# V-STROM 800 LDF

[DL800DERC/UC]

**OWNER'S MANUAL** 



This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when resold or otherwise transferred to a new owner or operator. The manual contains important safety information and instructions

which should be read carefully before operating the motorcycle.

### **FOREWORD**

Motorcycling is one of the most exhilarating sports and to ensure your riding enjoyment, you should become thoroughly familiar with the information presented in this Owner's Manual before riding the motorcycle.

The proper care and maintenance that your motorcycle requires is outlined in this manual. By following these instructions explicitly you will ensure a long trouble free operating life for your motorcycle. Your authorized Suzuki dealer has experienced technicians that are trained to provide your machine with the best possible service with the right tools and equipment.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or other changes, there may be some discrepancies between information in this manual and your motorcycle. Suzuki reserves the right to make changes at any time.

Please note that this manual applies to all specifications or all respective destinations and explains all equipment. Therefore, your model may have different standard features than shown in this manual.

#### **SUZUKI MOTOR CORPORATION**

### **IMPORTANT**

# BREAK-IN (RUNNING-IN) INFORMATION FOR YOUR MOTORCYCLE

The first 1600 km (1000 miles) are the most important in the life of your motorcycle. Proper break-in operation during this time will help ensure maximum life and performance from your new motorcycle. Suzuki parts are manufactured of high quality materials, and machined parts are finished to close tolerances. Proper break-in operation allows the machined surfaces to polish each other and mate smoothly.

Motorcycle reliability and performance depend on special care and restraint exercised during the break-in period. It is especially important that you avoid operating the engine in a manner which could expose the engine parts to excessive heat.

Please refer to the BREAK-IN (RUNNING-IN) section for specific break-in recommendations.

### A WARNING/A CAUTION/NOTICE/NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol A and the words WARNING, CAUTION, NOTICE and NOTE have special meanings. Pay particular attention to messages highlighted by these signal words:

## **A** WARNING

Indicates a potential hazard that could result in death or serious injury.

## **A** CAUTION

Indicates a potential hazard that could result in minor or moderate injury.

## NOTICE

Indicates a potential hazard that could result in vehicle or equipment damage.

NOTE: Indicates special information to make maintenance easier or instructions clearer.



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## **SAFETY INFORMATION**

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### SAFETY INFORMATION

### **SAFETY GUIDELINES**

#### MOST ACCIDENTS CAN BE AVOIDED

Please follow the basic precautions described in this chapter regarding daily use, and ensure that you ride carefully.

To prevent crashes, always pay the utmost attention when riding.

- Motorcycle crashes sometimes occur because other drivers do not notice you. Please be careful of the following when riding.
  - Be aware that crashes often occur when a car traveling towards a motorcycle turns left in front of the motorcycle.
  - Do not ride in other drivers' blind spots.
- Do not turn the handlebars swiftly or ride with one hand, as this may cause skidding or falls.

- To minimize injuries caused by falls or crashes, wear protective equipment such as helmets and gloves. For information on appropriate equipment and clothing, see "PROTECTIVE APPAREL" on page 1-4.
- When riding, grip the handlebars with both hands and place your feet on the footrests. Passengers should grip the rider's body firmly with both hands, or hold onto the seat strap or grab bar, as equipped, and place their feet on the rear footrests.
- Read and follow all the labels on the motorcycle. Make sure you understand all of the labels. Do not remove any labels from the motorcycle.
- The accessories you use with your motorcycle and the manner in which you load your gear onto the bike might create hazards. Aerodynamics, handling, balance, and cornering clearance can suffer, and the suspension and tires can be overloaded. Read the "ACCESSORY USE AND MOTORCYCLE LOADING" section on page 1-25.

### Routine checks and periodic inspections

To prevent crashes or breakdowns, be sure to carry out routine checks and periodic inspections.

If the motorcycle makes an unusual sound, smells, or leaks fluid, have it inspected by a Suzuki dealer. For information on routine checks and periodic inspections, see "INSPECTION AND MAINTENANCE" on page 3-2.

## **A** WARNING

Riding at excessive speeds increases your chances of losing control of the motorcycle, which can result in a crash.

Always ride at a speed that is proper for the terrain, visibility and operating conditions, and your skills and experience.

## **WARNING**

If you remove even one hand or foot from the motorcycle, you can reduce your ability to control the motorcycle. This could cause you to lose your balance and fall off the motorcycle. This could injure you or cause a crash.

Always keep both hands on the handlebars and both feet on the footrests of your motorcycle during operation.

#### PROTECTIVE APPAREL

### Description

Both rider and passenger should be sure to wear helmets, as well as clothing and protective equipment that affords a high level of protection. Refer to the following when obtaining this equipment.



To reduce the risk of injury:

- Wear a helmet, eye protection, and protective clothing.
- Read owner's manual carefully.

#### Helmet

- Be sure to wear a helmet and tighten the strap firmly. Choose a helmet that fits your head snugly but does not exert excessive pressure.
- Be sure to wear a helmet shield or goggles. These items protect the field of view from the wind, and also protect the eyes against airborne insects, dust, and small stones thrown up by vehicles driving ahead of you.

## **A WARNING**

If you don't wear a helmet, you have an increased risk of death or severe injury in a crash. If you wear a helmet that doesn't fit properly or is not securely strapped on, the helmet may not provide the protection for which it was designed.

The rider and passenger should be sure to wear a helmet that fits properly and is securely strapped on.

### (Thailand)

อาจถึงตายหรือ พิการ หากไม่สวม หมวกนิรภัย และไม่ ควรให้เด็กที่เท้ายังไม่ ถึงที่วางเท้าโดยสาร

#### Riding gear

- Wear protective equipment and clothing that affords a high level of protection.
   Wear bright, eye-catching long-sleeved uppers and full-length trousers that expose a minimum of skin. This will reduce the impact of unexpected events on the body. Loose, fancy clothing can be uncomfortable and unsafe when riding your motorcycle. Choose good quality motorcycle riding apparel when riding your motorcycle.
- Be sure to wear gloves. Gloves made of friction-resistant leather are suitable.
- Wear footwear that is easy to operate the motorcycle in, and which covers your ankles.
- When necessary, wear jackets and trousers fitted with protectors.

## **A WARNING**

If the person in the rear seat wears a long jacket or coat, they may obscure the tail light or turn signal light. This is dangerous as following vehicles may not be aware of you.

People riding in the rear seat should avoid wearing long jackets or coats if possible. If wearing such garments, place the tails of the garment under the buttocks so that they do not obscure the tail light or turn signal light.

### Gear of a passenger

A passenger needs the same protection that you do, including a helmet and proper clothing. The passenger should not wear long shoe laces or loose pants that could get caught in the wheel or the chain.

# SPECIAL SITUATIONS REQUIRE SPECIAL CARE

### Windy day

When riding in a strong crosswind, which can occur at the entrance to a tunnel, on a bridge, or when passing or being passed by large trucks, the motorcycle may be blown by the crosswind.

Control your speed, and grip the handlebars firmly when riding.

## **A WARNING**

Sudden side winds, which can occur when being passed by larger vehicles, at tunnel exits or in hilly areas, can cause you to lose control of the motorcycle.

Reduce your speed and be alert to the possibility of sudden side winds.

### Rainy day, Snowy day

 When the road surface is wet, loose, or rough, you should brake with care. Braking distances increase on a rainy day. Stay off the painted surface marks, manhole covers, and greasy-appearing areas, as they can be especially slippery. Use extra caution at railway crossings and on metal gratings and bridges. When it starts to rain, any oil or grease on the road rises to the surface of the water. Pull over and wait a few minutes until this oil film is washed away before riding. Whenever in doubt about road conditions, slow down!  Slow down before entering corners. In these situations, the traction available between your tires and the road surface is limited. When you're leaned over in a corner, avoid braking. Straighten up before braking.

NOTE: After the motorcycle has been washed or when it has traveled through puddles, the brakes may grip poorly. If the brakes grip poorly, travel at low speed while paying sufficient attention to the front and rear of the motorcycle, operating the brakes lightly until they grip firmly.

## **WARNING**

Over braking when traction is limited will cause your tires to skid, possibly resulting in loss of directional control or causing you and your motorcycle to fall over.

Brake carefully when traction is limited.

#### Flooded road

Do not ride your motorcycle on flooded roads.

If you do ride your motorcycle on a flooded road, go slowly checking braking operation. After riding on a flooded road, ask your Suzuki dealer to check for the following:

- Braking efficiency
- Wet connectors, wiring and water in the battery box
- Poor lubrication for bearings etc.
- Level and appearance of engine oil (if oil is whitish, there is water into the oil and an oil change is required)

### **NOTICE**

Riding the motorcycle on a flooded road can cause the engine to stop running, and can cause failure of electric parts, drive belt slipping and engine damage.

Do not ride your motorcycle on flooded roads.

#### **KNOW YOUR LIMITS**

Always ride within the boundaries of your own skills. Knowing these limits and staying within them will help you avoid crashes.

A major cause of crashes involving only a motorcycle (and no other vehicles) is going too fast through a turn. Before entering a turn, select an appropriately low cornering speed and appropriate cornering angle.

Even on straight roads, ride at a speed that is appropriate for the traffic, visibility and road conditions, your motorcycle, and your experience.

Riding a motorcycle safely requires that your mental and physical skills are fully part of the experience. You should not attempt to operate a motor vehicle, especially one with two wheels, if you are tired or under the influence of alcohol or other drugs. Alcohol, illegal drugs, and even some prescription and over-the-counter drugs can cause drowsiness, loss of coordination, loss of balance, and especially the loss of good judgment. If you are tired or under the influence of alcohol or other drugs, PLEASE DO NOT RIDE your motorcycle.

#### PRACTICE AWAY FROM TRAFFIC

Your riding skill and your mechanical knowledge form the foundation for safe riding practices. We suggest that you practice riding your motorcycle in a non-traffic situation until you are thoroughly familiar with your machine and its controls.

#### **CARRYING A PASSENGER**

This motorcycle has a capacity of two people. Do not attempt to ride while carrying more than one passenger. Attempting to do so is very dangerous.

### How to carry a passenger

Carrying a passenger, when done correctly, is a great way to share the joy of motorcycling. You will have to alter your riding style somewhat since the extra weight of a passenger will affect handling and braking.

You may also need to adjust tire pressures and suspension; please refer to the Tire Pressure and Loading section and the Suspension section for more details.

- TIRE PRESSURE AND LOADING: ( 3-59)
- SUSPENSION ADJUSTMENT: ( 2-111)
- LOADING LIMIT: ( 1-27)

Before you invite someone to be a passenger on your motorcycle, you need to be thoroughly familiar with motorcycle operation.

Ensure that passengers understand the following before they ride with you.

- The passenger should always hold onto your waist or hips, or onto the seat strap or grab bar, as equipped.
- Ask your passenger not to make any sudden movements. When you lean going around a corner, the passenger should lean with you.
- The passenger should always keep his or her feet on the footrests, even when you are stopped at a light. To help prevent burn injuries, warn your passenger not to contact the exhaust pipe or muffler when mounting or dismounting your motorcycle.

#### **ABOUT CARBON MONOXIDE**

To prevent carbon monoxide poisoning, start the engine in a well-ventilated location.

Contained in exhaust gas, carbon monoxide is a colorless odorless gas, and thus is not noticed easily.

## **A WARNING**

Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

#### **BE STREET SMART**

Always heed speed limits, local laws, and the basic rules of the road. Set a good example for others by demonstrating a courteous attitude and a responsible riding style.

#### CONCLUSION

To avoid crashes, caution and judgment appropriate to the environment is required. In addition to the state of the traffic, the road, and the weather, the state of the motorcycle also changes. Additionally, the movement of other vehicles is difficult to predict, so always be attentive.

Circumstances beyond your control could lead to a crash. You need to prepare for the unexpected by wearing a helmet and other protective gear, and learning emergency braking and swerving techniques to minimize the damage to you and your machine.

### **RIDING PRECAUTIONS**

break-in procedures.

#### **BREAK-IN**

### Description

The first 1600 km (1000 miles) is the most important in the life of your motorcycle. Proper operation during this break-in period will help assure maximum life and performance from your new motorcycle. During the break-in period, avoid needless idling, sudden acceleration or deceleration, abrupt steering changes, or sudden braking. The following guidelines explain proper

# Maximum Engine Speed Recommendation

The table below shows the maximum engine speed recommendation during the break-in period.

Initial	800 km (500 miles)	Below 4500 r/min
Up to	1600 km (1000 miles)	Below 7000 r/min
Over	1600 km (1000 miles)	Below Red zone

### Vary the engine speed

Vary the engine speed during the break-in period. This allows the parts to "load" (aiding the mating process) and then "unload" (allowing the parts to cool). Although it is essential to place some stress on the engine components during break-in, you must be careful not to load the engine too much.

### Breaking in the new tires

New tires need proper break-in to assure maximum performance, just as the engine does. Wear- in the tread surface by gradually increasing your cornering lean angles over the first 160 km (100 miles) before attempting maximum performance. Avoid hard acceleration, hard cornering, and hard braking for the first 160 km (100 miles).

## **A WARNING**

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

Use extra care when riding on new tires. Perform proper break-in of the tires as described in this section and avoid hard acceleration, hard cornering, and hard braking for the first 160 km (100 miles).

# Observe Your Initial and Most Critical Service

The initial service (break-in maintenance) is the most important service your motorcycle will receive. During break-in operation, all of the engine components will have mated together and seated. Maintenance required as part of the initial service includes correction of all adjustments, tightening of all fasteners and replacement of dirty oil. Timely performance of this service will help make sure you get the best service life and performance from the engine.

NOTE: The 1000 km (600 miles) service should be performed as outlined in the INSPECTION AND MAINTENANCE section of this Owner's Manual. Pay particular attention to the CAUTION and WARNING messages in that section.

#### **ON HILLS**

### Riding on a slope

- When climbing steep hills, the motorcycle may begin to slow down and show lack of power. At this point you should shift to a lower gear so that the engine will again be operating in its normal power range. Shift rapidly to prevent the motorcycle from losing momentum.
- When descending a long, steep slope, use the engine compression to assist the brakes by shifting to a lower gear. Continuous brake application can overheat the brakes and reduce their effectiveness.
- Be careful not to allow the engine to overrev when descending a slope.

## **A** WARNING

If you use the brakes continuously on long downhill roads, the brakes may overheat, reducing their effectiveness.

Use engine braking on long downhill roads and avoid using the brakes continuously.

### **NOTICE**

Holding the motorcycle stopped with throttle and clutch lever operation on inclines can damage the motorcycle's clutch.

Use the brakes when stopping the motorcycle on inclines.

#### **PARKING**

### How to park

To prevent theft, be sure to lock the handle-bars and remove the key when leaving the motorcycle. See "IGNITION SWITCH" on page 2-79.

- Park the motorcycle in a location where it will not interfere with traffic.
- Do not park illegally.
- Do not touch the exhaust pipe, muffler or the engine when the engine is running, or for some time after it has stopped.
- Park the motorcycle in a flat location, and turn the handlebars fully to the left.
   Avoid parking the motorcycle with the handlebars turned to the right.
- Park the motorcycle in a location where other people will not touch the exhaust pipe, muffler or the engine.
- When parking the motorcycle on an unstable surface such as an incline, on gravel, on an uneven surface, or on soft ground is unavoidable, be careful when leaning or moving it.

## **A** WARNING

The catalytic converter installed in the muffler heats up to a very high temperature, and may cause fires if placed in close proximity to flammable material when the motorcycle is parked.

When parking, check that there is no flammable material such as dry grass, lumber, paper, or oil in the vicinity.

## **A** CAUTION

Hot exhaust pipes and mufflers can cause severe burns. The exhaust pipe or muffler will be hot enough to cause burns for some time after stopping the engine.

Park the motorcycle where pedestrians or children are not likely to touch the exhaust pipe or muffler.

#### NOTE:

- If the motorcycle is to be parked on the side stand on a slight slope, the front end of the motorcycle should face "up" the incline to avoid rolling forward off the side stand. You may leave the motorcycle in 1st gear to help prevent it from rolling off the side stand. Shift to neutral before starting the engine.
- If an optional anti-theft lock such as a Ushape lock, brake disc lock or chain is used to avoid theft, be sure to remove the anti-theft lock before moving the motorcycle.

#### WHEN PUSHING THE MOTORCYCLE

Turn OFF the ignition switch when pushing the motorcycle.

### **ABOUT THE BRAKES**

#### WHAT IS ABS?

ABS is a device that controls braking during riding to prevent the wheels from locking up.

Braking is performed using the brake lever and brake pedal in the same manner as on a motorcycle without ABS.

ABS controls the brake pressure electronically. This system monitors the rotational speed of the wheels and operates to prevent wheel lock-up by reducing brake pressure when wheel lock-up is detected.

No special braking operation is required, as the ABS operates continuously except at low speeds below 8 km/h (5 mph) and when the battery has run down. The brake lever and brake pedal vibrate gently when the ABS activates to prevent wheel lock-up when the brakes are applied. This is not an abnormality. Continue to apply the brakes.

The braking distance with ABS may be longer than that of a motorcycle without ABS depending on misjudgment, incorrect operation, and road surface and weather conditions. Do not become overly reliant on the ABS.

Changing the tire size affects the rotational speed of the wheels, so the ABS may not function properly. Be sure to use tires of the specified size. Refer to "TIRES" on page 3-56.

For this motorcycle, you can change the ABS control intervention level. You can select from the modes listed below.

- Mode-1
- Mode-2
- Rear-OFF

For details about switching the ABS mode, see "ABS MODE" on page 2-51.

## **A WARNING**

Failure to use good judgment with ABS can be hazardous. ABS cannot make up for bad road conditions, bad judgement, or improper operation of the brakes.

Remember that ABS will not compensate for poor judgment, incorrect braking techniques, or the need to slow down over bad roads or in poor weather conditions. Use good judgment and do not ride faster than conditions will safely allow.

NOTE: In some situations, a motorcycle with ABS may require a longer stopping distance to stop on loose or uneven surfaces than an equivalent motorcycle without ABS. Furthermore, as with a motorcycle without ABS, the slipperier the surface, the longer the braking distance.

#### **HOW TO USE THE BRAKE SYSTEM**

- Twist the throttle grip away from yourself to close the throttle completely.
- 2. Apply the front and rear brakes evenly and at the same time.
- 3. Downshift through the gears as road speed decreases.
- Select neutral with the clutch lever squeezed toward the grip (disengaged position) when the motorcycle is almost completely stopped.

## **A WARNING**

Inexperienced riders tend to underuse the front brake. This can cause excessive stopping distance and lead to a crash. Using only the front or rear brake can cause skidding and loss of control.

Apply both brakes evenly and at the same time.

## **A** WARNING

Hard braking on wet, loose, rough, or other slippery surfaces can cause wheel skid and loss of control.

Brake lightly and with care on slippery or irregular surfaces.

## **WARNING**

Sudden braking and sudden downshifting can impair riding stability and cause side-slips and tumbles.

Avoid unnecessary sudden braking and sudden downshift. Extreme caution is required when riding on slippery or poorly maintained roads while tilting the motorcycle to the side.

## **WARNING**

Following another vehicle too closely can lead to a collision. As vehicle speeds increase, stopping distance increases progressively.

Always maintain a safe stopping distance between you and the vehicle in front of you.

## **A WARNING**

Hard braking while turning may cause wheel skid, loss of control and/or capsize.

Brake before you begin to turn.

## **A WARNING**

Braking while turning the motorcycle can be hazardous, whether or not your motorcycle is equipped with ABS. ABS can not control wheel side-slips that occur when you brake hard while turning and the side-slips could cause loss of control.

Slow down sufficiently in a straight line before you begin to turn and avoid other than slight braking while turning.

#### **FUEL GUIDELINES**

Use premium unleaded gasoline with an octane rating of 95 or higher (Research method). Using unleaded premium gasoline extends the lifespan of spark plugs and exhaust system parts.

### (Canada, Brazil)

Your motorcycle requires premium unleaded gasoline with a minimum pump octane rating of 90 ((R+M)/2 method). In some areas, the only fuels that are available are oxygenated fuels.

Fuel used: Unleaded premium gasoline Fuel tank capacity: 20.0 L (5.3/4.4 US/ Imp. gal)

#### NOTE:

- The engine of this model is designed to use premium unleaded gasoline.
- If the engine develops some trouble such as lack of acceleration or insufficient power, the cause may be the fuel. In such case, try changing to a different gas station. If the situation is not improved by changing, consult your Suzuki dealer.

# Oxygenated fuel recommendation (Canada, EU, UK, Brazil)

Oxygenated fuels which meet the minimum octane requirement and the requirements described below may be used in your motorcycle without jeopardizing the New Vehicle Limited Warranty or the Emission Control System Warranty.

NOTE: Oxygenated fuels are fuels which contain oxygen-carrying additives such as alcohol.

#### Gasoline/Ethanol blends

Blends of unleaded gasoline and ethanol (grain alcohol), also known as "GASOHOL", are commercially available in some areas. Blends of this type may be used in your motorcycle if they are no more than 10% ethanol (Canada, EU, UK, Thailand) or 27% ethanol (Brazil). Make sure this gasoline-ethanol blend has octane ratings no lower than those recommended for gasoline.

Use the recommended gasoline which conforms to the following labels. (EU, UK)



#### NOTE:

- To help minimize air pollution, Suzuki recommends that you use oxygenated fuels.
- Be sure that any oxygenated fuel you use has recommended octane ratings.
- If you are not satisfied with the drivability of your motorcycle when you are using an oxygenated fuel, or if engine pinging is experienced, substitute another brand as there are differences between brands.

### NOTICE

Spilled gasoline containing alcohol can damage the painted surfaces of your motorcycle.

Be careful not to spill any fuel when filling the fuel tank. Wipe spilled gasoline up immediately.

## **NOTICE**

Do not use leaded gasoline.

Use of leaded gasoline causes the catalytic converter to malfunction.

# ACCESSORY USE AND MOTORCYCLE LOADING

#### **ACCESSORIES**

#### How to choose

Installing improper accessories may cause an accident. Suzuki genuine accessories are recommended for safe riding. Suzuki dealer can install accessories suitable for your motorcycle. Consult your Suzuki dealer when installing accessories.

Additionally, when attaching accessories, ensure that they are within the load capacity. For information on the load capacity, see "LOADING" on page 1-27.

## **A WARNING**

Improper installation of accessories or modification of the motorcycle may cause changes in handling which could lead to a crash.

- Never use improper accessories, and make sure that any accessories that are used are properly installed.
- Install and use them according to their instructions.
- If you have any questions, contact your Suzuki dealer.

### Accessory installation guidelines

- Install aerodynamic-affecting accessories, such as a fairing, windshield, backrests, saddlebags, and travel trunks, as low as possible, and as close to the motorcycle and as near the center of gravity as is feasible. Check that the mounting brackets and other attachment hardware are rigidly mounted.
- Inspect for proper ground clearance and bank angle. Inspect that the accessory does not interfere with the operation of the suspension, steering or other control operations.
- Accessories fitted to the handlebars or the front fork area can create serious stability problems. This extra weight will cause the motorcycle to be less responsive to your steering control. The weight may also cause oscillations in the front end and lead to instability problems. Accessories added to the handlebars or front fork of the machine should be as light as possible and kept to a minimum.

- Do not pull a trailer or sidecar. This motorcycle is not designed to pull a trailer or sidecar.
- Some accessories may make it difficult to achieve the correct riding position, or cause usability to deteriorate. Check that you can attain the correct riding position.
- Select only electrical accessories which do not exceed the motorcycle's electrical system capacity. Severe overloads may damage the wiring harness or create hazardous situations. Use genuine Suzuki accessories.

#### LOADING

### **Loading limit**

- Loading the motorcycle will make the handling and safety characteristics of the motorcycle different than when it is not loaded.
- Never exceed the G.V.W.R. (Gross Vehicle Weight Rating) of this motorcycle.
  The G.V.W.R. is the maximum combined weight of the machine, accessories, payload, rider and passenger. When selecting your accessories, keep in mind the weight of the rider as well as the weight of the accessories. The additional weight of the accessories may not only create an unsafe riding condition but may also affect the riding stability.

G.V.W.R.: 430 kg (948 lbs) at the tire pressure (cold)

Front: 225 kPa (2.25 kgf/cm², 33 psi)

Rear: 280 kPa (2.80 kgf/cm², 41 psi)

## **A** WARNING

Overloading or improper loading can cause loss of motorcycle control and a crash.

Follow loading limits and loading guidelines in this manual.

#### Loading guidelines

This motorcycle is primarily intended to carry small items when you are not riding with a passenger. Follow the loading guidelines below:

- When loading luggage onto the rear seat, fix it firmly in place with rubber straps, etc. Do not overload with luggage.
- Balance the load between the left and right side of the motorcycle and fasten it securely.
- Keep cargo weight low and as close to the center of the motorcycle as possible.
- Adjust suspension setting as necessary.
- Do not attach large or heavy items to the handlebars, front forks or rear fender.
- Do not attach luggage compartments, load boxes, or other items that protrude from the tail end outside the body of the motorcycle.

- Check that both tires are properly inflated to the specified tire pressure for your loading conditions. Refer to "TIRE PRESSURE AND LOADING" on page 3-59.
- Improperly loading your motorcycle can reduce your ability to balance and steer the motorcycle. Ride more slowly when carrying luggage or with accessories attached.

# **A WARNING**

If luggage touches a hot exhaust pipe, muffler or engine, it may cause the luggage or motorcycle to catch fire.

When loading luggage on the motorcycle, do not allow it to touch hot parts.

# **A WARNING**

Placing objects in the space behind the fairing can interfere with steering and can cause loss of control.

Do not carry any objects in the space behind the fairing.

### **MODIFICATION**

Do not make improper modifications.

Modifications related to the structure or functioning of this motorcycle may impair its maneuverability, increase exhaust noise, or even reduce the life of the vehicle. In addition to offend against the law, such modifications may be a nuisance to others.

Modifications to the motorcycle are not covered by warranty.

- This motorcycle complies with emission regulations. It is equipped with a catalytic converter that cleans exhaust gases. Altering the muffler may make this motorcycle non-compliant with emission regulations. Consult a Suzuki dealer when replacing the muffler.
- Mufflers are engraved with a "Suzuki" mark to indicate that they are genuine Suzuki parts.
- Do not self-tune the engine or remove parts. Consult a Suzuki dealer regarding engine tuning.
- We recommend that you use genuine Suzuki parts and specified/recommended oils and lubricants for your motorcycle. Genuine parts are thoroughly inspected and are made to be suitable for Suzuki motorcycles.
- Comply with loading limits when attaching luggage or accessories to the motorcycle.



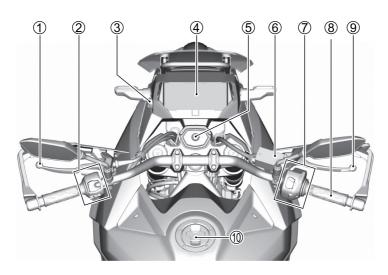
# **CONTROLS, EQUIPMENT AND ADJUSTMENTS**

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# CONTROLS, EQUIPMENT AND ADJUSTMENTS

# NAMES OF PARTS AND LAYOUT DIAGRAM (PICTURE INDEX) LOCATION OF PARTS

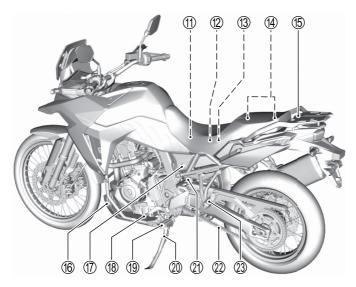
## **Around the Handle**



### **Around the Handle**

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## **Left Side View**

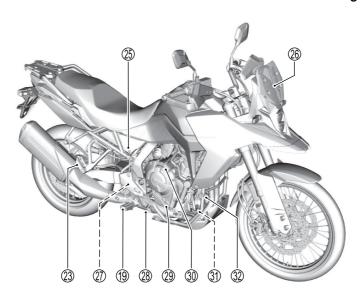




## **Left Side View**

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- ⊕ Tools (☐ 3-12)
- (2-120)
- (f) Engine coolant reservoir ( 3-36)
- ① Seat lock ( 2-110)
- (18) Gearshift lever (2-100) (2-3-54)
- (19) Footrests
- ② Side stand ( 2-96)
- ② Air cleaner drain plug ( 3-24)
- ② Drive chain ( 3-41)
- ② Passenger footrests
- ② Center stand (Brazil) ( 2-97)

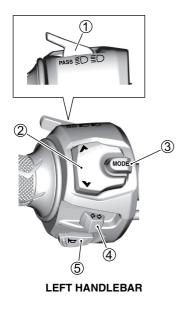
# **Right Side View**



## **Right Side View**

- ② Rear brake fluid reservoir ( 3-48)
- 26 Windshield (2-118)
- ② Rear brake light switch ( 3-53)
- ② Rear brake pedal ( 2-109 / 3-52)
- ② Engine oil inspection window ( 3-27)
- 3 Engine oil filler cap ( 3-29)
- 3 Engine oil drain plug ( 3-30)
- 32 Engine oil filter ( 3-30)

## **HANDLEBAR SWITCHES**





**RIGHT HANDLEBAR** 

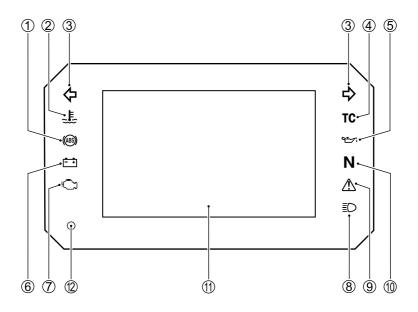
#### **LEFT HANDLEBAR**

- 1 Dimmer switch/Headlight flasher switch ( 2-85)
- 2 SELECT switch
- 3 MODE switch
- 4 Turn signal light switch ( 2-87)
- ⑤ Horn switch (☐ 2-86)

#### **RIGHT HANDLEBAR**

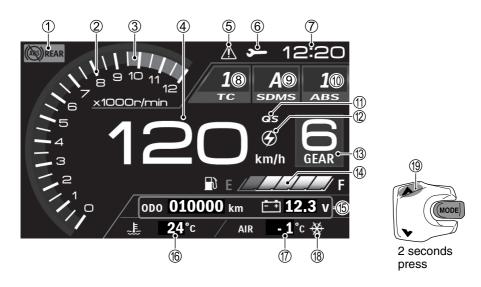
- 6 Engine stop switch ( 2-87)
- 7 Electric starter switch ( 2-88)
- 8 Hazard warning switch ( 2-89)

## **WARNING AND INDICATOR LIGHTS**



- 1 ABS indicator light ( 2-26)
- 2 Engine coolant temperature warning indicator light ( 2-31)
- ③ Turn signal indicator light ( 2-21)
- 4 Traction control indicator light ( 2-28)
- ⑤ Oil pressure warning indicator light ( 2-30)
- 6 Electrical charging indicator light ( 2-32)
- Malfunction indicator light ( 2-22)
- 8 High beam indicator light ( 2-21)
- Master warning indicator light ( 2-23)
- 1 Neutral indicator light (2-21)
- ① LCD(CF 2-12)
- 12 Photo sensor ( 2-33)

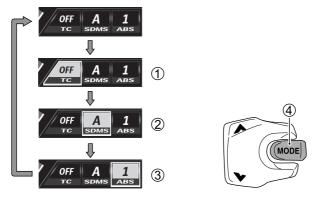
# LCD <RIDE view>



Press and hold the SELECT switch  $\blacktriangle$  (9) for about 2 seconds to switch to the MENU view.

- ① Rear ABS OFF indicator ( 2-51)
- ② Tachometer ( 2-34)
- ③ Red zone ( 2-34)
- 4 Speedometer ( 2-33)
- ⑤ Master warning indicator ( 2-23)
- 6 Service reminder indicator ( 2-41)
- 7 Clock ( 2-34)
- ® Traction control system indicator ( 2-44)
- 9 Suzuki drive mode selector indicator (SDMS) ( 2-48)
- (1) ABS mode indicator (2-51)
- ① Quick Shift indicator ( 2-58)
- ② Engine rpm indicator ( 2-53)
- (3) Gear position indicator (2-35)
- 4 Fuel level indicator ( 2-35)
- (5) Information window (2-36)
- ( Engine coolant temperature indicator ( 2-32)
- ① Ambient air temperature indicator ( 2-42)
- (EF 2-43)

## <RIDE SETTING>



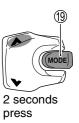
To change the display, push the MODE switch 4.

The RIDE view has the following items from ① to ③.

- ① TC (CF 2-44)
- Selects the setting of the traction control system.
   (G-mode / OFF / Mode-1 / Mode-2 / Mode-3).
- ② SDMS (CF 2-48)
- Select the setting of Suzuki drive mode selector indicator (SDMS). (A-mode / B-mode / C-mode)
- ③ ABS ( 2-51)
- Select the setting of ABS mode. (Rear-OFF / Mode-1 / Mode-2)

#### <MENU view>

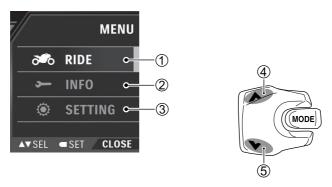




Press and hold the MODE switch (9) for about 2 seconds to return to the RIDE view.

- ① Rear ABS OFF indicator ( 2-51)
- ② Tachometer ( 2-34)
- ③ Red zone ( 2-34)
- 4 Speedometer ( 2-33)
- 5 Master warning indicator ( 2-23)
- 6 Service reminder indicator ( 2-41)
- 7 Clock ( 2-34)
- ① Quick Shift indicator ( 2-58)
- ② Engine rpm indicator ( 2-53)
- (13) Gear position indicator (2-35)
- ( Fuel level indicator ( 2-35)
- (5) Information window (2-36)
- ① Ambient air temperature indicator ( 2-42)
- 18 Freeze indicator ( 2-43)

### <MENU SETTING>



Operate the SELECT switch 🛕 ④ / 🔰 5 to set each item in the MENU view.

The MENU view has the following items from ① to ③.

## 1 RIDE

- RPM SET ( 2-53)
   Set the engine rpm indicator.
- QS SET ( 2-58)
  Set the Quick Shift. (ON / OFF)

## 2 INFO

- WARNING LIST ( 2-60)
   You can check information on a defect or malfunction.
- NEXT SERVICE ( 2-62)
   You can check the service reminder settings.

#### ③ SETTING

- BRIGHTNESS ( 2-65) Set the LCD brightness.
- DAY / NIGHT ( 2-67)
   LCD display background color setting.
- UNIT ( 2-69) Set the units.
- DATE / TIME ( 2-71)
   Set the date and time.
- DEFAULT SET ( 2-76)
   MENU settings to their defaults.
- SYSTEM INFO ( 2-78)
   Check the information of each system.

## **INSTRUMENT PANEL**

# **A WARNING**

Operating the switches to change the display while riding should be done within the limits of what traffic conditions allow. It is the rider's responsibility to ride safely.

Pay close attention to traffic conditions when operating the switches to change the display.

# **WARNING**

When operating the display, incorrect operation of the handlebar switch may cause an accident.

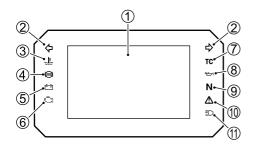
When operating the display, make sure that the mode is shifted and the values are set as intended before riding.

#### **INITIAL METER DISPLAY**

When you turn the ignition switch "ON", the LCD (Liquid Crystal Display) performs the opening operation.

- The following indicator lights come on for 3 seconds.
  - Turn signal indicator light 2
  - Engine coolant temperature warning indicator light ③
  - Electrical charging indicator light 5
  - Malfunction indicator light (6)
  - Neutral indicator light 9
  - Master warning indicator light 10
  - High beam indicator light 11
- The following indicator lights come on.
  - ABS indicator light 4
  - Traction control indicator light ⑦
  - Oil pressure warning indicator light ®

NOTE: Refer to the explanation of each indicator in this section for the turn-off condition.



### TURN SIGNAL INDICATOR LIGHT "←⇒"

Operate the right or left turn signal switch to make the turn signal indicator blink.

## **NEUTRAL INDICATOR LIGHT "N"**

The green indicator light will come on when the transmission is in neutral. The light will turn off when you shift into any gear other than neutral.

## HIGH BEAM INDICATOR LIGHT "≣▽"

This blue indicator light will be lit when the headlight high beam is turned on.

# MALFUNCTION INDICATOR LIGHT " " "

When the ignition switch is turned on, the malfunction Indicator light comes on for 3 seconds as a lamp check, and then turns off.

• (EU, UK, India)

When there is a malfunction in an emission control device or engine electrical device or the misfire is detected, the malfunction indicator light comes on or blinks.

If the malfunction indicator light comes on or blinks, "FI" appears on the meter display at the same time.

• (Except for EU, UK, India)

When there is a malfunction in an emission control device or engine electrical device, the malfunction indicator light comes on.

If the malfunction indicator light comes on, "FI" appears on the meter display at the same time.

For details, see "POPUP DISPLAY" on page 2-24.

# **NOTICE**

Continuing to run the engine with malfunction indicator light coming on or blinking may affect the emission device or drivability.

When the light blinks while the engine is running, stop the motorcycle in a safe place immediately in order to avoid damaging the catalytic converter. (EU, UK, India)

If you ride the motorcycle under this situation, ride at slow speed without opening the throttle largely and then have your motorcycle inspected immediately by your Suzuki dealer.

NOTE: If the malfunction indicator light is lit or blinking, consult your Suzuki dealer immediately.

# MASTER WARNING INDICATOR LIGHT

When the ignition switch is turned on, the master warning indicator light comes on for 3 seconds as a lamp check, and then turns off.

When an issue related to the following occurs, the master warning indicator light comes on:

- Engine related failure
- ABS related failure
- Motorcycle falls over
- Handlebar switches failure

For details, see "POPUP DISPLAY" on page 2-24

NOTE: If the master warning indicator light is lit or blinking, consult your Suzuki dealer immediately.

# MASTER WARNING INDICATOR (White)

When an issue related to the following occurs, the master warning indicator comes on:

- Data communication failure
- KEY related failure
- Engine related failure
- Motorcycle falls over
- Handlebar switches failure

For details, see "POPUP DISPLAY" on page 2-24.

NOTE: If the master warning indicator is lit or blinking, consult your Suzuki dealer immediately.

#### **POPUP DISPLAY**

Based on the detected information, a popup window appears on the right side of the display.

1 Battery voltage is low



② Communication between controllers failed



③ Immobilizer not approved (Immobilizer equipped model)



4 Engine-related fault detected



⑤ Motorcycle fell over



6 Handlebar switch failed



7 Service reminder opening alarm



8 Service reminder Opening advance notice



9 Ambient temperature lowered



NOTE: The engine cannot be started when "CHECK!" is displayed. Inspect the below items. If the "CHECK!" display does not disappear, have your motorcycle inspected by a Suzuki dealer.

- Are any fuses blown?
- Are the meter connectors connected?

### NOTE:

- The popup display function may not work depending on the riding environment (Altitude, temperature, etc.).
- Use "WARNING LIST" to review popup errors. For details, see "WARNING LIST" on page 2-60.

#### **ABS INDICATOR LIGHT "(ABS)"**

- This indicator normally comes on when the ignition switch is turned on and turns off after the motorcycle speed exceeds 10 km/h (6 mph).
- If there is a problem with the ABS (Antilock Brake System), this indicator light comes on. The ABS does not operate when the ABS indicator light is on.

# **A** WARNING

The ABS does not operate if the ABS indicator light is lit. Suddenly and overly applying the brakes when the ABS indicator light is lit may cause the wheels to lock, which may result in loss of control.

Have your motorcycle inspected by a Suzuki dealer promptly.

# **A WARNING**

Riding the motorcycle with the ABS indicator light on can be hazardous.

If the ABS indicator light blinks or comes on while riding, stop the motorcycle in a safe place and turn off the ignition switch. Wait a few minutes, turn the ignition switch "ON", and check whether the indicator light comes on.

- If the indicator light turns off after starting to ride, the ABS will be functioning.
- If the indicator light does not turn off after starting to ride the motorcycle, either the functioning of the ABS is restricted, or the ABS is not working at all. You should have the system checked by an authorized Suzuki dealer as soon as possible.

#### NOTE:

- The ABS indicator light can turn off if the engine is revved at high speed before you begin riding. If the ABS indicator light turns off after you start the motorcycle but before you begin riding, check the ABS indicator light function by turning the ignition switch "OFF" and "ON". If the ABS indicator light does not come on when the ignition switch is turned on, you should have the system checked by an authorized Suzuki dealer as soon as possible.
- In the situations below, the ABS indicator light that had once been turned off may temporarily come back on. If the light has been turned off after the speed has exceeded 10 km/h (6 mph), then this is not a malfunction.
  - When the battery voltage has declined
  - When the engine has restarted after once stopping due to the engine stop switch, etc.

### NOTE: (Brazil)

When the motorcycle is placed on a center stand with the engine running after riding the motorcycle and racing the engine, the ABS indicator light can come on. In such a case, check whether the ABS indicator light comes on by turning the ignition switch "OFF" and "ON". After that, check whether the ABS indicator light turns off after the motorcycle speed exceeds 10 km/h (6 mph). If the ABS indicator light does not turn off, you should have the system checked by an authorized Suzuki dealer as soon as possible.

# TRACTION CONTROL INDICATOR LIGHT "TC"

Traction control (TC) indicator operation differs depending on the motorcycle settings. For details, see "TRACTION CONTROL SYSTEM" on page 2-44.

#### The traction control indicator:

- Comes on when the ignition switch is turned on, and turns off when the speed reaches approximately 10 km/h (6mph) and the traction control system is operable.
- Blinks when the traction control system is operating.
- Lights constantly when the traction control system is set to OFF.

If the traction control (TC) indicator comes on other than when the ignition switch is turned on, park the motorcycle in a safe place and turn the ignition switch "OFF". Wait for a short time, start the engine, and then check whether the traction control indicator "TC" and malfunction indicator come on when the motorcycle is traveling at 10 km/h (6mph) or faster.

- The motorcycle is functioning correctly if the traction control (TC) indicator turns off when the motorcycle is traveling at 10 km/h (6mph) or faster.
- The motorcycle is not functioning correctly if the traction control (TC) indicator does not turn off when the motorcycle is traveling at 10 km/h (6mph) or faster. If the light does not go off, consult your Suzuki dealer.

# **A** WARNING

When the traction control system malfunctions, the traction control (TC) indicator and malfunction indicator come on at the same time. The traction control system does not operate in these circumstances.

When these indicators come on at the same time, set the traction control system to OFF, and consult your Suzuki dealer.

# OIL PRESSURE WARNING INDICATOR LIGHT "\""

When the ignition switch is turned on, the oil pressure warning indicator light comes on. Normally, oil pressure warning indicator light turns off after the engine starts.

# **NOTICE**

After starting the engine, opening the throttle or running the motorcycle with the oil pressure warning indicator light turned on, may adversely affect the engine.

Make sure that the oil pressure warning indicator light has turned off before operating the throttle or running the motorcycle.

## NOTICE

Riding the motorcycle or running the engine when the oil pressure warning indicator light comes on, may damage the engine.

If the oil pressure warning indicator light comes on, indicating low oil pressure, stop the engine immediately. Check the oil level and add oil if necessary. If there is a proper amount of oil and the light still does not turn off, have your authorized Suzuki dealer or a qualified mechanic inspect your motorcycle.

## 

When the ignition switch is turned on, the indicator light turns ON for approximately 3 seconds for lamp check. The indicator light turns ON if the coolant temperature exceeds the stipulated value. If the engine coolant temperature warning indicator light turns on while riding the motorcycle or during idling, move the motorcycle to a safe location and shut off the engine. Let the engine cool down before inspecting the amount of coolant.

For details, see "IN CASE OF OVERHEAT-ING (ENGINE COOLANT TEMPERATURE WARNING INDICATOR LIGHT COME ON)" on page 4-3.

NOTE: The engine coolant temperature warning indicator light may turn on when idling at high temperature for an extended period.

# **NOTICE**

Riding the motorcycle while it is overheating may cause engine damage.

If the engine coolant temperature warning indicator light turns on, shut off the engine and allow it to cool. Do not start the engine until the engine coolant temperature warning indicator light turns off.

# ENGINE COOLANT TEMPERATURE INDICATOR

The temperature indicator ① displays the temperature of the coolant in the range of 20°C (68°F) to 124°C (255°F).

The display is as below when the temperature is outside the range of 20°C (68°F) to 124°C (255°F).

- When the temperature is below 20°C (68°F): "\_\_\_"
- When the temperature is 125°C (257°F) or above: "Hi" (Blinking)



While the display temperature may show quite large changes, this is not an abnormality. Since there is a possibility of overheating if the display is in excess of 120°C (248°F), see "IN CASE OF OVERHEATING (ENGINE COOLANT TEMPERATURE WARNING INDICATOR LIGHT COME ON)" on page 4-3.

# ELECTRICAL CHARGING INDICATOR LIGHT " → "

The electrical charging indicator light comes on when a failure occurs in the charging system for the battery.

NOTE: Consult your Suzuki dealer if the indicator light comes on.

#### PHOTO SENSOR

The photo sensor detects ambient brightness and adjusts the LCD to optimal brightness.

WHITE or BLACK is selected in accordance with the set brightness if the background color is set to AUTO.

- To set the LCD brightness, see "BRIGHTNESS" on page 2-65.
- To set the LCD background color, see "DAY / NIGHT" on page 2-67.

#### NOTE:

- The instrument panel is provided with a photo sensor, which automatically adjusts the brightness of the TFT and dial according to the surrounding brightness. If the photo sensor is covered, automatic light adjustment may not function correctly.
- If the TFT display becomes hot, the screen may become dark. Once the temperature drops, the screen returns to the normal condition. However, if the screen continues to remain dark, consult your Suzuki dealer to have the motorcycle inspected.

#### **SPEEDOMETER**

The speedometer indicates the road speed in miles per hour or kilometers per hour.

#### NOTE:

- Switching between km/h and mph is done by selecting "UNIT". ( 2-69)
- Select km/h or mph as appropriate, to comply with traffic regulations.
- Check the speedometer display after changing the units.





#### **TACHOMETER**

The tachometer indicates the engine speed in revolutions per minute (r/min).

### <Red zone>

The red zone ① indicates an engine speed range in excess of permissible engine speed. To protect the engine, ride so that the needle does not enter the red zone. Be careful that the engine speed may increase excessively if you shift down at a high riding speed.



RIDE view



MFNU view

#### CLOCK

The time is displayed using a 12-hour, AM/ PM system.



It is adjusted by selecting "DATE / TIME". ( 2-71)

NOTE: This clock is powered by the battery of the motorcycle. If your motorcycle is to be left unused more than two months, remove the battery from the motorcycle.

#### **GEAR POSITION INDICATOR**

The gear position indicator displays gear position. This indicator displays "N" when the transmission is in neutral.

#### NOTE:

- When the display indicates "CHECK!" on the popup display, the gear position indicator does not indicate a number but indicates "-".
- When the gear engagement is insufficient, "—" may be displayed.



# **FUEL LEVEL INDICATOR "■"**

The fuel level indicator shows the amount of fuel remaining in the fuel tank.

- The fuel level indicator displays all 5 segments when the fuel tank is full.
- The mark ① blinks when the fuel level drops below 5.0 L (5.3/4.4 US/Imp qt).
- The mark and segment blink when the fuel drops below 2.0 L (2.1/1.8 US/Imp qt).



Fuel tank	Approximately 2.0 L	Approximately 5.0 L	Full
Segments	Blink	<u> </u>	
mark mark	Blink	Blink	

# NOTICE

Using all of the gasoline in the fuel tank (running out of gasoline) will damage the catalytic converter.

Replenish gasoline before it runs out.

#### NOTE:

- The fuel level indicator will not indicate correctly when the motorcycle is placed on the side stand. Turn the ignition switch to the "ON" position when the motorcycle is held upright.
- If the fuel mark blinks, fill the fuel tank immediately. Also, the last segment of the fuel level indicator blinks when the fuel tank is almost empty.

#### INFORMATION WINDOW

Turn on the ignition switch to display RIDE view.



**How to Setting** 

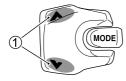
# **A WARNING**

Concentrating on the meters and switches while riding can lead to accident.

Never change the display while riding. Change or confirm settings when the motorcycle is stopped.

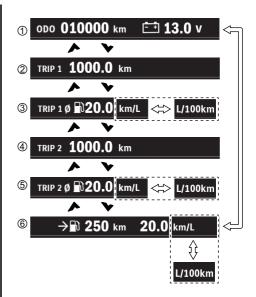
NOTE: For details about switching between km/h and mph, km/L and L/100km, MPG IMP and MPG US, see "UNIT" on page 2-69.

Use the SELECT switch 1 / to change the display.



The items change as follows.

- 1 Odometer / Voltmeter
- 2 Trip meter 1
- ③ Trip meter 1 (Average fuel consumption meter 1 (km/L, L/100km))
- 4 Trip meter 2
- (5) Trip meter 2 (Average fuel consumption meter 2 (km/L, L/100km))
- ⑥ Driving range meter / Instantaneous fuel consumption meter (km/L, L/100km)



#### Odometer

# ODO **010000** km

The odometer registers the total distance that the motorcycle has been ridden. The odometer ranges from 0 to 999999.

NOTE: The odometer display locks at 999999 when the total distance exceeds 999999.

# **Trip Meter**

# TRIP 1 1000.0 km

Distances of up to 9999.9 after a reset will be displayed.

- There are 2 modes, TRIP 1 and TRIP 2.
- Press and hold the SELECT switch for approximately 2 seconds to reset the display to 0.0. This reset operation only applies to either TRIP 1 or TRIP 2, not both.
- Performing the reset operation while the display is set, also resets the corresponding average fuel consumption meter.

NOTE: When the trip meter exceeds 9999.9, the trip meter will return to 0.0 and start counting again.

# **Average Fuel Consumption Meter**

TRIP 1 Ø 1020.0 km/L

TRIP 1 Ø 🖹 5.0 L/100km

TRIP 1 Ø 1 47.0 MPG US

TRIP 1 Ø 1 56.4 MPG IMP

- This meter displays the fuel consumption for the distance traveled for both TRIP 1 and TRIP 2. Displays are in the following ranges.
  - km/L, MPG US, MPG IMP: 0.1 to 99.9
  - L/100 km: 2.0 to 99.9
- When the trip meter is displaying 0.0, average fuel consumption meter is displayed as --.-.

NOTE: The display shows estimated values, which may not be the same as actual values.

#### Voltmeter



The voltmeter displays the battery voltage.

### NOTE:

- The displayed value may differ from the value of other instruments.
- If a voltage below 12.0 V is frequently displayed, have the motorcycle inspected by an authorized Suzuki dealer.

# **Instantaneous Fuel Consumption Meter**

20.0 km/L
5.0 L/100km
47.0 MPG US

56.4 MPG IMP

This indicator displays the instantaneous fuel consumption within the following ranges as the motorcycle is being ridden.

- km/L, MPG US, IMP: 0.1 99.9
- L/100km: 2.0 99.9

#### NOTE:

- Fuel consumption is not measured when the motorcycle speed is 3 km/h (3 mph) or less.
- The display shows estimated values, which may not be the actual values.

# **Driving Range Meter**



The driving range meter displays estimated driving range (distance) based on the remaining fuel. The driving range is recalculated when you refuel, but the indication may not change when only a small amount of fuel is added.

The driving range will not be recalculated when the motorcycle is placed on the side stand. Check the estimated driving range (distance) when the side stand is retracted. When the battery is disconnected, the driving range meter will be reset. When this happens, the meter indicates "--" until the motorcycle is ridden for a certain distance.

#### NOTE:

- Estimated driving range (distance) is an estimated value. The display may differ from the actual distance traveled, so we recommend that you refuel early.
- The meter does not use the average fuel consumption value to calculate driving range (distance) and the calculation result may not be the same as indicated by the average fuel consumption meter.

### SERVICE REMINDER INDICATOR ">==""

You can be reminded when the next service is due by setting the date and distance. When the set date or distance has been reached, the service reminder indicator "comes on."

For details, see "NEXT SERVICE" or page 2-62.

NOTE: Consult your Suzuki dealer for the appropriate service reminder setting.

# AMBIENT AIR TEMPERATURE INDICATOR

The ambient air temperature indicator always shows the ambient temperature.

- The temperature display range is from -10°C to 50°C (14°F to 122°F).
- The ambient air temperature indicator "Lo" when the ambient air temperature is below -11°C (13°F).
- The ambient air temperature indicator "HI" when the ambient air temperature is above 51°C (123°F).



The unit of temperature ( $^{\circ}$ C/ $^{\circ}$ F) can be changed by selecting "UNIT". ( $^{\sim}$  2-69)

#### NOTE:

- Use the temperature display as a guide. This display may not appear correctly when the motorcycle is stopped or moving at low speed.
- When the motorcycle is stopped, the engine heat could influence the displayed temperature.

## **Low Temperature**

A pop-up window "ICY ROAD" ① appears on the instrument panel whenever the ambient temperature falls below 3°C (38°F).

The ambient air temperature indicator ② and the freeze indicator ③ blink for 30 seconds. The freeze indicator ③ is displayed until the ambient temperature rises to 5°C (41°F) or higher.





#### NOTE:

- Use the temperature display as a guide. This display may not appear correctly when the motorcycle is stopped or moving at low speed.
- When the "ICY ROAD" popup display appears, there is a possibility of freezing of the road surface. Therefore, be particularly careful about the condition of the road surface.

### RIDING ASSISTANCE SYSTEM SETTINGS

### TRACTION CONTROL SYSTEM

When the traction control system senses rear wheel spin during acceleration, it automatically controls engine power output to restore the gripping power of the rear tire. The traction control indicator light "TC" blinks when the traction control system is controlling engine power output.

# **WARNING**

If using a non-designated tire or sprocket, the traction control system may not be able to accurately control the engine output.

Use the designated items for the tire or sprocket.

# **A WARNING**

Relying too much on the traction control system can be hazardous.

The traction control system cannot provide control to limit rear wheel spin under certain conditions. The system cannot control rear wheel spin resulting from high speed cornering, excessive bank angle, braking operation or engine braking effect. Be sure to operate the motorcycle at an appropriate speed according to your riding skill, weather and road conditions.

The traction control system controls the engine output in order to reduce the idling of the rear wheel and can be set to the following modes.

### <OFF>

If OFF is selected, the engine output is not controlled even if the rear wheel performs idling.

### <Mode-1 - 3>

Mode setting for paved roads.

The lowest control level is set for Mode-1, and the highest is set for Mode-3.

## <G-Mode>

Mode setting for unpaved roads.

For the paved road mode, the drive force is set to operate more actively.

NOTE: Since G-Mode allows rear wheel spin of a certain level or higher, it is not suitable for use on paved roads.



NOTE: Before riding, check the setting mode on the traction control system indicator in the instrument panel.

#### NOTE:

- When the traction control system is controlling engine power output, the engine sound and exhaust sound will change.
- When the front or rear tires do not stay in full contact with the road surface, such as when riding on a bumpy road, the traction control system will control engine power output.
- When the traction control system is controlling engine power output, the engine speed will not increase even if the throttle grip is operated to increase engine power. If this happens, close the throttle completely to restore the normal condition.

# Setting

# **A WARNING**

If you keep an eye on the meter or switch while driving, it may cause an accident.

When switching the mode, pay close attention to the safety around you.

## NOTE:

- If the mode cannot be switched, the mode indicator blinks.
  - If you cannot change the mode with the correct operation, stop the motorcycle at a safe location, and turn OFF the ignition switch once.
- If the mode still cannot be changed after turning the ignition switch ON again, request your Suzuki dealer for an inspection.

Make the settings according to the procedure below. If the ignition switch is turned off while making settings, the mode selected at the time of turning the ignition switch "OFF" is set.

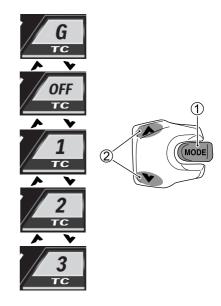
- 1. Display the Ride View.
- 2. Press the MODE switch ① to select "TC". The selected item is highlighted.



Press the SELECT switch ② ▲ / ➤ to select a mode.

#### NOTE:

- The mode can be changed when the throttle is not wide open.
- If the mode cannot be changed, the indicator blinks when SELECT switch ② is pressed.



 If the MODE switch ① is pressed, the settings are confirmed and the highlighted display is canceled.

# SUZUKI DRIVE MODE SELECTOR (SDMS)

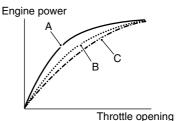
"SDMS" is a device that allows engine output characteristics to be chosen from A, B, or C drive modes to suit the rider's preferences, with a range of choices available for riding modes including high-speed cruising and congested roads.







### **Drive Mode Characteristics**



#### A-mode

A-mode provides sharp throttle response at all throttle openings to obtain maximum engine power.

### **B-mode**

B-mode provides softer throttle response than A-mode up to middle throttle openings.

## C-mode

C-mode provides softer throttle response than B-mode up to high throttle openings.

# Setting

# **WARNING**

Operating the SDMS while the motorcycle is traveling changes the engine speed and output, and may adversely affect riding stability.

Operate the SDMS only while the motor-cycle is stopped.

# **A WARNING**

If you keep an eye on the meter or switch while driving, it may cause an accident.

When switching the mode, pay close attention to the safety around you.

#### NOTE:

- If the mode cannot be switched, the mode indicator blinks.
- If you cannot change the mode with the correct operation, stop the motorcycle at a safe location, and turn OFF the ignition switch once.
- If the mode still cannot be changed after turning the ignition switch ON again, request your Suzuki dealer for an inspection.

Make the settings according to the procedure below. If the ignition switch is turned off while making settings, the mode selected at the time of turning the ignition switch off is set.

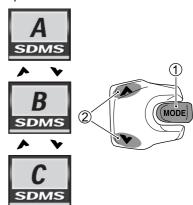
- 1. Display the Ride View.
- Press the MODE switch ① to select "SDMS". The selected item is highlighted.



Press the SELECT switch ② ▲ / ➤ to select a mode.

#### NOTE:

- The mode can be changed when the throttle is not wide open.
- If the mode cannot be switched, the indicator blinks when the SELECT switch ② is pressed.



 If the MODE switch ① is pressed, the settings are confirmed and the highlighted display is canceled.

#### **ABS MODE**

You can select the ABS intervention level.

- Rear OFF: Stop ABS rear brake intervention.
- Mode-1: Reduces the intervention of the ABS.
  - Mode-2: Increases the intervention of ABS as compared to Mode-1.



# **A WARNING**

Rear-OFF is a dedicated setting for unpaved roads. Using it on a paved road may cause an unexpected accident.

Use Rear-OFF on unpaved roads only.

### Setting

The ABS mode can be changed in the following conditions:

- When the motorcycle is parked
- When the throttle grip and brakes are not operated while riding the motorcycle

# **A WARNING**

Concentrating on the meters and switches while riding is dangerous.

If you must change the ABS mode while riding, be sure to pay sufficient attention to the safety of the surroundings.

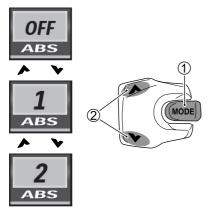
Make the settings according to the procedure below.

If you turn off the ignition switch while making settings, the settings (Mode-1 or Mode-2) at the time of turning the ignition switch off are selected. If the mode is set to off, the settings are canceled each time the ignition switch is turned off, and Mode-1 is set.

- 1. Display the RIDE view.
- Press the MODE switch ① to select ABS. When you select ABS, it is highlighted.

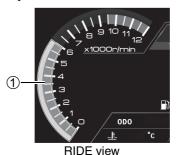


NOTE: If the mode cannot be changed, the indicator blinks when SELECT switch ② is pressed.



#### **ENGINE RPM INDICATOR**

Make the "ON" / "OFF" setting on the engine rpm indicator, and set the engine speed blinked by the tachometer bar ①.



0 5 10 ×1000r/min

MENU view

Ex.: RPM setting 6,000 r/min

1. Display the MENU view.





- See "MODE setting" on page 2-54.
- See "RPM setting" on page 2-56.

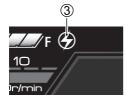
# MODE setting



 Use the SELECT switch ▲ / ▼ to select "ON" or "OFF".



3. Press the MODE switch to confirm the setting. If "ON" is set, the engine rpm indicator ③ will turn on.







# **RPM** setting

 Select "RPM" using the SELECT switch \ \ \ \ \ , and then press the MODE switch.



 Select the numerical value of engine speed using the SELECT switch ▲ / ▼, and then press the MODE switch to confirm the setting.







#### **QUICK SHIFT**

Set the mode setting for "Quick Shift" to "OFF" or "ON".

Once the "Quick Shift" has been set on the instrument panel display, the shift change operation is available without using the throttle grip or clutch lever during riding.

When the motorcycle starts moving from the stopping status, or is stopped with the gear engaged, it is required for you to use the clutch lever.

NOTE: For the riding with the "Quick Shift" used, see "Quick Shift operation procedure" on page 2-106.

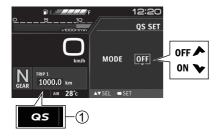
- Display the MENU view.





 Use the SELECT switch ▲ / ➤ to set "ON" or "OFF". If "ON" is set, the quick shift indicator ① will turn ON.

NOTE: If unable to change the setting, press the SELECT switch, and either "ON" or "OFF" will start flashing.



Press the MODE switch to return to the previous screen.+



### **INFO SETTINGS**

#### **WARNING LIST**

These messages provide information on current issues or failures occurring in the motorcycle. WARNING LIST can only be selected when an issue is occurring.

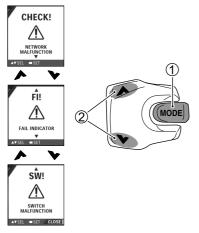
- 1. Display the MENU view.
- Select "INFO" using the SELECT switch
   ♠ / ♥, and then press the MODE switch ①.



 Select "WARNING LIST" using the SELECT switch ② ▲/▼, and then press the MODE switch ①.



The SELECT switch ② ▲ / ➤ can be used to check information on a defect or malfunctioning.



For details, see "POPUP DISPLAY" on page 2-24.

 Select "CLOSE" and press the MODE switch ① to return to the previous screen.

#### **NEXT SERVICE**

Service Reminder notifies you of the next scheduled service based on date and distance settings via a service reminder display and indicator.

# **A WARNING**

Continuing to ride the motorcycle without performing required maintenance can adversely affect the motorcycle and may lead to a crash.

Use the service reminder to remind you when it is time to have maintenance performed. Ask your Suzuki dealer to perform the service and to reset the service reminder.

NOTE: Consult your Suzuki dealer for the service reminder setting.

# <Opening advance notice screen>

When 1 month or 1000 km (600 mile) remains before the set date or distance, advance notice of the service interval (inspection date, remaining distance) is indicated for 3 seconds when the ignition switch is turned on.



Ex.: When the date condition is satisfied



Ex.: When the date and distance conditions are satisfied

# <Opening alarm screen>

If the service reminder indicator comes on, an alarm screen is indicated for 3 seconds when the ignition switch is turned on.



# <When the service reminder indicator comes on>

- The "sen" mark ① is indicated when the set date or distance has been reached.
- Regardless of which is reached first, distance or date, the distance is indicated with "-km" or "-mile" and the date is indicated with the set date.



# <Checking service reminder date and distance settings>

- 1. Display the MENU view.



3. Select "NEXT SERVICE" using the SELECT switch ♠ / ❤, and then press the MODE switch.



4. The set date and distance are displayed.



Press the MODE switch to return to the previous screen.

Factory default settings
• 1,000 km (600 mile)

### **DISPLAY SETTINGS**

#### **BRIGHTNESS**

The brightness setting options for the instrument panel include "BRIGHT", "MEDIUM", and "DARK".

# **A** WARNING

The brightness of the instrument panel changes according to the brightness of the surroundings via the photo sensor. As such, if the sensor is covered with a sticker or other object, the instrument panel display cannot be seen in bright environments, which could lead to an accident.

Do not cover the photo sensor with stickers or somehow block light from reaching the photo sensor.

- Display the MENU view.



3. Select "BRIGHTNESS" using the SELECT switch ▲ / ▼, and then press the MODE switch to change to the settings screen. The item for which a check mark ✓ is displayed is the current setting



 Using the SELECT switch ▲ / ▼, move the mark 
 to any one of "BRIGHT", "MEDIUM" or "DARK".



Ex.: DARK

5. Press the MODE switch to move the check mark ✓ and confirm the setting.



Ex.: DARK



#### DAY / NIGHT

The background color options for the instrument panel include "AUTO", "WHITE" and "BLACK".

- 1. Display the MENU view.



3. Select "DAY / NIGHT" using the SELECT switch  $\wedge$ / $\vee$ , and then press the MODE switch to change to the settings screen. The item for which a check mark is displayed is the current setting



4. Using the SELECT switch ▲ / ▼, move the mark to any one of "AUTO", "WHITE" or "BLACK".



Fx.: BLACK

5. Press the MODE switch to move the check mark  $\checkmark$  and confirm the setting.



Ex.: BLACK

6. Select "EXIT" using the SELECT switch ▲ / ▼, and then press the MODE switch to return to the previous screen.



#### UNIT

Set the units of speed, distance, fuel consumption, ambient temperature, and water temperature using the following procedure.

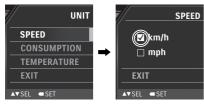
NOTE: "SPEED" appears only in instrument panels with which the unit of speed can be switched between km/h and mph.

- 1. Display the MENU view.

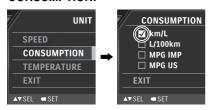




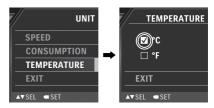
- - SPEED:



CONSUMPTION:



TEMPERATURE:



 Using the SELECT switch ▲ / ▼, move the mark 
 to the unit to be displayed.



Ex.: CONSUMPTION (L/100km)

6. Press the MODE switch to move the check mark ✓ and confirm the setting.



Ex.: CONSUMPTION (L/100km)



Ex.: CONSUMPTION (L/100km)

#### DATE / TIME

Set the display pattern of the year, month, and day, and also set the date and time.

NOTE: If the battery has been disconnected, the date and time will need to be reset.

- Display the MENU view.





 Select the item to set using the SELECT switch ▲/▼, and then press the MODE switch to fix the setting. Select "EXIT" to return to the previous screen.



Ex.: DATE FORMAT

#### **Date Format**

The order of the year, month, and day indications can be selected from the following 3 patterns.

- MM/DD/YYYY (Month, Day, Year)
- YYYY/MM/DD (Year, Month, Day)
- DD.MM.YYYY (Day, Month, Year)



 Using the SELECT switch ▲ / ▼, move the mark to the display pattern.



Ex.: YYYY/MM/DD

3. Press the MODE switch to move the check mark ✓ and confirm the setting.



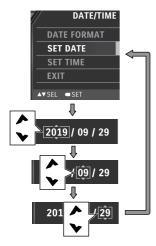
Ex.: YYYY/MM/DD



Ex.: YYYY/MM/DD

#### **Set Date**

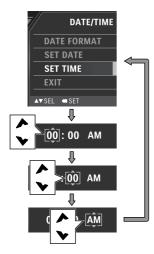
- Select "SET DATE", and then press the MODE switch to change to the screen for setting the "Year".
- 2. Use the SELECT switch ▲/▼ to match the "Year".
- 3. Press the MODE switch to change to the screen for setting the "Month".
- 4. Use the SELECT switch ▲/▼ to match the "Month".
- 5. Press the MODE switch to change to the screen for setting the "Day".
- 6. Use the SELECT switch ▲/▼ to match the "Day".
- 7. Press the MODE switch to return to the screen for selecting "SET DATE".



⇒ : MODE switch ▲ : SELECT switch ➤ : SELECT switch

#### **Set Time**

- Select "SET TIME", and then press the MODE switch to change to the screen for setting the "Hour".
- Use the SELECT switch ▲/▼ to match the "Hour".
- 4. Use the SELECT switch ▲/▼ to match the "Minutes".
- 5. Press the MODE switch to change to the screen for setting "AM/PM".
- 6. Use the SELECT switch ▲/▼ to match "AM/PM"
- 7. Press the MODE switch to return to the screen for selecting "SET TIME".



⇒: MODE switch ▲: SELECT switch ➤: SELECT switch

#### **DEFAULT SET**

The following table represents the default settings to which the system can be initialized.

Item		Default	
BRIGHTNESS		MEDIUM	
DAY/NIGHT		BLACK	
RPM SET	MODE	ON	
	RPM	9,500 r/min	
UNIT	SPEED	km/h (Except for US) mph (US only)	
	CONSUMP- TION	km/h: km/L (Except for US) mph: MPG US (US only)	
	TEMPERA- TURE	°C (Except for US) °F (US only)	
DATE/ TIME	DATE FORMAT	MM/DD/YYYY YYYY/MM/DD DD.MM.YYYY (depending on the instru- ment panel specifications)	

### <Default settings>

- 1. Display the MENU view.

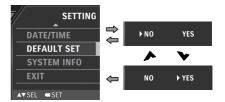


- Use the SELECT switch to select "NO" / "YES".
- Press the MODE switch to return to the previous screen.

⇒: MODE switch

★: SELECT switch

>: SELECT switch



#### SYSTEM INFO

From here, you can view information on the software version.

- 1. Display the MENU view.

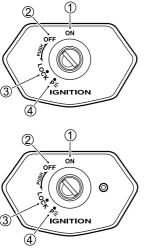




### **IGNITION SWITCH**

### **POSITIONS**

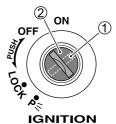
There are 4 positions for the ignition switch; ON 1, OFF 2, LOCK 3 and P 4.



(Immobilizer equipped model)

### NOTE:

• The key hole ① can be covered with a lid ②.



Align the lid hole position with the keyhole position when inserting the key.



# **A WARNING**

Operating the key while the motorcycle is moving may result in a crash.

Operate the key only after stopping the motorcycle.

# **A** WARNING

Falls caused by impact or slipping may result in malfunctioning of the motorcycle. Motorcycle malfunctions may result in fires, or could result in injury from moving parts such as the rear wheel.

If the motorcycle falls, turn the ignition switch "OFF" immediately and stop all devices. As falling may damage parts that are not visible, have your motorcycle inspected by a Suzuki dealer.

### NOTICE

Operating the ignition switch while the motorcycle is running will stop the engine operating smoothly and may negatively affect the engine and the catalytic converter.

Do not operate the ignition switch while the motorcycle is running.

### OFF ("OFF" position)

- The engine stops.
- The lights turn off.
- · The key can be removed.

### ON ("ON" position)

- The engine can start and the motorcycle is able to be ridden.
- The following lights turn on.
  - Headlight
  - Taillight
  - Position light
  - License plate light
- The key cannot be removed.

### LOCK ("LOCK" position)

- The handlebars lock.
- The lights do not come on.
- The key can be removed.

To prevent theft, lock the handlebars when leaving the motorcycle. We recommend also using a chain lock.

### <Locking>

- Turn the handlebars all the way to the left.
- While pushing the key in, turn it from OFF to LOCK.
- 3. Pull the key out.

#### NOTE:

- Move the handlebars to the left and right, and check that they are locked firmly.
- If the handlebars are difficult to lock, turn the key while moving them slightly to the right.

### <Unlocking>

Insert the key and while pushing it in, turn it from LOCK to OFF.

#### NOTE:

- Before riding, move the handlebars to the right and left, and check that they turn the same amount in both directions.
- The ignition switch key hole features a lid that covers it.

### "P" (PARKING) position

When parking the motorcycle, lock the steering and turn the key to the "P" position. The key can now be removed and the position light, license plate light and taillight will remain lit and the steering will be locked. This position is for night time roadside parking to increase visibility.

# **A WARNING**

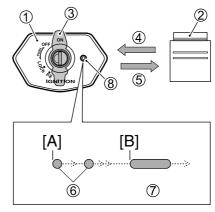
Turning the ignition switch to the "P" (PARKING) or "LOCK" position while the motorcycle is moving can be hazardous. Moving the motorcycle while the steering is locked can be hazardous. You could lose your balance and fall, or you could drop the motorcycle.

Stop the motorcycle and place it on the side stand before locking the steering. Never attempt to move the motorcycle when the steering is locked.

### IMMOBILIZER (if equipped)

Compares whether the ID of the key inserted is one that has been registered in the motorcycle ECM, and determines whether or not to start the engine.

When the ignition switch ① is turned on, the ECM ② directs the controller contained in the key ③ to transmit its ID ④. (At this time, the number of times the indicator blinks indicates the number of keys registered to the motorcycle ⑥) In response, the key sends its ID ⑤, and if the ECM deems the ID to be correct, the engine can be started, and the indicator lights for 2 seconds ⑦.



[A]: Ignition switch is turned ON

[B]: Engine can be started

8: Immobilizer indicator

#### NOTE:

- If the indicator continues to blink without stopping, then the key is wrong or there is a transmission error. Turn the ignition switch "OFF", and redo the operation.
- Initially 2 keys are registered to the motorcycle. 2 additional keys can be registered. The number of times the indicator blinks indicates the number of keys registered to the motorcycle.
- If both keys are lost, 2 blank keys and the ECM must be replaced. Be sure to store the spare key in a safe place.
- When inserting the key, bringing the spare key for this motorcycle or an immobilizer-compatible key from another motorcycle close to the immobilizer antenna may cause the immobilizer system to stop functioning normally. Do not attach 2 or more immobilizer-compatible keys to a key holder.

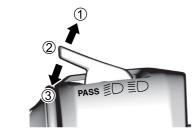
 Metal items, magnetic items, and items that transmit radio signals have a detrimental effect on immobilizer transmission. Accordingly, do not attach the immobilizer to a key holder or put it near keys.

### HANDLEBAR SWITCHES

# DIMMER SWITCH/HEADLIGHT FLASHER SWITCH

#### Dimmer switch

Changes the headlight between high-beam and low-beam.



- 1: High-beam
- 2: Low-beam
- ③: Flasher

### High-beam "≣⊘"

Push the switch away from you to change to high-beam.

### 

Pull the switch toward you to change to lowbeam.

### Headlight flasher switch "PASS"

Turns the headlights to high-beam while the switch is pulled toward you. Releasing the switch returns the headlights to low-beam.

# **NOTICE**

The heat of the headlight may melt the headlight lens if the lens is covered or if an object is placed close to the lens.

Do not leave objects in front of the headlight or taillight, or cover the headlight or taillight with a cloth, etc.

# NOTICE

If tape is applied to the headlight, the location where the tape has been applied may melt due to heat from the light.

Do not apply tape to the headlight.

NOTE: Set the headlight to low-beam if there are oncoming vehicles or vehicles traveling ahead of you.

#### HORN SWITCH "₩"

While the switch is pressed, the horn sounds.

#### TURN SIGNAL LIGHT SWITCH "←⇒"

Use as a signal when turning right or left, or when changing lanes.

### Right turn ⇒

Set the switch to the  $\Rightarrow$  side to make the right turn signal light blink. Push the switch in to cancel turn signal operation.

### Left turn <□

Set the switch to the  $\leftrightarrows$  side to make the left turn signal light blink. Push the switch in to cancel turn signal operation.

# **A WARNING**

Leaving the turn signal on may cause others to misunderstand your intended direction of travel, and cause crashes.

The turn signal switch does not turn off automatically. After use, be sure to push the switch in to cancel turn signal operation.

# ENGINE STOP SWITCH / ELECTRIC STARTER SWITCH

### **Engine Stop Switch**

Stop the engine immediately in emergency situations such as a fall. Placing the engine stop switch in the "X" (STOP) position stops the engine. Normally, leave it in the " $\Omega$ " position.

### "∩" position

Electric circuits related to the engine are connected.

The engine can be started and can run.

## "XX" position

Electric circuits related to the engine are not connected.

- The engine stops.
- The engine cannot be started.

## NOTICE

Changing the engine stop switch from  $\Omega$  to  $\mathscr{R}$  or from  $\Omega$  to  $\mathscr{R}$  to  $\Omega$  while riding may damage to the engine or the catalytic converter (if equipped).

Do not use the engine stop switch except in an emergency.

NOTE: When the engine stop switch has been used to stop the engine, be sure to turn the ignition switch "OFF". Leaving the ignition switch "ON" may cause the battery to run down.

### Electric Starter Switch "(\$)"

Pushing the electric starter switch causes the starter motor to turn over and starts the engine.

For details, see "STARTING THE ENGINE" on page 2-90

### NOTE:

- The engine cannot start when the engine stop switch is in the "X" position.
- The motorcycle is equipped with SUZUKI EASY START SYSTEM, so when you press the electric starter switch the starter motor will keep turning over for a few seconds even if you let the starter switch go. After a few seconds the engine starts, and the starter motor stops.

### HAZARD WARNING SWITCH "A"

The hazard warning switch is used in emergency situations, such as when a malfunction has occurred. Sliding the switch causes all turn signals to blink.

NOTE: Do not use the hazard warning switch except for in emergencies. Using it when the engine is stopped may cause the battery to run down.



### STARTING THE ENGINE

#### STARTING PROCEDURE

Use the following procedure to start the engine.

- Make sure that the transmission is in neutral.
- Check that the engine stop switch is set to "Q".
- 3. Set the ignition switch to "ON".
- 4. Check that the malfunction indicator light has gone out.
- With the throttle grip closed, press the electric starter switch "(3)". See "SUZUKI EASY START SYSTEM" on page 2-93.
- Before riding, make sure that the side stand is fully up. See "SIDE STAND/ IGNITION INTERLOCK SYSTEM" on page 2-95.

NOTE: This motorcycle has a starter interlock system for the ignition and starter circuit. The engine can only be started if:

- The transmission is in neutral, or
- The transmission is in gear, the side stand is fully up, and the clutch is pulled in.

NOTE: This motorcycle features the Suzuki Easy Start System, allowing you to start the engine with a single push of the electric starter switch. For details, see "SUZUKI EASY START SYSTEM" on page 2-93.

### When the Engine is Hard to Start:

Open the throttle approximately 1/8 turn and press the electric starter switch "(\$)".

# **A WARNING**

Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

# **NOTICE**

Continuously turning the starter motor for 5 seconds or more consumes a large amount of power and may cause the battery to run down.

Do not push and hold the electric starter switch for 5 seconds or more or use the Suzuki Easy Start System to turn the starter motor over continuously.

### NOTICE

After starting the engine, opening the throttle or riding the motorcycle with the oil pressure warning indicator light turned on, may adversely affect the engine.

Make sure that the oil pressure warning indicator light has turned off before opening the throttle or riding the motorcycle.

# **NOTICE**

If you start the engine with the gear position indicator and neutral indicator providing incorrect indications, engine damage can occur.

Before starting the engine, check whether the gear position indicator and neutral indicator are providing the indications described below. If they are not providing the indications described below, have your motorcycle inspected promptly by a Suzuki dealer.

- When the gear position indicator shows N, the neutral indicator is lit.
- When the gear position indicator shows one of (1, 2, 3, 4, 5, 6), the neutral indicator turns off.

NOTE: When starting the engine, you must pull in the clutch if the gear is in any position other than neutral.

NOTE: When the motorcycle falls over, a system stops the engine. The master warning indicator light also comes on. To restart the engine, after righting the motorcycle, temporarily turn the ignition switch OFF, then turn it on again. When the master warning indicator light goes off the engine can be started again. It may take a few minutes for the master warning indicator light to go off after turning off the ignition switch.

### **NOTICE**

If you hold the electric starter switch down while the malfunction indicator is lit, the battery may run down.

Do not hold the electric starter switch down while the malfunction indicator is lit.

#### **SUZUKI EASY START SYSTEM**

You can start the engine with a single push of the electric starter switch. The starter motor continues to turn over after you take your hand off the switch, and stops after a few seconds or after the engine starts.

- If the gear position is neutral you can start the engine without pulling in the clutch.
- If the gear position is anything except neutral you must pull in the clutch to start the engine.

In some cases the engine may not start due to the position of the side stand and the gear. For details see "SIDE STAND/IGNITION INTERLOCK SYSTEM" on page 2-95.

NOTE: Depending on the condition of the battery, the engine might not start easily by SUZUKI EASY START SYSTEM. If the engine is difficult to start, squeeze the clutch lever with the transmission in neutral and continue pressing the electric starter switch to start the engine. If the engine fails to start, the battery will most likely lose power. In this case, charge or change the battery.

### **Proper Warm up**

In the following circumstances, allow sufficient idling time to warm it up before riding.

- When you have not used the motorcycle for an extended period
- In extremely low temperatures (as a guide, -10°C (14°F) or less) in cold regions

In any other circumstances, out of consideration for the environment, begin riding promptly after starting the engine.

# **NOTICE**

Immediately after starting the engine, revving the engine, sudden acceleration, or abrupt braking may cause the engine to malfunction.

Run the engine for a period of several tens of seconds to several minutes to warm it up before beginning travel.

### NOTICE

Leaving the engine running for an extended period without riding, in order to charge the battery, etc., may cause the engine to overheat. Overheating may damage engine parts and cause the exhaust pipe to change color.

Stop the engine if you do not intend to begin riding promptly.

# SIDE STAND/IGNITION INTERLOCK SYSTEM

The motorcycle has a system to prevent riders from forgetting to stow the side stand and then traveling with it down.

The system operates as follows.

#### <When the side stand is down>

- The engine cannot be started when the motorcycle is in gear. (The engine can be started if the motorcycle is in neutral)
- Placing the motorcycle in gear while the engine is running stops the engine.

### <When the side stand is fully up>

Moving the side stand down while the engine is running and the motorcycle is in gear stops the engine.

# **A WARNING**

If you move the side stand down while riding the motorcycle, the engine will stop, which may cause a crash.

Never move the side stand down while riding the motorcycle.

### NOTE:

- If side stand is not completely up the engine stops when you shift gears from neutral to any other gear.
- Lubricate the side stand if it does not operate smoothly.

### **STANDS**

### **TYPES OF STANDS**

This motorcycle is equipped with a side stand and center stand (Brazil).

### SIDE STAND1

To place the motorcycle on the side stand, place your right foot on the end of the side stand and push down firmly until the stand pivots fully through its arc and comes to rest against its stop.

For details on the side stand/ignition interlock system, see page 2-95.



# **WARNING**

Riding with the side stand incompletely retracted can result in a crash when you turn left.

Check operation of the side stand/ ignition interlock system before riding. Always retract the side stand completely before starting off.

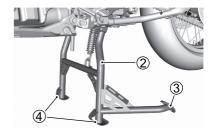
NOTE: When parking the motorcycle, choose a surface that is as hard and flat as possible. If you cannot avoid parking on a slope, stop the motorcycle with the front facing up the slope, and place it in 1st gear to lock the tires in place.

### **CENTER STAND (Brazil)**

Attach the center stand ② according to the procedure below.

- 1. Stop the engine.
- Make the motorcycle upright by holding the left handle with the your left hand and the rear carrier grip with your right hand.
- Place your right foot on the foothold 3
   and push it down until both legs 4 of the
   center stand are in touch with the
   ground.

4. Pull up the rear carrier grip while applying your body weight on the foothold ③.

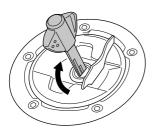


### REFUELING

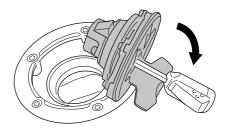
### **REFUELING PROCEDURE**

Use the following procedure to refill with gasoline.

- 1. Open the fuel tank cap key cover.
- Insert the key and turn it to the right to unlock.



3. Open the cap.



4. Refill with gasoline.

Do not fill any higher than the lower edge ① of the inlet. Filling higher than the lower edge of the inlet may allow gasoline to leak.

Specified fuel: Unleaded premium gasoline

Fuel tank capacity: 20.0 L (5.3/4.4 US/

Imp. gal)



2Fuel

5. Push down the cap, then turn the key to the left and remove it.

The key cannot be removed if the cap is not locked.

# **A WARNING**

Gasoline is very flammable and may cause fires if handled incorrectly.

- When refilling with gasoline, stop the engine and do not bring flame into proximity.
- Be sure to refill outdoors.
- Before opening the fuel tank cap, touch a metal section of the motorcycle body or gasoline pump to eliminate static electricity from your body. If you are statically charged the static may discharge with a spark, causing the gasoline to catch fire.
- Refill with gasoline yourself, away from other people.
- After refilling, close the fuel tank cap firmly until it makes a clicking sound.
- Wipe away any spilled gasoline with a cloth.

# NOTICE

If the engine develops some trouble like lack of acceleration or insufficient power, the cause may be due to the fuel the motorcycle uses.

In such case, try changing to a different gas station. If the situation is not improved by changing, consult your Suzuki dealer.

# **NOTICE**

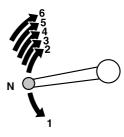
Spilled gasoline containing alcohol can damage the painted surfaces of your motorcycle.

Be careful not to spill any fuel when filling the fuel tank. Wipe spilled gasoline up immediately.

### SHIFTING GEARS

#### DESCRIPTION

This motorcycle has a 6-speed transmission, with neutral located between 1st and 2nd gear.



NOTE: When the transmission is in neutral, the green indicator light on the instrument panel will be lit. However, even though the light is illuminated, cautiously and slowly release the clutch lever to make sure that the transmission is positively in neutral.

### (Canada)

The table below shows the approximate speed range for each gear.

### Shifting up schedule

Gear position	km/h	mph
1st $\rightarrow$ 2nd	27	17
2nd $\rightarrow$ 3rd	45	29
$3rd \rightarrow 4th$	59	37
$4\text{th} \rightarrow 5\text{th}$	71	44
5th $\rightarrow$ 6th	81	50

### Shifting down schedule

Gear position	km/h	mph
$6\text{th} \rightarrow 5\text{th}$	71	44
5th $\rightarrow$ 4th	59	37
$4\text{th} \rightarrow 3\text{rd}$	45	29
$3\text{th} \rightarrow 2\text{rd}$	27	17
$2\text{th} \rightarrow 1\text{st}$	16	10

Disengage the clutch when the motorcycle speed drops below 15 km/h (9 mph).

#### **GEARSHIFT PROCEDURE**

The transmission is designed to allow the engine to operate smoothly in its normal operating speed range. When riding, shift gears to match the conditions. Do not slip the clutch to adjust motorcycle speed as doing so causes wear on the clutch. When reducing speed, shift gears down to match the engine speed.

- 1. Before starting off, stow the side stand.
- 2. Squeeze the clutch lever and operate the gearshift lever to change gears into 1st gear and move off smoothly.
- 3. Change gears according to motorcycle speed.

Return the throttle grip temporarily and squeeze in the clutch lever completely before changing gears.

Operate the gearshift lever lightly with the toes, moving it firmly until you feel the lever click.

# **A WARNING**

Downshifting when engine speed is too high can:

- cause the rear wheel to skid and lose traction due to increased engine braking, resulting in a crash; or
- force the engine to overrev in the lower gear, resulting in engine damage.

Reduce speed before downshifting.

# **A** WARNING

Downshifting while the motorcycle is leaned over in a corner may cause rear wheel skid and loss of control.

Reduce your speed and downshift before entering a corner.

# **NOTICE**

Holding the motorcycle stopped with throttle and clutch lever operation on inclines can damage the motorcycle's clutch.

Use the brakes when stopping the motorcycle on inclines.

# **NOTICE**

When the engine becomes abnormally hot, the clutch may not engage well.

If the engine becomes very hot and the clutch is not engaging well, stop the motorcycle in a safe place and let the engine cool.

### NOTICE

Incorrect gearshift operation or riding with your foot on the gearshift lever may cause damage to the engine.

- Do not perform the gear change operation with the clutch lever not firmly squeezed.
- Do not apply excessive force when using the gearshift lever.
- Do not ride with your foot on the gearshift lever.

#### NOTE:

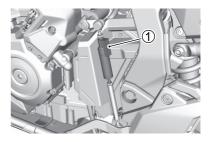
- When changing gears, move the lever firmly until you feel the lever click.
- Do not increase engine speed excessively. Doing so will negatively affect engine life.
- Do not ride at an excessive speed.
- If something appears strange while riding, have the motorcycle checked immediately by a Suzuki dealer.
- Take care when riding to ensure that engine speed does not enter the red zone.
- It is easy to enter the red zone when revving the engine or accelerating suddenly in 1st or 2nd gear, so particular care is required in such situations.
- If engine speed enters the red zone, close the throttle promptly to reduce engine speed.
- When the gear position changes to neutral while riding, the engine speed limiter functions to protect the engine and power systems, limiting engine speed.

#### What is "Quick Shift"

The "Quick Shift" is a function that assists the shift change operation during motorcycle riding.

Once the "Quick Shift" has been set on the instrument panel display, the shift change operation is available without using the throttle grip or clutch lever during riding.

When the motorcycle starts moving from the stopping status, or is stopped with the gear engaged, it is required for you to use the clutch lever.



1 Gearshift sensor

### **NOTICE**

Failure to observe the following operational rules may result in damage to gearshift sensor and related components.

- Do not disassemble gearshift sensor.
- Do not use organic solvents such as part cleaners or gasoline on gearshift sensor and related components.
- Do not subject gearshift sensor and surrounding areas to high-pressure washing.
- When any of the parts related to the gear shifting mechanism, are changed or modified, the "Quick Shift" might not operate correctly.

### NOTICE

Unlike the automatic transmission, the "Quick Shift" does not perform the shift change operation automatically. Operating the system in low gears with very high RPM may place a high load on the units such as the transmission.

Perform the shift change operation yourself according to the engine or motorcycle speed.

NOTE: The quick shift cannot handle every shift change operation.

For example, you cannot perform the quick shift in the following cases.

- When the engine rotation speed exceeds the allowable rotation speed (red zone) when gear-shifting down
- When the shift change operation is performed by gripping the clutch lever
- When the rear tires are spinning excessively

### **Quick Shift operation procedure**

- Set the MODE setting of "QS (Quick Shift)" to "ON" on the instrument panel display. For details, see "QUICK SHIFT" on page 2-58
- Squeeze the clutch lever and operate the gearshift lever to change gears into 1st gear and move off smoothly.
- When the shift change operation is to be performed after the motorcycle starts moving, do not use the clutch lever, but move the gear shift lever.
- Even when the "Quick Shift" has been set, the gear shift lever operation procedure is not changed from that before the setting. If the shift change is to be performed regardless of the setting of "Quick Shift", move the gear shift lever securely until the end of its travel.
- When the shift change operation is to be performed, the motorcycle adjusts the engine speed according to the situation at that time, so the throttle grip operation is not required.

- The "Quick Shift" is activated when the engine speed exceeds 2,000 r/min at shift up, 1,700 r/min at shift down.
- Even when the shift change operation is performed continuously using the "Quick Shift", the shift change operation should be done correctly step by step.
- When the shift change operation is performed without clutch lever squeezed and with the throttle opening angle kept constant, the "Quick Shift" operation can be smoothly performed.

4. When the motorcycle is to be stopped, stop it with the clutch lever squeezed.

### **NOTICE**

When the shift change operation is performed in the following cases, without using the clutch lever, the engine or drive system might be damaged. In the following cases, use the clutch lever.

- The "Quick Shift" has been set to <OFF>.
- Engine speed is at or less than the predetermined speed

NOTE: The "Quick Shift" downshift may not operate when the engine temperature is low. If this happens, start the engine, warm it up and try again. If the "Quick Shift" downshift still does not work, contact your Suzuki dealer.

#### **BRAKE LEVER**

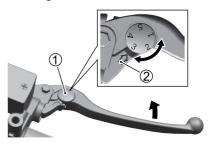
#### **DESCRIPTION**

The front brake is applied by squeezing the brake lever gently toward the throttle grip. This motorcycle is equipped with a disc brake system and excessive pressure is not required to slow the machine down properly. The brake light will be lit when the lever is squeezed inward.

The space between the brake lever and grip can be adjusted to 5 settings.

#### **ADJUSTMENT**

- Push the brake lever forward and rotate the adjuster 1 to the desired position.
- 2. Align the numbers on the adjuster with the "Alignment mark" ②.



#### NOTE:

- Adjust by aligning the protuberances on the lever with the indentations on the adjuster.
- The adjuster is set to the 3rd position at the factory.

### **A WARNING**

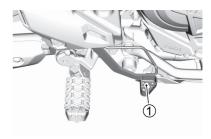
Adjusting the brake lever position while riding may result in a crash.

Adjust the brake lever position only while stopped.

#### REAR BRAKE PEDAL

#### DESCRIPTION

Stepping on the rear brake pedal ① applies the rear brake. The brake light comes on at the same time.



### If necessary, see:

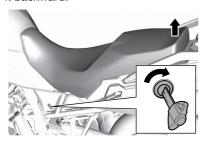
- REAR BRAKE PEDAL ADJUSTMENT ( 3-52)
- REAR BRAKE LIGHT SWITCH ( 3-53)

### **SEAT**

### **SEAT AND SEAT LOCK**

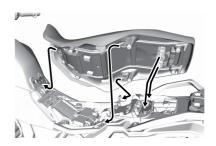
#### Removal

- To remove the seat, insert the ignition key into the seat lock and turn it clockwise.
- Raise the rear end of the seat and slide it backward.



#### Installation

- Slide the seat hooks into the seat hook retainers.
- 2. Push down firmly until the seat snaps into the locked position.



#### NOTE:

- Lift up the seat gently and check that it is locked.
- Care is required, because if the seat is locked with the key placed underneath it, you will be unable to retrieve the key.

# **WARNING**

If the seat is not attached correctly it may move, interfering with riding.

Lock the seat firmly in the correct position.

#### SUSPENSION ADJUSTMENT

#### DESCRIPTION

The standard settings for both the front and rear suspensions are selected to meet various riding conditions such as low to high motorcycle speed and light to heavy load on the motorcycle. The suspension settings can be adjusted and fine-tuned according to your preference.

### NOTICE

Turning adjusters by force can damage the suspensions.

Do not turn adjusters beyond their natural limits.

#### FRONT SUSPENSION

# **A** WARNING

Unequal suspension adjustment can cause poor handling and instability.

Adjust the right and left front forks to the same setting.

### **NOTICE**

When a dirty front fork is adjusted as it is, oil leakage might occur due to a sticking adjuster or seal damage.

Before adjustment, wash the dirt completely off from the front fork.

### Spring Pre-load Adjustment

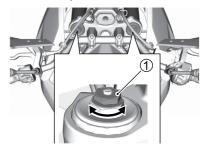
Adjust the strength of the springs to suit the road surface and the number of passengers. Rotate adjusters ① to adjust the spring strength.

- Clockwise: Stronger
- Counterclockwise: Weaker

Operate the adjusters as follows to set the default setting.

- 1. Rotate the adjuster counterclockwise until it stops.
- 2. Rotate 6 turns clockwise.

NOTE: Adjust both the right and left adjusters to the same position.



### **Damping Force Adjustment**

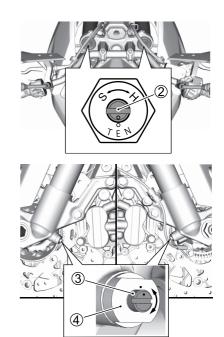
The rebound and compression damping force can be individually adjusted by turning the respective adjusters.

- The rebound damping force adjusters 2 are located at the top of the front suspension.
- The compression damping force adjusters 3 are located at the bottom of the front suspension.

To adjust the damping force, set the adjuster to the standard setting first and then adjust the adjuster to the desired position.

#### NOTE:

- Do not loosen the adjuster base 4, or front fork oil will ooze through the adjuster base.
- Adjust both the right and left to the same position.



# <Rebound damping force standard setting>

To set the rebound damping force adjuster to the standard position, turn the adjuster clockwise until it stops and then turn it counterclockwise 1-1/2 turns.

- Turn the adjuster clockwise from the standard position to stiffen the damping force.
- Turn the adjuster counterclockwise from the standard position to soften the damping force.

# <Compression damping force standard setting>

To set the compression damping force adjuster to the standard position, turn the adjuster clockwise until it stops and then turn it counterclockwise 2-1/4 turns.

- Turn the adjuster clockwise from the standard position to stiffen the damping force.
- Turn the adjuster counterclockwise from the standard position to soften the damping force.

#### REAR SUSPENSION

# **WARNING**







This unit contains high-pressure nitrogen gas.

Mishandling can cause explosion.

- · Keep away from fire and heat.
- Read owner's manual for more information.

NOTE: Ask your Suzuki dealer to dispose of the rear suspension unit.

### NOTICE

Forcing the adjuster to turn may damage the suspension.

Do not rotate the adjuster beyond the limit.

### **NOTICE**

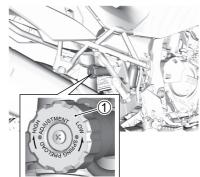
Adjusting the rear shock absorber while it is dirty may cause sand to enter the adjuster, or make the oil leak by damaging the oil seal.

Wash the adjuster before adjusting it to remove sand and other dirt sufficiently.

### **Spring Pre-load Adjustment**

Adjust the strength of the springs to suit the road surface and the number of passengers. Rotate adjuster knob ① to adjust the spring strength.

- Clockwise ("HIGH" side): Stronger
- Counterclockwise ("LOW" side): Weaker



### <Spring pre-load standard setting>

Operate the adjuster knob as follows to set the default setting.

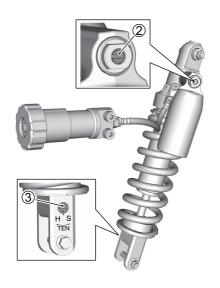
- Rotate the knob to the "LOW" side until it stops.
- Rotate the knob to the "HIGH" side until the first click. (Weakest position at 0 clicks)
- Rotate the knob to the "HIGH" side until the twelfth click.
- Default setting (one passenger): 12 clicks
- Reference setting (two passengers): 28 clicks (default setting plus16 clicks to the "HIGH" side)

### **Damping Force Adjustment**

The rebound and compression damping force can be individually adjusted by turning the respective adjusters.

- The compression damping force adjusters ② are located at the top of the rear suspension.
- The rebound damping force adjusters ③ are located at the bottom of the rear suspension.

To adjust the damping force, set the adjuster to the standard setting first and then adjust the adjuster to the desired position.



# <Rebound damping force standard setting>

To set the rebound damping force adjuster to the standard position, turn the adjuster clockwise until it stops and then turn it counterclockwise 1-3/4 turns.

- Turn the adjuster clockwise from the standard position to stiffen the damping force.
- Turn the adjuster counterclockwise from the standard position to soften the damping force.

# <Compression damping force standard setting>

To set the compression damping force adjuster to the standard position, turn the adjuster clockwise until it stops and then turn it counterclockwise 1-1/2 turns.

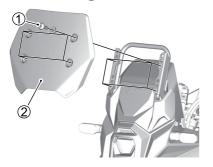
- Turn the adjuster clockwise from the standard position to stiffen the damping force.
- Turn the adjuster counterclockwise from the standard position to soften the damping force.

### WINDSHIELD

#### **HEIGHT ADJUSTMENT**

The windshield height can be adjusted to 3 positions. To change the windshield height, follow the procedure below.

1. Remove the bolts ① and then remove the windshield ②.



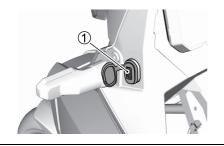
2. Move the windshield nuts ③ up or down to the desired windshield position.



Reinstall the windshield in the reverse order of the removal.

### **USB SOCKET**

A USB socket ① is provided at the left side of the Instrument panel. It can provide up to 5 V output voltage and 2 A maximum current. Please use the connected device at your own risk.



# **NOTICE**

Using the USB socket while the engine is idling or stopped may drain the battery.

Be aware of battery drain when using the USB socket.

### NOTICE

Intrusion of water or foreign matter may cause damage. Paying attention to the following points.

- Do not use the product in rainy weather or when washing the motorcycle.
- When the product is not used, attach the cap to prevent foreign matter from entering.
- Even with the cap attached, do not spray water strongly when washing the motorcycle.

### NOTE:

- Make sure that the cables are not pinched or tangled so as not to interfere with driving operations.
- Do not use device that exceeds the rating as it may cause the fuse to blow.

### **REAR CARRIER**

The rear carrier ① load capacity is 10 kg (22 lbs).

# **WARNING**

Operating the motorcycle overloaded will decrease riding stability and can lead to loss of control.

Do not load the motorcycle more than load capacity.





# **INSPECTION AND MAINTENANCE**

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# INSPECTION AND MAINTENANCE

### **DESCRIPTION**

Regular inspection and maintenance are essential to riding your motorcycle safely, and to ensuring that it lasts a long time. The following simple inspections and maintenance tasks that are normally carried out frequently.

Carry out periodic inspections even when you do not use the motorcycle for an extended period. Inspect your motorcycle carefully when you begin using it again after an extended period of non-use.

Follow the guidelines in the chart. The intervals between periodic services in kilometers, miles and months are shown. At the end of each interval, be sure to perform the maintenance listed.

# **A** WARNING

Improper maintenance or failure to perform recommended maintenance can lead to a crash.

Keep your motorcycle in good condition. Ask your Suzuki dealer or a qualified mechanic to perform the maintenance items marked with an asterisk (\*). You may perform the unmarked maintenance items by referring to the instructions in this section, if you have mechanical experience. If you are not sure how to do any of the jobs, ask your Suzuki dealer to do the maintenance.

# **A WARNING**

Inspection with the engine running is dangerous, as your hands or clothing may become caught in moving engine parts, resulting in serious injury.

Turn the engine off when inspecting anything other than the lights, engine stop switch, and throttle.

# **WARNING**

Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

# **WARNING**

For inspections while riding, maintain sufficient awareness of the traffic situation in the vicinity.

Reduce speed to less than normal, and perform the inspection in an area where there is little traffic.

## **A WARNING**

Performing maintenance beyond your competence without specialist knowledge may cause crashes or breakdowns.

For safety, only perform maintenance that is within your knowledge and area of competence. Consult a Suzuki dealer regarding anything difficult.

## **A WARNING**

Because of the presence of gasoline and flammable oils, there is a risk of fire if there are any ignition sources in close proximity when performing inspection and maintenance.

Do not smoke or bring a flame close to the motorcycle when performing maintenance.

## **A** CAUTION

The exhaust pipe, muffler and the engine become hot when the engine is running. Touching them before they cool down may cause burns.

When performing maintenance on parts close to the exhaust pipe, muffler or engine, wait until they have cooled down sufficiently to touch before starting maintenance.

### NOTICE

Performing maintenance with your motorcycle in an unstable location may result in the motorcycle falling over during the process.

Perform maintenance in a location with a flat solid surface.

## **NOTICE**

Servicing electrical parts with the ignition switch in the "ON" position can damage the electrical parts when the electrical circuit is shorted.

Turn off the ignition switch before servicing electrical parts to avoid short-circuit damage.

### NOTICE

Poorly-made replacement parts can cause your motorcycle to wear more quickly and may shorten its useful life.

When replacing parts on your vehicle, use only genuine Suzuki replacement parts or their equivalent.

#### NOTE:

- The MAINTENANCE CHART specifies the minimum requirements for maintenance. If you use your motorcycle under severe conditions, perform maintenance more often than shown in the chart. If you have any questions regarding maintenance intervals, consult your Suzuki dealer or a qualified mechanic.
- Recycle or properly dispose of used oil.

### **MAINTENANCE CHART**

Interval: This interval should be judged by number of months or odometer reading, whichever comes first.

	Interval	months	2	12	24	36	48
		km	1000	6000	12000	18000	24000
Item		miles	600	3750	7500	11250	15000
Air cleaner element	polyester foam element		C	lean every	6000 km	(3750 miles	;)
(∷₹ 3-18)	non woven element		_	ı		R	I
* Exhaust pipe bolts a	nd muffler bolts		T	-	Т	-	T
* Valve clearance			_	-	-	-	ı
* Spark plugs			_	ı	R	I	R
* Fuel hose			-	ı		I	_
i del 1103e			*Replace every 4 years (Except for Canada)				
* Evaporative emission	n control system (if equipped)		ı	1		_	_
Engine oil ( 3-25)			R	R	R	R	R
Engine oil filter (	3-25)		R	-	-	R	-
* PAIR (air supply) sys	stem		_	-	ı	-	_
* Throttle valve synchr	onization		_	-	ı	-	_
* Engine coolant (Elue)  * Suzuki Super Long Life Coolant" (Blue)  *Suzuki Long Life Coolant" (Green) or an engine coolant other than "Suzuki Super Long Life Coolant" (Blue)		Replace every 4 years or 48000 km (30000 miles)				00 miles)	
		JKI <sup>′</sup>	ı	ı	R	_	R
(	Radiator hose ( 3-40)		ı	İ	ĺ	ĺ	
Clutch cable play ( 3-46)			_	İ	İ	İ	ĺ

	Interval	months	2	12	24	36	48
		km	1000	6000	12000	18000	24000
Item		miles	600	3750	7500	11250	15000
Drive chain (CF 2.41)			I	I			I
Drive chain ( 3-41)			Clean and lubricate every 1000 km (600 miles)				
* Brakes ( 3-47)			ı	I	ı	ı	ı
Brake fluid ( 3-48)			_	- 1	ı	ı	ı
brake fluid (L.3 5-46)			*Replace every 2 years				
Duality have (2003 0 47)			-	!	ı		I
Brake hose ( 3-47)			*Replace every 4 years				
Tires ( 3-56)			-	!	ı		I
* Steering			1	-		-	ı
* Front forks		-	-	ı	-	ı	
* Rear suspension		_	-	1	-	I	
* Chassis bolts and nuts		T	Т	T	Т	Т	
Lubrication ( 3-12)		Lubricate every 1000 km (600 miles)					
* Spoke wheel			I	I	ı		I

NOTE: I= Inspect and clean, adjust, replace or lubricate as necessary; R= Replace; T= Tighten

### (For Europe and Oceania countries)

	Interval	months	2	12	24	36	48		
		km	1000	12000	24000	36000	48000		
Item		miles	600	7500	15000	22500	30000		
Air cleaner element	polyester foam element		C	Clean every 12000 km (7500 miles)					
(◯ℱ 3-18)	non woven element		_	I	ı	R	I		
* Exhaust pipe bolts a	nd muffler bolts		Т	-	Т	-	Т		
* Valve clearance			Ins	spect every	24000 km	(15000 mile	es)		
* Spark plugs			_	R	R	R	R		
* Fuel hose			_	I	ı	ı	ı		
i del llose			*Replace every 4 years						
* Evaporative emission	n control system (if equipped)		_	-	ı	_	ı		
Engine oil ( 3-25)			R	R	R	R	R		
Engine oil filter (	3-25)		R	-	R	_	R		
* PAIR (air supply) sys	stem		-	-	I	_	I		
* Throttle valve synchr	ronization		I	I	ı	ı	I		
"SUZUKI SUPER LONG LIFE COOLANT" (Blue)		I	-	ı	ı	R			
"SUZUKI LONG LIFE COOLANT" (Green or an engine coolant other than "SUZUKI SUPER LONG LIFE COOLANT" (Blue)		SÚZUKI	ı	_	R	ı	R		
Radiator hose (	Radiator hose ( 3-40)		ı	Ī	İ	İ	I		
Clutch cable play ( 3-46)		_	I	İ	İ	Ī			

	Interval	months	2	12	24	36	48
		km	1000	12000	24000	36000	48000
Item		miles	600	7500	15000	22500	30000
Drive chain ( 3-41)				I	I		I
Drive chain (L.3' 3-41)			Clean and lubricate every 1000 km (600 miles)				
* Brakes ( 3-47)			ı	I	I	ı	I
Brake fluid ( 3-48)			Inspect every year or 6000 km (3750 miles)				
Diake lidid (L.3 5-40)			*Replace every 2 years				
Brake hose (CF 3-47)			-	I	I	I	I
			*Replace every 4 years				
Tires ( 3-56)		_	I	I	ı	I	
* Steering		ı	ı	I	ı	I	
* Front forks		-	ı	I	ı	I	
* Rear suspension		-	ı	I		I	
* Chassis bolts and nuts		T	Т	Т	T	Т	
Lubrication ( 3-12)		Lubricate every 1000 km (600 miles)				s)	
* Spoke wheel			I	ı	I	ı	ı

NOTE: I and Inspect= Inspect and clean, adjust, replace or lubricate as necessary; R= Replace; T= Tighten

#### INSPECTION BEFORE RIDING

Check the condition of the motorcycle to help make sure that you do not have mechanical problems or get stranded somewhere when you ride. Be sure your motorcycle is in good condition for the personal safety of the rider, passenger, and protection of the motorcycle.

# **A** WARNING

If you operate this motorcycle with improper tires or improper or uneven tire pressure, you may lose control of the motorcycle. This will increase your risk of a crash.

Always use tires of the size and type specified in this owner's manual. Always maintain proper tire pressure as described in the INSPECTION AND MAINTENANCE section.

# **A** WARNING

Failure to inspect your motorcycle before riding and to properly maintain your motorcycle increases the chances of a crash or equipment damage.

Always inspect your motorcycle each time you use it to make sure it is in safe operating condition. Refer to the INSPECTION AND MAINTENANCE section in this owner's manual.

# **A** WARNING

Checking maintenance items when the engine is running can be hazardous. You could be severely injured if your hands or clothing get caught in moving engine parts.

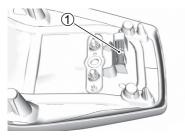
Shut the engine off when performing maintenance checks, except when checking the lights, engine stop switch, and throttle.

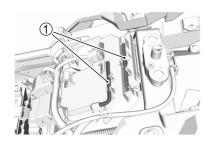
WHAT TO CHECK	CHECK FOR:
Steering	Smoothness     No restriction of movement     No play or looseness
Throttle	Smooth operation and positive return of the throttle grip to the closed position
Clutch ( 2-110)	Correct lever play     Smooth and progressive action
Brakes (CF 2-108, 2- 109, 3-47)	Proper pedal and lever operation Fluid level in the reservoir to be above "LOWER" line Correct pedal and lever play No "sponginess" No fluid leakage Brake pads not worn down to the limit line
Suspension ( 2-111)	Smooth movement
Fuel ( 2-41)	Enough fuel for the planned distance of operation
Drive chain ( 3-41)	Correct tension or slack     Adequate lubrication     No excessive wear or damage

	<u>.                                      </u>
Tires (☐₹ 3-56)	Correct pressure     Adequate tread depth     No cracks or cuts
Engine oil ( 3-25)	Correct level
Cooling system ( 3-36)	Proper coolant level     No coolant leakage
Lighting (2-20, 2-85)	Operation of all lights and indicators
Horn ( 2-86)	Correct function
Engine stop switch (CF 2-87)	Correct function
Side stand/Ignition interlock system ( 2-95)	Proper operation
Windshield ( 2-118)	Good visibility
Spoke wheels ( 3-61, 3-61)	Spoke tension     Check for damage

### **TOOLS**

A tool kit 1 is supplied and located under the seat.





#### LUBRICATION

#### **LUBRICATION POINTS**

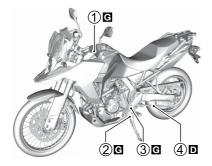
Proper lubrication is important for smooth operation and long life of each working part of your motorcycle and also for safe riding. It is good practice to lubricate the motorcycle after a long rough ride and after getting it wet it in the rain or after washing it.

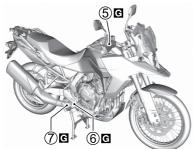
## **NOTICE**

Lubricating electrical switches can damage the switches.

Do not apply grease or oil to electrical switches.

### Major lubrication points are indicated below.





- G....Grease
- ■..... Drive chain lubricant
- 1.....Clutch lever pivot
- 2..... Side stand pivot and spring hook
- 3..... Gearshift lever pivot and footrest pivot
- 1..... Drive chain
- 5..... Brake lever pivot
- ⑥.....Brake pedal pivot and footrest pivot
- (Brazil)

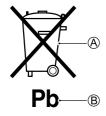
### **BATTERY**

#### **DESCRIPTION**

The battery is a sealed-type battery and requires no maintenance. Have your dealer check the battery's state of charge periodically.

The crossed-out wheeled bin symbol (A) located on the battery label indicates that a used battery should be collected separately from ordinary household waste.

The chemical symbol of "Pb"  $\widehat{\mathbb{B}}$  indicates the battery contains more than 0.004% lead.



By ensuring the used battery is disposed of or recycled correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of the battery. The recycling of materials will help to conserve natural resources. For more detailed information about disposing or recycling of the used battery, consult your Suzuki dealer.

#### NOTE:

- For charging a sealed-type battery, use a battery charger applicable to a sealedtype battery.
- If you cannot charge the battery, consult your authorized Suzuki dealer.
- Select the same type MF battery when replacing the battery.
- Recharge the battery once a month if the motorcycle is not used for a long time.

# **A WARNING**

The battery contains dilute sulfuric acid, which may cause blindness or severe burns.

Do not tip the battery when removing it. When working close to the battery, wear gloves and appropriate protective equipment to protect the eyes. If sulfuric acid enters your eyes, wash them immediately in copious amounts of water for at least 15 minutes and then consult a doctor. If you ingest sulfuric acid, drink copious amounts of water immediately and then consult a doctor. If sulfuric acid comes into contact with your skin or clothes, remove your clothes and wash them immediately in copious amounts of water. Store in a location out of the reach of children

# **A WARNING**

Battery posts, terminals, and related accessories contain lead and lead compounds. Lead is harmful to your health if it gets into your blood stream.

Wash hands after handling any parts containing lead.

# **WARNING**

Batteries produce flammable hydrogen gas which can explode if exposed to flames or sparks.

Keep flames and sparks away from the battery. Never smoke when working near the battery.

# **A WARNING**

Wiping the battery with a dry cloth can cause a static electricity spark, which can start a fire.

Wipe the battery with a damp cloth to avoid static electricity build up.

## **NOTICE**

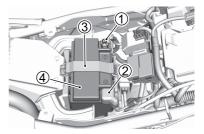
Exceeding the maximum charging rate for the battery can shorten its life.

Never exceed the maximum charging rate for the battery. Consult a Suzuki dealer if anything is unclear.

#### REMOVING

To remove the battery, follow the procedure below:

- 1. Set the ignition switch to "OFF".
- 2. Remove the seat. ( 2-110)
- 3. Disconnect the negative (-) terminal ①.
- 4. Disconnect the positive (+) terminal 2.
- 5. Remove the band 3.
- Remove the battery 4.



Wipe any white powder adhering to the terminal section away with warm water. If there is severe corrosion, buff it off with sandpaper.

#### NOTE:

- When removing battery cables, be sure to set the ignition switch to "OFF" and remove the negative (-) side first. When attaching battery cables, attach the positive (+) side first.
- Tighten so that there is no slackness in the terminal section, and attach the positive (+) terminal cover firmly.
- When replacing the battery, consult a Suzuki dealer.

#### INSTALLATION

To install the battery:

- After cleaning, apply a thin layer of grease to the terminal section, install the battery in the reverse order of removal.
- 2. Connect the battery terminals securely and reinstall the cap.

NOTE: Be sure to reset the engine rpm indicator in the instrument panel when the battery terminals are reconnected.

### NOTICE

Reversing the battery lead wires can damage the charging system and the battery.

Always attach the red lead to the (+) positive terminal and the black (or black with white tracer) lead to the (-) negative terminal.

### **SPARK PLUG**

#### DESCRIPTION

For the spark plug check or replacement procedure, consult with your Suzuki dealer or a qualified mechanic.

#### AIR CLEANER

#### DESCRIPTION

The air cleaner element must be kept clean to provide good engine power and gas mileage. If you use your motorcycle under normal low-stress conditions, you should service the air cleaner at the intervals specified. If you ride in dusty, wet or muddy conditions, you will need to inspect the air cleaner element much more frequently.

Use the following procedure to remove the element and inspect it.

# **A WARNING**

Operating the engine without the air cleaner element in place can be hazardous. A flame can spit back from the engine to the air intake box without the air cleaner element to stop it. Severe engine damage can also occur if dirt enters the engine due to running the engine without the air cleaner element.

Never run the engine without the air cleaner element in place.

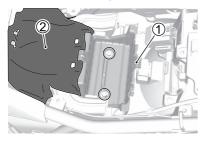
### NOTICE

Failure to inspect the air cleaner element frequently if the vehicle is used in dusty, wet, or muddy conditions can damage your motorcycle. The air cleaner element can become clogged under these conditions, and engine damage may result.

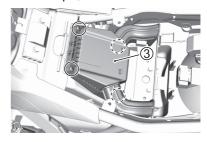
Always inspect the air cleaner element after riding in severe conditions. Replace the element as necessary. If water gets in the air cleaner case, immediately clean the element and the inside of the case.

#### **REMOVING**

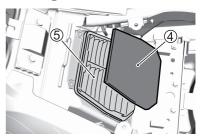
- 1. Remove the seat. ( 2-110)
- 2. Remove the battery. ( 3-14)
- 3. Remove the bolts and battery holder ①.
- 4. Remove the sheet 2.



5. Remove the screws and pull up the air cleaner cap ③.



6. Remove the pre-filter ④ and air cleaner element ⑤.



#### **INSPECTION and CLEANING**

### Air cleaner element (non woven)

- Face the air cleaner element fabric side down and tap it lightly to remove dust and debris.
- Carefully blow air from the mesh side to blow dust off. Replace the air cleaner element if it is damaged.

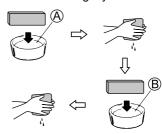
NOTE: Always apply air pressure to the mesh side of the air cleaner element only. If you apply air pressure to the fabric side, dirt will be forced into the pores of the element, restricting the air flow through the element.



### Pre-filter (polyester foam)

Wash the polyester foam element as follows:

- Fill a washing pan of a proper size with nonflammable cleaning solvent A. Immerse the element in the solvent and wash it clean.
- Squeeze the solvent off the washed element by pressing it between the palms of both hands. Do not twist and wring the element, or it will develop fissures.
- Immerse the element in a pool of motor oil ®, and squeeze the oil off the element to make it slightly wet with the oil.



# **WARNING**

New and used oil and solvent can be hazardous. Children and pets may be harmed by swallowing new or used oil or solvent. Repeated, prolonged contact with used engine oil may cause skin cancer. Brief contact with used oil or solvent may irritate skin.

- Keep new and used oil and solvent away from children and pets.
- Wear a long-sleeve shirt and waterproof gloves.
- Wash with soap if oil or solvent contacts your skin.

NOTE: Recycle or properly dispose of used oil and solvent.

#### INSTALLATION

### **NOTICE**

A torn air cleaner element will allow dirt to enter the engine and can damage the engine.

Replace the air cleaner element with a new one if it is torn. Carefully examine the air cleaner element for tears during cleaning.

### **NOTICE**

Failure to position the air cleaner element properly can allow dirt to bypass the air cleaner element. This will cause engine damage.

Be sure to properly install the air cleaner element.

### NOTICE

If the pre-filter ② is not properly installed when installing the air cleaner cap ①, foreign matter may enter the engine and cause damage.

Install the pre-filter so that it is not caught between the air cleaner cap.



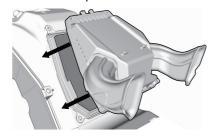
Install by performing the removal procedure in reverse, paying attention to the following points.

Position pre-filter ① as shown in the figure.



2 Air cleaner element

 Attach the air cleaner cap perpendicular to the filter surface, so that the pre-filter does not shift position.



#### AIR CLEANER DRAIN PLUG CLEANING

### Removing

Every year, check to see if water or oil has accumulated in the air cleaner drain tube attached to the bottom of the air cleaner box. If dirt or water has accumulated, remove the air cleaner drain tube ① and then remove any accumulated dirt and water.



### Installation

Attach the air cleaner drain tube firmly.

### **ENGINE OIL**

#### DESCRIPTION

Engine life depends on oil amount and quality. Daily oil level checks and periodic changes are two of the most important maintenance items to be performed.

NOTE: Before adding, draining, or replacing engine oil, read cautions on the engine oil container and instructions in this section.

### **SELECTING THE ENGINE OIL**

Suzuki recommends the use of SUZUKI Genuine Oil or Equivalent Engine Oil.

#### < SUZUKI Genuine Oil >

Standard	SAE	JASO
ECSTAR R9000	10W-40	MA
ECSTAR R7000	10W-40	MA
ECSTAR R5000	10W-40	MA

### < Equivalent Engine Oil >

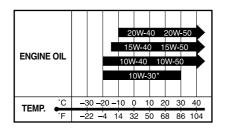
Equivalent Engine Oil means engine oil that meets the following standards.

SAE	API	JASO
10W-40	SJ, SL, SM or SN	MA (MA1, MA2)

API: American Petroleum Institute JASO: Japanese Automobile Standards Organization

### SAE engine oil viscosity

If SAE 10W-40 engine oil is not available, select an alternative according to the following chart.



\*USE ONLY SJ or SL.

### **NOTICE**

Mixing oils of different makes and grades may alter the quality of the oil and cause a breakdown.

Do not mix oils or use low-quality oil.

### **Energy conserving**

Suzuki does not recommend the use of "ENERGY CONSERVING" or "RESOURCE CONSERVING" oils. Some engine oils which have an API classification of SJ, SL, SM or SN have an "ENERGY CONSERVING" or "RESOURCE CONSERVING" indication in the API classification donut mark. These oils can negatively affect engine life and clutch performance.

API SJ, SL, SM or SN



riecommende

API SJ. SL or SM



API SN

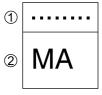


Not recommended

#### **JASO T903**

The JASO T903 standard is an index to select engine oils for 4-stroke motorcycle and ATV engines. Motorcycle and ATV engines lubricate clutch and transmission gears with engine oil. JASO T903 specifies performance requirements for motorcycle and ATV clutches and transmissions.

There are two classes, MA(MA1, MA2) and MB. For example, the oil container shows the MA classification as follows.



- 1 Code number of oil sales company
- 2 Oil classification

#### CHECKING THE ENGINE OIL LEVEL

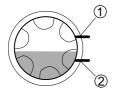
Check the engine oil level as follows:

- Place the motorcycle on level ground on the side stand.
- Start the engine and allow it to idle for three minutes.
- 3. Stop the engine and wait three minutes on the side stand.
- 4. Stand the motorcycle upright, and check whether the surface of the engine oil in the sight glass on the right side of the engine is between F (upper level) ① and L (lower level) ②.

If the oil is above the F (upper level) ① or below the L (lower level) ②, adjust the oil level to be between F and L.

- If the oil is below the L (lower level) 2, add additional oil.
- If the oil is above the F (upper level)

   day drain oil to adjust the level. Consult a Suzuki dealer for information on how to drain oil.



# **A** CAUTION

The exhaust pipe, muffler and the engine become hot when the engine is running and after it has stopped. Touching them before they cool may cause burns.

When performing maintenance on nearby parts, wait until the exhaust pipe, muffler and engine have cooled down sufficiently to touch before starting maintenance.

### **NOTICE**

Operating the motorcycle with too little or too much oil can damage the engine.

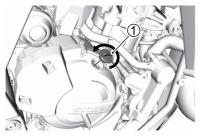
Place the motorcycle on level ground. Check the oil level in the engine oil inspection window before each use of the vehicle. Be sure the engine oil level is always above the "L" (low) line and not higher than the "F" (full) line.

NOTE: If you shake the motorcycle before checking the oil level, you may not be able to check the correct amount.

#### ADD THE ENGINE OIL

Follow the following procedure to add additional engine oil.

- 1. Idle the engine for three minutes in a flat area, and then stop the engine.
- 2. Wait three minutes, then remove the oil filler cap ③.



- Hold the motorcycle upright, and add oil so that the surface of the engine oil is between F (upper level) ① and L (lower level) ②.
- 4. Attach the cap 3 firmly.

# **A WARNING**

Children and pets may be harmed by swallowing new or used oil.

Keep new and used oil and used oil filters away from children and pets.

# **A** WARNING

Repeated, prolonged contact with used engine oil has caused skin cancer in animal tests. Brief contact with oil may irritate skin.

To minimize your exposure to used oil, wear a long-sleeve shirt and moisture-proof gloves (such as dishwashing gloves) when changing oil. If oil contacts your skin, wash thoroughly with soap and water. Launder any clothing or rags if wet with oil. Recycle or properly dispose of used oil and filters.

### NOTICE

If any dirt enters from the oil filler opening, it may damage the engine.

Check that there is no dust, mud, or foreign matter adhering to the oil container, and ensure that foreign material does not enter via the oil filler opening.

NOTE: Wipe up any spilled oil completely.

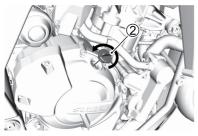
# CHANGING THE ENGINE OIL AND FILTER

Change the engine oil and oil filter at the scheduled times. The engine should always be warm when the oil is changed so the oil will drain easily. The procedure is as follows:

- Place the motorcycle.
- 2. Remove the bolts and under cover 1.



3. Remove the oil filler cap ③.



4. Remove the drain plug ③ with gasket ④ from the bottom of the engine and drain the engine oil into a drain pan.



### **A** CAUTION

Hot engine oil and exhaust pipes can burn you.

Wait until the oil drain plug and exhaust pipes are cool enough to touch with bare hands before draining oil.

### NOTICE

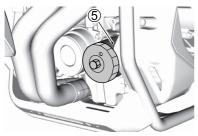
Turning the engine while draining the engine oil will cause a reduced coating of parts and adversely affect the engine.

Do not use the electric starter switch during engine oil replacement.

#### NOTE:

- Recycle or properly dispose of used oil.
- Before starting the work, check that there is not any dust, mud, or foreign object inside the oil container or on the oil filter mounting surface.

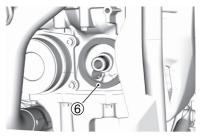
 Turn the oil filter ⑤ counterclockwise and remove it with a Suzuki "cap type" oil filter wrench or a "strap type" filter wrench of the proper size.



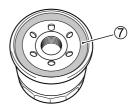


Available from Suzuki dealer Oil filter wrench (Part No. 09915-40620)

Wipe off the mounting surface 6 on the engine where the new filter will be seated with a clean rag.



7. Smear a little engine oil around the rubber gasket ⑦ of the new oil filter.



 Screw the new filter on by hand until the filter gasket contacts the mounting surface (small resistance will be felt).

### **NOTICE**

Failure to use an oil filter with the correct design and thread specifications can damage your motorcycle's engine.

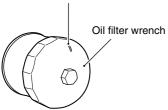
Be sure to use a genuine Suzuki oil filter or an equivalent one designed for your motorcycle.

NOTE: To tighten the oil filter properly, it is important to accurately identify the position at which the filter gasket first contacts the mounting surface.

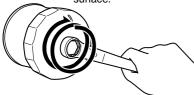
 Mark the top dead center position on the "cap type" filter wrench or on the oil filter. Use an oil filter wrench to tighten the filter 2 turns or to specified torque.

Oil filter tightening torque: 20 N·m (2.0 kgf-m, 15.0 lbf-ft)

### Mark top dead center

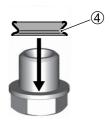


In the position at which the filter gasket first contacts the mounting surface.



Tighten the filter 2 turns or to specified torque.

 Replace the drain plug gasket 4 with a new one.



Reinstall the drain plug 3 and gasket 4.
 Tighten the plug securely with a torque wrench.

Drain plug tightening torque: 23 N·m (2.3 kgf-m, 17.0 lbf-ft)



12. Pour 3500 ml (3.7/3.1 US/Imp. qt) of new engine oil through the filler hole and install the filler cap. Be sure to always use the specified engine oil described in the "SELECTING THE ENGINE OIL" section on page 3-25.

NOTE: About 3000 ml (3.2/2.6 US/Imp. qt) of oil will be required when changing oil only.

### NOTICE

Engine damage may occur if you use oil that does not meet Suzuki's specifications.

Be sure to use the oil specified in the SELECTING THE ENGINE OIL section.

- 13. Start the engine (while the motorcycle is outside on level ground) and allow it to idle for three minutes.
- 14. Turn the engine off and wait approximately three minutes. Recheck the oil level in the engine oil inspection window while holding the motorcycle upright. If it is lower than the "L" line, add oil until the oil level is between the "L" line and the "F" line. Inspect the area around the drain plug and oil filter for leaks.

NOTE: If you do not have a proper oil filter wrench, have your Suzuki dealer perform this service.

15. Reinstall the under cover and bolts.

### **ENGINE COOLANT**

#### DESCRIPTION

Coolant must be changed regularly. Replace it at appropriate intervals according to the maintenance schedule. Consult a Suzuki dealer regarding coolant replacement.

#### **ABOUT THE ENGINE COOLANT**

Engine coolant performs as a rust inhibitor and water pump lubricant as well as an antifreeze solution. Therefore engine coolant should always be used even though the atmospheric temperature in your area does not go down to the freezing point.

Use "SUZUKI SUPER LONG LIFE COOL-ANT" or "SUZUKI LONG LIFE COOLANT". If "SUZUKI SUPER LONG LIFE COOLANT" and "SUZUKI LONG LIFE COOLANT" are not available, use a glycol-based antifreeze compatible with an aluminum radiator mixed with distilled water only at the ratio of 50:50. Solution capacity (total): 1870 ml (2.0/1.6 US/Imp. qt)

50%	Water	935 ml (1.0/0.8 US/Imp. qt)
	Coolant	935 ml (1.0/0.8 US/Imp. qt)

### Suzuki super long life coolant (Blue)

"SUZUKI SUPER LONG LIFE COOLANT" is pre-mixed to the proper ratio. Add only "SUZUKI SUPER LONG LIFE COOLANT" if the coolant level drops. It is not necessary to dilute "SUZUKI SUPER LONG LIFE COOLANT" when replacing coolant.

# **A WARNING**

Making a mistake when handling coolant may negatively affect both your body and the motorcycle.

Before beginning, read the cautions written on the container carefully. Consult a Suzuki dealer if anything is unclear.

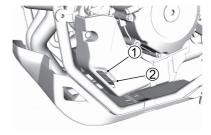
### NOTE:

- Before working with coolant, read cautions on the coolant container and instructions in this section.
- A 50% mixture will protect the cooling system from freezing at temperatures above -31°C (-24°F). If the motorcycle is to be exposed to temperature below -31°C (-24°F), this mixing ratio should be increased up to 55% (-40°C/-40°F) or 60% (-55°C/-67°F) coolant. The mixing ratio should not exceed 60% coolant.

#### CHECKING THE COOLANT LEVEL

When the engine is cold, carry out an inspection according to the following procedure.

- 1. Park on a level surface.
- Hold the motorcycle upright, and check that the coolant level is between F (upper level) ① and L (lower level) ②.



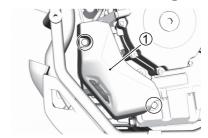
#### NOTE:

- A marked decrease in coolant may indicate leaks in the radiator body or hoses.
   Have your motorcycle inspected by a Suzuki dealer.
- If the engine coolant reservoir is empty, check the radiator coolant level.
- Replenish with coolant. Do not use well water or natural water.
- Consult a Suzuki dealer regarding coolant replacement.

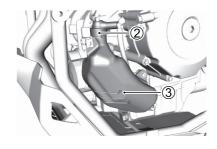
#### TO ADD SPECIFIED ENGINE COOLANT

To add specified engine coolant:

- 1. Park on a level surface.
- 2. Remove the screws and cover 1).



- 3. Remove the filler cap 2.
- Add specified engine coolant through the filler hole until it reaches the "F" line 3 with the motorcycle held upright. Refer to the ENGINE COOLANT section. ( 3-36)



NOTE: Adding only water will dilute the engine coolant and reduce its effectiveness. Add specified engine coolant.

# **A WARNING**

Engine coolant is harmful or fatal if swallowed or inhaled. The solution can be poisonous to animals.

Do not drink antifreeze or coolant solution. If swallowed, do not induce vomiting. Immediately contact a poison control center or a physician. Avoid inhaling mist or hot vapors; if inhaled, go to fresh air. If coolant gets in the eyes, flush eyes with water and seek medical attention. Wash thoroughly after handling. Keep out of the reach of children and animals.

# **A** WARNING

Removing the radiator cap when the engine is hot may cause the coolant to spray out, causing burns.

Replenish coolant by removing the reservoir tank cap. Do not remove the radiator cap.

# **A** CAUTION

If the engine coolant exceeds the "F" line when adding engine coolant, it may overflow from the reservoir tank when the engine becomes hot.

When adding engine coolant, make sure that the engine coolant level is not higher than the "F" line.

### NOTICE

Spilled engine coolant can damage the painted surfaces of your motorcycle.

Be careful not to spill any fluid when filling the radiator. Wipe spilled engine coolant up immediately.

### RADIATOR HOSE INSPECTION

Inspect the radiator hoses for cracks, damage or engine coolant leakage. If any issues are found, ask your Suzuki dealer to replace the radiator hose with a new one.

### **ENGINE IDLE SPEED**

#### INSPECTION

Inspect the engine idle speed. The engine idle speed should be  $1200-1400\,\mathrm{r/min}$  when the engine is warm.

NOTE: If the engine idle speed is not within the specified range, ask your Suzuki dealer or a qualified mechanic to inspect and repair the motorcycle.

### DRIVE CHAIN

#### DESCRIPTION

This motorcycle has an endless drive chain constructed from special materials. It does not use a master link. We recommend that you take your motorcycle to an authorized Suzuki dealer if the drive chain needs to be replaced.

The condition and adjustment of the drive chain should be checked each day before you ride. Always follow the guidelines for inspecting and servicing the chain.

# **A WARNING**

Too much chain slack can cause the chain to come off the sprockets, resulting in a crash or serious damage to the motorcycle.

Inspect and adjust the drive chain slack before each use.

#### INSPECTING THE DRIVE CHAIN

When inspecting the chain, look for the following:

- Loose pins
- Damaged rollers
- Dry or rusted links
- Kinked or binding links
- Excessive wear
- Improper chain adjustment

If you find anything wrong with the drive chain condition or adjustment, correct the problem if you know how.

If necessary, consult your authorized Suzuki dealer.

Damage to the drive chain means that the sprockets may also be damaged. Inspect the sprockets for the following:

- · Excessively worn teeth
- Broken or damaged teeth
- Loose sprocket mounting nuts

If you find any of these issues with your sprocket, consult your Suzuki dealer.

# **A WARNING**

Improperly installing a replacement chain, or using a joint-clip type chain, can be hazardous. An incompletely riveted master link, or a joint-clip type master link, may come apart and cause a crash or severe engine damage.

Do not use a joint-clip type chain. Chain replacement requires a special riveting tool and a high-quality, non-joint-clip type chain. Ask an authorized Suzuki dealer or a qualified mechanic to perform this work.

#### DRIVE CHAIN CLEANING AND OILING

Clean and oil the drive chain using the following procedure.

- Remove dirt and dust from the drive chain. Be careful not to damage the seal rings.
- For cleaning, use a dedicated sealed chain cleaner or water or neutral detergent and a soft brush. Even a soft brush may harm the seals, so be careful not to damage the seal rings.

# **NOTICE**

Cleaning the drive chain improperly can damage seal rings and ruin the drive chain.

- Do not use a volatile solvent such as paint thinner, kerosene, or gasoline.
- Do not use a high pressure cleaner to clean the drive chain.
- Do not use a wire brush to clean the drive chain.

- 3. Wipe off water and neutral detergent.
- Lubricate with a motorcycle sealed drive chain lubricant or high viscosity oil (#80 – 90).

### **NOTICE**

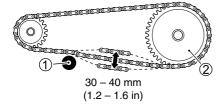
Some drive chain lubricant contains solvents and additives which could damage the seal rings in the drive chain.

Use sealed drive chain lubricant, which is specifically intended for use with sealed drive chains.

- Lubricate both front and back plates of the drive chain.
- 6. Wipe off excess lubricant after lubricating all around the drive chain.

#### **DRIVE CHAIN ADJUSTMENT**

Inspect the drive chain slack before each use of the motorcycle. Place the motorcycle on the side stand. The drive chain should be adjusted for 30 - 40 mm (1.2 - 1.6 in) of slack halfway between the chain roller 1 and rear sprocket 2 as shown.



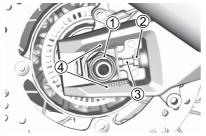
# **A** CAUTION

A hot exhaust pipe or muffler can burn you. The exhaust pipe or muffler will be hot enough to burn you for some time after stopping the engine.

Wait until the exhaust pipe or muffler cools before adjusting the drive chain.

To adjust the drive chain, follow the procedure below:

- 1. Place the motorcycle on the side stand.
- 2. Loosen the axle nut 1.



- 3. Loosen the right and left lock nuts 2.
- Turn the right and left adjuster bolts 3 until the chain has 30 40 mm (1.2 1.6 in) of slack halfway between the chain roller and rear sprocket.

- 5. At the same time that the chain is being adjusted, the rear sprocket must be kept in perfect alignment with the front sprocket. To assist you in performing this procedure, there are reference marks 4 on the swingarm and each chain adjuster which are to be aligned with each other and to be used as a reference from one side to the other.
- 6. Tighten the axle nut ① securely.
- Recheck the chain slack after tightening and readjust if necessary.
- 8. Tighten the right and left lock nuts ②.

Rear axle nut tightening torque: 100 N⋅m (10.2 kgf-m, 74.0 lbf-ft)

Chain adjuster lock nut tightening torque:

22 N·m (2.2 kgf-m, 16.5 lbf-ft)

NOTE: Do not adjust the drive chain beyond the adjustable range ④. Replace the drive chain before the drive chain exceeds the limit

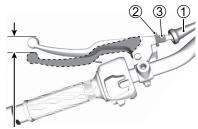
### **CLUTCH LEVER**

#### **DESCRIPTION**

The play of the clutch lever should be  $10-15 \, \text{mm} \, (0.4-0.6 \, \text{in})$  as measured at the clutch lever end. If you find the play of the clutch incorrect, adjust it in the following way.

#### **CLUTCH LEVER ADJUSTMENT**

- 1. Slide the boot 1.
- Loosen the clutch cable adjuster lock nut (2).
- 3. Turn the clutch cable adjuster 3 to provide the specified play ③.
- 4. Tighten the lock nut 2.
- 5. Reinstall the boot 1.



10 - 15 mm (0.4 - 0.6 in)

### **BRAKES**

#### DESCRIPTION

This motorcycle has front and rear disc brakes.

### **A WARNING**

Failure to properly inspect and maintain your motorcycle's brake systems can increase your chance of a crash.

Be sure to inspect the brakes before each use according to the INSPECTION BEFORE RIDING section. Always maintain your brakes according to the MAINTENANCE SCHEDULE.

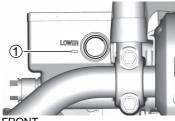
NOTE: Operating in mud, water, sand, or other extreme conditions can cause accelerated brake wear. If you operate your motorcycle under these conditions, the brakes must be inspected more often than recommended in the MAINTENANCE SCHEDULE.

#### **BRAKE HOSE INSPECTION**

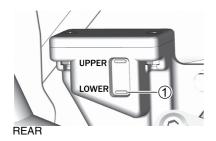
Inspect the brake hoses and hose joints for cracks, damage, or brake fluid leakage. If any issues are found, ask your Suzuki dealer to replace the brake hose with a new one.

#### BRAKE FLUID

Check the brake fluid level in both the front and rear brake fluid reservoirs. If the level in either reservoir is below the lower mark 1. inspect for brake pad wear and leaks.



**FRONT** 



# **WARNING**

Brake fluid will gradually absorb moisture through the brake hoses. Brake fluid with high water content lowers the boiling point and can cause brake system (including ABS) malfunction due to corrosion of brake components. Boiling brake fluid or brake system (including ABS) malfunction could result in a crash.

Replace the brake fluid every two years to maintain braking performance.

### **A** WARNING

A marked decrease in brake fluid may indicate leaks in the brake system. If there is insufficient brake fluid the brakes may not function fully, which may result in a crash

Have your motorcycle inspected by a Suzuki dealer.

# **WARNING**

The use of any fluid except DOT4 brake fluid from a sealed container can damage the brake system and lead to a crash.

Clean filler cap before removing. Use only DOT4 brake fluid from a sealed container. Never use or mix with different types of brake fluid.

# **A WARNING**

If dirt enters the reservoir tank it may cause the brake system to malfunction.

When adding brake fluid, clean around the filler cap before you open it.

# **A WARNING**

Brake fluid is harmful or fatal if swallowed, and harmful if it comes in contact with skin or eyes. The solution can be poisonous to animals.

If brake fluid is swallowed, do not induce vomiting. Immediately contact a poison control center or a physician. If brake fluid gets in the eyes, flush them with water and seek medical attention. Wash thoroughly after handling. Keep out of the reach of children and animals.

### **NOTICE**

Spilled brake fluid can damage painted surfaces and plastic parts.

Be careful not to spill any fluid when filling the brake fluid reservoir. Wipe spilled fluid up immediately.

#### **BRAKE PADS**

Inspect the front and rear brake pads to see if they are worn down to the grooved wear limit line ①. If a front or rear pad is worn to the grooved wear limit line, both front or both rear pads must be replaced with new ones.

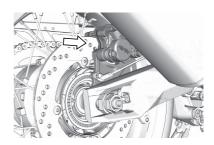
After replacing either the front or rear brake pads, the brake lever or pedal must be pumped several times. This will extend the pads to their proper position.

New brake pads work with different strength when applied, so ride carefully.

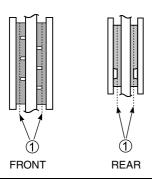
NOTE: Do not squeeze/depress the brake lever/pedal when the pads are not in their positions. It is difficult to push the pistons back and brake fluid leakage may result.



**FRONT** 



**REAR** 



# **A WARNING**

Failure to inspect and maintain the brake pads and replace them when recommended can increase your chance of having a crash.

If you need to replace brake pads, have your Suzuki dealer do this work. Inspect and maintain the brake pads as recommended.

# **A WARNING**

Replacing only one of the two brake pads can result in uneven braking action and can increase your chance of having a crash.

Always replace both pads together.

### **A** WARNING

If you ride this motorcycle after brake system repair or brake pad replacement without pumping the brake lever/pedal, you may get poor braking performance, which could result in a crash.

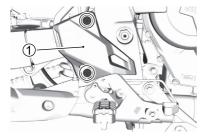
After brake system repair or brake pad replacement, pump the brake lever/pedal several times until brake pads are pressed against the brake discs and proper lever/pedal stroke and firm feel are restored.

### **REAR BRAKE PEDAL ADJUSTMENT**

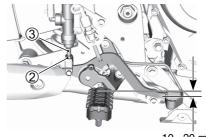
The rear brake pedal position must be properly adjusted at all times or the disc brake pads will rub against the disc causing damage to the pads and to the disc surface.

Adjust the brake pedal hight in the following manner:

1. Remove the bolts and footrest guard ①.



 Loosen the lock nut ②, and turn the push rod ③ to locate the pedal 10 - 20 mm (0.4 - 0.8 in) below the top face of the footrest.



10 - 20 mm (0.4 - 0.8 in)

- 3. Retighten the lock nut ② to secure the push rod ③ in the proper position.
- 4. Reinstall the footrest guard and bolts.

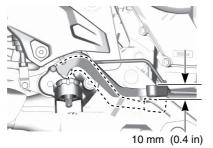
### **NOTICE**

An incorrectly adjusted brake pedal may force brake pads to continuously rub against the disc, causing damage to the pads and disc.

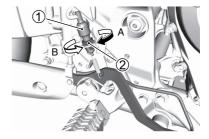
Follow the steps in this section to adjust the brake pedal properly.

#### **REAR BRAKE LIGHT SWITCH**

Check that the brake light lights when the rear brake pedal is depressed approximately 10 mm (0.4 in). Adjust the rear brake light switch if the light lights too early or late.



Fix the rear brake light switch body ① with your finger so that it does not rotate, and then rotate the adjuster ② to adjust it. Rotating the nut as shown in A makes the brake light lights earlier. Rotating as shown in B makes the light lights later.



### **NOTICE**

Rotating the rear brake light switch body when making adjustments may cause the wiring to disconnect.

Rotate the adjuster so that the rear brake light switch body does not rotate.

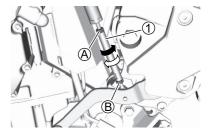
### **GEARSHIFT LEVER**

#### **DESCRIPTION**

If it is difficult to change gears when riding, the gearshift lever height may not be right for your body. We recommend adjusting the height to suit your body.

#### **GEARSHIFT LEVER ADJUSTMENT**

The height of the gearshift lever can be adjusted using the following procedure.



 Rotate the rod ① to the right (→) to raise the pedal position, and in the opposite direction (←) to lower it.  Locate the gearshift lever 10 - 20 mm (0.4 - 0.8 in) below the top face of the footrest.

NOTE: If you rotate the gear shift sensor ①, functions such as Quick Shift may not function properly. Use the rod ② to adjust the shift pedal height. Do not turn the gear shift sensor ①.



10 - 20 mm (0.4 - 0.8 in)

 After adjusting, rotate lock nut A and B in the opposite direction of step1 (⇐⇒) to tighten them.

NOTE: After adjusting, tighten the lock nuts firmly.

### **TIRES**

#### **DESCRIPTION**

Check that there are no cracks or damage in the contact surface or sides of the tires. Additionally, check that there are no nails, stones, or other foreign bodies piercing or embedded in the tires.



Also, check that there is no unusual wear on the contact surface of the tires. Consult a Suzuki dealer regarding any unusual wear.



When changing tires, be sure to use the designated tires below.

	FRONT	REAR
SIZE	90/90-21M/C 54H	150/70R17M/C 69H
TYPE	DUNLOP MIXTOUR B	DUNLOP MIXTOUR B

# **A WARNING**

Using non-designated tires may negatively affect the safe operation of your motorcycle.

Be sure to use the designated tires.

# **A WARNING**

An improperly repaired, installed, or balanced tire can cause loss of control and a crash, or can wear out sooner.

- Ask your Suzuki dealer or a qualified mechanic to perform tire repair, replacement, and balancing because proper tools and experience are required.
- Install tires according to the rotation direction shown by arrows on the sidewall of each tire.

# **A WARNING**

The tires on your motorcycle form the crucial link between your motorcycle and the road. Failure to take the precautions below may result in a crash due to tire failure.

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

# **A WARNING**

Failure to perform break-in of the tires could cause tire slip and loss of control, which could result in a crash.

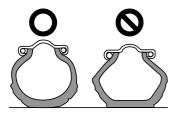
Use extra care when riding on new tires. Perform proper break-in of the tires referring to the BREAK-IN section of this manual and avoid hard acceleration, hard cornering, and hard braking for the first 100 miles (160 km).

NOTE: As new tires slip easily, do not lean the motorcycle too far. Keep the angle of lean gentle while breaking in the tires.

#### TIRE PRESSURE AND LOADING

For safe riding, read the owner's manual for information on tire pressures and selecting tires to use.

Tires heat up when the motorcycle is traveling, increasing the air pressure. Accordingly, use the tire gauge when the tires are cool, before riding, and check to see if the tires are at the specified pressure. Adjust to the appropriate pressure if the value is outside the specified range. Overloading your tires can lead to tire failure and loss of vehicle control.



Check tire pressure each day before you ride, and be sure the pressure is correct for the vehicle load according to the chart below.

#### Cold tire inflation pressure

Т	LOAD	SOLO RIDING	DUAL RIDING
	FRONT	225 kPa 2.25 kgf/cm² 33 psi	225 kPa 2.25 kgf/cm² 33 psi
	REAR	250 kPa 2.50 kgf/cm² 36 psi	280 kPa 2.80 kgf/cm² 41 psi

Under-inflated tires make smooth cornering difficult, and can result in rapid tire wear. Over-inflated tires cause a smaller amount of tire to be in contact with the road, which can contribute to skidding and loss of control.

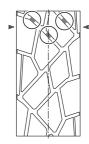
NOTE: When you detect drops in tire pressure, check the tire for nails or other punctures, or a damaged wheel rim.

#### TIRE CONDITION AND TYPE

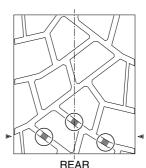
Tire condition and tire type affect motorcycle performance. Cuts or cracks in the tires can lead to tire failure and loss of motorcycle control. Worn tires are susceptible to puncture failures and subsequent loss of motorcycle control. Tire wear also affects the tire profile, changing motorcycle handling characteristics.

Check the condition of your tires each day before you ride. Replace tires if tires show visual evidence of damage, such as cracks or cuts, or if tread depth is less than 1.6 mm (0.06 in) front, 2.0 mm (0.08 in) rear. The " $\Delta$ " mark indicates the place where the wear bars are molded into the tire. When the wear bars contact the road, it indicates that the tire wear limit has been reached.





**FRONT** 



#### **SPOKE WHEELS**

#### WHEEL RIM INSPECTION

Check to see if there is any damage like a crack, distortion or bend in the wheel rim.



## **A WARNING**

Damaged rims can allow air to leak, resulting in reduced running stability, which can lead to a crash.

If any damage is found, replace the rim. Do not reuse the damaged rim by repairing or correcting it.

#### SPOKE INSPECTION

Check the tension of spokes to verify the tightness of the spoke nipples. The tension can be checked by hitting the spokes with a small metal bar. If the spoke nipple is loose, its sound will be dull.



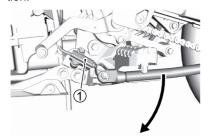
To tighten the spoke nipples properly, tighten them equally to the specified torque. Loosened and overtightened spoke nipples may cause unequal tension of spokes and may result in distortion of the wheel rim. Contact your Suzuki dealer to perform this service.

## SIDE STAND/IGNITION INTERLOCK SYSTEM

#### INSPECTION

Check the side stand/ignition interlock system for proper operation as follows:

- 1. Sit on the motorcycle in the normal riding position, with the side stand up.
- 2. Shift into first gear, hold the clutch in, and start the engine.
- While continuing to hold the clutch in, move the side stand to the down position.



1: Side stand/ignition interlock switch

If the engine stops running when the side stand is moved to the down position, then the side stand/ignition interlock system is working properly. If the engine continues to run with the side stand down and the transmission in gear, then the side stand/ignition interlock system is not working properly. Have your motorcycle inspected by an authorized Suzuki dealer or a qualified service mechanic.

## **A** WARNING

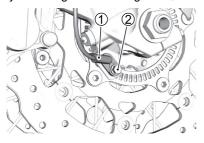
If the side stand/ignition interlock system is not working properly, it is possible to ride the motorcycle with the side stand in the down position. This may interfere with rider control during a left turn and could cause a crash.

Check the side stand/ignition interlock system for proper operation before riding. Check that the side stand is returned to its full up position before starting off.

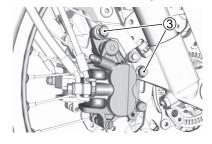
#### FRONT WHEEL

#### REMOVING

- Place the motorcycle on the center stand.
- 2. Remove the front wheel speed sensor ① by removing the mounting bolt ②.



3. Remove both brake calipers from the front forks by removing the mounting bolts ③ on each of the calipers.

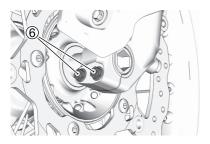


NOTE: Never squeeze the brake lever with the caliper removed. It is very difficult to force the pads back into the caliper assembly and brake fluid leakage may result.

- 4. Remove the axle nut 4.
- 5. Loosen the axle stopper bolts ⑤.



6. Loosen the axle stopper bolts 6.

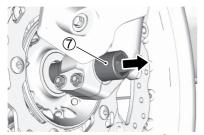


- Place an accessory service stand or equivalent under the swingarm to help stabilize the rear end.
- 8. Carefully position a jack under the exhaust pipe and raise it until the front wheel is slightly off the ground.

## **NOTICE**

Improper jacking may cause damage to the fairing or oil filter.

Do not place the jack under the lower part of the fairing or the oil filter when jacking up the motorcycle. 9. Draw out the axle shaft 7.

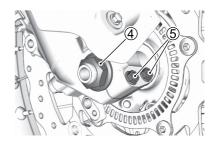


10. Slide the front wheel forward 8.



- 11. Put the new wheel in place and insert the axle shaft.
- 12. Remove the jack and service stand.

- 13. Hold the shaft and tighten the axle nut 4 to the specified torque.
- 14. Tighten the axle stopper bolts ⑤ to the specified torque.



15. Move the steering up and down several times to seat the axle shaft.

16. Tighten the axle stopper bolts ⑥ to the specified torque.



- 17. Reinstall the brake calipers and speed sensor.
- 18. After installing the wheel, apply the brake several times to restore the proper lever stroke.

Front axle nut tightening torque: 100 N·m (10.2 kgf-m, 74.0 lbf-ft)

Front axle stopper bolt tightening torque: 23 N⋅m (2.3 kgf-m, 17.0 lbf-ft)

Front brake caliper mounting bolt tightening torque: 26 N·m (2.7 kgf-m, 19.5 lbf-ft)

Front wheel speed sensor mounting bolt tightening torque: 10 N·m (1.0 kgf-m, 7.5 lbf-ft)

## **WARNING**

Failure to extend brake pads after installing the wheel can cause poor braking performance and may result in a crash.

Before riding, "pump" the brake lever repeatedly until brake pads are pressed against the brake discs and proper lever stroke and firm feel are restored. Also check that the wheel rotates freely.

## **A WARNING**

If the bolts and nuts are not properly tightened, the wheel can come off, causing a crash.

Be sure to tighten the bolts and nuts to the specified torque. If you do not have a torque wrench or do not know how to use one, ask your authorized Suzuki dealer to check the bolts and nuts.

## **A WARNING**

Installing the front wheel in the reverse direction can be hazardous. The tire for this motorcycle is directional. Therefore, the motorcycle may have unusual handling if the wheel is installed incorrectly.

Install the front wheel so that the tire rotates in the specified direction, as indicated by the arrow on the sidewall of the tire.

#### **REAR WHEEL**

#### REMOVING

## **A** CAUTION

A hot exhaust pipe or muffler can burn you.

Wait until the exhaust pipe or muffler cools before removing the axle nut.

## **NOTICE**

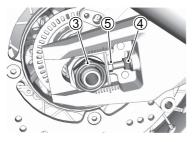
Removing the rear wheel without use of an accessory stand can result in your motorcycle falling over and being damaged.

Do not attempt roadside removal of the rear wheel. Only remove the rear wheel at a properly equipped servicing facility using an accessory service stand.

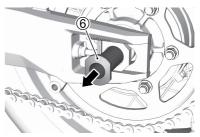
- Place an accessory service stand or an equivalent stand under the swingarm to lift the rear wheel slightly off the ground.
- 2. Remove the rear wheel speed sensor ① by removing the mounting bolt ②.



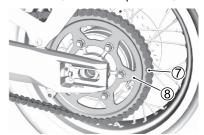
- 3. Remove the axle nut 3.
- 4. Loosen the right and left lock nuts ④. Turn the right and left chain adjuster bolts ⑤ clockwise.



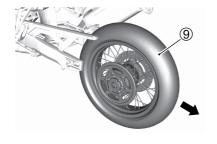
5. Draw out the axle shaft 6.



6. With the wheel moved forward, remove the chain  $\widehat{\mathcal{T}}$  from the sprocket  $\widehat{\mathbb{B}}$ .



7. Pull the rear wheel assembly 9 rearward.



NOTE: Never depress the rear brake pedal with the rear wheel removed. It is very difficult to force the pads back into the caliper assembly.

- 8. To replace the wheel, reverse the complete sequence listed.
- 9. Adjust the drive chain slack.
- 10. After installing the wheel, apply the brake several times and then check that the wheel rotates freely.

Rear axle nut tightening torque: 100 N·m (10.2 kgf-m, 74.0 lbf-ft)

Chain adjuster lock nut tightening torque:

22 N·m (2.2 kgf-m, 16.5 lbf-ft)

Rear wheel speed sensor mounting bolt tightening torque:

10 N·m (1.0 kgf-m, 7.5 lbf-ft)

## **WARNING**

Failure to adjust the drive chain and failure to torque bolts and nuts properly could lead to a crash.

- After installing the rear wheel, adjust the drive chain as described in the DRIVE CHAIN ADJUSTMENT section ( 3-44).
- Torque bolts and nuts to the proper specifications. If you are not sure of the proper procedure, have your authorized Suzuki dealer or a qualified mechanic do this.

## **A WARNING**

Failure to extend brake pads after installing the wheel can cause poor braking performance and may result in a crash.

Before riding, "pump" the brake pedal repeatedly until brake pads are pressed against the brake discs and proper pedal stroke and firm feel are restored. Also check that the wheel rotates freely.

#### LIGHT BULB

#### REPLACEMENT

The wattage rating of each bulb is shown in the following chart. When replacing a burned-out bulb, always use the same wattage rating according to the following chart.

Headlight	LED
Position light	LED
Front turn signal light	LED
Rear turn signal light	LED
Brake light/Taillight	LED
License plate light	12V 5W

NOTE: This motorcycle is equipped with LED lighting. Because LED lights have been integrated into light assemblies, replacement of only the LED lights is not available. If any of the LED lights cannot be turned on, consult with your Suzuki dealer.

### NOTICE

Failure to use a light bulb with the correct wattage rating can overload the electrical system of your motorcycle or cause the bulb to burn out sooner.

Use only the light bulbs shown in the chart as replacement bulbs.

#### License plate light

For the license plate light replacement procedure, consult with your Suzuki dealer.

#### **HEADLIGHT BEAM**

#### TO ADJUST THE BEAM

The headlight beam can be adjusted both up and down or right and left if necessary.

Low-beam up and down:

Turn the adjuster ① clockwise or counter-clockwise.

Low-beam right and left:

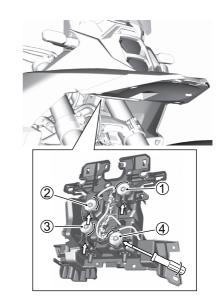
Turn the adjuster ② clockwise or counter-clockwise.

High-beam up and down:

Turn the adjuster ③ clockwise or counter-clockwise.

High-beam right and left:

Turn the adjuster @ clockwise or counter-clockwise.



#### **FUSES**

#### DESCRIPTION

If something electrical on your motorcycle stops working, the first thing you should check for is a blown fuse. The electrical circuits on the motorcycle are protected from overload by fuses in the circuits.

## **WARNING**

Replacing a fuse with a fuse that has an incorrect amperage rating or substitute, e.g. aluminum foil or wire, may cause serious damage to the electrical system and possibly fire. Always replace a blown fuse with a fuse of the same amperage rating.

If the new fuse blows in a short time, the electrical problem may not be fixed. Have your motorcycle inspected immediately by your Suzuki dealer.

### NOTICE

Installing electrical items such as lights, gauges, etc., that are not suitable for the motorcycle may cause fuses to blow or may run down the battery.

Use genuine Suzuki parts when attaching electrical items.

### **NOTICE**

Spraying water or wiping forcefully around fuses when washing the motor-cycle may cause water to enter the wiring, causing corrosion or short circuiting.

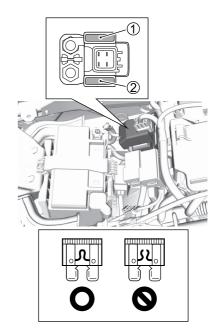
Do not spray water or wipe forcefully in the area around fuses.

#### **MAIN FUSE**

The main fuse is located under the rear seat.

Inspect the main fuses using the following procedure.

- 1. Set the ignition switch to "OFF".
- 2. Remove the rear seat. See "SEAT AND SEAT LOCK" on page 2-110.
- 3. Remove the starter relay box cover, pull out the fuse ①, and inspect it.
- 4. If a fuse is blown, check the reason, and when you have remedied it, replace with a spare fuse ② of the specified amperage. If you are unable to ascertain the reason, have your motorcycle inspected by a Suzuki dealer.

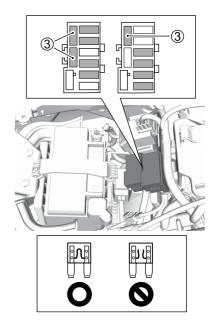


#### **FUSES**

The fuses are located under the rear seat.

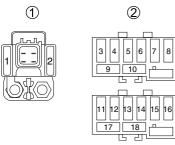
Inspect fuses using the following procedure.

- 1. Set the ignition switch to "OFF".
- 2. Remove the rear seat. See "SEAT AND SEAT LOCK" on page 2-110.
- 3. Open the fuse box cover, pull out the fuses, and inspect them.
- 4. If a fuse is blown, check the reason, and when you have remedied it, replace with a spare fuse ③ of the specified amperage. If you are unable to ascertain the reason that the fuse has blown, have your motorcycle inspected by a Suzuki dealer.



#### LIST

The following chart shows the main equipment that each fuse protects.



1: starter relay box

2: fuse box

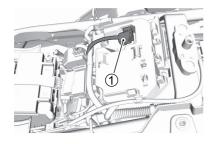
Position	Label	Capacity	Protection parts
1	MAIN	30A	All electric circuits
2	SPARE	30A	-
3	-	-	-
4	-	-	-
5	P-SOURCE	10A	Power source

Position	Label	Capacity	Protection parts
6	PARKING	10A	Position light     Taillight     License plate light
7	ABS-VALVE	15A	ABS
8	ABS-MOTOR	20A	ABS
9	SPARE	20A	-
10	-	-	-
11	HEAD-HI	10A	Head light (high-beam)     High-beam relay     Speedometer
12	HEAD-LO	10A	Head light (low-beam)
13	IGNITION	10A	Starter relay Starter sub relay Cooling fan relay Fuel pump relay Solenoid ECM Oxygen sensor Immobilizer (if equipped) ABS

Position	Label	Capacity	Protection parts
14	SIGNAL	15A	Position light Brake light/Taillight License plate light Turn signal light Speedometer Horn USB socket
15	FUEL	10A	Speedometer     Fuel injector     Fuel pump     ECM
16	FAN	15A	Cooling fan motor
17	SPARE	10A	-
18	SPARE	15A	-

#### **DIAGNOSTIC CONNECTOR**

The diagnostic connector ① is located under the seat.



NOTE: The diagnostic connector is used by a Suzuki dealer or a qualified service mechanic.



## **TROUBLESHOOTING**

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#### TROUBLESHOOTING

#### **DESCRIPTION**

This troubleshooting guide is provided to help you find the cause of some common complaints.

Consult your Suzuki dealer if your motorcycle is experiencing any issues or you notice something seems wrong.

## **NOTICE**

Making unsuitable repairs or adjustments may damage your motorcycle. In some cases damage may not be covered by the warranty.

Consult a Suzuki dealer if anything is unclear.

#### ENGINE DOES NOT START

Perform the following checks.

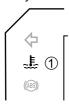
- Make sure you are using the correct starting procedure.

  See "STARTING PROCEDURE" on page 2-90.
- Make sure the fuel tank has fuel.
   See "REFUELING PROCEDURE" on page 2-98.
   Check if the malfunction indicator light
- comes on.
  See "MALFUNCTION INDICATOR
  LIGHT" on page 2-22.
- Check if the immobilizer indicator light comes on.
   See "IMMOBILIZER (if equipped)" on page 2-83.
- Check for loose battery terminals.
   See "BATTERY" on page 3-14.
- Are any fuses blown?
   See "FUSES" on page 3-74.

Consult your Suzuki dealer if you notice any failures/issues.

# IN CASE OF OVERHEATING (ENGINE COOLANT TEMPERATURE WARNING INDICATOR LIGHT COME ON)

If the engine coolant temperature warning indicator light ① come on, stop the motorcycle in a safe place, perform the following checks, and take any necessary action.



- Turn the ignition switch to the "OFF" position to stop the engine.
- Turn the ignition switch to the "ON" position to start the radiator fan and cool the engine.
  - If the radiator fan does not operate, do not start the engine. Consult your Suzuki dealer.
- Once the engine has sufficiently cooled, check the coolant level and check hoses and such for leaks.
  - a. If you find any leaks, do not start the engine. Consult your Suzuki dealer.
  - b. Replenish the coolant if the coolant level is low and there are no leaks. If you have to use water instead of coolant, consult your Suzuki dealer as soon as possible to have the coolant checked and replaced.
- If no issues are found, the motorcycle can be ridden once the engine coolant temperature warning indicator light go off. Consult your Suzuki dealer for inspection as soon as possible.

## NOTICE

Riding while the motorcycle is overheating can cause serious damage to the engine.

Do not ride the motorcycle if the engine coolant temperature warning indicator light come on.

# WHEN THE OIL PRESSURE WARNING INDICATOR LIGHT COME ON WHILE RIDING

If the oil pressure warning indicator light ① come on, stop the motorcycle in a safe place, perform the following checks, and take any necessary action.

TC

① 🖘

N

- Turn the ignition switch to the "OFF" position to stop the engine.
- Check the engine oil level. See "CHECK-ING THE ENGINE OIL LEVEL" on page 3-27.

Replenish engine oil if the level is insufficient.

- 3. Start the engine.
  - a. You can ride the motorcycle once the oil pressure warning indicator light go off.
  - b. If the oil pressure warning indicator light do not go off, stop the engine and consult your Suzuki dealer.
- 4. The engine may be damaged if the oil level has decreased. Consult your Suzuki dealer for inspection.

## NOTICE

Riding with low engine oil pressure may cause serious damage to the engine.

Do not ride the motorcycle if the oil pressure warning indicator light come on.

#### INDICATOR DISPLAYS

Consult a Suzuki dealer if the state of the indicator displays is as follows.

- The malfunction indicator light (on page 2-22) comes on or blinks
- The FI warning displays appear (on page 2-22)
- The check displays (on page 2-24) do not go out
- The ABS indicator light (on page 2-26) does not reset or come on again after resetting to its default state
- The neutral indicator light does not come on when the gear position indicator is in the N position (on page 2-21)
- The neutral indicator light comes on while the gear position indicator is displaying 1, 2, 3, 4, 5, or 6 (on page 2-35)
- The TC indicator (on page 2-44) comes on
- The service reminder indicator (on page 2-41) comes on

- The engine coolant temperature warning indicator light is lit and does not turn off when the engine is cold (on page 2-31)
- The oil pressure warning indicator light comes on when the amount of engine oil is appropriate (on page 2-30)

#### MOTORCYCLE CONDITION

Consult a Suzuki dealer if the state of the motorcycle is as follows.

- The engine does not start
- If the motorcycle has fallen over or been involved in an accident
- The motorcycle makes an unusual noise, or leaks fluid
- Engine performance drops off or is poor
- There is a marked decrease in brake fluid, or you need to replace the brake fluid or pads
- Brake performance is poor
- There is a marked decrease in coolant, or you need to replace the coolant
- You cannot ascertain why a fuse has blown
- The tires are extremely worn or you need to replace them





#### 4

# STORAGE PROCEDURE AND MOTORCYCLE CLEANING

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PROCEDURE FOR RETURNING TO SERVICE	5-4
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## STORAGE PROCEDURE AND MOTORCYCLE CLEANING

#### STORAGE PROCEDURE

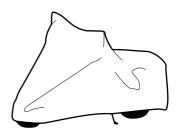
#### **DESCRIPTION**

When you do not intend to ride the motorcycle for a long time, it is important to perform maintenance before storage. Perform the maintenance shown below.

NOTE: Suzuki recommends that you trust this maintenance work to your Suzuki dealer.

#### **MOTORCYCLE**

Place the motorcycle on the side stand on a firm, flat surface where it will not fall over. For motorcycles equipped with a center stand, use the center stand for parking. Wash the motorcycle before storing, dry it, and then cover it with a body cover.



NOTE: Apply the body cover after the engine and muffler have cooled.

#### **FUEL**

- Fill the fuel tank to the top with fuel mixed with the amount of gasoline stabilizer recommended by the stabilizer manufacturer.
- Run the engine for a few minutes until the stabilized gasoline fills the fuel injection system.

#### **ENGINE**

- Drain the engine oil completely and refill the crankcase with fresh engine oil all the way up to the filler hole.
- Cover the air cleaner intake and the muffler outlet with oily rags to prevent humidity from entering.

NOTE: For the inside engine protection method, consult with your Suzuki dealer.

#### **BATTERY**

- 1. Remove the battery from the motorcycle by referring to the BATTERY section.
- Clean the outside of the battery with a mild soap and remove corrosion from the terminals and wiring harness.
- Store the battery in a room above freezing.

NOTE: Batteries lose electricity and self-discharge slowly, so remove the battery from the motorcycle, charge fully, and then store in a dark place in a room with good ventilation. When storing with the battery mounted on the motorcycle, disconnect the (-) terminal.

#### **TIRES**

Adjust tire pressure to the recommended pressure, and raise so that the front and rear wheels are off the ground.

NOTE: Consult a Suzuki dealer for information on how to raise the front and rear wheels off the ground.

#### **EXTERNAL**

- Spray all vinyl and rubber parts with rubber protectant.
- Spray unpainted surfaces with rust preventative.
- Coat painted surfaces with car wax.

#### MAINTENANCE DURING STORAGE

Once a month, recharge the battery. Refer to the BATTERY section for instructions. If you cannot charge the battery, consult your authorized Suzuki dealer.

## PROCEDURE FOR RETURNING TO SERVICE

#### **HOW TO RETURN TO SERVICE**

- 1. Clean the entire motorcycle.
- Remove the oily rags from the air cleaner intake and muffler outlet.
- Drain all the engine oil. Install a new oil filter and fill the engine with fresh oil as outlined in this manual.
- 4. Reinstall the battery by referring to the BATTERY section.
- Make sure that the motorcycle is properly lubricated.
- 6. Perform the INSPECTION BEFORE RIDING as listed in this manual.
- Start the motorcycle as outlined in this manual.

#### CORROSION PREVENTION

## IMPORTANT INFORMATION ABOUT CORROSION

Perform maintenance to prevent the motorcycle from rusting and extend its life.

The following can cause corrosion.

- Sea air, unpaved roads, road salt, moisture and accumulation of chemical substances.
- Damage to metal parts or painted surfaces caused by minor crashes, or by being struck by sand or stones, or other debris.

#### **HOW TO HELP PREVENT CORROSION**

- Wash your motorcycle frequently, at least once a month. Keep your motorcycle as clean and dry as possible.
- Remove foreign material deposits. Foreign material such as road salt, chemicals, road oil or tar, tree sap, bird droppings and industrial fall-out may damage your motorcycle's finish. Remove these types of deposits as quickly as possible. If these deposits are difficult to wash off, an additional cleaner may be required. Follow the manufacturer's directions when using these special cleaners.
- Repair finish damage as soon as possible. Carefully examine your motorcycle for damage to the painted surfaces. Should you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through to the bare metal, have a Suzuki dealer make the repair.

- Store your motorcycle in a dry, well-ventilated area. If you often wash your motorcycle in the garage or if you frequently park it inside when wet, your garage may be damp. The high humidity may cause or accelerate corrosion. A wet motorcycle may corrode even in a heated garage if the ventilation is poor.
- Cover your motorcycle. Exposure to midday sun can cause the colors in paint, plastic parts, and instrument faces to fade. Covering your motorcycle with a high-quality, "breathable" motorcycle cover can help protect the finish from the harmful UV rays in sunlight, and can reduce the amount of dust and air pollution reaching the surface. Your Suzuki dealer can help you select the right cover for your motorcycle.

#### NOTE:

- Wax all areas of the motorcycle before storage. This prevents rusting.
- Clean the motorcycle with cool water immediately after riding on road salt or riding along the coast. Be sure to use cool water because warm water can accelerate corrosion.

### MOTORCYCLE CLEANING

### WASHING THE MOTORCYCLE

Washing the motorcycle helps to extend its life and keeps it in pristine condition. Waxing will also provide you with the opportunity to find any abnormalities and to prevent malfunctions. Wash the motorcycle when it is cold.

- Remove dirt and mud from the motorcycle with cool running water. You may use a soft sponge or brush. Do not use hard materials which can scratch the paint.
- Wash the entire motorcycle with a neutral detergent using a sponge or soft cloth. The sponge or cloth should be frequently soaked in the soap solution.

NOTE: Clean the motorcycle with cool water immediately after riding on road salt or riding along the coast. Be sure to use cool water because warm water can hasten corrosion.

Once the dirt has been completely removed, rinse off the detergent with plenty of water.

NOTE: The detergent used to wash the motorcycle can negatively affect plastic parts if the detergent is not fully rinsed off. Make sure to fully rinse off all detergent with plenty of water after washing the motorcycle.

- After rinsing, wipe off the motorcycle with a wet chamois or cloth and allow it to dry in the shade.
- 5. Check carefully for damage to painted surfaces. If there is any damage, obtain "touch-up" paint and "touch-up" the damage following the procedure below:
  - a. Clean all damaged spots and allow them to dry.
  - b. Stir the paint and "touch-up" the damaged spots lightly with a small brush.
  - c. Allow the paint to dry completely.

# **A WARNING**

Misplacing an object between the fairing and the handlebars could adversely affect operation of the handlebars.

When cleaning the motorcycle, do not place anything between the fairing and the handlebars.

NOTE: The headlight lens can be fogged after washing the motorcycle or riding in the rain. Headlight fogging will be cleared gradually when the headlight is turned on. When clearing the headlight lens fogging, run the engine to avoid battery discharge.

NOTE: Avoid spraying or allowing water to flow over the following places:

- Ignition switch
- Spark plugs
- Fuel tank cap
- Fuel injection system
- Brake master cylinders

## **NOTICE**

If water gets into the exhaust pipe, mufflers, air cleaner, or electrical parts during cleaning, it may cause failure to start or rust.

Be careful not to get water into the above parts during cleaning.

# NOTICE

Applying high pressure water to the radiator can damage the cooling fins.

Be careful when washing around the radiator.

# **NOTICE**

High pressure washers such as those found at coin-operated car washes have enough pressure to damage the parts of your motorcycle. It may cause rust, corrosion, and increased wear. Parts cleaner can also damage motorcycle parts.

Do not use high pressure washers to clean your motorcycle. Do not use parts cleaner on the throttle body and fuel injection sensors.

### NOTICE

Cleaning your motorcycle with any alkaline or strong acid cleaner, gasoline, brake fluid, or any other solvent will damage the motorcycle parts.

Make sure to fully rinse off all detergent with plenty of water after washing the motorcycle.

### **WHEELS**

Aluminum wheels do not hold up well to dirt from salt. To preserve aluminum wheels in pristine condition, clean them regularly (approximately once per week).

- Soak a sponge in neutral detergent and wash off any dirt.
- 2. Wash with sufficient water, then wipe off the water with a dry cloth.

NOTE: Aluminum wheels scratch easily, so do not rub or brush with polishing powder, hard brushes, or metal brushes.

### PLASTIC PARTS

Plastic parts such as the headlight lens, speedometer display, windshield, and fairings, are easy to damage. When such parts are cleaned, wash them using water, after cleaning them using neutral detergent or soapy water, and wipe them with a soft cloth.

# **NOTICE**

Foreign substances can scratch or damage plastic parts such as the headlight lens, speedometer display, and windshield.

Do not allow the following substances to get on the plastic parts mentioned above:

- Wax compound
- Chemical supplies such as oil film removing agents or repellents
- Acidic or alkaline detergent
- Brake fluid, gasoline, alcohol or organic solvent, etc.

### **EXHAUST PIPES**

Stainless steel exhaust pipes may be subject to burn marks caused by oil and other dirt.

- Using kitchen cleaner for stainless steel, wipe dirt off with a cloth or sponge, rinse with sufficient water, and then wipe dry with a dry cloth.
- When burn marks occur, scrub with a fine compound and then wipe off the dirt.

NOTE: Although exhaust heat may cause the exhaust pipe to change color, this will not cause functional problems.

# **NOTICE**

The exhaust pipe, muffler and the engine become hot when the engine is running and stay hot after it has stopped. Touching them at this time may cause burns.

Do not touch the exhaust pipe, muffler or engine until they have cooled.

### WAXING THE MOTORCYCLE

After washing the motorcycle, waxing and polishing are recommended to further protect and beautify the paint.

- Only use good quality waxes and polishes.
- When using waxes and polishes, observe the precautions specified by the manufacturers.

# SPECIAL CARE FOR MATTE FINISH PAINT

Do not use polishing compounds or waxes that contain polishing compounds on surfaces which have a matte finish. Doing so will change the appearance of the matte finish.

Solid-type waxes may be difficult to remove from surfaces with a matte finish.

Friction while riding and excessive rubbing or polishing of a surface with a matte finish, will change its appearance.

### INSPECTION AFTER CLEANING

### DESCRIPTION

After drying the motorcycle, apply grease. To help extend your motorcycle's life, lubricate it according to the "LUBRICATION POINTS" section.

Follow the procedures in the "INSPECTION BEFORE RIDING" section to check your motorcycle for any issues that may have arisen during your last ride.

# **A WARNING**

Operating the motorcycle with wet brakes can be hazardous. Wet brakes may not provide as much stopping power as dry brakes. This could lead to a crash.

Test your brakes after washing the motorcycle, while riding at slow speed, and in a safe location. If necessary, apply the brakes several times to let friction dry out the linings.



### ē

# **CONSUMER INFORMATION**

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ON-BOARD MOTORCYCLE COMPUTER DATA INFORMATION	
SERIAL NUMBER LOCATION	6-5

### CONSUMER INFORMATION

### CATALYTIC CONVERTER

### DESCRIPTION

The muffler on this motorcycle contains a catalytic converter. This catalytic converter works to reduce the volume of toxic substances output in exhaust gases.

Inappropriate adjustment or erroneous handling may cause incomplete combustion (misfiring), resulting in the temperature of the catalytic converter rising to extreme levels. Take care, as this may damage the catalytic converter or other related parts.

Although the catalytic converter does not require any special inspections or maintenance, please perform specified engine inspections and maintenance.

### NOTICE

Improper motorcycle operation can cause catalyst or other motorcycle damage.

To avoid damage to the catalyst or other related components, you should take the following precautions:

- While the motorcycle is in motion, do not operate the ignition switch or engine stop switch, or turn off the engine, except in an emergency.
- Do not try to start the engine by pushing the motorcycle or by coasting down a hill.
- Do not start the engine with the spark plug wire removed during diagnostic testing.
- Do not idle the engine unnecessarily or for long periods.
- Do not use all of the gasoline in the fuel tank.

 If engine performance deteriorates or is poor, have your motorcycle inspected at a Suzuki dealer.

# ON-BOARD MOTORCYCLE COMPUTER DATA INFORMATION

### DESCRIPTION

Your motorcycle is equipped with on-board computer systems, which monitor and control several aspects of motorcycle performance, including the following:

### **DATA TYPES**

- Engine condition, such as engine speed.
- Transmission condition, such as gear position.
- Operating status, such as accelerator, brakes (including ABS), gear position.
- Information related to computer system failures of all kinds.

### NOTE:

- Data recorded differs depending on vehicle type.
- Voice data is not recorded.
- Depending on the conditions of use, data may not be recorded in some cases.

### DISCLOSURE OF DATA

Suzuki Motor Corporation and third parties contracted by Suzuki Motor Corporation may acquire and use data recorded by onboard computers to diagnose vehicle faults, conduct research, and development, and improve quality.

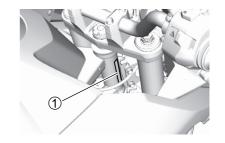
Suzuki Motor Corporation and third parties contracted by Suzuki Motor Corporation will not disclose or provide the information acquired to a third party other than in the following cases.

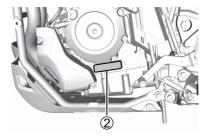
- When the user of the vehicle has consented.
- When required or allowed to do so based on laws and ordinances, a court injunction, or other legal force.
- When providing data that has been processed so that users and vehicles cannot be identified, for use by research institutes, etc., in statistical processing, etc.

### SERIAL NUMBER LOCATION

### **DESCRIPTION**

Record the frame and engine serial numbers in the next page for use in procedures such as creating vehicle registration documents. You also need these numbers to help your dealer when you order parts.





### FRAME NUMBER

The frame number 1 is stamped on the steering head as shown in the illustration.

Write down the frame number here for your future reference.

Frame No.:

### **ENGINE SERIAL NUMBER**

The engine serial number ② is stamped on the crankcase assembly.

Write down the serial number here for your future reference.

Engine No.:

### **KEY NUMBER**

This motorcycle comes with two keys and an alphanumeric key number printed on a plate.

### NOTE:

- In addition to standard key functions, the keys of this motorcycle also have immobilizer functions.
- Damaging or losing these keys will cause you to incur significant expense, so please handle them with care.
- Please store the spare key carefully.



# **SPECIFICATIONS**

### **DIMENSIONS AND CURB MASS**

Overall length	2345 mm (92.3 in)
Overall width	
Overall height	1310 - 1340 mm (51.6 - 52.8 in)
Wheelbase	
Ground clearance	220 mm (8.7 in)
Curb mass	230 kg (507 lbs)

### **ENGINE**

2.TGIIT2	
Type	. Four-stroke, liquid-cooled
Number of cylinders	. 2
Bore	
Stroke	
Displacement	
Compression ratio	
Fuel system	
Air cleaner	
Starter system	Electric
Lubrication system	

### DRIVE TRAIN

DRIVE I KAI	N	
Clutch		Wet multi-plate type
Transmission	1	6-speed
Gearshift pa	tern	1-down, 5-up
Primary redu	ction ratio	1.675 (62/37)
Gear ratios,	Low	3.071 (43/14)
	2nd	2.200 (33/15)
	3rd	1.700 (34/20)
	4th	1.416 (34/24)
	5th	1.230 (32/26)
	Top	1.107 (31/28)
Final reduction	on ratio	2.941 (50/17)
Drive chain .		DID 525HV3, 126 links

### CHASSIS

CHASSIS	
Front suspension	Telescopic, cylindrical coil, oil damped
Rear suspension	Swingarm, cylindrical coil, oil damped
Front fork stroke	220 mm (8.7 in)
Steering angle	40° (right and left)
Caster	28° 00'
Trail	114 mm (4.5 in)
Turning radius	2.7 m (8.9 ft)
Front brake	Double disc
Rear brake	Single disc
Front tire size	
B	450/7004714/0 0011

### **ELECTRICAL**

Ignition type	. Electronic ignition (Transistorized)
Spark plug	. NGK LMAR8BI-9
Battery	. 12V 28.8 kC (8 Ah)/10 HR
Generator	. Three-phase A.C. generator
Main fuse	. 30A
Fuse	. 10/10/10/10/10/15/15A
ABS fuse	. 15/20A
Headlight	. LED
Position light	. LED
Front turn signal light	. LED
Rear turn signal light	. LED
License plate light	. 12V 5W
Brake light/Taillight	. LED
Turn signal indicator light	. LED
Neutral indicator light	. LED
High beam indicator light	. LED
Malfunction indicator light	. LED
Master warning indicator light	. LED
Oil pressure warning indicator light	. LED
Engine coolant temperature warning indicator light	. LED
Electrical charging indicator light	. LED
Traction control indicator light	. LED
ABS indicator light	. LED
Immobilizer indicator light (if equipped)	. LED
3 ( 111 /	

### **CAPACITIES**

Fuel tank		20.0 L (5.3/4.4 US/Imp. gal)
Engine oil,	oil change	3,000 ml (3.2/2.6 US/Imp. gt)
,	With filter change	
	Overhaul	3.900 ml (4.1/3.4 US/Imp. at)
Coolant		
		, ( F 47)

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# DECLARATION of CONFORMITY

EN]	Hereby, ASAHI DENSO CO., LTD. declares that the radio equipment type [SZ137] is in compliance with
cugusu	DIRCUNE 2014/33/EU. The full text of the RII depleration of conformity is available at the following internst address:
	The function of the EC decidence of connecting is available at the following invented address.  http://en.ad-asahidenso.co.jp/euro-compliance/
[BG]	С настоящото ASAHI DENSO CO., LTD. декларира, че този тип радиосъоръжение [SZ137] е в
Bulgarian	съответствие с Директива 2014/53/ЕС.
	Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[cs]	Tímto ASAHI DENSO CO., LTD. prohlašuje, že typ rádiového zařízení [SZ137] je v souladu se směrnicí
Czech	2014/53/EU.
	Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[DA]	Hermed erklærer ASAHI DENSO CO., LTD., at radioudstyrstypen [SZ137] er i overensstemmelse med direktiv
Danish	2014/53/EU.
	EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[DE]	Hiermit erklärt ASAHI DENSO CO., LTD., dass der Funkanlagentyp [SZ137] der Richtlinie 2014/53/EU
German	entspricht.
	Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[ET]	Käesolevaga deklareerib ASAHI DENSO CO., LTD., et käesolev raadioseadme tüüp [SZ137] vastab direktiivi
Estonian	2014/53/EL nouetele.
	ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[EL]	Με την παρούσα ο/η ASAHI DENSO CO., LTD., δηλώνει ότι ο ραδιοεξοπλισμός [SZ137] πληροί την οδηγία
Greek	2014/33/EE.
	Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[ES]	Por la presente, ASAHI DENSO CO., LTD. declara que el tipo de equipo radioeléctrico [SZ137] es conforme
Spanish	con la Directiva 2014/53/UE.
	El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[FR]	Le soussigné, ASAHI DENSO CO., LTD., déclare que l'équipement radioélectrique du type [SZ137] est
French	conforme à la directive 2014/53/UE.
	Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[H]	Il fabbricante, ASAHI DENSO CO., LTD., dichiara che il tipo di apparecchiatura radio [SZ137] è conforme alla
Italian	direttiva 2014/53/UE.
	Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet:
	http://en.ad-asahidenso.co.jp/euro-compliance/
[LV]	Ar šo ASAHI DENSO CO., LTD. deklarē, ka radioiekārta [SZ137] atbilst Direktīvai 2014/53/ES.
Latvian	Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē:
	http://en.ad-asahidenso.co.jp/euro-compliance/

# **EXAMPLE DENSO** 6-2-1 Somejidal, Hamakita-ku, Hamamatsu, Shizuoka 434-0046, Japan

Note) Frequency band(s) in which the radio equipment operates: 119-135 KHz operating at 134.2KHz Maximum radio frequency power transmitted in the frequency band(s) : 38.9  $dB\mu V/m \ensuremath{@}\xspace 10m$ 

Country	Importers name	Registered trade name or registered trade	TEL FAX	Postal address
GERMANY	SUZUKI DEUTSCHLAND GMBH	SUZUKI DEUTSCHLAND GMBH	49-6251-5700-380	SUZUKI-ALLEE 7, 64625 BENSHEIM, GERMANY
			49-6251-5700-389	
FRANCE	SUZUKI FRANCE S.A.S.	SUZUKI FRANCE S.A.S.	33-1-3482-1400	8, AVENUE DES FRERES LUMIERE, 78190 TRAPPES, FRANCE
			33-1-3482-8076	
ITALY	SUZUKI ITALIA S.P.A.	SUZUKI ITALIA S.P.A.	39-011-9213713	C.SO FRATELLI KENNEDY 12 10070 ROBASSOMERO (TO) ITALY
			39-011-9213748	
SPAIN	SUZUKI MOTOR IBERICA S.A.U	SUZUKI MOTOR IBERICA S.A.U	34-91-151-9500	CALLE CARLOS SAINZ 35-POLIGONO, CIUDAD DEL AUTOMOVIL, 28914, LEGANES,
			34-91-151-9599	MADRID SPAIN
AUSTRIA	SUZUKI AUSTRIA AUTOMOBIL HANDELS	SUZUKI AUSTRIA AUTOMOBIL HANDELS		MUNCHNER BUNDESSTRASSE 160 A-5020 SALZBURG, AUSTRIA
	GESELLSCHAFT M.B.H.	GESELLSCHAFT M.B.H.	43-662-2155-900	
HUNGARY	MAGYAR SUZUKI CORPORATION LTD.	MAGYAR SUZUKI CORPORATION LTD.	36-23-803-990	H-2040 BUDAORS KELETI UTCA 2, HUNGARY
			36-23-803-951	· ·
FINLAND	SUZUKI DEUTSCHLAND GMBH, FINNISH BRANCH	SUZUKI DEUTSCHLAND GMBH, FINNISH BRANCH	358 10 321 2000	RAJAMAANKAARI 5, FI-02970, ESPOO, FINLAND
POLAND	SUZUKI MOTOR POLAND SP. Z O.O.	SUZUKI MOTOR POLAND SP. Z O.O.	48-22-329-4104	UL. POLCZYNSKA 10. 01-378 WARSAW. POLAND
			48-22-329-4150	
NETHERLANDS	B.V. NIMAG	B.V. NIMAG	31-347-349-749	LANGE DREEF 12 4130 EB VIANEN THE NETHERLANDS
			31-347-349-700	
SWEDEN	KGK MOTOR AB	KGK MOTOR AB	46-892-3000	HAMMARBACKEN 8, SE-191 81 SOLLENTUNA, SWEDEN
			46-892-3345	'
DENMARK	C. REINHARDT A/S	C. REINHARDT A/S	45-4483-0910	INDUSTRIPARKEN 21, DK-2750 BALLERUP, DENMARK
	·	·	45-4468-0399	
SWITZERLAND	SUZUKI SCHWEIZ AG	SUZUKI SCHWEIZ AG	41-62-788-87-90	EMIL-FREY-STRASSE, 5745 SAFENWIL, SWITZERLAND
			41-62-788-87-91	
BELGIUM	MOTEO TWO WHEELS BELUX N.V.	MOTEO TWO WHEELS BELUX N.V.	32-3-4500411	SATENROZEN 8. B-2550 KONTICH, BELGIUM
			32-3-4500440	
PORTUGAL	MOTEO PORTUGAL, S.A.	MOTEO PORTUGAL, S.A.	351-234-300760	R, JOAO FRANCISCO DO CASAL APARTADO 3072 3801-101 AVEIRO, PORTUGAL
		·	351-234-300761	
NORWAY	ERLING SANDE AS	ERLING SANDE AS	47-32-98-93-00	DRÄPEN 12. DRAMMEN, NORWAY
			47-31-30-92-09	
GREECE	SFAKIANAKIS S.A.	SFAKIANAKIS S.A.	30-210-349-9000	5-7, SIDIROKASTROU STR & PIDNAS STR, 118 55 ATHENS, GREECE
			30-210-347-6191	,
CYPRUS	A.TRICOMITIS MOTORS LIMITED	A.TRICOMITIS MOTORS LIMITED	357-24-819700	P. O. BOX 40459, 35 SPYROU KYPRIANOU, TRICOMITIS BUILDING, LARNACA, 6013
			357-24-637727	CY. CYPRUS
RELAND	PRIORY CYCLE & MOTORCYCLE	PRIORY CYCLE & MOTORCYCLE	353-1-8307300	75-77 BOYNE ROAD, DUBLIN INDUSTRIAL ESTATE DUBLIN 11, IRELAND
	MANUFACTURING LTD.	MANUFACTURING LTD.	353-1-8307380	
ICELAND	SUZUKI UMBODID EHF	SUZUKI UMBODID EHF	354-568-5100	SKEIFAN 17, 108 REYKJAVIK, ICELAND

354-588-8211

356-20-160000

INDUSTRIAL MOTORS LTD.

1, ANTONIO BOSIO STREET MSIDA, MSD1341 MALTA

MALTA

INDUSTRIAL MOTORS LTD.



# DECLARATION of CONFORMITY

[EN]	Hereby, ASAHI DENSO., LTD. declares that the radio equipment type [SZ137] is in compliance with
English	Radio Equipment Regulations 2017 (S.I. 2017/1206).
	The full text of the declaration of conformity is available at the following internet address:
	http://en.ad-asahidenso.co.ip/euro-compliance/

Postal address	STEINBECK CRESCENT, SNELSHALL WEST, MILTON KEYNES MK4 4AE, U.K.	
TEL FAX	44-1908-336600 44-1908-336704	
Registered trade name or registered trade mark	OTH BB IMOZOS	
Importers	SUZUKI GB PLC	



### **TDRA - UNITED ARAB Emirates**

Mode Dealer ID Name: DA83368/19

TARTTE: ER73541/19

Model Name: SZ137

Product Type: Short range devices / Low power Devices



מספר אישור אלחוטי של משרד התקשורת הוא655-08969 אסור להחליף את האנטנה המקורית של המכשיר ולא לעשות בו כל שינוי טכני אחר

The manufacturer Name ASAHI DENSO CO.,LTD

Address of the manufacturer 6-2-1 Somejidai, Hamakita-ku,

Hamamatsu, Shizuoka, 434-0046 Japan

Brand Name SUZUKI

Model Name SZ137

Product Description Immobilizer

TRC type approval's number. TRC/36/6515/2020

Контроллер иммобилайзера
SZ137U
ASAHI DENSO CO.,LTD. AD
Япония
6-2-1 Somejidai, Hamakita-ku, Shizuoka 434-0046, Япония
(+81)53-586-7383
(+81)53-584-1589

Дата производства указана на этикетке продукта.

Импортеры	ООО «СУЗУКИ МОТОР РУС»
Телефон	+7 (495) 780-9071
Факс	+7 (495) 780-9072
Адрес	129323, Россия, Москва, ул. Снежная, 26





### ASAHI DENSO CO.,LTD

6-2-1 Somejidai, Hamakita-ku, Hamamatsu, Shizuoka, 434-0046 JAPAN

Importers name: AUTO International

Model No. SZ137

Frequency Range: 119-135kHz operating at 134.2kHz

RF Power Output: 38.9dBuV/m [@10m]







### AGRÉÉ PAR L'ANRT MAROC

Numéro d'agrément :MR 21935 ANRT 2019 Date d'agrément :27/12/2019

> ประเทศไทย เครื่อง โทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.

低功率電波輻射性電機管理辦法

### 第十二條

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

### 第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即 停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。 低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。



제품명 : 미약 전계강도 무선기기

모델명 : SZ137

인증번호 : R-R-AD1-SZ137 제조사/인증사 : ASAHI DENSO CO., LTD.

제조국 : JAPAN

Inmovilizador SUZUKI Modelo SZ137



H- 27269













# SUZUKI MOTOR CORPORATION

Part No. 99011-25L00-01A November, 2022 EN S

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# 🛕 คำเตือน

เพื่อลดความเสี่ยงจากุการบาดเจ็บ

- •กรุณาสวมหมวกนิรภัย แวนตา และเสื้อนิรภัย
  - และเลยหมาย
    •กรุณาอ่านคู่มือสำหรับผู้ขับขึ่ อย่างละเอียด

อาจถึงตายหรือพิการ หากไม่สวมหมวกนิรภัย และไม่ควรให้เด็กที่เท้ายัง ไม่ถึงที่วางเท้าโดยสาร



### 33011-23E00-003

### **SUZUKI MOTOR CORPORATION**