



# GSX1400

## OWNER'S MANUAL

Part No. 99011-42F54-01A  
November, 2005 (TK) EN

## 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.

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.

## 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.

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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, 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.
- Select an accessory which does not limit the freedom of rider movement.
- Select an electric accessory which does not exceed motorcycle's electrical system capacity. Severe overloads may damage the wiring harness or create hazardous situations.
- 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 204 kg (450 lbs). The accessory and cargo weight must never exceed 25 kg (55 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 6-25.
  - 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 the cargo is loaded or accessory is fitted.
  - Adjust suspension setting as necessary.



## MODIFICATION

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

## 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.

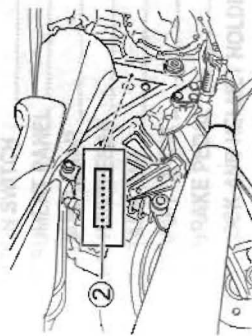
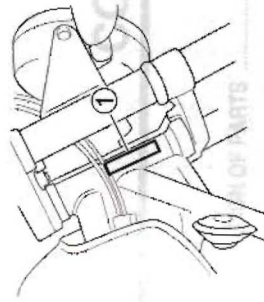
## BE EXTRA SAFETY CONSCIOUS ON BAD WEATHER DAYS

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:

- 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
- The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

## CONTROL SYSTEM PROHIBITED

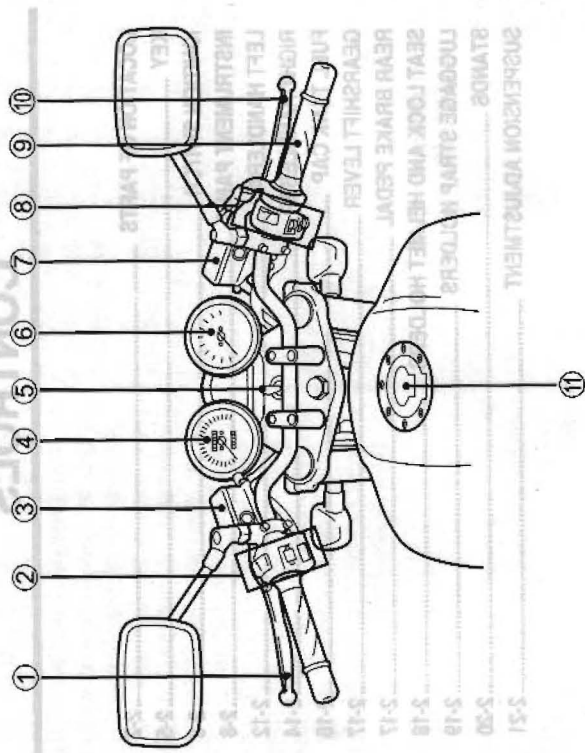
## CONTROLS

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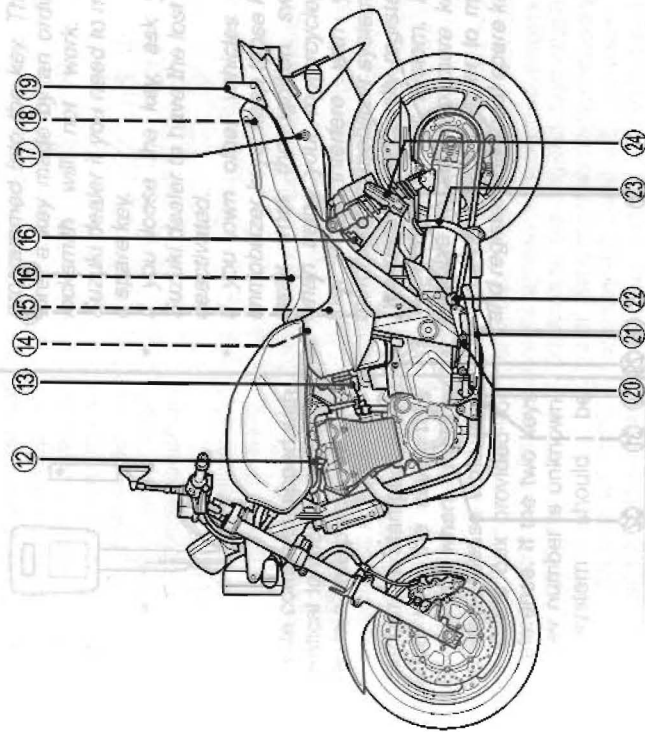


## CONTROLS

## LOCATION OF PARTS



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



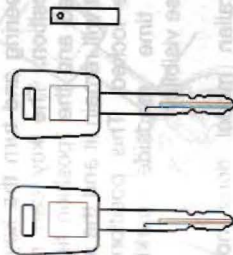
- ⑫ Spark plug
- ⑬ Throttle stop screw
- ⑭ Air cleaner
- ⑮ Battery
- ⑯ Helmet holders
- ⑰ Seat lock
- ⑱ Tools
- ⑲ Passenger grab handle
- ⑳ Gearshift lever
- ㉑ Side stand
- ㉒ Footrests
- ㉓ Center stand
- ㉔ Passenger footrests

- ㉕ Engine oil filler
- ㉖ Engine oil drain plug
- ㉗ Engine oil inspection window
- ㉘ Engine oil filler cap
- ㉙ Fuel pump lever
- ㉚ Fuel pump lever switch
- ㉛ Fuel pump lever and fuse

## KEY

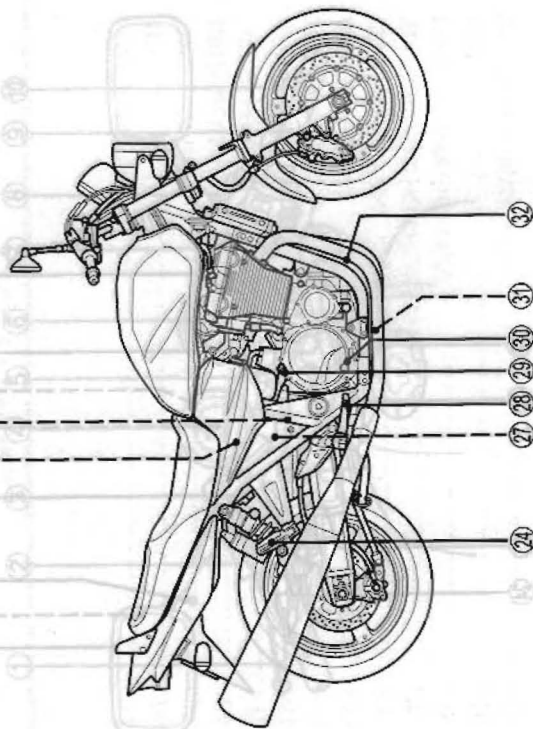
## NOTE:

- Immobilizer identification code is programmed into the key. Therefore, a key made by an ordinary locksmith will not work. Ask Suzuki dealer if you need to make a spare key.
- If you lose the key, ask your Suzuki dealer to have the lost one deactivated.
- If you own other vehicles with immobilizer keys, keep those keys away from the ignition switch when using your motorcycle, or they may interfere with your motorcycle immobilizer system.
- Two keys are originally registered to the immobilizer system. It is possible to add two more keys. Ask your Suzuki dealer to make and register additional spare keys.



This motorcycle comes equipped with a pair of identical ignition keys. 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. If the two keys are lost and key number is unknown, immobilizer system should be replaced.



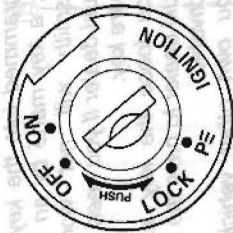
- 25 Main fuse and fuses
- 26 Rear brake light switch
- 27 Rear brake fluid reservoir
- 28 Rear brake pedal
- 29 Engine oil filler cap
- 30 Engine oil inspection window
- 31 Engine oil drain plug
- 32 Engine oil filter

- 33 Flight handbrake switches
- 34 Throttle grip
- 35 Front brake lever
- 36 Fuel tank cap

- 37 Passenger footrests
- 38 Center stand
- 39 Footrests
- 40 Side stand
- 41 Gearshift lever
- 42 Passenger grip handle
- 43 Tools
- 44 Seat lock
- 45 Helmet holders
- 46 Battery
- 47 Air cleaner
- 48 Throttle stop screw
- 49 Spark plug



## 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 handlebars 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.

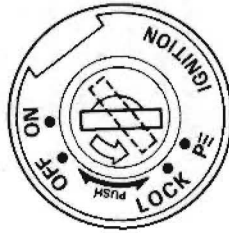
\* Australian model does not have position light.

## 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.

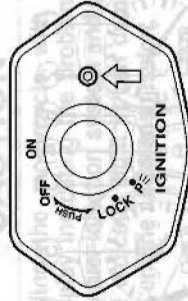
Stop the motorcycle and place it on the side stand or center stand before locking the steering. Never attempt to move the motorcycle when the steering is locked.

**NOTE:** The key hole can be covered by turning the lid for anti-theft purpose.



Turn the ignition switch to "LOCK" position and change the lid hole position when leaving your motorcycle.

## IMMOBILIZER INDICATOR

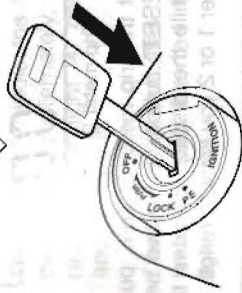
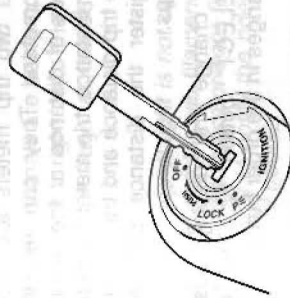


The immobilizer indicator blinks two times when the ignition switch is turned on. Then indicator comes on two seconds and goes off.

Immobilizer system is designed to help prevent motorcycle theft by electronically disabling the engine starting system. The engine can be started only with your original keys which have an electronic identification code programmed into it. The key communicates the identification code to the immobilizer controller when the key is turned to "ON" position.

### NOTE:

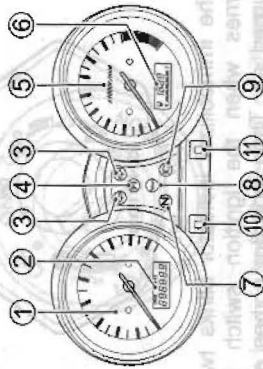
- It is impossible to start the engine when the indicator remains blinking.
- If the indicator remains blinking, it means immobilizer system communication error between key and immobilizer controller or use of wrong key. Turn off the ignition switch and then turn on to communicate immobilizer system properly.
- Two ignition keys are originally registered to the immobilizer system. It is possible to add two more keys. The indicator blinks numbers of registered key when the ignition switch is turned on.



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



## INSTRUMENT PANEL



## SPEEDOMETER ①

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

## ODOMETER/TRIP METER ②

The display in the speedometer has three 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 three seconds. Then the display changes to odometer or trip meter, as indicated before turning the ignition switch off.

ODO TRIP 12  
88888.8

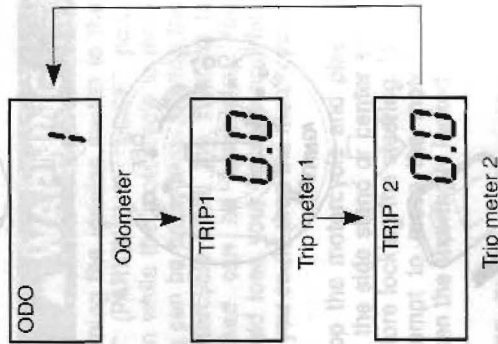
## Odometer

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 "SELECT" button ⑩. The display changes in the order below.



To reset the trip meter to zero, push the "RESET" button ⑪ 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.

## TURN SIGNAL INDICATOR LIGHT

③ 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 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 trouble.

## FUEL INJECTION SYSTEM INDICATOR ④



If the fuel injection system fails, the red indicator light ④ comes on and the display ② indicates "FI" in following two modes:

A. The display ② indicates "FI" and the odometer alternately, and the red indicator light ④ comes on and remains lit.

B. The display ② indicates "FI" continuously and the red indicator light ④ 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 the 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 qualified mechanic inspect the fuel injection system as soon as possible.

NOTE: If the display indicates "FI" and the coolant temperature 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.

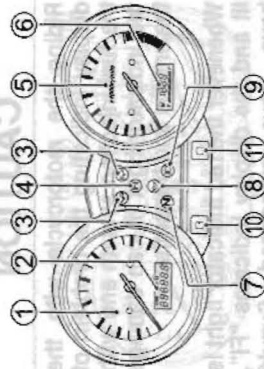
CHEC

When the display ② 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 above procedure, inspect the ignition fuse and connection of lead wire couplers.





**TACHOMETER ⑤**  
The tachometer indicates the engine speed in revolutions per minute (r/min).

#### CLOCK/FUEL METER ⑥

The display in the tachometer has two functions, clock and fuel meter.



#### Clock

The clock indicates 12-hour mode. Follow the procedure below to adjust the clock.

1. Push the buttons, ⑩ and ⑪, simultaneously until the minute display blinks.
2. Adjust the minute display by pushing the "RESET" button ⑪.

**NOTE:** When the "RESET" button ⑪ is held in the display advances continuously.

3. Push the "SELECT" button ⑩ to highlight the hour display.
4. Adjust the hour display by pushing the "RESET" button ⑪.
5. Push the "SELECT" button ⑩ to resume clock mode.

#### Fuel meter

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 left segment flickers when the fuel level drops below 1.75 liters (0.5/0.4 US/imp. gal).

Fuel tank	Approximately 1.75 L	Approximately 6.0 L	Full
Fuel gauge	Flicker	Flicker	Flicker
Mark	Flicker	Flicker	Flicker

#### NEUTRAL INDICATOR LIGHT ⑦

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.

#### OIL PRESSURE INDICATOR LIGHT

- ⑧ This indicator comes on when the engine oil pressure is below the normal operating range. This should come on when the ignition switch is "ON" and the engine is not running. As soon as the engine starts, this should go out.

#### CAUTION

Riding the motorcycle with the oil pressure indicator light lit can damage the engine and transmission.

Whenever the oil pressure indicator lights up, indicating low oil pressure, stop the engine immediately. Check the oil level and determine if the proper amount of oil is in the engine. If the light still does not go out, have your authorized SUZUKI dealer or qualified mechanic troubleshoot your motorcycle.

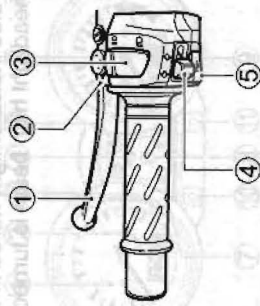
#### HIGH BEAM INDICATOR LIGHT ⑨

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



**CLUTCH LEVER ①**  
The clutch lever is used for disengaging the clutch transmission gear. Squeezing the clutch lever to the left disengages the clutch.

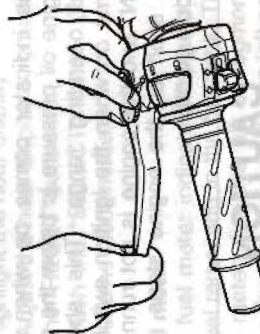
## LEFT HANDLEBAR



### CLUTCH LEVER ①

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

## Clutch Lever Adjustment



The distance between the grip and the clutch lever is adjustable among four 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.

## HEADLIGHT FLASHER SWITCH ②

Press the switch to light the headlight.

### DIMMER SWITCH ③

"O" position

The headlight low beam and taillight turn on.

"I" position

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

## TURNSIGNAL LIGHT SWITCH ④

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 on.

## ⚠ 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" ⑤

Press the switch to operate the horn.

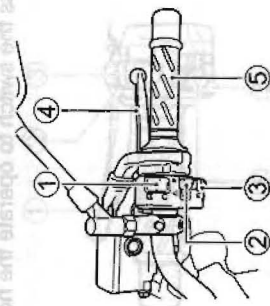


Adjusting the horn switch position while riding can be hazardous. Removing a hand from the handlebars can reduce your ability to control the motorcycle.

Always keep both hands on the handlebars while riding.



## RIGHT HANDLEBAR



### ENGINE STOP SWITCH ①

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

### "Q" position

The ignition circuit is on and the engine can run.

### HAZARD WARNING SWITCH ②

All four turn signal lights and both turn signal indicators will flash simultaneously. Use the hazard warning lights to warn other traffic during emergency parking or when your motorcycle could otherwise become a traffic hazard.

## ELECTRIC STARTER BUTTON "Q"

This button is used for operating the starter motor. With the ignition switch in the "ON" position, the engine stop switch in "Q", 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

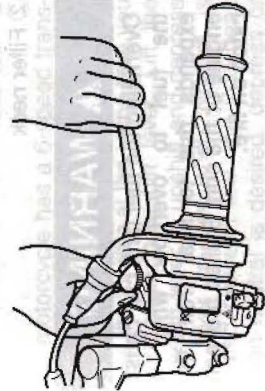
To prevent electrical system damage, do not operate the starter motor more than five seconds at a time.

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

## FRONT BRAKE LEVER ④

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 among five 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

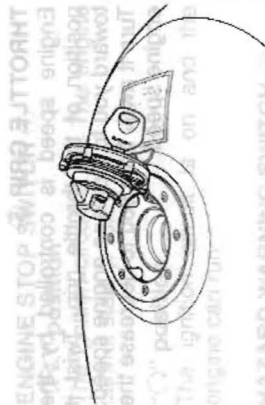
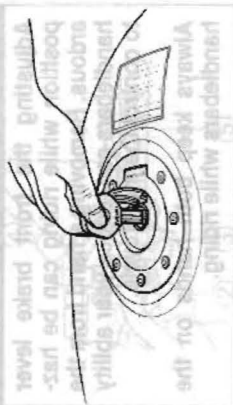
Adjusting the front brake lever position while riding can be hazardous. Removing a hand from the handlebars can reduce your ability to control the motorcycle.

Always keep both hands on the handlebars while riding.

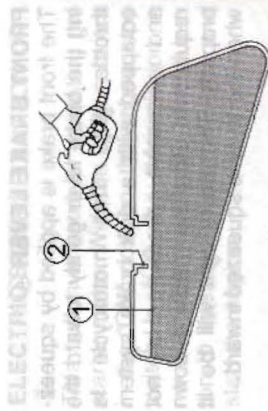
## THROTTLE GRIP ⑤

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 the 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.

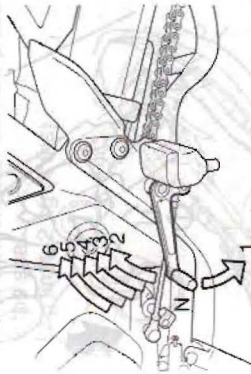
Never fill the fuel above the bottom of the filler neck.

## ▲ 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

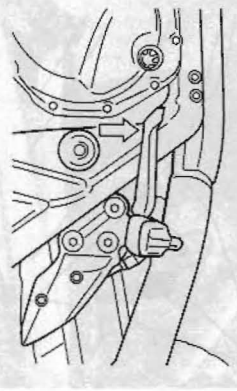


This motorcycle has a 6-speed transmission which operates as shown. To shift properly, pull the clutch lever and close the throttle at the same time you operate the gearshift lever. Lift the gearshift lever to upshift and depress the lever to downshift. Neutral is located between low and 2nd gear. When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

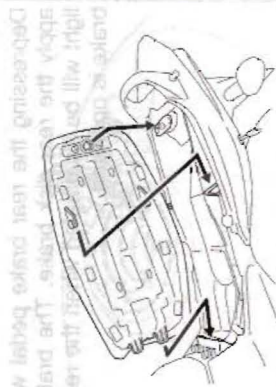
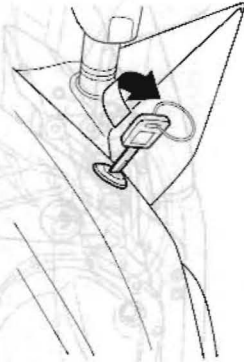
## REAR BRAKE PEDAL



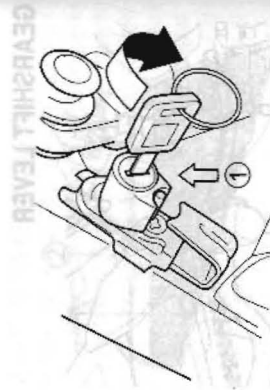
Depressing the rear brake pedal will apply the rear disk brake. The brake light will be illuminated when the rear brake is operated.



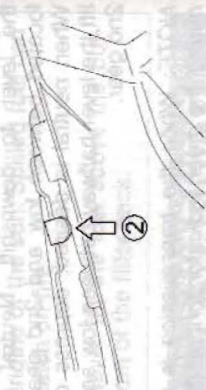
## SEAT LOCK AND HELMET HOLDERS



To unlock the seat lock, insert the ignition key into the lock and turn it clockwise. To lock the seat, slide the seat hook into the seat hook retainer and push down firmly.



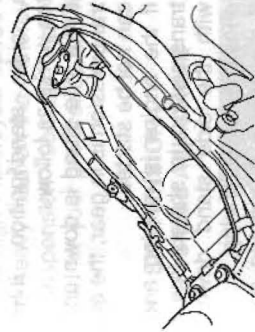
To use the helmet holder ①, insert the ignition key into the lock and turn it clockwise to open the latch. Hook your helmet fastener ring to the latch and return the latch to the closed position to lock the holder.



There is a helmet holder ② under the seat. To use it, remove the seat, hook your helmet fastener ring to the holder and refit the seat.

- Wipe up spilled fuel vapor.
- Avoid breathing fuel vapor.
- Keep children and pets away.

A small and light article such as rain gear or a windbreaker can be placed under the seat.  
Loading limit: 2 kg (4 lbs)



A motorcycle lock or a thin article such as map or owner's manual can be held.

## ⚠ 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.

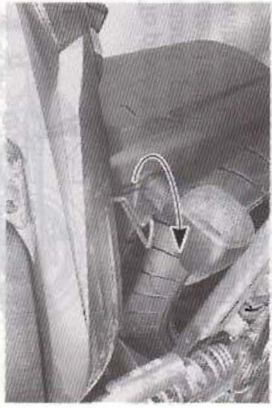
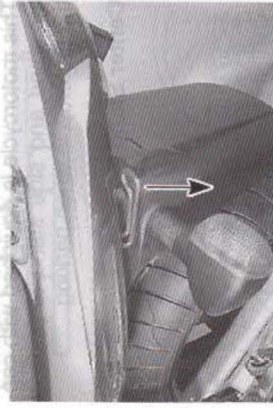
**NOTE:** Put only articles, which will not be damaged by being wet under the seat, when it is raining, or being washed.

## ⚠ 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.

## LUGGAGE STRAP HOLDERS



This motorcycle is equipped with retractable luggage strap holders. To use the strap holder, pull the strap holder downward and turn it out.



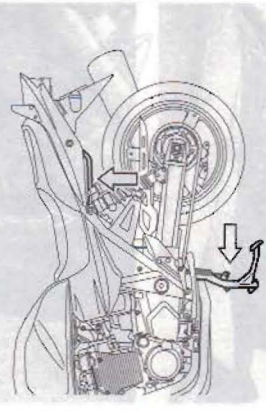
When the motorcycle is parked, the luggage strap holder will automatically retract into the seat. To use the strap holder, pull the strap holder downward and turn it out.



## STANDS

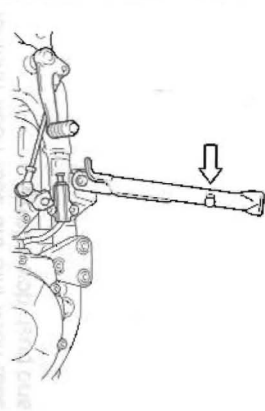
This motorcycle is equipped with center stand and side stand to support the motorcycle when parking.

### Center Stand



To place the motorcycle on the center stand, place your right foot on the stand extension, hold the handlebars with your left hand and hold the passenger rail hand with your right hand. Step on the stand extension and rock the motorcycle to the rear and upward.

### Side Stand



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

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 incompletely 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.

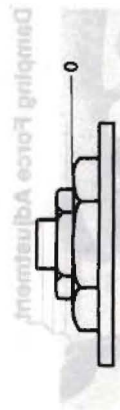
## SUSPENSION ADJUSTMENT

The standard settings of both 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 for your preference and fine-tuning.

### FRONT SUSPENSION Spring Pre-load Adjustment



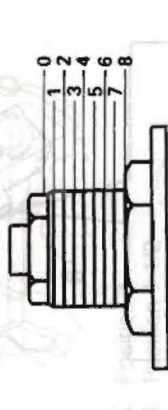
To change the spring pre-load, turn the adjuster ① clockwise or counterclockwise. Turning the adjuster clockwise will increase the spring pre-load. Turning the adjuster counterclockwise will decrease the spring pre-load. There are eight grooved lines on the side of the adjuster ① for reference. Position 8 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 5.



A



B

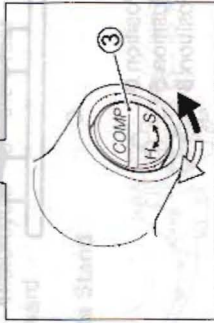
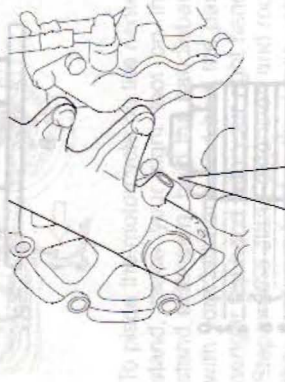


C

- A. Position 0
- B. Position 5
- C. Position 8



## Damping Force Adjustment



The rebound and compression damping force can be individually adjusted by turning the respective adjusters. The rebound damping force adjuster ② is located at the top of the front fork. The compression damping force adjuster ③ is located at the bottom of the front fork.

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

To set the rebound and compression damping force, turn the adjuster clockwise until it stops and then turn it counterclockwise. As you turn the adjuster, you will notice clicks. Count the number of clicks from fully turned-in position. The standard rebound damping force setting is 8 clicks. The standard compression damping force setting is 7 clicks.

Turn the adjuster clockwise from the standard position to stiffen the damping force. Turn the adjuster counterclockwise to soften the damping force. The damping force should be adjusted gradually, 1/4 turn at a time, to fine-tune the suspension.

## ⚠ WARNING

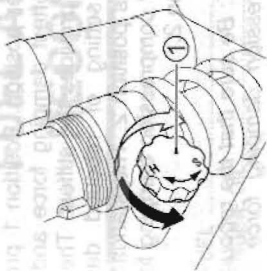
Unequal suspension adjustment can cause poor handling and loss of stability.

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

**NOTE:** Make sure to check the first click position by last click sound when turning in.

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.

## REAR SUSPENSION Spring Pre-load Adjustment



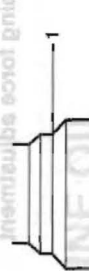
To change the spring pre-load, turn the adjuster ① clockwise or counterclockwise. Turning the adjuster clockwise will increase the spring pre-load. Turning the adjuster counterclockwise will decrease the spring pre-load. There are 5 grooved lines on the side of the suspension for reference. Position 5 provides the minimum spring pre-load and position 1 provides the maximum pre-load. This motorcycle is delivered from the factory with its adjuster set on position 1 1/2.

## ⚠ WARNING

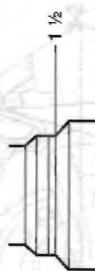
Unequal suspension adjustment can cause poor handling and loss of stability.

Adjust the right and left shock absorbers to the same settings.

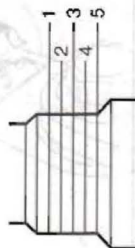
- A. Position 1
- B. Position 1 1/2
- C. Position 5



A



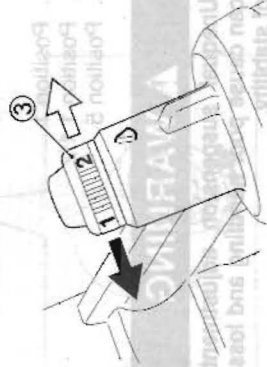
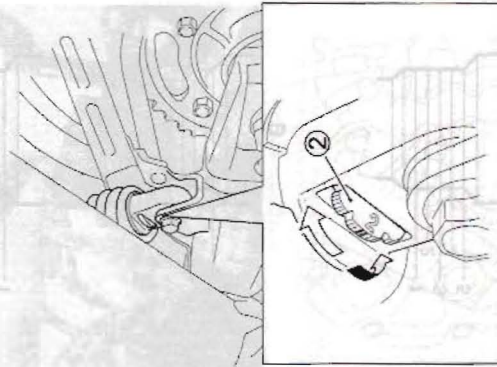
B



C



### Damping force adjustment



The rebound and compression damping force can be individually adjusted by turning the respective adjusters. The rebound damping force adjuster ② is located at the bottom of the rear suspension. The compression damping force adjuster ③ is located at the top of the rear suspension.

To change the damping force, turn the adjuster. As you turn the adjuster, you will notice a click as you reach each number position. Position 1 provides the softest damping force and position 4 provides the stiffest. The standard setting of rebound damping force is position 2. The standard setting of compression damping force is position 2.

**NOTE:** Be sure that the rebound and compression damping force adjusters are firmly located in a detent, not between positions.

## ⚠ 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.**

## FUEL AND ENGINE OIL RECOMMENDATION

FUEL .....	3-2
ENGINE OIL .....	3-3

## FUEL AND ENGINE OIL RECOMMENDATION

### 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.

If pinking or knocking is experienced, substitute higher octane grade gasoline or another brand, because there are differences between brands.

### (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 vehicle if the ethanol content is not greater than 10%.

### Gasoline/Methanol Blends

Fuel 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 clean the air, Suzuki recommends that you use the oxygenated fuels.
- Be sure that any oxygenated fuel you use has octane ratings of at least 87 pump octane ((R+M)/2 method).
- If you are not satisfied with the driveability of your motorcycle when you are using an oxygenated fuel, or if engine pinging is experienced, substitute another brand as there are differences between brands.

## 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

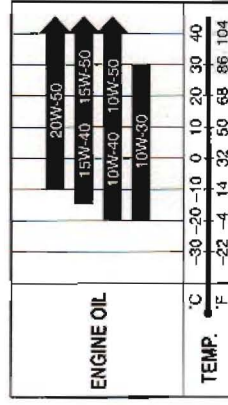
Oil quality is a major contributor to your engine's performance and life. Always select good quality engine oil. Use oil with an API (American Petroleum Institute) classification of SF/SG or SH/SJ, or with a JASO classification of MA.

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

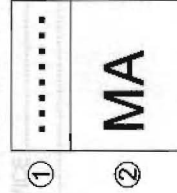
Suzuki recommends the use of SAE 10W-40 engine oil. If SAE 10W-40 engine oil is not available, select an alternative according to the following chart.



### 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 transmission.

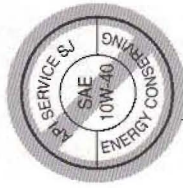
There are two classes, MA and MB. The oil container has following classification for confirming the standard.



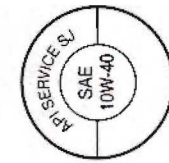
- Code number of oil sales company
- Oil classification

### Energy Conserving

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



Not recommended



Recommended





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

The opening explains 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 6700 rpm
Over	1600 km (1000 miles)	Below 9000 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 glaze and not seat in. Allow the engine to accelerate freely through 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.



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

## RIDING TIPS

## CRITICAL SERVICE



WHAT TO CHECK	CHECK FOR:
Steering	<ul style="list-style-type: none"> <li>• Smoothness</li> <li>• No restriction of movement</li> <li>• No play or looseness</li> </ul>
Throttle	<ul style="list-style-type: none"> <li>• Correct play in the throttle cable</li> <li>• Smooth operation and positive return of the throttle grip to the closed position</li> </ul>
Clutch	<ul style="list-style-type: none"> <li>• Fluid level in the reservoir to be above "LOWER" line</li> <li>• Correct lever play</li> <li>• No fluid leakage</li> <li>• Smooth and progressive action</li> </ul>
Brakes	<ul style="list-style-type: none"> <li>• Fluid level in the reservoir to be above "LOWER" line</li> <li>• Correct pedal and lever play</li> <li>• No "sponginess"</li> <li>• No fluid leakage</li> </ul>
Suspensions	Smooth movement
Fuel	Enough fuel for the planned distance of operation
Drive chain	<ul style="list-style-type: none"> <li>• Correct tension or slack</li> <li>• Adequate lubrication</li> </ul>
Tires	<ul style="list-style-type: none"> <li>• Correct pressure</li> <li>• Adequate tread depth</li> <li>• No cracks or cuts</li> </ul>
Engine oil	Correct level
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

Before attempting to start the engine, make sure:

- The transmission is in neutral.
- 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.

### When the Engine is Cold:

1. Close the throttle grip and push the electric starter switch.
2. After the engine starts, let the engine run until the engine sufficiently warms up.

### When the Engine is Warm:

1. Open the throttle grip  $1/8 - 1/4$ .
2. Push the electric starter switch.

## ⚠ 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 the 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.

### ⚠ 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 the corner.

## CAUTION

Revolving 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. 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. Return 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 for security.
8. Remove the ignition key.





## 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 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 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.

## 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.

**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 qualified mechanic.



MAINTENANCE CHART

Interval	1000 miles (1600 km)	2000 miles (3200 km)	3000 miles (4800 km)	4000 miles (6400 km)	5000 miles (8000 km)	6000 miles (9600 km)	7000 miles (11200 km)	8000 miles (12800 km)	9000 miles (14400 km)	10000 miles (16000 km)
Check engine oil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Check engine oil level	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Check engine oil filter										
Check engine oil pressure										
Check engine oil temperature										
Check engine oil level (after 1000 miles)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Check engine oil level (after 2000 miles)		✓	✓	✓	✓	✓	✓	✓	✓	✓
Check engine oil level (after 3000 miles)			✓	✓	✓	✓	✓	✓	✓	✓
Check engine oil level (after 4000 miles)				✓	✓	✓	✓	✓	✓	✓
Check engine oil level (after 5000 miles)					✓	✓	✓	✓	✓	✓
Check engine oil level (after 6000 miles)						✓	✓	✓	✓	✓
Check engine oil level (after 7000 miles)							✓	✓	✓	✓
Check engine oil level (after 8000 miles)								✓	✓	✓
Check engine oil level (after 9000 miles)									✓	✓
Check engine oil level (after 10000 miles)										✓

NOTE: 1 = Inspect and clean, adjust, replace as necessary. 2 = Tighten.

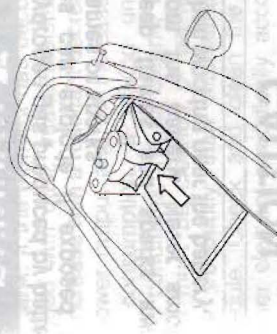
# **MAINTENANCE CHART**

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

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

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

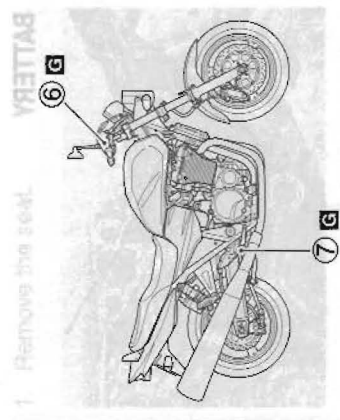
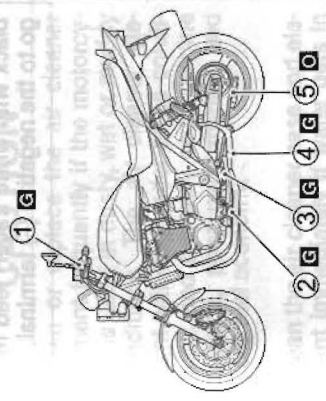
## **TOOLS**



To assist you in the performance of periodic maintenance, a tool kit is supplied and located under the seat.

## **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.



1 ... Motor oil  
2 ... Grease

- 1 ... Clutch lever holder
- 2 ... Side stand pivot and spring hook
- 3 ... Gearshift lever pivot and footrest pivot
- 4 ... Center stand pivot and spring hook
- 5 ... Drive chain
- 6 ... Brake lever holder
- 7 ... Brake pedal pivot and footrest pivot

4. Remove the four screws (2) and the air cleaner element (3).



## BATTERY

### 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.

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

Never exceed the maximum charging rate.

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.

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

The battery is located under the seat. Remove the document tray by pulling its rear end forward. This battery is sealed type and requires no maintenance of fluid level and gravity. But have your dealer check the charging condition of the battery periodically.

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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.

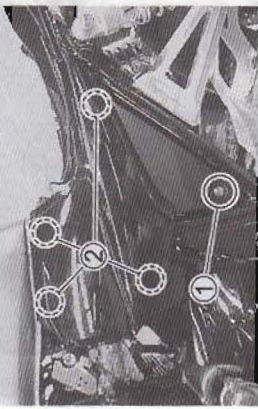
Never run the engine without the air cleaner element properly installed.

## CAUTION

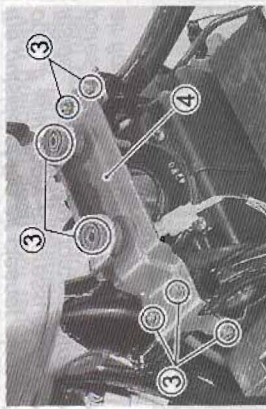
Clean or replace the air cleaner element frequently if the motorcycle is used in dusty, wet or muddy conditions. The air cleaner element will clog under these conditions, and this may cause engine damage, poor performance, and poor fuel economy.

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

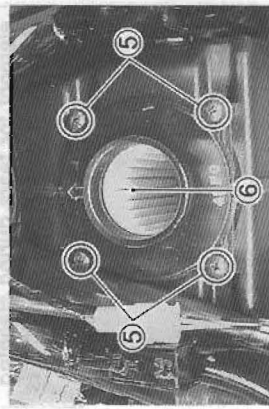
1. Remove the seat.



2. Remove the screw (1) and unhook the hooks (2). Remove the left frame cover.

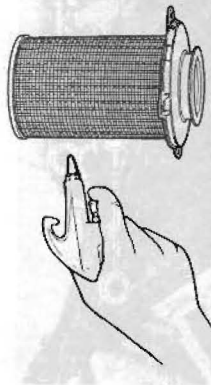


3. Remove the bolts (3) and the bracket (4).



4. Remove the four screws (5) and the air cleaner element (6).





5. 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.

## 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.

6. 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

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 Tube

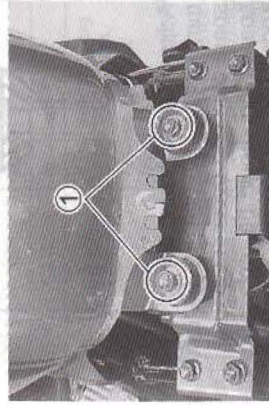


Remove the plug and drain water and oil at the periodic maintenance interval.

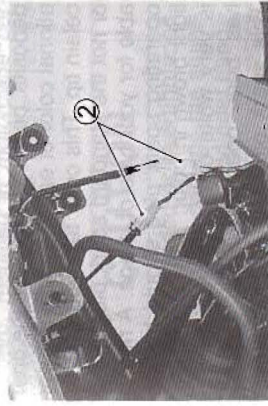
## SPARK PLUGS

To remove the spark plugs, follow the procedure below:

1. Remove the seat.



2. Remove the two bolts (1).



3. Lift the rear end of the fuel tank and disconnect the couplers (2).

Use a screwdriver to pry the rear end of the fuel tank up and away from the engine. Do not use excessive force. The fuel tank is designed to be lifted and moved. Do not use a screwdriver to pry the fuel tank up and away from the engine. The fuel tank is designed to be lifted and moved. Do not use a screwdriver to pry the fuel tank up and away from the engine.



4. Disconnect the tube (3) and remove the fuel hose (4).

## CAUTION

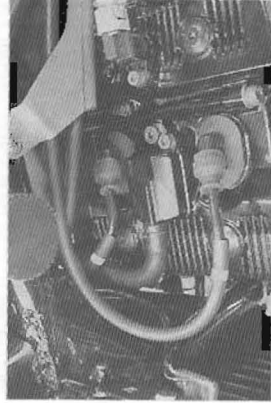
Improper fuel hose handling may cause damage to the fuel hose. The fuel hose may bend and fuel leakage may occur.

When removing the fuel hose, disconnect the engine side first and disconnect the fuel tank side after lifting the fuel tank. Remove the fuel hose to prevent bending damage.



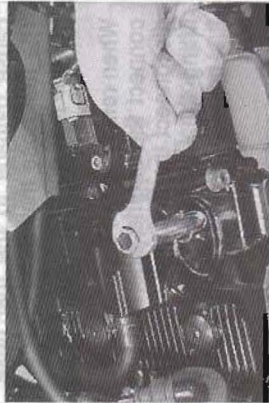
5. Remove the fuel tank pulling it backward.



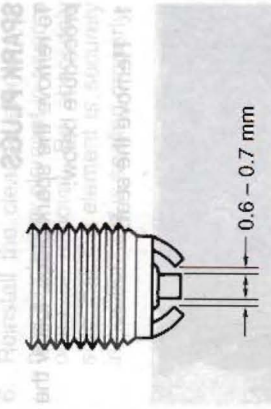


6. Extract the spark plug cap.

**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.



7. Remove the spark plug with the spark plug wrench provided in the tool kit.



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.

## 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 qualified mechanic if you are not sure which spark plug is correct for type of usage.

## Plug Replacement Guide

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 ignition system, resulting in motorcycle performance problems. Use recommended spark plugs.

## CAUTION

A cross-threaded or overtightened spark plug will damage the aluminum threads of the cylinder head.

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





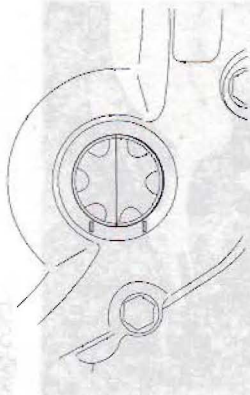
## ENGINE OIL

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 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.

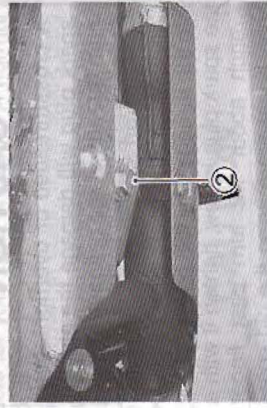
## ENGINE OIL AND FILTER CHANGE

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 center stand.



2. Remove the oil filler cap (1).



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

## 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.

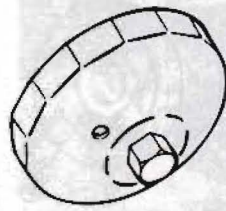
## WARNING

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

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

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

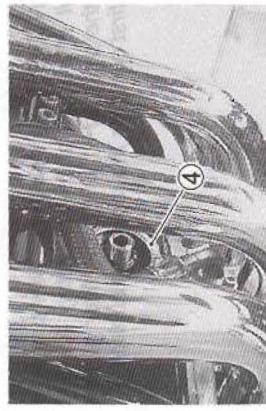
5. Reinstall the drain plug and gasket. Tighten the plug securely with a wrench.



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

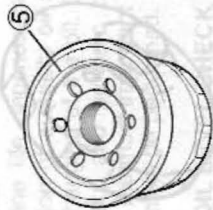


6. Turn the oil filter (3) counter-clockwise and remove it with a Suzuki "cap type" oil filter wrench or a "strap type" filter wrench of proper size.



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





8. Smear a little engine oil around the rubber gasket (5) of the new oil filter.

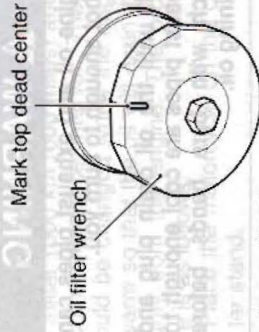
## CAUTION

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

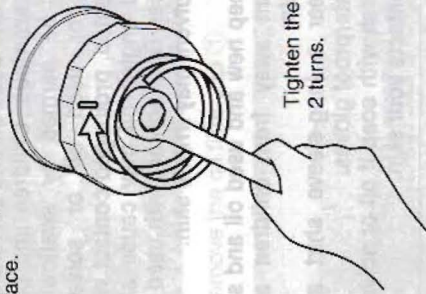
Use a genuine SUZUKI oil filter or an equivalent designed for your motorcycle.

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

**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.



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



10. 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.

11. Pour 4800 ml (5.1/4.2 US/Imp. qt) of new oil through the filler hole and install the filler cap. Be sure to always use the specified engine oil described in the FUEL AND ENGINE OIL section.

**NOTE:** About 4200 ml (4.4/3.7 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 AND ENGINE OIL RECOMMENDATION section.

12. 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.
13. Stop the engine and wait a few 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.

1. Wash thoroughly after handling. Solution can be poisonous to animals.

Keep out of the reach of children and animals.

## IDLE SPEED



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

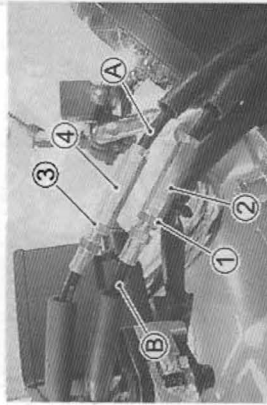
To adjust the idle speed:

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 (1) located on the carburetor in or out so that the engine may run at 1000 - 1200 r/min.

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

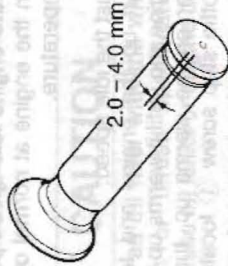


## THROTTLE CABLE PLAY



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).



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

## ⚠ WARNING

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

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

## 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.

## CAUTION

Spilled brake fluid can damage painted surfaces and plastic parts.

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

## ⚠ 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 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.



## DRIVE CHAIN

This motorcycle has a continuous 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 qualified mechanic if the drive chain needs replacing.

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:

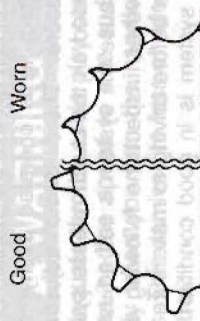
- Loose pins
- Damaged rollers
- Dry or rusted links
- Kinked or binding links
- Excessive wear
- Improper chain adjustment

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 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 qualified mechanic.



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

**NOTE:** The chain is an endless type chain (no master link) for maximum strength. Chain replacement requires the swing arm removal. Trust this work only to a qualified mechanic. Never install a master link type chain.

## 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.

### 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 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 adjustments than periodic maintenance schedule depending upon your riding conditions.

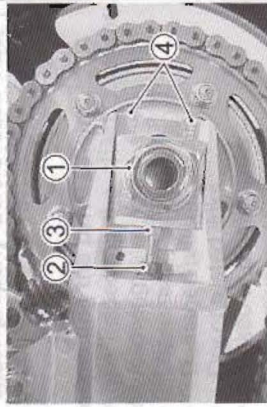
### ⚠ WARNING

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:

1. Place the motorcycle on the side stand.



2. Loosen the axle nut ①.
3. Loosen the lock nut ② (right and left).



20 - 30 mm

4. Adjust the drive chain slack by turning the right and left chain adjuster bolts ③. At the same time that the chain is being adjusted, the rear sprocket must be kept in perfect alignment with the front sprocket. To assist you in performing this procedure, there are reference marks ④ on the 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.
5. Tighten the lock nut ② (right and left).
6. Tighten the axle nut ① securely.
7. 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)

## 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.

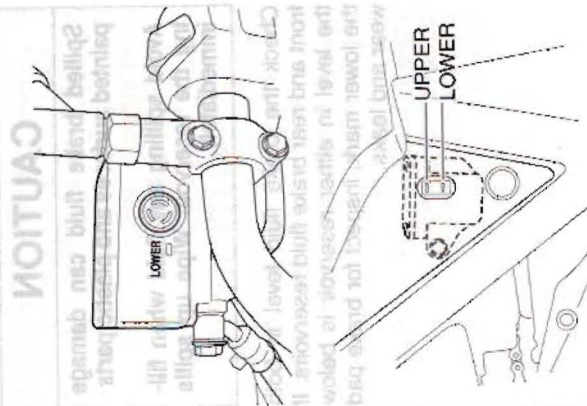
## BRAKE FLUID

### ⚠ 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.



NOTE: Rear brake fluid reservoir is located under the seat.



## ⚠ 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 qualified mechanic for inspection.

## CAUTION

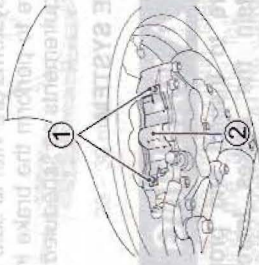
Spilled brake fluid can damage painted surfaces and plastic parts.

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

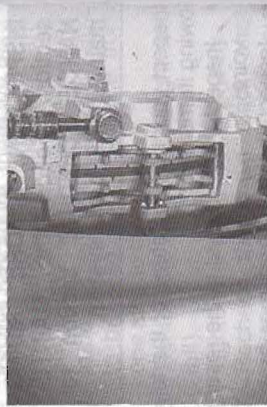
Check the brake fluid level in both front and rear brake fluid reservoirs. If the level in either reservoir is below the lower mark, inspect for brake pad wear and leaks.

### BRAKE PAD

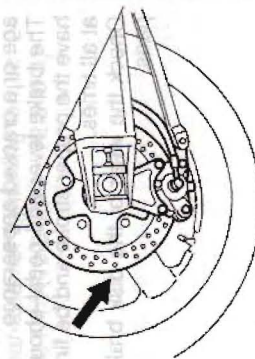
#### FRONT



**NOTE:** Remove the two screws ① and caliper lid ② to inspect the front and caliper pads.



#### REAR

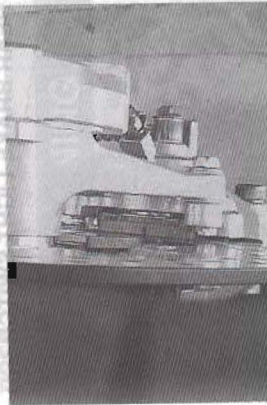


## ⚠ WARNING

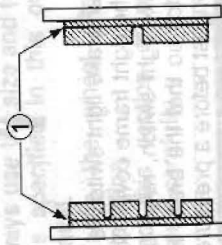
Failure to extend brake pads after repair or replacement can cause poor braking performance and may result in an accident.

Before riding, "pump" the brake repeatedly until 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.



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



#### FRONT

① Limit line

#### REAR

## ⚠ WARNING

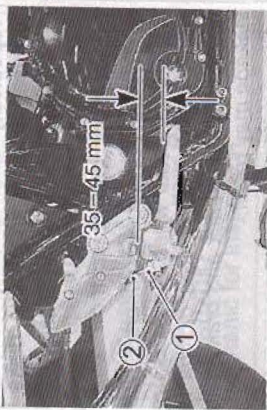
Riding with worn brake pads will reduce braking performance and will increase your chance of having an accident.

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



### REAR BRAKE PEDAL ADJUSTMENT

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



1. Loosen lock nut ①, and rotate push rod ② to locate the pedal 35 - 45 mm (1.4 - 1.8 in) below the top face of the footrest.
2. Retighten lock nut ① to secure 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



The rear brake light switch is located under the right frame cover. 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.

**WARNING**

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).

### 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 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 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 have a smaller amount of tire in contact with the road, which can contribute to skidding and loss of control.

### Cold Tire Inflation Pressure

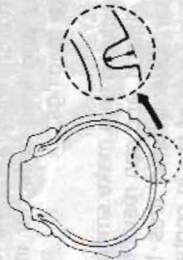
LOAD TIRE	SOLO RIDING	TWO-UP RIDING
FRONT	250 kPa 2.50 kgf/cm <sup>2</sup> 36 psi	250 kPa 2.50 kgf/cm <sup>2</sup> 36 psi
REAR	250 kPa 2.50 kgf/cm <sup>2</sup> 36 psi	290 kPa 2.90 kgf/cm <sup>2</sup> 42 psi

**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 tire conditions 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 "Triangle" 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	120/70 ZR17 M/C (58W)	190/50 ZR17 M/C (73W)
TYPE	BRIDGESTONE BT020F F	BRIDGESTONE BT020R

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.

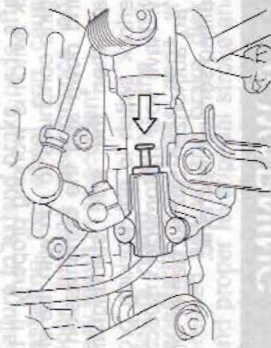
- Ask your SUZUKI dealer or qualified mechanic to perform tire repair, replacement, and balancing because proper tools and experience are required.
- Install tires according to the rotation direction shown by arrows on the sidewall of each tire.

## ⚠ 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 puncture 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 in 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.

## 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.

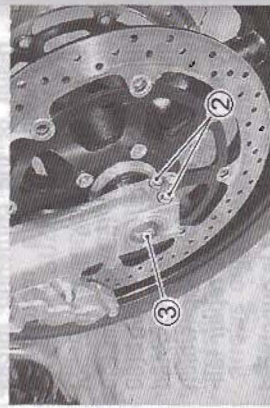
## FRONT WHEEL REMOVAL

1. Place the motorcycle on the center stand.



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

**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.
4. Loosen the axle shaft ③ temporarily.
5. Carefully position a jack under the engine and raise until the front wheel is slightly off the ground.

## CAUTION

Improper jacking may cause damage to the oil filter.

Do not apply the jack head to the oil filter when jacking up the motorcycle.



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



7. Slide the front wheel forward.
8. After installing the wheel, apply the 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 brake pads are pressed against the brake disks and proper lever/pedal stroke and firm feel are restored. Also check that the wheel rotates freely.

## ⚠ 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 qualified mechanic do this.

**NOTE:** Do not twist or bend the brake hoses excessively when installing the brake calipers.

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

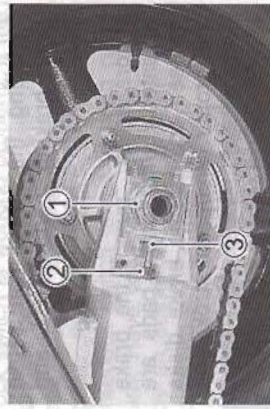
Front axle holder bolt tightening torque:  
23 N·m (2.3 kgf-m, 16.5 lb-ft)

Front brake caliper mounting bolt tightening torque:  
26 N·m (2.6 kgf-m, 19.0 lb-ft)



## REAR WHEEL REMOVAL

1. Place the motorcycle on the center stand.



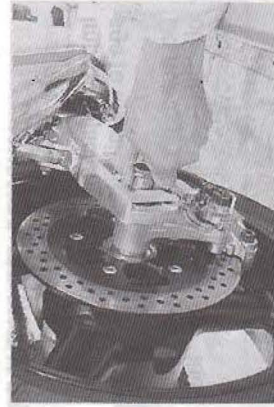
2. Remove the axle nut ①.

## ⚠ WARNING

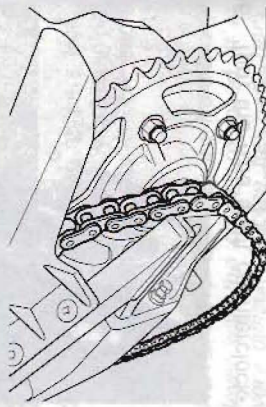
A hot muffler can burn you. The muffler will be hot enough to burn you for some time after stopping the engine.

Wait until the muffler cools to avoid burns.

3. Place an accessory service stand or equivalent under the swing arm to lift the rear wheel slightly off the ground.
4. Loosen the lock nut ② (right and left). Turn the chain adjusting nuts ③ clockwise (right and left).



5. Draw out the axle shaft.



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

8. To replace the wheel reverse the complete sequence listed.
9. Adjust the drive chain slack.
10. After installing the wheel, apply the brake several times and then check that the wheel rotates freely.

## ⚠ 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 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 lever/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)
Turn signal light	12V 21W
Brake light/Tailight	12V 21/5W x 2



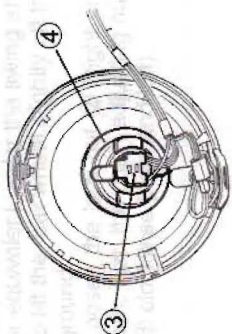


### HEADLIGHT

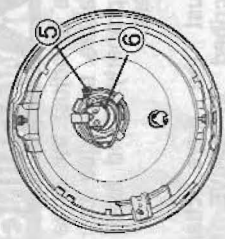
To replace the headlight bulb, perform the following step:



1. Remove the two screws ① and ② from the headlight outer ring.



2. Disconnect the socket ③ and remove the rubber cap ④.



3. Unhook the bulb holder spring ⑤, and pull out the bulb ⑥.

### CAUTION

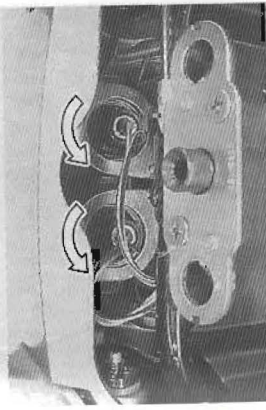
Oil from your skin may damage the headlight bulb or shorten its life.

Grasp the new bulb with a clean cloth.

### BRAKE LIGHT/TAILLIGHT

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

1. Remove the seat.



2. Turn the socket counterclockwise and remove it.



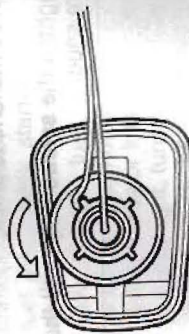
3. Push in the bulb, twist it to the left and pull it off.

### TURN SIGNAL LIGHT

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



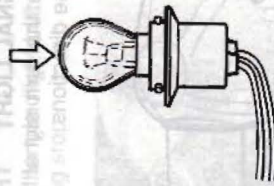
1. Remove screw and take off the lens.



2. Turn the socket counterclockwise and remove it.



## HEADLIGHT



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

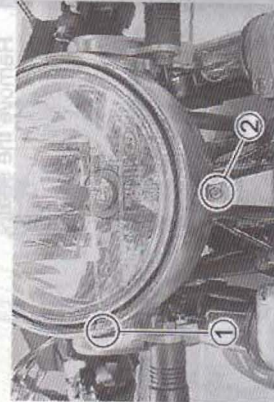
## CAUTION

Overtightening the screws may cause the lens to crack.

Tighten the screws only until they are snug.

## HEADLIGHT BEAM ADJUSTMENT

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



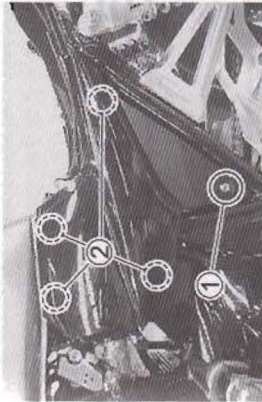
### To adjust the beam horizontally:

Turn the cross head screw ① located on the left side of the headlight unit clockwise or counterclockwise.

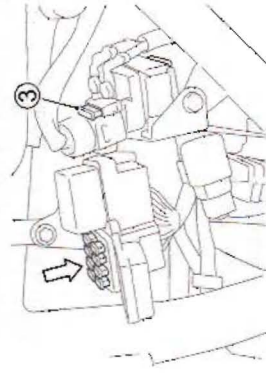
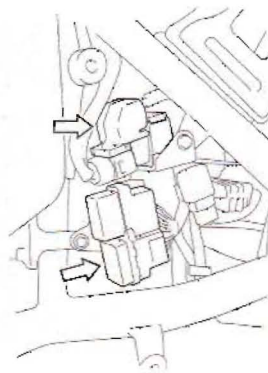
### To adjust the beam vertically:

Loosen the headlight housing fitting bolt ② and move the headlight housing up or down as required.

## FUSES



The main fuse and fuses are located behind the left frame cover. Remove the frame cover by removing the screw ① and unhooking the hooks ②.



One 30A spare fuse ③ is located inside the fuse box.

One 10A and one 15A spare fuses are provided inside the fuse box.

They 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.

## FUSE LIST

- 30A MAIN fuse protects all electrical circuits.
- 10A HEAD-HI fuse protects the headlight high beam and high beam indicator light.
- 10A HEAD-LO fuse protects the headlight low beam.
- 10A FUEL fuse protects the ECU, speedometer, fuel pump and injectors.
- 10A IGNITION fuse protects the immobilizer, ECU, CMP sensor, fuel pump relay, starter relay and ignition coils.
- 15A SIGNAL fuse protects the \*position light, horns, tachometer, neutral indicator light, oil pressure indicator light, turn signal indicator lights, meter panel illumination lights, turn signal lights, license light, taillights and brake lights.
- 10A FAN fuse protects the cooling fan motor.
- Except for Australia

## 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 qualified mechanic immediately.





## 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 qualified mechanic about the problem.

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

### FUEL SUPPLY CHECK

If the fuel injection indicator displays "F1", showing signs of trouble in the fuel injection system, take your machine to an authorized Suzuki dealer. Refer to the "INSTRUMENT PANEL" section for fuel injection system indicator explanation. If the indicator does not display "F1", make sure there is enough fuel in the fuel tank. If the indicator does not display "F1" and there is enough fuel, ignition system should be checked.

### IGNITION SYSTEM CHECK

1. Remove the spark plug and reattach it to the spark plug lead.



2. While holding the spark plug firmly against 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. If there is 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

- Check the fuel supply in the fuel tank.
- Check the ignition system for intermittent spark.
- Check the idle speed.



MOTORCYCLE CLEANING

STORAGE PROCEDURE

PROCEDURE DURING STORAGE

PROCEDURE FOR RETURNING TO SERVICE

8-2

8-3

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8-5

**CAUTION**

## MOTORCYCLE CLEANING AND STORAGE PROCEDURE

MOTORCYCLE CLEANING .....	8-2
STORAGE PROCEDURE .....	8-3
PROCEDURE DURING STORAGE .....	8-4
PROCEDURE FOR RETURNING TO SERVICE .....	8-4

PROCEDURE FOR RETURNING TO

## CAUTION



## MOTORCYCLE CLEANING AND STORAGE

### 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

**Oil cooler fins can be damaged by spraying high pressure water on them.**

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

**NOTE:** Avoid spraying or allowing water to flow over the following places:

- Ignition switch
- Spark plugs
- Fuel tank cap
- Brake master cylinders
- Clutch master cylinder

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.

#### 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 center stand (others) 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 carburetors.

### 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.





# SPECIFICATIONS

## DIMENSIONS AND DRY MASS

Overall length	2160 mm (85.0 in)
Overall width	810 mm (31.9 in)
Overall height	1140 mm (44.9 in)
Wheelbase	1520 mm (59.8 in)
Ground clearance	130 mm (5.1 in)
Seat height	790 mm (31.1 in)
Dry mass	226 kg (498 lbs)
	225 kg (496 lbs) ... For Australia

## ENGINE

Type	Four-stroke, air-cooled with SACS, DOHC
Number of cylinders	4
Bore	81.0 mm (3.189 in)
Stroke	68.0 mm (2.677 in)
Piston displacement	1402 cm <sup>3</sup> (85.5 cu. in)
Compression ratio	9.5:1
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	1.509 (83/55)
Gear ratios, Low	2.916 (35/12)
2nd	1.937 (31/16)
3rd	1.526 (29/19)
4th	1.285 (27/21)
5th	1.136 (25/22)
Top	1.000 (24/24)
Secondary reduction ratio	2.277 (41/18)
Drive chain	RK GB50GSVZ3, 116 links

## CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension	Swingarm, coil spring, oil damped
Caster	26°
Trail	105 mm (4.1 in)
Steering angle	37° (right and left)
Turning radius	2.8 m (9.2 ft)
Front brake	Disk brake, twin
Rear brake	Disk brake
Front tire size	120/70 ZR17 M/C (58W), tubeless
Rear tire size	190/50 ZR17 M/C (73W), tubeless

# PROCEDURE DURING STORAGE

Once a month, recharge the battery with a specified charging rate for 10 hours.

# PREPARE FOR RETURNING TO

with a mild detergent and remove corrosion from the terminals. Disconnect the battery.

# INDEX

## ELECTRICAL

Ignition type	Electronic Ignition (Transistorized)
Spark plug	NGK CR6EK or DENSO U24ETR
Battery	12V 43.2 KC (12 Ah)/10 HR
Generator	Three-phase A.C. generator
Fuse	30/10/10/10/15/10A
Headlight	12V 60/55W (H4)
Position light	12V 5W ... Except for Australia
Turn signal light	12V 21W
Brake light/Tail light	12V 21/5W x 2
Speedometer light	LED
Tachometer light	LED
Turn signal indicator light	LED
Neutral indicator light	LED
High beam indicator light	LED
Oil pressure indicator light	LED
Fuel injection warning light	LED

## CAPACITIES

Fuel tank including Reserve	22.0 L (5.8/4.8 US/Imp. gal)
Engine oil, without filter change	4200 ml (4.4/3.7 US/Imp. qt)
Engine oil, with filter change	4800 ml (5.1/4.2 US/Imp. qt)

## DRIVE CHAIN

6-10

## ENGINE OIL

1-4

## ENGINE STARTING

1-4

## ENGINE OIL

1-4

## ENGINE OIL

1-4

## ENGINE OIL

1-4

## ENGINE OIL

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## ENGINE OIL

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## ENGINE OIL

1-4

## ENGINE OIL

1-4

## ENGINE OIL

1-4

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## DECLARATION OF CONFORMITY

ASAHI DENSO CO., LTD.



# ASAHI DENSO CO., LTD.

1126 Nakajo Hamakita-shi Shizuoka-ken, Japan

## DECLARATION of CONFORMITY

We, ASAHI DENSO CO., LTD. of the above address, hereby declare, at our sole responsibility, that the following product conforms to the Essential Requirements of the Radio and Telecommunications Terminal Equipment Directive 1999/5/EC in accordance with the tests conducted to the appropriate requirements of the relevant standards, as listed hereafter.

**Product:**

IMMOBILIZER FOR MOTOR CYCLE

**Model/ Type Number:**

SZ137\* (# for series models)

**Directive and Standards used:**

Radio: EN 300 330-1 V1.3.2 (2002-12)

EN 300 330-2 V1.1.1 (2001-06)

EMC: EN 301 489-3 V1.4.1 (2002-08)

EN 301 489-1 V1.5.1 (2004-11)

Safety: EN 60065:2002

**Year of affixing CE marking: 2006**

**Signature**

*Michiyuki Suzuki*

**Name**

: Michiyuki Suzuki

**Position**

: Section chief

**Date**

: January 12, 2006

# CE0891

Hereby, ASAHI DENSO CO., LTD. declares that this Immobilizer for Motor Cycle (SZ137) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Under the terms of the Directive 1999/5/EC, the following information is provided for Motor Cycle (SZ137) overholder's use and for the relevant provisions of the Directive 1999/5/EC.

Hereby, ASAHI DENSO CO., LTD. declares that this Immobilizer for Motor Cycle (SZ137) is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.

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**K6**

**SUZUKI MOTOR CORPORATION**  
300 TAKATSUKA, HAMAMATSU, JAPAN



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