

# 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.

10-45-0003

5) Remove bearing caps. 6) On gauging plastic, install a piece of gauging plastic (2) the full width of its width. 7) Rotate crankshaft to its limit, replace plastic (2) with plastic (3) and check both upper and lower halves. 8) If necessary, repeat the procedure to produce proper clearance. 9) If necessary, it will be necessary to regrind the crankshaft for use of 0.25 mm undersize.



10-45-0004

10) After installing new bearing, recheck clearance.

11) After rechecking clearance, install bearing caps.

Standard: 0.021 - 0.041 mm (0.0008 - 0.0016 in.)

Limit: 0.054 mm (0.0021 in.)

10-45-0005

12) After rechecking clearance, install bearing caps.

13) After rechecking clearance, install bearing caps.

14) After rechecking clearance, install bearing caps.

15) After rechecking clearance, install bearing caps.

16) After rechecking clearance, install bearing caps.

17) After rechecking clearance, install bearing caps.

18) After rechecking clearance, install bearing caps.

19) After rechecking clearance, install bearing caps.

20) After rechecking clearance, install bearing caps.

21) After rechecking clearance, install bearing caps.

22) After rechecking clearance, install bearing caps.

23) After rechecking clearance, install bearing caps.

24) After rechecking clearance, install bearing caps.

25) After rechecking clearance, install bearing caps.

26) After rechecking clearance, install bearing caps.

27) After rechecking clearance, install bearing caps.

28) After rechecking clearance, install bearing caps.

29) After rechecking clearance, install bearing caps.

30) After rechecking clearance, install bearing caps.

## Cylinder Head Components

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1	Cylinder head	2	Cylinder head gasket
3	Cylinder head bolt (1)	4	Cylinder head nut (2)
5	Cylinder head bolt (3)	6	Cylinder head nut (4)
7	Cylinder head bolt (5)	8	Cylinder head nut (6)
9	Cylinder head bolt (7)	10	Cylinder head nut (8)
11	Cylinder head bolt (9)	12	Cylinder head nut (10)
13	Cylinder head bolt (11)	14	Cylinder head nut (12)
15	Cylinder head bolt (13)	16	Cylinder head nut (14)
17	Cylinder head bolt (15)	18	Cylinder head nut (16)
19	Cylinder head bolt (17)	20	Cylinder head nut (18)
21	Cylinder head bolt (19)	22	Cylinder head nut (20)
23	Cylinder head bolt (21)	24	Cylinder head nut (22)
25	Cylinder head bolt (23)	26	Cylinder head nut (24)

# Workshop Manual For Suzuki Sx4

**Mohammed Hamed Ahmed Soliman**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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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 through 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

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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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classification of angiosperms based on the types of cotyledon present angiosperms are divided into two classes they are monocotyledons and dicotyledons the dicotyledonous angiosperms have two cotyledons in their seeds and the

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they classified all the seed plants into 3 groups or classes i e dicotyledons 165 families gymnosperms 3 families and monocotyledons 34 families 4 they included disputed orders among ordines anomali which they could not place satisfactorily classification of angiosperms definition examples diagrams - Apr 03 2022

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interpretation of the probable origins of the angiosperms and their most primitive characteristics and some elucidation of realignments that deviate considerably from other recent classifications many botanists have complained about the plethora of new classifications of the angiosperms all differing in many details

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angiosperms are classified in a single phylum the anthophyta modern angiosperms appear to be a monophyletic group which means that they originated from a single ancestor flowering plants are divided into two major groups according to the structure of the cotyledons and pollen grains among others

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most modern angiosperms are classified as either monocots or eudicots based on the structure of their leaves and embryos basal angiosperms such as water lilies are considered more primitive because they share morphological traits with both monocots and eudicots

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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianae and ceratophyllanae that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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3 1 8 classification systems from traditional classification to apg iii to apg iv current plant taxonomy follows the so called apg 4 system apg angiosperm phylogeny group revised in 2016 86 this system updates the traditional taxonomic system based on morphology with modern genetic data and succeeds apg iii 87 the constant

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