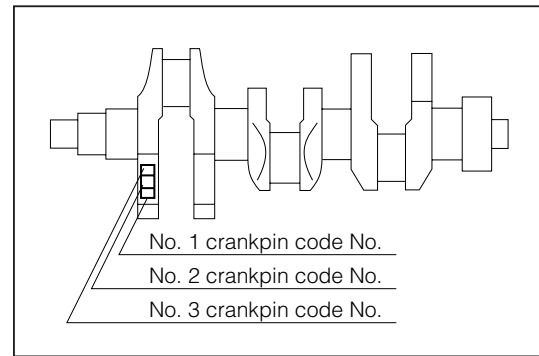


ENGINE MECHANICAL

Crankpin code No.

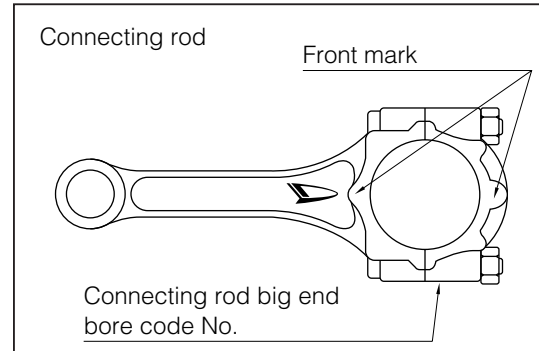
Crankpin code No.	Crankpin diameter (mm)
1	39.976 - 39.984
2	39.985 - 39.992
3	39.993 - 40.000



mEM00134-00128

Connecting rod big end bore code No.

Connecting rod big end bore code No.	Connecting rod big end bore diameter (mm)
4	43.000 - 43.008
5	43.009 - 43.016
6	43.017 - 43.024



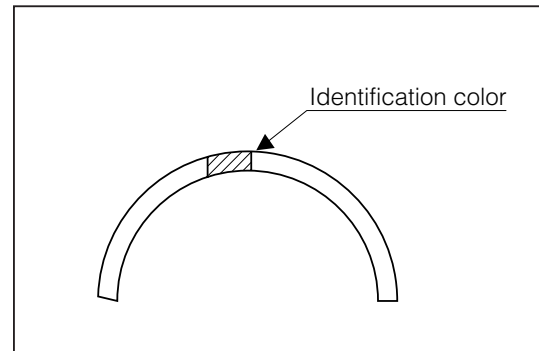
mEM00135-00129

Connecting rod bearing code No.

Connecting rod bearing code No. (Identification color)	Connecting rod bearing center thickness (mm)
1 (Yellow)	1.486 - 1.490
2 (Green)	1.491 - 1.494
3 (Brown)	1.495 - 1.498
4 (Black)	1.499 - 1.502
5 (Blue)	1.503 - 1.506

Connecting rod bearing selection

Crankshaft		Crankpin code No.		
		1	2	3
Connecting rod	Connecting rod big end bore code No.	4	3	2
		5	4	3
		6	5	4



mEM00136-00130

Specified crankpin diameter

Kind of bearing	Crankpin diameter (mm)
U/S 0.25	39.726 - 39.750
U/S 0.50	39.476 - 39.500

mEM00137-00000

- (3) Lift off the crankshaft.
- (4) Remove the upper bearing.

NOTE:

- Be very careful not to allow the main bearings to be mixed with the bearings of other cylinders.
- Remove the thrust washer.

23. Measure the oil clearance between the crank journal and the crankshaft bearing cap.

NOTE:

- For the tightening method of the crankshaft bearing cap, refer to page EM-50.)

Oil Clearance:

STD: 0.004 - 0.028 mm

Maximum Limit: 0.06 mm

NOTE:

- If the oil clearance is greater than maximum limit, measure the crank journals, cylinder block crank journal bore diameters and crankshaft bearing center thickness, following the procedure given below.

Replace any part which will not conform to the specifications.

As an alternative method, when undersized bearings are available as replacement parts, machine the crank journal in such a way that the following formula given below may be satisfied.

Measured cylinder block crank journal bore diameter – (Measured crank journal diameter + Undersized bearing center thickness to be used $\times$ 2) = 0.004 - 0.028 mm

Measurement of crank journal diameter

1. Measure the crank journal diameter of the crankshaft in four directions for each crank journal, 90 degrees spaced, at those points indicated in the right figure.
2. The greatest value among the measured diameters is regarded as the crank journal diameter.

Specified Crank Journal Diameter:

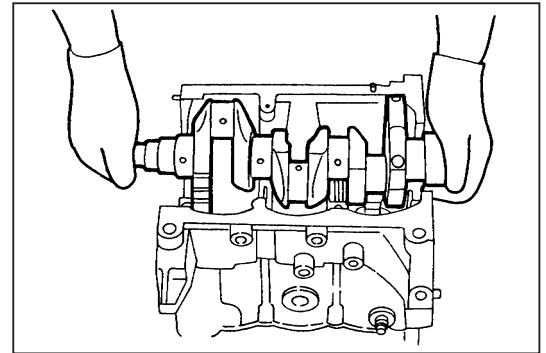
45.976 - 46.000 mm

Measurement of cylinder block crank journal bore diameter

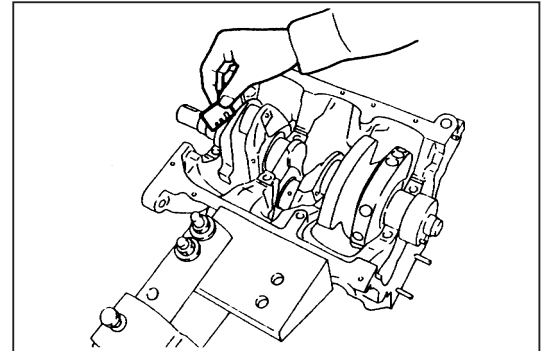
1. Perform the measurement at the two points shown in the figure.
2. The smaller value among the measured diameters is regarded as the cylinder block crank journal bore diameter.

Specified Cylinder Block Crank Journal Bore Diameter:

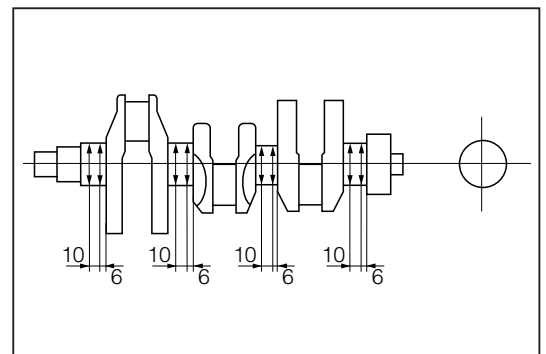
50.000 - 50.024 mm



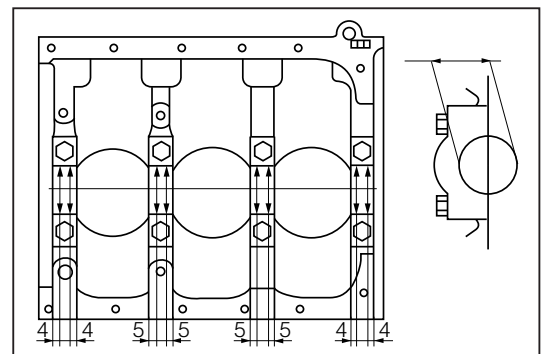
mEM00142-00135



mEM00143-00136



mEM00144-00137



mEM00145-00138

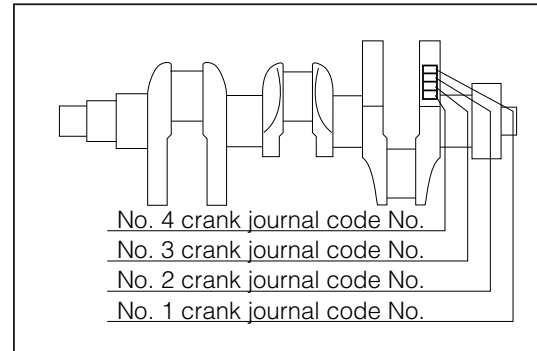
CAUTION:

- If the classification that has been determined by the measured value differs from the code attached to the part, be sure to carefully select the bearing.
- Since undersized bearings are available, the crank journals of a crankshaft which will not meet the specification can be machined according to the undersized bearing. In this case, perform machining of the crank journals, referring to the table below.
- When some parts only are replaced, the replacement should be done only when the classification matches with each other.

Crank journal code No.

Crank journal code No.	Crank journal diameter (mm)
1	45.976 - 45.984
2	45.985 - 45.992
3	45.993 - 46.000

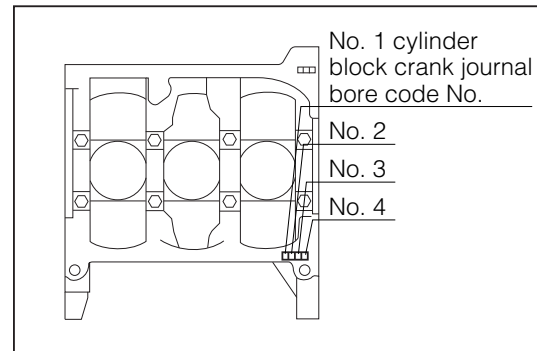
mEM00146-00000



mEM00147-00139

Cylinder block crank journal bore code No.

Cylinder block crank journal bore code No.	Cylinder block crank journal bore diameter (mm)
4	50.000 - 50.008
5	50.009 - 50.016
6	50.017 - 50.024



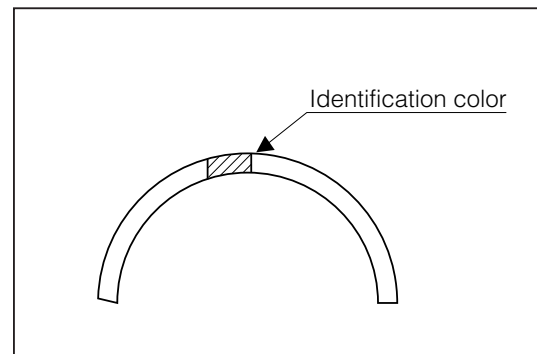
mEM00148-00140

Crankshaft bearing code No.

(Engine No.: ~5538863)

(Engine No.: 5538864~)

Crankshaft bearing code No. (Identification color)	Crankshaft bearing center thickness (mm)	Crankshaft bearing code No. (Identification color)	Crankshaft bearing center thickness (mm)
3 (Green)	1.994 - 1.998	3 (Brown)	1.994 - 1.998
4 (Brown)	1.999 - 2.002	4 (Black)	1.999 - 2.002
5 (Black)	2.003 - 2.006	5 (Blue)	2.003 - 2.006
6 (Blue)	2.007 - 2.010	6 (Pink)	2.007 - 2.010
7 (Pink)	2.011 - 2.014	7 (Purple)	2.011 - 2.014



mEM00149-00141

Crankshaft bearing selection code No. Specified crank journal diameter

Crankshaft		Crank journal code No.			
		1	2	3	
Cylinder block	Cylinder block crank journal bore code No.	4	5	4	3
		5	6	5	4
		6	7	6	5

Kind of bearing	Cylinder block crank journal bore diameter (mm)	Crank journal diameter (mm)
U/S 0.25	50.000 - 50.008	45.742 - 45.750
	50.009 - 50.016	45.750 - 45.759
	50.017 - 50.024	45.758 - 45.767
U/S 0.50	50.000 - 50.008	45.492 - 45.500
	50.009 - 50.016	45.500 - 45.509
	50.017 - 50.024	45.508 - 45.517

mEM00150-00000

SERVICE SPECIFICATIONS

Type			Petrol, 4 cycle
Cylinder No.			3-cylinder-in-line
Combustion chamber type			Pent roof type
Valve mechanism			DOHC, Directly driven by camshaft
Bore × stroke			72.0 mm × 81.0 mm
Total displacement			989 cc
Compression ratio			10.0 ± 0.3
Compression pressure			1579 - 1755 kPa (16.1 - 17.9 kg/cm ²) at 400 rpm
Maximum output			40.5/5200 (kW/rpm)
Maximum torque			88.3/3600 (N·m/rpm)
Number of piston ring	Compression ring		2
	Oil ring		1
Valve timing	Intake	Open	BTDC 3.5°
		Close	ABCD 42.5°
	Exhaust	Open	BBDC 36.5°
		Close	ATDC 5.5°
Vale clearance	Intake (Cold)		0.18 ± 0.05 mm
	Exhaust (Cold)		0.25 ± 0.05 mm
Idring speed	M100 series	STD	850 ± 50 rpm
		AUS and tropical spec.	900 ± 50 rpm
	L701 series and L901 series		850 ± 50 rpm
Blow-by gas recirculating system			Closed type