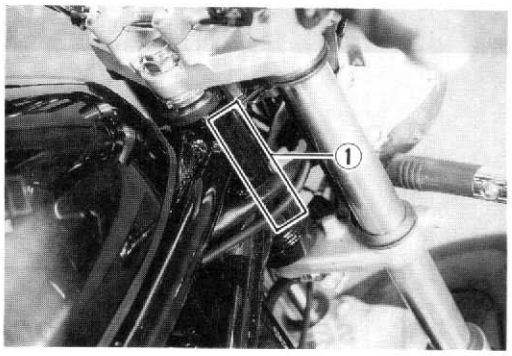
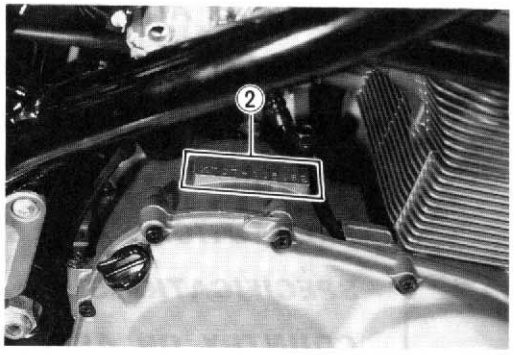
GENERAL INFORMATION

CONTENTS

SERIAL NUMBER LOCATION

The frame serial number or V.I.N. (Vehicle Identification Number) ① is stamped on the steering head 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 COOLANT RECOMMENDATION

FUEL (For U.S.A model)

1. Use only unleaded gasoline of at least 87 pump octane by the $\frac{R+M}{2}$ method or 91 octane or higher rated by the Research method.
2. Suzuki recommends that customers use alcohol-free, unleaded gasoline whenever possible.
3. Use of blended gasoline containing MTBE (Methyl Tertiary Butyl Ether) is permitted.
4. 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.
5. If the performance of the vehicle is unsatisfactory while using blended gasoline/alcohol fuel, you should switch to alcohol-free unleaded gasoline.
6. Failure to follow these guideline 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 Canadian model)

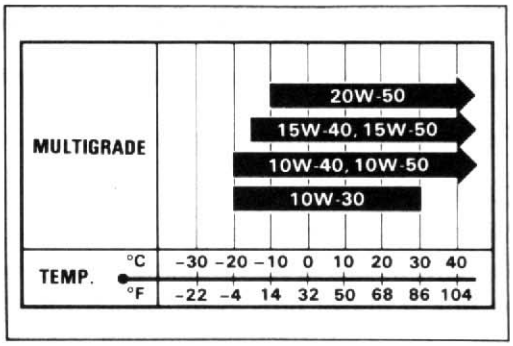
Use only unleaded gasoline of at least 87 pump octane by the $\frac{R+M}{2}$ method or 91 octane or higher rated by the Research method.

FUEL (For the other models)

Gasoline used should be graded 85 – 95 octane by the Research method or higher. An unleaded gasoline is recommended.

ENGINE OIL (For U.S.A. model)

Suzuki recommends the use of SUZUKI PERFORMANCE 4 MOTOR OIL or an oil which is rated SE or SF under the API (American Petroleum Institute) classification system. The viscosity rating is SAE 10W/40. If an SAE 10W/40 motor oil is not available, select an alternate according to the following chart.



ENGINE OIL (For the other models)

Make sure that the engine oil you use comes under API classification of SE or SF and that its viscosity rating is SAE 10W/40. If an SAE 10W/40 motor oil is not available, select an alternate according to the following chart.

BRAKE FLUID

Specification and classification: DOT4

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 or used or unsealed containers.**
* **Never reuse brake fluid left over from a previous servicing, which has been stored for a long period.**

FRONT FORK OIL

Use fork oil #10.

COOLANT

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

WATER FOR MIXING

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

ANTI-FREEZE/COOLANT

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

Suzuki recommends the use of SUZUKI GOLDEN CRUISER 1200NA anti-freeze/coolant. If this is not available, use an equivalent which is compatible with an aluminum radiator.

LIQUID AMOUNT OF WATER/COOLANT

Solution capacity (total): 1900 ml (2.0/1.7 US/Imp qt)

For coolant mixture information, refer to cooling system section, page 5-4.

CAUTION:
Mixing of anti-freeze/coolant should be limited to 60%. Mixing beyond it would reduce its efficiency. If the anti-freeze/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 exercise during its early life. The general rules are as follows.

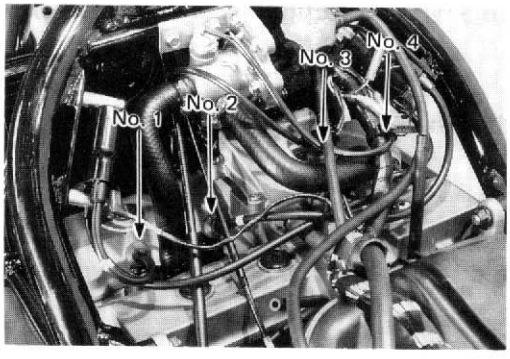
- Keep to these break-in engine speed limits:

Initial 800 km (500 miles) : Below 5000 r/min
Up to 1600 km (1000 miles) : Below 8000 r/min
Over 1600 km (1000 miles) : Below 14000 r/min

- Upon reaching an odometer reading of 1600 km (1000 miles) you can subject the motorcycle to full throttle operation. However, do not exceed 14000 r/min at any time.

CYLINDER IDENTIFICATION

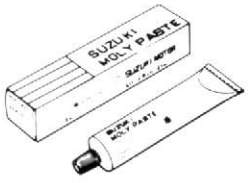
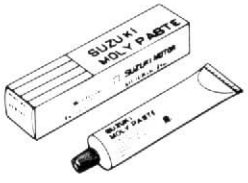
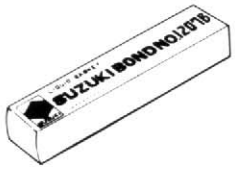
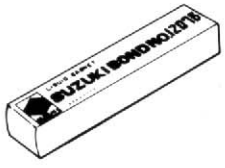
The four cylinders of this engine are identified as No. 1, No. 2, No. 3 and No. 4 cylinder, as counted from left to right (as viewed by the rider on the seat).



SPECIAL MATERIALS

The materials listed below are needed for maintenance work on the GSF400/BANDIT, and should be kept on hand for ready use. They 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. model	For other models		
 SUZUKI BRAKE FLUID DOT3 & DOT4 99000-23110	 SUZUKI BRAKE FLUID DOT3 & DOT4 99000-23110	• Brakes	2-13 7- 8 7-10 7-23 7-26
 SUZUKI GOLDEN CRUISER 1200NA 99000-99032-10X	 SUZUKI GOLDEN CRUISER 1200NA 99000-99032-10X	• Coolant	2-9 5-4
 SUZUKI SUPER GREASE "A" 99000-25030	 SUZUKI SUPER GREASE "A" 99000-25010	• Brake pedal pivot • Footrest pivot • Gearshift lever pivot • Side-stand pivot and spring hook • Center stand pivot and spring hook • Driveshaft oil seal and counter-shaft oil seal • Starter motor O-ring • Water pump O-ring • Starter motor oil seal • Wheel bearing • Speedometer gear box dust seal • Steering stem bearing and dust seal • Swingarm spacer, bearing and dust seal • Cushion lever/rod bearing • Water pump oil seal • Sprocket mounting drum bearing and oil seal	2-2 2-2 2-2 2-2, 8-21 2-2, 8-21 3-42 3-54 3-55 6-12 7-3, 30 7-4 7-18 7-45 7-45 5-13 7-31

MATERIAL		PART	PAGE
For U.S.A. model	For other models		
 SUZUKI SILICONE GREASE 99000-25100	 SUZUKI SILICONE GREASE 99000-25100	• Brake caliper axle	7-6
 SUZUKI MOLY PASTE 99000-25140	 SUZUKI MOLY PASTE 99000-25140	• Valve stem • Conrod big end bearing • Countershaft and driveshaft • Piston pin • Crankshaft journal bearing • Camshaft journal and cam face • Rocker arm and shaft • Starter motor armature end	3-26 3-35 3-42 3-56 3-46 3-58 3-20 6-12
 SUZUKI BOND NO. 1207B 99104-31140	 SUZUKI BOND NO. 1207B 99000-31140	• Oil pressure switch • Mating surface of upper and lower crankcases • Mating surface of clutch cover • Mating surface of starter clutch cover • Camshaft end cap • Breather cover • Water pump mechanical seal	3-49 3-47 3-53 3-61 3-61 3-62 5-13
 THREAD LOCK SUPER "1303" 99000-32030	 THREAD LOCK SUPER "1303" 99000-32030	• Cam sprocket bolt • Cam chain guide screw • 2nd drive gear • Breather cover	3-29 3-30 3-42 3-62
 THREAD LOCK "1342" 99000-32050	 THREAD LOCK "1342" 99000-32050	• Starter motor housing bolt • Front fork damper rod bolt • Countershaft bearing retainer screw • Oil gallery plug retainer screw • Gearshift cam guide screw and pawl lifter screw • Carburetor set plate screw	6-12 7-14 3-47 3-47 3-48 4-11

MATERIAL		PART	PAGE
For U.S.A. model	For other models		
 THREAD LOCK SUPER "1333B" 99000-32020	 THREAD LOCK SUPER "1322" 99000-32110	• Generator stator mounting screw and lead wire clamp screw • Signal generator coil mounting screw and lead wire guide screw	3-52 6-7
 THREAD LOCK SUPER "1360" 99000-32130	 THREAD LOCK SUPER "1360" 99000-32130	• Brake disc mounting bolt	7-4 7-32
 THREAD LOCK SUPER "1303" 99000-32030	 THREAD LOCK SUPER "1305" 99000-32100	• Generator rotor bolt • Starter clutch bolt	3-52 3-53
 SUZUKI FORK OIL # 10 99000-99044-10G	 SUZUKI FORK OIL # 10 99000-99044-10G	• Front fork	7-15

PRECAUTIONS AND GENERAL INSTRUCTIONS

Observe the following items without fail when servicing, disassembling and reassembling motorcycles.

☐ Do not run engine indoors with little or no ventilation.

☐ Be sure to replace packings, gaskets, circlips, O-rings and cotter pins with new ones.

CAUTION:

* **Never reuse a circlip. After a circlip has been removed from a shaft, it should be discarded and a new circlip must be installed.**
* **When installing a new circlip, care must be taken not to expand the end gap larger than required to slip the circlip over the shaft.**
* **After installing a circlip, always insure that it is completely seated in its groove and securely fitted.**

☐ Tighten cylinder head and case bolts and nuts, beginning with larger diameter and ending with smaller diameter, from inside to out-side diagonally, to the specified tightening torque.

☐ Use special tools where specified.

☐ Use genuine parts and recommended oils.

☐ When 2 or more persons work together, pay attention to the safety of each other.

☐ After the reassembly, check parts for tightness and operation.

☐ Treat gasoline, which is extremely flammable and highly explosive, with greatest care. Never use gasoline as cleaning solvent.

Warning, Caution and Note are included in this manual occasionally, describing the following contents.

WARNING . . . . . The personal safety of the rider or bystanders may be involved. Disregarding this information could result in personal injury.

CAUTION . . . . . These instructions point out special service procedures or precautions that must be followed to avoid damaging the machine.

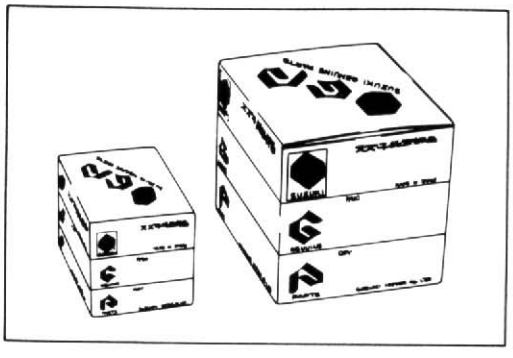
NOTE . . . . . This provides special information to make maintenance easier or important instructions clearer.

REPLACEMENT PARTS

When you replace any parts, use only genuine SUZUKI replacement parts, or their equivalent. Genuine SUZUKI parts are high quality parts which are designed and built specifically for SUZUKI vehicles.

CAUTION:

Use of replacement parts which are not equivalent in quality to genuine SUZUKI parts can lead to performance problems and damage.



ASBESTOS INFORMATION

Note the following when handling a supply part with this WARNING LABEL, or any part in the parts list which contains asbestos.

- Operate if possible out of doors in a well ventilated place.
- Preferably use hand tools or low speed tools equipped, if necessary, with an appropriate dust extractor facility. If high speed tools are used, they should always be so equipped.
- If possible, dampen before cutting or drilling.
- Dampen dust and place it in a properly closed receptacle and dispose of it safely.

Any domestic asbestos product to which the above does not apply, but which is likely to release fibres during use should be replaced by new one when worn.

1.	Breather cover gasket
2.	Clutch cover gasket
3.	Starter gear cover gasket
4.	Oil pan gasket
5.	Cam chain tension adjuster gasket
6.	Exhaust pipe gasket

NOTE:
Refer to the parts catalogue for details.

SPECIFICATIONS

DIMENSIONS AND DRY MASS

Overall length	2130 mm (83.9 in) . . . E22
	2090 mm (82.3 in) . . . Others
Overall width	760 mm (29.9 in) . . . E03, 28, 33
	730 mm (28.7 in) . . . Others
Overall height	1070 mm (42.1 in) . . . E03, 28, 33
	1060 mm (41.7 in) . . . Others
Wheelbase	1430 mm (56.3 in)
Ground clearance	155 mm (6.1 in)
Seat height	790 mm (31.1 in)
Dry mass	168 kg (370 lbs) . . . E22
	165 kg (364 lbs) . . . Others

ENGINE

Type	Four-stroke, water-cooled, DOHC, TSCC
Valve clearance	IN : 0.10 – 0.15 mm (0.004 – 0.006 in)
	EX: 0.15 – 0.20 mm (0.006 – 0.008 in)
Number of cylinders	4
Bore	56.0 mm (2.20 in)
Stroke	40.4 mm (1.59 in)
Piston displacement	398 cm^3 (24.28 cu. in)
Compression ratio	11.8 : 1
Carburetor	MIKUNI BST33SS, four
	MIKUNI BST32SS, four . . . U.S.A. model only
Air cleaner	Polyurethane foam element
Starter system	Electric starter motor
Lubrication system	Wet sump

TRANSMISSION

Clutch	Wet multi-plate type
Transmission	6-speed constant mesh
Gearshift pattern	1-down, 5-up
Primary reduction ratio	1.954 (86/44)
Gear ratios, Low	3.363 (37/11)
2nd	2.307 (30/13)
3rd	1.750 (28/16)
4th	1.437 (23/16)
5th	1.250 (30/24)
Top	1.150 (23/20)
Final reduction ratio	3.357 (47/14)
Drive chain	DID 525V_9 or RK 525SMOZ_2, 114 links

CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension	New-link suspension, coil spring, gas/oil damped, spring preload 7-way adjustable
Front suspension stroke	120 mm (4.7 in)
Rear wheel travel	120 mm (4.7 in)
Caster	64° 30′
Trail	100 mm (3.9 in)
Steering angle	30° (right & left)
Turning radius	3.2 m (10.5 ft)
Front brake	Disc brake
Rear brake	Disc brake
Front tire size	110/70-17 54H, tubeless
Rear tire size	150/70-17 69H, tubeless

ELECTRICAL

Ignition type	Fully transistorized
Ignition timing	15° B.T.D.C. below 1500 r/min
Spark plug	NGK CR8EK or NIPPON DENSO U24ETR
Battery	12V 28.8 kC (8Ah)/10HR
Generator	Three-phase A.C. generator
Fuse	25/15/10/10A
Headlight	12V 60/55W
Position light	12V 4W . . . except E03, 28, 33
Turn signal light	12V 21W
Tail/Brake light	12V 5/21W
License plate light	12V 5W
Speedometer light	12V 1.7W x 2 pcs
Tachometer light	12V 1.7W x 2 pcs
Neutral indicator light	12V 3W
High beam indicator light	12V 1.7W
Turn signal light indicator light	12V 3.4W
Oil pressure indicator light	12V 3.4W
Coolant temperature check light	12V 3.4W

CAPACITIES

Fuel tank, including reserve	14.5 L (3.8/3.2 US/Imp gal) . . . E33 only
	16.0 L (4.2/3.5 US/Imp gal) . . . Others
Reserve	3.5 L (0.9/0.8 US/Imp gal)
Engine oil, oil change	2300 ml (2.4/2.0 US/Imp qt)
with filter change	2800 ml (3.0/2.5 US/Imp qt)
overhaul	3200 ml (3.4/2.8 US/Imp qt)
Coolant (including reserve)	1900 ml (2.0/1.7 US/Imp qt)
Front fork oil (each leg)	494 ml (16.7/17.4 US/Imp oz) . . . E03, 28, 33
	495 ml (16.7/17.4 US/Imp oz) . . . Others

These specifications are subject to change without notice.

COUNTRY OR AREA

The series of symbols on the left stand for the countries and areas on the right.

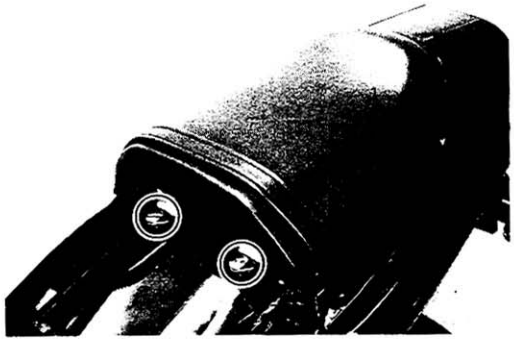
SYMBOL	COUNTRY or AREA
E-02	England
E-03	U.S.A. (except California)
E-04	France
E-21	Belgium
E-22	West Germany
E-24	Australia
E-25	Netherlands
E-28	Canada
E-33	California (U.S.A.)
E-34	Italy

EXTERIOR PARTS REMOVAL

SEATS

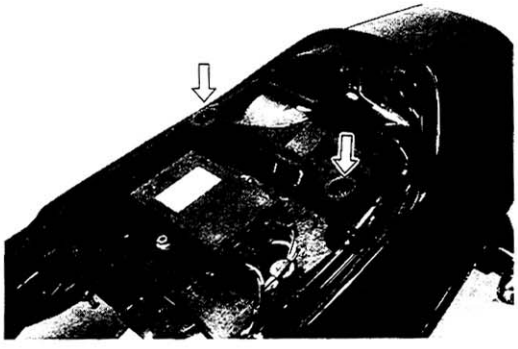
- Remove the front seat with the ignition key.

- Remove the rear seat by removing the bolts.

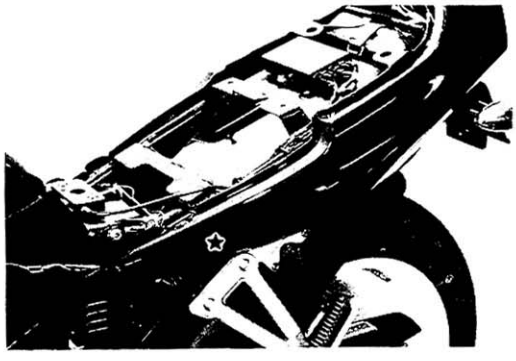


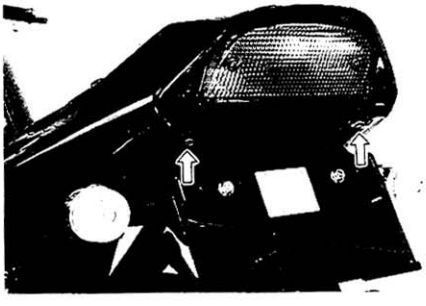
FRAME COVERS

- Remove the frame cover assembly by removing the bolts and extracting the hooked parts.



★: Hooked part





AIR CLEANER SIDE COVERS

- Remove the left and right air cleaner side covers by removing the bolts and extracting the hooked parts.

★: Hooked part