENANCE).

- ◆ Position the vehicle on the centre stand.
- ◆ ★ Unscrew and remove the screw (11).
- ◆ Remove the headlight metal ring (12).

NOTE Upon reassembly, insert the tang (13) correctly in the appropriate seat.



PARTIAL REMOVAL OF THE UPPER HANDLEBAR COVER **H50 H125**

Carefully read p. 43 (MAINTENANCE).

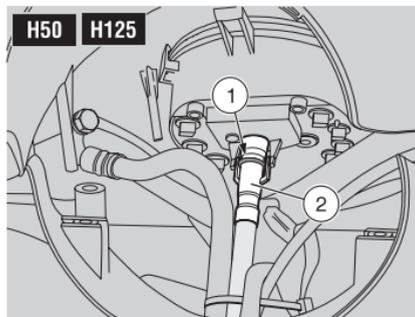
⚠ CAUTION

The operations necessary for the partial removal of the upper handlebar cover may be difficult or complex for unskilled operators.

If necessary, contact an **aprilia** Official Dealer.

If you want to carry out these operations personally, keep to the following instructions:

- ◆ Remove the lower handlebar cover, see p. 54 (REMOVING THE LOWER HANDLEBAR COVER **H50 H125**).

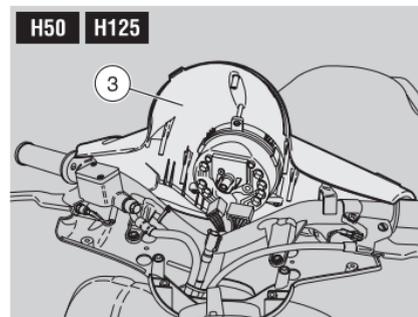


- ◆ Remove the rear-view mirrors, see p. 56 (REMOVING THE REAR-VIEW MIRRORS).
- ◆ Raise the rubber ring (1), releasing it from the odometer control coupling (2).

⚠ CAUTION

Proceed with care. Do not damage the tangs and/or their seats.

- ◆ Release the odometer control coupling (2) from its seat on the dashboard by means of a spanner.



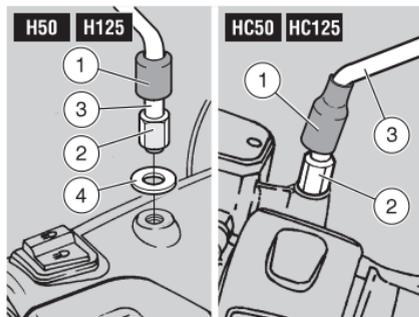
⚠ CAUTION

The upper handlebar cover (3) (complete with switches, instruments and indicators) remains connected to the electric wires and therefore cannot be completely removed.

Proceed with care, in order not to damage the components.

Do not force the electric wires.

- ◆ Raise the upper handlebar cover (3) moderately and rotate it towards the saddle.

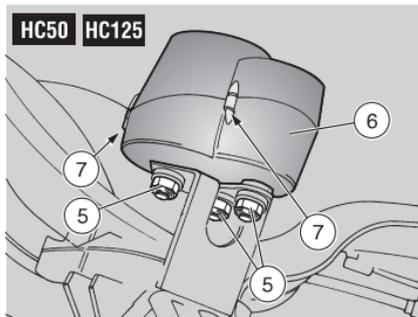


REMOVING THE REAR-VIEW MIRRORS

Carefully read p. 43 (MAINTENANCE).

The following information refers to one rear-view mirror only, but is valid for both (H50) in the countries where the second rear-view mirror is required).

- ◆ Position the vehicle on the centre stand.
- ◆ Lift the protection element (1).
- ◆ Loosen the nut (2) completely.
- ◆ Unscrew and remove the rear-view mirror (3).
- ◆ (H50) (H125) Take the plastic washer (4).



PARTIAL REMOVAL OF THE DASHBOARD (HC50) (HC125)

Carefully read p. 43 (MAINTENANCE).

- ◆ Unscrew and remove the three nuts (5).

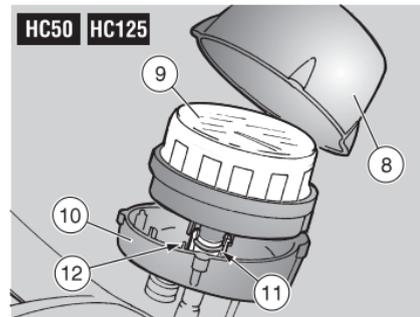
⚠ CAUTION

Proceed with care.

Do not force the electric wires.

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ Partially remove the dashboard (6).



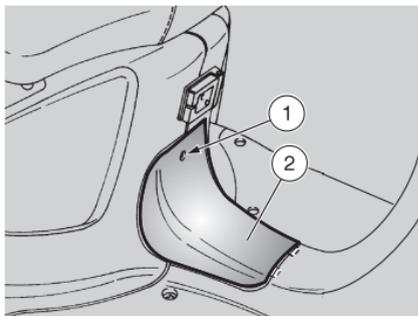
At this point, proceed as follows to reach the dashboard bulbs:

- ◆ ★ Unscrew and remove the two screws (7).
- ◆ Remove the upper cover (8).
- ◆ Remove the glass element (9) with its support.
- ◆ Lower the cover (10).
- ◆ Raise the rubber ring (11), releasing it from the odometer control coupling (12).

⚠ CAUTION

Proceed with care. Do not damage the tangs and/or their seats.

- ◆ Release the odometer control coupling (12) from its seat on the dashboard by means of a spanner.



REMOVING THE CENTRAL INSPECTION COVER

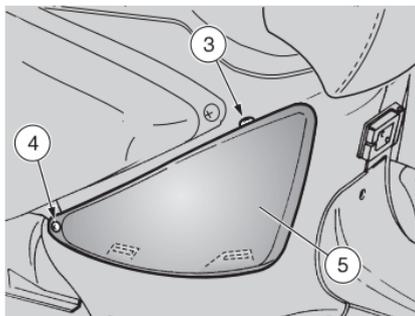
Carefully read p. 43 (MAINTENANCE).

⚠ CAUTION

Handle the painted components with care and avoid scraping or damaging them.

- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the screw (1).
- ◆ Remove the central inspection cover (2).

NOTE Upon reassembly, fit the tangs correctly in the appropriate seats.



REMOVING THE RIGHT AND LEFT INSPECTION COVERS

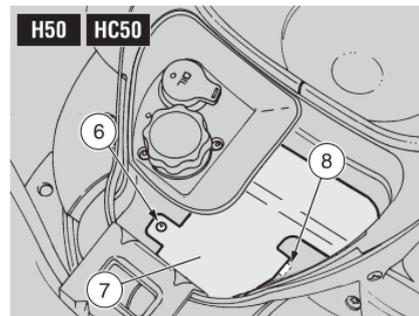
Carefully read p. 43 (MAINTENANCE).

⚠ CAUTION

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ Lift the saddle, see p. 23 (UNLOCKING / LOCKING THE SADDLE).
- ◆ Unscrew and remove the upper screw (3).
- ◆ Unscrew and remove the side screw (4).
- ◆ Remove the side inspection cover (5).

NOTE Upon reassembly, correctly fit the seats in the appropriate tangs.

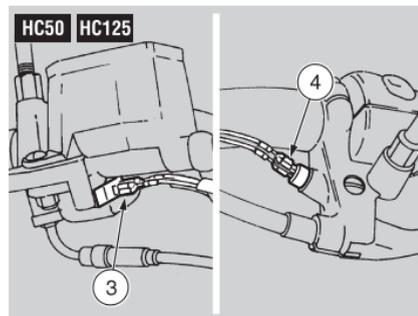
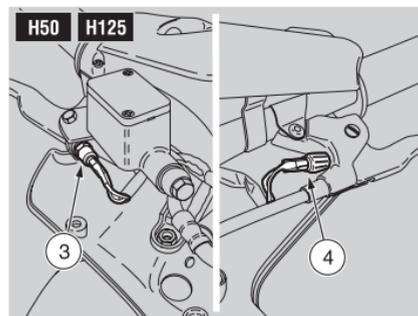
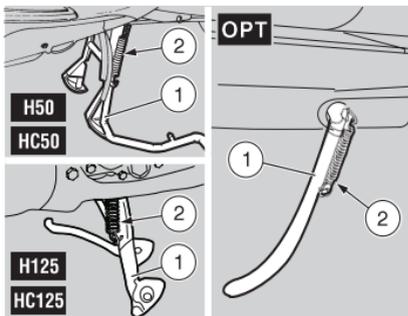


REMOVING THE BATTERY COVER H50 HC50

NOTE Position the vehicle on firm and flat ground.

- ◆ Position the vehicle on the centre stand.
- ◆ Make sure that the ignition switch is in position "⊗".
- ◆ Raise the saddle, see p. 23 (UNLOCKING / LOCKING THE SADDLE).
- ◆ Unscrew and remove the screw (6).
- ◆ Remove the battery cover (7).

NOTE Upon reassembly, correctly insert the tang (8) in the appropriate seat.



CHECKING THE STAND

Carefully read p. 43 (MAINTENANCE).

⚠ WARNING

FOR THE SIDE STAND ONLY **OPT**.

Danger of fall or overturning.

When the vehicle is straightened from the parking position to the driving position, the stand goes automatically up.

NOTE The following information refers to one stand only, but is valid for both.

The stand (1) must rotate without hindrances.

Carry out the following checks:

- ◆ The springs (2) must not be damaged, worn, rusty or weakened.
- ◆ The stand must rotate freely, if necessary grease the joint, see p. 84 (LUBRICANT CHART **H50 HC50**) or p. 85 (LUBRICANT CHART **H125 HC125**).

CHECKING THE SWITCHES

Carefully read p. 43 (MAINTENANCE)

The vehicle is provided with two switches:

- Stoplight switch on the rear brake control lever (3);
- Stoplight switch on the front brake control lever (4).

To reach the switches, proceed as follows:

- ◆ **H50 H125** Partially remove the upper handlebar cover, see p. 55 (PARTIAL REMOVAL OF THE UPPER HANDLEBAR COVER **H50 H125**).

Periodically carry out the following checks:

- ◆ Make sure that there are no dirt or mud deposits on the switch; the pin must be able to move without interferences, returning automatically to its initial position.
- ◆ Make sure that the cables are connected correctly.

IDLING ADJUSTMENT

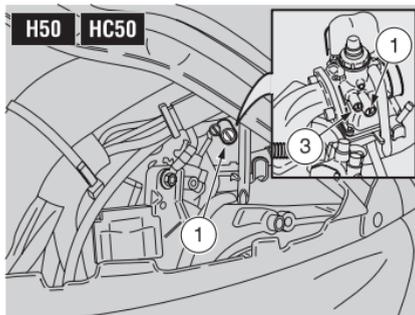
Carefully read p. 43 (MAINTENANCE).

H50 HC50 Adjust the idling after the first 500 km (312 mi) and every time it is irregular.

H125 HC125 Adjust the idling after the first 1000 km (625 mi) and every time it is irregular.

To carry out this operation, proceed as follows:

- ◆ Drive for a few miles until the engine reaches the normal running temperature, then stop the engine.
- ◆ **H50 HC50** Remove the central inspection cover, see p. 57 (REMOVING THE CENTRAL INSPECTION COVER).
- ◆ **H125 HC125** Remove the right inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- ◆ Connect an electronic revolution counter to the spark plug cable.



⚠ WARNING

Before proceeding, make sure that the room in which you are working is properly ventilated.

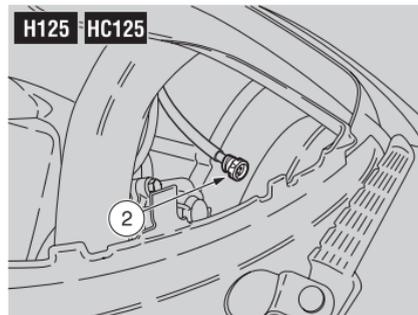
- ◆ Start the engine.

The minimum speed of the engine (idling) must be about 1600 ± 200 rpm; in this case the engine does not make the rear wheel rotate.

If necessary:

- ◆ Remove the left inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- ◆ **H50 HC50** Act on the adjusting screw (1) positioned on the carburetor.

H50 HC50 NOTE Do not act on the air adjusting screw (3), to avoid variations of the carburation setting.



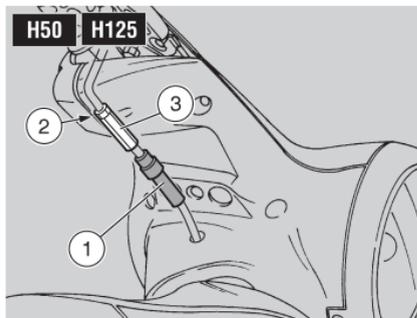
- ◆ **H125 HC125** Act on the adjusting knob (2).

BY ROTATING CLOCKWISE
the rpm increase;

BY ROTATING ANTICLOCKWISE
the rpm decrease.

- ◆ Twist the throttle grip, accelerating and decelerating a few times to make sure that it functions correctly and to check if the idling speed is constant.

NOTE If necessary, contact your **aprilia** Official Dealer.



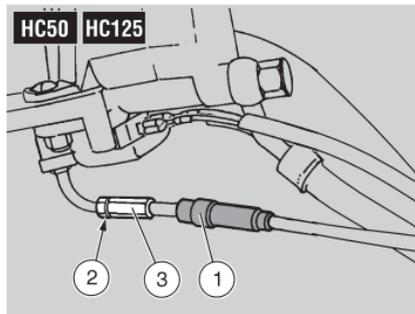
ADJUSTING THE ACCELERATOR CONTROL

Carefully read p. 43 (MAINTENANCE).

The ideal slack of the accelerator control should be about 2-3 mm.

To adjust the slack, proceed as follows:

- ◆ Position the vehicle on the centre stand.
- ◆ Remove the protection element (1).
- ◆ Loosen the nut (2).
- ◆ Act on the adjuster (3), positioned at the beginning of the accelerator control cable.



After the adjustment:

- ◆ Tighten the nut (2), thus locking the adjuster (3) and put back the protection element (1).

⚠ WARNING

After the adjustment, make sure that the rotation of the handlebar does not modify the engine idling rpm and that the throttle grip returns smoothly and automatically to its original position after being released.

SPARK PLUG

Carefully read p. 43 (MAINTENANCE).

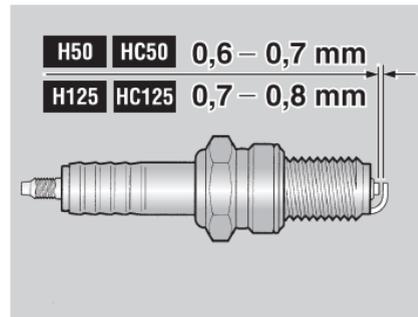
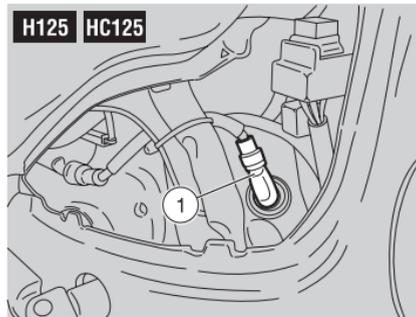
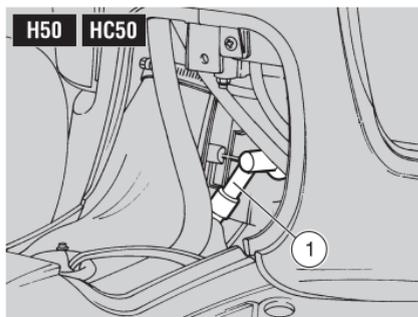
H50 HC50 Check the spark plug after the first 500 km (312 mi); change it every 4000 km (2500 mi).

H125 HC125 Check the spark plug after the first 1000 km (625 mi); successively every 6000 km (3750 mi) and change it every 12000 km (7500 mi).

Periodically remove the spark plug and clean it carefully, removing carbon deposits; change it if necessary.

To reach the spark plug:

- ◆ **H50 HC50** Remove the central inspection cover, see p. 57 (REMOVING THE CENTRAL INSPECTION COVER).
- ◆ **H125 HC125** Remove the right inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).



To remove and clean the spark plug:

- ◆ Take off the spark plug cap (1).
- ◆ Remove all the dirt from the base of the spark plug, then unscrew it with the spanner you will find in the tool kit and extract it from its seat, taking care that neither dust nor other substances enter the cylinder.
- ◆ Make sure that there are neither carbon deposits, nor corrosion marks on the electrode and on the central porcelain part; if necessary, clean them with the special cleaners for spark plugs, with an iron wire and/ or a metal brush.
- ◆ Energetically blow some air, in order to prevent the removed residues from getting into the engine.
If the spark plug has crackings on the insulating material, corroded electrodes or excessive deposits, it must be changed.

- ◆ Check the spark plug gap with a thickness gauge.
The gap must be:
 - **H50 HC50** 0,6 - 0,7 mm;
 - **H125 HC125** 0,7 - 0,8 mm;
 if necessary adjust it, carefully bending the earth electrode.
- ◆ Make sure that the washer is in good conditions. With the washer on, screw the spark plug by hand in order not to damage the thread.
- ◆ Tighten the spark plug by means of the spanner you will find in the tool kit, giving it half a turn to compress the washer.

Spark plug driving torque:

- **H50 HC50** 20 Nm (2 kgm);
- **H125 HC125** 12-14 Nm (1,2-1,4 kgm).

⚠ CAUTION

The spark plug must be well tightened, otherwise the engine may overheat and be seriously damaged.

Use the recommended type of spark plug only, see p. 80 (TECHNICAL DATA), in order not to compromise the life and performance of the engine.

- ◆ Position the spark plug cap (1).
- ◆ Put back the inspection cover.

BATTERY

Carefully read p. 43 (MAINTENANCE).

WARNING

Risk of fire.

Keep fuel and other flammable substances away from the electrical components.

CAUTION

Never invert the connection of the battery cables.

Connect and disconnect the battery with the ignition switch in position "0", otherwise some components may be damaged.

Connect first the positive cable (+) and then the negative cable (-).

Disconnect following the reverse order.

H50 HC50

Check the electrolyte level and the tightening of the terminals after the first 500 km (312 mi) and then every 4000 km (2500 mi).

WARNING

The electrolyte in the battery is toxic and caustic and if it gets in contact with the skin it can cause burns, since it contains sulphuric acid.

Wear protection clothes, a face mask and/or goggles during maintenance operations.

In case of contact with the skin, rinse with plenty of water.

In case of contact with the eyes, rinse with plenty of water for fifteen minutes, then consult an oculist without delay.

If the electrolyte is accidentally swallowed, drink a lot of water or milk, then continue drinking milk of magnesia or vegetable oil and consult a doctor without delay.

The battery gives off explosive gases; keep it away from flames, sparks, cigarettes and any other source of heat.

During the recharging or the use, make sure that the room is properly ventilated and avoid inhaling the gases released during the recharging.

KEEP AWAY FROM CHILDREN.

Do not incline the vehicle too much, in order to avoid dangerous leaks of the battery fluid.

The electrolyte is corrosive.

Do not pour or spill it, especially on the plastic parts.

H125 HC125

CAUTION

This vehicle is provided with a maintenance-free battery and no operation is necessary, excepting occasional checks and the recharge when required.

NOTE If you need assistance or technical advice, consult your **aprilia** Official Dealer, who can ensure you prompt and accurate servicing.

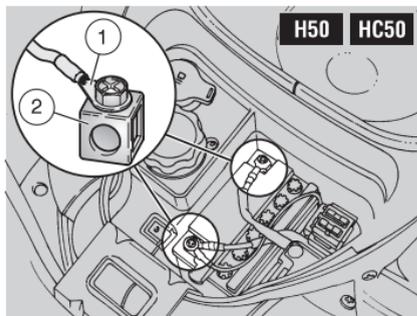
LONG INACTIVITY OF THE BATTERY

If the vehicle remains unused for more than fifteen days, it is necessary to recharge the battery, in order to prevent its sulphation, see p. 65 (RECHARGING THE BATTERY).

It is important to check the charge periodically (about once a month), during the winter or when the vehicle remains unused, in order to prevent the deterioration of the battery.

◆ Recharge it completely with a normal charge, see p. 65 (RECHARGING THE BATTERY).

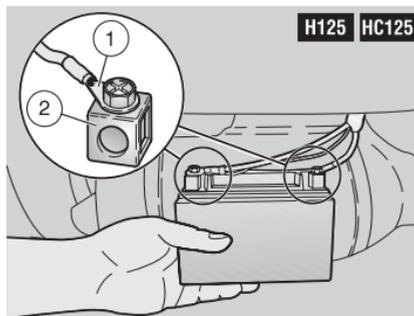
H50 HC50 If the battery remains on the vehicle, disconnect the cables from the terminals.



CHECKING AND CLEANING THE TERMINALS

Carefully read p. 62 (BATTERY).

- ◆ **H50 HC50** Remove the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).
- ◆ **H125 HC125** Remove the battery (partial removal), see p. 64 (REMOVING THE BATTERY **H125 HC125**).
- ◆ Make sure that the cable terminals (1) and the battery terminals (2) are:
 - in good conditions (and not corroded or covered with deposits);
 - covered with special grease or Vaseline.

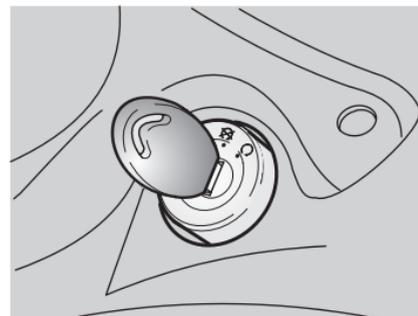


If necessary:

- ◆ Make sure that the ignition switch is in position "⊗".
- ◆ Disconnect first the negative (-) and then the positive cable (red) (+).
- ◆ Brush with a wire brush to eliminate any sign of corrosion.
- ◆ Reconnect first the positive (red) (+) and then the negative cable (-).
- ◆ Cover the terminals with special grease or Vaseline.

After these operations:

- ◆ **H50 HC50** Put back the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).
- ◆ **H125 HC125** Put back the battery, see p. 65 (INSTALLING THE BATTERY **H125 HC125**).



REMOVING THE BATTERY **H50 HC50**

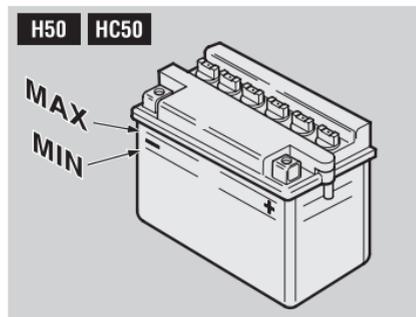
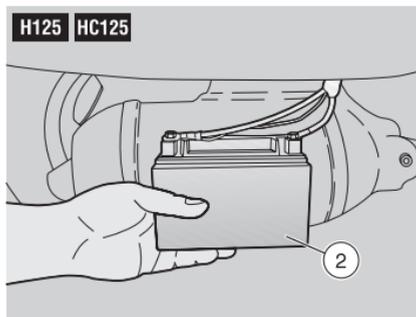
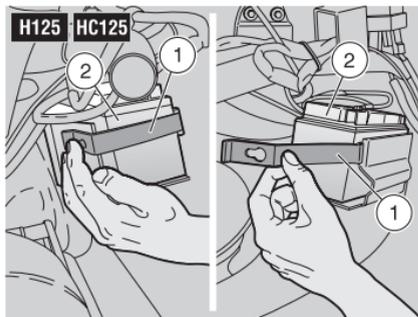
Carefully read p. 62 (BATTERY).

- ◆ Remove the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).
- ◆ Make sure that the ignition switch is in position "⊗".
- ◆ Disconnect first the negative (-) and then the positive cable (red) (+).
- ◆ Remove the battery breather pipe.
- ◆ Remove the battery from its compartment and put it on a flat surface, in a cool and dry place.

⚠ WARNING

Once it has been removed, the battery must be stored in a safe place and kept away from children.

- ◆ Put back the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).



REMOVING THE BATTERY

Carefully read p. 62 (BATTERY).

PARTIAL REMOVAL

- ◆ Position the vehicle on the centre stand.

⚠ WARNING

Wait until the engine and the exhaust silencer have completely cooled down.

- ◆ Make sure that the ignition switch is in position "⊘".
- ◆ Working on the right side of the vehicle, introduce your left hand under the fairing.
- ◆ Release the belt (1) that holds the battery.
- ◆ Move the belt (1) sideways.

⚠ CAUTION

The battery is connected with the electric cables. Do not force the cables while removing it.

- ◆ Grasp the battery (2) and remove it from its compartment by withdrawing it from behind.

COMPLETE REMOVAL

- ◆ Disconnect first the negative cable (-) and then the positive cable (red) (+).
- ◆ Position the battery (2) on a flat surface, in a cool and dry place.

⚠ WARNING

After removal, the battery must be stored in a safe place and kept away from children.

CHECKING THE ELECTROLYTE LEVEL H50 HC50

Carefully read p. 62 (BATTERY).

- ◆ Remove the battery from its compartment, see beside (REMOVING THE BATTERY H50 HC50).

- ◆ Make sure that the fluid level is included between the two "MIN" and "MAX" notches stamped on the battery side.

Otherwise:

- ◆ Unscrew and remove the element plugs.

⚠ CAUTION

Top up with distilled water only. Do not exceed the "MAX" mark, since the electrolyte level increases during the recharge.

- ◆ Top up by adding distilled water.

⚠ CAUTION

After topping up, put back the element plugs in the correct position.

- ◆ Put back the element plugs.

RECHARGING THE BATTERY

Carefully read p. 62 (BATTERY).

H50 HC50

- ◆ Remove the battery from its compartment, see p. 63 (REMOVING THE BATTERY H50 HC50).
- ◆ Unscrew and remove the element plugs.
- ◆ Check the electrolyte level, see p. 64 (CHECKING THE ELECTROLYTE LEVEL H50 HC50).

H125 HC125

- ◆ Remove the battery (complete removal), see p. 64 (REMOVING THE BATTERY H125 HC125).

NOTE Do not remove the battery plugs; without plugs the battery may be damaged.

- ◆ Connect the battery with a battery charger.
- ◆ A recharge with an amperage equal to 1/10th of the battery capacity is recommended.

H50 HC50

- ◆ After the recharging operation, check the electrolyte level again and if necessary top up with distilled water.
- ◆ Replace the element plugs.

⚠ CAUTION

Reassemble the battery only 5-10 minutes after disconnecting the recharger, since the battery continues to produce gas for a short lapse of time.

INSTALLING THE BATTERY H50 HC50

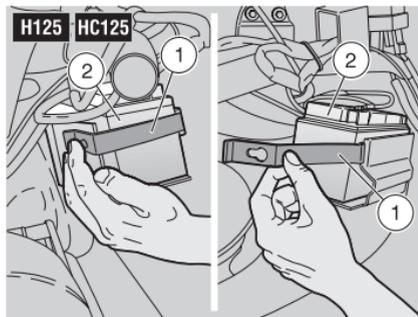
Carefully read p. 62 (BATTERY).

- ◆ Remove the battery cover, see seep. 57 (REMOVING THE BATTERY COVER H50 HC50).
- ◆ Put the battery in its container.
- ◆ Connect the breather pipe.

⚠ CAUTION

Always connect the battery breather pipe, to prevent the sulphuric acid vapours from corroding the electric system, painted parts, rubber elements or gaskets when they exit the breather pipe itself.

- ◆ Connect, in order, the positive (red) (+) and negative (-) cable.
- ◆ Cover the terminals with special grease or Vaseline.
- ◆ Put back the battery cover, see p. 57 (REMOVING THE BATTERY COVER H50 HC50).



INSTALLING THE BATTERY H125 HC125

Carefully read p. 62 (BATTERY).

- ◆ Connect, in order, the positive (red) (+) and negative (-) cable.
- ◆ Cover the terminals with special grease or Vaseline.

⚠ CAUTION

Upon reassembly the electric cables must be guided in the correct position, in such a way as not to crush them.

- ◆ Position the battery in its compartment.
- ◆ Put back the belt (1) that holds the battery (2).

CHANGING THE FUSES

Carefully read p. 43 (MAINTENANCE).

⚠ CAUTION

Do not repair faulty fuses.

Never use fuses different from the recommended ones.

The use of unsuitable fuses may damage the electric system or, in case of short circuit, may even cause a fire.

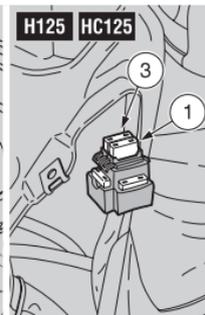
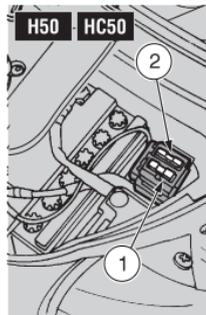
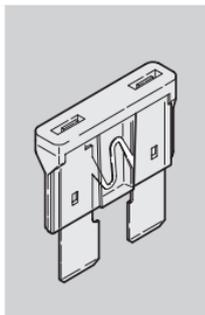
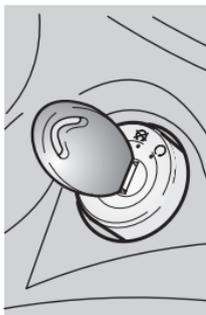
NOTE If a fuse blows frequently, there probably is a short circuit or an overload in the electric system.

In this case it is advisable to consult an **aprilia** Official Dealer.

If an electric component does not work or works irregularly, or if the engine fails to start, it is necessary to check the fuses.

To carry out the checking:

- ◆ Turn the ignition switch to position "0", to avoid any accidental short circuit.
- ◆ **H50 HC50** Remove the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).
- ◆ **H125 HC125** Remove the right inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).



- ◆ Extract the fuses one by one and check if the filament is broken.
- ◆ Before replacing a fuse, try to find out the cause of the trouble, if possible.
- ◆ Then replace the damaged fuse with a new one having the same amperage.

NOTE If you use one of the spare fuses, put a new fuse in the appropriate seat.

- ◆ **H50 HC50** Put back the battery cover, see p. 57 (REMOVING THE BATTERY COVER **H50 HC50**).
- ◆ **H125 HC125** Put back the right inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

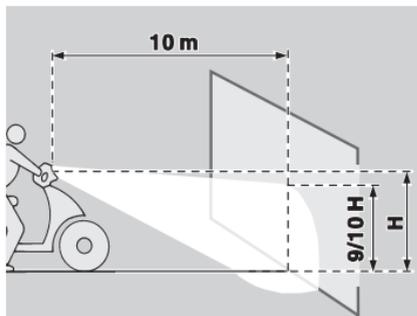
ARRANGEMENT OF THE FUSES

7.5 A fuse (1) - From key switch to:

- start relay and relevant circuit;
- fuel level sensor and relevant circuit;
- horn;
- parking lights and instrument lighting;
- **H50 HC50** direction indicators and relevant circuit;
- **H50 HC50** stop light and relevant circuit;
- **H50 HC50** 2 stroke oil reserve sensor and relevant circuit;
- **H125 HC125** engine oil pressure sensor and engine oil circuit.

H50 HC50 10A fuse (2) – From battery to key switch, voltage regulator.

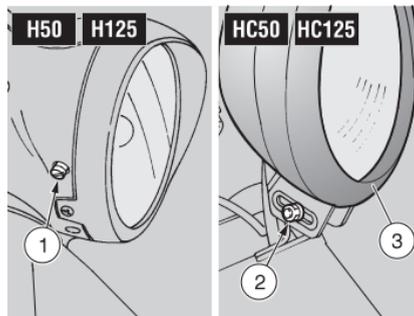
H125 HC125 15A fuse (3) – From battery to key switch, generator.



ADJUSTING THE VERTICAL HEADLIGHT BEAM

To rapidly check the correct direction of the beam, place the vehicle on flat ground, 10 m away from a wall.

Turn on the low beam, sit on the vehicle and make sure that the beam projected on the wall is slightly under the horizontal line of the headlight (about 9/10th of the total height).



To adjust the headlight beam:

- ◆ Act on the suitable screw (1) by means of a screwdriver.

By TURNING IT CLOCKWISE, you set the beam upwards.

By TURNING IT ANTICLOCKWISE, you set the beam downwards.

To adjust the headlight beam, proceed as follows:

- ◆ Loosen the nut (2).
- ◆ Adjust the inclination of the headlight (3).
- ◆ Tighten the nut (2).
- ◆ Make sure that the nut (2) is tightened correctly.
- ◆ Make sure that the headlight (3) is directed correctly.

BULBS

Carefully read p. 43 (MAINTENANCE)

⚠ WARNING

Risk of fire.

Keep fuel and other flammable substances away from the electrical components.

⚠ CAUTION

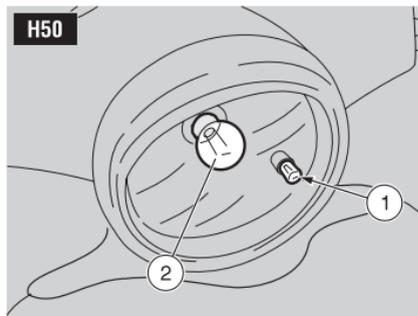
Before changing a bulb, position the vehicle on the centre stand, move the ignition switch to position "⊗" and wait a few minutes, so that the bulb cools down.

Change the bulb wearing clean gloves or using a clean and dry cloth.

Do not leave fingerprints on the bulb, since these may cause its overheating and consequent breakage.

If you touch the bulb with bare hands, remove any fingerprint with alcohol, in order to avoid any damage.

DO NOT FORCE THE ELECTRIC CABLES.

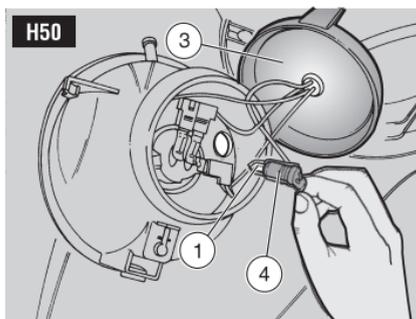


CHANGING THE HEADLIGHT BULBS H50

Carefully read p. 67 (BULBS).

The headlight contains:

- one parking light bulb (1);
- one low / high beam bulb (2).



To reach the bulbs, proceed as follows:

- ◆ Remove the lower handlebar cover, see p. 54 (REMOVING THE LOWER HANDLEBAR COVER H50 H125).
- ◆ Manually move the protection element (3).

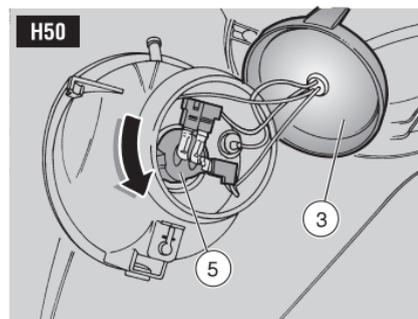
To change the bulbs, proceed as follows:

PARKING LIGHT BULB

⚠ CAUTION

Do not pull the electric cables to extract the bulb socket.

- ◆ Grasp the parking light bulb socket (4), pull it and remove it from its seat.
- ◆ Withdraw the parking light bulb (1) and replace it with a new one of the same type.

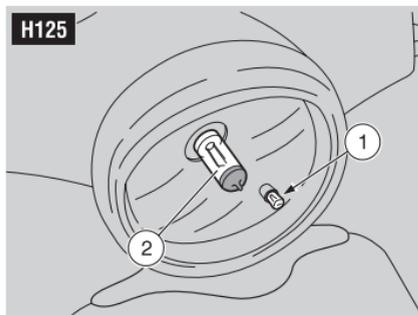


LOW / HIGH BEAM BULB

- ◆ Rotate the bulb socket (5) anticlockwise and extract it.
- ◆ Press the bulb (2) moderately and rotate it anticlockwise.
- ◆ Extract the bulb from its seat.

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.

- ◆ Correctly install a new bulb of the same type.

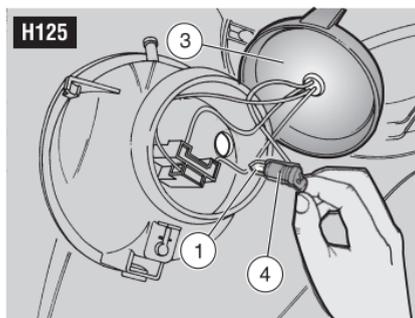


CHANGING THE HEADLIGHT BULBS H125

Carefully read p. 67 (BULBS).

The headlight contains:

- one parking light bulb (1);
- one low / high beam bulb (2) (halogen).



To reach the bulbs, proceed as follows:

- ◆ Remove the headlight metal ring, see p. 54 (REMOVING THE HEADLIGHT METAL RING H50 H125).
- ◆ Manually move the protection element (3).

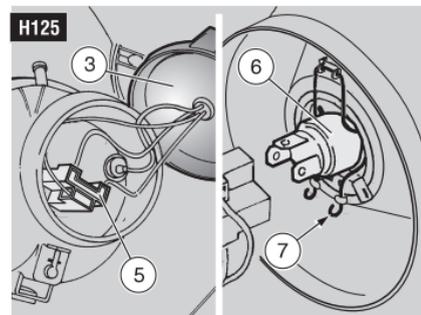
To change the bulbs, proceed as follows:

PARKING LIGHT BULB

⚠ CAUTION

Do not pull the electric cables to extract the bulb socket.

- ◆ Grasp the parking light bulb socket (4), pull it and remove it from its seat.
- ◆ Withdraw the parking light bulb (1) and replace it with a new one of the same type.



LOW/HIGH BEAM BULB (HALOGEN)

⚠ CAUTION

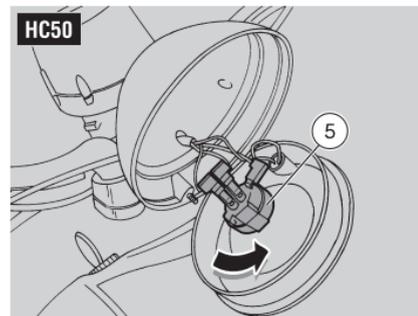
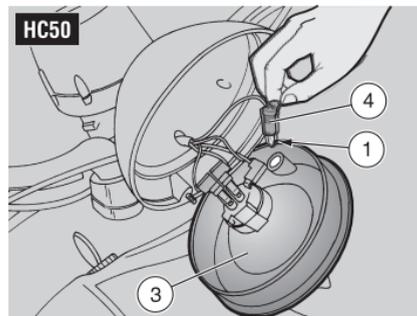
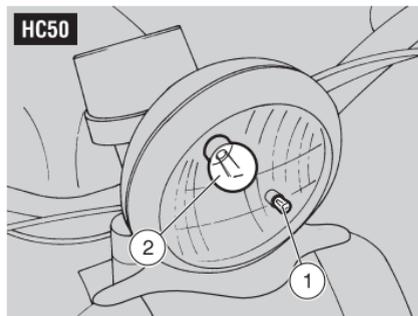
To extract the bulb electric connector, do not pull its electric wires.

- ◆ Grasp the bulb electric connector (5), pull it and disconnect it from the bulb (6).
- ◆ Release the clip (7) that holds the bulb (6).
- ◆ Extract the bulb from its seat.

For the reassembly:

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.

- ◆ Correctly install a new bulb of the same type.
- ◆ Put back the clip (7).
- ◆ Connect the bulb electric connector (5).



CHANGING THE HEADLIGHT BULBS HC50

Carefully read p. 67 (BULBS).

The headlight contains:

- one parking light bulb (1);
- one low / high beam bulb (2).

To reach the bulbs, proceed as follows:

- ◆ Remove the headlight metal ring, see p. 54 (REMOVING THE HEADLIGHT METAL RING HC50 HC125).

⚠ CAUTION

Proceed with care.

Do not force the electric wires.

- ◆ Partially remove the reflector (3).

To change the bulbs, proceed as follows:

PARKING LIGHT BULB

⚠ CAUTION

Do not pull the electric cables to extract the bulb socket.

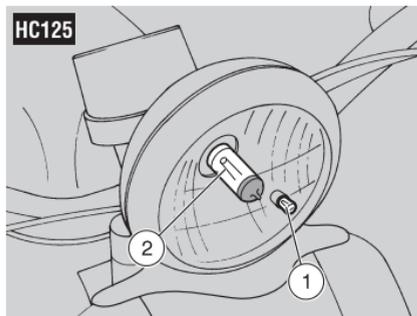
- ◆ Grasp the parking light bulb socket (4), pull it and remove it from its seat.
- ◆ Withdraw the parking light bulb (1) and replace it with a new one of the same type.

LOW/HIGH BEAM BULB

- ◆ Rotate the bulb socket (5) anticlockwise and extract it.
- ◆ Press the bulb (2) moderately and rotate it anticlockwise.
- ◆ Extract the bulb from its seat.

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.

- ◆ Correctly install a new bulb of the same type.

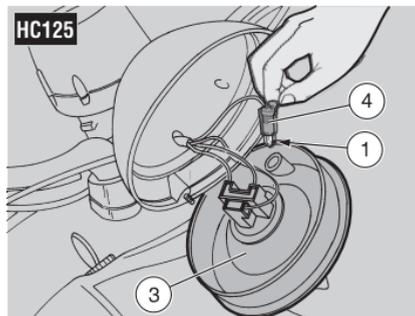


CHANGING THE HEADLIGHT BULBS HC125

Carefully read p. 67 (BULBS).

The headlight contains:

- one parking light bulb (1);
- one low / high beam bulb (2) (halogen).



To reach the bulbs, proceed as follows:

- ◆ Remove the headlight metal ring, see p. 54 (REMOVING THE HEADLIGHT METAL RING H50 H125).

⚠ CAUTION

Proceed with care.
Do not force the electric wires.

- ◆ Partially remove the reflector (3).

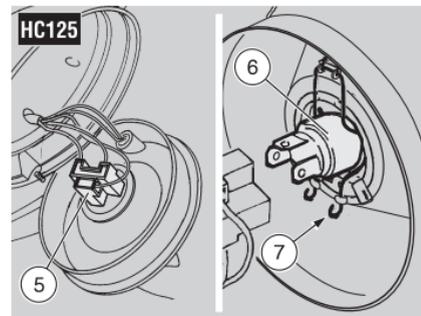
To change the bulbs, proceed as follows:

PARKING LIGHT BULB

⚠ CAUTION

Do not pull the electric cables to extract the bulb socket.

- ◆ Grasp the parking light bulb socket (4), pull it and remove it from its seat.
- ◆ Withdraw the parking light bulb (1) and replace it with a new one of the same type.



LOW/HIGH BEAM BULB (HALOGEN)

⚠ CAUTION

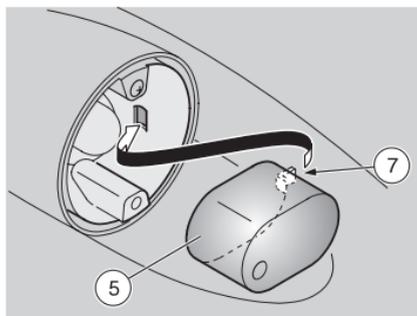
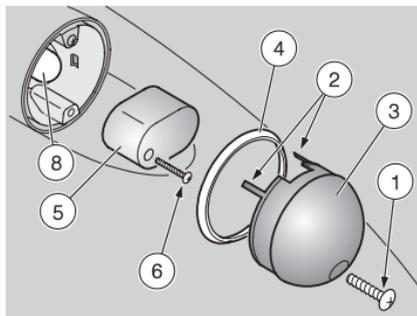
To extract the bulb electric connector, do not pull its electric wires.

- ◆ Grasp the bulb electric connector (5), pull it and disconnect it from the bulb (6).
- ◆ Release the clip (7) that holds the bulb (6).
- ◆ Extract the bulb from its seat.

For the reassembly:

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.

- ◆ Correctly install a new bulb of the same type.
- ◆ Put back the clip (7).
- ◆ Connect the bulb electric connector (5).



CHANGING THE FRONT AND REAR DIRECTION INDICATOR BULBS

Carefully read p. 67 (BULBS).

H50 HCS0 NOTE Before changing a bulb, check the fuses, see p. 66 (CHANGING THE FUSES).

To change the bulbs:

- ◆ Unscrew and remove the screw (1).

NOTE When removing the protection screen, proceed with care, in order not to break the tangs (2).

- ◆ Remove the protection screen (3).

NOTE Upon reassembly, fit the tangs (2) correctly in the appropriate seats.

- ◆ Take the metal ring (4).

NOTE The coloured screen (5) is supplied only if the direction indicator is equipped with a protection screen (3) of the “transparent colourless” type.

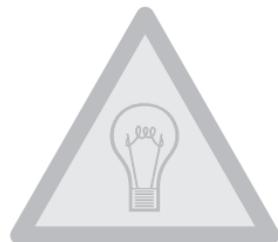
- ◆ Unscrew and remove the screw (6).

NOTE When removing the coloured screen, proceed with care, in order not to break the tang.

- ◆ Rotate the coloured screen (5) towards the inside, until releasing the tang (7), then remove it.

NOTE Upon reassembly, correctly insert the tang (7) in the appropriate seat.

- ◆ Press the bulb (8) slightly and rotate it anticlockwise.
- ◆ Extract the bulb from its seat.

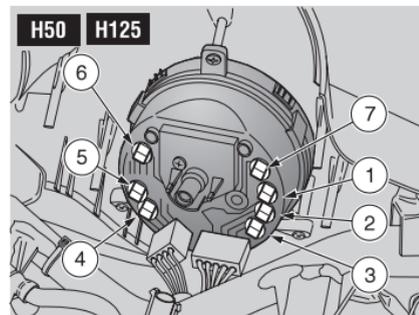
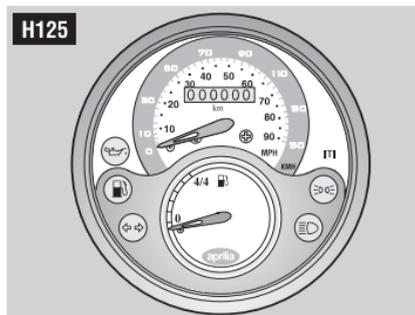
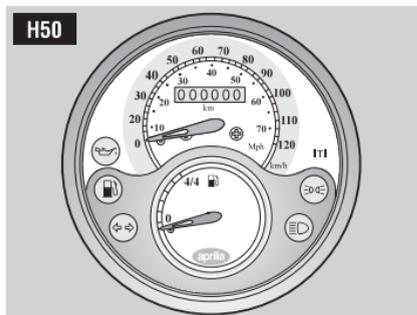


NOTE To install the new bulb: introduce the bulb in the bulb socket, making sure that the two guide pins coincide with the relevant guides on the bulb socket.

- ◆ Correctly install a new bulb of the same type.

For the reassembly:

NOTE Tighten the screw (1) and the screw (6) moderately and with great care, in order to avoid damaging the protection screen (3) and the coloured screen (5).



CHANGING THE DASHBOARD BULBS H50 H125

Carefully read p. 67 (BULBS).

NOTE Before changing a bulb, check the fuses, see p. 66 (CHANGING THE FUSES)

The dashboard contains:

- the warning light bulbs;
- the dashboard lighting bulbs.

To change the bulbs:

WARNING LIGHT BULBS

- ♦ Partially remove the upper handlebar cover, see p. 55 (PARTIAL REMOVAL OF THE UPPER HANDLEBAR COVER H50 H125).

NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

- ♦ Extract the relative bulb socket:

Pos.	Warning light	Colour
1	H50 2 stroke oil reserve (⚡)	red
1	H125 Engine oil pressure	red
2	Low fuel (⛽)	amber
3	Direction indicators (↔)	green
4	High beam (⚡)	blue
5	Parking lights and low beam (⚡)	green

- ♦ Extract the bulb and replace it with one of the same type.

DASHBOARD LIGHTING BULBS

NOTE To change the two bulbs of the upper part of the dashboard, it is sufficient to remove the lower handlebar cover.

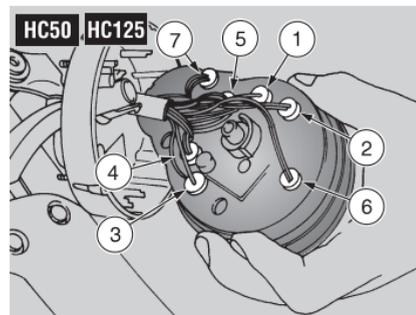
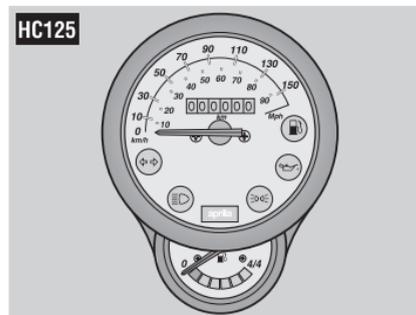
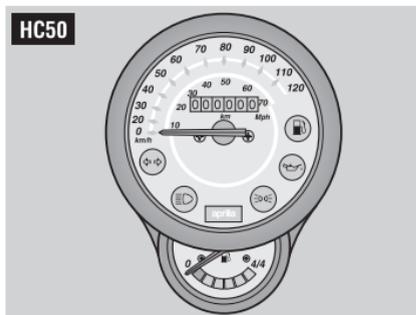
- ♦ Remove the lower handlebar cover, see p. 54 (REMOVING THE LOWER HANDLEBAR COVER H50 H125)

NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

- ♦ Extract the bulb socket of the dashboard part in which there has been a light decrease:

Pos.	Lit part
6	Upper right part
7	Upper left part

- ♦ Extract the bulb and replace it with one of the same type.



CHANGING THE DASHBOARD BULBS HC50 HC125

Carefully read p. 67 (BULBS).

NOTE Before changing a bulb, check the fuses, see p. 66 (CHANGING THE FUSES)

The dashboard contains:

- the warning light bulbs;
- the dashboard lighting bulbs.

To change the bulbs:

- ◆ Partially remove the dashboard, see p. 56 (PARTIAL REMOVAL OF THE DASHBOARD HC50 HC125).

WARNING LIGHT BULBS

NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

- ◆ Extract the relative bulb socket:

Pos.	Warning light	Colour
1	HC50 2 stroke oil reserve (⚡)	red
1	HC125 Engine oil pressure	red
2	Low fuel (⛛)	amber
3	Direction indicators (↔)	green
4	High beam (⊲)	blue
5	Parking lights and low beam (⊳)	green

- ◆ Extract the bulb and replace it with one of the same type.

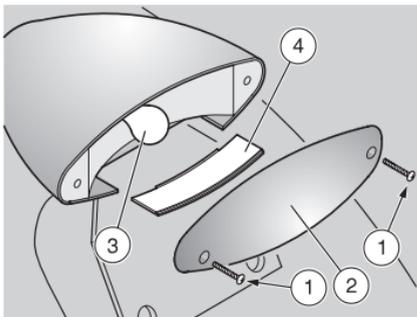
DASHBOARD LIGHTING BULBS

NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

- ◆ Extract the bulb socket of the dashboard part in which there has been a light decrease:

Pos.	Lit part
6	Upper central part
7	Upper right part

- ◆ Extract the bulb and replace it with one of the same type.

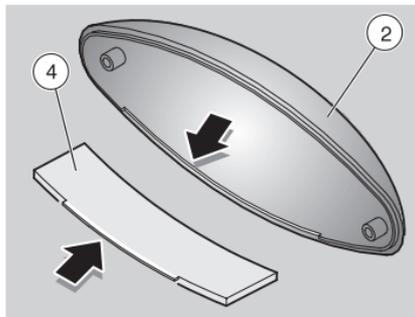


CHANGING THE REAR LIGHT BULB

H50 HC50

Carefully read p. 67 (BULBS).

NOTE Before changing a bulb, check the fuse, see p. 66 (CHANGING THE FUSES) and the effective operation of the stop-light switches, see p. 58 (CHECKING THE SWITCHES).



To change the bulb:

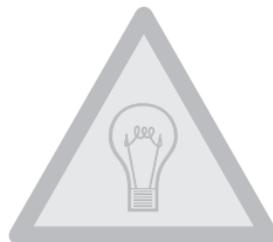
- ◆ Position the vehicle on the stand.
- ◆ Unscrew and remove the two screws (1).
- ◆ Remove the protection screen (2).

NOTE Upon reassembly, correctly position the protection screen in its seat. The lower part has shaped profile.

⚠ CAUTION

Upon reassembly, tighten the two screws (1) moderately and carefully, to avoid damaging the protection screen.

- ◆ Press the bulb (3) slightly and rotate it anticlockwise.
- ◆ Extract the bulb from its seat.



NOTE Insert the bulb in the bulb socket, making the two bulb pins coincide with the relevant guides on the socket.

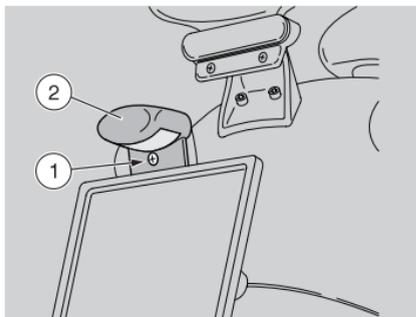
- ◆ Correctly install a new bulb of the same type.

H50 HC50

NOTE If the transparent screen of the number plate light (4) has been removed, put it back in the correct position. The front part has shaped profile.

H125 HC125

NOTE If it has been removed, position the transparent screen (4) correctly. The front part has shaped profile.



CHANGING THE NUMBER PLATE

BULB H125 HC125

Carefully read p. 67 (BULBS).

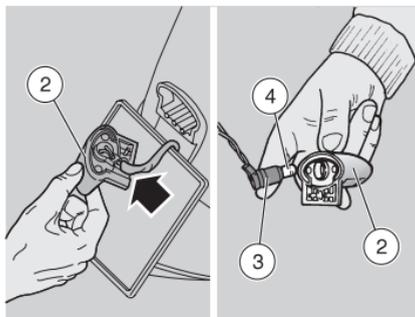
To change the bulb:

- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the screw (1).
- ◆ Remove the light unit (2).

⚠ CAUTION

Do not pull the electric wires to extract the bulb socket.

- ◆ Grasp the bulb socket (3), pull it and remove it from its seat.
- ◆ Remove the bulb (4) from its seat.
- ◆ Correctly install a new bulb of the same type.



⚠ CAUTION

Upon reassembly, position the electric cable correctly in the appropriate grooved seat on the right side of the light unit (2).

TRANSPORT

⚠ WARNING

Before transporting the vehicle, it is necessary to empty the fuel tank and the carburettor completely, see p. 77 (DRAINING THE FUEL TANK) making sure that both are completely dry.

During transport the vehicle must be kept in vertical position and be firmly anchored, in order to avoid any leakage of fuel, oil or coolant.

In case of failure, do not tow the vehicle, but ask for assistance.



DRAINING THE FUEL TANK

Carefully read p. 25 (FUEL).

▲ WARNING

Risk of fire.

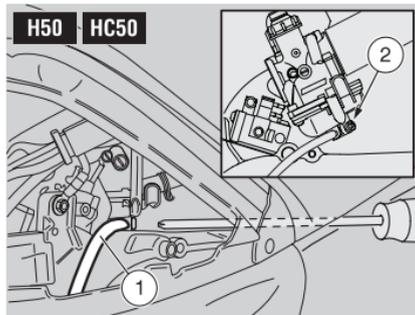
Wait until the engine and the exhaust silencer have completely cooled down. Fuel vapours are noxious for your health.

Before proceeding, make sure that the room in which you are working is properly ventilated.

Do not inhale fuel vapours.

Do not smoke, nor use free flames.

DO NOT DISPOSE OF FUEL IN THE ENVIRONMENT.

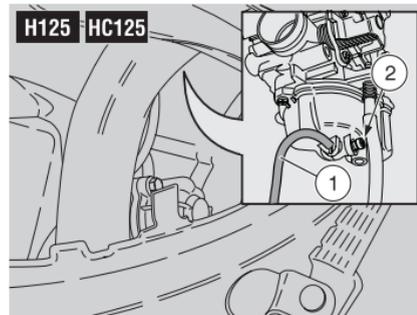


- ◆ Position the vehicle on the centre stand.
- ◆ Stop the engine and wait until it has cooled down.
- ◆ Prepare a container with capacity exceeding the fuel quantity present in the tank and put it on the ground on the left side of the vehicle.
- ◆ Remove the filler cap.
- ◆ Empty the fuel tank by means of a manual pump or a similar system.

▲ WARNING

After draining the tank, put back the filler cap in the correct position.

- ◆ Put back the filler cap.



To drain the carburettor completely, proceed as follows:

- ◆ Remove the left inspection cover, see p. 57 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- ◆ Put the free end of the pipe (1) into a receptacle.
- ◆ Open the carburettor outlet by loosening the drain screw (2) positioned under the float chamber.

When all the fuel has flowed out of the carburettor:

- ◆ Tighten the drain screw (2) completely.

▲ WARNING

Tighten the drain screw (2) with care, to avoid fuel leakages from the carburettor during the refuelling.

If necessary, contact an **aprilia** Official Dealer.



Clean the vehicle frequently if it used in particular areas or conditions, such as:

- ◆ Polluted areas (cities and industrial areas).
- ◆ Areas characterized by an high percentage of salinity and humidity (sea areas, hot and humid climates).
- ◆ Particular conditions (use of salt and anti-ice chemical products on the roads during the winter).
- ◆ Avoid leaving deposits of industrial and polluting powders, tar spots, dead insects, bird droppings, etc. on the body.
- ◆ Avoid parking the vehicle under trees, since in some seasons residues, resins, fruits or leaves fall down, which contain substances that may damage the paint.

⚠ WARNING

After the vehicle has been washed, its braking functions could be temporarily impaired because of the presence of water on the grip surfaces. Calculate long braking distances to avoid accidents. Brake repeatedly to restore normal conditions.

Carry out the preliminary checking operations, see p. 33 (PRELIMINARY CHECKING OPERATIONS).

To remove dirt and mud from the painted surfaces use a low- pressure water jet, carefully wet the dirty parts, remove mud and filth with a soft car sponge impregnated with a lot of water and shampoo (2 – 4% parts of shampoo in water).

Then rinse with plenty of water and dry with chamois leather.

To clean the outer parts of the engine use a degreaser, brushes and wipers.

⚠ CAUTION

Polish with silicone wax only after having carefully washed the vehicle. Do not wash the vehicle under the sun, especially during the summer, when the body is still warm, since if the shampoo dries before being rinsed away, it can damage the paint.

Do not use liquids at a temperature exceeding 40°C to clean the plastic components of the vehicle

Use neither high pressure water / air jets, nor vapour jets on the following parts: wheel hubs, controls on the right and on the left side of the handlebar, bearings, brake pumps, instruments and indicators, silencer exhaust, glove / tool kit compartment, ignition switch / steering lock.

Do not use alcohol or solvents to clean the rubber and plastic parts and the saddle: use water and mild soap.

⚠ WARNING

Do not apply protection waxes onto the saddle, in order not to make it too slippery.

LONG PERIODS OF INACTIVITY

After a long period of inactivity of the vehicle some precautions are necessary to avoid any problem.

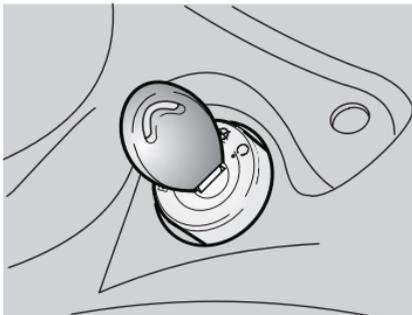
Further, it is important to carry out the necessary repairs and a general check up before the period of inactivity, since you could forget to carry them out later.

Proceed as follows:

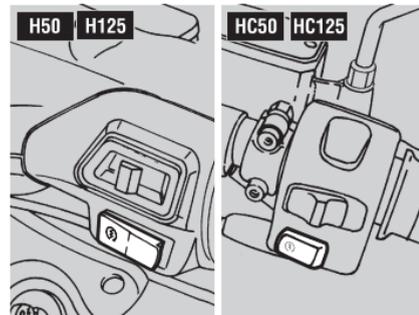
- ◆ Empty the fuel tank and the carburettor, see p. 77 (DRAINING THE FUEL TANK).
- ◆ Extract the spark plug, see p. 60 (SPARK PLUG) and pour a teaspoon (5-10 cm³) of two-stroke engine oil into the cylinder,

NOTE Put a clean cloth on the cylinder, near the spark plug seat, in order to protect it from oil sprays.

- ◆ Move the ignition switch to position “O”, press the start push button “Ⓢ” for a few seconds, to distribute the oil evenly on the cylinder surfaces.
- ◆ Remove the cloth.
- ◆ Put back the spark plug.
- ◆ Remove the battery, see p. 63 (REMOVING THE BATTERY **H50 HC50**) and p. 64 (REMOVING THE BATTERY **H125 HC125**).



- ◆ Wash and dry the vehicle, see p. 78 (CLEANING).
- ◆ Polish the painted surfaces with wax.
- ◆ Inflate the tyres, see p. 30 (TYRES).
- ◆ By means of a suitable support, position the vehicle so that both tyres are raised from the ground.
- ◆ Place the vehicle in an unheated, not-humid room, away from sunlight, with minimum temperature variations.
- ◆ Position and tie a plastic bag on the final pipe of the exhaust silencer, in order to prevent moisture from getting into it.
- ◆ Cover the vehicle avoiding the use of plastic or waterproof materials.



AFTER A PERIOD OF INACTIVITY

- ◆ Uncover and clean the vehicle, see p. 78 (CLEANING).
- ◆ Check the charge of the battery, see p. 65 (RECHARGING THE BATTERY) and install it, see p. 65 (INSTALLING THE BATTERY **H50 HC50**) and (INSTALLING THE BATTERY **H125 HC125**).
- ◆ Make sure that the fuel drain screw is thoroughly screwed (breather pipe closing index), see p. 77 (DRAINING THE FUEL TANK).
- ◆ Refuel, see p. 25 (FUEL).
- ◆ Carry out the preliminary checking operations, see p. 33 (PRELIMINARY CHECKING OPERATIONS).

⚠ WARNING

Have a test ride at moderate speed in a low-traffic area.

TECHNICAL DATA

Description		H50	HC50	H125	HC125
DIMENSIONS	Max. length	1900 mm	1950 mm	1980 mm	
	Max. width	720 mm	900 mm	720 mm	920 mm
	Max. height (headlight included)	1075 mm	1120 mm	1090 mm	1135 mm
	Seat height	745 mm	750 mm	780 mm	755 mm
	Distance between centres	1300 mm	1285 mm	1350 mm	
	Min. ground clearance	137 mm	140 mm	85 mm	
	Weight ready for starting	97 kg			115 kg
ENGINE	Model	-		M222	
	Type	2-stroke with controlled ignition		4-stroke with controlled ignition	
	Number of valves	-		2	
	Number of cylinders	horizontal one-cylinder			
	Total displacement	49,38 cm ³		124,0 cm ³	
	Bore/stroke	41,0 mm / 37,4 mm		57,0 mm / 48,6 mm	
	Compression ratio	11,3 ± 0,5:1		10,8 ± 0,5:1	
	Starting	electric + kick starter			
	Clutch	centrifugal			
	Change gear	automatic stepless variator			
	Lubrication system	-		With wet sump, forced circulation with mechanical pump; level check through sight glass	
Cooling	with forced air				

Description		H50	HC50	H125	HC125
TRANSMISSION	Speed change gear	automatic and stepless			
	Primary	V-belt			
	Ratios	minimum for stepless change: 2,9 maximum for stepless change: 0,75		minimum for stepless change: 2,38 maximum for stepless change: 0,79	
	Secondary	with gears			
CAPACITY	Fuel (reserve included)	7,5ℓ		8ℓ	
	Fuel reserve	2ℓ			
	Transmission oil	130 cm ³		85 cm ³	
	2 stroke oil (reserve included)	1,4ℓ		-	
	2 stroke oil reserve	0,4ℓ		-	
	Engine oil - engine oil change only	-		850 cm ³	
	Seats	1 (2 in the countries where this is allowed)		n° 2	
	Vehicle max. load (driver + luggage)	105 kg		105 kg	
CARBURETTOR	Model	KEIHN PWS 12		MIKUNI BS 24	
	Choke tube	Ø12 mm		Ø22 mm	
FUEL SUPPLY	Fuel	Premium grade petrol (4 Stars ) according to the DIN 51600 standard, min. O.N. 98 (N.O.R.M.) and 88 (N.O.M.M.)		Leaded (4 Stars ) or unleaded premium grade petrol, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.)	
	Fuel 	Unleaded petrol according to the DIN 51607 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.)		-	

Description		H50	HC50	H125	HC125
FRAME	Type	one beam split in two at the rear			
SUSPENSIONS	Front	fork with connection elements			
	Stroke	50 mm			
	Rear	hydraulic mono-shock absorber			
	Stroke	67,5 mm	72 mm		
BRAKES	Front	disc brake, Ø190 mm with hydraulic transmission			
	Rear	drum brake, Ø120 mm, with mechanic transmission	drum brake, Ø140 mm, with mechanic transmission		
WHEELS	Type	alloy			
	Front	3,00 x 12"			
	Rear	3,50 x 10"			
TYRES	Type	tubeless			
	Front	120/70 - 12" - 51J	120/70 - 12" - 51P		
	Rear	130/70 - 10" - 59J	130/70 - 10" - 59P		
	STANDARD INFLATION PRESSURE				
	Front	170 kPa (1,7 bar)			
	Rear	190 kPa (1,9 bar)			
	INFLATION PRESSURE WITH PASSENGER (H50 HC50 where drive with passenger is allowed)				
	Front	190 kPa (1,9 bar)	170 kPa (1,7 bar)		
	Rear	210 kPa (2,1 bar)			
IGNITION	Type	C.D.I.			
	Spark advance	14° ± 1° before T.D.C.	10° ± 1° before T.D.C.		

Description		H50	HC50	H125	HC125
SPARK PLUG	Standard	NGK R BPR8HS		CHAMPION RG4HC	
	alternative	NGK R BPR7HS		-	
	Spark plug gap	0,6 - 0,7 mm		0,7 - 0,8 mm	
	Engine idle rpm	1600 ± 200 rpm			
ELECTRIC SYSTEM	Battery	12 V - 4 Ah		12 V - 9 Ah	
	Fuses	7,5 A - 10 A		7,5 A - 15 A	
	Generator (with permanent magnet)	12 V - 115 W		12 V - 100 W	
BULBS	Low / high beam	12 V - 35/35 W		-	
	Low / high beam (halogen)	-		12 V - 55/60 W H4	
	Front parking light	12 V - 5 W		12 V - 3 W	
	Direction indicators	12 V - 10 W			
	Rear parking light / stoplight / number plate light	12 V - 5/21 W		-	
	Rear parking light / stoplight	-		12 V - 5/21 W	
	Number plate light	-		12 V - 3 W	
	Dashboard light	12 V - 2 W	12 V - 1,2 W	12 V - 1,2 W	
WARNING LIGHTS	Low beam and parking light	12 V - 1,2 W			
	High beam	12 V - 1,2 W			
	Direction indicators	12 V - 2 W			
	2 stroke oil reserve	12 V - 2 W		-	
	Engine oil pressure	-		12 V - 2 W	
	Low fuel	12 V - 2 W			

LUBRICANT CHART

Transmission oil (recommended):  F.C., SAE 75W - 90.

As an alternative to the recommended oil, it is possible to use high-quality oils with characteristics in compliance with or superior to the A.P.I. GL4 specifications.

2 stroke oil (recommended):  GREEN HIT 2.

Use high-quality oils with characteristics in compliance with or superior to the ISO-L-ETC++, A.P.I. TC++ specifications.

Fork oil (recommended):  F.A. 5W or  F.A. 20W fork oil.

If you need an oil with intermediate characteristics in comparison with the two recommended products, these can be mixed as indicated below:

SAE 10W  F.A. 5W 67% of the volume, +  F.A. 20W 33% of the volume.

SAE 15W  F.A. 5W 33% of the volume, +  F.A. 20W 67% of the volume.

Bearings and other lubrication points (recommended):  AUTOGREASE MP.

As an alternative to the recommended product, use high-quality grease for rolling bearings, working temperature range -30°C...+140°C, dripping point 150°C...230°C, high protection against corrosion, good to water and oxidation resistance.

Protection of the battery poles: neutral grease or vaseline.

Spray grease for chains (recommended):  CHAIN SPRAY.

Brake fluid (recommended):  F.F., DOT 5 (DOT 4 compatible).

WARNING

Use new brake fluid only.

LUBRICANT CHART

Engine oil (recommended):  EXTRA RAID 4 SAE 15W / 50.

As an alternative to the recommended oil, it is possible to use high-quality oils with characteristics in compliance with or superior to the CCMC G-4, A.P.I. SG specifications.

Transmission oil (recommended):  F.C., SAE 75W - 90.

As an alternative to the recommended oil, it is possible to use high-quality oils with characteristics in compliance with or superior to the A.P.I. GL4 specifications.

Fork oil (recommended):  F.A. 5W or  F.A. 20W fork oil.

If you need an oil with intermediate characteristics in comparison with the two recommended products, these can be mixed as indicated below:

SAE 10W  F.A. 5W 67% of the volume, +  F.A. 20W 33% of the volume.

SAE 15W  F.A. 5W 33% of the volume, +  F.A. 20W 67% of the volume.

Bearings and other lubrication points (recommended):  AUTOGREASE MP.

As an alternative to the recommended product, use high-quality grease for rolling bearings, working temperature range -30°C...+140°C, dripping point 150°C...230°C, high protection against corrosion, good to water and oxidation resistance.

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WARNING

Use new brake fluid only.

NOTE

aprilia

ASK FOR GENUINE SPARE PARTS ONLY

NOTE

aprilia

ASK FOR GENUINE SPARE PARTS ONLY

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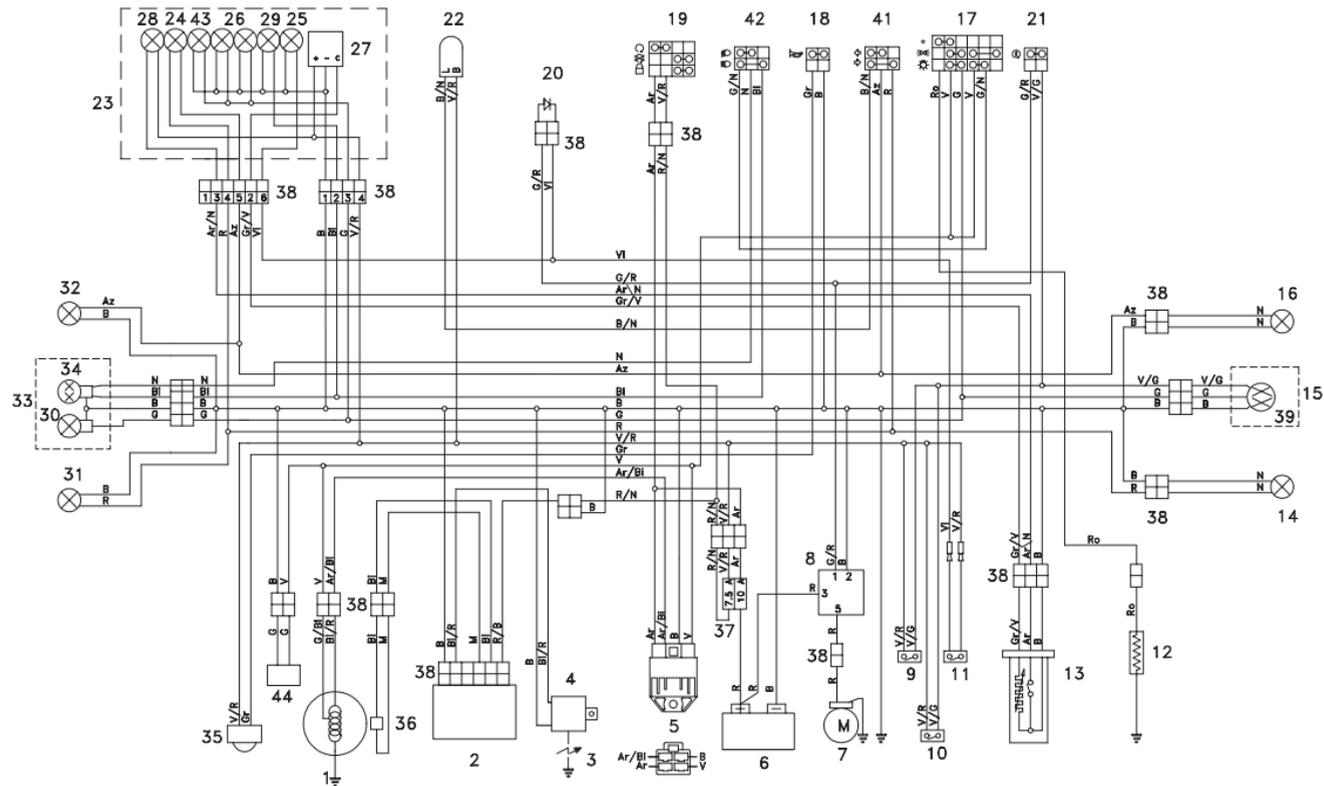
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WIRING DIAGRAM Habana 50



WIRING DIAGRAM KEY Habana 50

- 1) Generator
- 2) CDI
- 3) Spark plug
- 4) HT coil
- 5) Voltage regulator
- 6) Battery
- 7) Starter
- 8) Start relay
- 9) Front stoplight switch
- 10) Rear stoplight switch
- 11) 2 stroke oil reserve switch
- 12) Resistor
- 13) Fuel level sensor
- 14) Rear right direction indicator
- 15) Rear light
- 16) Rear left direction indicator
- 17) Dimmer switch (not provided in the **ASD** version)
- 18) Horn push button
- 19) Ignition switch / steering lock
- 20) Control diode
- 21) Start push button
- 22) Blinking
- 23) Dashboard
- 24) Direction indicator warning light
- 25) 2 stroke oil reserve warning light
- 26) Dashboard light
- 27) Fuel level instrument
- 28) Low fuel warning light
- 29) High beam warning light
- 30) Front parking light

- 31) Front right direction indicator
- 32) Front left direction indicator
- 33) Front light
- 34) Low / high beam bulb
- 35) Horn
- 36) Pick up
- 37) Fuses
- 38) Multiple connectors
- 39) Rear parking light / stoplight / number plate light
- 40) –
- 41) Direction indicator switch
- 42) Left dimmer switch
- 43) Low beam and parking light warning light
- 44) Automatic starter
- 45) Anti-theft device installation point

CABLE COLOURS

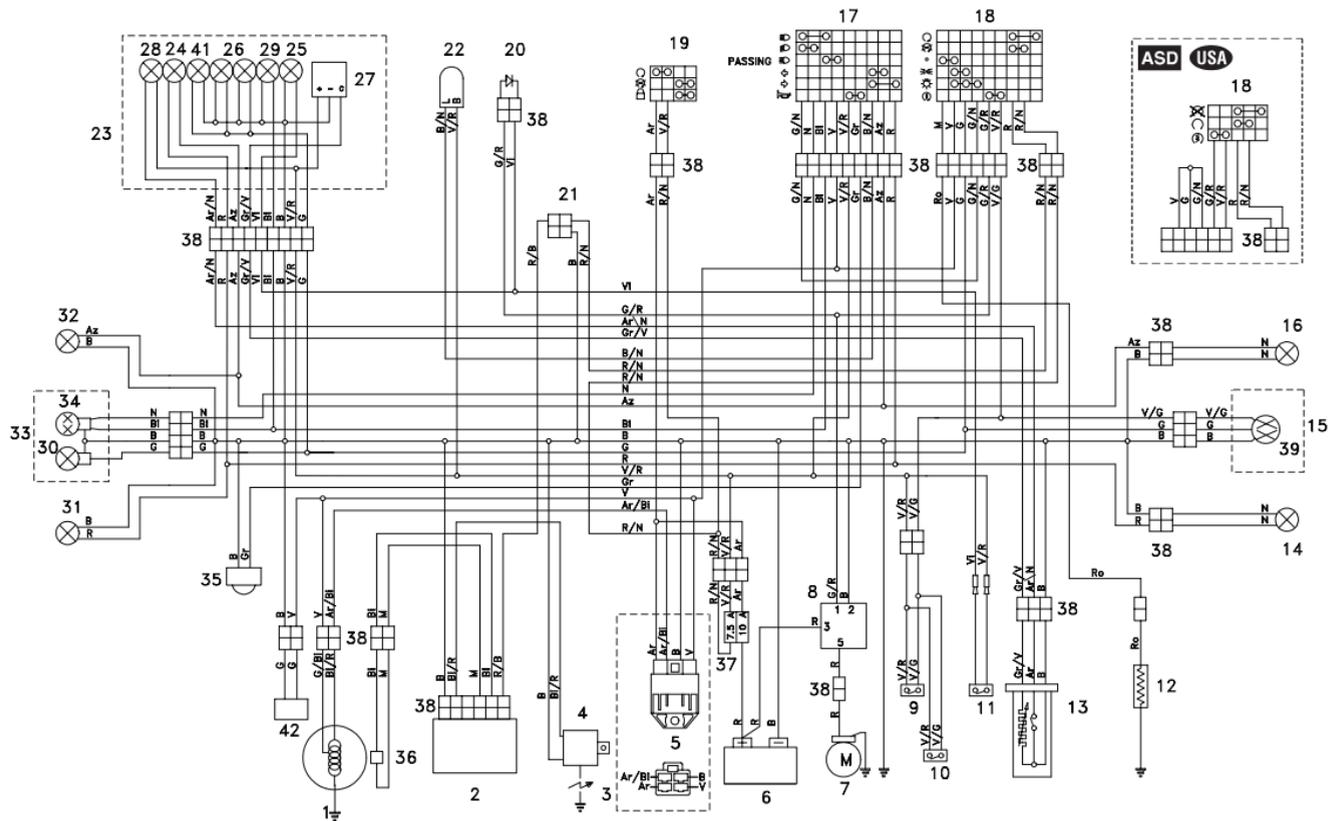
- Ar** orange
Az light blue
b blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

- 1) Generator
- 2) CDI
- 3) Spark plug
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- 9) Front stoplight switch
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- 14) Rear right direction indicator
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- 17) Engine stop switch
- 18) Horn push button
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- 40) –
- 41) Direction indicator switch
- 42) Left dimmer switch
- 43) Low beam and parking light warning light
- 44) Automatic starter
- 45) Anti-theft device installation point

CABLE COLOURS

- Ar** orange
- Az** light blue
- b** blue
- Bi** white
- G** yellow
- Gr** grey
- M** brown
- N** black
- R** red
- V** green
- Vi** violet
- Ro** pink

WIRING DIAGRAM Habana Custom 50



WIRING DIAGRAM KEY Habana Custom 50

- 1) Generator
- 2) CDI
- 3) Spark plug
- 4) HT coil
- 5) Voltage regulator
- 6) Battery
- 7) Starter
- 8) Start relay
- 9) Front stoplight switch
- 10) Rear stoplight switch
- 11) 2 stroke oil reserve switch
- 12) Resistor
- 13) Fuel level sensor
- 14) Rear right direction indicator
- 15) Rear light
- 16) Rear left direction indicator
- 17) Left dimmer switch
- 18) Right dimmer switch
- 19) Ignition switch / steering lock
- 20) Control diode
- 21) Anti-theft device installation point
- 22) Blinking
- 23) Dashboard
- 24) Direction indicator warning light
- 25) 2 stroke oil reserve warning light
- 26) Dashboard light
- 27) Fuel level instrument
- 28) Low fuel warning light
- 29) High beam warning light
- 30) Front parking light
- 31) Front right direction indicator
- 32) Front left direction indicator
- 33) Front light
- 34) Low / high beam bulb
- 35) Horn
- 36) Pick up
- 37) Fuses
- 38) Multiple connectors
- 39) Rear parking light / stoplight / number plate light
- 40) –
- 41) Low beam and parking light warning light
- 42) Automatic starter

CABLE COLOURS

- Ar** orange
Az light blue
b blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM KEY Habana 125

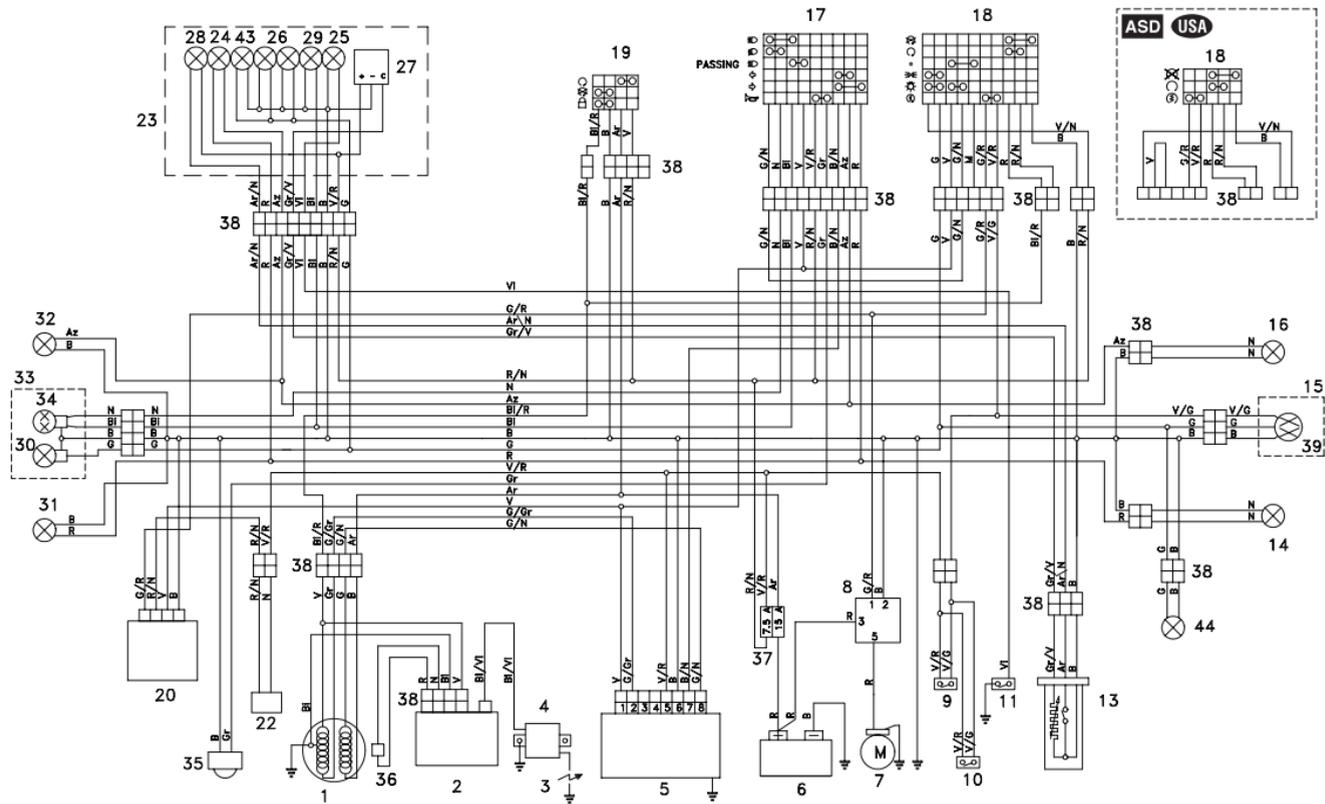
- 1) Generator
- 2) CDI
- 3) Spark plug
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- 5) Voltage regulator
- 6) Battery
- 7) Starter
- 8) Start relay
- 9) Front stoplight switch
- 10) Rear stoplight switch
- 11) Engine oil pressure sensor
- 12) Resistor
- 13) Fuel level sensor
- 14) Rear right direction indicator
- 15) Rear light
- 16) Rear left direction indicator
- 17) Dimmer switch (not provided in the **ASD** version)
- 18) Horn push button
- 19) Ignition switch / steering lock
- 20) Automatic starter control device
- 21) Start push button
- 22) Automatic starter
- 23) Dashboard
- 24) Direction indicator warning light
- 25) Engine oil pressure warning light
- 26) Dashboard light
- 27) Fuel level instrument
- 28) Low fuel warning light
- 29) High beam warning light
- 30) Front parking light

- 31) Front right direction indicator
- 32) Front left direction indicator
- 33) Front light
- 34) Low / high beam bulb
- 35) Horn
- 36) Pick up
- 37) Fuses
- 38) Multiple connectors
- 39) Rear parking light / stoplight / number plate light
- 40) –
- 41) Direction indicator switch
- 42) Left dimmer switch
- 43) Low beam and parking light warning light
- 44) Number plate
- 45) Anti-theft device installation point

CABLE COLOURS

- Ar** orange
Az light blue
b blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM Habana Custom 125



WIRING DIAGRAM KEY Habana Custom 125

- 1) Generator
- 2) CDI
- 3) Spark plug
- 4) HT coil
- 5) Voltage regulator
- 6) Battery
- 7) Starter
- 8) Start relay
- 9) Front stoplight switch
- 10) Rear stoplight switch
- 11) Engine oil pressure sensor
- 12) Resistor
- 13) Fuel level sensor
- 14) Rear right direction indicator
- 15) Rear light
- 16) Rear left direction indicator
- 17) Left dimmer switch
- 18) Right dimmer switch
- 19) Ignition switch / steering lock
- 20) Automatic starter control device
- 21) Anti-theft device installation point
- 22) Automatic starter
- 23) Dashboard
- 24) Direction indicator warning light
- 25) Engine oil pressure warning light
- 26) Dashboard light
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aprilia s.p.a. wishes to thank its customers for the purchase of this vehicle.

- Do not dispose of oil, fuel, polluting substances and components in the environment.
- Do not keep the engine running if it isn't necessary.
- Avoid disturbing noises.
- Respect nature.