GENERAL INFORMATION

1

CONTENTS

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.

⚠ WARNING

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

CAUTION

Indicates a potential hazard that could result in vehicle damage.

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

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

GENERAL PRECAUTIONS

⚠ WARNING

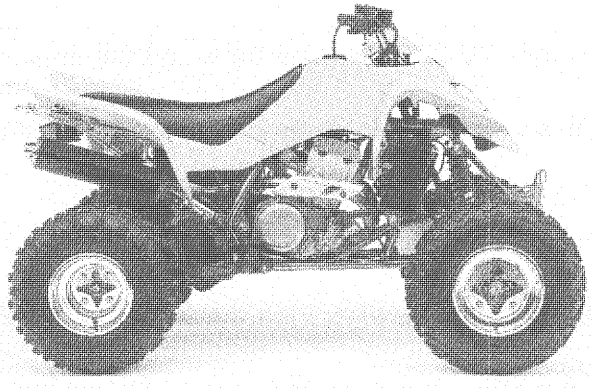
- **Proper service and repair procedures are important for the safety of the service mechanic and the safety and reliability of the vehicle.**
- **When two or more persons work together, pay attention to the safety of each other.**
- **When it is necessary to run the engine indoors, make sure that exhaust gas is forced outdoors.**
- **When working with toxic or flammable materials, make sure that the area you work in is well ventilated and that you follow all of the manufacturer's instructions.**
- **Never use gasoline as a cleaning solvent.**
- **To avoid getting burned, do not touch the engine, engine oil, radiator, and exhaust system until they have cooled.**
- **After servicing the fuel, oil, exhaust or brake systems, check all of the lines, and fittings related to the system for leaks.**

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.
* Be sure to use special tools when instructed.
* Make sure that all parts used in reassembly are clean. Lubricate them when specified.
* Use the specified lubricants, bonds, or sealants.
* When removing the battery, disconnect the ⊖ battery lead wire first, then the ⊕ battery lead wire.
* When reconnecting the battery, connect the ⊕ battery lead wire first, then the ⊖ battery lead wire. Finally, cover the ⊕ battery terminal with the terminal cover.
* When performing service to electrical parts, disconnect the ⊖ battery lead wire, unless the service procedure requires the battery power.
* When tightening cylinder head and crankcase nuts and bolts, tighten the larger sizes first. Always tighten the nuts and bolts from the inside working out, diagnoally and to the specified torque.
* Whenever you remove oil seals, gaskets, packing, O-rings, self-locking nuts, locking washers, cotter pins, circlips, snap rings and other specified parts, be sure to replace them with new ones. Also, before installing these new parts, be sure to remove any left over material from the mating surfaces.
* Never reuse a circlip and snap ring. When installing a new snap ring, take care not to expand the end gap larger than required to slip the snap ring over the shaft. After installing a snap ring, always ensure it is completely seated in its groove and securely fitted.
* Use a torque wrench to tighten fasteners to the specified torque. Wipe off grease and oil if a thread is smeared with them.
* After reassembling, check parts for tightness and proper operation.

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

SUZUKI LT-Z400K3 (2003-MODEL)



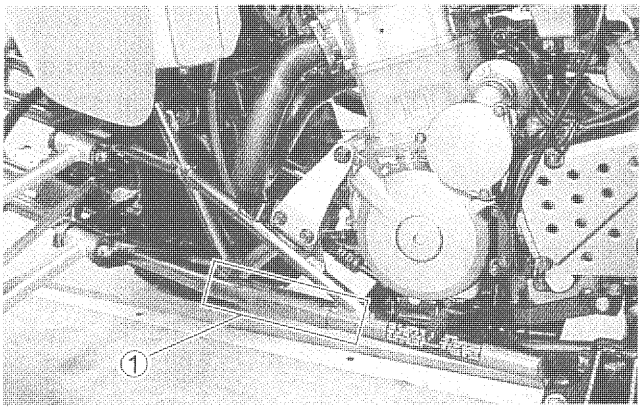
RIGHT SIDE

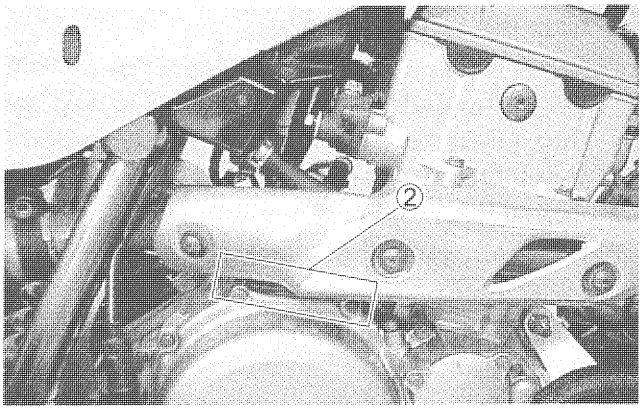
LEFT SIDE

* Difference between photographs and actual vehicles depends on the markets.

SERIAL NUMBER LOCATION

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





FUEL AND OIL RECOMMENDATION

FUEL (For CANADA and USA)

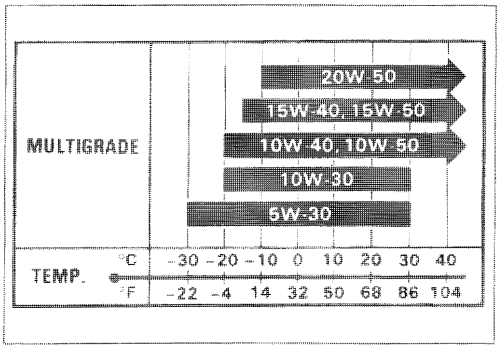
- Use only unleaded gasoline of at least 87 pump octane ($\frac{R+M}{2}$) method or 91 octane or higher rated by the Research Method.
- SUZUKI recommends that customers use alcohol-free unleaded gasoline whenever possible.
- Use of blended gasoline containing MTBE (Methyl Tertiary Butyl Ether) is permitted.
- Use of blended gasoline/alcohol fuel is permitted, provided that the fuel contains not more than 10% ethanol. Gasoline/alcohol fuel may contain up to 5% methanol if appropriate cosolvents and corrosion inhibitors are present in it.
- If the performance of the vehicle is unsatisfactory while using blended gasoline/alcohol fuel, you should switch to alcohol-free unleaded gasoline.
- Failure to follow these guidelines could possibly void applicable warranty coverage. Check with your fuel supplier to make sure that the fuel you intend to use meets the requirements listed above.

FUEL (For the other countries)

Use unleaded gasoline that is graded 91 octane or higher by the Research Method.

ENGINE OIL (For USA)

SUZUKI recommends the use of SUZUKI PERFORMANCE 4 MOTOR OIL or oils that meet API service classifications SF or SG and that have a viscosity rating of SAE 10W-40. If engine oil with a rating of SAE 10W-40 is not available, select an alternative according to the chart.



ENGINE OIL (For the other countries)

Use a premium quality 4-stroke motor oil to ensure longer service life of your vehicle. Use only oils that meet API service classifications SF or SG and that have a viscosity rating of SAE 10W-40. If engine oil with a rating of SAE 10W-40 is not available, select an alternative according to the chart.

BRAKE FLUID

Specification and classification: DOT 4

⚠ WARNING

This vehicle uses a glycol-based brake fluid. Do not use or mix different types of brake fluid such as silicone-based and petroleum-based fluids for refilling the system, otherwise serious damage will result to the brake system.
Never use any brake fluid taken from old, used, or unsealed containers.
Never reuse brake fluid left over from the last servicing or which has been stored for a long period of time.

ENGINE COOLANT

Since antifreeze also has corrosion- and rust-inhibiting properties, always use engine coolant containing antifreeze, even if the atmospheric temperature does not go below the freezing point.
Use an antifreeze designed for aluminum radiator. SUZUKI recommends the use of SUZUKI COOLANT antifreeze. if this is not available, use an equivalent antifreeze for aluminum radiators.
Mix only distilled water with the antifreeze. Other types of water can corrode and clog the aluminum radiator.

Mix distilled water and antifreeze at a ratio of 50:50 – 40:60.

For more information, refer to page 5-3 in the Cooling System section.

CAUTION

The percentage of antifreeze in the coolant should be between 50 to 60%. If the percentage of antifreeze is above or below this range the coolant's frost protection and rust-inhibiting capabilities will be reduced. Always keep the antifreeze content above 50% even if the atmospheric temperature does not go below the freezing point.

BREAK-IN PROCEDURES

During manufacturing 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 parts 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. Refer to the following break-in engine speed recommendations.

- Keep to these breake-in engine speed limits.

Break-in engine speeds

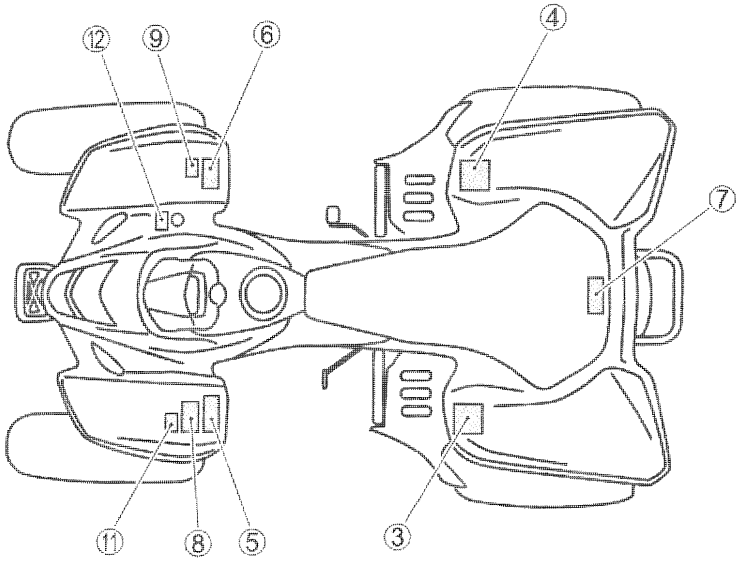
Initial 10 hours: Less than ½ throttle

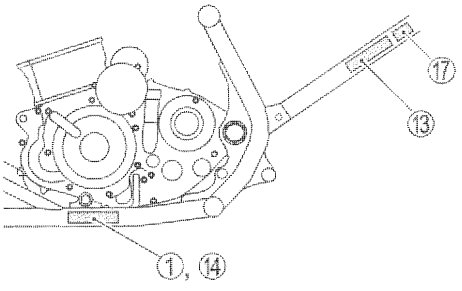
- After the engine has been operated for 10 hours the engine to full throttle operation, for short periods of time.

INFORMATION LABELS

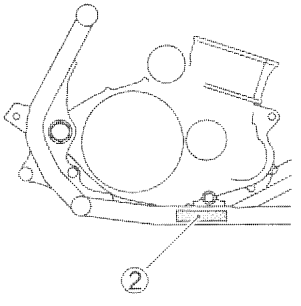
NO	LABEL or PLATE NAME	APPLIED SPECIFICATION		
		E-03	E-28	E-33
①	Certification plate Ⓔ	O	—	O
②	Information label Ⓔ	—	—	O
③	Tire air pressure label Ⓔ	O	O	O
④	Tire air pressure label and warning no-passenger label Ⓕ	—	O	—
⑤	General warning label Ⓔ	O	O	O
⑥	General warning label Ⓕ	—	O	—
⑦	Warning no-passenger label Ⓔ	O	O	O
⑧	Age, 16 label Ⓔ	O	O	O
⑨	Age, 16 label Ⓕ	—	O	—
⑩	Manual notice label Ⓔ	O	—	O
⑪	Gearshift label Ⓔ	O	O	O
⑫	Gearshift label Ⓕ	—	O	—
⑬	ICES Canada label Ⓔ,Ⓕ	—	O	—
⑭	Compliance label Ⓔ	—	O	—
⑮	Chain adjustment label Ⓔ	O	O	O
⑯	Chain adjustment label Ⓕ	—	O	—
⑰	EC approval mark	—	O	—

Ⓔ: English Ⓕ: French





Left side of frame



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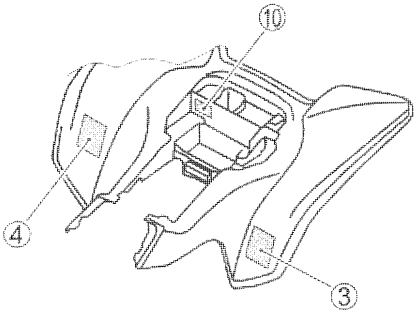

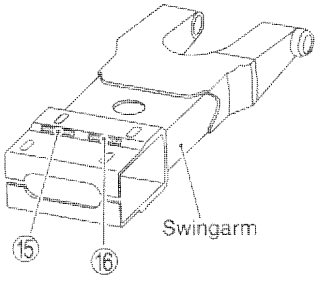

SPECIFICATIONS

DIMENSIONS AND DRY MASS

Overall length	1 830 mm (72.0 in)
Overall width	1 165 mm (45.9 in)
Overall height	1 160 mm (45.7 in)
Wheelbase	1 245 mm (49.0 in)
Front track	935 mm (36.8 in)
Rear track	910 mm (35.8 in)
Ground clearance	265 mm (10.4 in)
Seat height	810 mm (31.9 in)
Dry mass	169 kg (373 lbs)

ENGINE

Type	Four-stroke, liquid-cooled, DOHC
Number of cylinders	1
Bore	90.0 mm (3.543 in)
Stroke	62.6 mm (2.465 in)
Piston displacement	398 cm^3 (24.3 cu.in)
Compression ratio	11.3 : 1
Carburetor	MIKUNI BSR36 SS, single
Air cleaner	Polyurethane foam element
Starter system	Electric
Lubrication system	Dry sump
Idle speed	1 500 ± 100 r/min

DRIVE TRAIN

Clutch	Wet multi-plate type
Transmission	5-forward and 1-reverse
Gearshift pattern, forward	1 down 4 up, foot operated
reverse	Foot/hand operated
Primary reduction ratio	2.960 (74/25)
Gear ratios, Low	2.538 (33/13)
2nd	1.666 (30/18)
3rd	1.238 (26/21)
4th	1.000 (23/23)
Top	0.846 (22/26)
Reverse	2.153 (28/13)
Final reduction ratio	2.857 (40/14)
Drive chain	RK 520KZO 96 Links

CHASSIS

Front suspension	Independent, double wishbone, coil spring, oil damped
Rear suspension	Swingarm type, coil spring, oil damped
Front wheel travel	215 mm (8.5 in)
Rear wheel travel	230 mm (9.1 in)
Caster	8.5°
Trail	36 mm (1.42 in)
Toe-in	5 mm (0.20 in)
Camber	–0.9°
Steering angle	41°
Turning radius	3.1 m (10.2 ft)
Front brake	Disk brake, twin
Rear brake	Disk brake
Front tire size	AT22 x 7 R10☆☆ tubeless
Rear tire size	AT20 x 10 R9☆☆ tubeless

ELECTRICAL

Ignition type	Electronic ignition (CDI)
Ignition timing	10° B.T.D.C. at 1 500 rpm
Spark plug	NGK CR7E or DENSO U22ESR-N
Battery	12 V 28.8 kC (8 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	20 A
Headlight	12 V 30/30 W x 2
Brake light/Taillight	12 V 21/5 W
Neutral indicator light	12 V 3 W
Reverse indicator light	12 V 3 W
Coolant tempereture warning light	12 V 3 W

CAPACITIES

Fuel tank, including reserve	10.0 L (2.6/2.2 US/Imp gal)
reserve	2.7 L (0.7/0.6 US/Imp gal)
Engine oil, oil change	2 000 ml (2.1/1.8 US/Imp qt)
filter change	2 100 ml (2.2/1.8 US/Imp qt)
overhaul	2 200 ml (2.3/1.9 US/Imp qt)
Coolant	1.2 L (1.3/1.1 US/Imp qt)

COUNTRY AND AREA CODES

The following codes stand for the applicable countries and areas.

CODE	COUNTRY OR AREA
E-03	USA
E-28	Canada
E-33	California (USA)