Features & Specifications 2019 KingQuad 500AXi Power Steering SE



Key Points

- New edgy and dynamic styling with Solid Special White bodywork
- Powerful, emissions-compliant four-stroke engine is easy on gas
- Quadmatic[™] transmission delivers strong, smooth acceleration with controlled engine braking
- Select 2WD, 4WD or 4WD differential-lock on the fly with a push of a button
- New frame and other changes boost towing capacity to 1322 pounds
- Higher-capacity Power Steering system reduces turning effort and damps vibration to the rider
- · New lightweight, cast-aluminum wheels

Overview

The KingQuad 500AXi Power Steering SE is not just a new ATV, it's a new KingQuad ATV. Suzuki, the inventor of the four-wheel ATV, took the world's best sports-utility quad and made it better and more capable than ever. The legacy of the iconic KingQuad has a new and exciting chapter and is ready for you to join the narrative. The new 2019 KingQuad is easier to ride on any terrain thanks to updates in several key areas:

Styling All-new styling & body-work, the Solid Special White SE is a higher trim level KingQuad with new, cast-aluminum wheels.

Chassis Increased towing capacity (up to 1322 lbs.) from a new, stronger frame, new gascharged shock absorbers, larger rear stabilizer bar with more compliant bushings, refined front and rear brakes, plus easier rider control via updated steering calibration and a higher-capacity electronic power steering system.

Engine Reliable, fuel-injected engine delivers controllable power and is matched to the Quadmatic[™] CVT transmission for strong, smooth acceleration and effective engine braking. Full emissions compliance (new California model is eligible for green-sticker registration).

Electrics New handlebar-mounted lights and fender-mounted twin headlights with a new, lowdraw LED taillight, plus a new LCD instrument panel that is easier to read with programmable service reminder, and a fender-mounted power outlet.

Accessories An expanded range of Genuine Suzuki Accessories lets you set up your KingQuad for STATIS! Any Mission.

Engine Features

- The powerful 493cc, SOHC, single-cylinder, liquid-cooled, four-stroke engine produces a wide powerband with strong top-end power.
- Its cylinder is canted forward for a low center of gravity resulting in reduced engine height and lower seat height. The engine also features a balancer shaft for smooth operation.
- The compact 4-valve cylinder head has large intake valves and straight intake ports for superb cylinder charging efficiency.
- A lightweight aluminum cylinder uses SCEM (Suzuki Composite Electrochemical Material) coating for excellent heat transfer and ring sealing resulting in superb combustion chamber efficiency.
- Advanced Suzuki Fuel Injection improves throttle response and fuel efficiency, while delivering power consistently across the full rev-range, and improves engine starting in all conditions.
- The new KingQuad easily achieves US emissions compliance, including California models that conform to the state's stringent evaporative emissions standard (eligible for green sticker registration).
- High capacity aluminum radiator with large diameter, thermostatically controlled cooling fan provides stable engine operating temperature.

Transmission Features

- The QuadMatic[™] CVT-type automatic transmission provides versatility and convenience with a fender-mounted gate-type shifter for high/low range selection. Its advanced engine-braking system minimizes free-wheeling with the throttle off and helps control the vehicle during steep descents.
- A compact torque-sensing limited-slip front differential offers potent traction plus light steering. A differential-lock system provides serious four-wheel-drive traction.
- Handlebar-mounted push-button controls permit easy selection between 2WD, 4WD and differentiallock 4WD. An override button on the left handlebar can be used to override the normal speed limiter when stuck in the mud.

Chassis Features

- To increase rider comfort, make the ATV easier to ride on any terrain and increase towing capacity the KingQuad's frame is new with thicker frame tubes and redesigned brackets in key areas.
- The base steering characteristics are now tuned to an "under-steer" condition for reduced effort and tighter turning in tight conditions. This permits higher, more comfortable handlebars to be used.
- The KingQuad's new, advanced electric power steering system has higher capacity than ever before for significantly reduced steering effort that also damps vibration and jolts to the rider.
- The bold, new bodywork features high-clearance fenders that offer great protection for the rider from flying debris. Refined panels simplify maintenance needs, such as oil level checks, fuel and air filter service.
- Independent double A-arm front suspension (6.7 inches of wheel travel) includes new large diameter, gas-charged shock absorbers with 5-way spring preload adjustment.
- Fully independent, A-arm/I-beam rear suspension with 7.7 inches of wheel travel includes new large diameter, gas-charged shock absorbers with 5-way spring preload adjustment.
- A new, larger diameter rear stabilizer bar with more compliant bushings helps control body movement while reducing shocks to the rider.
- The dual hydraulic front disc brakes have new brake pad material, fluid lines and lever to optimize barking performance.
- The sealed, multi-plate rear brake system features a new foot brake lever ratio for enhanced rider control. The rear brake's clutch-type design provides high durability, reduced unsprung weight and low-maintenance.
- High traction 25-inch CARLISLE tires are mounted on new, lightweight, cast-aluminum wheels.
- Suzuki's plush T-shaped seat delivers rider mobility during spirited or difficult terrain riding.
- Polyethylene skid plates provide protection with minimal resistance over rocks and rough terrain. Durable plastic guards protect the front and rear half shafts.

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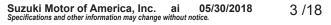
Utility/Convenience Features

- The new 35W handlebar-mounted headlight illuminates the trail in the direction you are steering the ATV. Dual 35W headlights (with high and low settings) are part of the new, distinctive KingQuad bodywork.
- A new, low-draw and bright LED tail light helps make the ATV visible in dark conditions while conserving power.
- A new receiver-type trailer hitch mount makes it easy to select the type of equipment you want to move with the KingQuad's higher towing capacity (up to 1322 pounds).
- Winch-ready mounts and wire conduit makes winch installation simple.
- A new, fully redesigned multi-function instrument panel has improved appearance, visibility and provides service reminders based on running time or mileage. The instrumentation includes LCD readouts for speedometer, odometer, twin tripmeter, hour meter, clock, fuel level, driving range and drive mode. LED indicators for high, low, neutral, reverse and 2WD/4WD and differential-locked 4WD. LED cautions for fuel injection and engine temperature.
- High-output, three-phase charging system feeds an 18-amp maintenance-free battery for abundant power for easy starting and accessory use. A sealed 12V accessory outlet is standard.
- The large 4.6 gallon (17.5 L) fuel tank is positioned for a low center-of-gravity. It includes a vacuumoperated petcock and a ratchet-style filler cap (which prevents over tightening so it can be easily unscrewed for refilling).
- A new, large 4.0 liter storage compartment is centrally added to the rear of the ATV adjacent to the existing 4.0 liter left-side compartment to increase cargo capacity. The 2.8 liter water resistant front storage compartment includes an easy access screw-on cap.
- The rugged steel-tube cargo racks have wrinkle paint finish for durability and scratch resistance.
- Full floorboards with integrated raised footpegs provide protection.

Additional Features

- A variety of Suzuki Genuine Accessories are available including winches, windshield, front and rear bumpers, a new quick-release snow plow, aluminum skid pans, rack extensions, utility box and more.
- 12-month limited warranty
- For more details, please visit <u>www.suzukicycles.com</u>.

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Specifications LT-A500XPZL9 E-03: USA, E-33: California

Dimensions and curb mass

| ltem | Specification | Remark |
|------------------|--------------------|-------------------------------|
| Overall length | 2150 mm (84.65 in) | |
| Overall width | 1215 mm (47.83 in) | — |
| Overall height | 1285 mm (50.59 in) | <u> </u> |
| Wheelbase | 1285 mm (50.59 in) | |
| Ground clearance | 260 mm (10.2 in) | |
| Front track | 940 mm (37.0 in) | _ |
| Rear track | 920 mm (36.2 in) | _ |
| Seat height | 920 mm (36.2 in) | _ |
| Curb mass | 322 kg (710 lbs) | E03 (For U.S.A.) |
| | 323 kg (712 lbs) | E33 (For California State) |

Engine

| Item | Specification | Remark |
|---------------------|---|--------|
| Туре | Four-stroke, liquid-cooled, OHC | |
| Number of cylinders | 1 | _ |
| Bore | 87.5 mm (3.44 in) | _ |
| Stroke | 82.0 mm (3.23 in) | _ |
| Displacement | 493 cm³ (30.085 cu.in) | _ |
| Compression ratio | 10.0 : 1 | |
| Fuel system | Fuel injection | _ |
| Air cleaner | Paper element and Polyurethane foam element | _ |
| Starter system | Electric | — |
| Lubrication system | Wet sump | — |
| Idle speed | 1500 ± 100 r/min | _ |

Drive train

| Item | | Specification | Remark |
|----------------------------------|--------------|---------------------------------------|--------|
| Clutch | | Wet shoe, automatic, centrifugal type | _ |
| Transmission | | CVT (V-belt) | _ |
| Transfer | | 2-speed forward with reverse | _ |
| Gearshift pattern | Transmission | Automatic | _ |
| Gearsnin pattern | Transfer | L-H-N-R (Hand operated) | _ |
| Automatic transmis | ssion ratio | Variable change (2.902 – 0.779) | _ |
| Secondary reduction ratio | | 2.603 (37/18 × 19/15) | _ |
| Final reduction rati Rear) | o (Front and | 3.600 (36/10) | _ |
| | Low | 2.562 (41/16) | _ |
| Transfer gear ratio High Reverse | | 1.240 (31/25) | _ |
| | | 2.000 (32/16) | |
| Drive system | | Shaft drive | _ |

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Specifications LT-A500XPZL9 E-03: USA, E-33: California

Chassis

| ltem | Specification | Remark |
|--------------------|---|--------|
| Front suspension | Independent, double wishbone, coil spring, oil damped | _ |
| Rear suspension | Independent, double wishbone, coil spring, oil damped | |
| Front wheel travel | 172 mm (6.77 in) | _ |
| Rear wheel travel | 194 mm (7.64 in) | _ |
| Caster | 1.7° | _ |
| Trail | 6.8 mm (0.27 in) | _ |
| Toe-out | 13 mm (0.51 in) | _ |
| Camber | -0.4° | _ |
| Steering angle | 44° (right and left) | _ |
| Turning radius | 3.1 m (10.2 ft) | _ |
| Front brake | Disc brake, twin | _ |
| Rear brake | Sealed oil-bathed multi-disc | _ |
| Front tire size | AT25 × 8-12 ☆ ☆ , tubeless | _ |
| Rear tire size | AT25 × 10-12 ☆ ☆ , tubeless | |

Electrical

| Item | Specification | Remark |
|--|--------------------------------------|--------|
| Ignition type | Electronic ignition (Transistorized) | _ |
| Spark plug | NGK LMAR6A-9 | _ |
| Battery | 12 V 64.8 kC (18 Ah)/10 HR | _ |
| Generator | Three-phase A.C. generator | _ |
| Fuse | 30/10/10/15/15/10 A | _ |
| EPS fuse | 40 A | _ |
| Headlight | 12 V 35/35 W (HS1) × 2 | _ |
| Auxiliary headlight | 12 V 35/35 W (HS1) | _ |
| Brake light/Taillight | LED | _ |
| Instrument panel light | LED | _ |
| Neutral indicator light | LED | _ |
| Hi beam indicator light | LED | _ |
| Engine coolant temperature indicator light/FI indicator light | LED | _ |
| Reverse indicator light | LED | |
| Diff-lock indicator light | LED | _ |
| EPS indicator light | LED | _ |

Capacities

| Item Fuel tank | | Specification | Remark |
|--|----------|------------------------------------|--------|
| | | 17.5 L (4.62 US gal, 3.85 Imp gal) | _ |
| Oil change | | 2500 ml (2.64 US qt, 2.20 lmp qt) | |
| Engine oil With filter change Overhaul | | 2700 ml (2.85 US qt, 2.38 lmp qt) | _ |
| | Overhaul | 3200 ml (3.38 US qt, 2.82 lmp qt) | |
| Differential gea | r oil | 460 ml (15.55 US oz, 16.19 lmp oz) | _ |
| Final gear oil | | 770 ml (26.04 US oz, 27.10 lmp oz) | _ |
| Engine coolant | | 2450 ml (2.59 US qt, 2.16 lmp qt) | _ |

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Service Data LT-A500XPZL9 E-03: USA, E-33: California

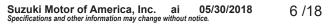
Emission Control Devices

| Item | Specification | Standard | Limit |
|---|-------------------------|-----------------|-------|
| EVAP system purge control solenoid valve power supply voltage (If equipped) | | Battery voltage | _ |
| EVAP system purge control solenoid valve resistance (If equipped) | 20 °C (68 °F) | 30 – 34 Ω | _ |
| PAIR control solenoid valve power supply voltage | | Battery voltage | |
| PAIR control solenoid valve resistance | 20 – 30 °C (68 – 86 °F) | 20 – 24 Ω | |

Engine Electrical Devices

| Item | Specification | Standard | Limit |
|-----------------------------------|----------------|-----------------|-------|
| IAP sensor power supply voltage | | 4.5 – 5.5 V | _ |
| IAP sensor output voltage | At 1 atm | 2.88 – 5.12 V | _ |
| IAT sensor power supply voltage | | 4.5 – 5.5 V | _ |
| | 10 °C (50 °F) | 3803 – 4069 Ω | _ |
| IAT sensor resistance | 20 °C (68 °F) | 2535 – 2756 Ω | _ |
| Γ | 40 °C (104 °F) | 1203 – 1348 Ω | — |
| ECT sensor power supply voltage | | 4.5 – 5.5 V | _ |
| ECT sensor resistance | 20 °C (68 °F) | 2320 – 2590 Ω | |
| | 80 °C (176 °F) | 310 – 326 Ω | |
| TP sensor power supply voltage | | 4.5 – 5.5 V | _ |
| TP sensor output voltage | Closed | 1.10 – 1.14 V | |
| TP sensor output voltage | Opened | 4.13 – 4.33 V | |
| ISC valve power supply voltage | | Battery voltage | _ |
| ISC valve resistance | 20 °C (68 °F) | 28.8 – 31.2 Ω | _ |
| CKP sensor peak voltage | When cranking | 5 V or more | _ |
| CKP sensor resistance | 20 °C (68 °F) | 160 – 260 Ω | — |
| TO sensor power supply voltage | | 4.5 – 5.5 V | _ |
| | Normal | 0.4 – 1.4 V | |
| TO sensor output voltage | Leaning 65° | 3.7 – 4.4 V | 1 - |
| TO sensor resistance | | 19000 – 20000 Ω | _ |
| ECM power supply voltage | | Battery voltage | |
| Speed sensor power supply voltage | | Battery voltage | _ |

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Engine Mechanical

| Throttle body I.D. No. | | | 04114 | |
|------------------------------|---|-------------------|--|------------------------------------|
| Throthe body I.D. No. | Without EVAP control system (E03) With EVAP control system (E33) | | 31H1 | — |
| | | | 31H3 | _ |
| Throttle body bore size | | | 37 mm (1.5 in) | |
| Throttle cable play | | | 3.0 – 5.0 mm (0.12 – 0.19 in) | |
| Idle speed | When engine | e warmed | 1500 ± 100 r/min | |
| Fast idle speed | | | 1600 – 2100 r/min | |
| Compression pressure | Autom decompro actuat | ession | 800 – 1200 kPa (8.2 – 12.2 kgf/cm², 116 – 174 psi) | 600 kPa (6.1 kgf/cm², 87.0 psi) |
| Cam height | Intak | | 33.45 – 33.50 mm (1.317 – 1.318 in) | 33.15 mm (1.306 in) |
| - | Exha | | 33.47 – 33.52 mm (1.318 – 1.319 in) | 33.17 mm (1.306 in) |
| Camshaft journal oil | Righ | | 0.028 – 0.059 mm (0.0011 – 0.0023 in) | |
| clearance | Center ar | nd Left | 0.032 – 0.066 mm (0.0013 – 0.0025 in) | 0.150 mm (0.0059 in) |
| Camshaft journal holder I.D. | Righ | nt | 17.512 – 17.525 mm (0.6895 – 0.6899 in) | _ |
| | Center ar | nd Left | 22.012 – 22.025 mm (0.8667 – 0.8671 in) | |
| Camshaft journal O.D. | Right | | 17.466 – 17.484 mm (0.6877 – 0.6883 in) | _ |
| | Center and Left | | 21.959 – 21.980 mm (0.8646 – 0.8653 in) | |
| Camshaft runout | | | _ | 0.10 mm (0.004 in) |
| Rocker arm I.D. | Intake | | 12.000 – 12.018 mm (0.4725 – 0.4731 in) | _ |
| | Exhaust | | 12.000 – 12.018 mm (0.4725 – 0.4731 in) | |
| Rocker arm shaft O.D. | Intake | | 11.973 – 11.984 mm (0.4714 – 0.4718 in) | |
| | Exhaust | | 11.973 – 11.984 mm (0.4714 – 0.4718 in) | _ |
| Valve clearance | When engine cold | Intake Exhaust | 0.05 – 0.10 mm (0.0020 – 0.0039 in) 0.17 – 0.22 mm (0.0067 – 0.0086 in) | _ |
| Valve diameter | Intak Exhai | | 30.6 mm (1.20 in) 27 mm (1.1 in) | |
| Valve stem runout | Intake & E | xhaust | <u> </u> | 0.05 mm (0.0019 in) |
| Valve head radial runout | Intake & E | xhaust | — | 0.03 mm (0.0011 in) |
| Valve head thickness | Intak | (e | — | 0.5 mm (0.019 in) |
| VAIVE HEAU LINCKHESS | Exha | ust | — | 0.5 mm (0.019 in) |
| Valve stem deflection | Intake & E | Exhaust | — | 0.35 mm (0.013 in) |
| Valve stem O.D. | Intak | | 4.975 – 4.990 mm (0.1959 – 0.1964 in) | |
| | Exha | | 4.955 – 4.970 mm (0.1951 – 0.1956 in) | — |
| Valve seat width | Intak | | 0.9 - 1.1 mm (0.036 - 0.043 in) | — |
| | Exhai | | 0.9 - 1.1 mm (0.036 - 0.043 in) | — |
| Valve guide I.D. | Intak Exha | | 5.000 – 5.012 mm (0.1969 – 0.1973 in) 5.000 – 5.012 mm (0.1969 – 0.1973 in) | |
| Valve guide to valve stem | Intak | | 0.010 - 0.037 mm (0.0004 - 0.0014 in) | |
| clearance | Exha | | 0.030 - 0.057 mm $(0.0012 - 0.0022$ in) | |
| | Intak | | <u> </u> | |
| Valve spring free length | | | | |

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| Item | Specific | ation | Standard | Limit |
|----------------------------------|------------------------------------|-------------|--|--------------------------|
| Valve spring pre-load | When compressed | Intake | 182 – 210 N (18.6 – 21.4 kgf, 40.9 – 47.2 lbf) | _ |
| | to 31.5 mm (1.24 in) | Exhaust | 182 – 210 N (18.6 – 21.4 kgf, 40.9 – 47.2 lbf) | _ |
| Cylinder head distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder head cover distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder bore | | | 87.500 – 87.515 mm (3.4449 – 3.4454 in) | No nicks or Scratches |
| Piston diameter | Measure a (0.59 in) fror end | n the skirt | 87.465 – 87.480 mm (3.4435 – 3.4440 in) | 87.380 mm (3.4402 in) |
| Piston to cylinder clearance | | | 0.030 – 0.040 mm (0.0012 – 0.0015 in) | 0.120 mm (0.0047 in) |
| Piston ring to groove | 1st | | _ | 0.180 mm (0.0070 in) |
| clearance | 2nc | k | _ | 0.150 mm (0.0059 in) |
| Distanting groove width | 1st | | 0.78 – 0.80 mm (0.0307 – 0.0314 in) 1.30 – 1.32 mm (0.0512 – 0.0519 in) | _ |
| Piston ring groove width | 2nd | | 1.01 – 1.03 mm (0.0398 – 0.0405 in) | — |
| | Oil | | 2.51 – 2.53 mm (0.0989 – 0.0996 in) | — |
| Piston ring thickness | 1st | : | 0.71 – 0.76 mm (0.028 – 0.029 in) 1.08 – 1.10 mm (0.0426 – 0.0433 in) | _ |
| | 2nc | ł | 0.97 – 0.99 mm (0.0382 – 0.0389 in) | — |
| Piston ring free end gap | 1st | | Approx. 6.2 mm (0.24 in) | 4.9 mm (0.20 in) |
| | 2nc | | Approx. 12.0 mm (0.472 in) | 9.6 mm (0.38 in) |
| Piston ring end gap | 1st | | 0.08 – 0.20 mm (0.0032 – 0.0078 in) | 0.50 mm (0.019 in) |
| | 2nc | k | 0.10 – 0.25 mm (0.0040 – 0.0098 in) | 0.50 mm (0.019 in) |
| Piston pin bore I.D. | | | 20.002 – 20.008 mm (0.7875 – 0.7877 in) | 20.030 mm (0.7885 in) |
| Piston pin O.D. | | | 19.992 – 20.000 mm (0.7871 – 0.7874 in) | 19.980 mm (0.7867 in) |
| Conrod small end I.D. | | | 20.006 – 20.014 mm (0.7877 – 0.7879 in) | 20.040 mm (0.7889 in) |
| Conrod deflection | | | — | 3.0 mm (0.11 in) |
| Conrod big end side clearance | | | 0.100 – 0.650 mm (0.0040 – 0.0255 in) | 1.0 mm (0.039 in) |
| Conrod big end width | | | 24.95 – 25.00 mm (0.9823 – 0.9842 in) | _ |
| Crank web to web width | | | 70.9 – 71.1 mm (2.792 – 2.799 in) | _ |
| Crankshaft runout | | | — | 0.080 mm (0.0031 in) |

Engine Lubrication System

| Item | Specification | Standard | Limit |
|--------------------------------|----------------------------------|--|-------|
| Oil pressure | At 60 °C (140 °F), 3000 r/min | 80 – 120 kPa (0.8 – 1.2 kgf/cm², 11.6 – 17.4 psi) | _ |
| Necessary amount of ongine | Oil change | 2500 ml (2.64 US qt, 2.20 Imp qt) | |
| Necessary amount of engine oil | Oil and filter change | 2700 ml (2.85 US qt, 2.38 lmp qt) | — |
| | Engine overhaul | 3200 ml (3.38 US qt, 2.82 Imp qt) | |

| Item | Specific | ation | Standard | Limit |
|----------------------------------|------------------------------------|-------------|--|--------------------------|
| Valve spring pre-load | When compressed | Intake | 182 – 210 N (18.6 – 21.4 kgf, 40.9 – 47.2 lbf) | _ |
| | to 31.5 mm (1.24 in) | Exhaust | 182 – 210 N (18.6 – 21.4 kgf, 40.9 – 47.2 lbf) | _ |
| Cylinder head distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder head cover distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder distortion | | | — | 0.05 mm (0.0019 in) |
| Cylinder bore | | | 87.500 – 87.515 mm (3.4449 – 3.4454 in) | No nicks or Scratches |
| Piston diameter | Measure a (0.59 in) fror end | n the skirt | 87.465 – 87.480 mm (3.4435 – 3.4440 in) | 87.380 mm (3.4402 in) |
| Piston to cylinder clearance | | | 0.030 – 0.040 mm (0.0012 – 0.0015 in) | 0.120 mm (0.0047 in) |
| Piston ring to groove | 1st | | _ | 0.180 mm (0.0070 in) |
| clearance | 2nc | k | _ | 0.150 mm (0.0059 in) |
| Distanting groove width | 1st | | 0.78 – 0.80 mm (0.0307 – 0.0314 in) 1.30 – 1.32 mm (0.0512 – 0.0519 in) | _ |
| Piston ring groove width | 2nd | | 1.01 – 1.03 mm (0.0398 – 0.0405 in) | — |
| | Oil | | 2.51 – 2.53 mm (0.0989 – 0.0996 in) | — |
| Piston ring thickness | 1st | : | 0.71 – 0.76 mm (0.028 – 0.029 in) 1.08 – 1.10 mm (0.0426 – 0.0433 in) | _ |
| | 2nc | ł | 0.97 – 0.99 mm (0.0382 – 0.0389 in) | — |
| Piston ring free end gap | 1st | | Approx. 6.2 mm (0.24 in) | 4.9 mm (0.20 in) |
| | 2nc | | Approx. 12.0 mm (0.472 in) | 9.6 mm (0.38 in) |
| Piston ring end gap | 1st | | 0.08 – 0.20 mm (0.0032 – 0.0078 in) | 0.50 mm (0.019 in) |
| | 2nc | k | 0.10 – 0.25 mm (0.0040 – 0.0098 in) | 0.50 mm (0.019 in) |
| Piston pin bore I.D. | | | 20.002 – 20.008 mm (0.7875 – 0.7877 in) | 20.030 mm (0.7885 in) |
| Piston pin O.D. | | | 19.992 – 20.000 mm (0.7871 – 0.7874 in) | 19.980 mm (0.7867 in) |
| Conrod small end I.D. | | | 20.006 – 20.014 mm (0.7877 – 0.7879 in) | 20.040 mm (0.7889 in) |
| Conrod deflection | | | — | 3.0 mm (0.11 in) |
| Conrod big end side clearance | | | 0.100 – 0.650 mm (0.0040 – 0.0255 in) | 1.0 mm (0.039 in) |
| Conrod big end width | | | 24.95 – 25.00 mm (0.9823 – 0.9842 in) | _ |
| Crank web to web width | | | 70.9 – 71.1 mm (2.792 – 2.799 in) | _ |
| Crankshaft runout | | | — | 0.080 mm (0.0031 in) |

Engine Lubrication System

| Item | Specification | Standard | Limit |
|----------------------------|-----------------------|--|-------|
| Oil pressure | | 80 – 120 kPa (0.8 – 1.2 kgf/cm ² , 11.6 – | _ |
| | r/min | 17.4 psi) | |
| Necessary amount of engine | Oil change | 2500 ml (2.64 US qt, 2.20 lmp qt) | |
| oil | Oil and filter change | 2700 ml (2.85 US qt, 2.38 lmp qt) | — |
| | Engine overhaul | 3200 ml (3.38 US qt, 2.82 lmp qt) | |

Front Suspension

| ltem | Specification | Standard | Limit |
|--------------------------------------|---------------|-------------------------------|-------|
| Toe-out | | 9 – 17 mm (0.36 – 0.66 in) | — |
| Front shock absorber spring adjuster | | 2nd position from softest end | _ |

Rear Suspension

| ltem | Specification | Standard | Limit |
|-------------------------------------|---------------|-------------------------------|-------|
| Rear shock absorber spring adjuster | | 2nd position from softest end | _ |

Wheels and Tires

| Item | Specification | | Standard | Limit |
|------------------------------|---------------|-------|---|------------------|
| Tire size | Front | | AT25 × 8-12 ☆ ☆ | |
| | Rear | | AT25 × 10-12 ☆ ☆ | |
| Tire type | Fror | nt | CARLISLE / AT489 | |
| | Rear | | CARLISLE / AT489 | 1 _ |
| Tire tread depth | Recommend | Front | <u> </u> | 4.0 mm (0.15 in) |
| | depth | Rear | _ | 4.0 mm (0.15 in) |
| Cold inflation tire pressure | Fror | nt | 35 kPa (0.35 kgf/cm ² , 5.1 psi) | |
| | Rea | r | 35 kPa (0.35 kgf/cm ² , 5.1 psi) | 1 _ |
| Wheel rim size | Fror | nt | 12 × 6.0AT | |
| | Rea | r | 12 × 7.5AT |] _ |

Differential

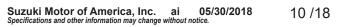
| ltem | Specification | Standard | Limit |
|--------------------------------------|---------------|-------------------------------------|-------|
| Front differential gear oil capacity | | 460 ml (15.55 US oz, 16.19 lmp oz) | _ |
| Front differential gear backlash | | 0.05 – 0.10 mm (0.0020 – 0.0039 in) | _ |
| Rear final gear oil capacity | | 770 ml (26.04 US oz, 27.10 lmp oz) | _ |
| Rear final gear backlash | | 0.08 – 0.15 mm (0.0032 – 0.0059 in) | _ |
| Diff-lock relay power supply voltage | | Battery voltage | _ |

Transfer

| ltem | Specification | Standard | Limit |
|-----------------------------|------------------|---------------------------------|-------------------|
| Gearshift fork to groove | Reverse | 0.1 – 0.3 mm (0.004 – 0.011 in) | 0.5 mm (0.019 in) |
| clearance | Sub transmission | 0.1 – 0.3 mm (0.004 – 0.011 in) | 0.5 mm (0.019 in) |
| Gearshift fork groove width | Reverse | 5.5 – 5.6 mm (0.217 – 0.220 in) | |
| | Sub transmission | 5.5 – 5.6 mm (0.217 – 0.220 in) | |
| Gearshift fork thickness | Reverse | 5.3 – 5.4 mm (0.209 – 0.212 in) | |
| | Sub transmission | 5.3 – 5.4 mm (0.209 – 0.212 in) | |
| Resistor resistance | | 980 – 1020 Ω | |

Propeller Shafts

| Item | Specification | Standard | Limit |
|----------------------------------|---------------|-------------------------------------|-------|
| Secondary bevel gear backlash | | 0.03 – 0.15 mm (0.0012 – 0.0059 in) | — |



Brake Control System and Diagnosis

| Item | Specification | Standard | Limit |
|---|---------------|-----------------------------------|-------|
| Rear brake pedal height | | 12.5 – 22.5 mm (0.493 – 0.885 in) | — |
| Master cylinder bore / piston diameter | Front | Approx. 12.7 mm (0.500 in) | _ |
| Rear brake lever play | | 6 – 8 mm (0.24 – 0.31 in) | — |
| Rear brake pedal free travel | | 20 – 30 mm (0.79 – 1.18 in) | — |

Front Brakes

| Item | Specification | Standard | Limit |
|---|---------------|---------------------------|--------------------|
| Front brake disc thickness | | 3.5 mm (0.14 in) | 3.0 mm (0.12 in) |
| Front brake disc runout | | _ | 0.30 mm (0.012 in) |
| Front brake caliper cylinder bore / piston diameter | | Approx. 34.0 mm (1.34 in) | _ |

CVT

| Item | Specification | Standard | Limit |
|-----------------------------------|---------------|-------------------------------------|-----------------------|
| Drive V-belt width | | 30.5 mm (1.20 in) | 29.5 mm (1.17 in) |
| Movable driven spring free length | | 200 mm (7.87 in) | 190 mm (7.48 in) |
| Clutch engagement | | 1700 – 2200 r/min | _ |
| Clutch lock-up | | 3700 – 4300 r/min | _ |
| Clutch housing I.D. | | 140.0 – 140.2 mm (5.512 – 5.519 in) | 140.5 mm (5.531 in) |
| Clutch shoe groove | | 1 mm (0.04 in) | No groove at any part |

Wiring Systems

| ltem | Specific | cation | Standard | Limit |
|-----------|-----------|--------|----------|-------|
| | Headlight | HI | 10 A | — |
| | | LO | 10 A | — |
| | Fue | el | 10 A | — |
| Fuse size | Ignit | ion | 15 A | — |
| | Fa | n | 15 A | — |
| | Power s | source | 10 A | — |
| | Ma | in | 30 A | — |
| | EP | S | 40 A | — |

Lighting Systems

| ltem | Specification | Standard | Limit |
|-----------------------|---------------|------------------------|-------|
| Headlight | | 12 V 35/35 W (HS1) × 2 | — |
| Auxiliary headlight | | 12 V 35/35 W (HS1) | — |
| Brake light/Taillight | | LED | — |

Combination Meter / Fuel Meter / Horn

| Item | Specification | Standard | Limit |
|--|---------------|----------|-------|
| Instrument panel light | | LED | — |
| Neutral indicator light | | LED | — |
| Hi beam indicator light | | LED | — |
| Engine coolant temperature indicator light/FI indicator light | | LED | _ |
| Reverse indicator light | | LED | _ |
| Diff-lock indicator light | | LED | — |
| EPS indicator light | | LED | |

Tightening Torque List

Emission Control Devices

| Fastening part | Tightening torque | | |
|--|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| PAIR reed valve cover bolt | 10 | 1.0 | 7.5 |
| PAIR control solenoid valve bracket bolt | 10 | 1.0 | 7.5 |
| EVAP system purge control solenoid valve nut | 7.0 | 0.71 | 5.20 |

Engine Electrical Devices

| Fastening part | Tightening torque | | |
|-------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| ECT sensor | 18 | 1.8 | 13.5 |
| ISC valve screw | 2.0 | 0.20 | 1.50 |
| Speed sensor bolt | 10 | 1.0 | 7.5 |

Engine Mechanical

| Fastening part | | Tightening torque | |
|--|------------------|--------------------|-------------|
| | N⋅m | kgf-m | lbf-ft |
| Air cleaner outlet tube clamp screw | 1.5 | 0.15 | 1.10 |
| Air cleaner box mounting bolt | 4.5 | 0.46 | 3.35 |
| Intake pipe clamp screw | 1.5 | 0.15 | 1.10 |
| Intake pipe bolt | 9.0 | 0.92 | 6.65 |
| Valve clearance adjusting screw lock-nut | 10 | 1.0 | 7.5 |
| Valve clearance inspection cap bolt | 10 | 1.0 | 7.5 |
| TDC check plug | 23 | 2.3 | 17.0 |
| Camshaft sprocket bolt | 15 | 1.5 | 11.0 |
| Cylinder head cover bolt | 10 | 1.0 | 7.5 |
| Cam chain tension adjuster bolt | 10 | 1.0 | 7.5 |
| Cam chain tension adjuster plug | 5.5 | 0.56 | 4.05 |
| Rocker arm shaft plug | 28 | 2.9 | 21.0 |
| Cylinder head bolt (M10) | 25 ightarrow 38 | 2.5 ightarrow 3.9 | 18.5 → 28.0 |
| Cylinder head bolt (M8) | 25 | 2.5 | 18.5 |
| Cylinder head nut | 25 | 2.5 | 18.5 |
| Water bypass union | 12 | 1.2 | 9.0 |
| Cam chain tensioner bolt | 13 | 1.3 | 9.5 |
| Crank balancer drive gear nut | 150 | 15.3 | 111.0 |
| Crank balancer driven gear bolt | 50 | 5.1 | 37.0 |
| Engine mounting nut | 60 | 6.1 | 44.5 |
| Oil gallery plug (M12) | 21 | 2.1 | 15.5 |
| Crankcase bolt (M8) | 26 | 2.7 | 19.5 |

Engine Lubrication System

| Fastening part | Tightening torque | | |
|---------------------------------|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Oil gallery plug (M8) | 18 | 1.8 | 13.5 |
| Engine oil drain plug | 21 | 2.1 | 15.5 |
| Oil filter | 20 | 2.0 | 15.0 |
| Crank balancer driven gear bolt | 50 | 5.1 | 37.0 |

Engine Cooling System

| Fastening part | Tightening torque | | | |
|---------------------------------------|-------------------|-------|--------|--|
| Fastening part | N⋅m | kgf-m | lbf-ft | |
| Engine coolant drain bolt | 13 | 1.3 | 9.5 | |
| Cooling fan assembly mounting bolt | 8.3 | 0.85 | 6.15 | |
| Radiator mounting bolt | 10 | 1.0 | 7.5 | |
| Radiator reservoir tank mounting bolt | 6.0 | 0.61 | 4.45 | |
| Water hose clamp screw | 1.5 | 0.15 | 1.10 | |
| Cooling fan thermo-switch | 17 | 1.7 | 12.5 | |
| Thermostat cover bolt | 23 | 2.3 | 17.0 | |
| Water pump mounting bolt | 10 | 1.0 | 7.5 | |
| Water pump case screw | 5.5 | 0.56 | 4.05 | |

Fuel System

| Fastening part | Tightening torque | | |
|----------------------------|-------------------|-------|--------|
| rastening part | N⋅m | kgf-m | lbf-ft |
| Fuel tank mounting bolt | 5.5 | 0.56 | 4.05 |
| Fuel tank cover No.1 screw | 4.5 | 0.46 | 3.35 |
| Fuel tank cover No.2 screw | 10 | 1.0 | 7.5 |
| Fuel delivery pipe screw | 3.5 | 0.36 | 2.60 |

Ignition System

| Fastening part | Tightening torque | | |
|-----------------|-------------------|-------|--------|
| l'astennig part | N⋅m | kgf-m | lbf-ft |
| Spark plug | 11 | 1.1 | 8.5 |

Starting System

| Fastening part | Tightening torque | | |
|-----------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Starter motor mounting bolt | 10 | 1.0 | 7.5 |
| Starter motor terminal nut | 6.0 | 0.61 | 4.45 |
| Brush terminal nut | 6.9 | 0.70 | 5.10 |
| Starter motor set bolt | 3.4 | 0.35 | 2.50 |
| Starter relay terminal bolt | 4.9 | 0.50 | 3.65 |
| Starter clutch bolt | 26 | 2.7 | 19.5 |

Charging System

| Eastoning part | Tightening torque | | |
|--------------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Generator stator bolt | 11 | 1.1 | 8.5 |
| CKP sensor bolt | 6.0 | 0.61 | 4.45 |
| Generator lead wire clamp bolt | 6.0 | 0.61 | 4.45 |
| Generator rotor nut | 140 | 14.3 | 103.5 |
| Starter cup nut | 38 | 3.9 | 28.0 |

Exhaust System

| Fastening part | | Tightening torque | | |
|------------------------|-----|-------------------|--------|--|
| Fastening part | N⋅m | kgf-m | lbf-ft | |
| Exhaust pipe nut | 25 | 2.5 | 18.5 | |
| Muffler connector bolt | 25 | 2.5 | 18.5 | |
| Muffler support bolt | 25 | 2.5 | 18.5 | |
| Muffler plate nut | 11 | 1.1 | 8.5 | |
| Muffler cover bolt | 10 | 1.0 | 7.5 | |

Front Suspension

| Fastening part | Tightening torque | | |
|--|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Tie-rod lock-nut | 29 | 3.0 | 21.5 |
| Front shock absorber upper mounting bolt | 55 | 5.6 | 40.5 |
| Front shock absorber lower mounting nut | 60 | 6.1 | 44.5 |
| Front suspension lower arm pivot nut | 65 | 6.6 | 48.0 |
| Front suspension upper arm pivot nut | 60 | 6.1 | 44.5 |

Rear Suspension

| Eastoning part | Tightening torque | | |
|----------------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Rear shock absorber mounting nut | 60 | 6.1 | 44.5 |
| Rear suspension arm pivot nut | 60 | 6.1 | 44.5 |
| Rear stabilizer joint nut | 60 | 6.1 | 44.5 |

Wheels and Tires

| Fastening part | Tightening torque | | |
|-----------------|-------------------|-------|--------|
| l astening part | N⋅m | kgf-m | lbf-ft |
| Wheel nut | 60 | 6.1 | 44.5 |

Drive Chain / Drive Train / Drive Shaft

| Fastening part | Tightening torque | | |
|--------------------------|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Steering knuckle end nut | 29 | 3.0 | 21.5 |
| Tie-rod end nut | 29 | 3.0 | 21.5 |
| Front wheel hub nut | 110 | 11.2 | 81.5 |
| Rear knuckle end nut | 60 | 6.1 | 44.5 |
| Rear wheel hub nut | 121 | 12.3 | 89.5 |

Differential

| Fastening part | Tightening torque | | |
|--|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Front differential gear oil level plug | 8.1 | 0.83 | 6.00 |
| Front differential gear oil filler plug | 35 | 3.6 | 26.0 |
| Front differential gear oil drain plug | 32 | 3.3 | 24.0 |
| Front differential gear cover bolt | 26 | 2.7 | 19.5 |
| 2WD/4WD/Diff-lock actuator mounting bolt | 12 | 1.2 | 9.0 |
| Rear final gear oil drain plug | 23 | 2.3 | 17.0 |
| Final gear case mounting bolt | 75 | 7.6 | 55.5 |
| Final gear case mounting nut | 75 | 7.6 | 55.5 |
| Rear final drive gear nut | 100 | 10.2 | 74.0 |
| Final drive bearing stopper | 100 | 10.2 | 74.0 |
| Rear final gear case bolt (M8) | 26 | 2.7 | 19.5 |
| Rear final gear case bolt (M10) | 55 | 5.6 | 40.5 |

Transfer

| Eastoning part | Tightening torque | | |
|----------------|-------------------|------|--------|
| Fastening part | N·m kgf-m l | | lbf-ft |
| GP switch bolt | 6.0 | 0.61 | 4.45 |

Propeller Shafts

| Fastening part | Tightening torque | | |
|---|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Secondary drive bevel gear nut | 100 | 10.2 | 74.0 |
| Rear drive output yoke nut | 100 | 10.2 | 74.0 |
| Secondary driven output gear nut | 100 | 10.2 | 74.0 |
| Front propeller shaft yoke boot clamp screw | 1.3 | 0.13 | 0.95 |
| Rear output joint boot clamp screw | 2.0 | 0.20 | 1.50 |

Brake Control System and Diagnosis

| Fastening part | Tightening torque | | |
|---|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Front brake caliper air bleeder valve | 6.0 | 0.61 | 4.45 |
| Front brake pipe flare nut | 16 | 1.6 | 12.0 |
| Front brake master cylinder holder bolt | 10 | 1.0 | 7.5 |
| Front brake hose union bolt | 23 | 2.3 | 17.0 |
| Front brake light switch screw | 1.2 | 0.12 | 0.90 |
| Front brake lever pivot bolt | 5.9 | 0.60 | 4.35 |
| Front brake lever pivot bolt lock-nut | 5.9 | 0.60 | 4.35 |
| Rear brake lever pivot bolt | 6.5 | 0.66 | 4.80 |
| Rear brake lever pivot bolt lock-nut | 6.5 | 0.66 | 4.80 |
| Rear brake pedal pivot nut | 11 | 1.1 | 8.5 |

Front Brakes

| Fastening part | Tightening torque | | |
|---------------------------------------|-------------------|-------|--------|
| i astening part | N⋅m | kgf-m | lbf-ft |
| Front brake caliper mounting bolt | 26 | 2.7 | 19.5 |
| Caliper hanger pin | 17 | 1.7 | 12.5 |
| Front brake hose union bolt | 23 | 2.3 | 17.0 |
| Caliper torque nut | 22 | 2.2 | 16.5 |
| Caliper bolt pin | 17 | 1.7 | 12.5 |
| Front brake caliper air bleeder valve | 6.0 | 0.61 | 4.45 |
| Front brake disc bolt | 23 | 2.3 | 17.0 |

Rear Brakes

| Eastoning part | | Tightening torque | | |
|-----------------------------------|-----|-------------------|--------|--|
| Fastening part | N⋅m | kgf-m | lbf-ft | |
| Rear brake case bolt | 26 | 2.7 | 19.5 | |
| Rear propeller shaft coupling nut | 100 | 10.2 | 74.0 | |
| Rear brake cam lever nut | 11 | 1.1 | 8.5 | |

CVT

| Fastening part | | Tightening torque | | |
|------------------------------------|-----|-------------------|--------|--|
| | N⋅m | kgf-m | lbf-ft | |
| V-belt outer cover bolt | 8.0 | 0.82 | 5.90 | |
| Drive face bolt | 120 | 12.2 | 88.5 | |
| Driven face bolt | 120 | 12.2 | 88.5 | |
| Driven pulley spring nut | 110 | 11.2 | 81.5 | |
| Clutch shoe nut | 165 | 16.8 | 122.0 | |
| V-belt inner cover bolt | 9.0 | 0.92 | 6.65 | |
| Transmission lever gate cover bolt | 10 | 1.0 | 7.5 | |

Steering / Handlebar

| Fastening part | Tightening torque | | |
|------------------------------|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| Handlebar clamp bolt | 26 | 2.7 | 19.5 |
| Rear brake lever holder bolt | 10 | 1.0 | 7.5 |
| Steering shaft lower nut | 162 | 16.5 | 119.5 |
| Steering shaft holder bolt | 23 | 2.3 | 17.0 |
| Handlebar holder nut | 60 | 6.1 | 44.5 |
| Tie-rod end nut | 29 | 3.0 | 21.5 |

Power Assisted Steering System

| Fastening part | Tightening torque | | |
|---------------------------------------|-------------------|-------|--------|
| | N⋅m | kgf-m | lbf-ft |
| EPS control unit mounting nut | 12 | 1.2 | 9.0 |
| EPS body assembly upper mounting bolt | 26 | 2.7 | 19.5 |
| EPS body assembly lower mounting nut | 28 | 2.9 | 21.0 |
| Steering shaft bolt | 50 | 5.1 | 37.0 |
| Steering shaft upper nut | 120 | 12.2 | 88.5 |
| Handlebar holder nut | 60 | 6.1 | 44.5 |

Lighting Systems

| Fastening part | Tightening torque | | |
|-----------------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Auxiliary headlight mounting bolt | 1.8 | 0.18 | 1.35 |
| Rear combination light nut | 5.5 | 0.56 | 4.05 |

Combination Meter / Fuel Meter / Horn

| Eastoning part | Tightening torque | | |
|---------------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Combination meter mounting bolt | 4.5 | 0.46 | 3.35 |

Exterior Parts

| Eastoning part | Tightening torque | | |
|--------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Ring nut | 2.8 | 0.29 | 2.10 |
| Rear cover bracket screw | 2.5 | 0.25 | 1.85 |

Body Structure

| Fastening part | Tightening torque | | |
|------------------------------|-------------------|-------|--------|
| Fastening part | N⋅m | kgf-m | lbf-ft |
| Footrest mounting bolt (M10) | 55 | 5.6 | 40.5 |
| Footrest mounting bolt (M8) | 26 | 2.7 | 19.5 |
| Trailer towing plate bolt | 60 | 6.1 | 44.5 |

Special Tools and Equipment

Fuel / Oil / Fluid / Coolant Recommendation BENK35K20308001

Fuel

NOTICE

Do not use leaded gasoline. If it is used, the engine and the emission control system will be damaged.

Use unleaded gasoline with an octane rating of 87 AKI or higher.

Unleaded gasoline containing up to 10% ethanol by volume may be used.

Engine Oil

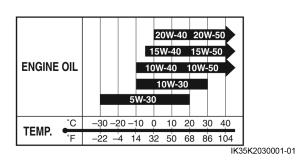
Use Suzuki genuine engine oil or equivalent. If Suzuki genuine engine oil is not available, select a proper engine oil according to the following guideline.

| | Engine oil |
|--------------------|-----------------------------|
| API service | SG, SH, SJ, SL, SM or SN |
| classification | 36, 311, 35, 3L, 314 01 314 |
| JASO T903 standard | MA |
| Viscosity | SAE 10W-40 |

If SAE 10W-40 engine oils are not available, select oils of an appropriate viscosity grade according to the following chart.

NOTICE

When 5W-30 or 10W-30 engine oil is used, use only SG, SH, SJ, SL API classification. If there are not used API classification engine oils, the engine will be damaged.



Suzuki does not recommend the use of engine oils which have an "ENERGY CONSERVING" or "RESOURCE CONSERVING" indication in the API service symbol for any of its motorcycles / ATVs.



Suzuki recommends the use of ECSTAR SUZUKI genuine oil or SUZUKI PERFORMANCE 4 MOTOR OIL.

Brake Fluid Specification and classification: DOT 4

A 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 reuse brake fluid left over from a previous servicing, which has been stored for a long period.

Engine Coolant

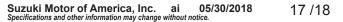
Suzuki recommends the use of SUZUKI LONG LIFE COOLANT.

Coolant 99000–99032–12X (SUZUKI LONG LIFE COOLANT (GREEN))

If SUZUKI COOLANT is not available, use an antifreeze/engine coolant compatible with an aluminum radiator, mixed with distilled water only.

NOTICE

- Use a high quality ethylene glycol base anti-freeze, mixed with distilled water. Do not mix an alcohol base anti-freeze and different brands of anti-freeze.
- Do not put in more than 60% anti-freeze or less than 50%. (Refer to Fig. 1 and 2.)



The 50:50 mixture of distilled water and ethylene glycol anti-freeze will provide the optimum corrosion protection and excellent heat protection, and will protect the cooling system from freezing at temperatures above -31 °C (-24 °F).

If the vehicle is to be exposed to temperatures below - 31 °C (-24 °F), this mixing ratio should be increased up to 55% or 60% according to the figure.

Anti-freeze Proportioning Chart

| Anti-freeze density | Freezing point |
|---------------------|-----------------|
| 50% | –31 °C (–24 °F) |
| 55% | –40 °C (–40 °F) |
| 60% | –55 °C (–67 °F) |

Fig.1: Engine coolant density-freezing point curve

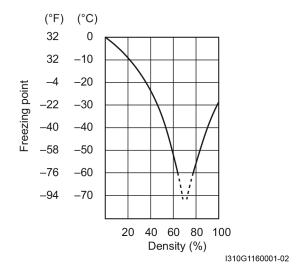
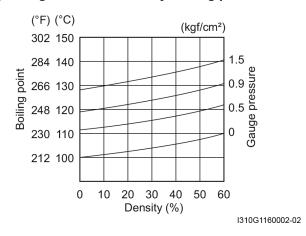


Fig.2: Engine coolant density-boiling point curve



Water for mixing

Use distilled water only. Water other than distilled water can corrode and clog the aluminum radiator. For engine coolant mixture information, refer to "Engine Coolant" (Page 0C-13).

NOTICE

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.

Anti-freeze / Engine coolant

The engine coolant perform 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 antifreeze/engine coolant. If this is not available, use an equivalent which is compatible with an aluminum radiator.

Front Differential Gear Oil

Use a SAE 90 hypoid gear oil which is rated GL-5 under the API classification system. If you normally operate the vehicle where ambient temperature is below 0 °C (32 °F), use a SAE 80 hypoid gear oil.

Rear Final Gear Oil

Use Mobil® MOBIFLUID 424 or equivalent.

Rear final gear oil (Mobil® MOBILFLUID 424 or equivalent)

G V A V K