

# Suzuki SX4 2006-2014 Workshop Manual

Engine Mechanical: 10-45

Engine Mechanical: 10-39

## main Bearings Inspection

10-45-10

### 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.



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### 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).



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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.

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

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

## Cylinder Head Components

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10-45-13

Component	1) General note		2) Tightening torque (kgf-m)	3) Tightening torque (ft-lb)
	4) Tightening torque (kgf-m)	5) Tightening torque (ft-lb)		
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)
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)	30 N·m (2.0 kgf-m, 22.0 ft-lb)	50 N·m (3.0 kgf-m, 36.5 ft-lb)

# Workshop Manual For Suzuki Sx4 2010

**Jeremy Churchill**



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