



DL1000

OWNER'S MANUAL



Part No. 99011-06G56-01A
June, 2007 (TK) EN

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.

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.

WARNING/CAUTION/NOTE

Please read this manual and follow its instructions carefully. To emphasize special information the words WARNING, CAUTION and NOTE carry special meanings and should be carefully reviewed.

▲ WARNING

The personal safety of the rider may be involved. Disregarding this information could result in injury to the rider.

CAUTION

These instructions point out special service procedures or precautions that must be followed to avoid damaging the machine.

NOTE: This provides special information to make maintenance easier or important instructions clearer.

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

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CONSUMER INFORMATION

ACCESSORY USE AND MOTORCYCLE LOADING

Accessory Use

The addition of unsuitable accessories can lead to unsafe operating conditions. It is not possible for Suzuki to test each accessory on the market or combinations of all the available accessories; however, your dealer can assist you in selecting quality accessories and installing them correctly. Use extreme caution when selecting and installing the accessories on your motorcycle and consult your Suzuki dealer if you have any questions.

▲ WARNING

Improper accessory installation can make your motorcycle unsafe and can lead to an accident.

Use Suzuki genuine accessories or equivalent that have been designed and tested for your motorcycle. Follow the guidelines in this section.

Accessory installation guideline

- Install aerodynamic affecting accessories, such as a fairing, windshield, backrests, saddlebags, and travel trunks, as low as possible, 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.
- Certain accessories displace the rider from his or her normal riding position. This limits the freedom of movement of the rider and may limit his or her control ability.
- Additional electrical accessories may overload the existing electrical system. Severe overloads may damage the wiring harness or create a dangerous situation due to the loss of electrical power during the operation of the motorcycle.
- Do not pull a trailer or sidecar. This motorcycle is not designed to pull a trailer or sidecar.

Loading Limit

▲ WARNING

Overloading or improper loading can cause loss of motorcycle control and this may result in an accident.

Follow loading limits and loading guidelines in this manual.

The combined weight of the rider, passenger, riding gear, accessories and cargo must never exceed load capacity of 205 kg (452 lbs). The accessory and cargo weight must never exceed 30 kg (66 lbs).

Loading Guidelines

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

- Balance the load between the left and right side of the motorcycle and fasten it securely.
- Keep cargo weight low and close to the center of the motorcycle as possible.
- Do not attach large or heavy items to the handlebars, front forks or rear fender.
- Do not install a luggage carrier or a luggage box protruding over the tail end of the motorcycle.
- Do not carry any items that protrude over the tail end of the motorcycle.
- Check that both tires are properly inflated to the specified tire pressure for your loading conditions. Refer to page 6-27.
- Improperly loading your motorcycle can reduce your ability to balance and steer the motorcycle. You should ride at reduced speeds, less than 130 km/h (80 mph), when you are carrying cargo or have added accessories.
- Adjust suspension setting as necessary.

MODIFICATION

Modification of the motorcycle, or removal of original equipment may render the vehicle unsafe or illegal.

The frame of this motorcycle is made of an aluminium alloy. Therefore, never make any modifications such as drilling or welding to the frame as it weakens the strength of the frame significantly. Failure to heed this warning could result in an unsafe vehicle operating condition and subsequent accident. Suzuki will not be responsible in any way for personal injury or damage to the motorcycle caused by frame modifications. Bolt on accessories that do not modify the frame in any way may be installed provided that the GVW is not exceeded.

▲ WARNING

Modification to an aluminum alloy frame, such as drilling or welding, weakens the frame. This could result in an unsafe operating condition and may lead to an accident.

Never make any modifications to the frame.

SAFE RIDING RECOMMENDATION FOR MOTORCYCLE RIDERS

Motorcycle riding is great fun and an exciting sport. Motorcycle riding also requires that some extra precautions be taken to ensure the safety of the rider and passenger. These precautions are:

WEAR A HELMET

Motorcycle safety equipment starts with a quality helmet. One of the most serious injuries that can happen is a head injury. ALWAYS wear a properly approved helmet. You should also wear suitable eye protection.

RIDING APPAREL

Loose, fancy clothing can be uncomfortable and unsafe when riding your motorcycle. Choose good quality motorcycle riding apparel when riding your motorcycle.

INSPECTION BEFORE RIDING

Review thoroughly the instructions in the "INSPECTION BEFORE RIDING" section of this manual. Do not forget to perform an entire safety inspection to ensure the safety of the rider and its passenger.

FAMILIARIZE YOURSELF WITH THE MOTORCYCLE

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. Remember practice makes perfect.

KNOW YOUR LIMITS

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

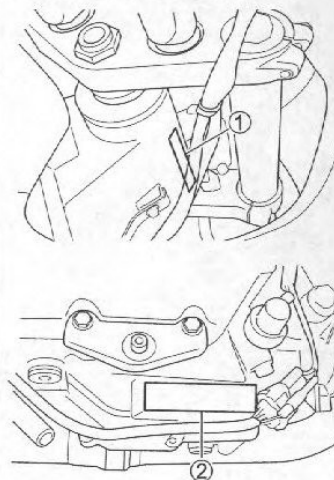
BE EXTRA SAFETY CONSCIOUS ON BAD WEATHER DAYS

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

RIDE DEFENSIVELY

The most common type of motorcycle accident occurs when a car traveling towards a motorcycle turns round corner in front of the motorcyclist. Ride defensively. Wise motorcyclist uses a strategy of assuming they are invisible to other drivers, even in broad daylight. Wear bright, reflecting clothing. Turn on the headlight and taillight every time even on a bright, sunny day to attract driver's attention. Do not ride in another driver's blind spot.

SERIAL NUMBER LOCATION



The frame and/or engine serial numbers are used to register the motorcycle. They are also used to assist your dealer when ordering parts or referring to special service information. The frame number ① is stamped on the steering head tube. The engine serial number ② is stamped on the crankcase assembly.

Please write down the numbers in the box provided below for your future reference.

Frame number:

Engine number:

**NOISE CONTROL SYSTEM
(AUSTRALIA ONLY)**

**TAMPERING WITH NOISE
CONTROL SYSTEM PROHIBITED**

Owners are warned that the law may prohibit:

- (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; and
- (b) The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

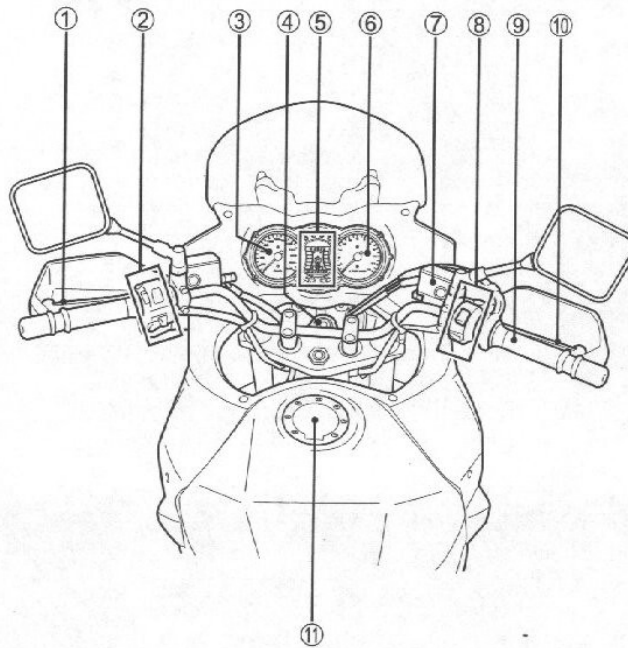


CONTROLS

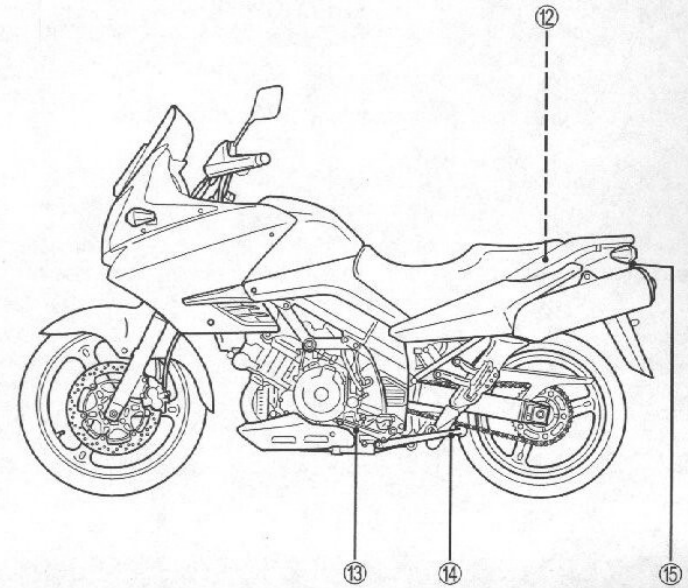
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CONTROLS

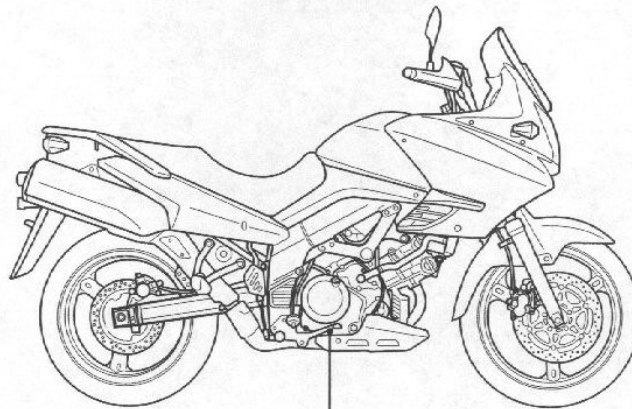
LOCATION OF PARTS



- ① Clutch lever
- ② Left handlebar switches
- ③ Speedometer
- ④ Ignition switch
- ⑤ Indicator lights
- ⑥ Tachometer
- ⑦ Front brake fluid reservoir
- ⑧ Right handlebar switches
- ⑨ Throttle grip
- ⑩ Front brake lever
- ⑪ Fuel tank cap

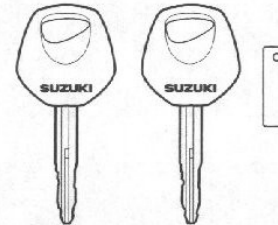


- ⑫ Tools
- ⑬ Gearshift lever
- ⑭ Side stand
- ⑮ Seat lock



⑯ Rear brake pedal

KEY

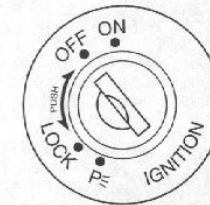


This motorcycle comes equipped with a main ignition key and a spare one. Keep the spare key in a safe place.

The key number is stamped on a plate provided with the keys. This number is used when making replacement keys. Please write your key number in the box provided for your future reference.

Key number:

IGNITION SWITCH



The ignition switch has four positions:

“OFF” POSITION

All electrical circuits are cut off. The engine will not start. The key can be removed.

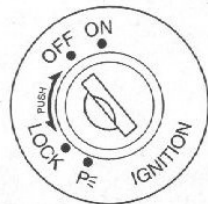
“ON” POSITION

The ignition circuit is completed and the engine can now be started. The headlight and taillight will automatically be turned on when the key is in this position. The key cannot be removed from the ignition switch in this position.

NOTE: Start the engine promptly after turning the key to the “ON” position, or the battery will lose power due to consumption by the headlight and taillight.

“LOCK” POSITION

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



"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 and taillight will remain lit and the steering will be locked. This position is for night time roadside parking to increase visibility.

* Canadian model and Australian model do not have position light.

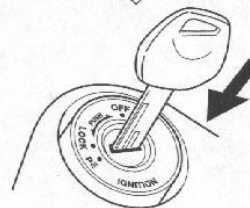
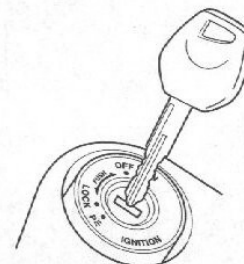
▲ WARNING

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 if equipped before locking the steering. Never attempt to move the motorcycle when the steering is locked.

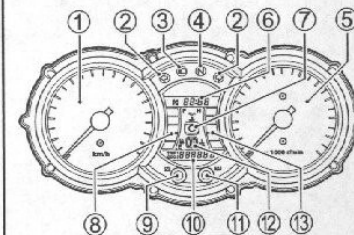


The key hole can be covered by turning the lid.



Align the lid hole position to the key hole position when inserting the key.

INSTRUMENT PANEL

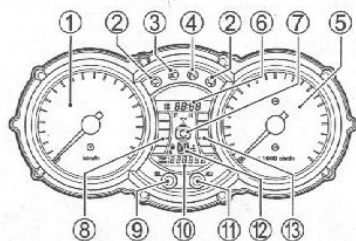


When the ignition switch is turned to the "ON" position, the speedometer and tachometer needles moves to the full scale position and return to the home position. LCD displays all segments for 3 seconds when the ignition switch is turned to the "ON" position to confirm display function.

If the speedometer and tachometer needle does not point to zero, follow the procedure below to reset the speedometer and tachometer.

1. Press the ADJ button (11) and turn on the ignition switch.
2. Press and hold the ADJ button (11) for 3 - 5 seconds.
3. Release the ADJ button. Press the ADJ button twice within 1 second.

NOTE: Reset procedure, from step 1 to step 3, should be performed within 10 seconds.



SPEEDOMETER ①

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

TURN SIGNAL INDICATOR LIGHT ②

When the turn signals are being operated either to the right or to the left, the indicator will flash at the same time.

NOTE: If a turn signal light is not operating properly due to bulb filament or circuit failure, the indicator light flickers more quickly to notify the rider of the existence of a trouble.

HIGH BEAM INDICATOR LIGHT ③

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

NEUTRAL INDICATOR LIGHT ④

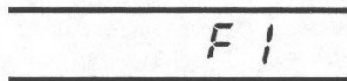
The green light will come on when the transmission is in neutral. The light will go out when you shift into any gear other than neutral.

TACHOMETER ⑤

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

FUEL INJECTION SYSTEM INDICATOR/CLOCK ⑥

Fuel Injection System Indicator



If the fuel injection system fails, the red indicator light ⑦ comes on and the display ⑥ indicates "FI" in following two modes;

- A. The display ⑥ indicates "FI" and the clock alternately, and the red indicator light ⑦ comes on and remains lit.
- B. The display ⑥ indicates "FI" continuously and the red indicator light ⑦ blinks.

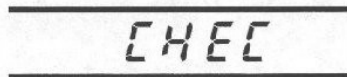
The engine may continue to run in mode A, but mostly the engine will not run in mode B.

CAUTION

Riding the motorcycle with the display indicating a problem of the fuel injection system and with the indicator light lit can damage the engine and transmission.

Whenever the red indicator light is lit and the display indicates "FI", have your authorized Suzuki dealer or a qualified mechanic inspect the fuel injection system as soon as possible.

NOTE: If the display indicates "FI" and the clock alternately, and the red indicator light comes on and remains lit, keep the engine running and bring your motorcycle to an authorized Suzuki dealer. If the engine stalls, try restarting the engine after turning the ignition switch off and on.



When the display ⑥ indicates "CHEC", check following items;

- Make sure that the engine stop switch is in the "O" position.
- Make sure that the transmission is in neutral or the side stand is fully up.

If the display still indicates "CHEC" after checking the above items, inspect the ignition fuse and the connection of the lead wire couplers.

NOTE: The coolant temperature meter indicates "H" when the display shows "CHEC".

Clock

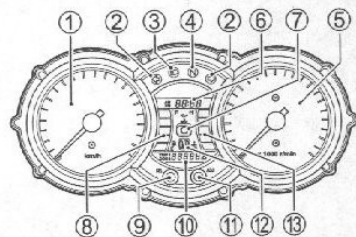


The clock has a 12-hour display. Follow the procedure below to adjust the clock.

1. Push the buttons, SEL ⑨ and ADJ ⑩, simultaneously for 2 seconds until the minute display blinks.
2. Adjust the minute display by pushing the "ADJ" button ⑩.

NOTE: When the "ADJ" button ⑩ is held in the display advances continuously.

3. Push the "SEL" button ⑨ to highlight the hour display.
4. Adjust the hour display by pushing the "ADJ" button ⑩.
5. Push the "SEL" button ⑨ to return to the clock mode.



OIL PRESSURE INDICATOR LIGHT ⑦

With the ignition switch in the "ON" position but the engine is not started, the symbol "⚡" in the display and the indicator light ⑦ comes on. As soon as the engine is started, the symbol "⚡" and the indicator light should go out.

When the engine oil pressure drops under the normal operating range, the symbol "⚡" in the display appears and the indicator light ⑦ comes on.

CAUTION

Riding the motorcycle when the symbol "⚡" appears and the indicator light lit can damage the engine and transmission.

Whenever the symbol "⚡" appears and the indicator lights up, indicating low oil pressure, stop the engine immediately. Check the oil level and make sure the proper amount of oil is in the engine. If the light still does not go out, have your authorized Suzuki dealer or a qualified mechanic troubleshoot your motorcycle.

FUEL METER ⑧

The fuel meter indicates the amount of fuel remaining in the fuel tank. The fuel meter displays all 5 segments when the fuel tank is full. The mark flickers when the fuel level drops below 5.0 L (5.3/4.4 US/Imp. qt). The mark and segment flicker when the fuel drops below 2.7 L (2.9/2.4 US/Imp. qt).

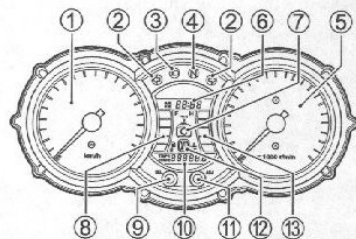
Fuel tank	Approximately 2.7 L	Approximately 5.0 L	Full
Fuel gauge			
Mark			

NOTE: The fuel meter will not indicate correctly when the motorcycle is placed with the side stand.

ODOMETER/TRIP METER ⑩

This display has 3 functions; odometer and two trip meters. When the ignition switch is turned to the "ON" position, the display indicates the test pattern shown below for 3 seconds. Then the display changes to odometer or trip meter, according to what was selected before turning the ignition switch off.

TRIP 1 00000.0
ODO 2 00000.0



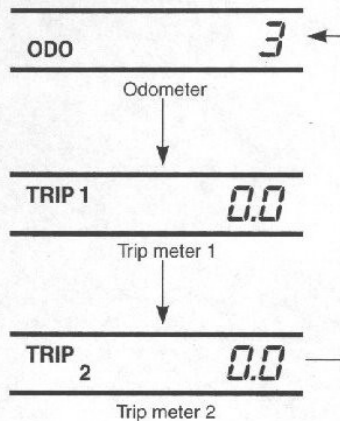
Odometer

The odometer registers the total distance that the motorcycle has been ridden.

Trip Meter

The two trip meters are resettable odometers. They can register two kinds of distance at the same time. For instance, trip meter 1 can register the trip distance and trip meter 2 can register the distance between fuel stops.

To change the display, push the "SEL" button ⑨. The display changes in the order below.



To reset a trip meter to zero, push the "ADJ" button ⑩ for two seconds while the display indicates the trip meter 1 or 2 you want to reset.

⚠ WARNING

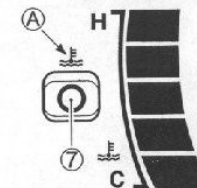
Operating the display while riding can be hazardous. Removing a hand from the handlebars can reduce your ability to control the motorcycle.

Always keep both hands on the handlebars while riding.

O/D INDICATOR ⑫

O/D indicator comes on when the transmission gear is shifted to 6th gear.

COOLANT TEMPERATURE METER ⑬



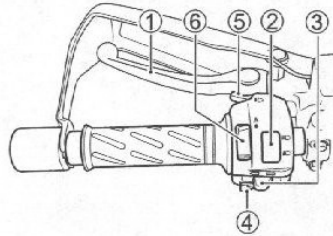
The coolant temperature meter indicates engine coolant temperature. When the coolant temperature becomes high, the mark ⑬ and indicator light ⑦ come on.

CAUTION

Running the engine with high temperature engine coolant can cause serious engine damage. If the mark and indicator light come on, stop the engine to let it cool.

Do not run the engine until the mark and indicator light go off.

LEFT HANDLEBAR



CLUTCH LEVER ①

The clutch lever is used for disengaging the drive to the rear wheel when starting the engine or shifting transmission gears. Squeezing the lever disengages the clutch.

DIMMER SWITCH ②

"LO" position
The headlight low beam and taillight turn on.

"HI" position

The headlight high beam and taillight turn on. The high beam indicator light also turns on.

CAUTION

Holding the dimmer switch between HI and LO position will light both HI and LO headlight beam. This operation can damage the motorcycle.

Use the dimmer switch only at HI or LO position.

CAUTION

Sticking some tape or placing objects in front of the headlight can damage the headlight.

Do not stick any tapes to the headlight. Do not place objects in front of the headlight.

TURN SIGNAL LIGHT SWITCH ③

Moving the switch to the "←" position will flash the left turn signals. Moving the switch to the "→" position will flash the right turn signals. The indicator light will also flash intermittently. To cancel turn signal operation, push the switch in.

WARNING

Failure to use the turn signals, and failure to turn off the turn signals can be hazardous. Other drivers may misjudge your course and this may result in an accident.

Always use the turn signals when you intend to change lanes or make a turn. Be sure to turn off the turn signals after completing the turn or lane change.

HORN SWITCH "H" ④

Press the switch to sound the horn.

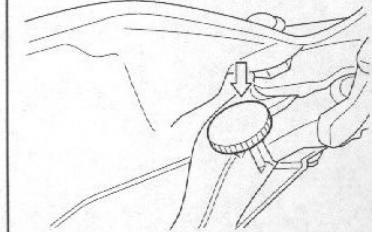
HEADLIGHT FLASHER SWITCH ⑤

Press the switch to flash the headlight.

HAZARD WARNING SWITCH ⑥

All four turn signal lights and indicators will flash simultaneously when the switch is turned on with the ignition switch in the "ON" or "P" position. Use the hazard warning lights to warn other traffic during emergency parking or when your vehicle could otherwise become a traffic hazard.

Clutch Lever Adjustment



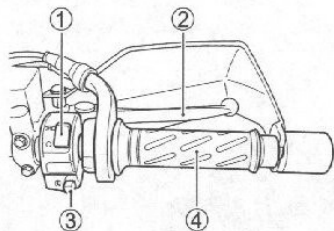
The distance between the grip and the clutch lever is adjustable to 4 positions. To change the position, push the clutch lever forward and turn the adjuster to the desired position. When changing the clutch lever position, always be sure the adjuster stops in the proper position; a projection of the clutch lever holder should fit into the depression of the adjuster. This motorcycle is delivered from the factory with its adjuster set on position 2.

WARNING

Adjusting the clutch lever position while riding can be hazardous. Removing a hand from the handlebars can reduce your ability to control the motorcycle.

Always keep both hands on the handlebars while riding.

RIGHT HANDLEBAR



ENGINE STOP SWITCH ①

“X” position

The ignition circuit is off. The engine cannot start or run.

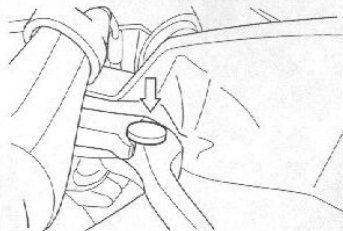
“O” position

The ignition circuit is on and the engine can run.

FRONT BRAKE LEVER ②

The front brake is applied by squeezing the brake lever gently toward the throttle grip. This motorcycle is equipped with a disk 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.

Front Brake Lever Adjustment



The distance between the throttle grip and the front brake lever is adjustable to 5 positions. To change the position, push the brake lever forward and turn the adjuster to the desired position. When changing the brake lever position, always be sure the adjuster stops in the proper position; a projection of the brake lever holder should fit into the depression of the adjuster. This motorcycle is delivered from the factory with its adjuster set on position 3.

▲ WARNING

Adjusting the front brake lever position while riding can be hazardous. Removing a hand from the handlebars can reduce your ability to control the motorcycle.

Always keep both hands on the handlebars while riding.

ELECTRIC STARTER BUTTON “O” ③

This button is used for operating the starter motor. With the ignition switch in the “ON” position, the engine stop switch in “O” and the transmission in neutral, push the electric starter button to operate the starter motor and start the engine.

NOTE: This motorcycle is equipped with interlock switches for the ignition circuit and the starter circuit. The engine can only be started if:

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

NOTE: The headlight will go off when the electric starter button is pushed.

CAUTION

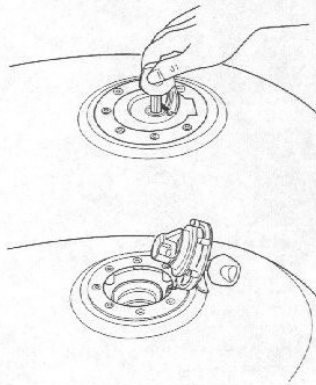
To prevent electrical system damage, do not operate the starter motor more than five seconds at a time.

If the engine does not start after several attempts, check the fuel supply and ignition system. Refer to the TROUBLESHOOTING section in this manual.

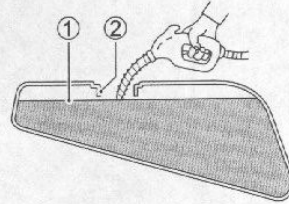
THROTTLE GRIP ④

Engine speed is controlled by the position of the throttle grip. Twist it toward you to increase engine speed. Turn it away from you to decrease engine speed.

FUEL TANK CAP



To open the fuel tank cap, insert the ignition key into the lock and turn it clockwise. With the key inserted, lift up with the key and open the fuel tank cap. To close the fuel tank cap, push the cap down firmly with the key in the cap lock.



- ① Fuel level
- ② Filler neck

⚠ WARNING

Overfilling the fuel tank can cause the fuel to overflow when it expands due to heat from the engine or the sun. Spilled fuel can catch on fire.

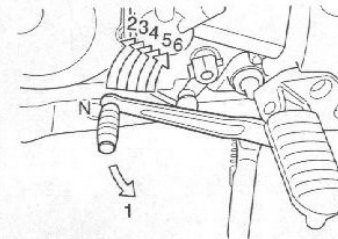
Never fill the fuel above the bottom of the filler neck.

⚠ WARNING

Fuel and fuel vapor are highly flammable and toxic. You can be burned or poisoned when refueling.

- Stop the engine and keep flames, sparks and heat sources away.
- Refuel only outdoors or in a well ventilated area.
- Do not smoke.
- Wipe up spills immediately.
- Avoid breathing fuel vapor.
- Keep children and pets away.

GEARSHIFT LEVER

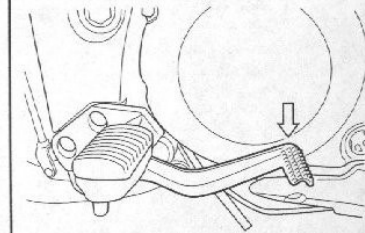


This motorcycle has a 6-speed transmission which operates as shown. To shift properly, pull the clutch lever and close the throttle at the same time you operate the gearshift lever. Lift the gearshift lever to upshift and depress the lever to downshift. Neutral is located between 1st and 2nd gear. When neutral is desired, depress or lift the lever halfway 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.

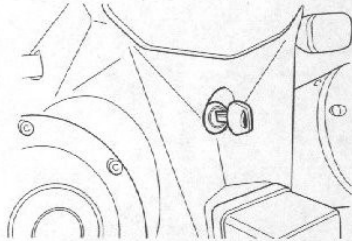
Reduce the motorcycle speed before down-shifting. When down-shifting, the engine speed should be increased before the clutch is engaged. This will prevent unnecessary wear on the drive train components and the rear tire.

REAR BRAKE PEDAL

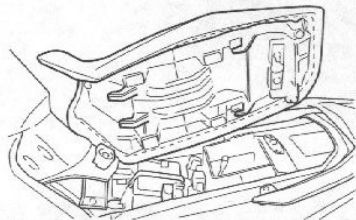


Depressing the rear brake pedal will apply the rear disk brake. The brake light will be illuminated when the rear brake is operated.

SEAT LOCK



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



To reinstall the seat, slide the seat hooks into the seat hook retainers and push down firmly until the seat snaps into the locked position.

⚠ WARNING

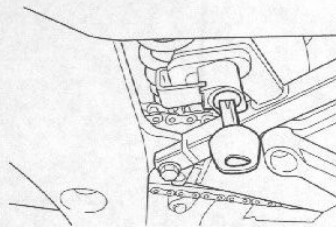
Failure to install the seat properly could allow the seat to move and cause loss of rider control.

Latch the seat securely in its proper position.

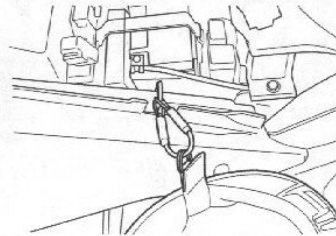
A small and light article such as rain gear or a windbreaker can be placed under the seat.

Loading limit: 2 kg (4.5 lbs)

HELMET HOLDER



Hook your helmet to the helmet holder.



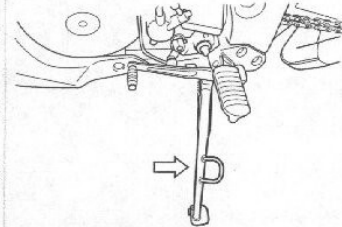
Use helmet holder wire as shown to hook two helmets.

⚠ WARNING

Riding with a helmet fastened to the helmet holder can interfere with rider control.

Never carry a helmet fastened to a helmet holder. Fix the helmet securely atop the seat if you must carry it.

SIDE STAND



An interlock switch is provided to cut off the ignition circuit when the side stand is down and the transmission is in any gear other than neutral.

The side stand/ignition interlock switch works as follows:

- If the side stand is down and the transmission is in gear, the engine can not be started.
- If the engine is running and the transmission is shifted into gear with the side stand down, the engine will stop running.
- If the engine is running and the side stand is put down with the transmission in gear, the engine will stop running.

⚠ WARNING

Riding with the side stand completely retracted can result in an accident when you turn left.

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

CAUTION

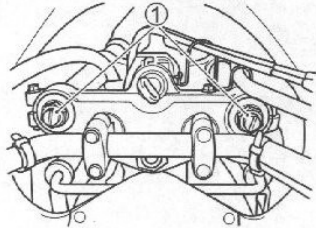
Park the motorcycle on firm, level ground to help prevent it from falling over.

If you must park on an incline, aim the front of the motorcycle uphill and put the transmission into 1st gear to reduce the possibility of rolling off the side stand.

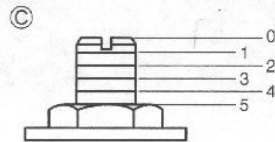
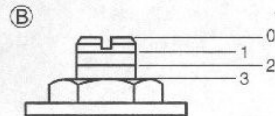
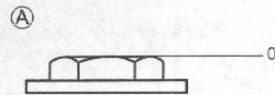
SUSPENSION ADJUSTMENT

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 to fine-tune them according to your preference.

FRONT SUSPENSION Spring Pre-load Adjustment



To change the spring pre-load, turn the adjuster ① clockwise or counterclockwise. Turning the adjuster clockwise will increase the spring pre-load. Turning the adjuster counterclockwise will decrease the spring pre-load. There are four grooved lines on the side of the adjuster ① for reference. Position 5 provides the minimum spring pre-load and position 0 provides the maximum pre-load. This motorcycle is delivered from the factory with its adjuster set on position 3.



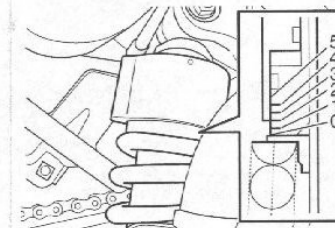
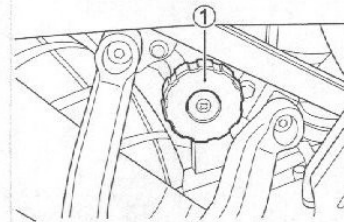
- A Position 0
- B Position 3
- C Position 5

⚠ WARNING

Unequal suspension adjustment can cause poor handling and loss of stability.

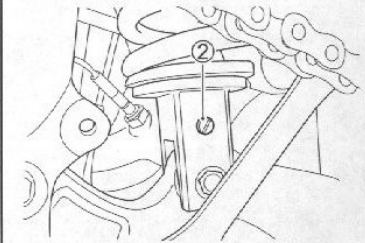
Adjust the right and left front forks to the same setting.

REAR SUSPENSION Spring Pre-load Adjustment



To adjust the rear suspension spring pre-load, turn the adjuster ①. Turning the adjuster clockwise will stiffen the spring pre-load and turning it counterclockwise will soften the spring pre-load. Position 1 provides the softest spring pre-load and position 5 provides the stiffest. This motorcycle is delivered from the factory with its adjuster set on position 2.

Damping Force Adjustment



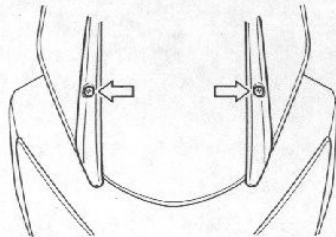
The rebound damping force adjuster ② is located at the bottom of the rear suspension damper unit. To adjust the damping force, set the adjuster to the standard setting first and then adjust it to the desired position. To set the damping force adjuster to the standard position:

1. Turn the adjuster clockwise until it stops.
2. Turn the adjuster counterclockwise 7/8 turns.

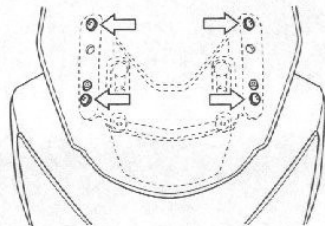
Turn the adjuster clockwise to stiffen the damping force and turn it counterclockwise to soften the damping force.

WINDSHIELD HEIGHT ADJUSTMENT

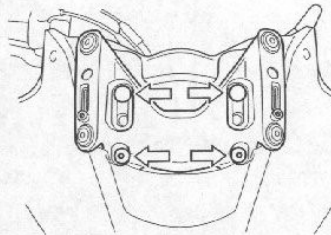
The windshield height can be adjusted in 3 positions. To change windshield height, follow the procedure below.



1. Remove the screws and plates.



2. Remove the screws and windshield.



3. Remove the 4 bolts.
4. Move the windshield up and down to desired windshield height.
5. Reinstall the windshield in the reverse order of the removal.

FUEL, ENGINE OIL AND COOLANT RECOMMENDATIONS

FUEL	3-2
ENGINE OIL	3-3
COOLANT	3-4

FUEL, ENGINE OIL AND COOLANT RECOMMENDATIONS

FUEL

Use unleaded gasoline with an octane rating of 91 or higher (Research method). Unleaded gasoline can extend spark plug life and exhaust components life.

(For Canada)

Your motorcycle requires regular unleaded gasoline with a minimum pump octane rating of 87 ((R+M)/2 method). In some areas, the only fuels that are available are oxygenated fuels.

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 MTBE or alcohol.

Gasoline Containing MTBE

Unleaded gasoline containing MTBE (Methyl Tertiary Butyl Ether) may be used in your motorcycle if the MTBE content is not greater than 15%. This oxygenated fuel does not contain alcohol.

Gasoline/Ethanol Blends

Blends of unleaded gasoline and ethanol (grain alcohol), also known as GASOHOL, may be used in your motorcycle if the ethanol content is not greater than 10%.

Gasoline/Methanol Blends

Fuels containing 5% or less methanol (wood alcohol) may be suitable for use in your motorcycle if they contain co-solvents and corrosion inhibitors.

DO NOT USE fuels containing more than 5% methanol under any circumstances. Fuel system damage or motorcycle performance problems resulting from the use of such fuels are not the responsibility of Suzuki and may not be covered under the New Vehicle Limited Warranty or the Emission Control System Warranty.

NOTE:

- To help minimize air pollution, Suzuki recommends that you use oxygenated fuels.
- Be sure that any oxygenated fuel you use has octane ratings of at least 90 pump octane ((R+M)/2 method).
- If you are not satisfied with the driveability or fuel economy of your motorcycle when you are using an oxygenated fuel, or if engine ping/ing is experienced, substitute another brand as there are differences between brands.

CAUTION

Spilled gasoline containing alcohol can harm your motorcycle. Alcohol can damage painted surfaces.

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

ENGINE OIL

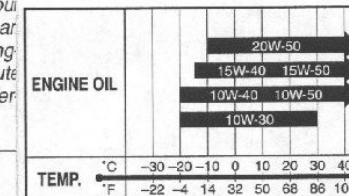
Oil quality is a major contributor to your engine's performance and life. Always select good quality engine oil. Use oil with an API (American Petroleum Institute) classification of SF/SG or SH/SJ, or with a JASO classification of MA.

SAE	API	JASO
10W-40	SF or SG	—
10W-40	SH or SJ	MA

API: American Petroleum Institute
JASO: Japanese Automobile Standards Organization

SAE Engine Oil Viscosity

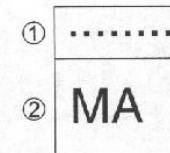
Suzuki recommends the use of SAE 10W-40 engine oil. If SAE 10W-40 engine oil is not available, select an alternative according to the following chart.



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 and MB. The oil container shows the classification as follows.



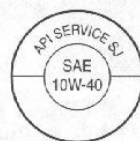
- ① Code number of oil sales company
② Oil classification

Energy Conserving

Suzuki does not recommend the use of "ENERGY CONSERVING" oils. Some engine oils which have an API classification of SH or higher have an "ENERGY CONSERVING" indication in the API classification doughnut mark. These oils can affect engine life and clutch performance.



Not recommended



Recommended

COOLANT

Use an anti-freeze compatible with aluminium radiator mixed with distilled water only at the ratio of 50:50.

⚠ WARNING

Engine coolant is harmful or fatal if swallowed or inhaled.

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, remove to fresh air. If coolant gets in eyes, flush eyes with water and seek medical attention. Wash thoroughly after handling. Solution can be poisonous to animals. Keep out of the reach of children and animals.

CAUTION

Spilled engine coolant can damage painted surfaces.

Do not spill any fluid when filling the radiator. Wipe spilled engine coolant up immediately.

Water for mixing

Use distilled water only. Water other than distilled water can corrode and clog the aluminium radiator.

Anti-freeze

The coolant performs as rust inhibitor and water pump lubricant as well as anti-freeze. Therefore the coolant should be used at all times even though the atmospheric temperature in your area does not go down to freezing point.

Required amount of water/coolant

Solution capacity (total): 2200 ml (2.3/1.9 US/Imp. qt)

50%	Water	1100 ml (1.2/0.9 US/Imp. qt)
	Coolant	1100 ml (1.2/0.9 US/Imp. qt)

NOTE: This 50% mixture will protect the cooling system from freezing at temperatures above -31°C . If the motorcycle is to be exposed to temperature below -31°C , this mixing ratio should be increased up to 55% (-40°C) or 60% (-55°C). The mixing ratio should not exceed 60%.



BREAK-IN (RUNNING-IN) AND INSPECTION BEFORE RIDING

- MAXIMUM ENGINE SPEED RECOMMENDATION4-2
- VARY THE ENGINE SPEED4-2
- BREAKING IN THE NEW TIRES4-2
- AVOID CONSTANT LOW SPEED4-3
- ALLOW THE ENGINE OIL TO CIRCULATE BEFORE RIDING4-3
- OBSERVE YOUR FIRST AND MOST CRITICAL SERVICE4-3
- INSPECTION BEFORE RIDING4-3



BREAK-IN (RUNNING-IN) AND INSPECTION BEFORE RIDING

Previous sections explain how important proper break-in is to achieving maximum life and performance from your new Suzuki. The following guidelines explain proper break-in procedures.

MAXIMUM ENGINE SPEED RECOMMENDATION

This table shows the maximum recommended engine speed during the break-in period.

Initial	800 km (500 miles)	Below 4500 rpm
Up to	1600 km (1000 miles)	Below 7000 rpm
Over	1600 km (1000 miles)	Below 9500 rpm

VARY THE ENGINE SPEED

The engine speed should be varied and not held at a constant speed. This allows the parts to be "loaded" with pressure, and then unloaded, allowing the parts to cool. This aids the mating process of the parts. It is essential that some stress be placed on the engine components during break-in to ensure this mating process. Do not, though, apply excessive load on the engine.

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).

▲ 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).

AVOID CONSTANT LOW SPEED

Operating the engine at constant low speed (light load) can cause parts to wear in the gears, without exceeding the recommended maximum limits. Do not, however, use full throttle for the first 1600 km (1000 miles).

ALLOW THE ENGINE OIL TO CIRCULATE BEFORE RIDING

Allow sufficient idling time after warm or cold engine start up before applying load or revving the engine. This allows time for the lubricating oil to reach all critical engine components.

OBSERVE YOUR FIRST AND MOST CRITICAL SERVICE

The initial service (1000 km 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 in that section.

INSPECTION BEFORE RIDING

▲ WARNING

Failure to inspect and maintain your motorcycle properly increases the chance of an accident or equipment damage.

Always perform a pre-ride inspection before each ride. Refer to the table on page 4-4 for check items. For further details, refer to the INSPECTION AND MAINTENANCE section.

▲ WARNING

Using worn, improperly inflated, or incorrect tires will reduce stability and can cause an accident.

Follow all instructions in the TIRES section in this owner's manual.

Before riding the motorcycle, be sure to check the following items. Never underestimate the importance of these checks. Perform all of them before riding the motorcycle.

▲ 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 parts.

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

WHAT TO CHECK	CHECK FOR:
Steering	<ul style="list-style-type: none"> • Smoothness • No restriction of movement • No play or looseness
Throttle	<ul style="list-style-type: none"> • Correct play in the throttle cable • Smooth operation and positive return of the throttle grip to the closed position
Clutch	<ul style="list-style-type: none"> • Correct fluid level • No fluid leakage • No "sponginess" • Proper lever play • Smooth and progressive action
Brakes	<ul style="list-style-type: none"> • Fluid level in the reservoir to be above "LOWER" line • Correct pedal and lever play • No "sponginess" • No fluid leakage • Brake pads not to be worn down to the limit line
Suspension	Smooth movement
Fuel	Enough fuel for the planned distance of operation
Drive chain	<ul style="list-style-type: none"> • Correct tension or slack • Adequate lubrication • No excessive wear or damage
Tires	<ul style="list-style-type: none"> • Correct pressure • Adequate tread depth • No cracks or cuts
Engine oil	Correct level
Cooling system	<ul style="list-style-type: none"> • Proper coolant level • No coolant leakage
Lighting	Operation of all lights and indicators
Horn	Correct function
Engine stop switch	Correct function
Side stand/ Ignition interlock switch	Proper operation



RIDING TIPS

STARTING THE ENGINE	5-2
STARTING OFF	5-3
USING THE TRANSMISSION	5-4
RIDING ON HILLS	5-5
STOPPING AND PARKING	5-5

RIDING TIPS

STARTING THE ENGINE

Before attempting to start the engine, make sure:

1. The transmission is in neutral.
2. The engine stop switch is in the "O" position.

NOTE: This motorcycle is equipped with interlock switches for the ignition circuit and the starter circuit.

The engine can only be started if:

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

3. Close the throttle completely and push the electric starter button.

NOTE: Open the throttle 1/8 and push the electric starter button when the engine is hard to start.

⚠ WARNING

Running the engine indoors or in a garage can be hazardous. Exhaust gas contains carbon monoxide, a gas that is colorless and odorless and can cause death or severe injury.

Only run the engine outdoors where there is fresh air.

CAUTION

Running the engine too long without riding may cause the engine to overheat. Overheating can result in damage to internal engine components and discoloration of exhaust pipes.

Shut the engine off if you cannot begin your ride promptly.

STARTING OFF

⚠ WARNING

Riding this motorcycle at excessive speed increases your chances of losing control of the motorcycle. This may result in an accident.

Always ride within the limits of your skills, your motorcycle, and the riding conditions.

⚠ WARNING

Removing your hands from the handlebars or feet from the footrests during operation can be hazardous. If you remove even one hand or foot from the motorcycle, you can reduce your ability to control the motorcycle.

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

⚠ WARNING

Sudden side winds, which can occur when being passed by larger vehicles, at tunnel exits or in hilly areas, can upset your control.

Reduce your speed and be alert to side winds.

After moving the side stand to the fully up position, pull the clutch lever in and pause momentarily. Engage first gear by depressing the gear shift lever downward. Twist the throttle grip toward you and at the same time release the clutch lever gently and smoothly. As the clutch engages, the motorcycle will start moving forward. To shift to the next higher gear, accelerate gently, then close the throttle and pull the clutch lever in simultaneously. Lift the gear shift lever upward to select the next gear, release the clutch lever and open the throttle again. Select higher gears in this manner until top gear is reached.

NOTE: This motorcycle is equipped with a side stand/ignition interlock switch. If you shift the transmission into gear when the side stand is down, the engine will stop running.

USING THE TRANSMISSION

The transmission is provided to keep the engine operating smoothly in its normal operating speed range. The gear ratios have been carefully chosen to meet the characteristics of the engine. The rider should always select the most suitable gear for the prevailing conditions. Never slip the clutch to control road speed, but rather downshift to allow the engine to run within its normal operational range.

(For Canada)

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

Shifting up schedule

Gear position	km/h	miles/h
1st → 2nd	20	12
2nd → 3rd	30	19
3rd → 4th	40	25
4th → 5th	50	31
5th → 6th	60	37

Shifting down schedule

Gear position	km/h	miles/h
6th → 5th	50	31
5th → 4th	40	25
4th → 3rd	30	19

Disengage the clutch when the motorcycle speed drops below 20 km/h (12 miles/h).

⚠ 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 an accident; or
- force the engine to overrev in the lower gear, resulting in engine damage.

Reduce speed before downshifting.

⚠ 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.

CAUTION

Revvng the engine into the red zone can cause severe engine damage.

Never allow the engine to rev into the red zone in any gear.

RIDING ON HILLS

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 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, however, not to allow the engine to over rev.

STOPPING AND PARKING

1. 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.
4. Select neutral with the clutch lever squeezed toward the grip (disengaged position) just before the motorcycle stops. The neutral position can be confirmed by observing the neutral indicator light.

⚠ WARNING

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

Apply both brakes evenly and at the same time.

⚠ WARNING

Hard braking while turning may cause wheel skid and loss of control.

Brake before you begin to turn.

⚠ 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

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

Be sure you have a safe stopping distance between you and the vehicle in front of you.

- 5. Park the motorcycle on a firm, flat surface where it will not fall over.

⚠ WARNING

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

Park the motorcycle where pedestrians or children are not likely to touch the 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 engine.

- 6. Turn the ignition key to the "OFF" position.
- 7. Turn the handlebars all the way to the left and lock the steering fork security.
- 8. Remove the ignition key.

NOTE: If an optional anti-theft lock such as U-shape lock, brake disk lock and chain is used to avoid theft, be sure to remove anti-theft lock before moving the motorcycle.

INSPECTION AND MAINTENANCE

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INSPECTION AND MAINTENANCE

MAINTENANCE SCHEDULE

The chart indicates the intervals between periodic services in miles, kilometers and months. At the end of each interval, be sure to inspect, check, lubricate and service as instructed. If your motorcycle is used under high stress conditions such as continuous full throttle operation, or is operated in a dusty climate, certain services should be performed more often to ensure reliability of the machine as explained in the maintenance section. Your Suzuki dealer can provide you with further guidelines. Steering components, suspensions and wheel components are key items and require very special and careful servicing. For maximum safety we suggest that you have these items inspected and serviced by your authorized Suzuki dealer or a qualified service mechanic.

⚠ WARNING

Improper maintenance or failure to perform recommended maintenance increases the chance of an accident or motorcycle damage.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual. Ask your SUZUKI dealer or a qualified mechanic to do 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, have your SUZUKI dealer or a qualified mechanic do them.

⚠ WARNING

Running the engine indoors or in a garage can be hazardous. Exhaust gas contains carbon monoxide, a gas that is colorless and odorless and can cause death or severe injury.

Only run the engine outdoors where there is fresh air.

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.

CAUTION

Using poor quality replacement parts can cause your motorcycle to wear more quickly and may shorten its useful life.

Use only genuine Suzuki replacement parts or their equivalent.



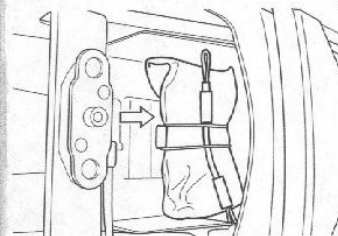
MAINTENANCE CHART

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

Element	Interval	km	1000	6000	12000	18000	24000
		miles	600	4000	7500	11000	14500
		months	2	12	24	36	48
Air cleaner element		-			R		
* Exhaust pipe bolts and muffler bolts		T	-	T	-	T	
* Valve clearance		-	-	-	-		
Spark plugs		-		R		R	
Fuel hose		-					
			*Replace every 4 years				
Engine oil		R	R	R	R	R	
Engine oil filter		R	-	-	R	-	
Idle speed							
Throttle cable play							
* Throttle valve synchronization		-	-		-		
* Engine coolant			Replace every 2 years				
Radiator hose		-					
Clutch hose		-					
			*Replace every 4 years				
Clutch fluid		-					
			*Replace every 2 years				
Drive chain							
			Clean and lubricate every 1000 km (600 miles)				
* Brakes							
Brake hose		-					
			*Replace every 4 years				
Brake fluid		-					
			*Replace every 2 years				
Tires		-					
* Steering			-		-		
* Front forks		-	-		-		
* Rear suspension		-	-		-		
* Chassis bolts and nuts		T	T	T	T	T	

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

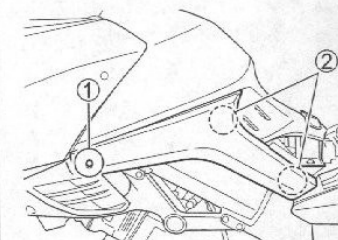
TOOLS



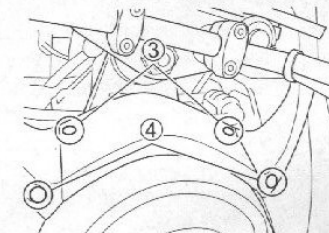
A tool kit is supplied and located under the seat.

FUEL TANK LIFT

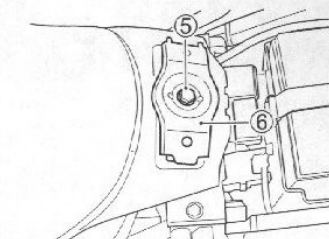
1. Place the motorcycle on the side stand.
2. Remove the seat.



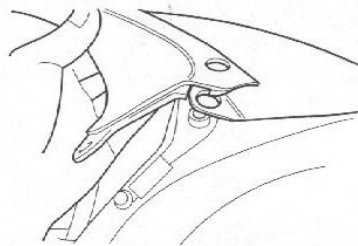
3. Remove the bolt ① and hooks ②. Remove the covers.



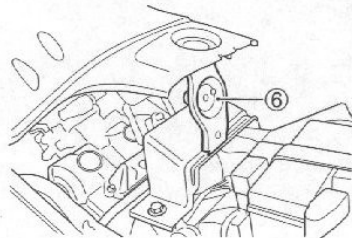
4. Remove the fasteners ③ and bolts ④.



5. Remove the bolt ⑤. Remove the prop ⑥.



6. Raise the covers with hand to separate the covers.



7. Support the fuel tank with the prop ⑥.

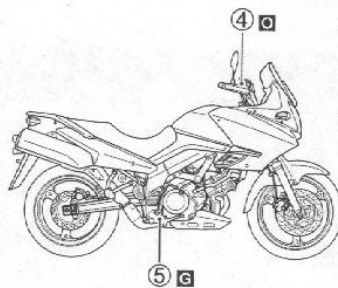
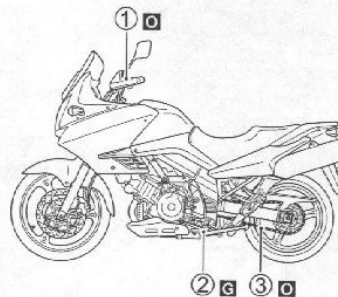
LUBRICATION POINTS

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

CAUTION

Lubricating switches can damage the switches.

Do not apply grease and oil to the switches.



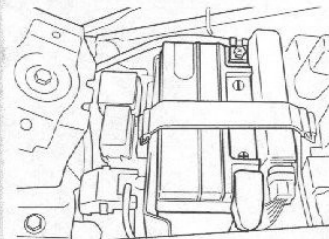
- ① ... Motor oil
- ② ... Grease

- ③ ... Clutch lever holder
- ④ ... Side stand pivot and spring hook
- ⑤ ... Drive chain
- ⑥ ... Throttle cable and brake lever holder
- ⑦ ... Brake pedal pivot and footrest pivot

BATTERY

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

The standard charging rate is 1.4A x 5 to 10 hours and the maximum rate is 6.0A x 1 hour. Never exceed maximum charging rate.



WARNING

Hydrogen gas produced by batteries can explode if exposed to flames or sparks.

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

CAUTION

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

Never exceed the maximum charging rate.

CAUTION

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

The red lead must go to the positive (+) terminal and the black (or black with white tracer) lead must go to the negative (-) terminal.

AIR CLEANER

The air cleaner is located under the fuel tank. If the element has become clogged with dust, intake resistance will increase with a resultant decrease in power output and an increase in fuel consumption. If driving under dusty conditions, the air cleaner element must be cleaned or replaced more frequently than maintenance schedule. Check and clean the air cleaner element periodically according to the following procedure.

⚠ WARNING

Operating the engine without the air cleaner element in place could allow a flame to spit back from the engine to the air cleaner, or could allow dirt to enter the engine. This could cause a fire or severe engine damage.

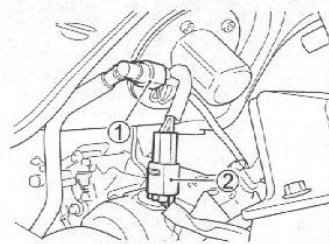
Never run the engine without the air cleaner element properly installed.

CAUTION

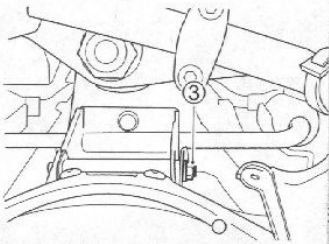
Clean or replace the air cleaner element frequently if the motorcycle is used in dusty, wet or muddy conditions. The air cleaner element will clog under these conditions, and this may cause engine damage, poor performance, and poor fuel economy.

Clean the air cleaner case and element immediately if water gets in the air cleaner box.

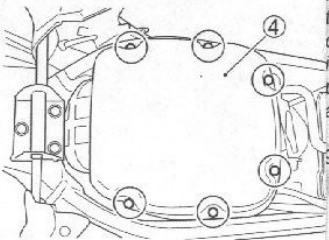
1. Lift the fuel tank by referring to the FUEL TANK LIFT section.



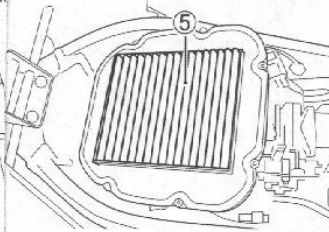
2. Disconnect the fuel hose ① and coupler ②.



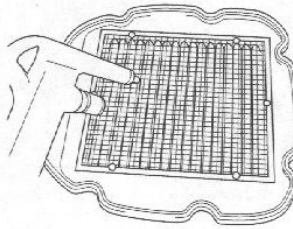
3. Remove the nut ③ and bolt.
4. Remove the fuel tank.



5. Remove the screws.
6. Pull out the air cleaner cover ④.



7. Remove the air cleaner element ⑤.



8. Carefully use an air hose to blow the dust from the air cleaner element.

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

9. Reinstall the cleaned element or new air cleaner element in reverse order of removal. Be absolutely sure that the element is securely in position and is sealing properly.

CAUTION

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

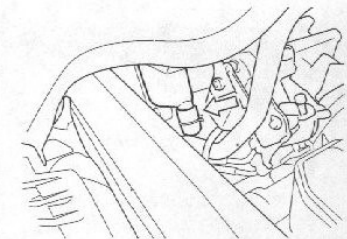
Carefully examine the air cleaner element for tears during cleaning. Replace it with a new one if it is torn.

CAUTION

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.

Air Cleaner Drain Plug



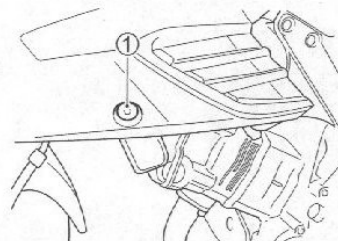
Remove the plug and drain water and oil at the periodic maintenance interval. The air cleaner drain plug is located beneath the air cleaner box.

SPARK PLUGS

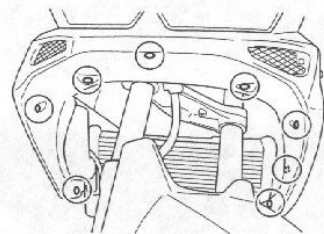
REMOVAL

To remove the spark plugs, follow the procedure below:

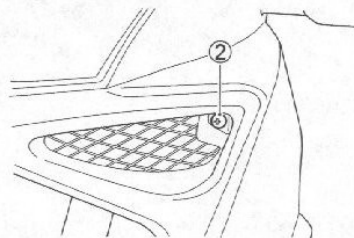
Front Side



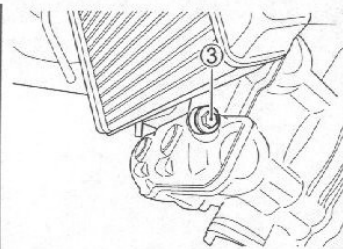
1. Remove the bolts ①.



2. Remove the fasteners.

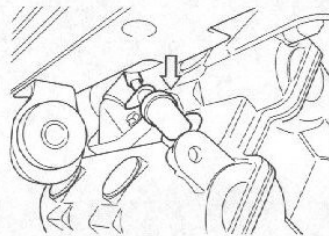


3. Remove the screws ②.



4. Remove the radiator mounting bolt ③ and slide the radiator forward.

NOTE: Do not extract the radiator hose.



5. Pull off the spark plug cap.
6. Remove the spark plug with spark plug wrench.

NOTE: Be careful not to damage the radiator fins.

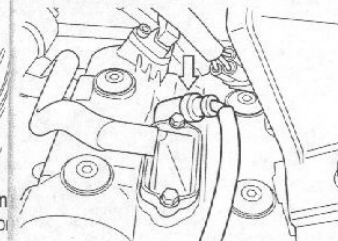
⚠ WARNING

A hot radiator and hot engine can burn you.

Wait until the radiator and engine are cool enough to touch with bare hands before starting this work.

Rear Side

1. Lift the fuel tank by referring to the FUEL TANK LIFT section.



2. Remove the spark plug with a spark plug wrench.

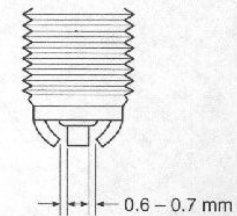
NOTE: Pry up the spark plug cap with a screwdriver or a bar if it is hard to remove by hand. Do not pull the spark plug cord.

CAUTION

Dirt can damage your engine if it enters an open spark plug hole.

Cover the spark plug hole whenever spark plug is removed.

INSPECTION



Adjust the spark plug gap to 0.6 – 0.7 mm (0.024 – 0.028 in) by using a spark plug gap thickness gauge. The spark plug should be replaced every 12000 km (7500 miles).

Whenever removing the carbon deposits, be sure to observe the operational color of each spark plug's porcelain tip. This color tells you whether or not the standard spark plug is suitable for your type of usage. A normal operating spark plug should be very light brown in color. If the spark plug is very white or glazed appearing, it has been operating much too hot. This spark plug should be replaced with the colder plug.

Plug Replacement Guide

CAUTION

An improper spark plug may have an incorrect fit or heat range for your engine. This may cause severe engine damage which will not be covered under warranty.

Use one of the spark plugs listed below or equivalent. Consult your Suzuki dealer or a qualified mechanic if you are not sure which spark plug is correct for your type of usage.

NGK	DENSO	REMARKS
CR7EK	U22ETR	If the standard plug is apt to get wet, replace with this plug.
CR8EK	U24ETR	Standard
CR9EK	U27ETR	If the standard plug is apt to overheat, replace with this plug.

NOTE: This motorcycle uses resistor-type spark plug to avoid jamming electronic parts. Improper spark plug selection may cause electronic interference with your motorcycle's ignition system, resulting in motorcycle performance problems. Use only the recommended spark plugs.

Installation

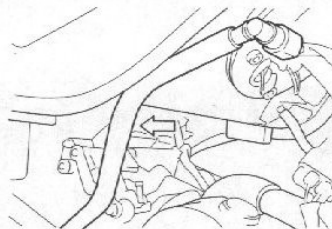
CAUTION

A crossthreaded or overtightened spark plug will damage the aluminum threads of the cylinder head.

Follow the procedure below to tighten the spark plug properly.

Carefully turn the spark plug by hand into the threads until it is finger tight. If the spark plug is new, tighten it with wrench about 1/2 turn past finger tight. If you are reusing the old spark plug, tighten it with a wrench about 8 turn past finger tight.

FUEL HOSE



Inspect the fuel hose for damage and fuel leakage. If any defects are found the fuel hose must be replaced.

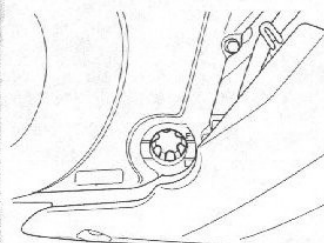
ENGINE OIL

Long engine life depends much on the selection of a quality oil and the periodic changing of the oil. Daily oil level checks and periodic changes are two of the most important maintenance items to be performed.

ENGINE OIL LEVEL CHECK

Follow the procedure below to inspect the engine oil level.

1. Start the engine and run it for a few minutes.
2. Stop the engine and wait for three minutes.



3. Hold the motorcycle vertically and inspect the engine oil level through the engine oil level inspection window on the right side of the engine.

CAUTION

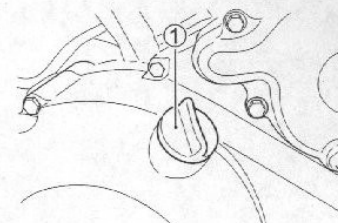
The engine oil level must be between the "L" (Low) line and "F" (Full) line, or engine damage may occur.

Check the oil level, through the inspection window, with the motorcycle held vertically on level ground before each use of the motorcycle.

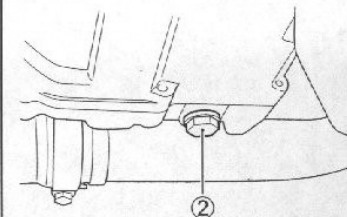
ENGINE OIL AND FILTER CHANGE

Change the engine oil and oil filter at the initial 1000 km (600 miles) and at each maintenance interval. The oil should be changed when the engine is warm so that the oil will drain thoroughly from the engine. The procedure is as follows:

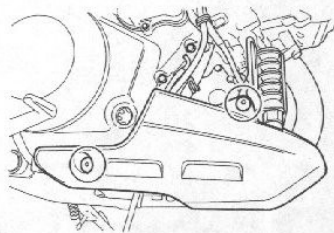
1. Place the motorcycle on the side stand.



2. Remove the oil filler cap (1).



3. Place a drain pan under the drain plug (2).
4. Remove the drain plug with a wrench and drain out the engine oil.



5. Remove the bolts and cover.

⚠ WARNING

Engine oil and exhaust pipes can be hot enough to burn you.

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

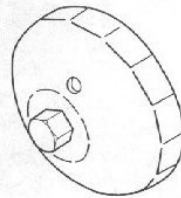
⚠ WARNING

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

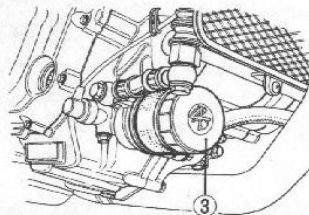
- Keep new and used oil away from children and pets.
- Wear a long-sleeve shirt and waterproof gloves.
- Wash with soap if oil contacts your skin.

NOTE: Recycle or properly dispose of used oil.

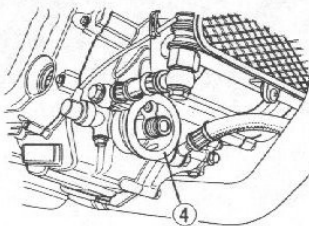
6. Reinstall the drain plug and gasket. Tighten the plug securely with a wrench.



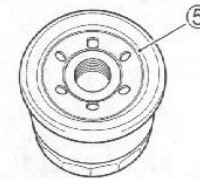
Available from Suzuki dealer
Oil filter wrench (Part No. 09915-40610)



7. Turn the oil filter ③ counterclockwise with a Suzuki "cap type" oil filter wrench or a "strap type" filter wrench of the proper size.



8. Wipe off the mounting surface ④ on the engine where the new filter will be seated with a clean rag.



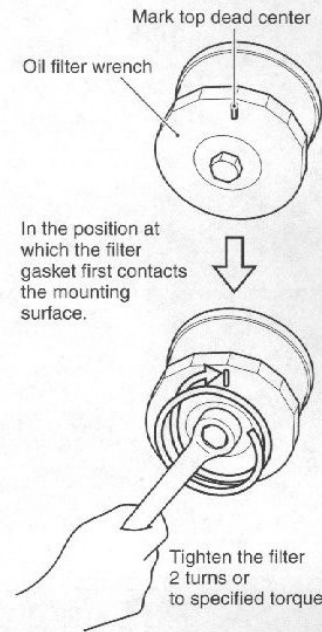
9. Smear a little engine oil around the rubber gasket ⑤ of the new oil filter.
10. Screw the new filter by hand until the filter gasket contacts the mounting surface (a small resistance will be felt).

CAUTION

Using an oil filter with the wrong design or thread specifications can cause oil leaks or engine damage.

Use a genuine SUZUKI oil filter or an equivalent filter 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.



11. 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, 14.5 lb·ft)

12. Pour 2900 ml (3.1/2.6 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 FUEL, ENGINE OIL AND COOLANT RECOMMENDATIONS section.

NOTE: About 2700 ml (2.9/2.4 US/Imp. qt) of oil will be required when changing oil only.

CAUTION

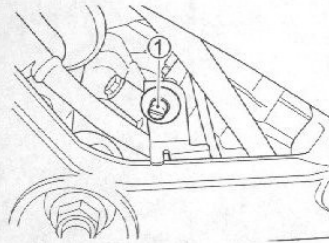
Engine damage may occur if you use oil that does not meet Suzuki's specifications.

Use the oil specified in the FUEL, ENGINE OIL AND COOLANT RECOMMENDATIONS section.

13. With the engine running, look carefully for leaks at the oil filter and drain plug. Run the engine at various speeds for 2 to 3 minutes.
14. Stop the engine and wait a for three minutes. Check the oil level again. Engine oil level can be inspected through the inspection window while holding the motorcycle vertically. If the oil level is lower than the "F" line, add new oil until it reaches the "F" line. Check for leaks again.

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

IDLE SPEED



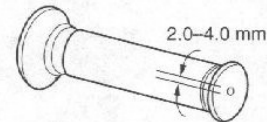
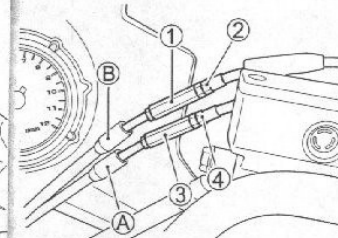
Adjust the engine idle speed periodically with the engine at normal operating temperature.

To adjust the idle speed:

1. Start up the engine and let the engine run until it warms up fully.
2. After engine warms up, turn the throttle stop screw knob ① in or out so that engine may run at 1100 – 1300 r/min.

NOTE: The idle speed should be adjusted with the engine fully warmed up.

THROTTLE CABLE PLAY



This motorcycle has a twin throttle cable system. Cable A is for pulling and cable B is for returning.

To adjust the cable play:

1. Loosen the lock nut ①.
2. Turn in the adjuster ② fully.
3. Loosen the lock nut ③.
4. Turn the adjuster ④ so that the throttle grip has 2.0 – 4.0 mm (0.08 – 0.16 in) play.
5. Tighten the lock nut ③.
6. While holding the throttle grip at the closed position, turn out the adjuster ② to feel resistance.
7. Tighten the lock nut ①.

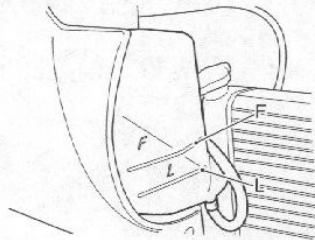
WARNING

Inadequate throttle cable play can cause engine speed to rise suddenly when you turn the handlebar. This can lead to loss of rider control.

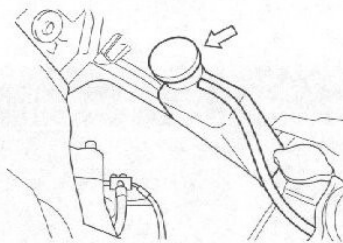
Adjust the throttle cable play so that engine idle speed does not rise due to handlebar movement.

COOLANT

COOLANT LEVEL



The coolant should be kept between the "F" (FULL) and "L" (LOW) level lines in the reservoir tank at all times. Inspect the level every time before riding while the motorcycle vertically. If the coolant is found lower than the "L" level line, add properly mixed coolant in the following way:



Remove the filler cap and add properly mixed coolant through the filler hole until it reaches the "F" line. Refer to the FUEL, ENGINE OIL AND COOLANT RECOMMENDATION section.

⚠ WARNING

Engine coolant is harmful if swallowed or if it comes in contact with your skin or eyes.

Keep engine coolant away from children and pets. Call your physician immediately if engine coolant is swallowed, and induce vomiting. Flush eyes or skin with water if engine coolant gets in eyes or comes in contact with skin.

NOTE: Adding only water will dilute the engine coolant and reduce its effectiveness. Add a 50:50 mixture of engine coolant and water.

CHANGING THE COOLANT

Change the coolant every two years.

NOTE: About 2200 ml (2.3/1.9 US Imp. qt) of coolant will be required when filling the radiator and reservoir tank.

DRIVE CHAIN

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 or a qualified mechanic 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 guide lines for inspecting and servicing the chain.

⚠ WARNING

Riding with the chain in poor condition or improperly adjusted can lead to an accident.

Inspect, adjust, and maintain the chain properly before each ride, according to this section.

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

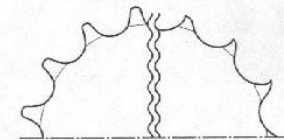
If you find anything wrong with the drive chain condition or adjustment, correct the problem if you know how. If necessary, consult your authorized Suzuki dealer or a qualified mechanic.

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 problems with your sprocket, consult your Suzuki dealer or a qualified mechanic.

Good Worn



NOTE: The two sprockets should be inspected for wear when a new chain is installed and replaced if necessary.

⚠ 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 an accident 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

This drive chain has special "O" rings that permanently seal grease inside. Clean and oil the chain periodically, as follows:

1. Clean the chain with kerosene. If the chain tends to rust, the interval must be shortened. Kerosene is a petroleum product and will provide some lubrication as well as cleaning action.

⚠ WARNING

Kerosene can be hazardous. Kerosene is flammable. Children or pets may be harmed from contact with kerosene.

Keep flames and smoking materials away from kerosene. Keep children and pets away from kerosene. If swallowed, do not induce vomiting. Call a physician immediately. Dispose of used kerosene properly.

CAUTION

Cleaning the chain with gasoline or commercial cleaning solvents can damage O-rings and ruin the chain.

Clean the drive chain with kerosene only.

2. After thoroughly washing the chain and allowing it to dry, oil the links with Suzuki chain lube or an equivalent chain lubricant.

CAUTION

Some drive chain lubricants contain solvents and additives which could damage the O-rings in your chain.

Use Suzuki chain lube or an equivalent chain lubricant that is specifically intended for use with O-ring chains.

DRIVE CHAIN ADJUSTMENT

Adjust the drive chain slack to the proper specification. The chain may require more frequent adjustment than periodic maintenance schedule depending upon your riding conditions.

⚠ WARNING

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

Inspect and adjust the drive chain slack before each use.

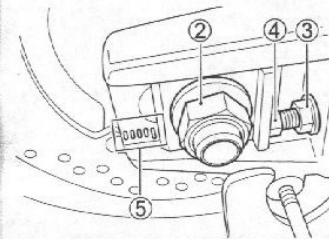
To adjust the drive chain, follow the procedure below:

⚠ WARNING

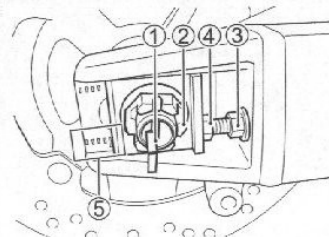
A hot muffler can burn you. The muffler will be hot enough to burn you for some time after stopping the engine.

Wait until the muffler cools to avoid burns.

1. Place the motorcycle on the side stand.

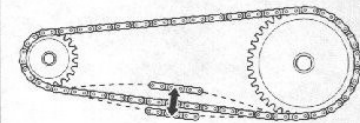


Except for Canada



For Canada

2. (Only for Canada) Remove the cotter pin ①.
3. Loosen the axle nut ②.
4. Loosen the lock nut ③ (right and left).

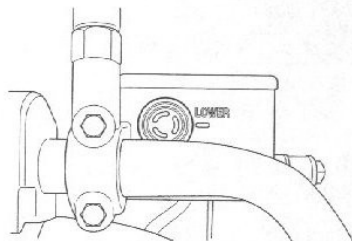


20 - 30 mm

5. Adjust the drive chain slack by turning the right and left chain adjuster bolts ④. 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 ⑤ on the swing arm 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 lock nut ③ (right and left).
7. Tighten the axle nut ② securely.
8. (Only for Canada) Replace the cotter pin with a new one.
9. Recheck the chain slack after tightening and readjust if necessary.

Rear axle nut tightening torque:
100 N·m (10.0 kgf·m, 72.5 lb·ft)

CLUTCH



The clutch release mechanism of this motorcycle is operated by hydraulic pressure. There is no adjustment needed on the clutch release system because the system is self adjusting. However, inspect the following each time before driving to make sure that the system is in good condition and functioning properly.

- Fluid level in the reservoir to be above "LOWER" line.
- No fluid leakage.
- Smooth and sure action of clutch lever.

⚠ WARNING

Brake fluid is harmful or fatal if swallowed, and harmful if it comes in contact with skin or eyes.

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

⚠ WARNING

Failure to keep the clutch fluid reservoir full with the proper brake fluid can be hazardous. The clutch may not work correctly without the proper amount and type of brake fluid. This could lead to an accident.

Inspect the clutch fluid level before each use. Use only DOT4 brake fluid from a sealed container. Never use or mix different types of brake fluid. If there is frequent loss of fluid, take your motorcycle to a Suzuki dealer or a qualified mechanic for inspection.

CAUTION

Spilled brake fluid can damage painted surfaces and plastic parts.

Avoid spilling any fluid when filling the reservoir. Wipe up spills immediately.

BRAKES

This motorcycle utilizes front and rear disk brakes. Proper operation of brake systems are vital to safe riding. Be sure to perform the brake inspection requirements as scheduled.

BRAKE SYSTEM

⚠ WARNING

Failure to inspect and properly maintain the brakes increases your chance of having an accident.

Inspect the brake system before each use according to the INSPECTION BEFORE RIDING section. Follow the MAINTENANCE SCHEDULE section to maintain your brake system.

Inspect your brake system for the following items daily:

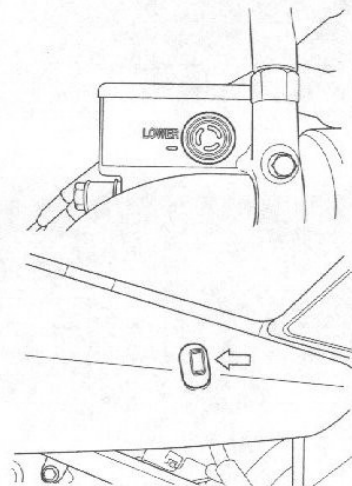
- Inspect the fluid level in the reservoirs.
- Inspect the front and rear brake system for signs of fluid leakage.
- Inspect the brake hose for leakage or a cracked appearance.
- The brake lever and pedal should have the proper stroke and be firm at all times.
- Check the wear of the disk brake pads.

BRAKE FLUID

⚠ WARNING

Brake fluid is harmful or fatal if swallowed, and harmful if it comes in contact with skin or eyes.

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



Check the brake fluid level in both the front and rear brake fluid reservoirs. Inspect for brake pad wear and leaks.

⚠ WARNING

Failure to keep the brake fluid reservoir full with proper brake fluid can be hazardous. The brakes may not work correctly without the proper amount and type of brake fluid. This could lead to an accident.

Inspect the brake fluid level before each use. Use only DOT4 brake fluid from a sealed container. Never use or mix different types of brake fluid. If there is frequent loss of fluid, take your motorcycle to a SUZUKI dealer or a qualified mechanic for inspection.

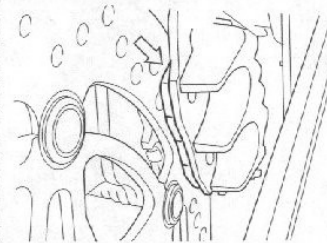
CAUTION

Spilled brake fluid can damage painted surfaces and plastic parts.

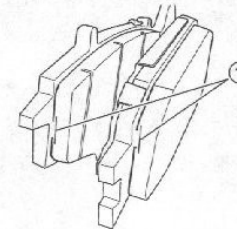
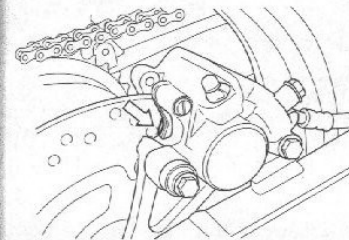
Avoid spilling any fluid when filling the reservoir. Wipe up spills immediately.

BRAKE PADS

FRONT



REAR



Inspect the front and rear brake pads by noting whether or not the friction pads are worn down to the grooved limit line ①. If a front or rear pad is worn to the grooved limit line both front or both rear pads must be replaced with new ones by your authorized Suzuki dealer or a qualified service mechanic.

⚠ WARNING

Riding with worn brake pads will reduce braking performance and will increase your chance of having an accident.

Inspect brake pad wear before each use. Ask your SUZUKI dealer or a qualified mechanic to replace brake pads if any pad is worn to the limit.

⚠ WARNING

Failure to extend brake pads after repair or replacement can cause poor braking performance and may result in an accident.

Before riding, "pump" the brake lever/pedal repeatedly until the brake pads are pressed against the brake disks and proper lever/pedal stroke and firm feel are restored.

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.

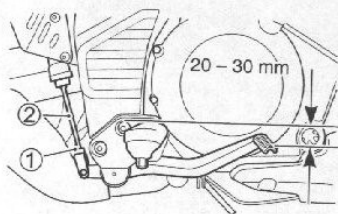
⚠ WARNING

Replacing only one or the two brake pads can result in uneven braking action.

Replace both pads together.

REAR BRAKE PEDAL ADJUSTMENT

The rear brake pedal position must be properly adjusted at all times or the disk brake pads will rub against the disk causing damage to the pads and to the disk surface. Adjust the brake pedal position in the following manner:



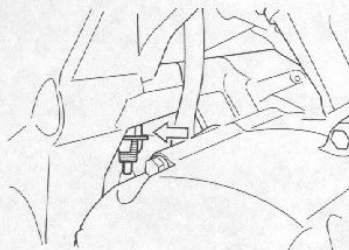
1. Loosen the lock nut ①, and rotate push rod ② to locate the pedal 20 – 30 mm (0.8 – 1.2 in) below the top face of the footrest.
2. Retighten the lock nut ① to secure the push rod ② in the proper position.

CAUTION

An incorrectly adjusted brake pedal may force brake pads to rub against the disk at all times, causing damage to the pads and disk.

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

REAR BRAKE LIGHT SWITCH



To adjust the brake light switch, raise or lower the switch so that the brake light will come on just before a pressure rise is felt when the brake pedal is depressed.

TIRES

▲ WARNING

Failure to follow these warnings may result in an accident due to tire failure. The tires on your motorcycle form the crucial link between your motorcycle and the road.

Follow these instructions:

- Check tire condition and pressure, and adjust pressure before each ride.
- 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.

▲ 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 referring to the BREAK-IN section and avoid hard acceleration, hard cornering, and hard braking for the first 160 km (100 miles).

TIRE PRESSURE AND LOADING

Proper tire pressure and proper tire loading are important factors. Overloading your tires can lead to tire failure and loss of vehicle control.

Check tire pressure each day before you ride, and adjust tire pressure and be sure the pressure is correct for the vehicle load according to the table below. Tire pressure should only be checked and adjusted before riding, since riding will heat up the tires and lead to higher inflation pressure readings.

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.

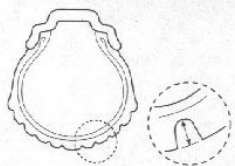
Cold Tire Inflation Pressure

LOAD	SOLO RIDING	DUAL RIDING
FRONT	250 kPa 2.50 kg/cm ² 36 psi	250 kPa 2.50 kg/cm ² 36 psi
REAR	250 kPa 2.50 kg/cm ² 36 psi	280 kPa 2.80 kg/cm ² 41 psi

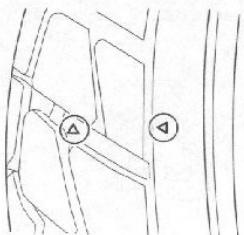
NOTE: When you detect drops in tire pressure, check the tire for nails or other punctures, or a damaged wheel rim. Tubeless tires sometimes lose pressure gradually when punctured.

TIRE CONDITION AND TYPE

Proper tire condition and proper tire type affect vehicle performance. Cuts or cracks in the tires can lead to tire failure and loss of vehicle control. Worn tires are susceptible to puncture failures and subsequent loss of vehicle control. Tire wear also affects the tire profile, changing vehicle 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.



NOTE: The "Δ" 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.

When you replace a tire, be sure to replace it with a tire of the size and type listed below. If you use a different size or type of tire, vehicle handling may be adversely affected, possibly resulting in loss of vehicle control.

	FRONT	REAR
SIZE	110/80 R19 M/C (59H)	150/70 R17 M/C (69H)
TYPE	BRIDGESTONE TW101F	BRIDGESTONE TW152F

Be sure to balance the wheel after repairing a puncture or replacing the tire. Proper wheel balance is important to avoid variable wheel-to-road contact, and to avoid uneven tire wear.

⚠ WARNING

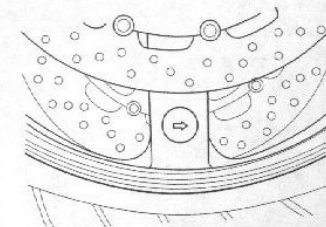
An improperly repaired, installed, or balanced tire can cause loss of control or shorten tire life.

- 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.

⚠ WARNING

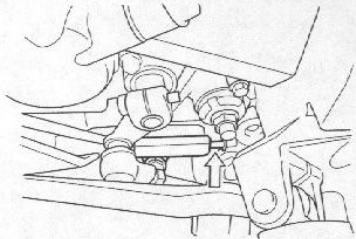
Failure to follow these instructions about tubeless tires may result in an accident due to tire failure. Tubeless tires require different service procedures than tube tires.

- Tubeless tires require an airtight seal between the tire bead and wheel rim. Special tire irons and rim protectors or a specialized tire mounting machine must be used for removing and installing tires to prevent tire or rim damage which could result in an air leak.
- Repair punctures in tubeless tires by removing the tire and applying an internal patch.
- Do not use an external repair plug to repair a puncture since the plug may work loose as a result of the cornering forces experienced by a motorcycle tire.
- After repairing a tire, do not exceed 80 km/h (50 mph) for the first 24 hours, 130 km/h (80 mph) thereafter. This is to avoid excessive heat build-up which could result in a tire repair failure and tire deflation.
- Replace the tire if it is punctured in the sidewall area, or if a puncture in the tread area is larger than 6 mm (3/16 in). These punctures cannot be repaired adequately.



NOTE: The wheel has arrow marks showing the rotating direction. The arrow marks on the tire and on the wheel should be in the same direction.

SIDE STAND/IGNITION INTERLOCK SWITCH



Check the side stand/ignition interlock switch 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.
3. While continuing to hold the clutch in, move the side stand to the down position.

If the engine stops running when the side stand is moved to the down position, then the side stand/ignition interlock switch 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 switch is not working properly. Have your motorcycle inspected by an authorized Suzuki dealer or a qualified service mechanic.

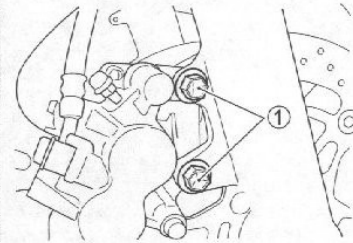
⚠ WARNING

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.

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.

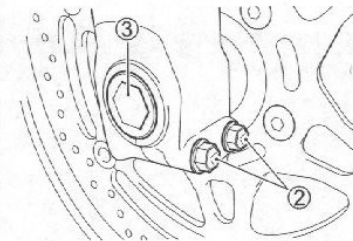
FRONT WHEEL REMOVAL

1. Place the motorcycle on the side stand.



2. Remove both brake calipers from the front forks by removing two mounting bolts ① on each of the calipers.

NOTE: Never squeeze the front 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.



3. Loosen the two axle holder bolts ② on the right front fork.
4. Loosen the axle shaft ③ temporarily.

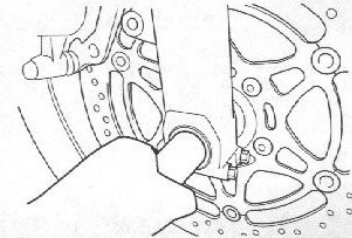
NOTE: A special tool is necessary to loosen the shaft ③. The special tool is available at Suzuki dealer.

5. Place an accessory service stand or equivalent under the swing arm to help stabilize the rear end.
6. Carefully position a jack under the exhaust pipe and raise the jack until the front wheel is slightly off the ground.

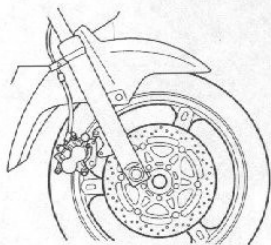
CAUTION

Improper jacking may cause damage to the fairing or oil filter.

Do not apply the jack head to the fairing lower part or the oil filter when jacking up the motorcycle.



7. Turn the axle shaft counterclockwise and draw it out.



8. Slide the front wheel forward.
9. To reinstall the wheel assembly, reverse the sequence described above.
10. After installing the wheel, apply the front brake several times to restore the proper lever stroke.

⚠ WARNING

Failure to extend brake pads after installing the wheel can cause poor braking performance and may result in an accident.

Before riding, "pump" the brake repeatedly until the brake pads are pressed against the brake disks and proper lever stroke and firm feel are restored. Also check that the wheel rotates freely.

⚠ 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 in the specified direction, as indicated by the arrow on the sidewall of the tire.

⚠ WARNING

Failure to torque bolts and nuts properly could lead to an accident.

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.

Front axle tightening torque:
100 N·m (10.0 kgf-m, 72.5 lb-ft)

Front axle holder bolt tightening torque:
23 N·m (2.3 kgf-m, 16.5 lb-ft)

Front brake caliper mounting bolt tightening torque:
39 N·m (3.9 kgf-m, 28.0 lb-ft)

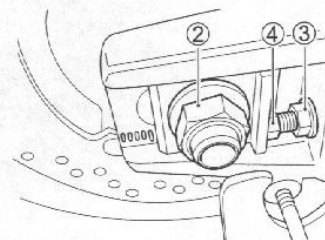
REAR WHEEL REMOVAL

⚠ WARNING

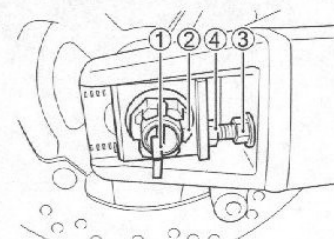
A hot muffler can burn you. The muffler will be hot enough to burn you for some time after stopping the engine.

Wait until the muffler cools to avoid burns.

1. Place the motorcycle on the side stand.



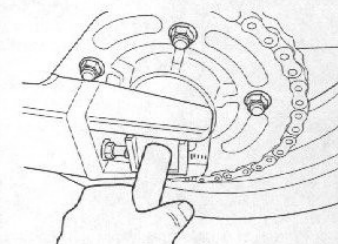
Except for Canada



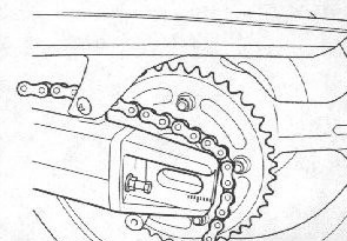
For Canada

2. (Only for Canada) Remove the cotter pin ①.
3. Remove the axle nut ②.
4. Place an accessory service stand or equivalent under the swing arm to lift the rear wheel slightly off the ground.

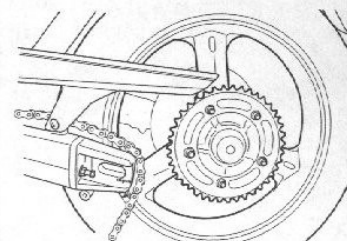
5. Loosen the lock nut ③ (right and left). Turn the chain adjusting bolts ④ clockwise (right and left).



6. Draw out the axle shaft.



7. With the wheel moved forward, remove the chain from the sprocket.



8. Pull the rear wheel assembly 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.

9. To replace the wheel reverse the complete sequence listed.
10. (Only for Canada) Replace the cotter pin with a new one.
11. After installing the wheel, apply the brake several times and then check that the wheel rotates freely.

⚠ WARNING

Failure to adjust the drive chain and failure to torque bolts and nuts properly could lead to an accident.

- Adjust the drive chain as described in **DRIVE CHAIN ADJUSTMENT** section after installing the rear wheel.
- 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.

Rear axle nut tightening torque:
100 N·m (10.0 kgf·m, 72.5 lb·ft)

⚠ WARNING

Failure to extend brake pads after installing the wheel can cause poor braking performance and may result in an accident.

Before riding, "pump" the brake repeatedly until brake pads are pressed against the brake disks 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 on the table below. When replacing a burned out bulb, always use the exact same wattage rating. Using other than the specified rating can result in overloading the electrical system or premature failure of a bulb.

CAUTION

Using a light bulb with the wrong wattage rating can cause electrical system damage or shorten bulb life.

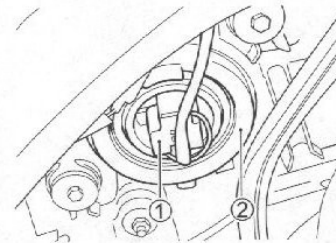
Always use the specified light bulb.

Headlight	12V 60/55W (H4) × 2
Position light	12V 5W* × 2
Turn signal light	12V 21W × 4
Brake light/Tail light	12V 21/5W × 2
License plate light	12V 5W

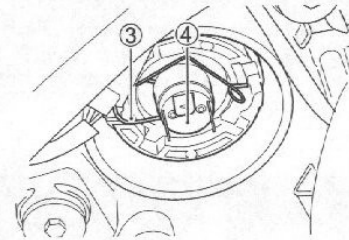
* Except for Canada and Australia

HEADLIGHT

To replace the headlight bulb, perform the following step:



1. Disconnect the socket ① from the headlight and remove the rubber cap ②.



2. Unhook the bulb holder spring ③ and pull out the bulb ④.

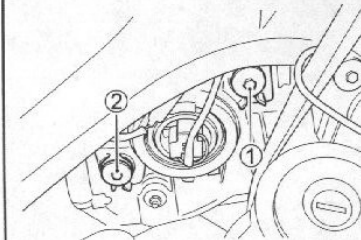
CAUTION

Oil from your skin may damage the headlight bulb or shorten its life.

Grasp the new bulb with a clean cloth.

HEADLIGHT BEAM ADJUSTMENT

The headlight beam can be adjusted both horizontally and vertically if necessary.



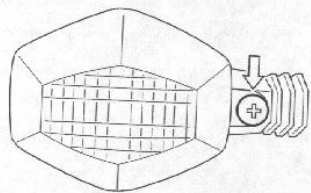
To adjust the beam horizontally:
Turn the adjuster ① clockwise or counterclockwise.

To adjust the beam vertically:
Turn the adjuster ② clockwise or counterclockwise.

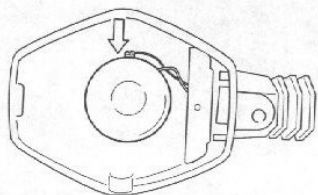
NOTE: To adjust the headlight beam, adjust the beam horizontally first, then adjust vertically.

TURN SIGNAL LIGHT

To replace the turn signal light bulb, follow these directions.



1. Remove the screw and take off the lens.



2. Push in on the bulb, twisting it to the left, and pull it out.

CAUTION

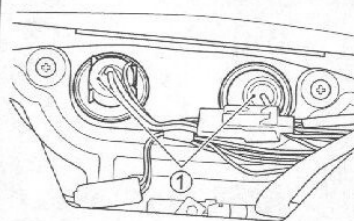
Overtightening the screws when reinstalling the lens may cause the lens to crack.

Tighten the screws only until they are snug.

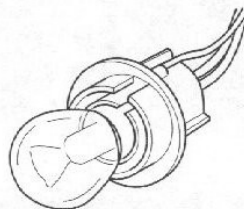
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BRAKE LIGHT/TAILLIGHT

To change the brake light/taillight bulb, perform the following steps:



1. Turn the socket ① counterclockwise and remove it.



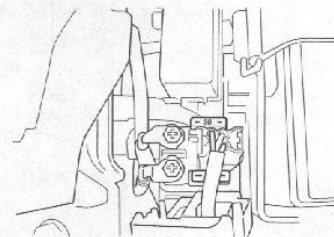
2. Push in the bulb, twist it to the left and pull it off.

CAUTION

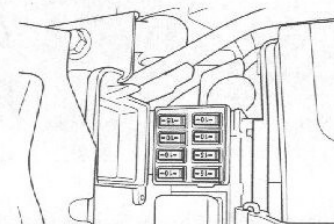
Overtightening the screws when reinstalling the lens may cause the lens to crack.

Tighten the screws only until they are snug.

FUSES



The main fuse is located under the seat. One 30A spare fuse is located inside the fuse box.



The fuses are located under the seat. Two spare fuses (10A and one 15A) are provided inside the fuse box.

The fuses are designed to open when a circuit overload exists in individual electrical system circuits. If any electrical system fails to operate, then the fuses must be checked.

CAUTION

Installing a fuse of incorrect rating or using aluminum foil or wire instead of a fuse may seriously damage the electrical system.

Always replace a blown fuse with a fuse of the same type and rating. If the new fuse blows in a short time, consult your Suzuki dealer or a qualified mechanic immediately.

FUSE LIST

- 30A MAIN fuse protects the horn, indicator lights, turn signal lights, *position lights, taillight and license light.
- 15A HEAD-HI fuse protects the headlight high beam and high beam indicator light.
- 15A HEAD-LO fuse protects the headlight low beam.
- 10A FUEL fuse protects the ECU, instrument panel lights, fuel pump and injectors.
- 10A IGNITION fuse protects the *oxygen sensor, ECU, *PAIR solenoid, fuel pump relay, starter relay and ignition coils.
- 15A SIGNAL fuse protects the turn signal lights, brake/taillight, license light, *position lights, instrument panel lights and indicator lights.
- 15A FAN fuse protects the cooling fan motor.

* Except for Canada and Australia

6-37

TROUBLESHOOTING

FUEL SUPPLY CHECK	7-2
IGNITION SYSTEM CHECK	7-2
ENGINE STALLING	7-3



TROUBLESHOOTING

This troubleshooting guide is provided to help you find the cause of some common complaints.

CAUTION

Failure to troubleshoot a problem correctly can damage your motorcycle. Improper repairs or adjustments may damage the motorcycle instead of fixing it. Such damage may not be covered under warranty.

If you are not sure about the proper action, consult your Suzuki dealer or a qualified mechanic about the problem.

If the engine refuses to start, perform the following inspections to determine the cause.

FUEL SUPPLY CHECK

If the meter indicates "FI", showing signs of trouble in the fuel injection system, take your machine to an authorized Suzuki dealer. Refer to the "INSTRUMENT PANEL" section for an explanation of the fuel injection system indicator. If the meter does not indicate "FI", make sure there is enough fuel in the fuel tank. If the meter does not indicate "FI" and there is enough fuel, the ignition system should be checked.

IGNITION SYSTEM CHECK

1. Remove the spark plugs and reattach them to the spark plug leads.
2. While holding the spark plug firmly against the crank case of the engine, push the starter switch with the ignition switch in the "ON" position, the engine stop switch in the "O" position, the transmission in neutral, and the clutch disengaged. If the ignition system is operating properly, a blue spark should jump across the spark plug gap.
3. If there is no spark, clean the spark plug. Replace it if necessary. Retry the above procedure with the cleaned spark plug or new one.
4. If there is still no spark, consult your Suzuki dealer for repairs.

WARNING

Performing the spark test improperly can cause a high voltage electrical shock or an explosion.

Avoid performing this check if you are not familiar with this procedure, or if you have a heart condition or wear a pacemaker. Keep the spark plug away from the spark plug hole during this test.

ENGINE STALLING

1. Make sure there is enough fuel in the fuel tank.
2. If the coolant temperature meter indicates "FI", showing signs of trouble in the fuel injection system, take your machine to an authorized Suzuki dealer. Refer to the "INSTRUMENT PANEL" section for an explanation of the fuel injection system indicator.
3. Check the ignition system for intermittent spark.
4. Check the idle speed. If necessary, adjust it using a tachometer. The correct idle speed is 1100 – 1300 r/min.



MOTORCYCLE CLEANING AND STORAGE PROCEDURE

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MOTORCYCLE CLEANING AND STORAGE PROCEDURE

MOTORCYCLE CLEANING

Washing the Motorcycle

When washing the motorcycle, follow the instruction below:

1. Remove dirt and mud from the motorcycle with running water. You may use a soft sponge or brush. Do not use hard materials which can scratch the paint.
2. Wash the entire motorcycle with a mild detergent or car wash soap using a sponge or soft cloth. The sponge or cloth should be frequently soaked in the soap solution.

CAUTION

Radiator and oil cooler fins can be damaged by spraying high pressure water on them.

Do not spray high pressure water on the radiator and oil cooler fins.

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

CAUTION

High pressure washers and parts cleaner can damage your motorcycle.

Do not use high pressure washers to clean your motorcycle. Do not use parts cleaner to throttle body and fuel injection sensors.

3. Once the dirt has been completely removed, rinse off the detergent with running water.
4. 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.

CAUTION

Cleaning with any alkaline or strong acid cleaner gasoline, brake fluid, or any other solvent will damage the motorcycle parts.

Clean only with soft cloth and warm water with mild detergent.

Windshield Cleaning

Clean the windshield with a soft cloth and warm water with a mild detergent. If scratched, polish with a commercially available plastic polish. Replace the windshield if it becomes scratched or discolored so as to obstruct view. When replacing the windshield, use a Suzuki replacement windshield.

Waxing the Motorcycle

After washing the motorcycle, waxing and polishing are recommended to further protect and beautify the paint.

- Only use waxes and polishes of good quality.
- When using waxes and polishes, observe the precautions specified by the manufacturers.

Inspection after Cleaning

For extended life of your motorcycle, lubricate according to "LUBRICATION POINTS" section.

▲ WARNING

Wet brakes can cause poor braking performance and may lead to an accident.

Avoid a possible accident by expecting longer stopping distances after washing your motorcycle. Apply brakes several times to let heat dry the brake pads or shoes.

Follow the procedures in the "INSPECTION BEFORE RIDING" section to check your motorcycle for any problems that may have arisen during your last ride.

STORAGE PROCEDURE

If the motorcycle is to be left unused for extended period of time for winter storage or any other reason, the machine needs special servicing requiring appropriate materials, equipment and skill. For this reason, Suzuki recommends that you trust this maintenance work to your Suzuki dealer. If you need to service the machine for storage yourself, follow the general guidelines below.

MOTORCYCLE

Clean the entire motorcycle. Place the motorcycle on the side stand on a firm, flat surface where it will not fall over. Turn the handlebars all the way to the left and lock the steering, and remove the ignition key.

FUEL

1. Fill the fuel tank to the top with fuel mixed with the amount of gasoline stabilizer recommended by the stabilizer manufacturer.
2. Run the engine for a few minutes until the stabilized gasoline fills the fuel injection system.

ENGINE

1. Pour one tablespoon of motor oil into each spark plug hole. Reinstall the spark plugs and crank the engine a few times.
2. Drain the engine oil thoroughly. Refill the crankcase with fresh engine oil all the way up to the filler hole.

BATTERY

1. Remove the battery from the motorcycle.

NOTE: Be sure to remove the negative terminal first, then remove the positive terminal.

2. Clean the outside of the battery with a mild detergent and remove any corrosion from the terminals and wiring harness connections.
3. Store the battery in a room above freezing.

TIRES

Inflate the tires to the normal specifications.

EXTERNAL

- Spray all vinyl and rubber parts with rubber preservative.
- Spray the unpainted surfaces with rust preventative.
- Coat the painted surfaces with car wax.

PROCEDURE DURING STORAGE

Once a month, recharge the battery with a specified charging rate (Ampere). Standard charging rate is 1.4A x 5 to 10 hours.

PROCEDURE FOR RETURNING TO SERVICE

- Clean the entire motorcycle.
- Reinstall the battery.

NOTE: Be sure to connect the positive terminal first, then connect the negative terminal.

- Remove the spark plugs. Turn the engine a few times by putting the transmission in top gear and turning the rear wheel. Reinstall the spark plugs.
- Drain the engine oil thoroughly. Replace the oil filter with a new one and pour fresh oil as outlined in this manual.
- Adjust the pressure of tires as described in the TIRES section.
- Lubricate all places as instructed in this manual.
- Do the "Inspection Before Riding" as listed in this manual.



SPECIFICATIONS

DIMENSIONS AND DRY MASS

Overall length	2295 mm (90.4 in)
Overall width	910 mm (35.8 in)
Overall height	1395 mm (54.9 in)
Wheelbase	1535 mm (60.4 in)
Ground clearance	165 mm (6.5 in)
Seat height	840 mm (33.1 in)
Dry mass	205 kg (458 lbs)

ENGINE

Type	4-stroke, Liquid-cooled, DOHC, 90° degree V-twin
Number of cylinders	2
Bore	98.0 mm (3.858 in)
Stroke	66.0 mm (2.598 in)
Displacement	996 cm ³ (60.8 cu. in)
Compression ratio	11.3 : 1
Fuel system	Fuel injection system
Air cleaner	Non-woven fabric element
Starter system	Electric
Lubrication system	Wet sump

DRIVE TRAIN

Clutch	Wet multi-plate type
Transmission	6-speed constant mesh
Gearshift pattern	1-down, 5-up
Primary reduction ratio	1.838 (57/31)
Gear ratios, Low	3.000 (36/12)
2nd	1.933 (29/15)
3rd	1.500 (27/18)
4th	1.227 (27/22)
5th	1.086 (25/23)
Top	0.913 (21/23)
Final reduction ratio	2.411 (41/17)
Drive chain	RK525 SMOZ7, 112 links

CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension	Link type, coil spring, oil damped
Front suspension stroke	160 mm (6.3 in)
Rear wheel travel	159 mm (6.3 in)
Caster	26° 30'
Trail	111 mm (4.4 in)
Steering angle	40° (right and left)
Turning radius	2.7 m (8.86 ft)
Front brake	Disk brake, twin
Rear brake	Disk brake
Front tire size	110/80 R19 M/C (59H), tubeless
Rear tire size	150/70 R17 M/C (69H), tubeless

ELECTRICAL

Ignition type	Electronic ignition (Transistorized)
Spark plug	NGK CR8EK or DENSO U24ETR
Battery	12V 43.2 kC(12 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30A
Fuse	15/15/10/10/15/15A
Headlight	12V 60/55W (H4) x 2
Position/Parking light	12V 5W x 2 ... Except for Canada and Australia
Brake light/Tail light	12V 21/5W x 2
License plate light	12V 5W
Turn signal light	12V 21W x 4
Speedometer light	LED
Tachometer light	LED
Turn signal indicator light	LED
Neutral indicator light	LED
High beam indicator light	LED
Over drive indicator light	LED
Coolant temperature indicator light	LED
Oil pressure indicator light	LED
Fuel injection indicator light	LED

CAPACITIES

Fuel tank	22.0 L (5.81/4.84 US/Imp. gal)
Engine oil, oil change	2700 ml (2.9/2.4 US/Imp. qt)
With filter change	2900 ml (3.1/2.6 US/Imp. qt)
Engine coolant	2.2 L (2.3/1.9 US/Imp. qt)

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