

FOREWORD

We sincerely thank you for choosing this Suzuki motorcycle from the many fine models available.

With Suzuki motorcycle you are assured of the latest innovations in high performance and wing which have been the hallmark of Suzuki motor Co., Ltd. since 1936. Critical sering techniques and the latest in modern factory equipment and manufacturing know-we resulted in a product world renowned for excellence. Having won the famous Isle of T.T., as well as many world motocross championships, we assure you that the same high ards are attained on each production unit.

wer, even the best motorcycle cannot maintain peak performance unless it is serviced cly. So we advise that this Owner's Manual be read carefully and its instructions followed by. Treat your motorcycle properly and ride it correctly and you will enjoy the ad exhilaration associated with riding a world champion machine.

er placing your condifence in Suzuki and wish you many miles of happy riding.

SUZUKI MOTOR CO.,LTD.

IMPORTANT

This machine is designed for observed trials type riding only. Any other use can damage frame and/or engine.

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BREAKING-IN

In the process of manufacture 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 life of the motorcycle depends on how it is broken-in. During this period the engine must be given best care possible. For careful breaking-in observe the following instructions.

FUEL/OIL PRE-MIXTURE RATIO IS ALWAYS 20/1.

DO NOT RIDE THE MOTORCYCLE AT HIGH SPEED.

DO NOT OPERATE THE ENGINE AT HIGH R.P.M. IN LOW SPEED GEARS.

DO NOT RACE THE ENGINE.

KEEP TO THE SPECIFIED BREAKING IN THROTTLE OPENING LIMIT.

BREAKING-IN PERIOD

THROTTLE OPENING LIMIT

Initial	20 hours	Below ½ throttle opening
Up to	40 hours	Below ¾ throttle opening



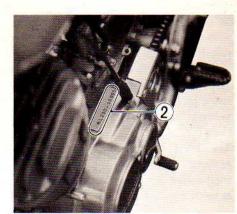
SERIAL NUMBER LOCATION

The frame serial number ① is stamped on the right of the steering head pipe.

The engine serial number ② is located * on the left crankcase.

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





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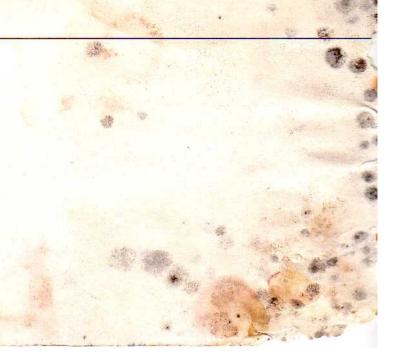
SUZUKI P.E. IGNITION SYSTEM

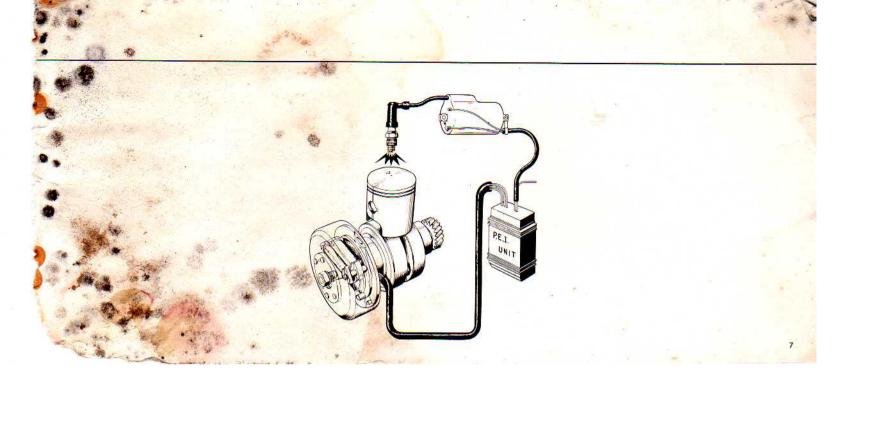
The TS250 employs an electronic ignition system (P.E.I.) which requires no mechanical contact breaker points.

In this system special circuit is used to charge a condenser with high tension voltage. This electric charge is electronically released to the ignition coil by a triggering circuit incorporating a built in automatic timing advance.

This totally electronic system produces an extreamely hot spark at the spark plug at precisely the most efficient moment for optimum combustion, regardless of engine or load.

The P.E.I. system provides maximum ignition efficiency without the maintenance of adjusting ignition timing or mechanical contact points usually associated with conventional ignition systems.





SPECIFICATIONS

DIMENSIONS AND WEIGHT

Overall length
Overall width
Overall height
Wheelbase
Ground cleaernce
Dry weight 199 lbs (90 kg)

PERFORMANCE

Maximum horse power	18.0 HP at 6,000 rpm
	(SAE, NET)
Maximum torque	16.6 ft-lb (2.30 kg-m)
	at 4,500 rpm

ENGINE

Type	Two stroke air
and facilities	cooled gasoline
A Comment of the Comm	engine
Valve system	Piston valve
Number of cylinders	1
Bore	70.0 mm (2.76 in)
Stroke	
Piston displacement	246 cc (15.0 cu-in)
Corrected compression ratio.	(A)
Carburetor	
Air cleaner	
	filter
Starter system	Primary kick
Lubrication system	
	premixture with 20:1

ANSMISSION SYSTEM

CHASSIS

Front suspension	Telescopic fork with hydraulic damper
Rear suspension	ISSUEMBLY, AN AND SEVERABLE SERVICE OF THE SECOND S
	5-way adjustable 60° (right and left)
Trail	3.0 in (76 mm)
Turning radius	
Front brake	Right hand operated, internal expanding
Rear brake	Commence of the Commence of th

ELECTRICAL EQUIPMENTS

Front tire size	2.75-21-4PR,
	Trial universal
Rear tire size	4.00-18-4PR,
	Trial universal

Ignition type	P.E.I. system
Ignition timing	14° at 1,000 rpm,
	21° at 6,000 rpm
	B.T.D.C.
Spark plug	NGK B7ES or
	Nippon Denso
	W22ES

APACITIES

Fuel tank	1.3/1.1 US/Imp ga
	(5.0 l) including
	1.5/1.2 US/Imp pt
	(0.7 l) reserve
Transmission oil	850 cc (1.80/1.51
	US/Imp pt)
Front fork oil	245 cc (8.3/8.6
	US/Imp oz)
N A F	(each leg)
1 CON 1 100 4 2	

* These specifications subject to change without notice.

* This motorcycle is designed and manufacutred for competition and off the road use only and is not equipped with such devices as lamps, speedometer, etc. for operation on public streets, road or highways.

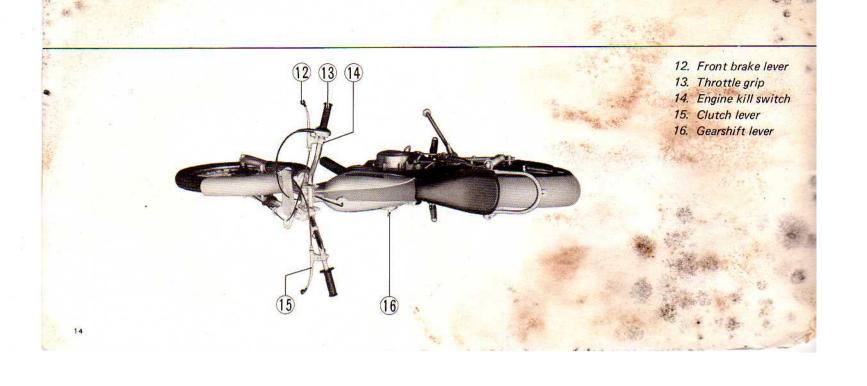
LOCATION OF PARTS

- 1. Fuel tank cap
- 2. Fuel cock
- 3. Air cleaner
- 4. Carburetor choke lever
- 5. Chain tensioner
- 6. Chain lube oil filler plug
- 7. Chain lube oil feed adjusting screw





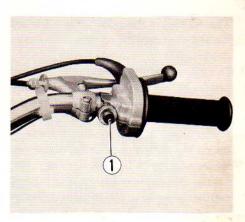
- 8. Rear shock absorber
- 9. Kick starter lever
- 10. Prop stand 11. Rear brake pedal



Take the time to familiarize yourself with the operating principles of the following motorcycle components.

ENGINE KILL BUTTON

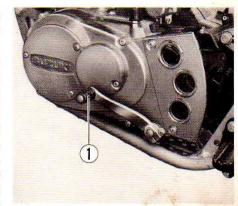
No ignition switch is provided. To start the engine, just depress the kick starter lever. To stop the engine, push the engine kill button ① as shown in figure.



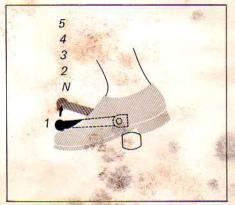
GEARSHIFT LEVER

The RL250 is equipped with a 5-speed transmission which operates as shown in the figure.

Neutral is located between low and 2nd gears. Low gear is located by fully depressing the lever from the neutral position. Shifting into succeedingly higher gears is accomplished by pulling up on the shift lever once for each gear. When shifting from low to 2nd gear, neutral is automatically missed. When neutral is wanted for stopping, depress or raise the lever a half of a stroke between low and 2nd gears.

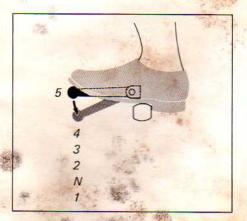


1) Gearshift lever



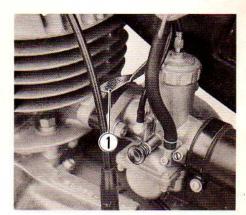
Gearshift sequence

CARBURETOR CHOKE LEVER



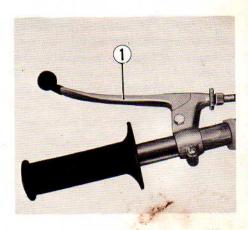
The carburetor choke system allows easy starting, even in cold weather, by supplying a rich fuel/air mixture to the engine.

When starting a cold engine, push the carburetor choke lever ①. When the engine is warm, using the choke lever is not necessary.



CLUTCH LEVER

The clutch lever ① is used to disengage the engine with the rear wheel when starting or shifting the transmission gears. Squeezing the lever disengages the clutch and releasing it connects the engine with the rear wheel.



THROTTLE GRIP

Engine speed is controlled by the throttle grip 1. If the throttle grip is twisted inward toward you, engine speed rises.

FRONT BRAKE LEVER

Front braking is controlled by pressure applied on the brake lever 2. When the brake lever is squeezed, braking force is applied to the front wheel.