



Sales division  
Technical network leadership

# TECHNICAL TRAINING



*V-Clic*

P/N VClic50.001.01/2007.FR.V1



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**CHARACTERISTICS****Engine.**

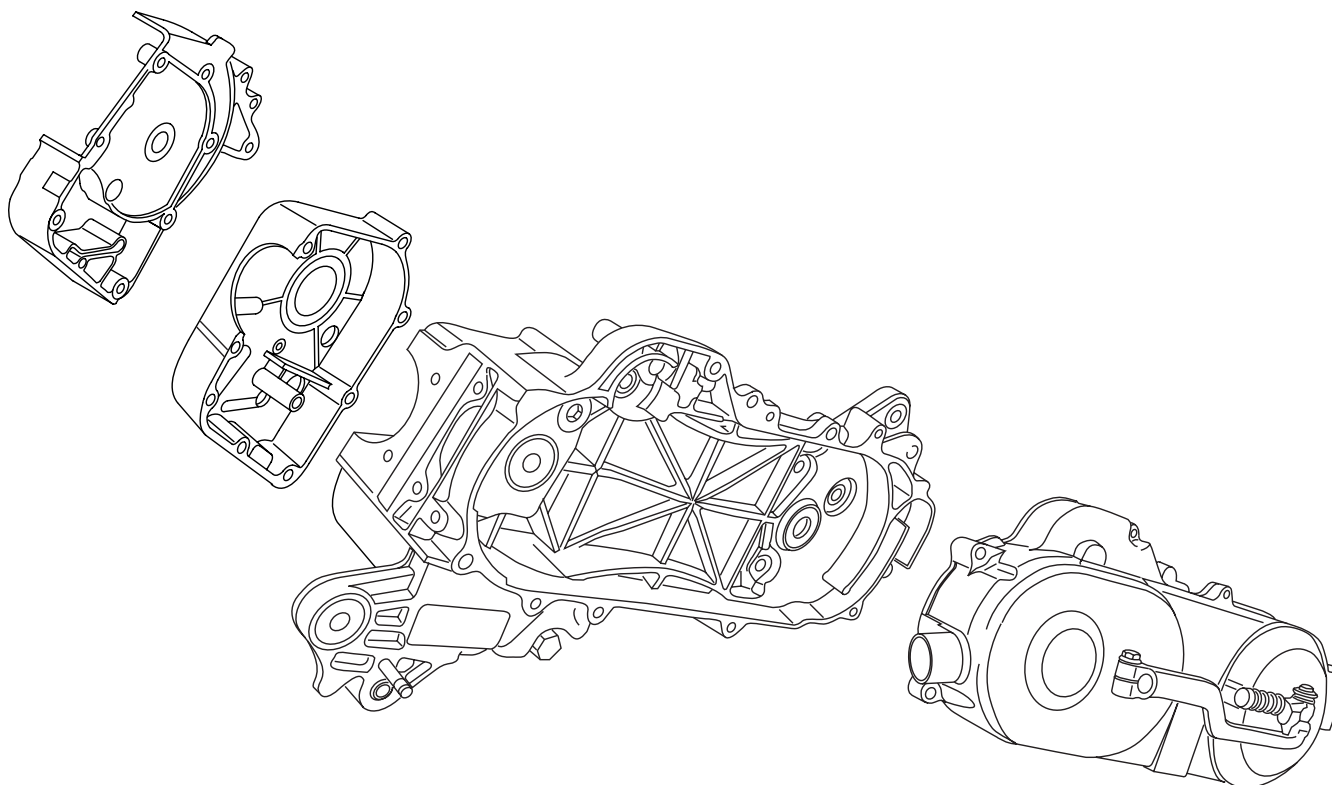
Type.	4-stroke single-cylinder.
Cooling.	Air.
Bore x stroke.	39,0 x 41,4.
Cubic capacity.	49,58 cm <sup>3</sup> .
Max. power output.	2,0kw à 7000 tr/min.
Max. torque rating.	6000 tr/min.
Fuel supply.	Carburettor.
Lubrication.	Mechanical.
Transmission.	By 2 variable pulleys and V-type belt.
Clutch.	Centrifugal automatic.
Spark plug.	NGK CR 7HSA.
Exhaust.	Catalytic.
Standards.	Euro2.

**Chassis.**

Length.	1660 mm.
Width.	700 mm.
Height (without rear-view mirrors).	1070 mm.
Wheelbase.	1200 mm.
Weight.	79.0 kg.
Front tyre.	3.50 - 10".
Rear tyre.	3.50 - 10".
Front tyre pressure.	1.25 bars.
Rear tyre pressure.	1.75 bars.

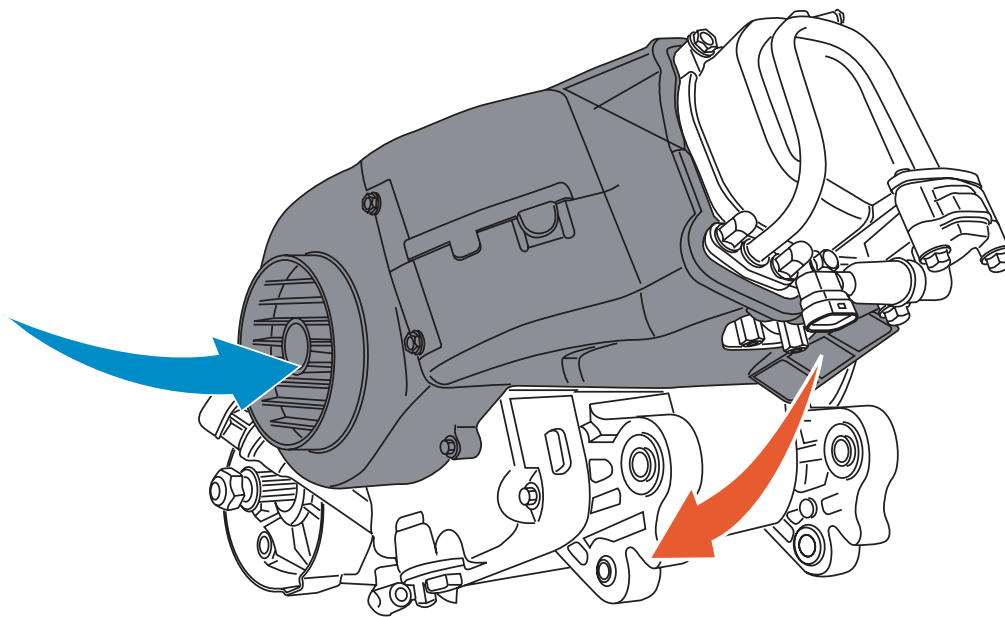
**ENGINE**

4 stroke, 50cc IAE engine with pulsed air cooled horizontal cylinder

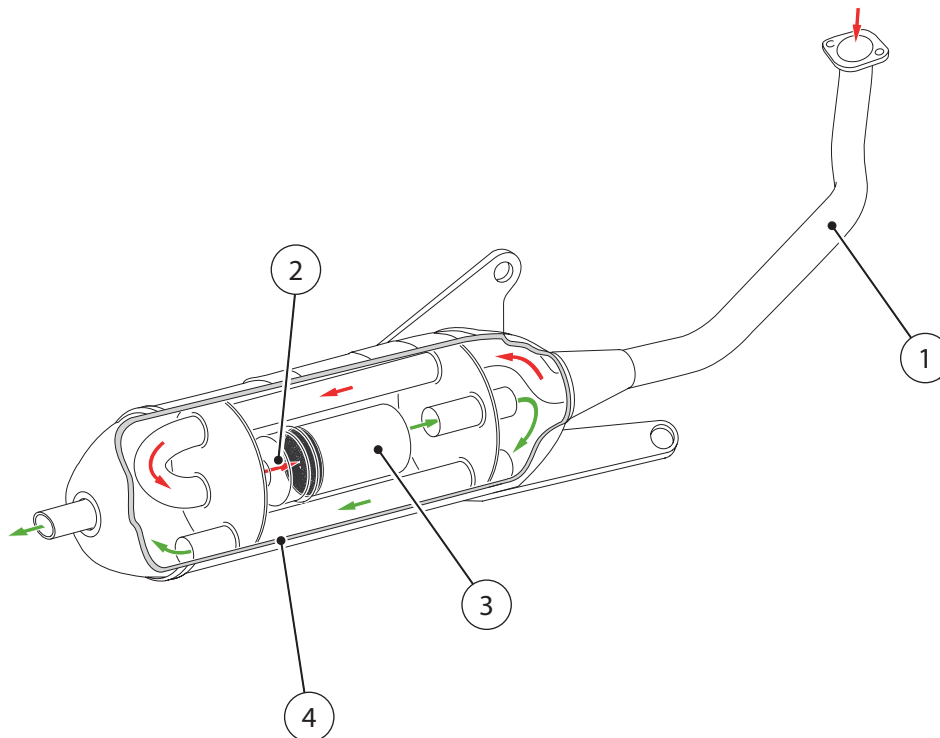


### ■ Cooling

By a circulation of forced air by means of a turbine on the flywheel magneto.

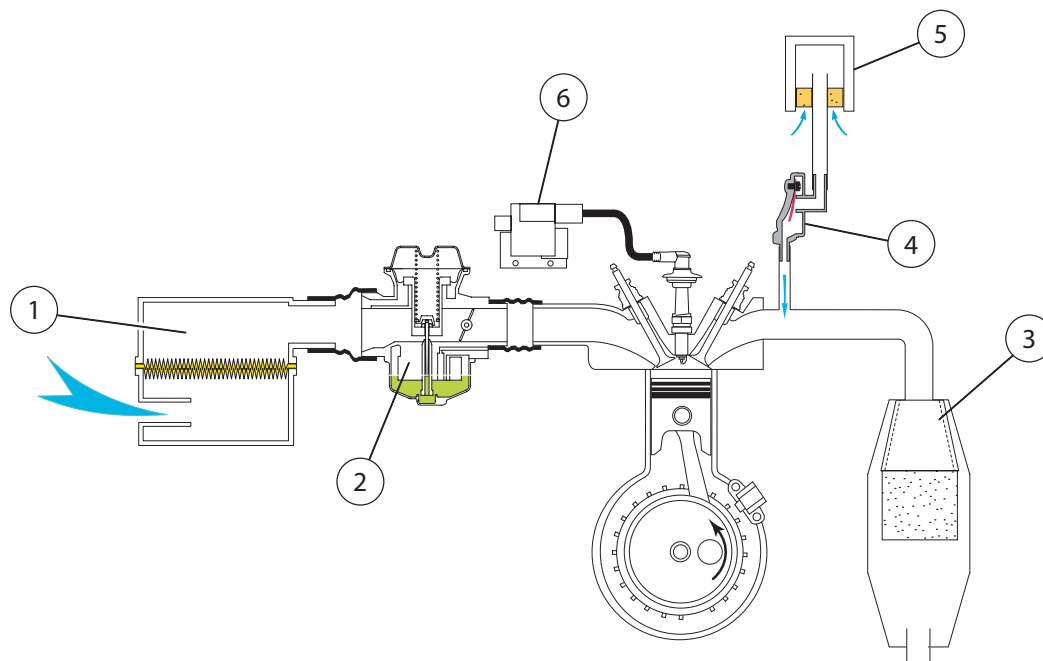


### ■ Exhaust



- 1. Exhaust pipe
- 2. Catalyser cone
- 3. Catalytic block
- 4. Heat insulation

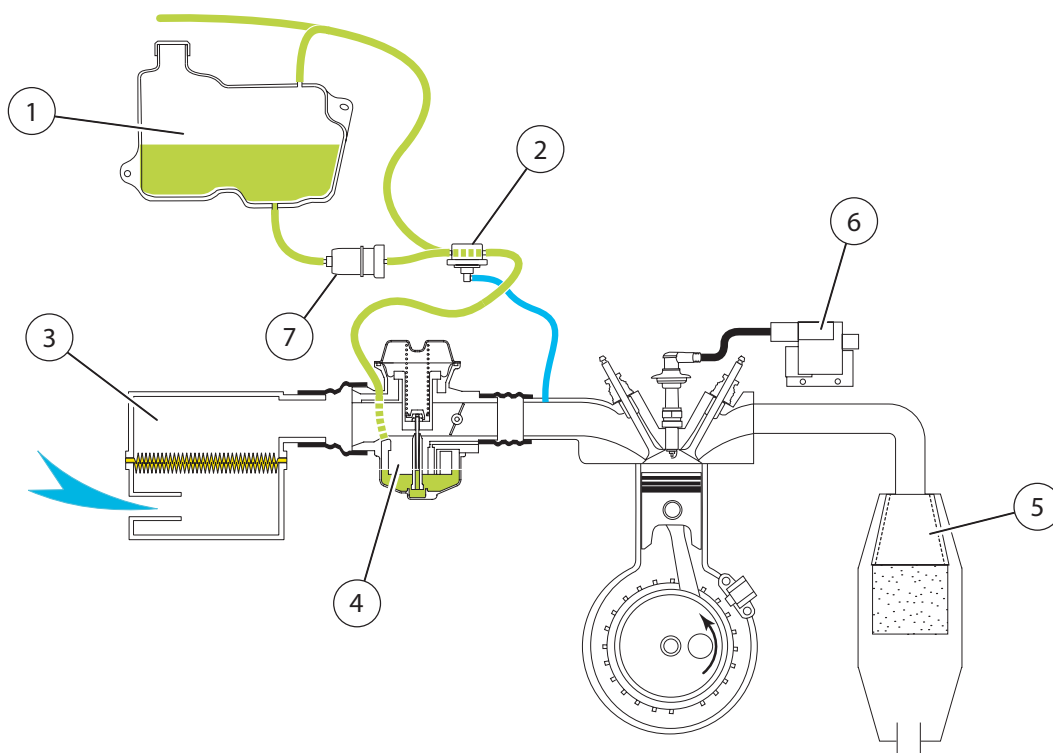
## ■ Air injected into the exhaust system (IAE)



1. Air filter
2. Carburettor
3. Catalytic exhaust

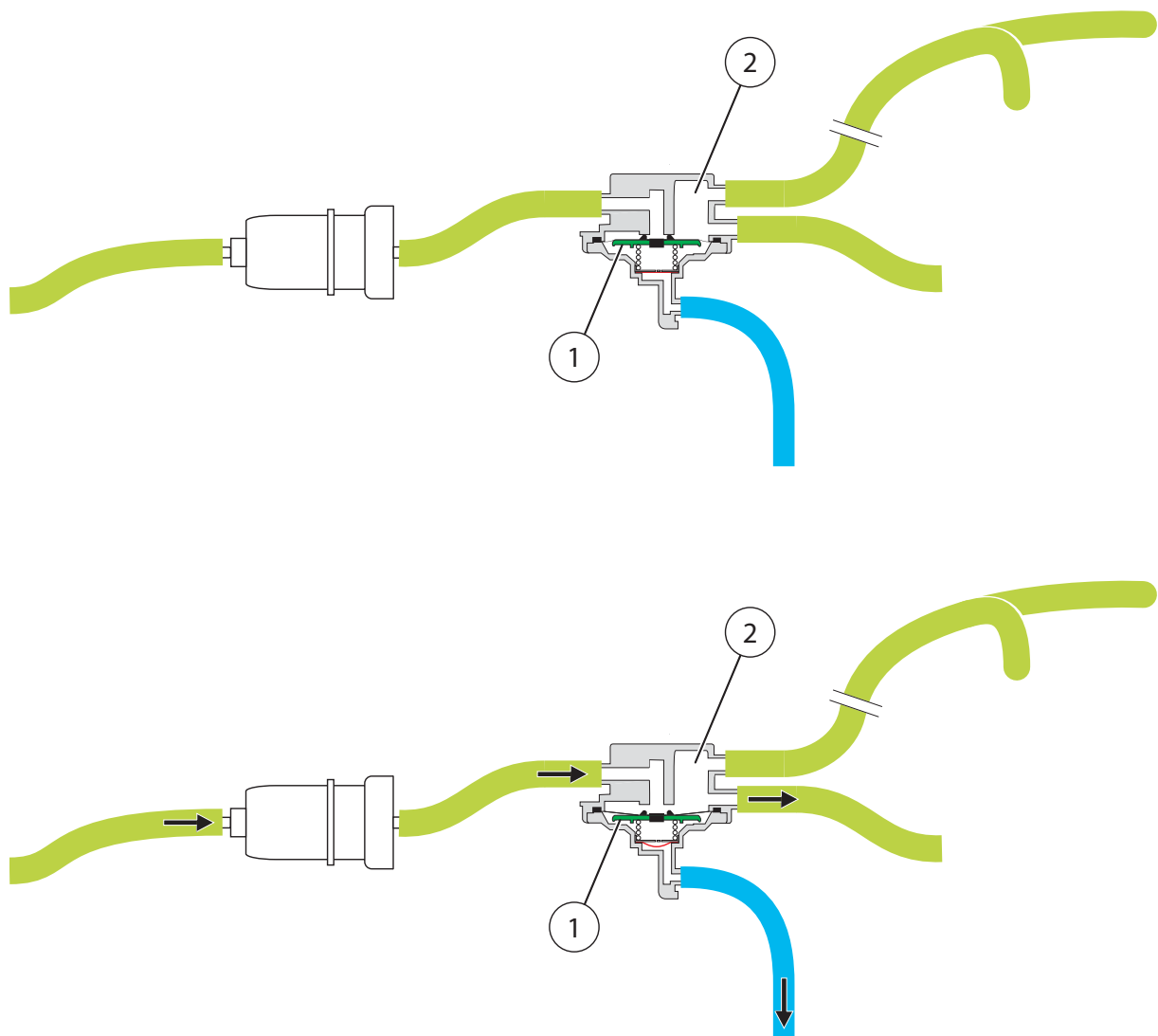
4. Pulsair
5. Filter element (IAE)
6. HT coil

## ■ Fuel system



1. Fuel tank
2. Vacuum-operated cock
3. Air filter
4. Carburettor

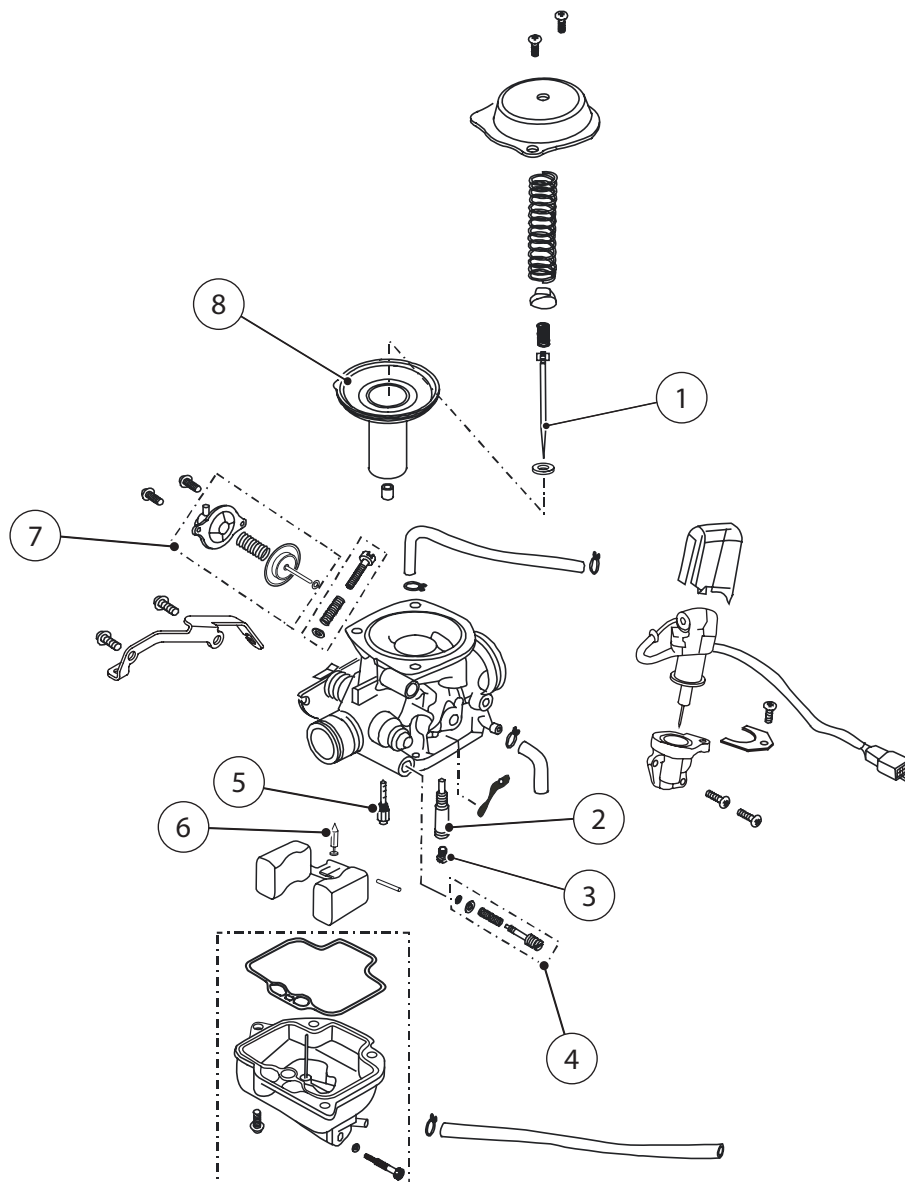
5. Catalytic exhaust
6. HT coil
7. Petrol filter

**■ Vacuum-operated cock****Operation of the vacuum-operated cock**

Under the effect of pulses in the intake circuit, a vacuum pressure is created under the diaphragm (1), and its displacement opens the fuel circuit (2)

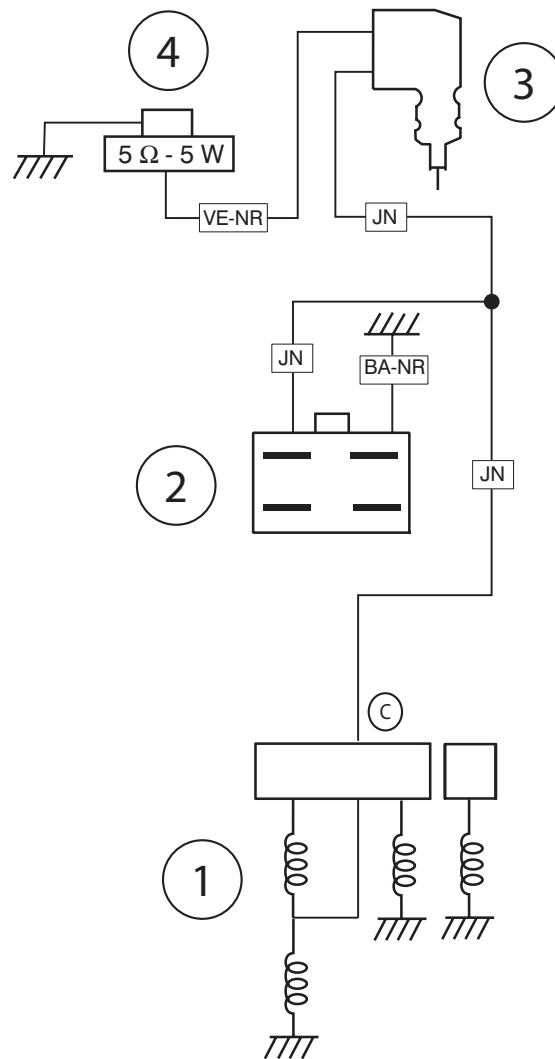


## ■ Carburettor

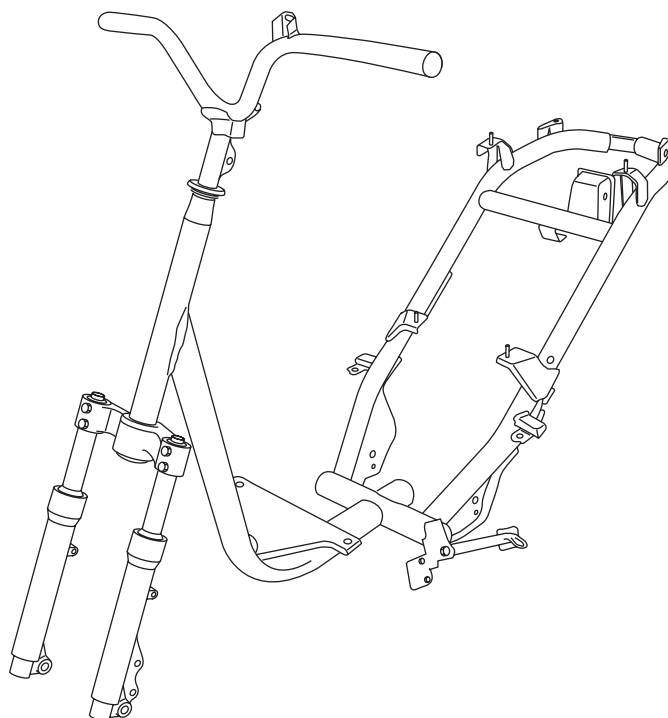


1. Needle (DA8M)
2. Needle well
3. Main jet ( $\varnothing$  82)
4. Mixture screw
5. Idle jet ( $\varnothing$  30)
6. Float and needle
7. Deceleration enrichment device
8. Diaphragm and valve

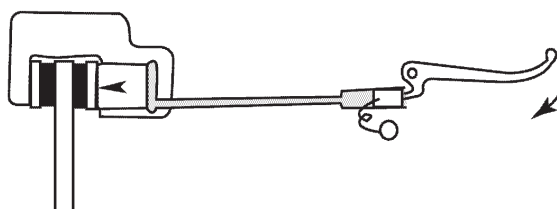
## ■ Choke



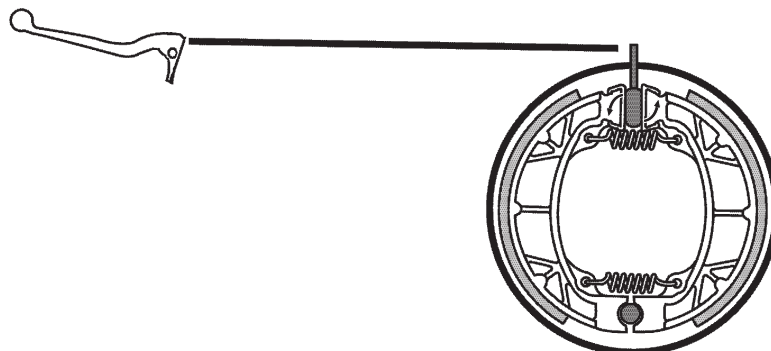
1. Magneto flywheel
- c. Alternating current
2. Regulator
3. Choke
4. Resistance (in series with the choke)

**CYCLE PART****■ Chassis****■ Brakes**

Hydraulic front brake

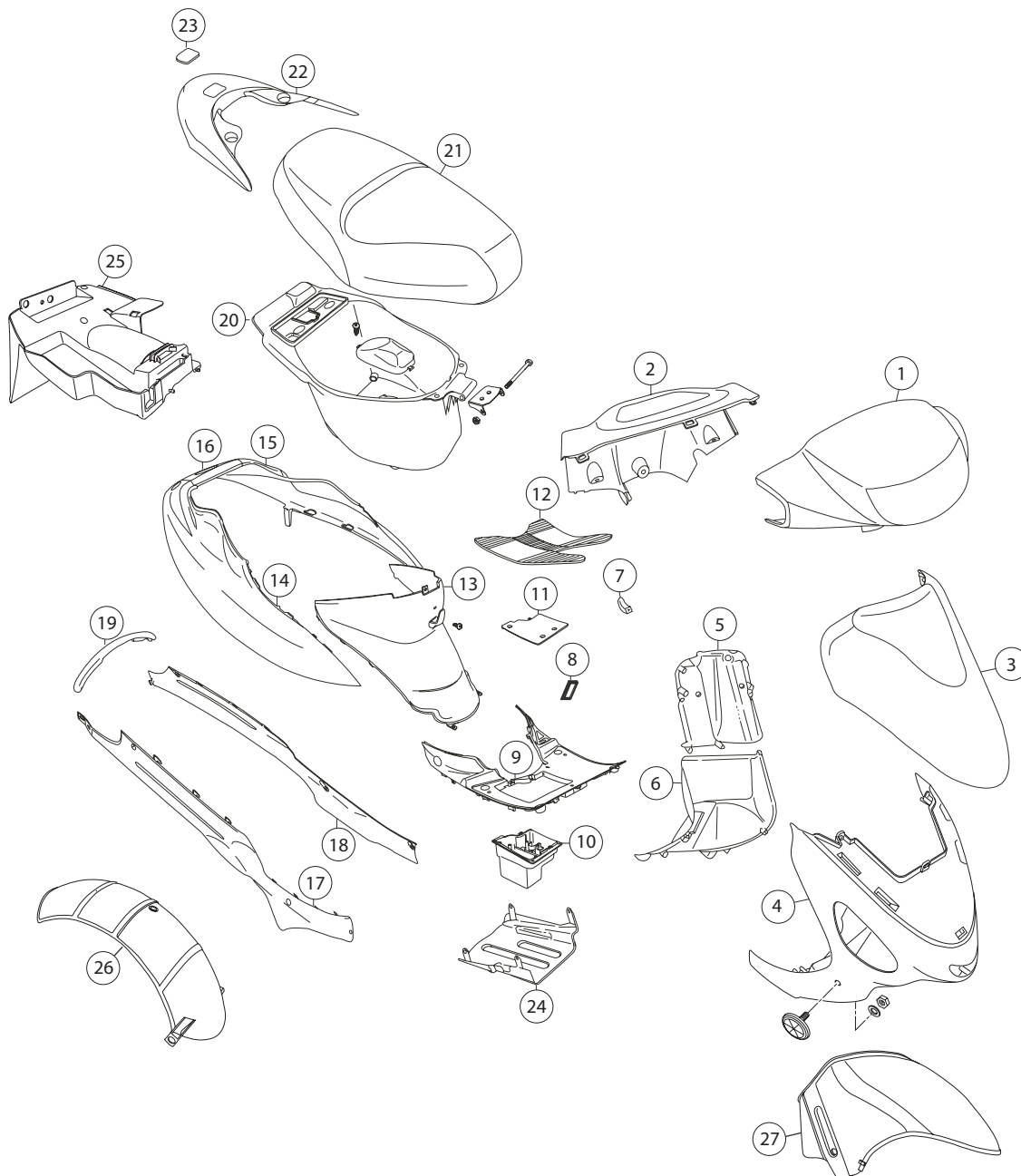


Cable controlled rear brake



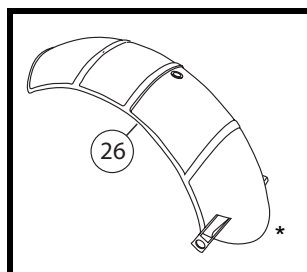
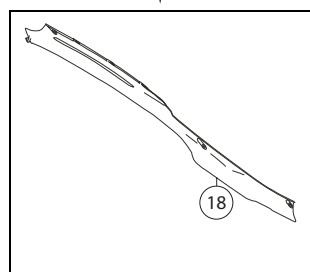
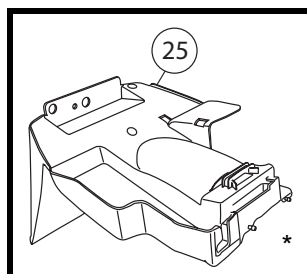
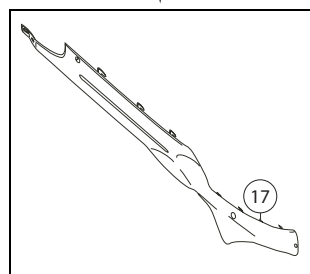
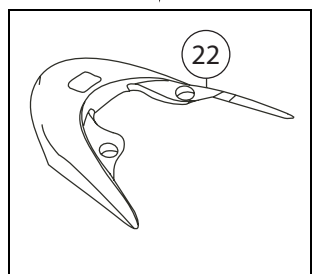
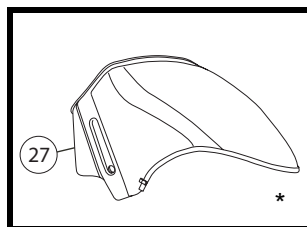
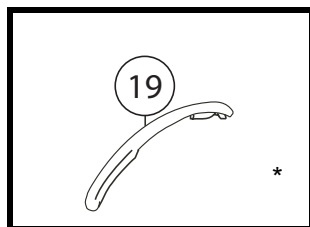
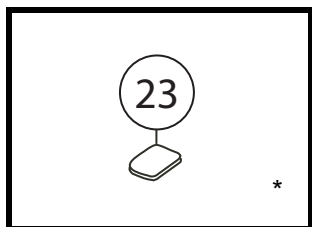
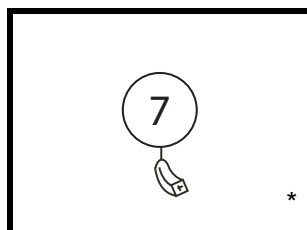
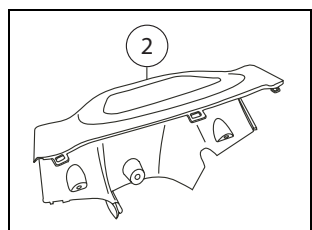
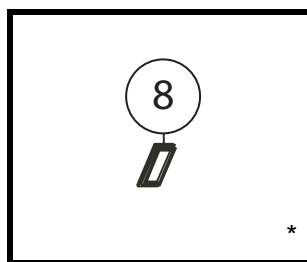
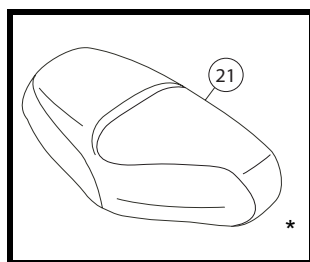
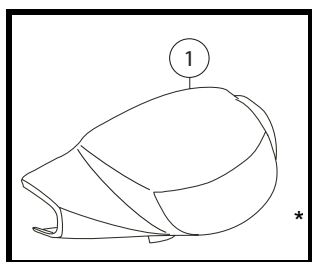
■ Body panels

Description

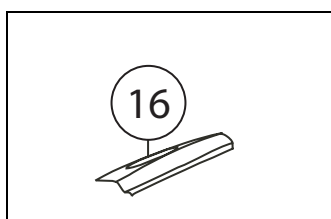
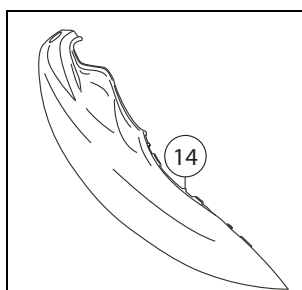
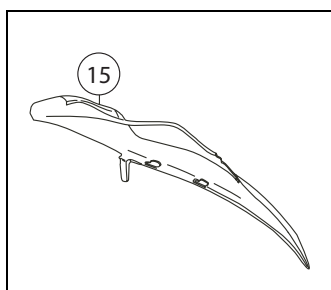
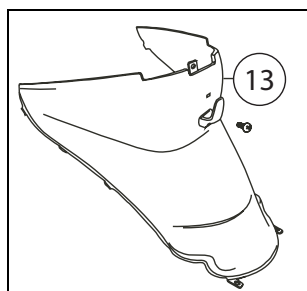
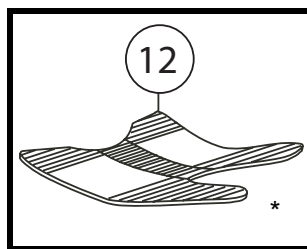
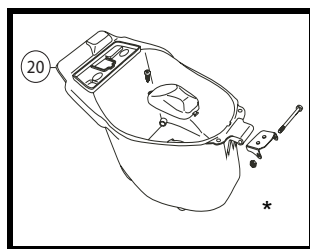


- |                               |                           |                                |
|-------------------------------|---------------------------|--------------------------------|
| 1. Handlebar front fairing    | 10. Battery case          | 19. Lower rear fairing         |
| 2. Handlebar rear fairing     | 11. Battery cover         | 20. Storage compartment        |
| 3. Legshield top panel        | 12. Floor mat             | 21. Saddle                     |
| 4. Front lower legshields     | 13. Central panel         | 22. Luggage carrier rear panel |
| 5. Legshield upper rear panel | 14. RH side fairing       | 23. Luggage carrier cover      |
| 6. Legshield lower rear panel | 15. LH side fairing       | 24. Bottom panel               |
| 7. Utility hanger             | 16. Rear cover            | 25. Mudflap                    |
| 8. Protective plate           | 17. Lower RH side fairing | 26. Rear mudguard              |
| 9. Footboard panel            | 18. Lower LH side fairing | 27. Front mudguard             |

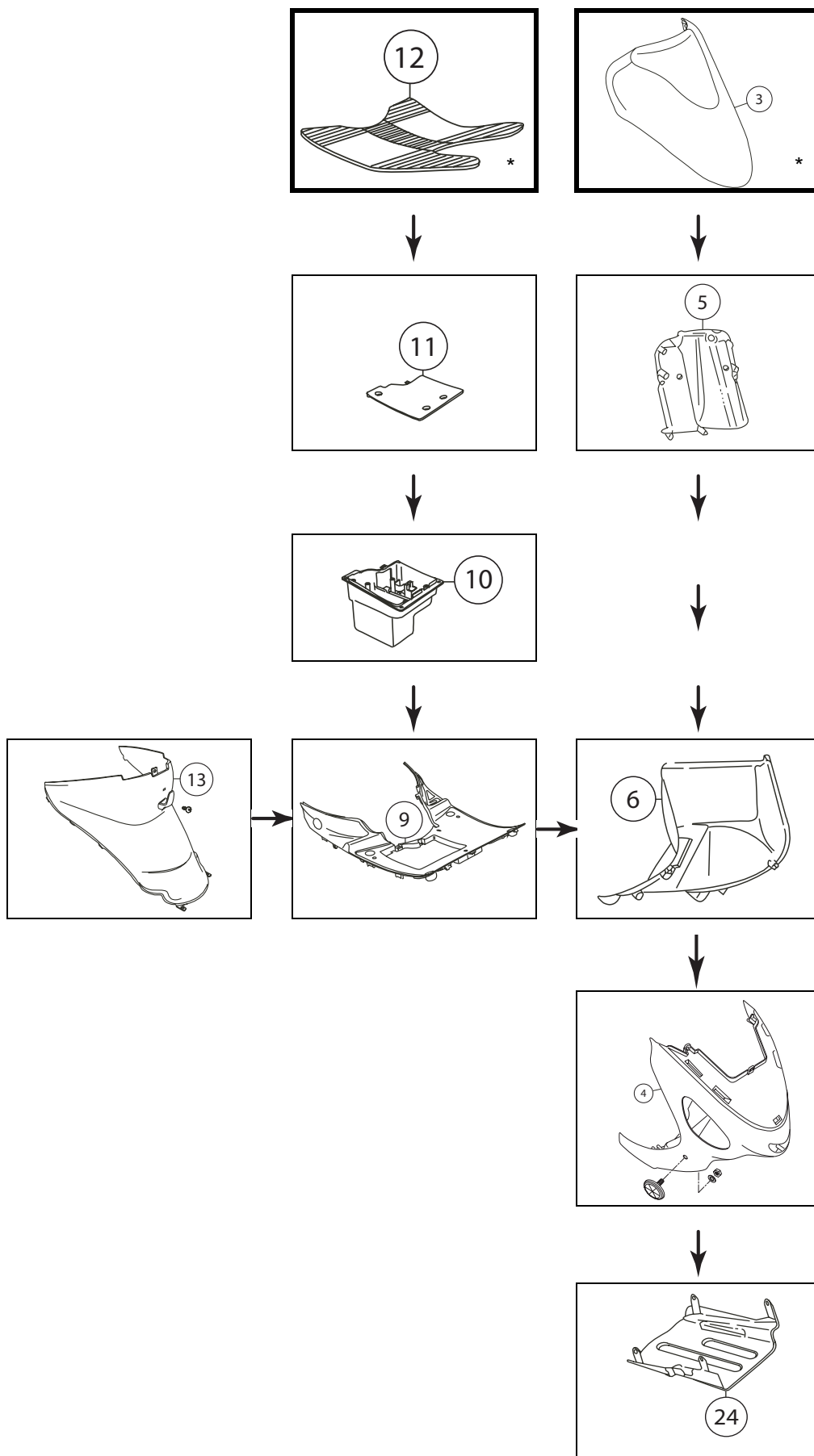
Synoptics



(\*) This item may be removed on its own



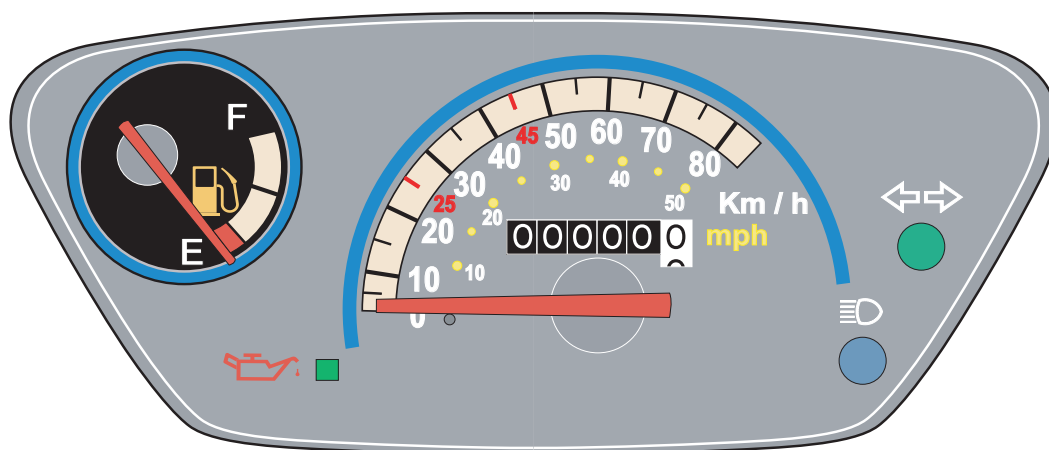
(\*) This item may be removed on its own



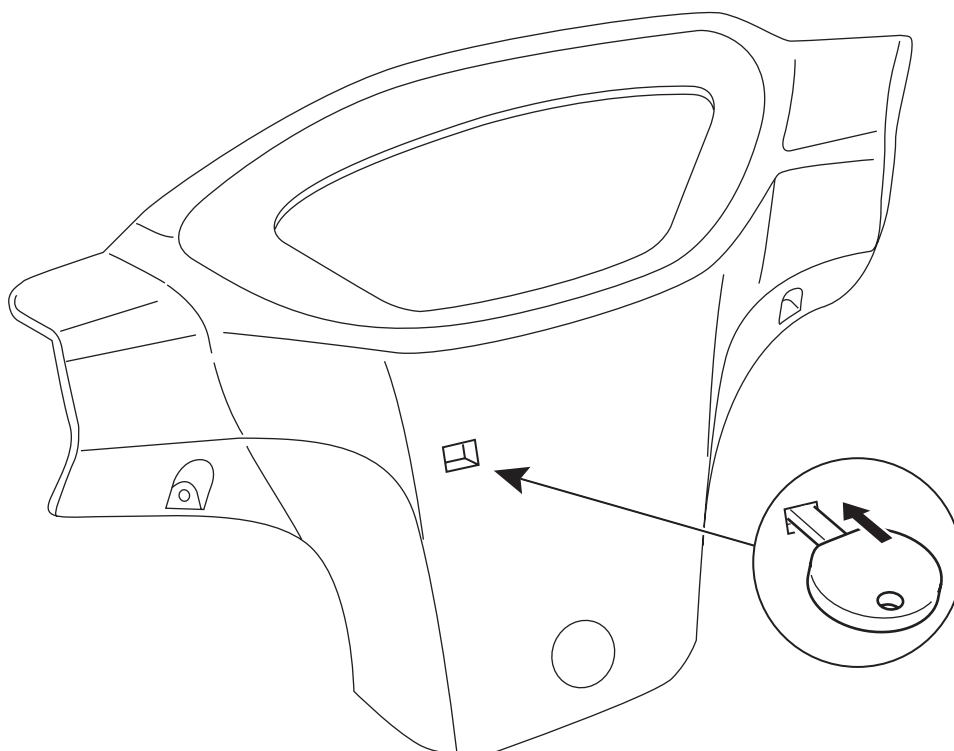
(\*) This item may be removed on its own



■ Instrument panel



**Note:** If the oil warning light goes red, change the engine oil.

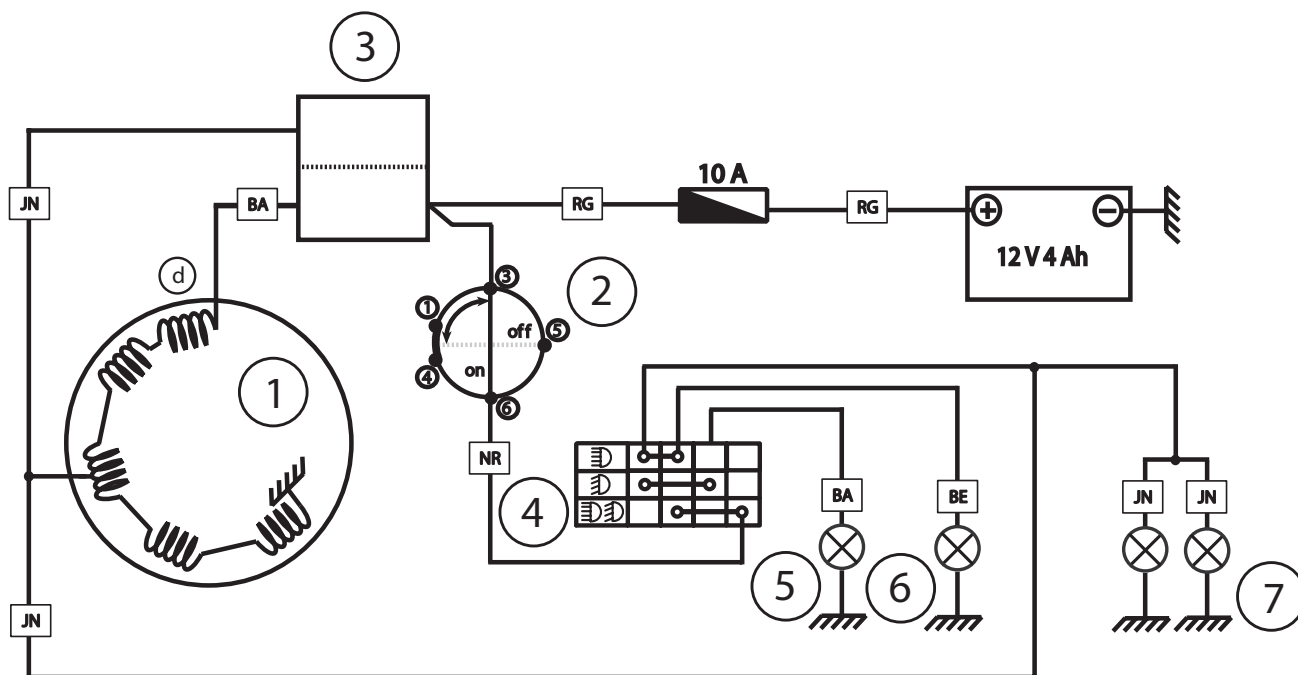


Press with the tip of the ignition key in order to reset the warning light to green.



**WIRING DIAGRAM**

■ **Lighting circuit**



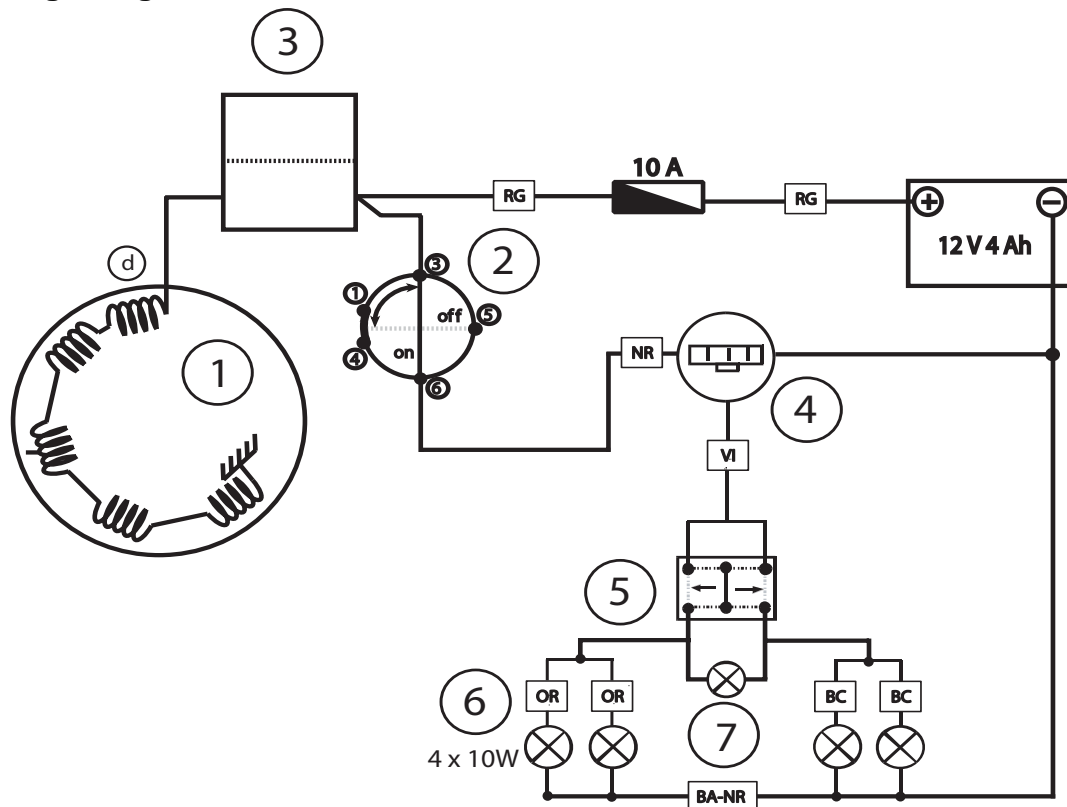
- 1. Magneto flywheel
- d. Battery charge current
- 2. Ignition switch
- 3. Regulator
- 4. Dip switch (main/low headlight)
- 5. Low beam headlight bulb
- 6. Headlight bulb
- 7. Parking light bulb

The lighting circuit is powered by AC circuit which is restricted in voltage.

**Important:**

A faulty voltage regulator / voltage limiting device (3) (overvoltage) can burn out all the bulbs.

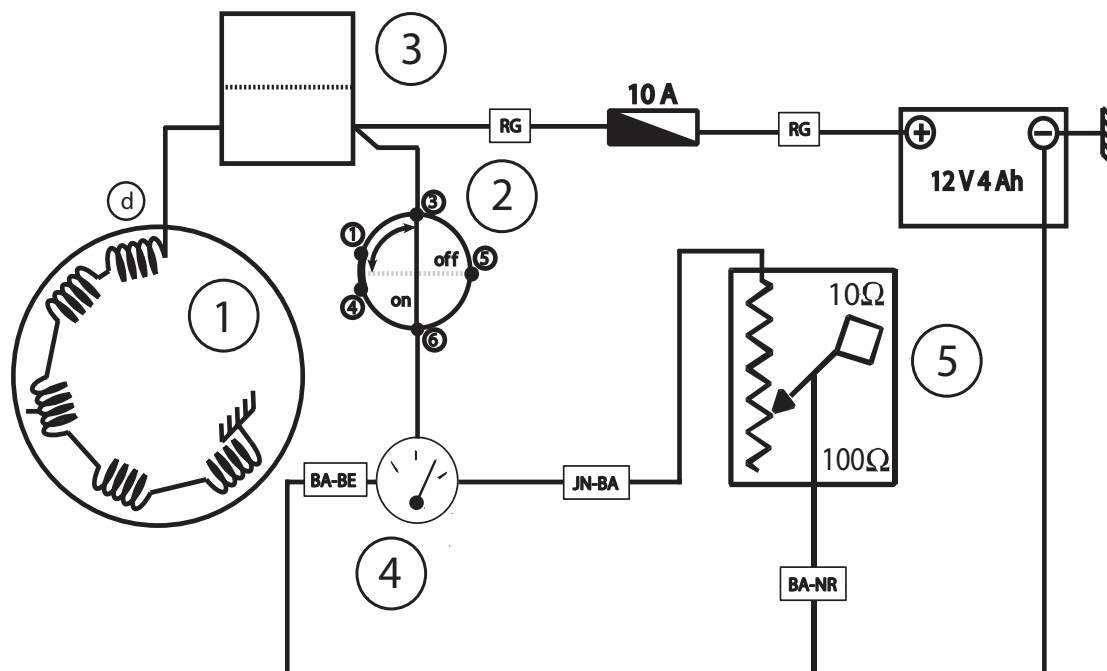
■ Turn signal light circuit



- |                           |                                     |
|---------------------------|-------------------------------------|
| 1. Magneto flywheel       | 4. Flasher unit                     |
| d. Battery charge current | 5. Indicator relay                  |
| 2. Ignition switch        | 6. Blinking lights bulbs            |
| 3. Regulator              | 7. Instrument panel indicator light |

The blinker unit is supplied with DC current when the ignition is on (2).  
 After selecting the operating side by means of the control knob (5), the blinker unit supplies the bulbs (6) with DC current.  
 The repeater (7) goes on at the same time on the instrument panel.

## ■ Fuel gauge circuit



- |                           |               |
|---------------------------|---------------|
| 1. Magneto flywheel       | 3. Regulator  |
| d. Battery charge current | 4. Fuel gauge |
| 2. Ignition switch        | 5. Fuel gauge |

The fuel gauge circuit is supplied with DC current.

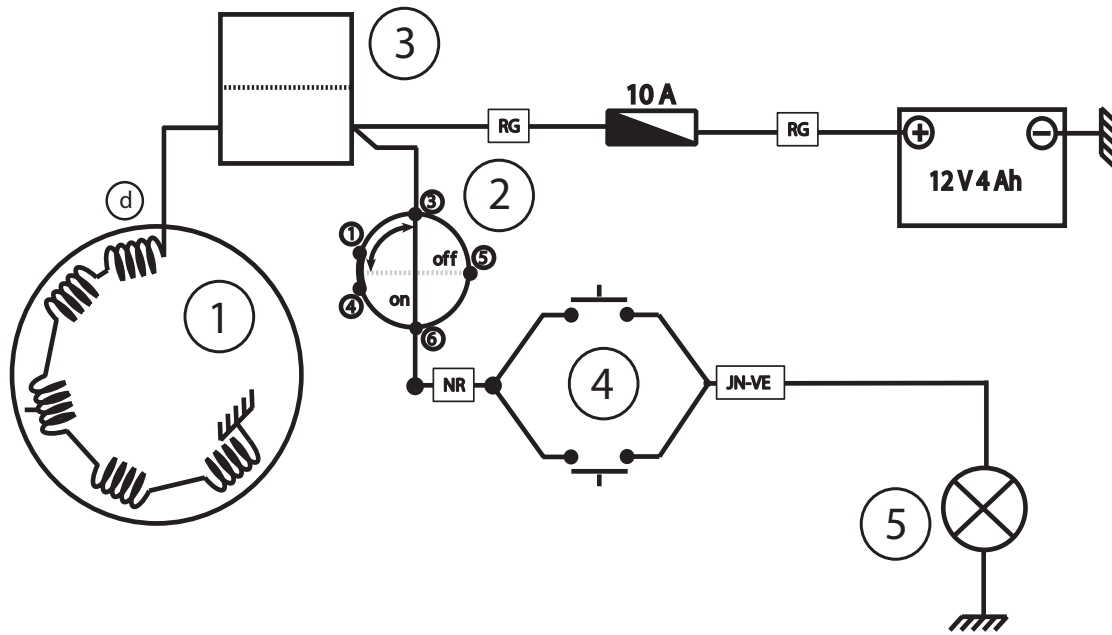
The indicator (4) analyses the current intensity that goes through variable resistor which is connected to the float of the fuel gauge (5), and displays this value, which is in proportion to the level of the fuel level, on the indicator (4).

Full = Minimum resistance, therefore maximum current.

Empty = Maximum resistance, therefore minimum current.

Note: A short circuit on the wire which connects the indicator to the gauge will result in a level which is stuck at a maximum value. Otherwise (wire cut), the indicator remains stuck at the empty level.

■ Stop light circuit

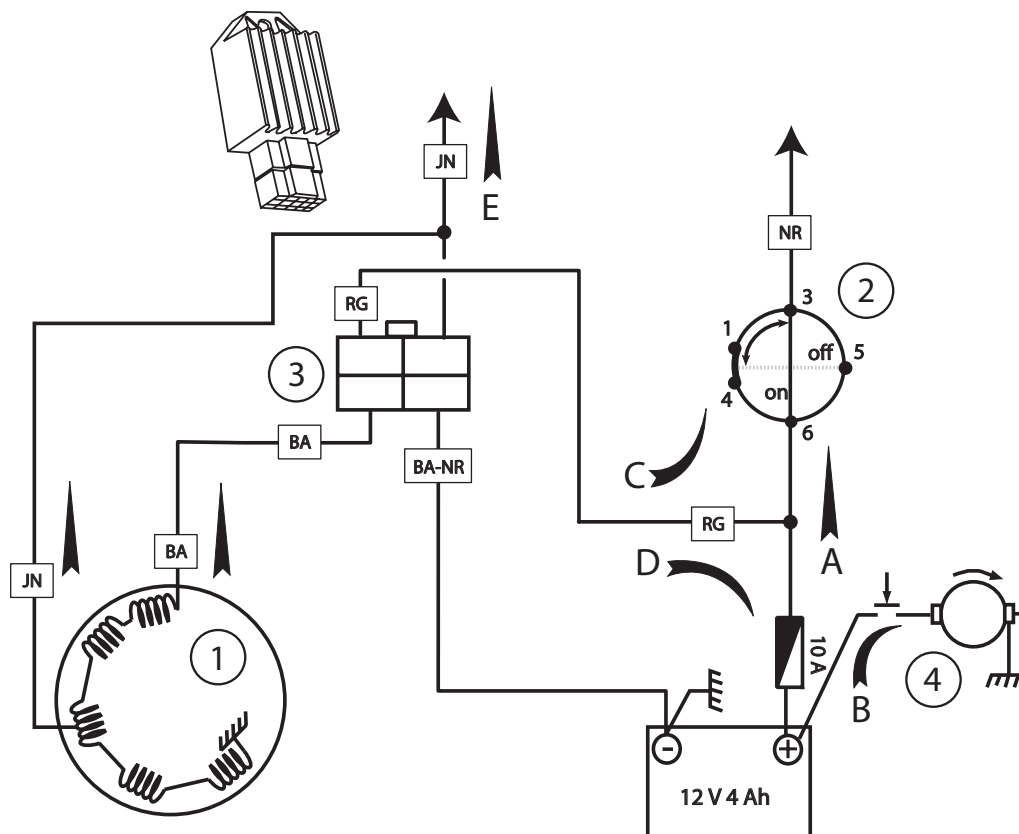


- 1. Magneto flywheel
- d. Battery charge current
- 2. Ignition switch

- 3. Regulator
- 4. Stop light switch
- 5. Stop light bulb

The stop light is supplied with DC current when the ignition is on.

## ■ Battery charge circuit



1. Magneto flywheel
2. Ignition switch

3. Regulator
4. Starter motor

When switching the ignition on, the battery supplies a current (A) to the vehicle's electric circuit.

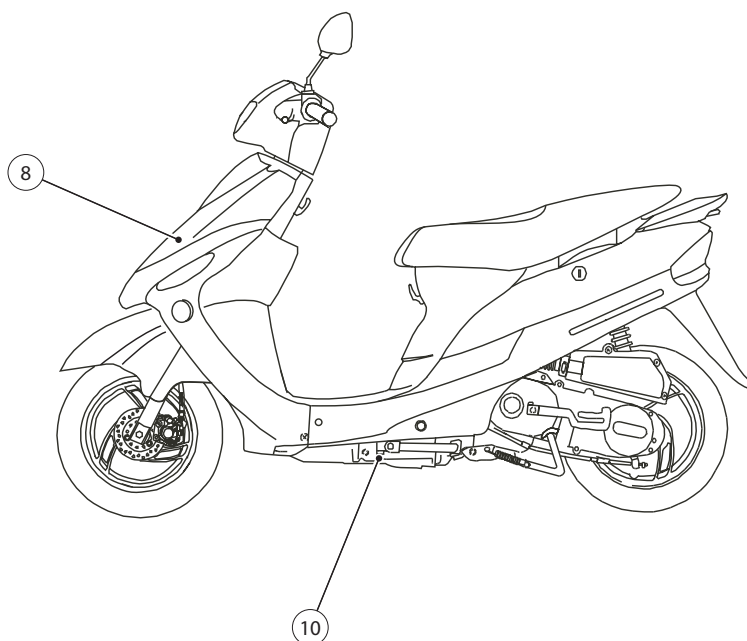
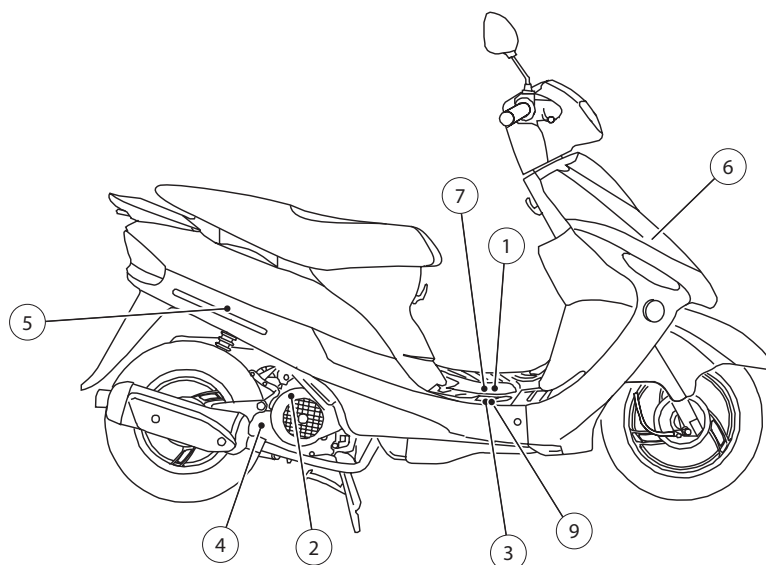
When starting the engine, the battery supplies (in addition to the current (A)) a current (B) to the starter motor in order to drive it.

Therefore, the battery must be sufficiently charged in order to supply both of these currents in order to start the engine.

When the engine is running, the magneto flywheel allows the electric circuit to be supplied with current (C) and the battery to be recharged with current (D).

At the same time, the magneto flywheel creates a current (E) which powers the vehicle's lighting circuit.

**LOCATION OF COMPONENTS**



1. Battery
2. Ignition sensor
3. Ignition unit
4. Oil level indicator
5. HT coil
6. Regulator
7. Starter motor relay
8. Horn
9. 10 A fuse
10. Kickstand switch

**SERVICE SCHEDULE AND COMMISSIONING**

Heavy duty servicing is for vehicles used under "harsh" conditions: door-to-door deliveries, intensive urban use (courier), short journeys with engine cold, dusty areas, ambient temperature over 30°C.

Service operations.	500 kms or 1 months.	Every 5000 kms or 12 months.	Every 10000 kms.	Every 20000 kms.
Heavy duty servicing.	500 kms.	Every 2500 kms.	Every 5000 kms.	Every 10000 kms.

**■ Check**

Throttle cable play.	C	C	C	C
Steering column play.	C	C	C	C
Operation of electrical equipment.	C	C	C	C
Condition of the front brake hydraulic control.	C	C	C	C
Condition of petrol pipes.	C	C	C	C
Condition of oil pipes.	C	C	C	C
Tyre pressures.	C	C	C	C
Tyre condition, pressure and wear.	C	C	C	C
Condition of the front suspension.	C	C	C	C
Condition of the rear suspension.	C	C	C	C
Brake fluid level.	C	C	C	C
Battery electrolyte level*.	C	C	C	C
Engine oil level.	C			
Tightness of nuts and bolts.	C	C	C	C

**■ Change**

Spark plug.		R	R	R
Inlet silencer/air filter.				R
Front brake pads #.		C	C	C
Rear brake linings #.		C	C	C
Drive pulley bearings and guides #.		C	C	C
Transmission belt ##.		R	R	R
Engine oil (+ clean strainer).	R	R	R	R
Brake fluid.		Once every 2 years		
Relay box.			R	R

**■ Check and lubricate**

Kick starter mechanism.			G	G
Drive pulley/Movable face.			G	G

**■ Test machine**

On road.	C	C	C	C
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C : Check

N : Clean

R : Change

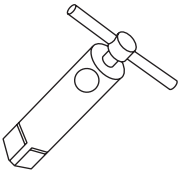
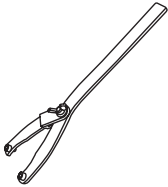
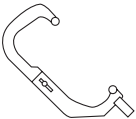
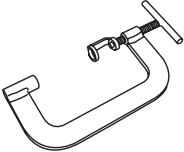
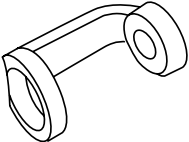
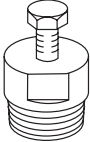
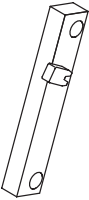
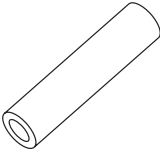
G : Check and lubricate

\* Depending on equipment

# Change if necessary

## Or once every 5 years

**SPECIAL TOOLS**

	Tool N°	Designation	Used with		Tool N°	Designation	Used with
	64765	Engine mount	755982		752237	Adjustable pin wrench	
	755982	Engine mount adapter	64765		754035	Valve lifter	758595
	758595	Valve spring lifter adapter	754035		750806	Flywheel puller	
	759467 (*)	Fixed flange locking tool			757990	Lip seal push tool	

(\*) New or modified tool