

**SWM**



**QUICK REFERENCE MANUAL  
GRAN MILANO**



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**SWM MOTORCYCLES S.R.L.** Thanks you for choosing a SWM and would like to remind you that to continually deliver top performance in full safety, your SWM motorbike requires regular maintenance by the After Sales Service of the authorised SWM dealer network. Our highly experienced technicians have worked to create a top-quality vehicle that will allow you to enjoy a safe ride over time. Nevertheless, we need your collaboration. This Quick Manual contains the basic instructions for proper use of the motorcycle. Carefully read the complete documentation, available in the "Use and Maintenance Manual" downloadable from the site **[www.swm-motorcycles.it](http://www.swm-motorcycles.it)** after registration, and have the routine and extraordinary maintenance as well as all the technical operations carried out by specialised personnel of the official SWM Dealer Network.

### Important Notice

Read this manual carefully and pay special attention to the notes preceded by the following warnings.



#### WARNING

**Indicates the possibility of severe personal injury or death if instructions are not followed.**



#### CAUTION

**Indicates the possibility of personal injury or vehicle damage if instructions are not followed.**



#### NOTE

It gives useful information.

## THE SCHEDULED MAINTENANCE PROGRAMME

**SWM MOTORCYCLES S.R.L.** has drawn up a scheduled maintenance programme and the pre-delivery operations to guarantee that your vehicle performs at the maximum levels of efficiency, and safety.

You will find the scheduled maintenance plan designed for your motorcycle in the Use and Maintenance Manual downloadable from the site [www.swm-motorcycles.it](http://www.swm-motorcycles.it) after registration. It is essential that you have your bike serviced at the stated intervals in order to maintain the vehicle's safety and reliability levels.

We remind you that, should your vehicle experience problems as a result of inadequate or incorrect servicing, the repair of the vehicle will not be covered by warranty. **SWM MOTORCYCLES S.R.L.** may not be held liable for possible injuries suffered by the user of the vehicle as a result of said breakdowns or mechanical failures. All the

maintenance Coupons, including the initial ones, are to be paid for, both for materials and for labour. On the

contrary, the predelivery operations, as set out in the maintenance plan are carried out at the Dealer's free of charge.

Any service on the vehicle, both in case of Guarantee Servicing and of any sort of repairs, settings, replacements or other, must be carried out at the approved SWM Dealers' workshops, according to the methods established by **SWM MOTORCYCLES S.R.L.**

Only the fiscal receipt (invoice or till receipt) that will be provided by the Dealer on completion of the scheduled maintenance work provides proof that the service has indeed been carried out.

## MAINTENANCE TABLE

SCHEDULE FOR PERIODIC MAINTENANCE ( km )				
1000	5000	10000	15000	20000

## USE AND MAINTENANCE MANUAL

This Quick Manual contains the basic instructions for proper use of the motorcycle. The complete documentation is contained in the Use and Maintenance Manual downloadable from the site [www.swm-motorcycles.it](http://www.swm-motorcycles.it) after registration.

## TECHNICAL DATA

### DIMENSION & WEIGHT

Overall length .....	2040mm
Overall width.....	790mm
Overall height .....	1130mm
Wheelbase .....	1410 mm
Saddle height .....	790 mm
Min. ground clearance.....	160 mm
Dry weight.....	176kg

### VEHICLE BODY

Frame type.....	Tubular diamond
Front suspension device.....	spring & hydraulic composite central damping
Rear suspension device.....	ad-justable spring & hydraulic composite central damping
Front Tire size.....	120/70 ZR17
Rear Tire size.....	160/60 ZR17
Front wheel pressure.....	250 kPa
Rear wheel pressure.....	290 kPa
Front brake.....	dual disc type, float disc Ø 296 mm. with hydraulic control and floating caliper
Rear brake.....	single disc type, fixed disc Ø 240mm with hydraulic control and floating caliper
Fuel grade.....	92#
Fuel tank capacity.....	15L

**ENGINE**

Mode	Inline twin cylinder, water-cooling 4 stroke
Bore	68mm
Stroke	68 mm
Displacement	246.83*2ml
Compression ratio	11.5:1
Max. power	35/8000kW/r/min
Max. torque	45/7000N·m/r/min
Valve clearance (cold)	IN: 0.10-0.15 ; EX: 0.20-0.25
Air filter	Oilpaper filter
Cooling method	Water-cooling
Lubrication method	Pressure / Splash
Engine, gearbox lubricating oil	MOTUL 10W/40
Oil replacement	2.3 l
Oil and oil filter replacement	2.5 l
Cooling circuit capacity	1.5 l
Engine oil filter element	Oilpaper filter

**DRIVING SYSTEM**

Clutch	Wet clutch multidisc
Clutch operating system	Manual mechanical
Variable speed gear	6-speed
constant mesh gear type	
Primary reduction ratio	1.500
1st gear	3.286
2nd gear	2.105
3rd gear	1.600
4th gear	1.300
5th gear	1.150
6th gear	1.043
Final reduction ratio	2.867



**ELECTRICAL SYSTEM**

Electric generator.....ermanent magnet DC magneto

Accumulator capacity.....12V/11.2Ah

Ignition type.....electronic, inductive discharge

Spark plug type....."NGK" CPR8EA-9

Spark plug gap.....0.6-0.8 mm

Ignition coil type.....electronic, inductive discharge

Fuel system.....Electronic injection feed


Front lamp.....12V/16W/16W

Turn lamp.....12V/1.7W

Stop / Rear-position lamp.....12V/3W

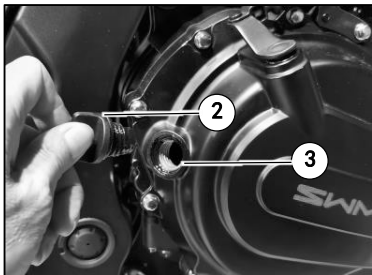
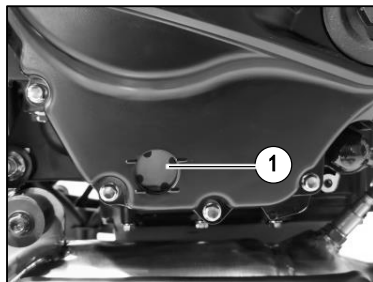
## PRELIMINARY CHECKS

### ENGINE-TRANSMISSION OIL LEVEL

 **NOTE**

Check the oil level when the engine has just been turned off and is still hot.

- Position the motorcycle on a flat surface in vertical position.
- Check the oil level through the inspection glass①.
- If the oil needs to be topped up, unscrew the plug② and pour the oil through the hole③ until reaching the proper level.



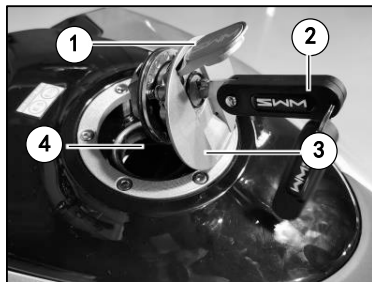
## FUEL LEVEL

Check the level in the tank, top up as needed.

### Proceed as follows:

Turn off the engine.

- Lift the lock protection tab①.
- Insert the key②and turn it clockwise to release the plug.
- Lift the plug③.
- Refuel through the filler neck④.
- Close the plug③again, following the removal procedure in reverse order, then remove the key②and lower the protection tab①.



## BRAKE FLUID LEVEL

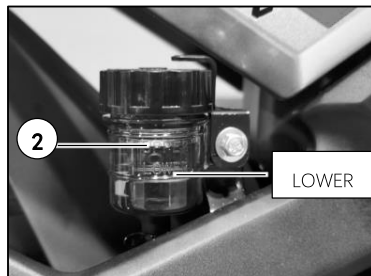
### Front brake

Master cylinder tank fluid level shall never drop below the minimum "LOWER" value indicated on the transparent tank①.



### Rear brake

Master cylinder tank fluid level shall never drop below the minimum "LOWER" value indicated on the transparent tank②.



## COOLANT LEVEL

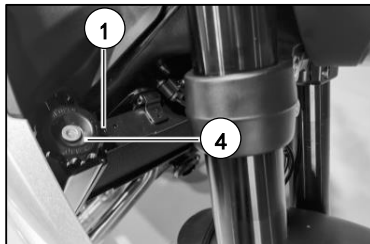
Check the level ① in the right radiator with engine cold and motorcycle in vertical position. The coolant must be 10 mm above the elements.

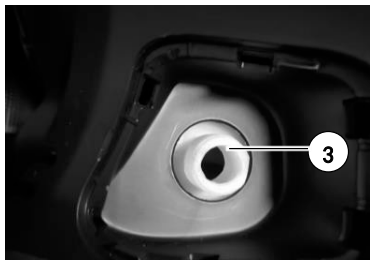
If the coolant needs to be topped up, unscrew the plug ② and pour the coolant through the hole ③ until reaching the proper level.

The radiator cap ④ features two locking positions: the first is used for preventive pressure relief in the cooling system.

### WARNING

Avoid removing radiator cap ④ when engine is hot, as coolant may spout out and cause scalding.





**! CAUTION**

With engine hot, do not remove the reservoir plug, risk of burns!

**! NOTE**

It may be difficult to eliminate the liquid from painted surfaces. If this is the case, wash with water.

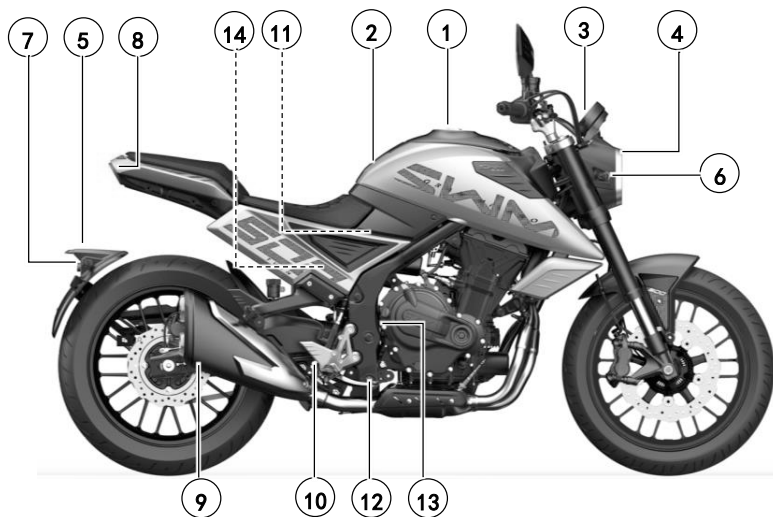
## ELECTRIC SYSTEM

Start the engine, as indicated in the "Instructions for using the motorcycle" section, and check that headlight and tail light, stop light, turning indicators, dashboard warning lights and horn are working properly.

## TYRE PRESSURE

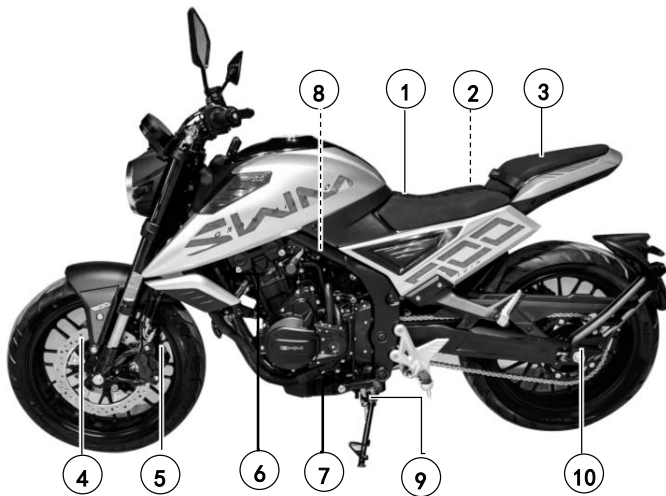
Check tyre pressure, that must correspond to the values in "Technical Data" section.

## CONTROL LOCATION

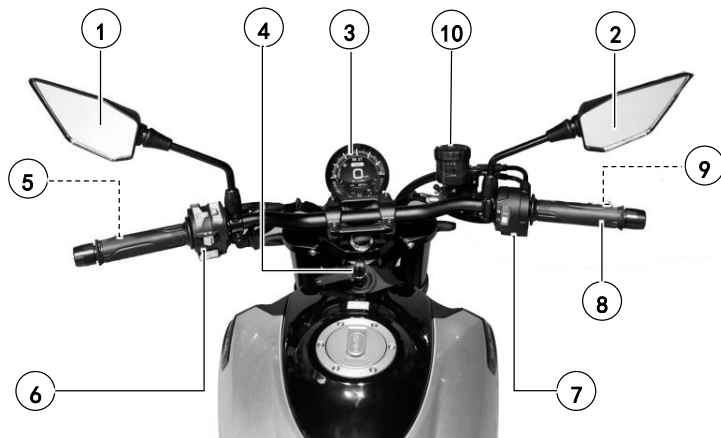


- 1) Fuel tank cap
- 2) Fuel tank
- 3) Instrument panel
- 4) Headlight
- 5) Plate lighting device
- 6) Front turning indicators
- 7) Rear turning indicators
- 8) Taillight
- 9) Exhaust muffler
- 10) Rear brake pump
- 11) Air filter assembly
- 12) Brake control pedal
- 13) Engine oil dipstick
- 14) ABS control unit.





- 1) Rider seat
- 2) Battery
- 3) Passenger seat
- 4) Front brake disc
- 5) Front brake caliper
- 6) Engine oil filter
- 7) Gear shift pedal
- 8) Throttle body
- 9) Side stand
- 10) Rear brake caliper



- 1) Left-hand rear-view mirror
- 2) Right-hand rear-view mirror
- 3) Instruments
- 4) Ignition/steering lock block
- 5) Clutch control lever
- 6) Left-hand switch
- 7) Right-hand switch
- 8) Throttle twist grip
- 9) Front brake control lever
- 10) Front brake fluid reservoir

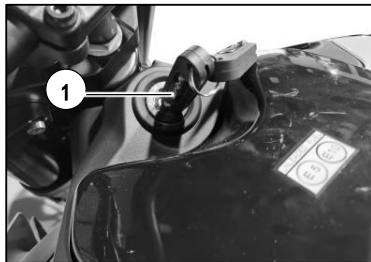
## INSTRUCTIONS FOR USING THE MOTORCYCL

### STARTING THE ENGINE

After getting on the motorcycle as described in the relative paragraph, operate as follows to start the engine:

- Place ignition key ① to  $\mathcal{Q}$  position (the buzz that you hear when you turn the key to  $\mathcal{Q}$  is caused by the fuel pump which puts the feeding system under pressure);
- Pull the clutch lever ②, lift the side stand, or shift gear pedal ③ to neutral, check that the button ④ is in position  $\mathcal{Q}$  and then press the start button ⑤.

When a cold engine has just been started, do not increase revs, to ensure an adequate oil warmup and circulation.



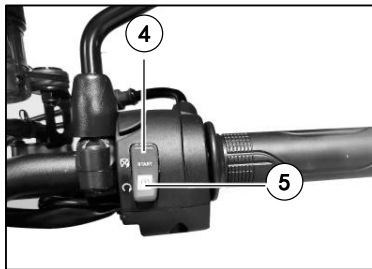
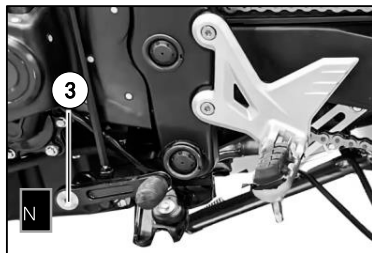
**⚠ WARNING**

Do not run the cold motor with a high number of revs.

**⚠ NOTE**

A safety switch is set on the clutch lever support. This switch allows you to **ONLY** start the engine with the gear-box idle, or with the gear engaged and the clutch lever pulled.

With the stand lowered, the bike can only be started with the gear in neutral.



## IGNITION SWITCH

The ignition switch ① has three positions:

- 🔑 Motorcycle start position (key not removable);
- 🔒 Key removal position;
- 🔒 Steering lock position (key removable).

**Key removal position "🔒"**

Turning the key to position🔒, the engine and the lights go off and you can remove the key from the ignition block.

**Start position"🔑"**

From the key removal position🔒, turn the key (1) clockwise to the start position🔑; the lights and the display will come and you can start the motorcycle.



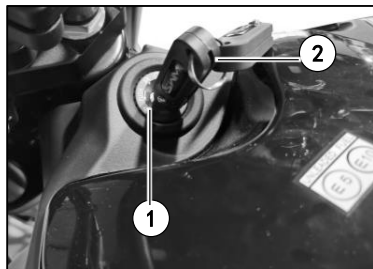
## STEERING LOCK

The motorcycle comes with a steering lock located on the ignition switch①.

### Lock the steering as follows:

- Turn the handlebar to the left.
- Insert key② in the ignition switch① set to  $\times$ .
- Press the key② in and turn it anticlockwise to position  $\uparrow$ .
- Remove the key②.

To unlock the steering lock, reverse the above procedure.





## RH HANDLEBAR SWITCH

The right-hand switch features the following controls:

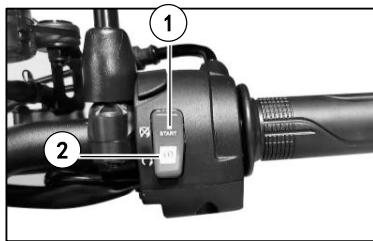
### 1) Engine start button

Pressing the button ① with the key in  $\odot$  position and the switch ② in  $\odot$  position, the engine starts.

### 2) Engine KILL SWITCH

Flicked to  $\otimes$  position, disables engine starting and running.




Flicked to  $\odot$  position, enables engine starting and running.



## LH HANDLEBAR SWITCH

The left-hand switch features the following controls:



### 1) Headlight

-  High beam flasher (self-cancelling).
-  High beam.
-  Low beam.

### 2) Hazard Light: (red light)

The Hazard Light and the Left/right turn signal light comes on when you push on the Warning light switch.

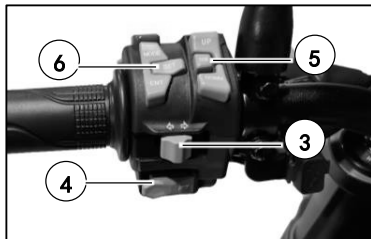
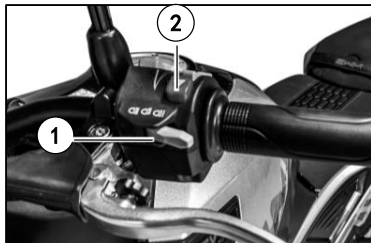
### 3) Turning indicators

-  Left-hand turning indicators (self-cancelling).
-  Right-hand turning indicators (self-cancelling).

To deactivate the turning indicators, press the control lever after it is returned to the center.

### 4) Warning horn.

## 5) TCS Indicator Light



## 6) Mode button

There're buttons: upkey, downkey and set.



### NOTE

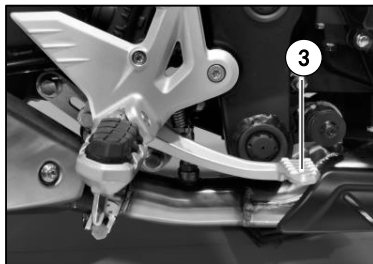
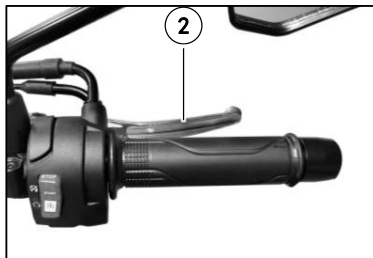
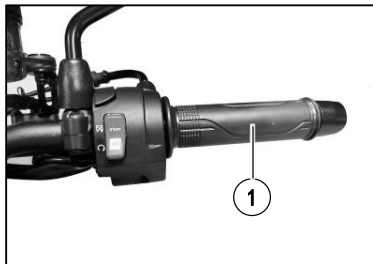
IMPORTANT IN CASE OF COLD START AT LOW TEMPERATURES, it is recommended to perform a brief warm-up at idling speed until there is a normal engine response to the throttle opening.

In this way the oil can reach all the points that need lubrication and the coolant reaches the necessary temperature for correct engine operation.

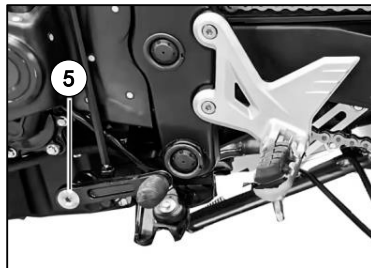
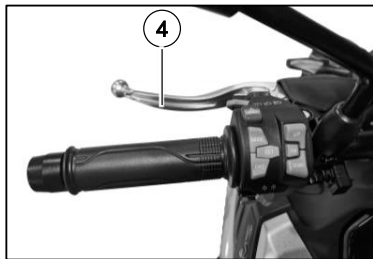
Avoid heating the engine for too long.

## STOPPING THE MOTORCYCLE AND THE ENGINE

- Fully close the throttle twist grip ① to decelerate the motorcycle.
- Apply both front ② and rear ③ brakes while downshifting (for sharp deceleration, operate in a decided manner on the brake lever and pedal).



- When stopped, pull the clutch lever④and shift gear lever⑤into the neutral position.
- Turn the ignition key⑥to the  $\times$  position (position for removing key).



## ENGINE EMERGENCY STOP

- Flick the red switch ⑦ to  $\times$  stop the engine and then flick it back to  $\circ$  position.

When the bike is off, place it on its side stand.



### WARNING

It can be useful to use the front brake independently or to use the combined braking depending on the situation. Be careful when using the front brake, especially on slippery surfaces. Improper use of the brakes can lead to a serious crash.

### WARNING

If the throttle locks in open position or another malfunction occurs that causes the engine to run uncontrolled, **IMMEDIATELY** press the engine stop button ⑦. While pressing the stop button, keep the motorcycle under control using the brakes and steering.

## SIDE STAND

A side stand<sup>①</sup> is supplied with every motorcycle.

### WARNING

The stand is designed to support the **WEIGHT** of the **MOTORCYCLE ONLY**. Do not sit astride the motorcycle using the stand for support as this could cause structural failure to the stand resulting in serious injury.

### WARNING

The motorcycle must **ONLY** be stood on its side stand **AFTER** the rider has dismounted.

### NOTE

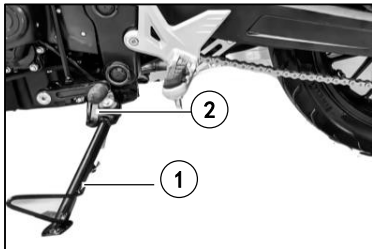
Lower the stand<sup>①</sup> with your right foot keeping the motorcycle balanced and once lowered, rest the motorcycle on it.

Once the motorbike has been brought from its rest position on the ground into vertical position, the driver has to raise the stand from the lowered to the raised position with his left foot.

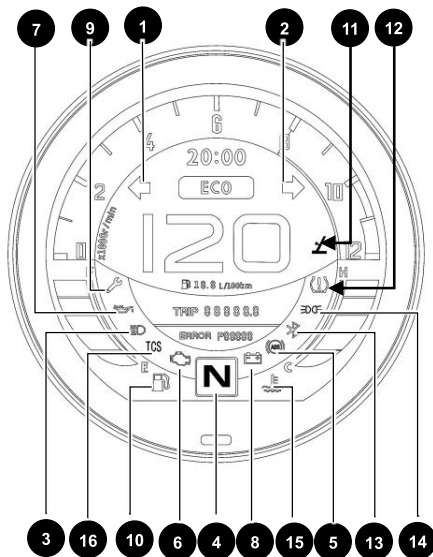
### WARNING

A safety sensor <sup>②</sup> is fitted on the motorbike, which allows starting it with the stand lowered and the gear in neutral.

If a gear is engaged with the stand lowered, the engine turns off.



## COMBINED INSTRUMENT




## WARNING AND SIGNAL LIGHTS

- ① Left turn indicator light
- ② Right turn indicator light
- ③ High-beam light.
- ④ Gear indicator light
- ⑤ ABS warning light
- ⑥ Engine failure warning light.
- ⑦ Engine Oil-Pressure
- ⑧ Battery Charge indicator
- ⑨ Maintenance indicator
- ⑩ Fuel reserve warning light.
- ⑪ Side stand indicator light
- ⑫ Tire pressure warning light
- ⑬ Bluetooth Indicator Light
- ⑭ Parking light indicator
- ⑮ Temperature Indicator Light
- ⑯ TCS Indicator Light




**Direction indicator lights**  

The light flashes when activating the left or right hand turning indicator using the control lever on the left-hand switch.

**High-beam light** 

The light comes on when activating the high-beam light using the control on the left-hand switch.


**Engine failure warning light** 

The Engine Failure Light comes on (amber light) when you turn on the ignition switch. Starting the engine, the engine failure light extinguishment. If the light comes on while the engine is running, it means that there is an engine or injection system failure.

- Stop and turn off the engine.
- Wait a few minutes and restart the engine; if the light comes on again, contact your nearest dealer to have the self-test system checked. MIL off after 3 healing driving cycles.

**Gear indicator light**

The gear position is displayed.

**Engine oil pressure warning light** 

The Engine Failure Light comes on (amber light) when you turn on the ignition switch. Starting the engine, the engine failure light extinguishment. This light comes on when the engine oil level is insufficient. It also alarms when the oil viscosity is low or the oil circuit is clogged.


When the warning light comes on, shut down the engine immediately and check for faults before restarting.

**Maintenance indicator light** 

When the mileage reaches the specified maintenance mileage, the indicator light will light up and turn off after resetting.

**Fuel level indicator** 


The fuel level display will indicate the fuel volume. When the pointer of the fuel level indicator rests near the last scale the fuel pump symbol will flash. Refuel with 95 unleaded gasoline as early as possible.

**Battery charge indicator** 

When the battery voltage is insufficient, the indicator light flashes.

**Side stand indicator light** 

Side stand lowered, this indicator will come on.

**Tire pressure warning light** 

The tire pressure alarm light will turn on, indicating that the tire pressure is insufficient. Please stop the engine immediately in this case, checking whether the tire is damaged, and replenish the tire pressure to the specified value.


**Temperature Indicator Light: (red light)** 

The symbol turns on when the engine is overheated.


- Stop the motorcycle, turn off the engine and check that the coolant level inside the tank is not below the MIN notch. In this case, wait for the engine to cool down, then slowly and carefully open the plug, top up with coolant, making sure that the level is between the MIN and MAX notches on the reservoir.

- Also visually check any coolant leaks.

- If the symbol lights up again upon the following start up.

**Bluetooth Indicator Light** 

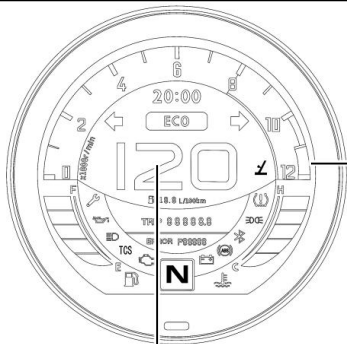
When this light comes on, activating the bluetooth.

**Parking light indicator** 

When the light switch is in the parking light position "P", this indicator is lighted.

## MULTIFUNCTION DISPLAY

Short press the start button on the right hand switch to power on the vehicle, and the instrument panel will begin to animated display.

**Evolution counter**

The rev. counter allows the driver to monitor the number of engine revs.

Maintain the engine speed within 10000 rpm.

**WARNING**

If you exceed 10000 rpm (red area), the engine may be damaged.

**Speed scale indication**

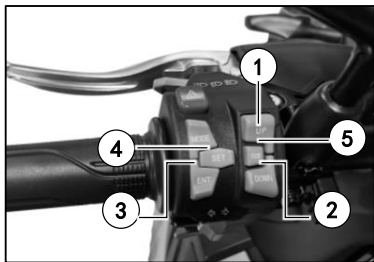
Speedometer digital display, display range (0-199 km/h). When the speed exceeds 199 km/h, the speed display value is 199 km/h; please do not drive the vehicle beyond the specified maximum speed of 165 km/h. shows riding speed in miles per hour(mph) and kilometer per hour(km/h).

### MODE BUTTON

There're four buttons:

- ①Key: KEY\_UP;
- ②Key: KEY\_DOWN;
- ③key: KEY\_CONFIRM;
- ④key: KEY\_BACK;

- Press KEY\_CONFIRM (vehicle speed<5km/h) for a long time to enter the menu. Press KEY\_UP or KEY\_DOWN to select the function. Press KEY\_CONFIRM to select the required function, and press KEY\_BACK to return to the main screen.
- When there is an incoming call or phone call, press KEY\_CONFIRM-> for a short time to answer the phone, and press KEY\_BACK-> for a short time to hang up.



### TCS INDICATOR LIGHT

In the main interface: TCS key: press the TCS key for more than 3 seconds to switch TCS on or TCS off; When TCS is turned on.



### MILEAGE DISPLAY

In the main interface, press KEY\_CONFIRM in a short time to switch the display of ODO and TRIP. In the display of TRIP, press the return key for a long time to clear the display of TRIP.



### UNDER THE MENU INTERFACE

- Under the menu level 1 interface: press KEY\_UP or KEY\_DOWN to select vehicle settings -> vehicle information -> exit. Press KEY\_CONFIRM to select the vehicle settings or vehicle information option to enter the secondary menu interface, please check.
- Select Exit to return to the main interface from the secondary interface of the menu "chapter description". Select KEY\_BACK to return to the main interface. Press and hold KEY\_BACK to disarm the maintenance alarm light.



- Under the secondary interface of the menu: 1) the primary interface of the menu "vehicle settings", press KEY\_CONFIRM in a short time to enter the secondary interface of menu for "vehicle settings"; Press KEY\_CONFIRM in a short time to switch the secondary menu selection, which is language selection -> change between meter and Inch -> minor mileage reset -> Bluetooth connection -> clock setting -> brightness setting -> tire pressure setting -> ABS setting.
- Press KEY\_UP in a short time to switch the secondary menu selection, which is language selection -> ABS setting -> tire pressure setting -> brightness setting -> clock setting -> Bluetooth connection -> minor mileage reset -> change between meter and Inch.
- Press KEY\_CONFIRM in a short time to enter the level 3 menu screen. Press KEY\_BACK to return to the Level 1 menu screen.



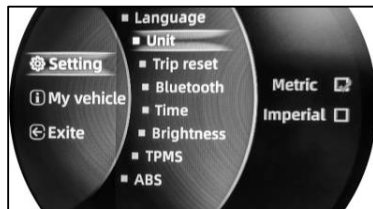
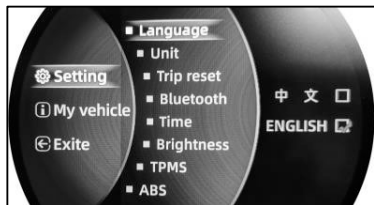
## VEHICLE SETTINGS

### LANGUAGE SELECTION

Menu level 3: menu level 3 options: language selection: press KEY\_UP or KEY\_DOWN to select Chinese or English; press KEY\_CONFIRM to select the language you need, and press KEY\_BACK to return to the previous level;

### UNIT SETTINGS

Change between meter and Inch: press KEY\_UP or KEY\_DOWN to select the metric system. Press KEY\_CONFIRM to select the metric system you need and press KEY\_BACK to return to the previous level;

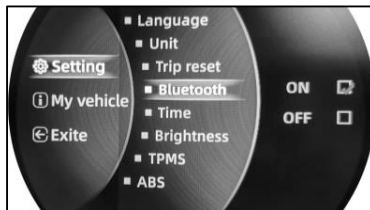
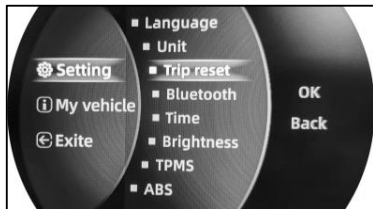


### MILEAGE RESET SETTINGS

Minor mileage reset: press KEY\_UP or KEY\_DOWN to confirm and return. Press KEY\_CONFIRM to select the mileage, and press KEY\_BACK to return to the previous level;

### BLUETOOTH SETTINGS

Bluetooth connection: press KEY\_UP or KEY\_DOWN to open or close. Press KEY\_CONFIRM to select, and press KEY\_BACK to return to the previous level;



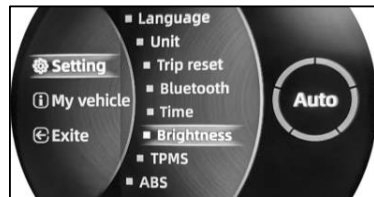
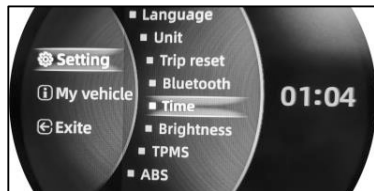


### TIME SETTINGS

Clock settings: press KEY\_UP or KEY\_DOWN to shift and press KEY\_CONFIRM to select. Press KEY\_UP or KEY\_DOWN to adjust the size of number, and then press KEY\_CONFIRM to confirm the number. Restore KEY\_UP or KEY\_DOWN to shift;

### BRIGHTNESS SETTINGS

Brightness setting: press KEY\_UP or KEY\_DOWN to adjust brightness percentage and select automatic adjustment. Press KEY\_BACK to return to the previous level;

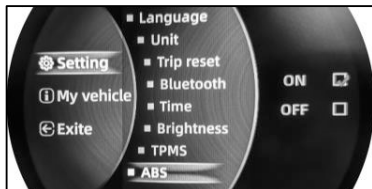
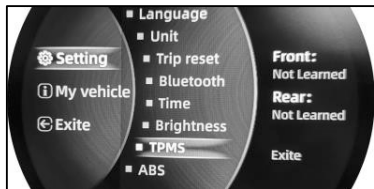


### TPMS SETTINGS

Tire pressure setting: press KEY\_UP or KEY\_DOWN to select front and rear wheels, and select corresponding studying states;

### ABS SETTINGS

ABS setting: KEY\_UP or KEY\_DOWN to open or close. Press KEY\_CONFIRM to select, and press KEY\_BACK to return to the previous level;

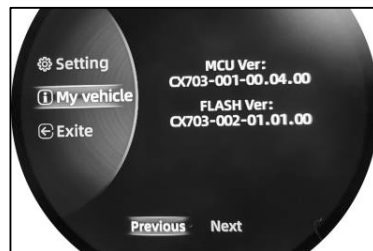


### VEHICLE INFORMATION

Press KEY\_CONFIRM in a short time on the level 1 menu screen "vehicle settings" to enter the level 2 menu screen "vehicle settings";

Press KEY\_UP or KEY\_DOWN in a short time for page turning or return. Press KEY\_CONFIRM in a short time for page turning or return. Press KEY\_BACK in a short time to return to the main screen.

- A. Then press KEY\_CONFIRM to enter the vehicle status information, which displays parameters such as average fuel consumption, driving time, remaining maintenance mileage, water temperature, voltage, etc. Short press KEY\_BACK to switch options (next page or return), and short press KEY\_CONFIRM to confirm;
- B. Display instrument version information, display software version and hardware version, press the KEY\_UP or KEY\_DOWN to switch options (previous page or next page), short press KEY\_CONFIRM to confirm;



**ERROR MESSAGES**

In the event of a fault, the relevant "ABS" error code and relevant "ECU" error code is indicated on the display①;  
Find the nearest SWM dealer to check the fault.



## ECU FAULT CODE

Index	Fault Path	DTC	Description of DTC	Active MIL
1	CDCDK	P0122	Throttle/Pedal Pos.Sensor Circ. Low Input	√
2		P0123	Throttle/Pedal Pos.Sensor Circ. High Input	√
3	CDCEV1	P0201	Cylinder 1- Injector Circuit open	√
4		P0261	Cylinder 1- Injector Circuit Low	√
5		P0262	Cylinder 1- Injector Circuit High	√
6	CDCEV2	P0202	Cylinder 2- Injector Circuit open	√
7		P0264	Cylinder 2- Injector Circuit Low	√
8		P0265	Cylinder 2- Injector Circuit High	√
9	CDCFRAU	P2177	System Too Lean bank1	√
10		P2178	System Too Rich bank1	√
11	CDCFRAU2	P2179	System Too Lean bank2	√
12		P2180	System Too Rich bank2	√
13	CDCHSV	P0053	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
14	CDCHSV2	P0059	O2 Sensor Heater Resistance(Bank② Sensor 2)	√

15	CDCHSVE	P0030	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
16	CDCDK	P0031	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
17		P0032	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
18	CDCHSVE2	P0050	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
19		P0051	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
20		P0052	O2 Sensor Heater Resistance(Bank② Sensor 2)	√
21	CDCKPE	P0627	Fuel Pump "A" Control Circuit /Open	√
22		P0628	Fuel Pump "A" Control Circuit Low	√
23		P0629	Fuel Pump "A" Control Circuit High	√
24	CDCLATP	P0133	O2 Sensor Circ.,Bank1-Sensor1 Slow Response	√
25	CDCLATP2	P0153	O2 Sensor Circ.,Bank1-Sensor2Slow Response	√
26	CDCLM	P0105	Manifold Abs.Pressure or Bar.Pressure Circuit	√
27		P0106	Manifold Abs.Pressure or Bar.Pressure Range/Performance	√
28	CDCHSV	P0107	Manifold Abs.Pressure or Bar.Pressure Low Input	√
29		P0108	Manifold Abs.Pressure or Bar.Pressure High Input	√

30	CDCLSV	P0130	O2 Sensor Circ.,Bank1-Sensor1 Malfunction	√
31		P0131	O2 Sensor Circ.,Bank1-Sensor1 Low Voltage	√
32		P0132	O2 Sensor Circ.,Bank1-Sensor1 High Voltage	√
33		P0134	O2 Sensor Circ.,Bank1-Sensor1 No Activity Detected	√
34	CDCLSV2	P0150	O2 Sensor Circ.,Bank1-Sensor2 Malfunction	√
35		P0151	O2 Sensor Circ.,Bank1-Sensor2 Low Voltage	√
36		P0152	O2 Sensor Circ.,Bank1-Sensor2 High Voltage	√
37		P0154	O2 Sensor Circ.,Bank1-Sensor2 No Activity Detected	√
38	CDCMD_00	P0301	Cyl.1 Misfire Detected	√ or Blink
39	CDCMD_01	P0302	Cyl.2 Misfire Detected	√ or Blink
40	CDCSTPE	P0511	Idle Air Control Circuit	√
41	CDCSVSE	P0650	Malfunction Indicator Lamp Control Circ.	×
42	CDCTA	P0111	Intake Air Temp.Circ. struck/Performance	√
43		P0112	Intake Air Temp.Circ. Low Input/range	√
44		P0113	Intake Air Temp.Circ. High Input	√

45	CDCTEVE	P0444	Canister purge valve Circuit open	√
46		P0458	Canister purge valve Circuit low	√
47		P0459	Canister purge valve Circuit high	√
48	CDCTM	P0116	Engine Coolant Temp.Circ. Range/Performance	√
49		P0117	Engine Coolant Temp.Circ. Low Input	√
50		P0118	Engine Coolant Temp.Circ. High Input	√
51		P0119	Engine Coolant Temperature Sensor 1 Circuit Intermittent	√
52	CDCTOX	U0198	Lost Communication With Telematic Control Module	×
53	CDCDASH	U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module	×
54	CDCCIF	U0073	Control Module Communication Bus Off	×



## ABS FAULT CODE

DTC	Malfunction	Possible Causes	Recommended Measures
C1101	ECU Voltage supply: high voltage	Poor connect of battery terminal.	Clean the terminal.
C1102	ECU Voltage supply: low voltage	Poor connect of battery terminal.	Clean the terminal.
C1200	Wheel-speed sensor, front: signal cable is short or open circuit; power supply cable is open circuit	Poor connect of sensor cable.	Check the cable connection.
C1201	Wheel-speed sensor, front: (signal failure) out of range, lost, noise, Intermittent	Dirt on the sensor probe or tone wheel.	Clean the probe and tone wheel.
C1202	Wheel-speed sensor, front: general error	Too much gap between the sensor probe with tone wheel.	Check the distance between the sensor probe with tone wheel.
C1206	Wheel-speed sensor, rear: signal cable is short or open circuit; power supply cable is open circuit	Poor connect of sensor cable.	Check the cable connection.
C1207	Wheel-speed sensor, rear: (signal failure) out of range, lost, noise, Intermittent	Dirt on the sensor probe or tone wheel.	Clean the probe and tone wheel.

C1208	Wheel-speed sensor, rear: general error	Too much gap between the sensor probe with tone wheel.	Check the distance between the sensor probe with tone wheel.
C1604	ECU error (hardware, Micro-controller error)	ABS Internal damage	Replace ABS
C2308	Valve fault, inlet valve front	ABS Internal damage	Replace ABS
C2312	Valve fault, outlet valve front	ABS Internal damage	Replace ABS
C2324	Valve fault, inlet valve rear	ABS Internal damage	Replace ABS
C2328	Valve fault, outlet valve rear	ABS Internal damage	Replace ABS
C2112	Valve relay error	ABS Internal damage	Replace ABS
C2402	Reflux pump fault	ABS Internal damage	Replace ABS

## ANTI-LOCK BRAKING SYSTEM -ABS

This model is equipped with an anti-lock braking system (ABS), which is designed to prevent the wheels' brakes from locking during sudden braking.

- The ABS system does not reduce the braking distance.
- Under certain circumstances, the ABS system can increase the braking distances.
- The ABS system does not engage at speeds of less than 10 km/h.
- The brake lever and pedal may suffer a slight back-kick when the brakes are engaged. This is normal.
- Always use the recommended pads and tyres to ensure the ABS system's proper functionality.

## FUSES

Fuse malfunction could cause problems to the motorcycle.

To access the fuses, proceed as follows:

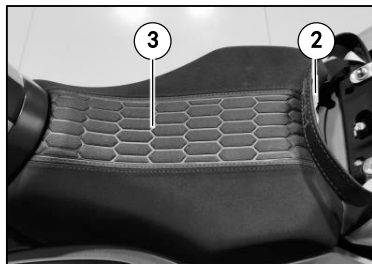
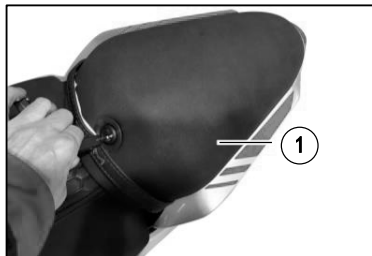
- To access the fuse box, turn the key lift the passenger seat ① and remove it.
- Unscrew the screw ② and remove the seat ③
- Release and raise the cover ④ of fuse box ⑤.

### ⚠ NOTE

Before operating on the fuses, set the ignition switch to OFF position in order to prevent short circuits.

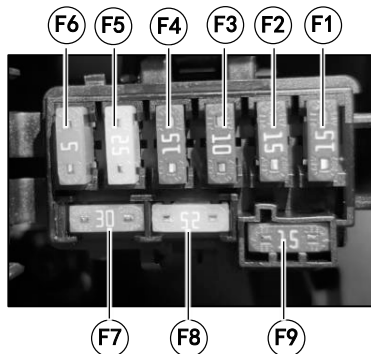
### ⚠ CAUTION

Do not use fuses with a different capacity from the original on.



FUSE TABLE

FUSE	AMPERE	PROTECTION
F1	15A	ECU
F2	15A	Main fuse
F3	10A	Headlight 、 Fan
F4	15A	ABS power supply
F5	25A	ABS motor
F6	5A	ABS control
F7	30A	Spare fuse.
F8	25A	Spare fuse.
F9	15A	Spare fuse.





## WARRANTY AND SERVICE BOOKLET

## WARRANTY CONTENT

Your new bike is guaranteed free from original defects in compliance with Directive **99/44/EC**.

The warranty consists in replacing or repairing the vehicle or components which may show, within the term of two years from the date of purchase, manufacturing defects or defects that existed before delivery to the owner, all free of charge.

The warranty is valid only if your vehicle has been subjected to the recommended maintenance programme and if all the service coupons have correctly been stamped. We remind you that the warranty does not apply in the event that the vehicle is driven in motorbike races, as this is a use that differs and is incompatible with the use for which your vehicle has been specifically designed.

Please remember that, as per law requirements, the warranty in question is provided directly by your SWM dealer, which you should always contact for any needs.

If your SWM Dealer could not fulfil your needs in a reasonable time or should it be more convenient to you, we invite you to contact any other SWM Dealer to have your motorcycle serviced.

## WARRANTY ACTIVATION

Your vehicle is covered by warranty against original defects from the time of delivery to you by your SWM Dealer.

When you receive your SWM, please sign together with the dealer the vehicle Delivery Certificate included in this manual.

## WHAT TO DO IN THE EVENT A REPAIR IS REQUIRED UNDER WARRANTY

In the unlikely event that your motorcycle requires an unscheduled repair and/or replacement as a result of an original defect during the warranty period, we advise you to contact the Dealer where you bought the motorcycle at once, explain the problem that has arisen and allow him to inspect the motorcycle.

We remind you to bring this Handbook with you, so that the Dealer may verify the delivery date of the vehicle.

Should any repairs be required due to an original or manufacturing defect, your Dealer will repair or replace the part free of charge, in the shortest possible time.



## WARRANTY CONDITIONS

### Exclusions

The warranty does not cover:

- Deterioration resulting from failure to comply with the periodic maintenance plan prescribed by SWM.
- Vehicles repaired using non-original spare parts.
- Vehicles that were not subjected to the periodic maintenance plan or for which the service coupons have not duly been stamped.
- Vehicles used for competitions/rental/off-road heavy duty.

Consumables and parts subject to wear:

The warranty does not cover wear and normal deterioration from use of the vehicle for the following parts:

- Spark plugs.
- Transmission chain.
- Brake pads and discs.

- Brake pads and discs.
- Clutch discs and bodies.
- Tyres.
- Bulbs and fuses.
- Transmission and drive cables.
- Tubes and all other rubber parts.
- Bearings.
- Air and fuel filters.
- Secondary transmission chain and gears.

### Lubricants

The warranty does not cover fluids: oil, grease, battery acid and coolant.

### Limitations

For all vehicles: the warranty on the BATTERY, SADDLE and PLASTIC PARTS is limited to 6 months.

- The warranty does not cover the maintenance and service costs nor the cost of the parts required for these operations.
- The warranty does not cover expenses resulting from filing a warranty claim: additional expenses for communications, any board and lodging nor other related expenses, such as compensation for lost time, commercial losses, replacement vehicle rental expenses, transport expenses.

### Important note for validity of the warranty:

- The warranty booklet must be carefully kept and presented to the official SWM dealer every time the vehicle is brought in for service.
- The service coupons must be filled in by the dealer that serviced the vehicle.
- The warranty may be transferred to subsequent owners until its expiry.
- In the event of change of the warranty booklet.
- The manufacturer reserves the right to make modifications and/or improvements to all its models without any obligation to make such modifications on vehicles already in circulation.



**DELIVERY CERTIFICATE**

Date	<input type="text"/>
VIN	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Model	<input type="text"/>
Engine no.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

The motorcycle has been made ready for delivery by performing **all** of the checks and pre-delivery actions as provided for by SWM MOTORCYCLES S.R.L., and fitted out with **all** the possible optional parts as requested by the Buyer.

The Buyer has been provided with this Warranty Booklet and the Use and Maintenance Manual and has received an explanation of the main drive system parts that the vehicle has been fitted with.

**Dealer's stamp and signature**

SWM MOTORCYCLES S.R.L. and its official sales organization state that the personal details of the purchaser, in accordance with the Law 675/1996 and later amendments, may take place without the Customer's consent, as implementation of obligations to provide Post-Sales Service.

**CUSTOMER**

Name:	<input type="text"/>
Surname:	<input type="text"/>
Address:	<input type="text"/>
Town or City:	<input type="text"/>
Postal Code:	<input type="text"/>
Telephone no:	<input type="text"/>

I hereby declare that I have today accepted delivery of the motorcycle as described above, equipped and fully compliant with my expectations. I also declare that I have received the herein Warranty Booklet and Use and Maintenance Manual. I hereby authorize SWM MOTORCYCLES S.R.L. to process my personal data for provision of Post-Sales Service, pursuant to the Law 675/1996 and later amendments.

**Customer's signature**

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**Copy for SWM MOTORCYCLES S.R.L.**

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Space reserved for storing fiscal documents proving that scheduled maintenance services have been carried out.

SERVICE \_\_\_\_\_ DATE \_\_\_\_\_ Km/MI \_\_\_\_\_ Customer's signature \_\_\_\_\_ Dealer's stamp \_\_\_\_\_

SERVICE \_\_\_\_\_ DATE \_\_\_\_\_ Km/MI \_\_\_\_\_ Customer's signature \_\_\_\_\_ Dealer's stamp \_\_\_\_\_

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SERVICE \_\_\_\_\_ DATE \_\_\_\_\_ Km/MI \_\_\_\_\_ Customer's signature \_\_\_\_\_ Dealer's stamp \_\_\_\_\_

**PIN or staple the Fiscal Receipt or the Fiscal Ticket proving the warranty services do have been performed.**







imported by SWM Motorcycles, assembled in CN

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ph. +390332769911, fax +390332769958, [info@swm-motorcycles.it](mailto:info@swm-motorcycles.it), [www.swm-motorcycles.it](http://www.swm-motorcycles.it)