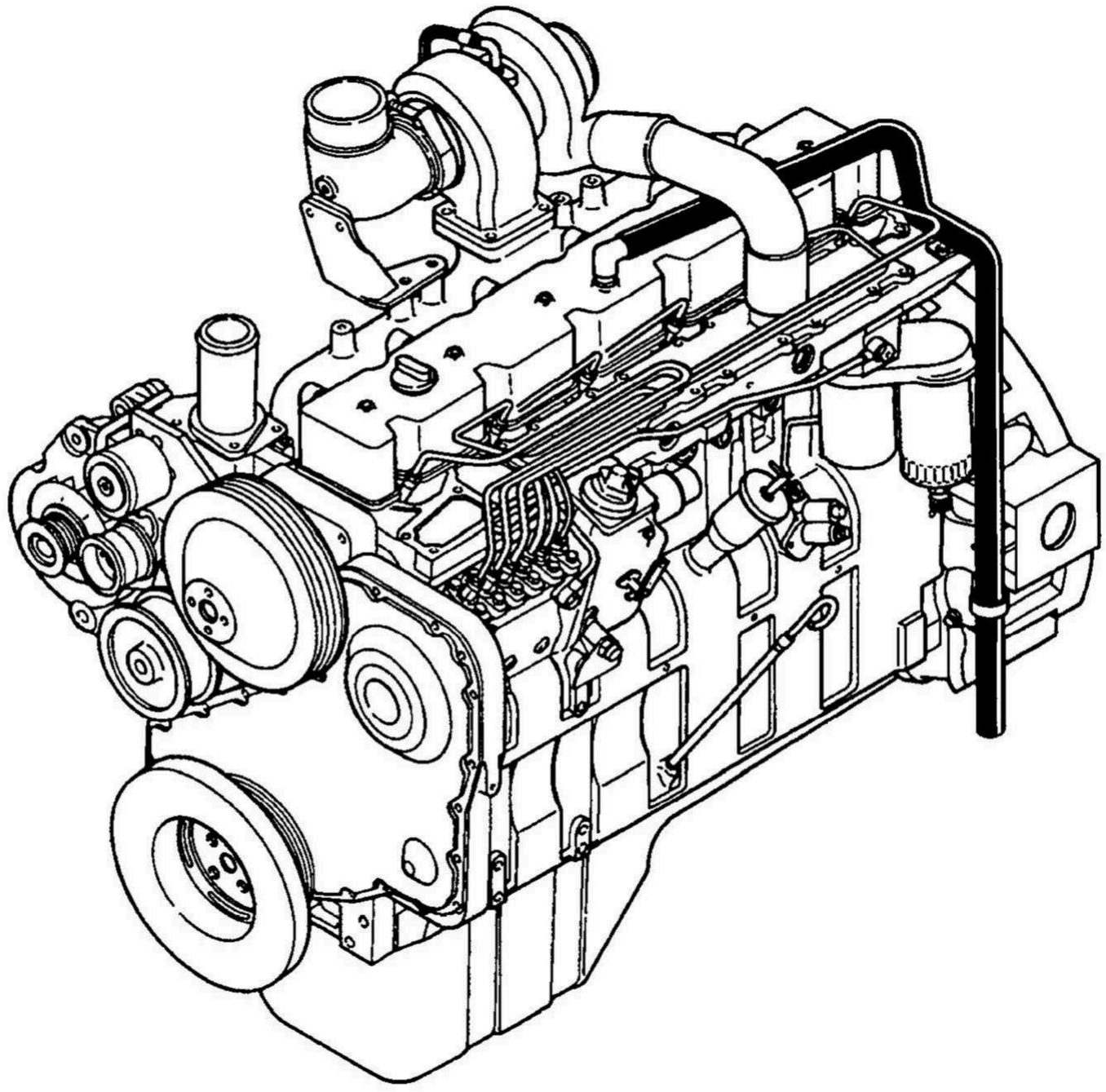
CEBM614SH0

KDC 614 SERIES ENGINE
SHOP MANUAL
1991 SERIES



KOMATSU®

[Rev. A]

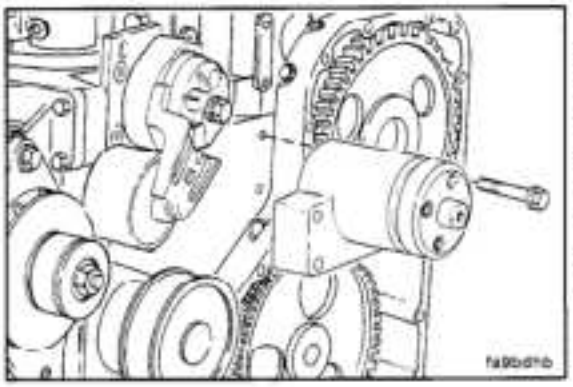
MidWestTech | Komatsu 1991 KDC 610 Series Engine Service Manual | Publication CEBM614SH0

Order the manual at mid-west-tech.com >

Table of Contents

	Page
Introduction	1
Engine Identification	E
Engine Disassembly and Assembly - Group 00	0
Cylinder Block - Group 01	1
Cylinder Head - Group 02	2
Rocker Levers - Group 03	3
Cam Followers - Group 04	4
Fuel System - Group 05	5
Injectors and Fuel Lines - Group 06	6
Lubricating Oil System - Group 07	7
Cooling System - Group 08	8
Drive Units - Group 09	9
Air Intake System - Group 10	10
Exhaust System - Group 11	11
Air Equipment - Group 12	12
Electrical Equipment - Group 13	13
Engine Testing - Group 14	14
Instruments and Controls - Group 15	15
Mounting Adaptations - Group 16	16
Specifications and Torque Values - Group 18	18
Service Literature	L
Index	X

MidWestTech | Komatsu 1991 KDC 610 Series Engine Service Manual | Publication CEBM6... Order the manual at mid-west-tech.com >

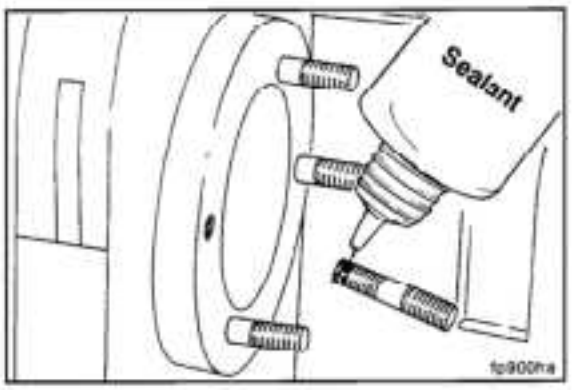


Fan Hub Assembly - Installation

10 mm

Install the fan hub. Be sure the fan hub shaft assembly turns freely. Tighten the capscrews.

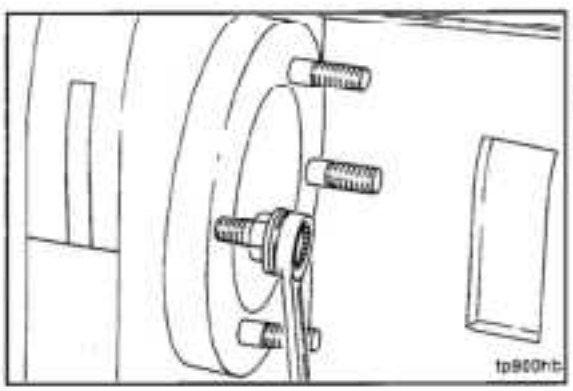
Torque Value: 24 N•m [18 ft-lb]



Fuel Injection Pump - Installation

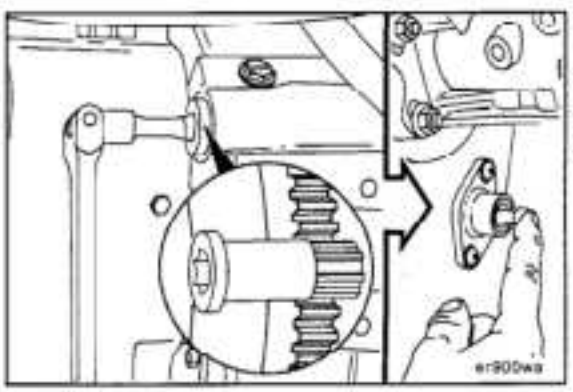
Loctite™ is used to help retain the injection pump mounting studs.

Apply Loctite™ 242 to the threads of the studs.



13 mm

Use two nuts locked together as illustrated to install the studs.

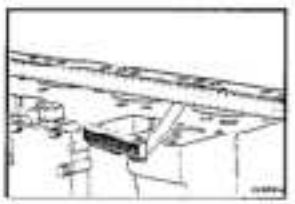
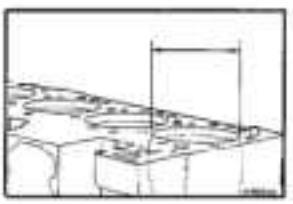
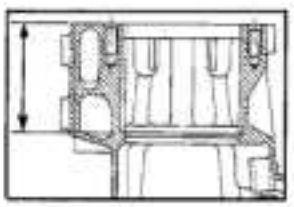
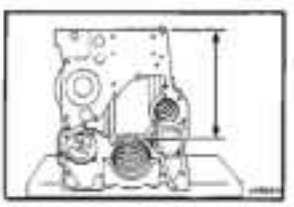
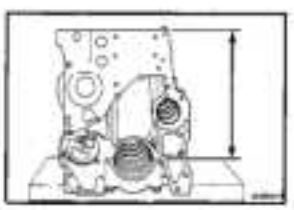
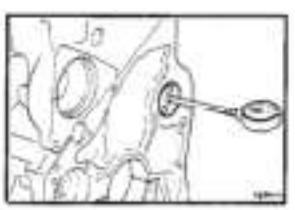


Part No. 3377371 Engine Barring Tool

Make sure the piston in cylinder No. 1 is at TDC.

NOTE: Rotate the crankshaft only in the direction of rotation.

Order the manual at mid-west-tech.com >

Component or Assembly (Procedure)	Ref.No./Steps	Metric		U.S.	
Cylinder Block - Rebuild Specifications					
Cylinder Block Head Deck Flatness					
End-to-End		0.075 mm	MAX	0.0030 in	
Side-to-Side		0.075 mm	MAX	0.0030 in	
Cylinder Block Upper Liner Bore I.D.		132.900 mm	MIN	5.2323 in	
		132.990 mm	MAX	5.2358 in	
Cylinder Block Counterbore Depth From Cylinder Block Head Deck		122.930 mm	MIN	4.8397 in	
		123.000 mm	MAX	4.8425 in	
Cylinder Block Height From Head Deck Surface to Top of Main Bearing Bore		309.40 mm	MIN	12.181 in	
		309.60 mm	MAX	12.189 in	
Cylinder Block Height From Head Deck Surface to Centerline of the Main Bearing Bore		361.90 mm	MIN	14.248 in	
		362.10 mm	MAX	14.256 in	
Main Bearing Bore Diameter					
With New Bearings		98.079 mm	MIN	3.8614 in	
		98.125 mm	MAX	3.8632 in	
Without Bearings		104.982 mm	MIN	4.1331 in	
		105.018 mm	MAX	4.1346 in	
Camshaft Bore Diameter					
Without Bushing		64.01 mm	MAX	2.520 in	
With Bushing Installed		60.12 mm	MAX	2.367 in	

Order the manual at mid-west-tech.com >