

Product: TRACK-TYPE TRACTOR
Model: D7F TRACK-TYPE TRACTOR 94N
Configuration: D7F TRACTOR 94N05192-UP (MACHINE)

Disassembly and Assembly D7F ENGINE

Media Number -REG00822-00

Publication Date -01/11/1971

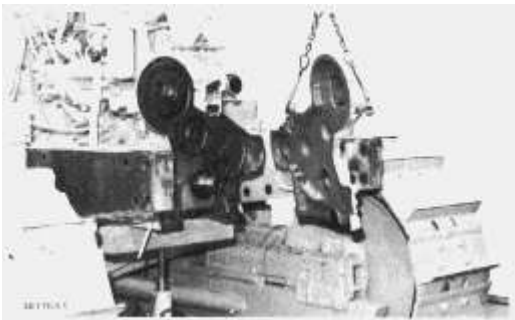
Date Updated -17/03/2010

REG008220031

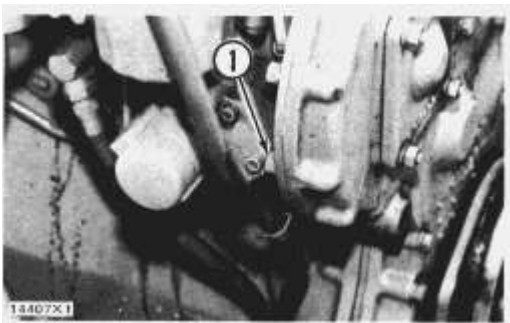
Timing Gear Cover

SMCS - 1251-12

Install Timing Gear Cover



1. Remove the old timing gear cover gasket, and install a new gasket.



2. Attach a hoist and install the timing gear cover while tightening mounting bolt (1).

3. Install the remaining timing gear cover mounting bolts and nuts.

4. Trim the timing gear cover gasket flush with oil pan face of cylinder block.

5. Position the engine front support on timing gear cover, and install mounting bolts.

6. Lower the front of engine until weight of engine is on front support. Remove the blocks and jack. Install the front support-to-frame mounting bolts.

7. Install the fan drive assembly.

concluding steps:

a) install vibration damper and crankshaft pulley

b) install water pump

c) install alternator

d) install oil pan plate

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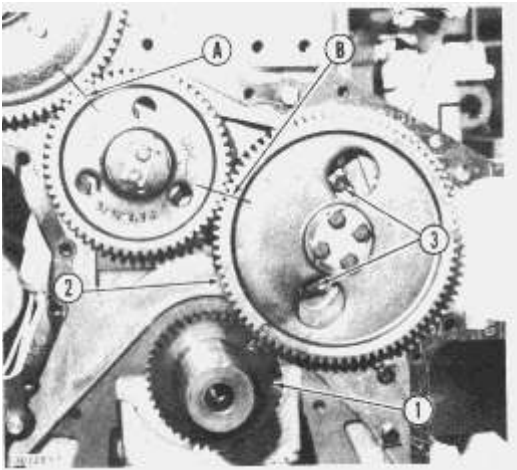
Camshaft

SMCS - 1210-11; 1210-12

Remove Camshaft

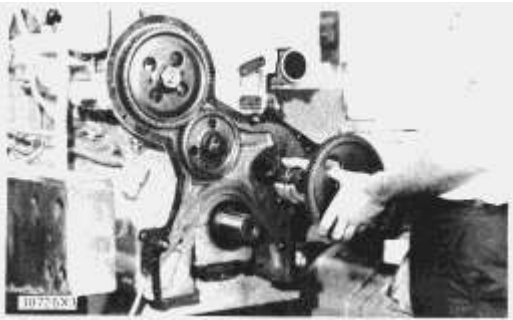
preparatory steps:

- a) remove valve lifters
- b) remove timing gear cover



1. Rotate the crankshaft until the "C" mark on the crankshaft gear (1) is aligned with the "C" mark on the camshaft gear (2).
2. Mark the mating teeth of the accessory drive shaft gear and idler gear at location (A). Mark the mating teeth of idler gear and camshaft gear at location (B). This will insure proper fuel injection pump camshaft timing during installation of camshaft.
3. Remove the camshaft retaining bolts (3), and thrust washer.
4. Slide the camshaft and gear out of the cylinder block.

Install Camshaft



1. Thoroughly lubricate the lobes and bearing journals of the camshaft with clean SAE 30 engine oil.
2. Install the camshaft in the cylinder block with timing marks aligned on the accessory drive shaft gear, idler gear, camshaft gear, and crankshaft gear.
3. Install the camshaft retaining bolts and thrust washer.

NOTE: If any of the above four timing gears have been replaced, it will be necessary to time the accessory drive shaft. See REMOVE AND INSTALL FUEL INJECTION PUMP HOUSING AND GOVERNOR AS A UNIT.

concluding steps:

- a) install timing gear cover
 - b) install valve lifters
-

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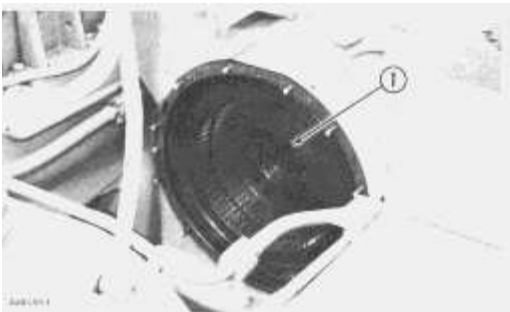
Flywheel

SMCS - 1156-11; 1156-12

Remove Flywheel

preparatory step:

a) remove torque divider (power shift machine) or remove flywheel clutch (direct drive machine)



1. Remove all but one of the flywheel retaining bolts (1). Install a 5/8" - 18NF guide bolt in the crankshaft.

2. Install a 1/2" - 13NC forged eyebolt in the flywheel. Attach a hoist and remove the flywheel - weight 120 lbs. (54 kg).

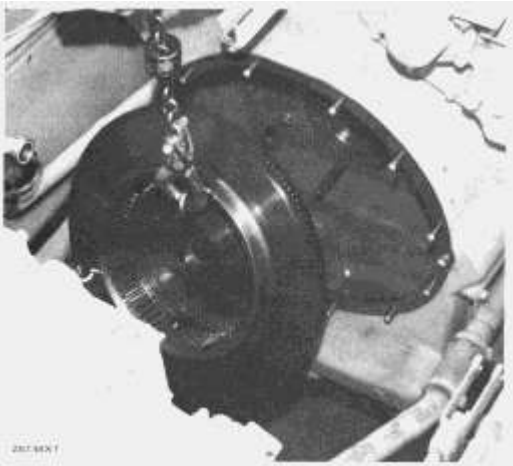


NOTICE

Keep the flywheel level during removal in order to prevent gear (2) from falling off front of flywheel.

3. Remove the hydraulic pump drive gear (2) from front of flywheel.

Install Flywheel



1. Install a 5/8" - 18NF guide pin in the crankshaft.
2. Install a 1/2" - 13NC forged eyebolt in the flywheel.
3. Attach a hoist and lower the flywheel into position.
4. Install the hydraulic pump drive gear on the front of flywheel.
5. Position the flywheel on the crankshaft with mark on flywheel aligned with mark on the crankshaft.
6. Install all but one of the flywheel retaining bolts. Remove the eyebolt and guide pin, and install the remaining retaining bolt.

concluding step:

- a) install torque divider or install flywheel clutch
-

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REG008220034

Crankshaft Rear Seal

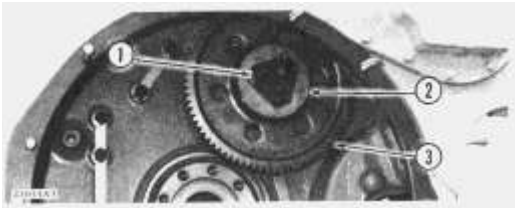
SMCS - 1161-11; 1161-12

Remove Crankshaft Rear Seal

Tools Required	A
1P3075 Seal Puller Group	1

preparatory step:

a) remove flywheel



1. Remove the hydraulic pump drive idler gear mounting bolts (1) and lock.
2. Remove idler gear (3) and shaft (2).



3. Using seal puller group (A), remove the crankshaft rear seal.

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