

**SUZUKI**

186/1  
**OWNER'S MANUAL**

**GS750E**

*THANK YOU for choosing Suzuki. We at Suzuki have designed, tested and produced this motorcycle using the most modern technology available to provide you with many happy, enjoyable, safe miles of riding. Motorcycling is one of man's most exhilarating sports and to insure your riding enjoyment, you should become thoroughly familiar with the information presented in this Owner's Manual before riding the motorcycle.*

*The proper care and maintenance that your motorcycle requires is outlined in this manual. By following these instructions explicitly you will insure a long trouble free operating life for your motorcycle. This motorcycle also conforms to the U. S. Environmental Protection Agency emission regulations which apply to new motorcycles. The proper adjustment of engine components is necessary for this motorcycle to comply with the EPA regulations. Therefore, please follow the maintenance instructions closely to ensure emission compliance. Your Suzuki dealer has experienced technicians that are trained to provide your machine with the best possible service with the right tools and equipment.*

**SUZUKI MOTOR CO.,LTD.**

## IMPORTANT NOTICE

*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** . . . . .Special information to make maintenance easier or important instructions more clear.

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

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### ACCESSORY INSTALLATION AND PRECAUTION SAFETY TIPS

There are a great variety of accessories available to Suzuki owners.

Suzuki cannot have direct control over the quality or suitability of accessories you may wish to purchase. 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 for your Suzuki. We have developed some general guidelines which will aid you when deciding whether and how to equip your motorcycle.

- (1) Never exceed the GVWR (Gross Vehicle Weight Rating) shown on the Safety Label Attached to the steering stem frame tube. The GVWR is the combined weight of the machine, accessories, payload, rider and passenger. When selecting your accessories, keep in mind the weight of the rider and passenger as well as the weight of the accessories. The additional weight of the accessories may not only create an unsafe riding condition but may also affect the steering ease.

GVWR – GS750E : 465 kg (1026 lbs)

- (2) Anytime that additional weight or aerodynamic affecting accessories are installed, they should be mounted as low as possible, as close to the motorcycle and as near the center of gravity as is feasible. The mounting brackets and other attachment hardware should be carefully checked to insure that it provides for a rigid, non-moveable mount. Weak mounts can allow the shifting of the weight and create a dangerous unstable condition.
- (3) Inspect for proper ground clearance and bank angle. An improperly mounted load could critically reduce these two safety factors. Also determine that the "load" does not interfere with the operation of the suspension, steering or other control operations.

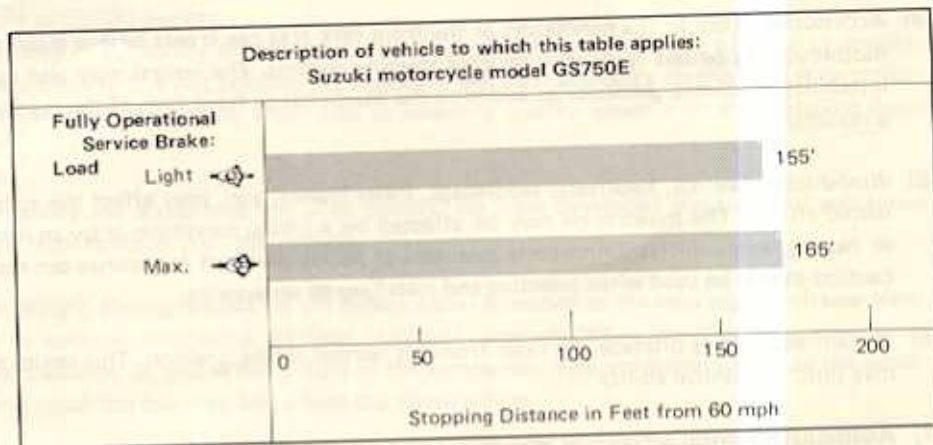
- (4) Accessories fitted to the handlebars or the front fork area can create serious stability problems. The extra weight will cause the motorcycle to be less responsive to your steering control. The weight may also cause oscillations in the front end and lead to instability problems. Accessories added to the handlebar or front fork of the machine should be as light as possible and kept to a minimum.
- (5) Windshields, fairings, backrests, saddlebags, travel trunks, etc., may affect the stability of the motorcycle due to their aerodynamic effects. The motorcycle may be affected by a lifting condition or by an instability in cross winds or when being passed or passing large vehicles. Improperly mounted or poorly designed accessories can result in an unsafe riding condition; therefore, caution should be used when selecting and installing all accessories.
- (6) Certain accessories displace the rider from his normal riding position. This limits the freedom of movement of the rider and may limit his control ability.
- (7) Additional electrical accessories may overload the existing electrical system. Severe overloads may damage the wiring harness or create a dangerous situation due to the loss of electrical power during the operation of the motorcycle.

When carrying a load on the motorcycle, mount it as low as possible and as close as possible to the machine. An improperly mounted load can create a high center of gravity which is very dangerous and makes the motorcycle difficult to handle. The size of the "load" can also affect the aerodynamics and handling of the motorcycle. Balance the load between the left and right side of the motorcycle and fasten it securely.

## VEHICLE STOPPING DISTANCE

This figure indicates braking performance that can be met or exceeded by the vehicle to which it applies, without locking the wheels, under different condition of loading.

**NOTICE:** The information presented represents results obtainable by skilled driver under controlled road and vehicle conditions, and the information may not be correct under other conditions.





## **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 insure the safety of the rider and passenger. These precautions are:

### **WEAR A HELMET**

Motorcycle safety equipment starts with a quality safety 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 the manual. Do not forget to perform an entire safety inspection to insure 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 your 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 of 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 conditions, slow down!

### **MOTORCYCLE SAFETY FOUNDATIONS "RIDING TIPS FOR THE MOTORCYCLIST" HANDBOOK**

This special manual, supplied in the pouch with your Owner's Manual, contains safety tips on a wide variety of topics. This manual can increase your riding enjoyment and safety and should be read thoroughly.

## 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 is stamped on the steering head tube and steering head I.D. plate. The engine serial number is stamped on the right side of the crankcase assembly.

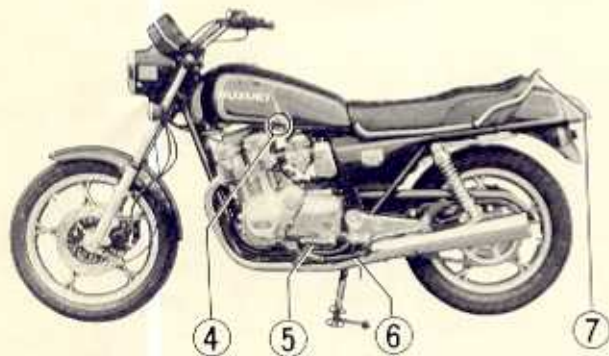
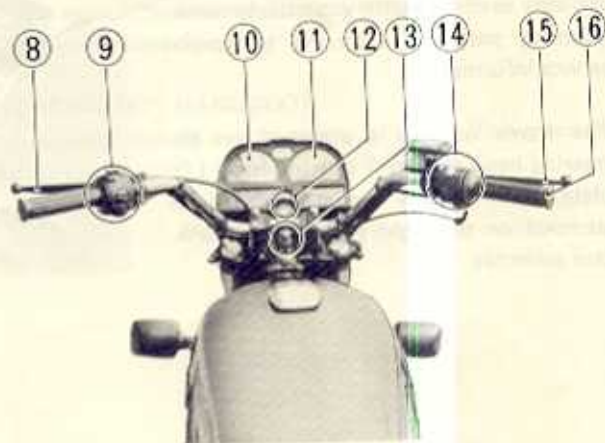
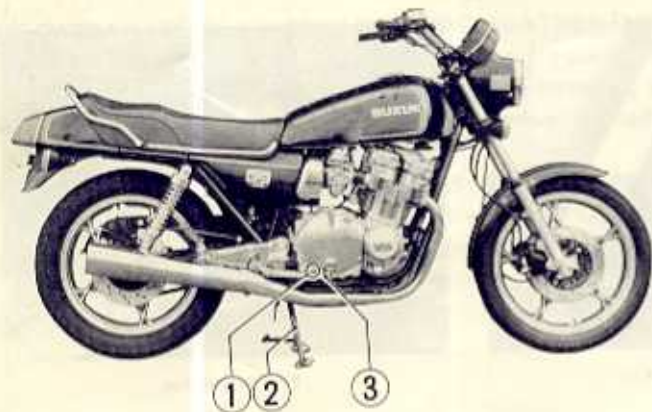


Frame number



Engine number

## LOCATION OF PARTS



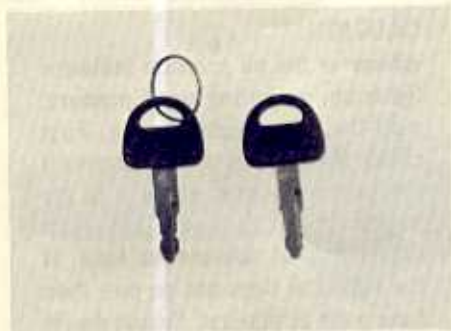
- ① Engine oil inspection window
- ② Center stand
- ③ Rear brake pedal
- ④ Fuelcock
- ⑤ Gearshift lever
- ⑥ Side stand
- ⑦ Passenger hand rail
- ⑧ Clutch lever

- ⑨ Left handlebar switch
- ⑩ Speedometer
- ⑪ Tachometer
- ⑫ Ignition switch
- ⑬ Carburetor choke knob
- ⑭ Right handlebar switch
- ⑮ Front brake lever
- ⑯ Throttle grip



## CONTROLS

### KEY



The GS750E comes equipped with two (2) identical keys. Keep the spare key in a safe place.

Your motorcycle ignition keys are stamped with an identifying number. This number is used when making replacement keys.

Please write your key number in the box provided for your future reference.

### IGNITION SWITCH



The ignition switch has four (4) positions:

#### "OFF" POSITION

All electrical circuits are cut off.

#### "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.

#### "PARKING" POSITION ("P" POSITION)

When parking the motorcycle, turn the handlebar all the way to the right or to

the left. Push down and turn the key to the parking position. The key can now be removed and the taillight will remain lit and the steering will be locked. This position is for night time roadside parking to increase visibility.

#### "LOCK" POSITION

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

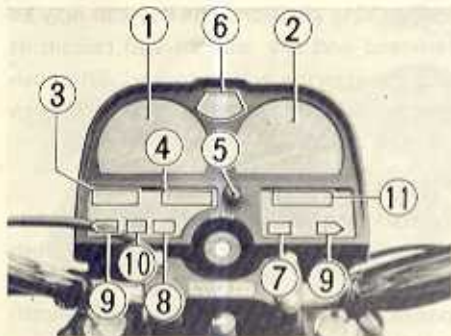
#### CAUTION:

Start the engine promptly after turning the ignition key to the "ON" position. The reason for this is that the headlight and taillight come on at the same time the ignition is turned on and will cause the battery to lose power.

#### WARNING:

Before turning the ignition switch to the (P) "PARK" or "LOCK" position, stop the motorcycle and place the motorcycle on either the side stand or the center stand.

## INSTRUMENT PANEL



### SPEEDOMETER ①

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

### TACHOMETER ②

The tachometer indicates the engine speed in revolutions per minute (RPM).

### ODOMETER ③

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

### TRIP METER ④

The trip meter is a resetable odometer located in the speedometer assembly. It can be used to indicate the distance traveled on short trips or between fuel stops. Pushing the knob ⑤ will return the meter to zero.

### FUEL GAUGE ⑥

The fuel gauge indicates the amount of gasoline remaining in the fuel tank. The "E" mark indicates the tank is empty or nearly so. The "F" mark indicates the fuel tank is full.

### 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.

### HIGH BEAM INDICATOR LIGHT ⑧

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

### TURN SIGNAL INDICATOR LIGHT ⑨

When the turn signals are being operated either to the right or left side, the amber indicator light will flash.

### OIL PRESSURE INDICATOR LIGHT ⑩

With the ignition switch in the "ON" position but the engine not started, the oil pressure indicator light should be lit. As soon as the engine is started, the light should go out.

### CAUTION:

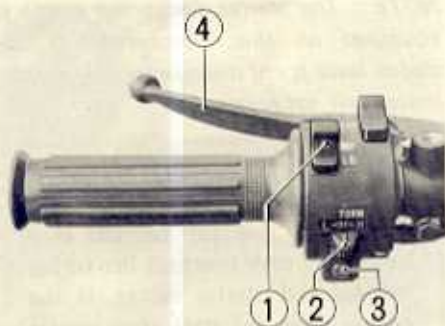
Whenever the oil pressure indicator lights up, indicating no oil pressure, stop the engine immediately. First check the oil level and determine if the proper amount of oil is in the engine. If the oil level is low, refill the engine to the correct level. If the light still does not go out, then have your authorized Suzuki dealer inspect your motorcycle to determine the difficulty. Do not operate the motorcycle when the light is lit as it may cause serious damage to the internal parts of the engine or transmission.

### GEAR POSITION INDICATOR ⑪

The numeral in this indicator shows the gear position, 1, 2, 3, 4, or 5. The numeral disappears as you shift back to neutral, NEUTRAL INDICATOR LIGHT (green) will light instead.



## LEFT HANDLEBAR SWITCH



- (1) Dimmer switch
- (2) Turn signal switch
- (3) Horn button
- (4) Clutch lever

### DIMMER SWITCH ①

The headlight will always be lit when the ignition switch is in the "ON" position. When the dimmer switch is moved to the "HIGH" position, the high beam will be lit. At the same time that the high beam is lit, the high beam indicator will also light in the center instrument panel. When the dimmer switch is moved to the "LO" position, the low beam will be lit.

### TURN SIGNAL SWITCH ②

Sliding the switch to the "L" position will flash the left turn signal. Moving the switch to the "R" position will flash the right turn signal. The pilot or indicator light will also flash intermittently.

### WARNING:

Always use the turn signal when you intend to change lanes or make a turn. **ALWAYS** be sure to turn the turn signal switch to the "OFF" position after completing the turn or lane change.

### HORN BUTTON ③

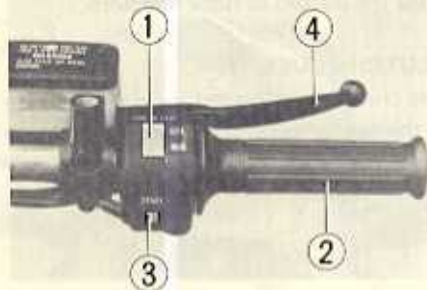
Press the button to honk the horn.

### CLUTCH LEVER ④

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



## RIGHT HANDLEBAR SWITCH



- (1) Engine kill switch
- (2) Throttle grip
- (3) Electric starter button
- (4) Front brake lever

### ENGINE KILL SWITCH ①

The engine "kill switch" is located on the top of the right handlebar grip switch housing. This is a "rocker" style switch which pivots in the center.

In the "RUN" position the ignition circuit is on and the engine will operate. The switch is intended primarily as a safety or emergency switch. When the switch is in the "OFF" position the starter motor cannot be energized, nor will the ignition circuit be energized.

### THROTTLE GRIP ②

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

### ELECTRIC STARTER BUTTON ③

Push the electric starter button in to engage the starter motor. The transmission should be in neutral for safety and the clutch disengaged during starting.

*NOTE: The starter disconnect switch is equipped on this motorcycle. If the clutch lever is not disengaged, the starting motor will not rotate.*

### CAUTION:

Do not engage the starter motor more than five (5) seconds at a time as it may overheat the wiring harness and starter motor. If the engine does not start after several attempts, check the fuel supply and ignition systems. (Refer to the troubleshooting section).

### FRONT BRAKE LEVER ④

The front brake is applied by squeezing the brake lever gently towards the throttle grip. The GS750E is equipped with a disc brake and excessive pressure is not required to slow the machine down properly. The brake light will be lit when the lever is squeezed inward.

## FUEL TANK CAP



The fuel tank cap is a new low profile style which blends in smoothly with the lines of the fuel tank. To open the fuel tank cap insert the ignition key and turn the key clockwise. With the key still held in a clockwise position, lift up on the key and remove the filler cap. To install the fuel tank cap, simply line up the fuel tank cap guide pins and push down until the locking pins click into position as the arrow mark on the cap faces forward. The key must be in the cap lock or turned before installing cap. Turn the key counterclockwise and remove it.

### WARNING:

When re-fueling, always shut the engine off and turn the ignition key to the "OFF" position. Never re-fuel around an open flame.

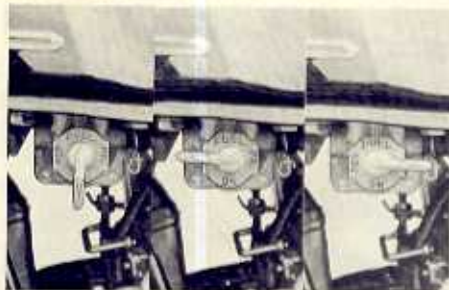
## CARBURETOR CHOKE KNOB



The GS750E carburetors are equipped with a "choke" system to provide easy starting. When starting a cold engine, pull the choke knob all the way up and engage the electric starter. After the engine starts, try to limit the engine RPM to approximately 2,000 RPM by varying the choke knob position. The choke system will operate only when the throttle is in the closed position as opening the throttle will bypass the choke system. When the engine is warm, the choke system does not need to be used for starting. Always be certain to push the choke knob back to its normal position after the engine reaches normal operating temperatures.



## FUELCOCK



ON RESERVE PRIME

This motorcycle is equipped with an automatic type, diaphragm style fuelcock. There are three (3) positions: "ON", "RESERVE" and "PRIME".

"ON" The normal position for the fuelcock lever is on the "ON" position. In this position, no fuel will flow from the fuelcock to the carburetor unless the engine is running or being started.

### "RESERVE"

If the fuel level in the tank is too low, turn the lever to the "RESERVE" position to use the 4.0 liters (4.2 US qt.) of the reserve fuel supply. In this position, no fuel will flow from the fuelcock to the carburetor unless the engine is running or being started.

### "PRIME"

If the motorcycle has run out of fuel or has been stored for an extended period, there may not be any gasoline in the carburetors. In this instance the fuelcock lever should be moved to the "PRIME" position. This will allow the fuel to flow directly into the carburetors even though the engine is not operating. Upon starting the engine, be sure to return the lever to the "ON" position or, if necessary, to the "RESERVE" position.

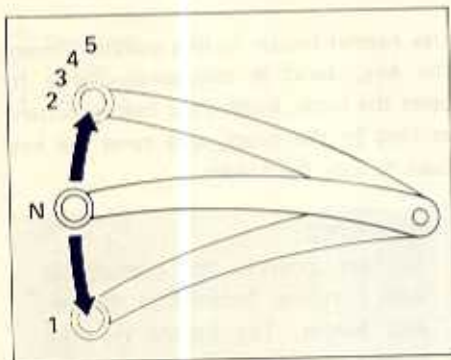
### CAUTION:

Leaving the fuelcock in the "PRIME" position may cause the carburetors to overflow and fuel to run into the engine. It is possible that this may cause severe mechanical damage when the engine is started.

*NOTE: After switching the fuel tank supply to the "RESERVE" position, it is advisable that the tank be refilled at the closest gas station. After re-fueling, be sure to move the fuelcock to the "ON" position.*



## GEARSHIFT LEVER



The GS750E is equipped with a 5-speed constant mesh transmission which operates as shown in the figure. The shift lever is attached to a ratchet type mechanism in the transmission. Each time that a gear is selected, the gear shift lever will return to its normal position ready to select the next gear. Neutral is located between low and 2nd gear. Low gear is engaged by depressing the lever downward from the neutral position. Shifting into the higher gears is accomplished by lifting up on the shift lever once for each gear. It is not possible to up shift or down shift more than one gear at a time due the ratchet mechanism being used. When shifting from low to 2nd gear or 2nd gear to low, neutral will be automatically skipped. When neutral is desired, depress or lift the lever to a position halfway between low and 2nd gear.

### CAUTION:

When the transmission is in neutral the green indicator light will be lit on the instrument panel. However, even though the light is lit, cautiously release the clutch lever slowly to determine whether the transmission is positively in neutral.

Reduce your road speed before downshifting. When down shifting, the engine RPM's should be increased before the clutch is engaged. This will prevent unnecessary wear on the drivetrain components and rear tire.

## REAR BRAKE PEDAL



Depressing the rear brake pedal will apply the rear disc brake. The brake light will be lit when the rear brake is operated.

## SEAT LOCK



The seat lock is located behind the seat. To remove the seat, insert the ignition key clockwise until the lock is released. Raise and slide back the seat by hand and unhook the seat hooks from the seat holding hooks. To lock the seat, hook the seat hooks into the seat holding hooks certainly, push down firmly, insert the key into the lock, push and turn the key counter clockwise and lock.

## HELMET HOLDER

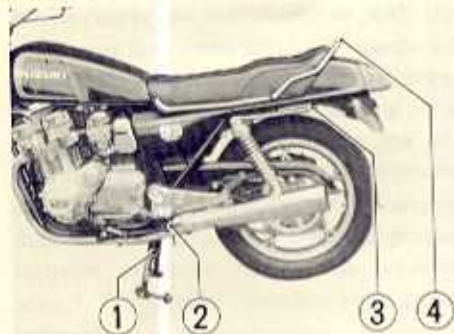


Use helmet holder in this manner: Insert the key, twist it counter-clockwise to open the latch, hook your helmet fastener ring to the latch, and twist the key back to lock the holder.

### **WARNING:**

Do not operate the motorcycle with a helmet fastened to the helmet holder. The helmet may be caught in the wheel causing an accident, or interfere with the safe operation of the motorcycle.

## STANDS



- ① Center stand
- ② Side stand
- ③ Lift bar
- ④ Hand rail

The motorcycle is equipped with both a center stand and a side stand. To place the motorcycle on the center stand, place your foot firmly on the stand extension and then rock the motorcycle to the rear and upward with the lift bar with your right hand, while steadying the handlebars with your left hand.

### CAUTION:

The hand rail is designed to be used as a passenger hand hold only. Attempting to place or remove the motorcycle on or from the center stand using the passenger hand rail will damage it.



## FUEL AND OIL RECOMMENDATION

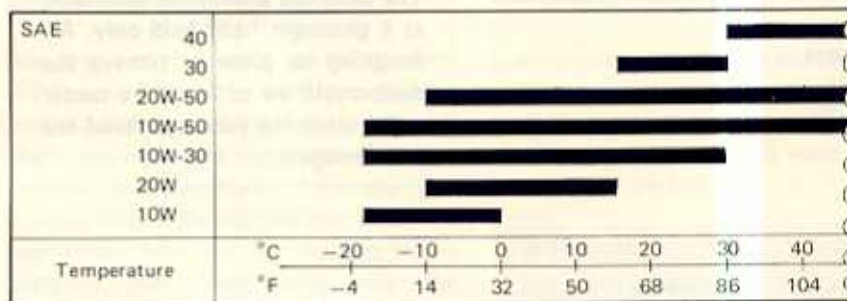
### FUEL

Use only unleaded or low-lead type gasoline of at least 85 – 95 pump octane (  $\frac{R+M}{2}$  method ) or 89 octane or higher rated by the Research method. If engine pinging is experienced, substitute another brand as there are differences between brands.

*NOTE: Unleaded and low-lead gasoline will extend spark plug life.*

### ENGINE OIL

Using a premium quality four stroke motor oil will increase the service life of your motorcycle. Use only oils which are rated SE under the API classification system. The viscosity rating should be SAE 10W-40. If the SAE 10W-40 motor oil is not available, select an alternate according to the chart below.



Suzuki parts are manufactured with the best possible materials. All machined parts are finished to a very fine tolerance. It is necessary to allow these moving parts to "break-in" before subjecting the engine to full throttle stresses. The ultimate performance and reliability of the engine depends on the special care and proper restraint exercised during the break-in period. The general operating rules are as follows:

During the break-in period, the engine speed should be fluctuated and not held at a constant speed. This allows the engine parts to be "loaded" with pressure and then the pressure is decreased and the parts can 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 insure this mating process. Operating the engine at constant low rpms (light load) can cause the parts to glaze and not seat properly.

After the engine has been operated for 1,000 miles, the motorcycle can be subjected to full throttle operation for short periods of time. Under no circumstances should the engine red line of 9,500 rpm be exceeded.

|                                    |                    |
|------------------------------------|--------------------|
| Initial<br>500 miles<br>(800 km)   | Below<br>4,000 rpm |
| Up to<br>1,000 miles<br>(1,600 km) | Below<br>6,000 rpm |
| Over<br>1,000 miles<br>(1,600 km)  | Below<br>9,500 rpm |

# INSPECTION BEFORE RIDING

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 machine.

| WHAT TO CHECK          | CHECK FOR:  |
|------------------------|---|
| Steering               | 1) Smoothness<br>3) No play or looseness<br>2) No restriction of movement   |
| Brakes                 | 1) Proper pedal and lever play<br>3) No fluid leakage<br>2) No "sponginess"   |
| Tires                  | 1) Proper pressure<br>3) No cracks or cut spots<br>2) Adequate tread depth  |
| Fuel                   | Enough fuel for the planned distance of operation   |
| Lighting               | Operation of all lights – HEADLIGHT, TAILLIGHT, BRAKE LIGHT, LICENSE PLATE LIGHT, INSTRUMENT LIGHTS, TURN SIGNALS           |
| Indicator Lights       | Oil Pressure, High beam, Neutral, Turn signal   |
| Horn and "Kill Switch" | Proper function   |
| Engine Oil             | Proper level  |
| Throttle               | 1) Proper play in the throttle cable<br>2) Smooth operation and positive return of the throttle grip to the closed position |
| Clutch                 | 1) Proper play in the cable<br>2) Smooth and progressive action   |
| Drive Chain            | 1) Proper tension or slack<br>2) Adequate lubrication   |
| Air Forks              | 1) Smooth movement<br>2) Recommended air pressure   |



## RIDING TIPS

### STARTING THE ENGINE

Check that the fuelcock lever is in the "ON" position and that the engine kill switch is in the "RUN" position. Insert the ignition key into the ignition switch and turn it clockwise one notch to the "ON" position. The neutral indicator light will light if the transmission is in neutral.

#### **CAUTION:**

Always start the engine with the transmission in neutral, the clutch lever pulled in, and the rider in the normal riding position.

#### **When the engine is cold:**

Pull the carburetor choke knob to the engaged position all the way. Close the throttle completely and squeeze the clutch lever. Push the electric starter button and the engine will start. Immediately after the engine starts, keep the engine revolutions to a maximum of 2,500 rpm's by using the choke knob position for throttle control.

Push the choke knob all the way back to its normal disengaged position approximately 50 seconds after the engine starts.

In extremely cold weather it may be necessary to use the choke longer than 50 seconds.

#### **When the engine is warm:**

Open the throttle 1/8th to 1/4th turn and push the electric starter button. Operation of the carburetor choke system is usually not necessary when the engine is warm.

#### **WARNING:**

Do not run the engine indoors where there is little or no ventilation available. Carbon monoxide fumes are extremely poisonous. Never leave the motorcycle running while unattended, even for a moment.

### STARTING OFF

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 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 and release the clutch lever and open the throttle again. Select the gears in this manner until top gear is reached.

## USING THE TRANSMISSION

The transmission is provided to keep the engine operating smoothly in its normal operating rpm 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. The table below shows the approximate speed range for each gear.

## RIDING ON HILLS

- When climbing steep hills, the motorcycle may begin to slow down and "lug" the engine excessively. 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 riding down a hill, the engine may be used for braking by shifting to a lower gear.
- Be careful, however, not to allow the engine to over rev.

|                      |            |            |            |            |            |
|----------------------|------------|------------|------------|------------|------------|
| miles/h              | 0 ~ 12     | 12 ~ 19    | 19 ~ 25    | 25 ~ 31    | Over 31    |
| <b>Gear position</b> | <b>1st</b> | <b>2nd</b> | <b>3rd</b> | <b>4th</b> | <b>5th</b> |
| km/h                 | 0 ~ 20     | 20 ~ 30    | 30 ~ 40    | 40 ~ 50    | Over 50    |

## WARNING:

- (1) If this is the first time that you have ridden a machine of this type, we suggest that you practice on a non-public road to become thoroughly familiar with the controls and operation of the motorcycle.
- (2) Before starting off, always return the side stand to its normal "up" position.
- (3) Slow down to a safe speed before starting around a corner.
- (4) Don't down shift in the midst of cornering.
- (5) One-hand riding is extremely dangerous. Keep both hands firmly on the handlebars and both feet securely on the foot rests. Under no circumstances should both hands be removed from the handlebars.



## USING THE BRAKES AND PARKING

- Twist the throttle grip away from yourself to close the throttle completely.
- Apply the front and rear brakes evenly and at the same time.
- Downshift through the gears as road speed decreases.
- Select neutral with the clutch lever squeezed towards the grip (disengaged position) just before the motorcycle stops. Neutral position can be confirmed by observing the neutral indicator light.

*NOTE: Inexperienced riders tend to use the rear brake only. This can lead to premature brake wear and excessive stopping distances.*

### **WARNING:**

Using only the front or rear brake is dangerous and can cause skidding and loss of control.

- Apply the brakes lightly and with great care on wet highway pavement or other slippery surfaces and at all corners. Any abrupt braking on slippery or irregular roads can be particularly dangerous.
- If the motorcycle is to be parked on the side stand and on a slight slope, you may wish to leave the motorcycle in 1st gear to prevent it from rolling off of the side stand. Return to neutral before starting engine.
- Turn the ignition switch to the "OFF" position to stop the engine.
- Lock the steering for security.
- Remove the ignition key from the switch.

## HIGH SPEED RIDING

High speed riding requires that certain adjustments be made to the suspension system of the motorcycle. Tire pressures should also be increased for high speed riding as described on page 45.

### **CAUTION:**

Never allow the engine to exceed 9,500 rpm's in any gear.

### **WARNING:**

High speed cruising requires special care. Be sure that you review the pre-ride instruction chart and be sure that your machine is in top condition. Do not exceed the posted speed limits.



## EMISSION INFORMATION

### EPA

MAINTENANCE, REPLACEMENT, OR REPAIR OF THE EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY MOTORCYCLE REPAIR ESTABLISHMENT OR INDIVIDUAL USING ANY MOTORCYCLE PART WHICH HAS BEEN CERTIFIED UNDER THE PROVISIONS IN THE CLEAN AIR ACT Sec. 207 (a) (2).

### COMPLIANCE LABEL

The EPA compliance label is located on the rear fender. It provides much of the data required to perform an engine tune up on your GS750E.

### VEHICLE EMISSION CONTROL INFORMATION

SUZUKI MOTOR CO., LTD.  DISPLACEMENT: 747CC  
ENGINE FAMILY NAME: EPA : BSK074744AD SUZUKI : GS75  
ENGINE TUNE-UP SPECIFICATIONS: ALL ADJUSTMENTS ARE TO BE PERFORMED WITH TRANSMISSION IN NEUTRAL.  
IGNITION TIMING: 15° BTDC AT IDLE SPEED.  
IDLE SPEED: 1,050 RPM-ADJUSTMENT IS MADE BY TURNING THE THROTTLE STOP SCREW.  
IDLE AIR/FUEL: NO ADJUSTMENT IS NECESSARY.  
FUEL: LOW-LEAD OR UNLEADED GASOLINE  
ENGINE OIL: SE OR SD IN API CLASSIFICATION, AND VISCOSITY RATING OF SAE 10W-40  
REFER TO YOUR OWNER'S MANUAL FOR ADDITIONAL MAINTENANCE INSTRUCTIONS.  
THIS VEHICLE CONFORMS TO U.S.E.P.A. REGULATION APPLICABLE TO 1981 MODEL YEAR NEW MOTORCYCLES.

# PERIODIC MAINTENANCE SCHEDULE

## 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 operation in a dusty climate certain services should be performed more often to insure reliability of the machine as explained in the maintenance section. Your Suzuki dealer can provide you with further guidelines. Steering components, suspension 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.

### WARNING:

Proper break-in maintenance (600 miles or 1,000 km) is a **MANDATORY** item for making certain that your machine is reliable and gives full performance at all times. Be sure that this periodic maintenance is performed thoroughly and in accordance with the instructions in this manual.

### CAUTION:

Periodical inspections may reveal one or more parts that may need replacement. Whenever replacing parts on your motorcycle, it is recommended that you use Genuine Suzuki replacement parts or their equivalent. Whether you are an expert or do-it-yourself mechanic, Suzuki recommends that those items on the Inspection Chart marked with an asterisk (\*), be performed by your authorized Suzuki dealer. You may perform the unmarked items easily by referring to the instructions in this section.

| INTERVAL: THIS INTERVAL SHOULD BE JUDGED BY ODOMETER READING OR MONTHS, WHICHEVER COMES FIRST | mile  | 600  | 4,000 | 7,500  | 11,000 | 15,000 |
|---|-------|--|-------|--------|--------|--------|
|   | km    | 1,000  | 6,000 | 12,000 | 18,000 | 24,000 |
|   | month | 2  | 12    | 24     | 36     | 48     |
| Battery (Specific gravity of electrolyte)   |       | —  | I     | I      | I      | I      |
| *Cylinder head nuts & exhaust pipe bolts  |       | T  | T     | T      | T      | T      |
| Air cleaner element   |       | Clean every 2,000 miles (3,000 km), and replace every 7,500 miles (12,000 km). |       |        |        |        |

NOTE: T = Tighten, A = Adjust, I = Inspect, R = Replace, C = Clean.

| INTERVAL: THIS INTERVAL SHOULD BE JUDGED BY ODOMETER READING OR MONTHS, WHICHEVER COMES FIRST | mile   | 600   | 4,000 | 7,500  | 11,000 | 15,000 |
|---|--|-------|-------|--------|--------|--------|
|   | km   | 1,000 | 6,000 | 12,000 | 18,000 | 24,000 |
|   | month  | 2     | 12    | 24     | 36     | 48     |
| * Valve clearance   |  | I     | I     | I      | I      | I      |
| Spark plugs   |  | —     | C     | R      | C      | R      |
| * Fuel line   | Replace every two years                        |       |       |        |        |        |
| Engine oil and oil filter   |  | R     | R     | R      | R      | R      |
| Carburetor idle rpm   |  | I     | I     | I      | I      | I      |
| Clutch  |  | I     | I     | I      | I      | I      |
| Drive chain   |  | I     | I     | I      | I      | I      |
|   | Clean and lubricate every 600 miles (1,000 km) |       |       |        |        |        |
| * Brake hose  | Replace every two years                        |       |       |        |        |        |
| * Brake   |  | I     | I     | I      | I      | I      |
| Tire  |  | I     | I     | I      | I      | I      |
| * Steering  |  | I     | I     | I      | I      | I      |
| Front fork  |  | —     | —     | I      | —      | I      |
|   | Check air pressure every 6 months.             |       |       |        |        |        |
| * Chassis bolts and nuts  |  | T     | T     | T      | T      | T      |

NOTE: T = Tighten, I = Inspect, R = Replace, C = Clean

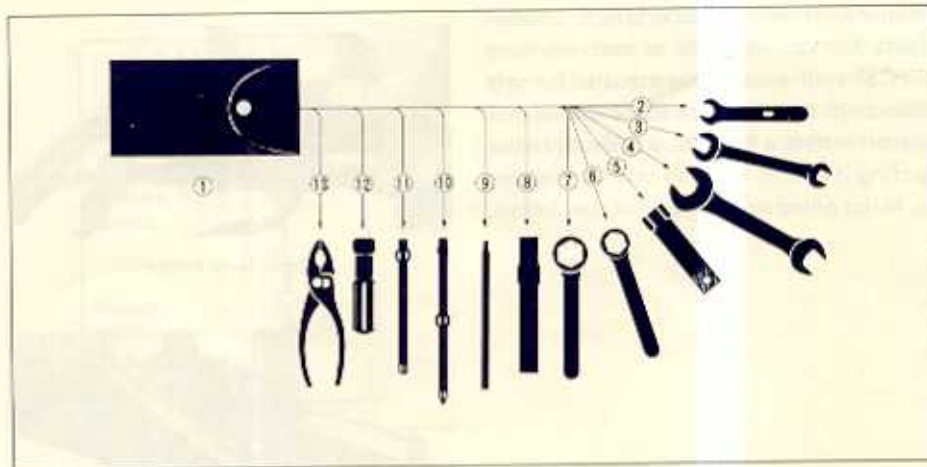


# INSPECTION AND MAINTENANCE

## TOOLS

To assist you in the performance of periodic maintenance, a tool kit is supplied and is located in the rear tail section behind the seat. The tool kit consists of the following items.

| Ref. No. | Item                          |
|----------|-------------------------------|
| 1.       | Tool Bag                      |
| 2.       | 8mm Open End Wrench           |
| 3.       | 10 x 12mm Open End Wrench     |
| 4.       | 14 x 17mm Open End Wrench     |
| 5.       | Spark Plug Socket Wrench      |
| 6.       | 19mm Ring Wrench              |
| 7.       | 24mm Ring Wrench              |
| 8.       | Ring Wrench Handle            |
| 9.       | Socket Wrench Handle          |
| 10.      | Combination Screw Driver      |
| 11.      | Cross Head Screw Driver       |
| 12.      | Screw Driver Handle           |
| 13.      | Pliers                        |
| 14.      | Front Fork Air Pressure Gauge |



### OILING CHART

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



Brake lever holder



Side stand pivot



Clutch lever holder



Rear brake rod link



Clutch cable



Drive chain

## BATTERY



The battery solution level may be inspected by removing the right frame cover. The solution level must be kept between the upper and lower level lines at all times. If the solution level is below the lower limit line, add **ONLY** distilled water up to the upper limit line. **NEVER** use tap water.

### **WARNING:**

Once the battery has been initially serviced, **NEVER** add diluted sulphuric acid.



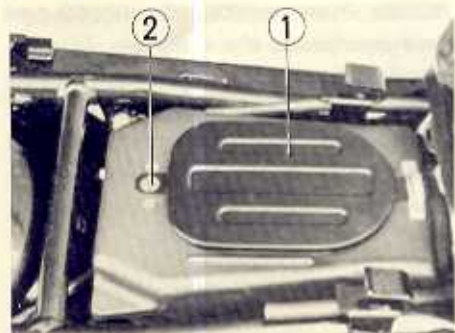
### **CAUTION:**

Be careful not to bend, obstruct, or change the routing of the air vent tube from the battery. Make certain that the vent tube is attached to the battery vent fitting and that the opposite end is always open.

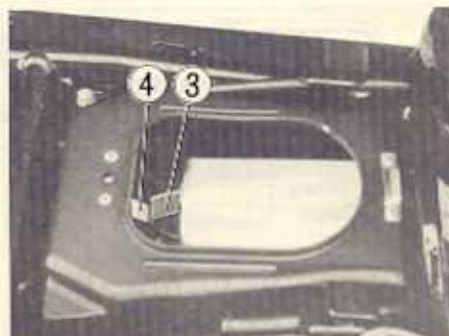
*NOTE: Every 4,000 miles (6,000 km) have your dealer check the specific gravity of the battery's cells with a battery hydrometer. This will determine the exact condition of each of the six (6) cells.*



## AIR CLEANER



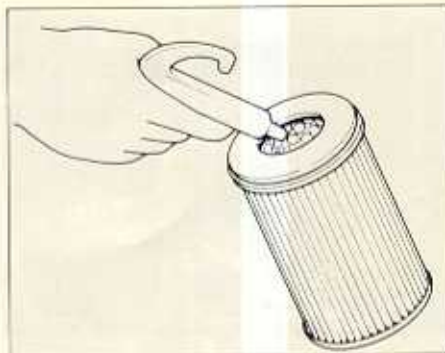
- ① Air cleaner case cover
- ② Screw



- ③ Spring bracket
- ④ Securing spring

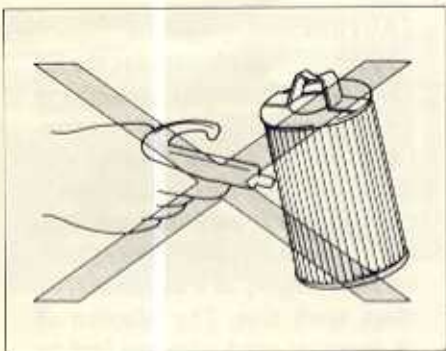
The air cleaner element used in the GS 750E is a paper type. If the element has become clogged with dust, intake resistance will increase with a resultant decrease in power output and an increase in fuel consumption due to the richer mixture. Check and clean the air cleaner element every 2,000 miles (3,000 km) according to the following procedure.

- (1) Open the seat and remove the air cleaner case cover by unscrewing the one (1) Phillips head screw.
- (2) Remove the air cleaner element by pulling up on the spring retainer bracket.
- (3) Carefully use an air hose to blow the dust from the air cleaner element.



### CAUTION:

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

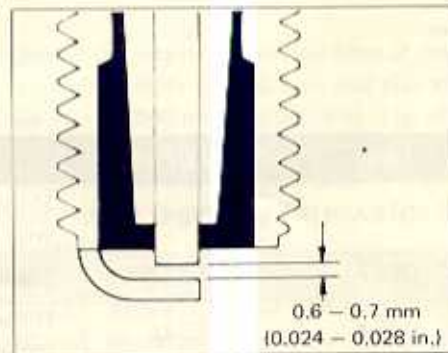
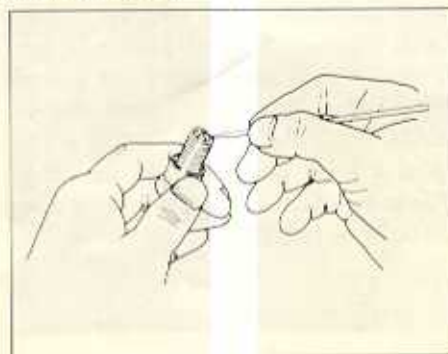


- (4) Reinstall the cleaned element or new air cleaner element in reverse order of removal, making sure that the spring bracket is properly engaged with the securing spring. Be absolutely sure that the element is securely in position and is sealing properly. Replace the air cleaner element with a new one every 7,500 miles (12,000 km).

**CAUTION:**

If driving under dusty conditions, the air cleaner element must be cleaned or replaced more frequently. **NEVER OPERATE THE ENGINE WITHOUT THE ELEMENT IN POSITION.** Operating the engine without the air cleaner element will increase engine wear. Always be sure that the air cleaner element is in excellent operational condition at all times. The life of the engine depends largely on this single component.

**SPARK PLUGS**



At 4,000 miles (6,000 km), remove the carbon deposits from the spark plug with a small wire brush or a spark plug cleaning machine. Readjust 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 plugs should be replaced every 7,500 miles (12,000 km).

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. If the standard plug is wet appearing or very dark in color, the hotter spark plug may be more suitable. A normal operating spark plug should be very light gray in color. If the spark plug is very white or glazed appearing, then it has been operating much too hot. This spark plug should be replaced with the colder plug.

| NGK  | NIPPON DENSO | REMARKS  |
|------|--------------|--|
| D7EA | X22ES-U      | If the standard plug is apt to get wet, replace with this plug.  |
| D8EA | X24ES-U      | Standard   |
| D9EA | X27ES-U      | If the standard plug is apt to overheat, replace with this plug. |

**CAUTION:**

The standard spark plug for the GS 750E has been carefully selected to meet the vast majority of all operational ranges. If the spark plug color indicates that other than a standard spark plug be used, it is best to consult your Suzuki dealer before changing to a different heat range spark plug. The selection of an improper spark plug can lead to severe engine damage. Selecting another brand of spark plug other than NGK or Nippon Denso, may also lead to operational difficulties. You should consult your authorized Suzuki dealer before selecting an alternate brand.



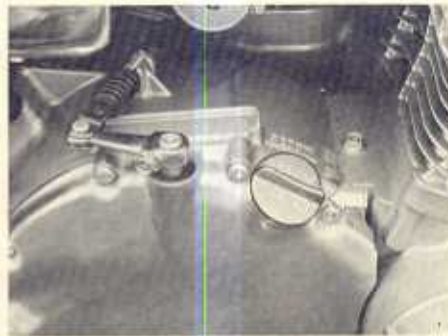
## ENGINE OIL AND OIL FILTER



Drain plug



Engine oil inspection window



Oil filter cap

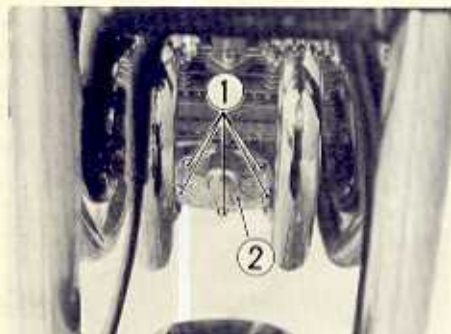
Superior engine life depends much on the selection of quality oil and the periodic changing of the oil. Daily oil level checks and periodic changes are two of the most important maintenances to be performed.

### CAUTION:

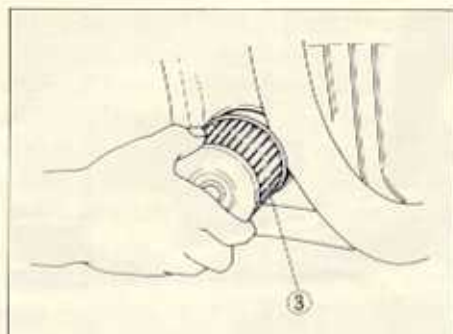
**Never operate the motorcycle if the engine oil level is below the "L" (low) line in the inspection window. Never fill the engine oil level above the "F" (full) line.**

Change the engine oil and oil filter at the initial 600 miles (1,000 km) and also at the every 4,000 miles (6,000 km). The oil should always be changed when the engine is hot so that the oil will drain thoroughly from the engine. The procedure is as follows:

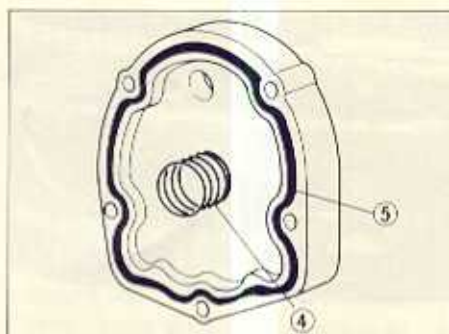
*NOTE: About 3,200 ml (3.4 US qt.) of oil will be required when changing oil only.*



① Nut ② Filter cap



③ Oil filter



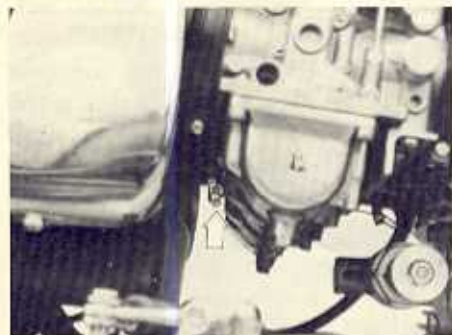
④ Spring ⑤ "O" ring

- (1) Place the motorcycle on the center stand.
- (2) Drain the engine oil by removing the drain plug from the bottom of the engine.
- (3) Remove the five (5) nuts holding the filter cap in place.
- (4) Remove the filter cap, pull out the element and replace with a new oil filter element. The rubber sealing ring is installed facing the engine.
- (5) Before replacing the oil filter cover, check to be sure that the filter spring and the cap "O" ring are installed correctly.
- (6) Replace the oil filter cover and tighten the nuts securely.
- (7) Replace the drain plug and tighten it securely. Add approximately 3,800 ml (4.0 US qt.) fresh oil through the filler hole will be required.
- (8) Start the engine and allow it to idle for several seconds.
- (9) Turn the engine off and wait approximately one (1) minute, and then recheck the oil level in the engine oil inspection window. The oil level should be at the "F" mark. If lower than the "F" mark, add oil until it reaches the mark.

**CAUTION:**

Be sure to always use the specified engine oil described on page 20.

## CARBURETOR



Throttle stop screw

Undisturbed carburetion is the basis of the performance you ought to expect of your engine. The carburetor is factory-set for the best carburetion. Do not attempt to alter its setting. There are two items of adjustment, however, under your care: carburetor idle rpm and throttle cable play.

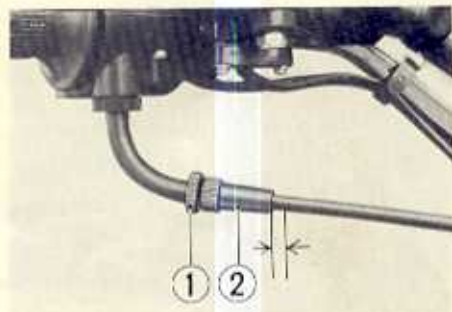
Inspect the carburetor idle rpm and throttle cable play at initial 600 miles (1,000 km) and every 4,000 miles (6,000 km).

### CARBURETOR IDLE RPM ADJUSTMENT

- (1) Start up the engine and warm it up by running it at 2,000 rpm for 10 minutes in summer (where ambient temperature is 30°C (86°F) or thereabout) or for 20 minutes in winter (where ambient temperature is down to -5°C (23°F) or thereabout).
- (2) After engine warms up, turn the throttle stop screw located under the carburetor in or out so that engine may run at 1,050 ± 100 rpm.

#### CAUTION:

The carburetor idle rpm should be adjusted after the engine warms up.

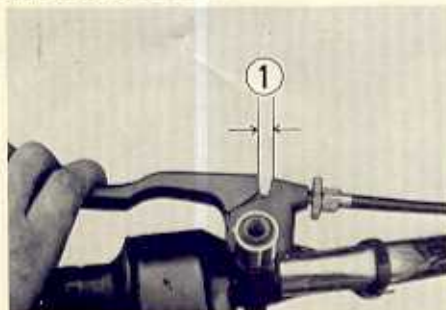


### THROTTLE CABLE ADJUSTMENT

- 1) Loosen lock nut ①.
- 2) Adjust the cable slack by turning adjuster ② in or out to obtain the correct slack 0.5 – 1.0 mm (0.02 – 0.04 in).
- 3) After adjusting the slack, tighten the lock nut.



## CLUTCH ADJUSTMENT



① Clutch cable play

At initial 600 miles (1,000 km) and every 4,000 miles (6,000 km), adjust the clutch by means of clutch cable adjuster.

The play ① of the clutch should be 2 – 3 mm (0.08 – 0.12 in) as measured at the clutch lever holder before the clutch begins to disengage. If you find the play of the clutch incorrect, adjust it in the following way.

- (1) Loosen clutch cable adjuster lock nut ②.



② Lock nut ③ Cable adjuster

- (2) Turn the clutch cable adjuster ③ to provide the specified play (2 – 3 mm).

- (3) Tighten the lock nut ②.

At the same time, lubricate the clutch cable with motor oil.

## CAMSHAFT DRIVE CHAIN TENSIONER



The camshaft drive chain is kept in proper adjustment by an AUTOMATIC camshaft drive chain tensioner. This automatic tensioner never needs servicing by the customer and the camshaft drive chain itself need not be checked for stretch or wear.

### CAUTION:

Never attempt to turn the tensioner wheel in either direction. Turning the wheel even slightly can jam the mechanism which will prevent it from adjusting the chain properly. An improperly adjusted chain can cause severe engine damage.

## DRIVE CHAIN

The GS750E is equipped with a special drive chain. It is an endless type that does not use a master link. We recommend that you take your GS750E to your authorized Suzuki dealer to have the drive chain replaced when it becomes worn.

The drive chain is also constructed of special materials and has grease permanently sealed inside it by the use of special sealing "O" rings.

### WARNING:

For maximum safety, the drive chain condition and adjustment should be checked prior to operating the motorcycle. Always follow the manufacturer's recommendations for replacement and for proper lubrication.

At the periodic inspections performed at the initial 600 miles (1,000 km) and every 4,000 miles (6,000 km), the drive chain should be inspected for the following conditions.

- (1) Loose pins
- (2) Damaged rollers
- (3) Dry or rusted links
- (4) Kinked or binding links
- (5) Excessive wear
- (6) Improper chain adjustment

If the drive chain has any of these items wrong with it, then there is a strong possibility that the sprockets will have some damage to them also. Inspect the sprockets for the following:

- (1) Excessively worn teeth
- (2) Broken or damaged teeth
- (3) Loose sprocket mounting nut(s)



## DRIVE CHAIN CLEANING AND OILING

Grease is permanently sealed inside the rollers of the GS750E chain by the use of special "O" rings. At intervals of 600 miles (1,000 km) clean and oil the chain, as follows:

- (1) Cleaning the chain with kerosene is strongly recommended. 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.



## ADJUSTING DRIVE CHAIN

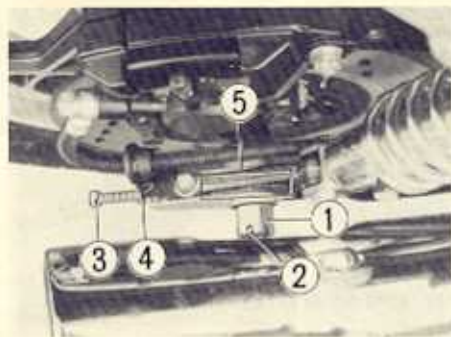
### CAUTION:

Do not use gasoline, trichlene or other commercial cleaning solvents. These fluids have a strong dissolving power that could damage the "O" rings in the chain. This will allow the grease to run out of the chain and the chain would have to be replaced.

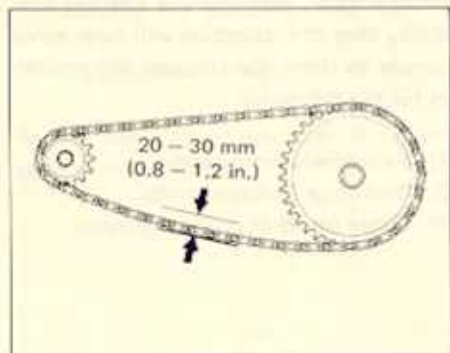
- (2) Oiling the chain. After thoroughly washing the chain and allowing it to dry, oil the links with a heavy weight motor oil, 40 or 50 weight.

### CAUTION:

Do not use any oil sold commercially as drive chain oil. These oils contain solvents and additives which could damage the "O" rings in the chain.



- ① Axle nut
- ② Cotter pin
- ③ Chain adjuster bolt
- ④ Lock nut
- ⑤ Reference mark



At the initial 600 miles (1,000 km) and a minimum of every 4,000 miles (6,000 km) adjust the drive chain to the proper specification. The chain may require more frequent adjustments depending upon your riding conditions.

### WARNING:

These recommendations are the maximum intervals between the adjustment periods. The drive chain adjustment should be checked every time that the machine is operated. Excessive chain slack could cause the chain to come off the sprockets and result in an accident or serious engine damage. To adjust the drive chain, follow these directions:

- (1) Place the machine on the center stand.
- (2) Remove the cotter pin and loosen the axle nut.



- (3) Loosen the lock nuts.
- (4) Adjust the slack in the drive chain by turning the right and left chain adjuster bolts in after loosening the lock nut. 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 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. After aligning and adjusting the slack in the drive chain to 20 – 30 mm (0.8 – 1.2 in.), retighten the axle nut securely and replace the cotter pin with a new one. Tighten the chain adjuster lock nuts and perform a final inspection.

**CAUTION:**

The drive chain for the GS750E is made of a special material. The chain should be replaced with either a DAIDO DID630V or a TAKASAGO RK630SD. Use of another chain may lead to premature chain failure.

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

## BRAKES



The GS750E utilizes front and rear disc brakes. Properly operating brake systems are vital to safe riding. Be sure to perform the brake inspection requirements as scheduled. The brakes should be inspected at the initial 600 miles (1,000 km) inspection and every 4,000 miles (6,000 km) thereafter, by your authorized Suzuki dealer.



#### BRAKE FLUID

##### **WARNING:**

Brake fluid may be harmful if swallowed or if it comes in contact with skin or eyes. Contact your physician immediately. If swallowed induce vomiting. If brake fluid gets into the eyes or in contact with the skin, it should be flushed thoroughly with plenty of water.

##### **CAUTION:**

The GS750E uses a glycol-based brake fluid. Do not use or mix different types of brake fluid such as silicone-based or petroleum-based fluid, otherwise serious damage will result to the brake system. Never use any brake fluid that has been stored in a used or unsealed container. Never reuse brake fluid left over from the last servicing and stored for long periods as it absorbs moisture from the air. Use only DOT 3 or DOT 4 brake fluid. Do not spill any brake fluid on painted or plastic surfaces as it will damage the surface severely.

Be sure to check the brake fluid level in the front and rear reservoirs. If the level was found to be lower than the full mark, replenish with the proper brake fluid that meets Suzuki's requirements. As the brake pads wear, the fluid level will drop to compensate for the new position of the brake pads. Replenishing the brake fluid reservoir is considered normal periodic maintenance.



Inspect the front brake pads by noting whether or not the friction pads are worn down to the red limit line. If a pad is worn to the red limit line it must be replaced with a new one.

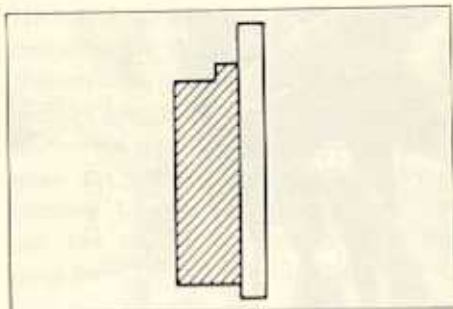




Inspect the rear brake pads for wear by noting whether or not the pad is worn down to the red limit line. If a pad is worn to the red limit line, the pad must be replaced with a new one. It is necessary to remove the pad inspection cap.

**WARNING:**

If the brake system or pads need to be repaired or serviced we strongly advise you to have your authorized Suzuki dealer perform service. He has the proper tools and proper training to perform the job in a safe and economical manner.



**CAUTION:**

Disc brake systems operate under extremely high pressures. For safety, the brake hose and brake fluid should be changed at intervals of no longer than two (2) years. Inspect your brake system for the following items daily.

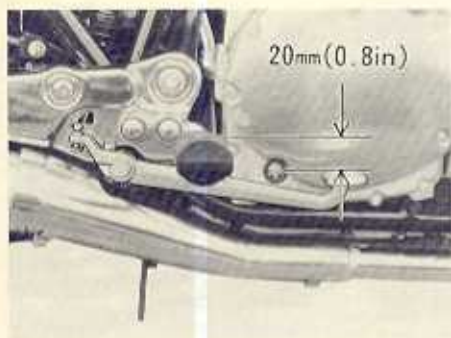
- (1) Inspect the front and rear brake system for signs of fluid leakage.
- (2) Inspect the brake hose for leakage or a cracked appearance.
- (3) The brake lever should have the proper stroke and be firm at all times.
- (4) Check the wear of the disc brake pads.



**FRONT BRAKE LIGHT SWITCH**

The front brake light switch is located beneath the front brake lever. Loosen the switch fitting screws and adjust the actuating point by moving the switch body to the right or to the left so that the brake light will come on just before a pressure rise is felt at the lever.

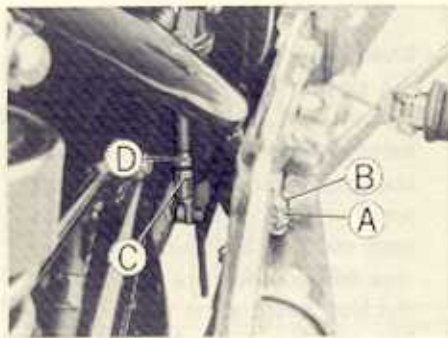




### REAR BRAKE PEDAL ADJUSTMENT

The rear brake pedal must have a specified amount of clearance at all times or the disc brake pads will rub the disc causing damage to the pads and to the disc surface. Adjust the brake pedal in the following manner:

- (1) Loosen lock nut (A) and turn the stopper bolt (B) away from the stopper lug.
- (2) Loosen lock nut (C), and rotate the push rod (D) to locate the pedal 20 mm (0.8 in) below the top face of the foot rest.



Be sure to measure this clearance carefully.

- (3) Retighten lock nut (C) to secure the push rod (D) in the proper position.
- (4) Adjust the clearance between the tip of the return stopper bolt (B) and the stopper lug so that the clearance is zero. Retighten the lock nut (A).



### REAR BRAKE LIGHT SWITCH

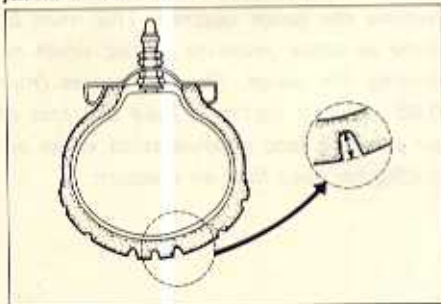
The rear brake light switch is located under the right frame cover. To adjust the brake light switch: raise or lower the switch so that the brake light will come on just before a pressure rise is felt when the brake pedal is depressed.

## TIRES

Check the tire inflation pressure and tire tread condition at the initial 600 miles (1,000 km) and each 4,000 miles (6,000 km) inspection. For maximum safety and good tire life, the tire pressures should be inspected more often.

### TIRE PRESSURE

Insufficient air pressure in the tires not only hastens tire wear but also seriously affects the stability of the motorcycle. Under inflated tires make smooth cornering difficult and overinflated tires decrease the amount of tire in contact with the ground which can lead to skids and loss of control. Be sure that the tire pressure is within the specified limits at all times. Tire pressure should only be adjusted when the tires are cold.



### TIRE TREAD CONDITION

Operating the motorcycle with excessively worn tires will decrease riding stability and can lead to loss of control. It is recommended that the front tire be replaced when the remaining depth of tire tread becomes 1.6 mm (0.06 in.) or less. The rear tire should be replaced when the tread becomes 2.0 mm (0.08 in.) or less.

#### WARNING:

The use of a tire type which is other than original equipment can lead to serious stability problems and possibly loss of control. Use only a 3.25H19 4PR front tire and a 4.00H18 4PR rear tire.

#### WARNING:

Tire inflation pressures and the general tire condition are extremely important to the proper performance and safety of the vehicle. Check your tires frequently for both wear and inflation pressures.

*NOTE: Refer to the tire information label on the rear fender.*

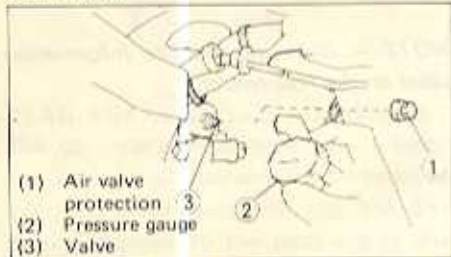
| COLD INFLATION TIRE PRESSURE |             | FRONT  |     |                    | REAR   |     |                    |
|------------------------------|-------------|--------|-----|--------------------|--------|-----|--------------------|
|                              |             | P.S.I. | kPa | kg/cm <sup>2</sup> | P.S.I. | kPa | kg/cm <sup>2</sup> |
| NORMAL RIDING                | SOLO RIDING | 25     | 175 | 1.75               | 28     | 200 | 2.00               |
|                              | DUAL RIDING | 25     | 175 | 1.75               | 32     | 225 | 2.25               |
| CONTINUOUS HIGH SPEED RIDING | SOLO RIDING | 28     | 200 | 2.00               | 32     | 225 | 2.25               |
|                              | DUAL RIDING | 28     | 200 | 2.00               | 40     | 280 | 2.80               |



## FRONT SUSPENSION

The GS750E front suspension is pneumatic/coil spring or more commonly referred to as "air" forks. Each fork tube contains compressed air and a light coil spring as well as fork oil.

The GS750E is serviced at the factory with 0.5 kg/cm<sup>2</sup> of air pressure in the front forks.



- (1) Air valve protection
- (2) Pressure gauge
- (3) Valve



## CHECKING FORK AIR PRESSURE

The motorcycle should be placed on its center stand and all weight removed from the front end by jacking up the front of the chassis or engine. Remove the air valve protection and use the air pressure gauge to check the front fork air pressure. To raise the pressure, use a hand pump to add air to each fork leg. To lower the pressure, bleed the air out from the valve.

### CAUTION:

Do not attempt to alter the front fork air pressure setting by using a high pressure tire filler such as is available in gas stations. A hand type pump must be used to that no damage will occur to the fork assembly. Never use any air containing inflammable gases. Instead of ordinary air, nitrogen gas may be substituted if available. When pumping air in, never increase the pressure above 2.5 kg/cm<sup>2</sup>. This is the maximum permissible pressure to avoid fork oil seal and valve damage.

### CAUTION:

Be sure to keep air pressure between 0.5 kg/cm<sup>2</sup> and 0.8 kg/cm<sup>2</sup>.

### WARNING:

Equalize the air pressures of the two fork tubes. The maximum allowable difference is 0.1 kg/cm<sup>2</sup>. This will prevent unnecessary stress on the front axle and on the fork leg assemblies.

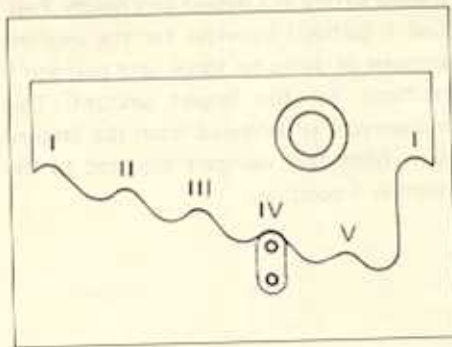
*NOTE: Fork air pressure, as with tire pressure, should be checked periodically (monthly) and especially after periods of non-use. When checking the pressure, be sure to apply the pressure gauge squarely to the air valve. After taking a reading, remove the gauge quickly. This must be done as some pressure is lost when removing the gauge. The loss ranges from 0.05 to 0.10 kg/cm<sup>2</sup>. Take this loss of air pressure into consideration when adjusting for your final air pressure.*



## REAR SUSPENSION

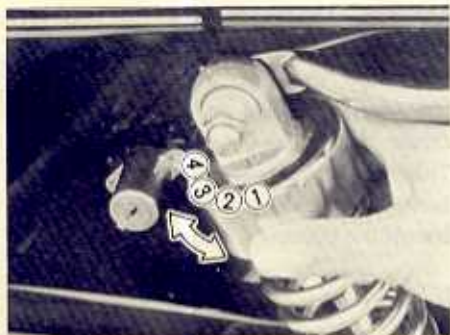
The rear shock absorber's spring preload and damping rate are adjustable. Spring preload can be altered to five different settings and the damping rate of four different settings.

These two variables can be adjusted to optimize the handling of the machine and the smoothness of the ride based on the speed, load, and road conditions.



## SPRING ADJUSTMENT

Turn the bottom spring seat, as shown in the photo, to the desired notch. This will change the preload on the spring and increase or decrease the stiffness of the ride. This motorcycle as delivered from the factory is adjusted so that both springs are on the number I notch.



#### DAMPING ADJUSTMENT

To increase or decrease the damping force, turn this adjusting ring. Damping adjustments, are indicated by the numbers 1 thru 4 engraved on the adjusting ring. As you turn the adjusting ring, you will notice a click as you reach each number position. When changing the damping, always be sure that the adjusting ring stops with the number visible, that a click is noticed and the ring feels as if it were sitting in a detent or a notch. Position 1 (softest) provides for the smallest amount of damping force, and position 4 (stiffest) for the largest amount. This motorcycle is delivered from the factory with both rear dampers adjusted to the number 1 position.

#### CAUTION:

Do not operate rear damper units in any positions other than the click or detented positions. If positions 2½, 3½, etc. are used, the damping force will automatically have the same damping force as number 4 (stiffest) position.

The rear suspension can be adjusted in accordance with your type of riding, road condition, speed, passenger weight, carrying load and etc.  
A list of the recommended combinations is provided and should be followed.

**WARNING:**

Be sure to adjust the springs and dampers of the two shock absorbers equally. Making one shock absorber harder than the other will severely disturb the running stability of the machine.

**Spring Setting**

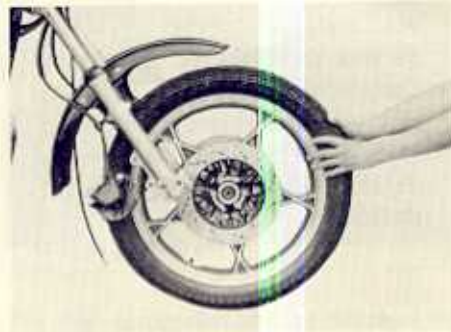
|     |       |
|-----|-------|
| I   | ..... |
| II  | ..... |
| III | ..... |
| IV  | ..... |
| V   | ..... |

**Damper Setting**

|        |
|--------|
| 1 or 2 |
| 2 or 3 |
| 3 or 4 |
| 3 or 4 |
| 4      |



## FRONT WHEEL REMOVAL



- (1) Place the motorcycle on the center stand.
- (2) Remove either one of two calipers, left or right, from the fork by unfastening its two mounting bolts. Remove the speedometer cable.

- (3) Remove the cotter pin that locks the axle nut into position, and then loosen the axle nut.
- (4) Draw out axle.

- (5) Lift the front end of the motorcycle up and place a jack or a block under the engine or chassis tubes.
- (6) Slide the front wheel forward. To reinstall the wheel assembly reverse the sequence as described.



**CAUTION:**

Before tightening the axle in place, locate the speedometer drive gear box as shown in the above photograph.

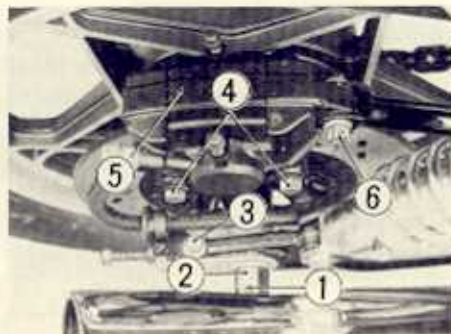
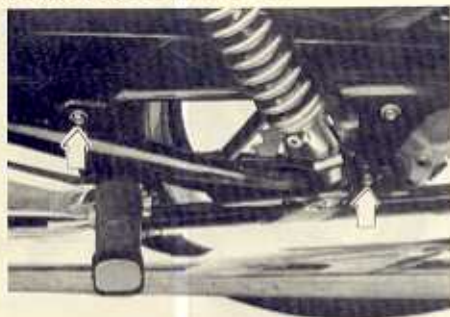
**WARNING:**

If the front wheel has to be removed, it is very important to have the loosened nuts and bolts torqued to the proper specifications. We suggest that you have this performed by an authorized Suzuki Dealer.

**CAUTION:**

Never squeeze the front brake lever with the front wheel removed. It is very difficult to force the pads back into the caliper assembly.

## REAR WHEEL REMOVAL

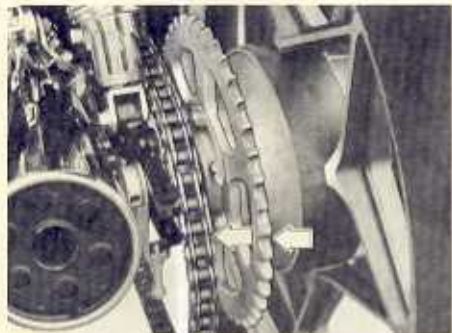


- (1) Place the motorcycle on the center stand.
- (2) Remove the two chain guard bolts and then remove the chain guard cover.

- |                |                         |
|----------------|-------------------------|
| ① Cotter pin   | ④ Caliper mounting bolt |
| ② Axle nut     | ⑤ Caliper               |
| ③ Support bolt | ⑥ Torque link bolt      |
- (3) Remove the cotter pin that locks the axle nut into position, then loosen the axle nut.
  - (4) Remove the caliper mounting bolts, the torque link bolt cotter pin and the torque link bolt. Pivot the caliper out of the way.

- (5) Pivot both chain adjusters downward, allowing the wheel to be pushed forward.





- (6) Remove the support bolts from each chain adjuster block and remove the adjuster block from swing arm.
- (7) With the wheel moved forward, remove the chain from the sprocket by slowly rotating the wheel, at the same time pulling the chain to the side.



- (8) Pull the wheel assembly rearward and remove it from the swing arm. Slide the drive chain off of the hub when the wheel is far enough to the rear to provide the clearance required.
- (9) To replace the wheel reverse the complete sequence listed.

**WARNING:**

If you have found it necessary to remove the rear wheel, it is very important that the nuts and bolts be torqued to the proper specification. We strongly recommend that you have these bolts checked and retorqued by your authorized Suzuki Dealer.

**CAUTION:**

- (1) When reinstalling the rear wheel, be sure to follow the procedure outlined in the drive chain adjustment section. Double check all nuts, bolts and cotter pins after reinstalling the rear wheel.
- (2) While removing the caliper from the mounting bracket it is possible for the brake hose to touch the muffler. If the muffler is still hot, the hose could be damaged. Protect the hose with a cloth or wait until the muffler cools.
- (3) When reinstalling the rear caliper, be careful not to twist the brake hose or route it improperly.

## LIGHT BULB REPLACEMENT

The wattage rating of each bulb is shown on the chart 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.

|                     |                     |
|---------------------|---------------------|
| Headlight           | 12V 60/55W          |
| Tail/Brake light    | 12V 8/23W (3/32 cp) |
| License plate light | 12V 8W (4 cp)       |
| Turn signal light   | 12V 23W (32 cp)     |

## HEADLIGHT



- (1) Remove three screws ① : take off the headlight assembly.
- (2) Roll up the rubber cap ② and unhook the bulb holder spring and you can pull out the bulb ③ .

### CAUTION:

In this model GS750E, the halogen light is used for the headlight. When replacing the headlight bulb, be careful not to touch the lens of its bulb.

## TAIL/BRAKE LIGHT



- ① Tail/Brake light
- ② License plate light



To replace the tail/brake light bulb or license plate light bulb, follow these directions:

- (1) Remove the four screws and take off the lens.
- (2) Push the bulb in, twisting it to the left until the engagement pins are disconnected and remove the bulb. To fit the replacement bulb into position, push the bulb in firmly and twist it to the right while pushing in.

**CAUTION:**

When replacing the lens, do not overtighten the four securing screws.

## TURN SIGNAL LIGHT



- (1) Remove two screws and take off the lens.
- (2) Push the bulb, twisting it to the left, and pull it off.
- (3) To fit the replacement bulb, push it in and twist it to the right while pushing.

**CAUTION:**

After setting the lens, be careful not to overtighten the two securing screws lest the lens should break.

## HEADLIGHT



- (1) Vertical line adjusting screw  
(2) Horizontal line adjusting screw

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

**To adjust beam vertically:**

Adjust the beam vertically by turning the vertical line adjusting screw.

**To adjust beam horizontally:**

Adjust the beam horizontally by turning the horizontal line adjusting screw.



## FUSE BOX/OUTPUT TERMINAL



The fuse box/output terminal is located inside the left hand frame cover. There are five fuses. If there is a sudden halting of the engine while running or any electrical system failure then the fuses must be checked. In case one or more of the fuses blow there are two spare fuses, a 15A and a 10 A fuses, located in the fuse box cover. For attaching electric accessories, the output terminal is provided under part of the fuse box.

When feeding current to an electric accessory from this output terminal, first remove fuse cover. Then, connect it to the terminal with extreme care not to

confuse its positive (+) and negative (-), following marks positive (+) and negative (-) on the terminal. After that, replace the fuse cover. The allowable current is 10A (12V).

### CAUTION:

This output terminal is strictly provided for electric accessories, and so, any other usages are forbidden. In actual use for any electric accessory, please consult Suzuki dealer. It should be noted that a burnt out fuse should be replaced, removing fuse cover.

### CAUTION:

Never use other than specified 10A fuse for the output terminal fuse.

### CAUTION:

Always be sure to replace the blown fuse with the correct amperage fuse. Never use a substitute, for example aluminum foil or wire, to replace a blown fuse. If the spare fuse installed blows out in a short period of time it means that you could have a major electrical problem. You should consult your Suzuki dealer immediately.

## FUSE LIST

1. 15A MAIN fuse protects all electrical systems.
2. 10A HD. LAMP fuse protects headlight, taillight, license plate light, instrument light and high beam indicator light.
3. 10A SIGNAL fuse protects brake light, turn signal lights, turn signal indicator light and horn.
4. 10A IGNITION fuse protects the ignition system and electrical start system.
5. 10A OUTPUT TERMINAL fuse protects the electric accessories.

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

- (1) Is there enough fuel in the fuel tank?
- (2) Is the fuel reaching the carburetors from the fuelcock?
- (3) Disconnect the fuel line from the carburetor, turn the fuelcock to the "PRIME" position and see if gasoline flows from the hose.
- (4) Then turn the fuelcock to the "ON" position and crank the engine for a brief moment and see if fuel still flows.
- (5) If it has been determined that fuel is reaching the carburetor, the ignition system should be checked next.

**WARNING:**

Do not allow the fuel to spill; catch the fuel in a container.

- (1) Remove a spark plug and re-attach it to the spark plug lead.
- (2) While holding the spark plug firmly against the engine, push the starter button with the ignition switch in the "ON" position and the engine "kill" switch in the "RUN" position. 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:**

Do not hold the spark plug close to the open spark plug hole in the cylinder head as gasoline vapor inside the cylinder could be ignited, creating a fire hazard.



### ENGINE STALLING

- (1) Check the fuel supply in the fuel tank.
- (2) Check the ignition system for intermittent spark.
- (3) Check the engine idle speed.

It is best to consult your Suzuki dealer before attempting to troubleshoot any problem. If the machine is still within the warranty, then the Suzuki dealer should definitely be consulted before any repairs are attempted on the machine by yourself. Tampering with the machine while in warranty may affect warranty consideration.



## PROCEDURE FOR STORAGE

### Materials Needed

1. Motor Oil.
2. Commercial Gasoline Stabilizer.
3. Commercial Rust Preventative Fogging Oil. (outboard motor type)
4. Commercial Aerosol Rust Preventative. (moisture displacing lubricant)
5. Commercial Vinyl and Rubber Preservative.
6. Hydrometer for Checking Battery Condition.
7. 1 Amp Battery Charger.

1. Place the motorcycle on its center stand.
2. Thoroughly clean the entire motorcycle. Run the bike until all traces of moisture are gone.
3. Pour the gasoline stabilizer into the fuel tank using the amount of stabilizer recommended by its manufacturer. Unstabilized fuel will form "gum" or "varnish" deposits that will plug the fuelcock and carburetor passageways.

*NOTE: Steps 4a and 4b are for protecting the top end engine components from rust and corrosion. Step 4b is to be used only if fogging oil is not available. Do either 4a or 4b, but DO NOT do both.*

- 4a. Remove the air cleaner element. While the engine is running at idle, spray the rust preventative fogging oil into the air cleaner box. Try to give each cylinder equal amounts of fogging oil. Do this until the engine stalls or emits smoke.
- 4b. Run the engine for a few minutes to get the stabilized fuel into the carburetors. Then, remove the spark plugs and pour 1 to 2 tablespoons of motor oil into each spark plug hole. Reinstall the spark plugs. DO NOT reinstall the spark plug caps at this time. Turn the engine over a few times with the electric starter. Now reinstall the spark plug cap.
5. Drain the old engine oil and remove the oil filter, but DO NOT replace it at this time. With fresh oil, refill the crankcase all the way up to the filler

cap hole. This step is necessary because the old oil contains acid, moisture and other contaminants that will damage the engine while it is stored.

6. Refill the fuel tank as completely as possible to eliminate any air space and to reduce the chances of the fuel becoming contaminated.
7. Remove the battery. Make sure to remove the negative terminal before the positive terminal. This will remove the battery from the circuit and will eliminate the chance of grounding the positive terminal with the screwdriver or wrench. Clean the outside of the battery with a mild baking soda and water solution and dry it carefully. Be sure not to get any solution inside the cells. Remove any corrosion from the terminals and from the wiring harness connections. Store the battery in a room that stays above freezing, off the floor, and preferably on a wooden shelf.
8. Spray all of the vinyl and rubber parts with the rubber preservative.



9. Spray the unpainted surfaces of the motorcycle with the rust preservative.
10. Deflate the tires to approximately 20 PSI and block up the front of the motorcycle so both front and rear tires are off of the ground. This will keep the tires from developing permanent "flat" spots.

During the storage period, be sure to do the following things:

#### Once A Week

Turn the engine over a few times by removing the spark plugs and putting the transmission in 5th gear and turning the rear wheel. This will keep the piston rings free and top end coated with oil. Reinstall the spark plugs and visually inspect your machine for any other things that would be detrimental to the condition of your GS750E.

#### Once A Month

Recharge the battery with the one amp battery charger until it is fully charged. If the battery is not kept fully charged, it may become permanently damaged and will have to be replaced.

## PROCEDURE FOR RETURNING TO SERVICE

1. Clean the entire motorcycle.

*NOTE: Use of a commercial degrease may stain the finish on the engine. Instead, use a mild detergent and water solution.*

2. Drain the oil that was in the engine during the storage period. Install a new oil filter and fill the engine with oil as outlined in your owner's manual.
3. Reinstall the battery. Make sure that the vent hose is connected and routed properly. Install the positive terminal before the negative terminal.
4. Lubricate all places as instructed in the lubrication table in the owner's manual.
5. Inflate the tires to the correct pressure.
6. Before starting the engine, remove the four spark plugs and slowly turn the engine over by putting it in 5th gear and turning the rear wheel. Listen for any abnormal noises and check for smooth movement. If you think a problem has occurred, con-

tact your local authorized Suzuki dealer for assistance. If there are no problems, reinstall the spark plugs and return the transmission in neutral.

7. Do the "Inspections Before Riding" as listed in the owner's manual.

Often times it's easier to let these sort of services be done by your dealer. Most dealers in the areas where motorcycle storage is common are set up to properly prepare motorcycles for storage. Whether you do it yourself, or have your dealer do it, we sincerely hope you follow our suggestions. This is the only way that your GS can serve you in the manner it was designed. If your dealer does the service for you, you should be among the first to be back on the road when winter becomes spring.

#### CAUTION:

Clean the brake disc with alcohol only. This will ensure positive braking.

## SPECIFICATIONS

### DIMENSION AND DRY MASS

|                            |                   |
|----------------------------|-------------------|
| Overall length . . . . .   | 2 240mm (88.2 in) |
| Overall width . . . . .    | 870mm (34.3 in)   |
| Overall height . . . . .   | 1 170mm (46.1 in) |
| Wheelbase . . . . .        | 1 520mm (59.8 in) |
| Ground clearance . . . . . | 160mm ( 6.3 in)   |
| Dry mass . . . . .         | 233kg (514 lbs)   |

### ENGINE

|                               |                                       |
|-------------------------------|---------------------------------------|
| Type . . . . .                | Four-strokecycle, air-cooled,<br>DOHC |
| Number of cylinders . . . . . | 4                                     |
| Bore . . . . .                | 67.0mm (2.638 in)                     |
| Stroke . . . . .              | 53.0mm (2.087 in)                     |
| Piston displacement . . . . . | 747 cm <sup>3</sup> (45.6 cu. in)     |
| Compression ratio . . . . .   | 9.4 : 1                               |
| Carburetor . . . . .          | MIKUNI BS32SS, four                   |
| Air cleaner . . . . .         | Paper element                         |
| Starter system . . . . .      | Electric                              |
| Lubrication system . . . . .  | Wet sump                              |

### TRANSMISSION

|                             |   |
|-----------------------------|---|
| Clutch . . . . .            | Wet multi-plate type                                  |
| Transmission . . . . .      | 5-speed constant mesh                                 |
| Gearshift pattern . . . . . | 1-down 4-up   |
| Primary reduction . . . . . | 2.162 (93/43)   |
| Final reduction . . . . .   | 2.733 (41/15)   |
| Gear ratios, Low . . . . .  | 2.571 (36/14)   |
| 2nd. . . . .                | 1.777 (32/18)   |
| 3rd. . . . .                | 1.380 (29/21)   |
| 4th. . . . .                | 1.125 (27/24)   |
| Top . . . . .               | 0.961 (25/26)   |
| Drive chain . . . . .       | DAIDO D.I.D. 630V or<br>TAKASAGO RK630SO,<br>96 links |

### CHASSIS

|                            |   |
|----------------------------|---|
| Front suspension . . . . . | Telescopic, pneumatic/coil<br>spring, oil dampened                      |
| Rear suspension . . . . .  | Swinging arm, oil dampened,<br>damper 4-way, spring 5-way<br>adjustable |



Steering angle . . . . . 40° (right & left)  
 Caster . . . . . 62° 00'  
 Trail . . . . . 103mm (4.06 in)  
 Turning radius . . . . . 2.8m (9.2 ft)  
 Front brake . . . . . Disc brake, double  
 Rear brake . . . . . Disc brake,  
 Front tire size . . . . . 3.25H19 4PR  
 Rear tire size . . . . . 4.00H18 4PR

Fuse . . . . . 10/10/10/10/15A  
 Headlight . . . . . 12V 60/55W  
 Tail/Brake light . . . . . 12V 8/23W (3/32 cp)  
 Turn signal light . . . . . 12V 23W (32 cp)  
 License plate light . . . . . 12V 8W (4 cp)  
 Speedometer light . . . . . 12V 3.4W  
 Tachometer light . . . . . 12V 3.4W  
 Neutral indicator light . . . . . 12V 3.4W  
 High beam indicator light . . . . . 12V 3.4W  
 Turn signal indicator light . . . . . 12V 3.4W  
 Oil P. indicator light . . . . . 12V 3.4W

**ELECTRICAL**

Ignition type . . . . . Transistorized  
 Ignition timing . . . . . 15° B.T.D.C. below  
 1,500 rpm and 35° B.T.D.C.  
 above 2,350 rpm  
 Spark plug . . . . . NGK D8EA or  
 NIPPON DENSO X24ES-U  
 Battery . . . . . 12V 14Ah (50.4 kC)/10 Hours  
 Generator . . . . . Three-phase A.C. generator

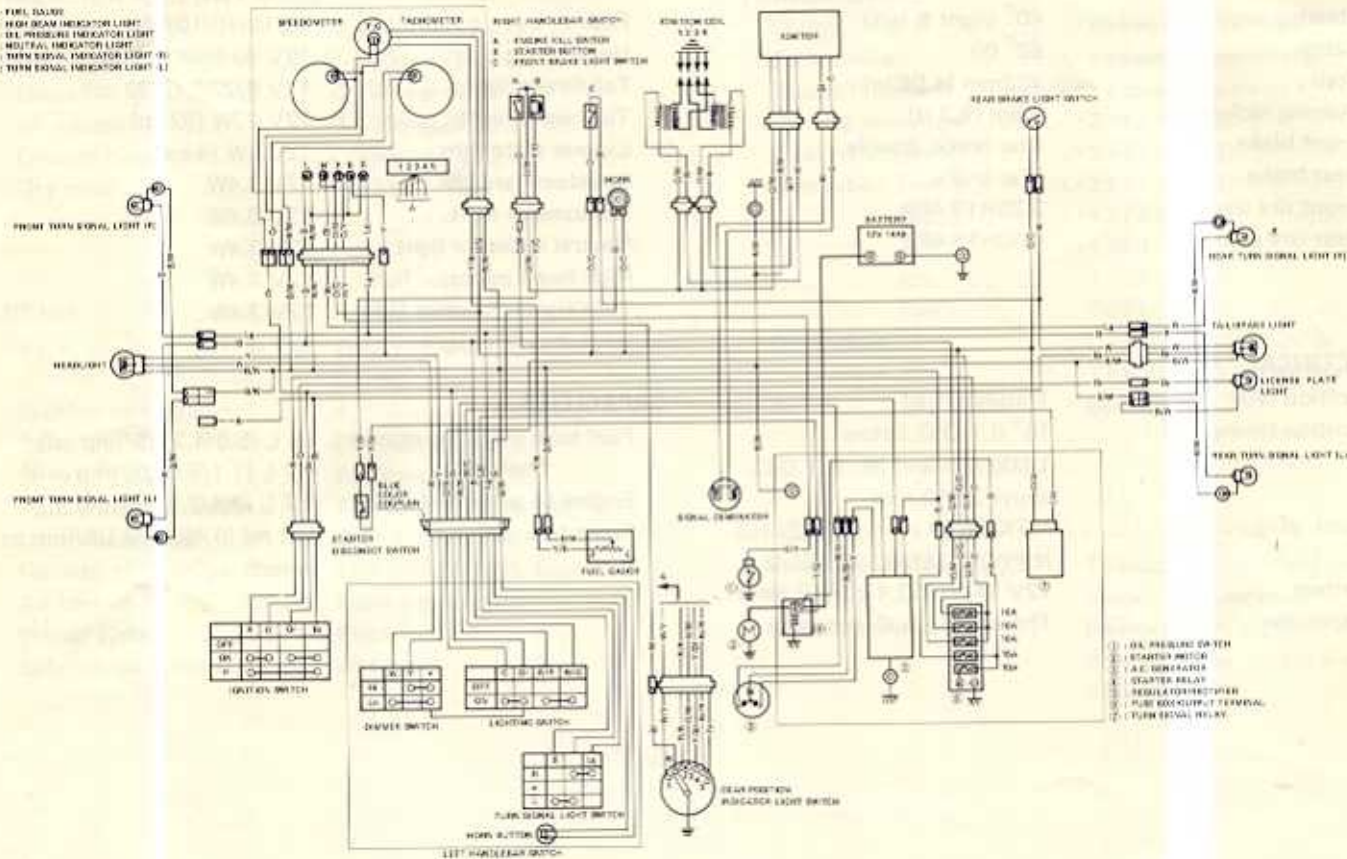
**CAPACITIES**

Fuel tank including reserve . . . . . 19 L (5.0/4.2 US/Imp gal)  
 reserve . . . . . 4.0 L (1.1/0.9 US/Imp gal)\*  
 Engine oil when changing . . . . . 3.2 L (3.4/2.8 US/Imp qt)  
 Front fork oil . . . . . 191 ml (6.45/6.73 US/Imp oz)  
 in each leg



# WIRING DIAGRAM

- F. FUEL GAUGE  
 G. HIGH BEAM INDICATOR LIGHT  
 H. OIL PRESSURE INDICATOR LIGHT  
 I. MULTIFUNCTION INDICATOR LIGHT  
 J. TURN SIGNAL INDICATOR LIGHT (L)  
 K. TURN SIGNAL INDICATOR LIGHT (R)



## WIRE COLOR

|               |                          |              |                               |
|---------------|--------------------------|--------------|-------------------------------|
| B . . . . .   | Black                    | BI/Y . . . . | Blue with Yellow tracer       |
| Bl . . . . .  | Blue                     | Bl/W . . . . | Blue with White tracer        |
| Br . . . . .  | Brown                    | Br/Y . . . . | Brown with Yellow tracer      |
| G . . . . .   | Green                    | G/W . . . .  | Green with White tracer       |
| Gr . . . . .  | Gray                     | G/Y . . . .  | Green with Yellow tracer      |
| Lbl . . . . . | Light blue               | Lg/B . . . . | Light green with Black tracer |
| Lg . . . . .  | Light green              | O/G . . . .  | Orange with Green tracer      |
| O . . . . .   | Orange                   | O/R . . . .  | Orange with Red tracer        |
| R . . . . .   | Red                      | O/W . . . .  | Orange with White tracer      |
| W . . . . .   | White                    | W/Bl . . . . | White with Blue tracer        |
| Y . . . . .   | Yellow                   | W/G . . . .  | White with Green tracer       |
| B/Bl . . . .  | Black with Blue tracer   | W/R . . . .  | White with Red tracer         |
| B/R . . . .   | Black with Red tracer    | Y/B . . . .  | Yellow with Blue tracer       |
| B/W . . . .   | Black with White tracer  | Y/G . . . .  | Yellow with Green tracer      |
| B/Y . . . .   | Black with Yellow tracer | Y/W . . . .  | Yellow with White tracer      |
| Bl/R . . . .  | Blue with Red tracer     |              |                               |

Prepared by

**SUZUKI MOTOR CO.,LTD.**

Service Department

Overseas Operations Division

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SUZUKI MOTOR CO., LTD. warrants to the ultimate purchaser and each subsequent purchaser that his vehicle (GS750E) is designed, built, and equipped so as to conform at the time of sale with all U.S. emission standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period of 5 years or 30,000 km (18,645 miles), whichever occurs first. Failures, other than those resulting from defects in material or workmanship, which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by the warranty.

**SUZUKI MOTOR CO.,LTD.**

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