

Suzuki SX4 2006-2014 Workshop Manual

Engine Mechanical: 10-45

Engine Mechanical: 10-39

main Bearings Inspection

10-45-0000

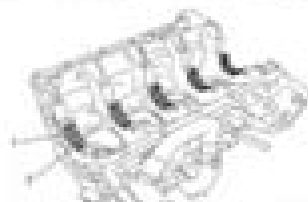
General Information

Service main bearings are available in standard size and 0.25 mm (0.0098 in.) undersize, and each of them has 5 kinds of bearings differing in tolerance.

Upper half of bearing (1) has oil groove (2) as shown in figure.

Install this half with oil groove to cylinder block.

Lower half of bearing does not have an oil groove.



10-45-0001

Visual Inspection

Check bearings for pitting, scratches, wear or damage. Any malfunction is found, replace both upper and lower halves. Never replace either half without replacing the other half.

main Bearing Clearance

NOTE

Do not rotate crankshaft while gauging plastic is installed.

Check clearance by using gauging plastic according to the following procedure.

1) Remove bearing caps.

2) Clean bearings and main journals.

3) Place a piece of gauging plastic (1) the full width of bearing (parallel to crankshaft or journal, according to hole).



10-45-0002

4) Tighten main bearing cap No.1 bolts (7) - (10) and main bearing cap No.2 bolts (11) - (20) gradually as follows.

a) Tighten bolts (7) - (10) to 30 N·m (2.0 kgf-m, 22.0 ft-lb) according to numerical order in figure.

b) In the same manner as in Step a), tighten them to 50 N·m (3.0 kgf-m, 36.5 ft-lb).

c) In the same manner as in Step a), retighten them to 60°.

d) Tighten bolts (11) - (20) to 25 N·m (2.0 kgf-m, 18.0 ft-lb) according to numerical order in figure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Main bearing cap No.2 bolt (11) - (20):

Tighten 25 N·m (2.0 kgf-m, 18.0 ft-lb) by the specified procedure.

Tightening torque

Main bearing cap No.1 bolt (7) - (10):

Tighten 30 N·m (2.0 kgf-m, 22.0 ft-lb), 50 N·m (3.0 kgf-m, 36.5 ft-lb) and 60° by the specified procedure.

Cylinder Head Components

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Component	1) General note		2) Torque	3) Remarks
	4) Torque	5) Torque		
Cylinder head bolt (1)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head gasket (2)	Do not reuse.	Do not reuse.	Do not reuse.	Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (3)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (4)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (5)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (6)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (7)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (8)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (9)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (10)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (11)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (12)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (13)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (14)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (15)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (16)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (17)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (18)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (19)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.
Cylinder head bolt (20)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)	60°	Do not reuse. Apply torque in 3 steps: 1st step: 30 N·m (2.0 kgf-m, 22.0 ft-lb), 2nd step: 50 N·m (3.0 kgf-m, 36.5 ft-lb), 3rd step: 60°.

Workshop Manual For Suzuki Sx4

Jeremy Churchill



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Suzuki GT, ZR & TS50 Jeremy Churchill, 1984 *Suzuki Ts 50x Owner S Workshop Manual* Richard Stone, Stone Richard Staff, 1994-12-01 **Suzuki Samurai/Sidekick & Geo Tracker Automotive Repair Manual** Bob Henderson, John Harold Haynes, 1995 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer **Suzuki GT, ZR & TS50 Owners Workshop Manual** Jeremy Churchill, 1986 [Suzuki GS-GSX 250, 400 and 450 Twins Owners Workshop Manual, M736](#) John Haynes, 1988-03-31 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer **Suzuki TS50 X Owners Workshop Manual** Richard Stone, 1993 *Suzuki GS & GSX 250, 400 & 450 Twins Owners Workshop Manual* Chris Rogers, Pete Shoemark, 1983 [Suzuki FZ50](#) Martin Meek, 1980 **Suzuki C550 & 80 Roadie Owners Workshop Manual** Jeremy Churchill, 1984 [Suzuki GS & GSX 250 and 400 Twins Owners Workshop Manual](#) Chris Rogers, 1982-01-01 *Suzuki GSF600 & 1200 Bandit Fours Service and Repair Manual* Matthew Coombs, 1997 Suzuki GSF600 GSF1200 Bandit Fours 1995 97 Shop Manual Haynes Covers 6cc and 12cc models 256 pgs 614 b w ill [Suzuki](#)

Student Owners Workshop Manual Stewart Wilkins,1976-01-01 *Suzuki GP 100 & 125 Owners Workshop Manual* Chris Rogers,1982-01-01 *Suzuki FZ50 Suzy Owners Workshop Manual* Martyn Meek,Pete Shoemark,1987 **Veloce Suzuki T20 & T200 1965-1969 Factory Workshop Manual** Floyd Clymer,Velocepress,2009-06-01 A faithful reproduction of the 1970 Floyd Clymer publication of the official factory Suzuki Workshop Manual for the T20 and T200 series of motorcycles including the 250cc Super Six and X6 Hustler and the 200cc X5 Invader and Sting Ray Scrambler There are comprehensive tables of technical data tolerances and fits and all of the expected data from a factory publication for the repair and overhaul of all major and minor mechanical and electrical components making it an invaluable resource for collectors and restorers of these classic Suzuki motorcycles There are 177 illustrations and each procedure is explained in a step by step method using an appropriate illustration The translation from Japanese to English is at times a little quirky but the illustrations make up for any difficulty in understanding what needs to be done Out of print and unavailable for many years this book is highly sought after on the secondary market and we are pleased to be able to offer this reproduction as a service to all Suzuki enthusiasts worldwide Suzuki GS/GSX 550 4-valve Fours Owners Workshop Manual Pete Shoemark,1985 **Suzuki Trail Bikes Owners Workshop Manual** Mansur Darlington,1975 Suzuki Trail Bikes Owners Workshop Manual Chris Rogers (Writer on automotive engineering),1982

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