SUZUKI

GN125F

SERVICE MANUAL

FOREWORD

This manual contains an introductory description on the SUZUKI GN125F and procedures for its inspection/service and overhaul of its main components. Other information considered as generally known is not included.

Read the GENERAL INFORMATION section to familiarize yourself with the motorcycle and its maintenance. Use this section as well as other sections to use as a guide for proper inspection and service.

This manual will help you know the motorcycle better so that you can assure your customers of fast and reliable service.

- * This manual has been prepared on the basis of the latest specifications at the time of publication. If modifications have been made since then, differences may exist between the content of this manual and the actual motorcycle.
- * Illustrations in this manual are used to show the basic principles of operation and work procedures. They may not represent the actual motorcycle exactly in detail.
- * This manual is written for persons who have enough knowledge, skills and tools, including special tools, for servicing SUZUKI motorcycles. If you do not have the proper knowledge and tools, ask your authorized SUZUKI motorcycle dealer to help you.

⚠ WARNING

Improper repair may result in injury to the mechanic and may render the motorcycle unsafe for the rider and passenger.

A CAUTION

Inexperienced mechanics or mechanics without proper tools, not to able to properly perform the services described in this manual.

DACHANGJIANG GROUP CO.,LTD.
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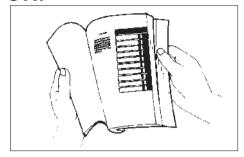
SERVICING INFORMATION

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HOW TO USE THIS MANUAL

TO LOCATE WHAT YOU ARE LOOKING FOR:

- 1. The text of this manual is divided into 7 sections.
- 2. The section titles are listed in the GROUP INDEX.
- 3. Holding the manual as shown as at the right will allow you to find the first page of the section easily.
- 4. The contents are listed on the first page of each section to help you find the item and page you need.



COMPONENT PARTS AND WORK TO BE DONE

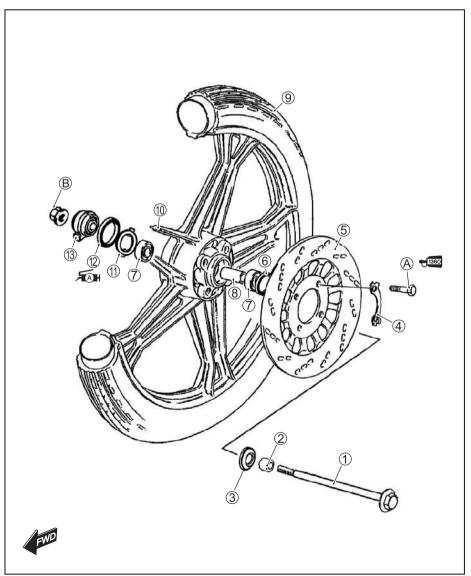
Under the name of each system or unit, is its exploded view. Work instruction and tightening torque, lubricating points and locking points, are provided.

Example: Front wheel

1	Front axle shaft
2	Spacer
3	Dustcover
4	Washer
(5)	Front brake disc
6	Oil seal
7	Roller bearing
8	Spacer
9	Front tire
10	Front wheel rim
11	Speedometer gear driver
12	Oil seal
13	Speedometer gear box
A	Brake disc bolt
B	Front axle nut



ITEM	N•m	Kgf•m
A	18-28	1.8-2.8
B	36-52	3.6-5.2



SYMBOL

The following symbols are instructions and necessary information for maintenance.

SYMBOL	DEFINITION	SYMBOL	DEFINITION
U	Torque control required. Data beside it indicates specified torque.	1360	Apply THREAD LOCK "1360" 99000-32130
	Apply oil. Use engine oil unless otherwise specified.	FORK	Apply or use the absorber oil
AH	Apply SUPER GREASE "A" 99000-25010	BF	Apply or use the brake fluid
₹®H	Apply MOLY PASTE 99000-25140	V	Measure voltage
1215	Apply sealant "1215" 99000-31110	Ω	Measure in resistance
1207B	Apply sealant "1207B" 99000-31140	(In))	Measure continuity test range
1342	Apply THREAD LOCK "1342" 99000-32050	TOOL	Use special tool
1303	Apply THREAD LOCK "1303" 99000-32030	DATA	The data of maintenance

WIRE COLOR

B Black	Gr Grown	R Red
BI Blue	Lbl Light blue	V Violet
Br Brown	Lg Light green	W White
Dg Deep green	O Orange	Y Yellow
G Green	P Pink	

B/BI Black with Blue tracer	O/BI Orange with Blue tracer
B/Br Black with Brown tracer	O/W Orange with White tracer
B/G Black with Green tracer	O/Y Orange with Yellow tracer
B/R Black with Red tracer	R/B Red with Black tracer
B/W Black with White tracer	R/Y Red with Yellow tracer
B/Y Black with Yellow tracer	W/B White with Black tracer
BI/W Blue with White tracer	W/R White with Red tracer
BI/Y Black with Yellow tracer	Y/G Yellow with Green tracer
Br/Y Brown with Yellow tracer	Y/R Yellow with Red tracer
G/Y Green with Yellow tracer	Y/W Yellow with White tracer
O/B Orange with Black tracer	

GENERAL INFORMATION

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WARNING/CAUTION/NOTE

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

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



Indicates a potential hazard that could result in motorcycle damage.

NOTE:

Indicates special information to make maintenance easier or instructions clearer.

Please note, however, that the warnings and the cautions contained in this manual cannot possibly cover all potential hazards relating to the servicing, or lack of servicing of the motorcycle. In addition to the WARNING and CAUTION stated, you must use good judgment and basic mechanical safety principles. If you are unsure about how to perform a particular service operation, ask a more experienced technician for advice.

GENERAL PRECAUTION

MARNING

- Proper service and repair procedures are important for the safety of the service technician and the safety and reliability of the motorcycle.
- When 2 or more persons work together, pay attention to safety of each other.
- When it is necessary to run the engine indoors, make sure that exhaust gas is forced outdoor.
- When working with the toxic or flammable materials, make sure that the area you work in is well-ventilated and that you follow all of the material manufacturer's instructions.
- Never use gasoline as a cleaning solvent.
- To avoid getting burned, do not touch the engine, engine oil or exhaust system during or for a while after engine operation.
- After servicing fuel, oil, exhaust or brake system, check all lines and fittings related to the system for leakage.

▲ CAUTION

- If parts replacement is necessary, replace the parts with SUZUKI GENUINE PARTS or their equivalent.
- When removing parts that are to be reused, keep them arranged in an orderly manner so that they may be reinstalled in the proper order and orientation.
- Be sure to use special tools when instructed.
- Make sure that all parts used in reassembly are clean, and also lubricated when specified.
- When use of a certain type of lubricant, bond, or sealant is specified, be sure to use the specified type.
- When performing service to electrical parts, if the service procedures not require used of battery power, disconnect the positive terminal.
- When removing the battery, disconnect the negative cable first and then the positive cable.
- When reconnecting the battery, connect the positive cable first and then the negative cable, and replace the terminal cover on the positive terminal.
- Tighten cylinder head and case bolts and nuts, beginning with larger diameter and ending with smaller diameter, from inside to outside diagonally, to the specified tightening torque.
- Whenever you remove oil seals, gaskets, packing, O-rings, locking washers, cotter pins, cir-clips, and certain other parts as specified, be sure to replace them with new ones. Also, before installing these new parts, be sure to remove any odd material from the mating surfaces.
- Never reuse a circlip. When installing a new circlip, take care not to expend the end gap larger than required to slip the circlip over the shaft. After installing a circlip, always ensure that it is completely seated in its groove and securely fitted.
- Do not use self-locking nuts a few times over.
- Use a torque wrench to tighten fasteners to the torque values when specified. Wipe off grease or oil if a thread is smeared with them.
- After reassembly, check parts for tightness and operation.

NOTE:

- * To protect environment, do not unlawfully dispose of used motor oil and other fluids, batteries and tires.
- To protect earth's natural resources, properly dispose of used motorcycles and parts.

SERIAL NUMBER LOCATIONS

The frame serial number or V.I.N. (Vehicle Identification Number) ① is stamped on the right side of the steering head pipe. The engine serial number ② is located on the left side of the crankcase. These numbers are required especially for registering the machine and ordering spare parts.





FUEL AND OIL RECOMMENDATIONS

FUEL

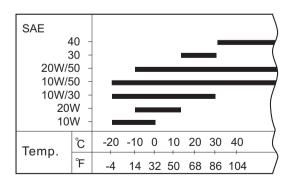
Use fuel with an octane number of 90-97 (Research method), preferably unleaded.

NOTE:

Unleaded fuel will extend spark plug life.

ENGINE OIL

Be sure that the motorcycle engine oil you use comes under API classification of SF or SG and its viscosity rating is SAE 10W-40. If SAE 10W-40 engine oil is not available, select the oil viscosity according to the following chart:



BRAKE FLUID

DOT4

ABSORBER OIL

SUZUKI ABSORBER OIL #32 OR EQUIVALENT

BREAK-IN PROCEDURE

During the manufacture only the best possible materials are used and all machined parts are finished to a very high standard, it is still necessary to allow the moving part to "BREAK-IN" before subjecting the engine to maximum stresses. The future performance and reliability of the engine depends on the care and restraint exercised during its early life. The general rules are as follows:

- The throttle must not be opened to the full during the new motorcycle's break-in period. Throttle opening should be limited to less than 3/4 of its maximum, while violent acceleration should be avoided.
- Do not maintain constant engine gear and speed for an extended time period during any portion of the break-in. Try to vary the throttle position. During the period of break-in, increase the throttle opening properly to enable break-in fully.
- When engine is running at constant low speed (low load), parts will wear rapidly leads to bad brake-in

SPECIFICATIONS

DIMENSIONS AND CURB WEIGHT

Overall length	2 000 mm
Overall width	815 mm
Overall height	1 100 mm
Wheelbase	
Ground clearance	175 mm
Curb weight	

ENGINE

Туре	Single cylinder, vertical, air-cooled, four stroke
Number of cylinders	
Bore	
Stroke	48.8 mm
Piston displacement	124 ml
Compression ratio	9.2 : 1
Carburetor	BS type
Air cleaner	Polyurethane foam element
Starter system	Electric
Lubrication system	Wet sump

TRANSMISSION

Primary reduction ratio	
Final reduction ratio	
Gear ratios, Low	3.000
2nd	
3rd	
4th	
Тор	
Drive chain	KMC 428H 116 links

ELECTRIC

Ignition type	CDI
Ignition timing	13° B.T.D.C below 2 000 r/min
Spark plug	NGK CR8E
Battery	12V 7Ah
Fuse	
Headlight	12V, 35W/35W
Tail light/brake light	12V, 5W/21W
Turn signal light	
Position light	12V, 5W

CHASSIS

Front absorber	Telescopic, coil spring, oil damped
Rear absorber	Swingarm type, 5 level adjustable coil spring oil damped
Steering angle	42°
Caster	
Trail	
Turning diameter	
Front brake	Disc brake
Rear brake	Drum brake
Front tire size	
Rear tire size	
Front absorber stroke	130 mm

CAPACITIES

Fuel tank	10 L
Reserve	
Engine oil, oil change	850 ml
with filter change	950 ml
Overhaul	1 300 ml
Front absorber oil (single)	168 ml

^{*}The specifications subject to change without notice.

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PERIODIC MAINTENANCE

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