

VIEW OF SUZUKI LT500R ('87-MODEL)



LEFT SIDE



RIGHT SIDE

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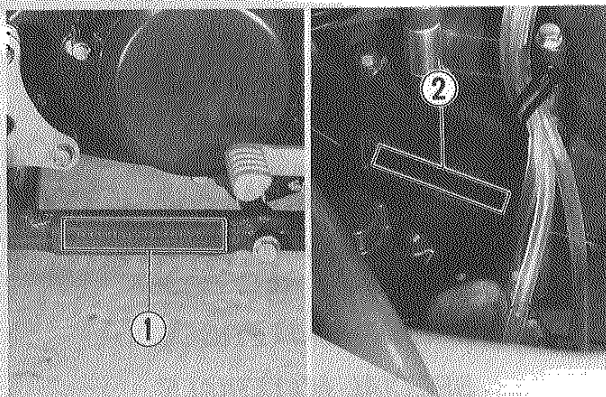
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VIN AND SERIAL NUMBER LOCATIONS

The VIN number ① is stamped on the left frame member. The engine serial number ② is located on the crankcase.

These numbers are required especially for registering the machine and ordering spare parts.



FUEL, OIL AND COOLING SOLUTION RECOMMENDATIONS

FUEL

For U.S. model

Use 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.

For other models

Use gasoline with an octane number of 85 or higher (Research Method), preferable unleaded or low-lead.

ENGINE OIL

For U.S. model

SUZUKI strongly recommends the use of SUZUKI CCI SUPER 2-CYCLE MOTOR LUBRICANT. If this oil is not available use an equivalent high quality 2 Cycle Racing Lubricant.

For other models

For the oil to be mixed with gasoline, any of the following brands or its equivalent will do.

- * SHELL SUPER M * CASTROL A747
- * CASTROL R30 * BELL-RAY MC-100
- * CASTROL TTS * MOTUL CENTURY 3002T (A545)
- * B.P. RACING

CAUTION:

Do not allow two different brands to get mixed in the fuel-oil mixture.

MIXTURE RATIO

For proper engine performance 20 parts gasoline to 1 part oil is the correct gasoline to oil mixture ratio. For proper engine performance, it is essential that the above fuel oil mixture should be maintained.

FUEL OIL MIXTURE RATIO OF 20 : 1

GASOLINE	OIL	GASOLINE	OIL
L	ml	(qt)	(oz)
0.5	25	0.5	0.8
1.0	50	1.0	1.6
1.5	75	1.5	2.4
2.0	100	2.0	3.2
2.5	125	2.5	4.0
3.0	150	3.0	4.8
3.5	175	3.5	5.6
4.0	200	4.0	6.4
4.5	225	4.5	7.2
5.0	250	5.0	8.0
5.5	275	5.5	8.8
6.0	300	6.0	9.6
6.5	325	6.5	10.4
7.0	350	7.0	11.2
7.5	375	7.5	12.0
8.0	400	8.0	12.8
8.5	425	8.5	13.6
9.0	450	9.0	14.4
9.5	475	9.5	15.2
10.0	500	10.0	16.6

TRANSMISSION OIL

Use a good quality SAE 20W/40 multi-grade motor oil.

BRAKE FLUID

Specification and classification:	Front	DOT 3 or DOT 4
	Rear	DOT 4
99000-23110	SUZUKI BRAKE FLUID	

WARNING:

- * *Since the brake system of this motorcycle 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, used, or unsealed containers.*
- * *Never re-use brake fluid left over from the previous servicing and stored for a long period.*

COOLING SOLUTION

Use an anti-freeze & Summer coolant compatible with 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 & SUMMER COOLANT

The coolant performs as corrosion and rust inhibitor as well as anti-freeze. Therefore, the 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 GOLDEN CRUISER 1 200 anti-freeze & summer coolant. If this is not available, use an equivalent which is compatible with aluminum radiator.

99000-24120 Not available in U.S.A.	SUZUKI GOLDEN CRUISER 1200
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REQUIRED AMOUNT OF WATER/COOLANT

Solution capacity (total): 1 500 ml
(1.59/1.32 US/Imp qt)
(reserve): 200 ml
(0.21/0.18 US/Imp qt)

For coolant mixture information, refer to cooling system section, page 4-1.

CAUTION:

Mixing of anti-freeze & summer coolant should be limited to 60%. Mixing beyond it would reduce its efficiency. If the anti-freeze & summer coolant mixing ratio is below 30%, rust inhibiting performance is greatly reduced. Every new unit is serviced with anti-leakage material, Bar's leaks.

99000-24240 Not available in U.S.A.	BAR'S LEAKS
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BREAKING-IN PROCEDURE

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:

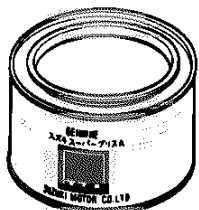



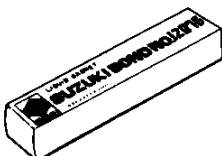



- Keep the these break-in engine speed limits:

Up to 10 hours	Less than 1/2 throttle
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- Do not maintain constant engine speed for an extended time period duiring any portion of the break-in. Try to vary the throttle position.

SPECIAL MATERIALS

The materials listed below are needed for maintenance work on the LT500R and should be kept on hand for ready use. These items supplement such standard materials as cleaning fluids, lubricants, emery cloth and the like. How to use them and where to use them are described in the text of this manual.

Material		Part	Page
For U.S.A.	For other models		
 <p>SUZUKI SUPER GREASE "A" 99000-25030</p>	 <p>SUZUKI SUPER GREASE "A" 99000-25010</p>	<ul style="list-style-type: none"> Steering shaft lower portion 2-18 Steering shaft dust seal 7-40 Steering shaft holder 2-18 Throttle lever 7-40 Brake pedal pivot shaft 2-18 Crankcase oil seal and bearing 2-18 Front wheel bearing and dust seal 3-33 Front suspension pivot bearing and dust seal 7- 4 Clutch/parking brake lever sliding parts 2-18 Shock absorber bearing and dust seal 7-33 Rear wheel bearing and dust seal 7-27 Rear suspension pivot bearing and dust seal 7-32 Rear wheel bearing and dust seal 7-51 Rear suspension pivot bearing and dust seal 2-18 Rear suspension pivot bearing and dust seal 7-58 Rear suspension pivot bearing and dust seal 2-18 Rear suspension pivot bearing and dust seal 7-52 	
 <p>SUZUKI SILICONE GREASE 99000-25100</p>	 <p>SUZUKI SILICONE GREASE 99000-25100</p>	<ul style="list-style-type: none"> Front brake caliper axle 7-14 Rear brake caliper axle 7-22 Rear caliper mounting bracket 7-52 	
 <p>SUZUKI BOND No. 1207B 99104-31140</p>	 <p>SUZUKI BOND No. 1215 99000-31110</p>	<ul style="list-style-type: none"> Mating surfaces of the crankcase 3-39 Water pump mechanical seal 4-11 Rear sprocket flange 7-60 Rear brake disc flange 7-60 	
 <p>SUZUKI BRAKE FLUID 99000-23110 (0.5L)</p>	 <p>SUZUKI BRAKE FLUID 99000-23110 (0.5L)</p>	<ul style="list-style-type: none"> Brake fluid 1- 2 2-11 	