

# GENERAL INFORMATION

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## COUNTRY AND AREA CODES

The following codes stand for the applicable country (-ies) and area (-s).

MODEL	CODE	COUNTRY or AREA	EFFECTIVE FRAME NO.
LT-A700X K5	E-17	Sweden	JSAAP41A 52100001-
	E-24	Australia	
	E-28	Canada	
	E-33	U.S.A.	

## 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 2 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 material 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, water, exhaust or brake systems, check all lines and fittings related to the system for leaks.

**CAUTION**

- \* If parts replacement is necessary, replace the parts with Suzuki Genuine Parts or their equivalents.
- \* 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. Lubricate them when specified.
- \* Use the specified lubricant, bond, or sealant.
- \* 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.
- \* When performing service to electrical parts, if the service procedures do not require use of battery power, disconnect the negative cable from the battery.
- \* When tightening the cylinder head or case bolts and nuts, tighten the larger sizes first. Always tighten the bolts and nuts diagonally from the inside toward outside and to the specified tightening torque.
- \* Whenever you remove oil seals, gaskets, packing, O-rings, locking washers, self-locking nuts, cotter pins, circlips 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 left over material from the mating surfaces.
- \* Never reuse a 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 that 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, engine coolant and other fluids: batteries, and tires.
- \* To protect Earth's natural resources, properly dispose of used vehicle and parts.



# SUZUKI LT-A700XK5 ('05-MODEL)



RIGHT SIDE

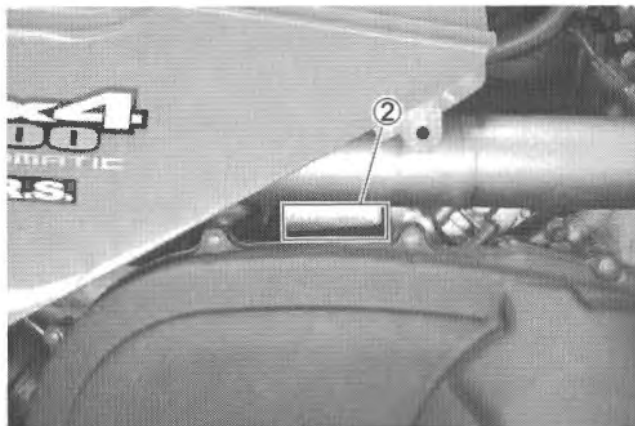
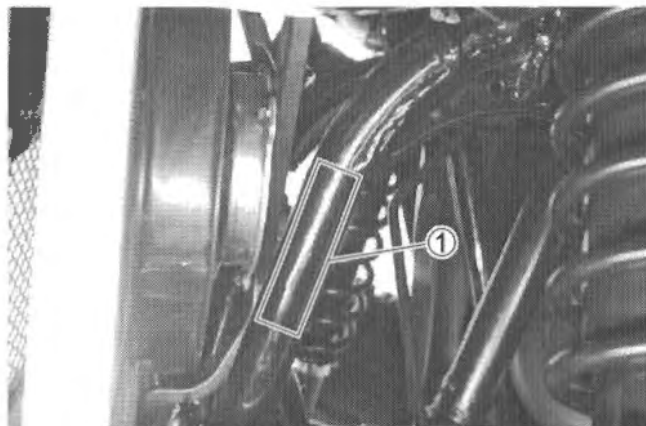


LEFT SIDE

- Difference between photograph and actual vehicle may exist depending 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 front 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, OIL AND ENGINE COOLANT RECOMMENDATION

### FUEL (FOR USA AND CANADA)

Use only unleaded gasoline of at least 87 pump octane (R/2 + M/2) or 91 octane or higher rated by the Research Method.

Gasoline containing MTBE (Methyl Tertiary Butyl Ether), less than 10 % ethanol, or less than 5 % methanol with appropriate cosolvents and corrosion inhibitor is permissible.

### FUEL (FOR OTHER COUNTRIES)

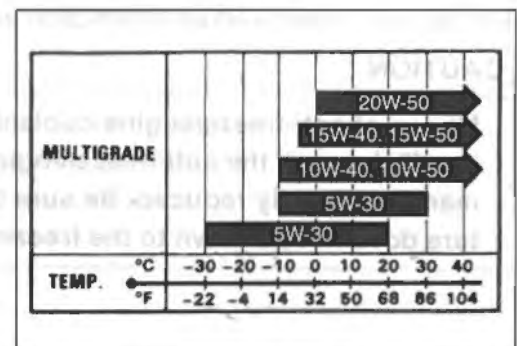
Gasoline used should be graded 91 octane (Research Method) or higher. An unleaded gasoline is recommended.

### ENGINE OIL (FOR USA)

SUZUKI recommends the use of SUZUKI PERFORMANCE 4 MOTOR OIL or an oil which is rated SF or SG under the API (American Petroleum Institute) service classification. The recommended viscosity is SAE 10W-40. If SAE 10W-40 oil is not available, select an alternative according to the following chart.

### ENGINE OIL (FOR OTHER COUNTRIES)

Use a premium quality 4-stroke motor oil to ensure longer service life of your vehicle. Use only oils which are rated SF or SG under the API service classification. The recommended viscosity is SAE 10W-40. If SAE 10W-40 motor oil is not available, select an alternative according to the right chart.



### FRONT DIFFERENTIAL GEAR OIL

Use hypoid gear oil that meets the API service classification GL-5 and is rated SAE #90. Use a hypoid gear oil with a rating of SAE #80 if the vehicle is operated where the ambient temperature is below 0 °C (32 °F).

### REAR DRIVE (FINAL) GEAR OIL

Use mobil fluid 424 or equivalent oil.

### BRAKE FLUID

Specification and classification: DOT 4

#### ⚠ WARNING

Since the brake system of this vehicle is filled with a glycol-based brake fluid by the manufacturer, do not use or mix different types of fluid such as silicone-based and petroleum-based fluid for refilling the system, otherwise serious damage will result.

Do not use any brake fluid taken from old or used or unsealed containers.

Never re-use brake fluid left over from a previous servicing, which has been stored for a long period.



## ENGINE COOLANT

Use an anti-freeze/engine coolant compatible with an aluminum radiator, mixed with distilled water only.

## WATER FOR MIXING

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

## ANTI-FREEZE/ENGINE COOLANT

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

Suzuki recommends the use of SUZUKI COOLANT anti-freeze/engine coolant. If this is not available, use an equivalent which is compatible with an aluminum radiator.

## LIQUID AMOUNT OF WATER/ENGINE COOLANT

**Solution capacity (total): Approx. 2 450 ml (2.59/2.16 US/Imp qt)**

For engine coolant mixture information, refer to cooling system section in page 7-2.

### CAUTION

**Mixing of anti-freeze/engine coolant should be limited to 60 %. Mixing beyond it would reduce its efficiency. If the anti-freeze/engine coolant mixing ratio is below 50 %, rust inhabiting performance is greatly reduced. Be sure to mix it above 50 % even though the atmospheric temperature does not go down to the freezing point.**

## BREAK-IN PROCEDURES

During manufacture only the best possible materials are used and all machined parts are finished to a very high standard but 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. The general rules are as follows.

- Keep to these break-in engine speed limits:

### Break-in engine speeds

**Initial 500 km (300 miles): Less than 1/2 throttle**

- Upon reaching an odometer reading of 500 km (300 miles) you can subject the vehicle to full throttle operation, for short periods of time.



# INFORMATION LABELS

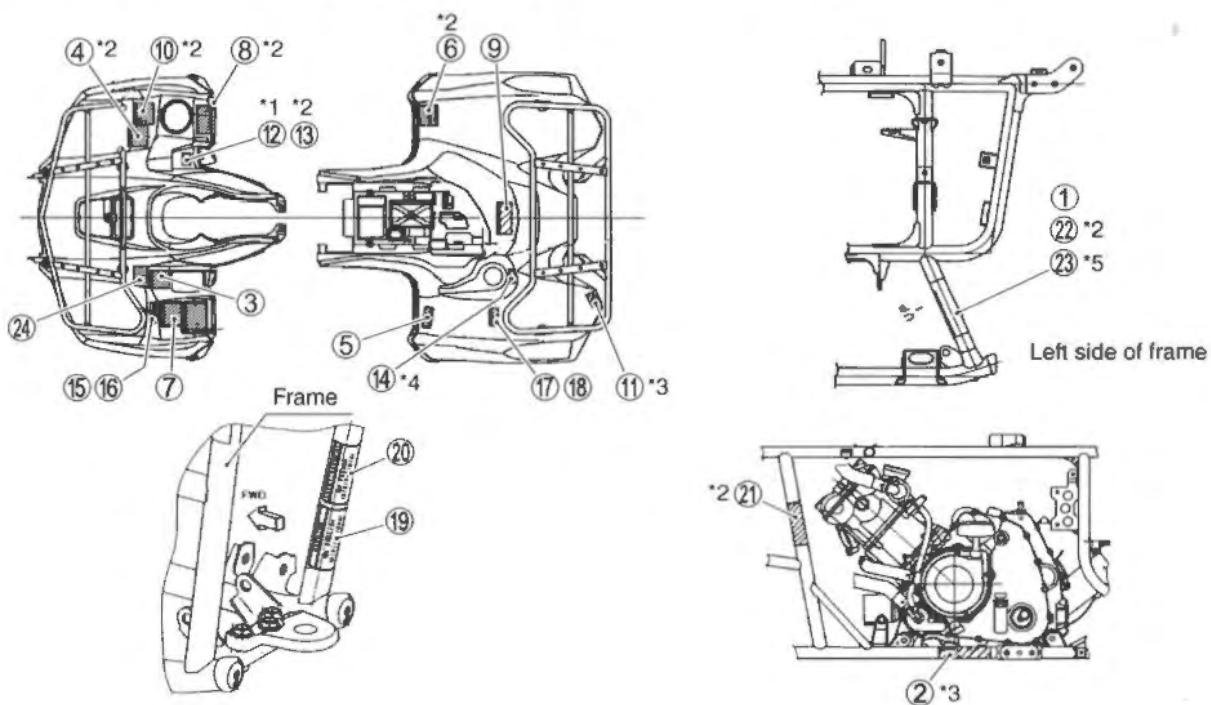
BREAK-IN PROCEDURES

① Certification plate	A (For E-24, 33)
② Information label	A (For E-33)
③ Gearshift label	A
④ Gearshift label	A (For E-28)
⑤ Tire air pressure label	A
⑥ Tire air pressure label and warning no-passenger label	A (For E-28)
⑦ General warning & AGE, 16 label	A
⑧ General warning label	A (For E-28)
⑨ Warning no-passenger label	A
⑩ AGE, 16 label	A (For E-28)
⑪ Manual notice label	A (For E-33)
⑫ Max AMP caution label	A (Except for E-28)
⑬ Max AMP caution label	A (For E-28)
⑭ Fuel caution label	A (For E-24)
⑮ Front carrier warning label	A (For E-24, 33)
⑯ Front carrier warning label	A (For E-17, 28)
⑰ Rear carrier warning label	A (For E-24, 33)
⑱ Rear carrier warning label	A (For E-17, 28)
⑲ Trailer to warning label	A
⑳ Trailer to warning label	A (For E-17 (CH), 28)
㉑ ICES Canada label	A (For E-28)
㉒ Compliance label	A (For E-28)
㉓ ID plate	A (For E-17)
㉔ Cooling fan label	A

A: Attached

\*1: Except for E-28 \*2: For E-28 \*3: For E-33 \*4: For E-24 \*5: For E-17

\*6: This label is attached on the seat. \*5: This label is attached on the left side of frame.





## SPECIFICATIONS

### DIMENSIONS AND DRY MASS

Overall length .....	2 115 mm (83.3 in) .....	E-28, 33
	2 135 mm (84.1 in) .....	E-17, 24
Overall width .....	1 210 mm (47.6 in) .....	E-28, 33
	1 250 mm (49.2 in) .....	E-17, 24
Overall height .....	1 220 mm (48.0 in)	
Wheelbase .....	1 280 mm (50.4 in)	
Ground clearance .....	260 mm (10.2 in)	
Seat height .....	860 mm (33.9 in)	
Dry mass .....	273 kg (601 lbs).....	E-28, 33
	275 kg (606 lbs).....	E-17, 24
Front track .....	930 mm (36.6 in)	
Rear track .....	940 mm (37.0 in)	

### ENGINE

Type .....	4 stroke, liquid-cooled, DOHC
Number of cylinders .....	1
Bore .....	102.0 mm (4.016 in)
Stroke .....	85.0 mm (3.346 in)
Displacement .....	695 cm <sup>3</sup> (42.4 cu.in)
Compression ratio .....	10.0:1
Fuel system .....	Fuel injection
Air cleaner .....	Nonwoven fabric element
Starter system .....	Electric and recoil starter
Lubrication system .....	Wet sump
Idle speed .....	1 300 ± 100 r/min

### DRIVE TRAIN

Clutch .....	Wet shoe, automatic, centrifugal type
Transmission .....	Automatic variable ratio (V-belt)
Transfer .....	2-speed forward with reverse
Gearshift pattern, Transmission .....	Automatic
Transfer .....	L-H-N-R (Hand operated)
Automatic transmission ratio .....	Variable change (2.763 – 0.78)
Secondary reduction ratio .....	2.158 (40/21 × 17/15)
Final reduction ratio (Front & Rear) .....	3.600 (36/10)
Transfer gear ratio, Low .....	2.563 (41/16)
High .....	1.240 (31/25)
Reverse .....	1.882 (32/17)
Drive system .....	Shaft drive

**CHASSIS**

Front suspension .....	Independent, double wishbone, coil spring, oil damped
Rear suspension .....	Independent, double wishbone, coil spring, oil damped
Front wheel travel .....	180 mm (7.1 in)
Rear wheel travel .....	200 mm (7.9 in)
Caster .....	1.6 °
Trail .....	3.4 mm (0.13 in)
Toe-out .....	10 mm (0.39 in)
Camber .....	0.64 °
Steering angle .....	46 ° (right & left)
Turning radius .....	3.1 m (10.2 ft)
Front brake .....	Dual hydraulic disc
Rear brake .....	Sealed oil-bathed multi-disc
Front tire size .....	AT25 × 8 – 12☆☆, tubeless
Rear tire size .....	AT25 × 10 – 12☆☆, tubeless

**ELECTRICAL**

Ignition type .....	Electronic ignition (CDI)
Ignition timing .....	7 ° B.T.D.C. at 1 300 r/min
Spark plug .....	NGK CR6E or DENSO U20ESH-N
Battery .....	12 V 64.8 kC (18 Ah)/10 HR
Generator .....	Three-phase A.C. generator
Main fuse .....	30 A
Fuse .....	10/10/10/10/15/15 A
Headlight .....	12 V 30/30 W × 2
Auxiliary light .....	12 V 40 W
Brake light/Taillight .....	12 V 21/5 W
Backup light .....	12 V 21 W ... E-17
Speedometer light .....	LED
Neutral indicator light .....	LED
High beam indicator light .....	LED ..... E-17
Coolant temperature/FI warning light .....	LED
Reverse indicator light .....	LED
Diff-lock indicator light .....	LED

**CAPACITIES**

Fuel tank .....	17.5 L (4.6/3.8 US/lmp gal)
Engine oil, oil change .....	2 300 ml (2.4/2.0 US/lmp qt)
with filter change .....	2 500 ml (2.6/2.2 US/lmp qt)
overhaul .....	3 000 ml (3.2/2.6 US/lmp qt)
Differential gear oil .....	500 ml (16.9/17.6 US/lmp oz)
Final gear oil .....	770 ml (26.0/27.1 US/lmp oz)
Coolant .....	2.45 L (2.6/2.2 US/lmp qt)

These specifications are subject to change without notice.