



Service Repair Manual

Models

C18 Industrial Engine

Product: INDUSTRIAL ENGINE
Model: C18 INDUSTRIAL ENGINE WJB
Configuration: C18 Industrial Engine WJB00001-UP

Disassembly and Assembly C18 Fire Pump Industrial Engine

Media Number -KENR8146-02

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i07535626

Flywheel Housing - Remove and Install

SMCS - 1157-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3939	Link Bracket	2
B	-	Block 12 by 12 by 24	1

Start By:

- Remove the crankshaft rear seal. Refer to Disassembly and Assembly, "Crankshaft Rear Seal - Remove".
- Remove the electric starting motor. Refer to Disassembly and Assembly, "Electric Starter Motor - Remove and Install".
- Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".
- Remove the engine speed sensor. Refer to Disassembly and Assembly, "Engine Speed Sensor - Remove and Install".

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers

before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, PERJ1017, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat[®] products.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

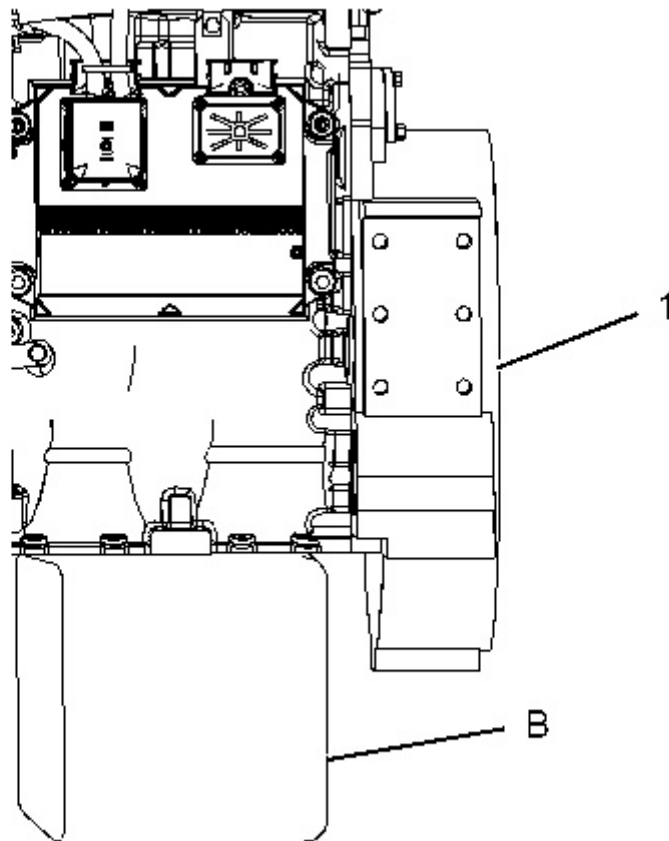


Illustration 1

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1. Use Tooling (B) or a suitable block to support the rear of the cylinder block in order to remove flywheel housing (1). The weight of the engine is approximately 1814 kg (4000 lb).
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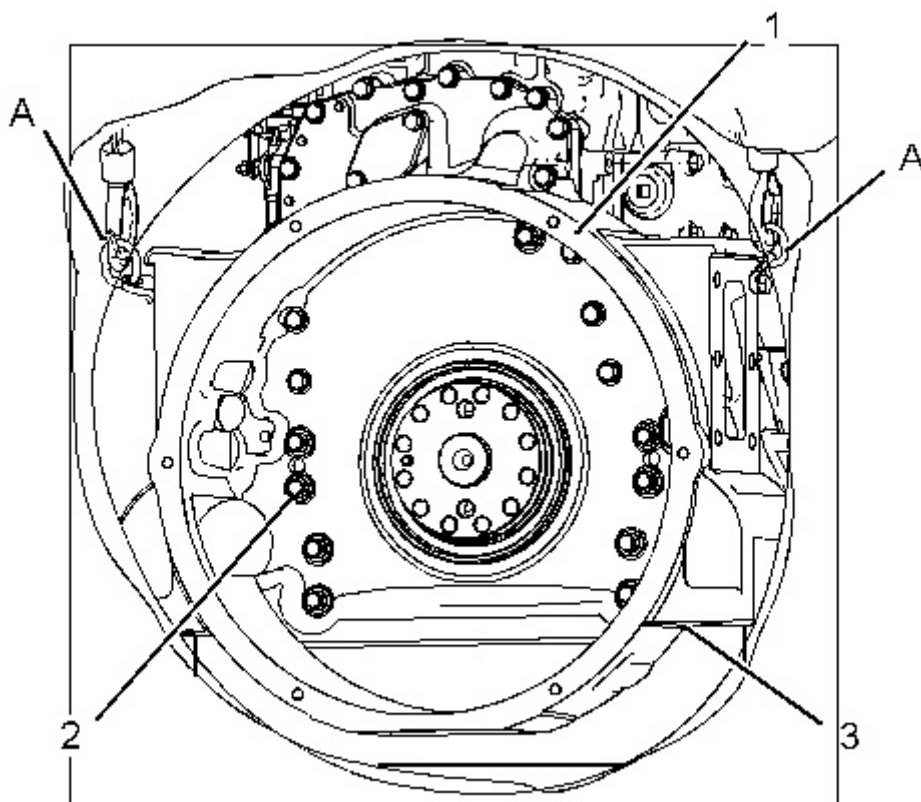


Illustration 2

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2. Install Tooling (A) and a suitable lifting device on flywheel housing (1). The weight of flywheel housing (1) is approximately 105 kg (230 lb).
3. Remove bolts (2). Remove flywheel housing (1) from the cylinder block.
4. Remove gasket (3) from flywheel housing (1).

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3939	Link Bracket	2
C	-	Loctite Superflex Silicone Adhesive Sealant, Blue	-

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

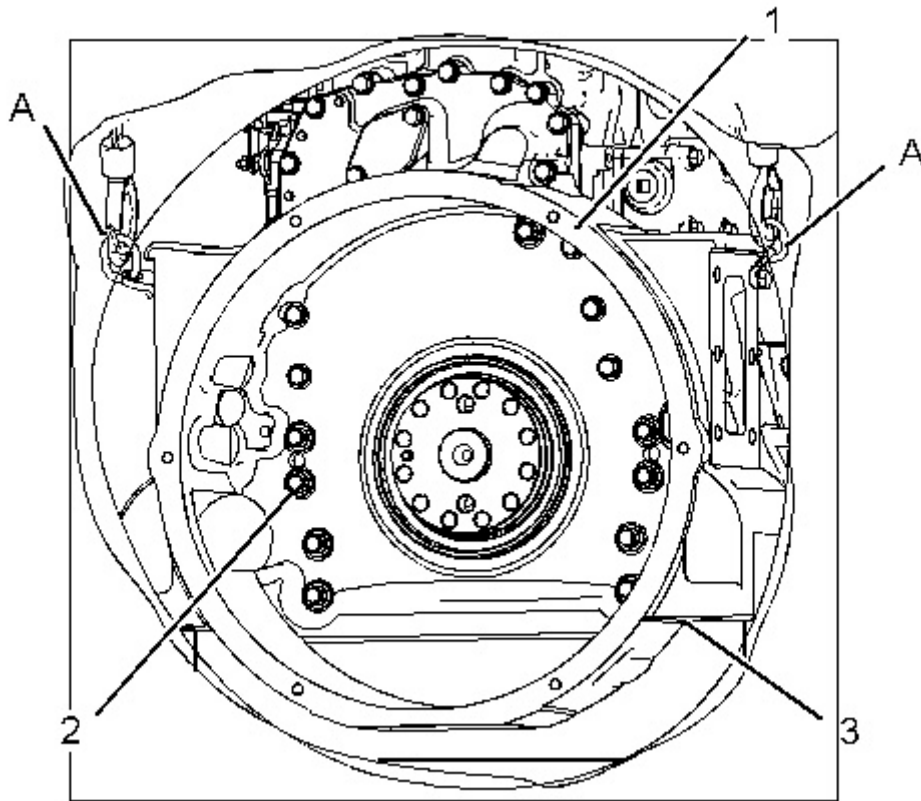


Illustration 3

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1. Thoroughly clean flywheel housing (1) and the rear face of the cylinder block.
 2. Install Tooling (A) and a suitable lifting device on flywheel housing (1). The weight of flywheel housing (1) is approximately 105 kg (230 lb).
 3. Install gasket (3) on the dowel pins of the cylinder block. Apply Tooling (C) to the bottom of gasket (3) in order to fill the space at the cylinder block, flywheel housing (1), and the engine oil pan.
 4. Position flywheel housing (1) and install bolts (2).
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