CATERPILLAR®

Service Repair Manual

Models

420F2 Backhoe Loader

Disassembly and Assembly

416F2, 420F2 IT, 420F2 ST, 422F2, 428F2, 430F2 IT, 430F2 ST, 432F2, 434F2 and 444F2 Backhoe Loaders Engine Supplement

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i06199414

Engine - Install

SMCS - 1000-012

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	1U-7505	Hydraulic Jack	1
B	6V-3145	Load Leveling Beam	1

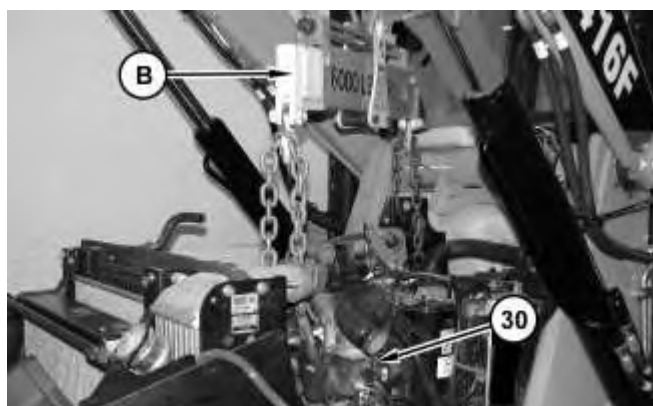

Illustration 1   g03849495

1. Attach Tooling (B) and a suitable lifting device to engine (30). The weight of engine (30) is approximately 544kg (1200 lb). Use Tooling (B) and the suitable lifting device to position engine (30) into the machine.

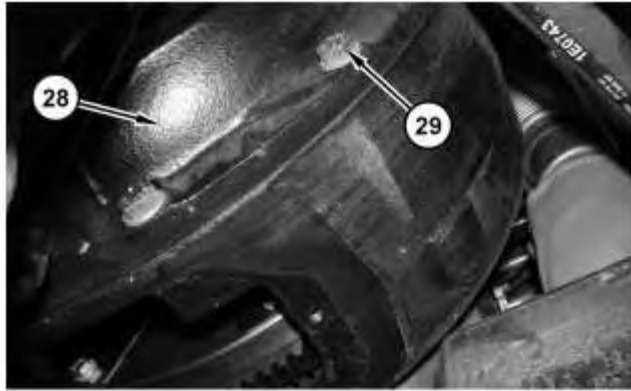Illustration 2   g03849484
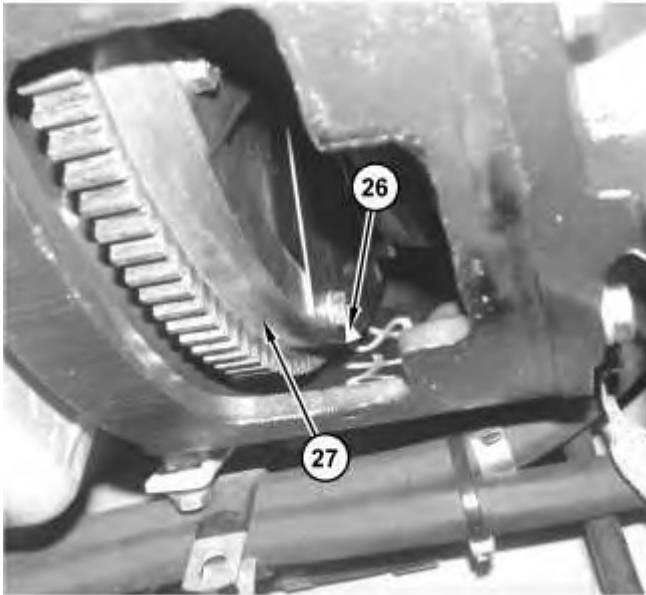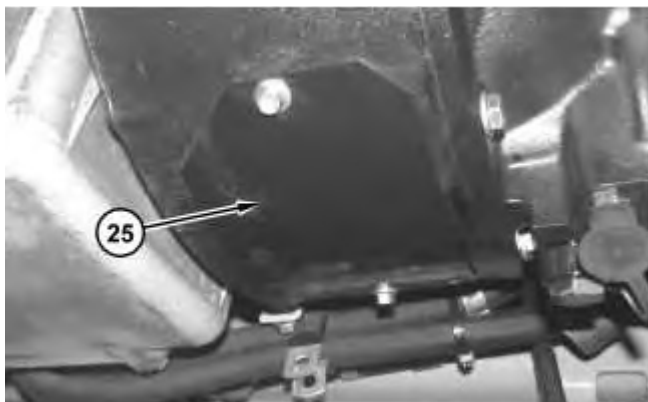

Illustration 3   g03849257

2. Align bell housing (28) to the engine and install bolts (29).

3. Rotate the engine and install bolts (26) in order to connect flywheel (27) to the torque converter.

4. Install engine mounting bolts (31). Repeat on opposite side.

Illustration 5   g03849253

5. Install access panel (25).

Illustration 6   g02999824

6. Remove Tooling (A) from the transmission.

Illustration 7   g03849251
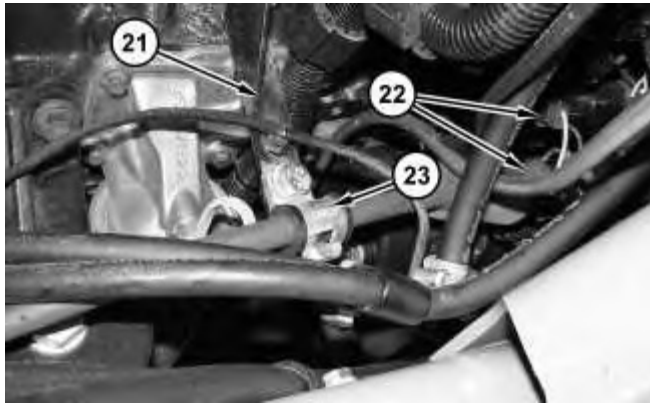
Illustration 8   g03849240

7. Connect ground strap (24). Connect harness assemblies (21) to the electric starting motor. Connect clip (22) to bracket (23).

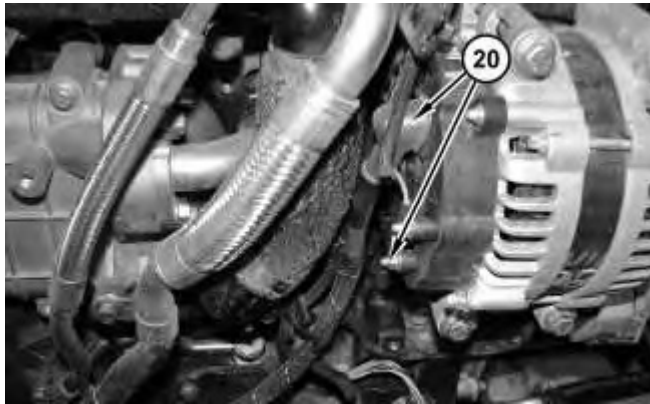Illustration 9   g03849221

8. Connect harness assemblies (20) to the alternator.

Illustration 10   g03849219

9. Position air conditioner compressor (19) on the engine and install bolts (18).

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