

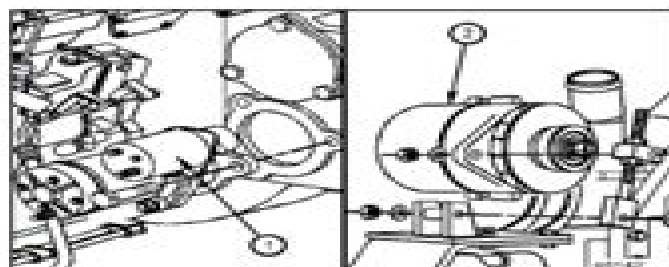
DISASSEMBLY

SPECIAL TOOLS

No.	Part Number	Part Description
A	3375960	Valve Spring Compressor
B	3823137	Piston Ring Expander
C	3376015	Liner Puller
	3375629	
D	3823495	Protrusion Gauge
E	3825190	Fuel Injector Puller

WASHING

- Before disassembling the engine, check all parts for any cracks or damage, then clean the whole engine carefully with steam so that the disassembly work can be carried out swiftly.
 - A) Before washing, remove starting motor assembly (1), alternator assembly (2), and electric wiring.
 - B) Cover all the openings of the engine with tape.
 - C) Using a washing machine, clean engine.
- Carefully wash all mating surfaces where mud tends to collect.



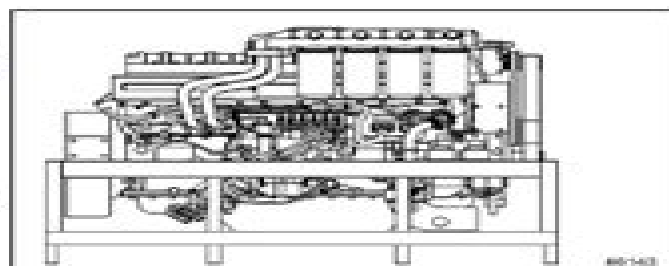
SETTING ENGINE STAND

- Prepare a stable engine stand that will prevent the engine from falling over, then set the engine assembly on the stand and secure it in position.



Engine assembly: Approx. 3,200 kg (7,056 lb)

(The weight differs according to the machine mounting the engine.)



GENERAL DISASSEMBLY

Engine cooling water and engine oil

1. Drain engine cooling water and engine oil.



Engine oil: Approx. 147 L (39 gal) (The amount of oil differs according to the engine model.)



Government agencies have determined that used engine oil is toxic and carcinogenic. Avoid inhalation, ingestion, and prolonged contact with used engine oil.

Komatsu Sa12v140z 1 Series Diesel Engine Shop Manual

Cecil Roy Dodd



Komatsu Sa12v140z 1 Series Diesel Engine Shop Manual:

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