



Service Repair Manual

Models

657E WHEEL SCRAPER

Product: WHEEL SCRAPER

Model: 657E WHEEL SCRAPER 87Z

Configuration: 657E Wheel Scraper 87Z00001-UP (MACHINE) POWERED BY 3408 Engine

Disassembly and Assembly 3408E and 3412E Engines for Caterpillar Built Machines

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i03335022

Gear Group (Rear) - Install

SMCS - 1206-012; 1212-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	FT-1342	Guide Bolt	2
C	1P-0524 ⁽¹⁾	Drive Plate	1
D	1P-0513 ⁽¹⁾	Drive Plate	1

⁽¹⁾ Part of the **1P-0520** Driver Group

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: There are many possible configurations of the rear gear group and flywheel housing. The following procedure illustrates a typical example.



Illustration 1

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Typical example

1. Install dowel (23) in the camshaft if the dowel was removed.

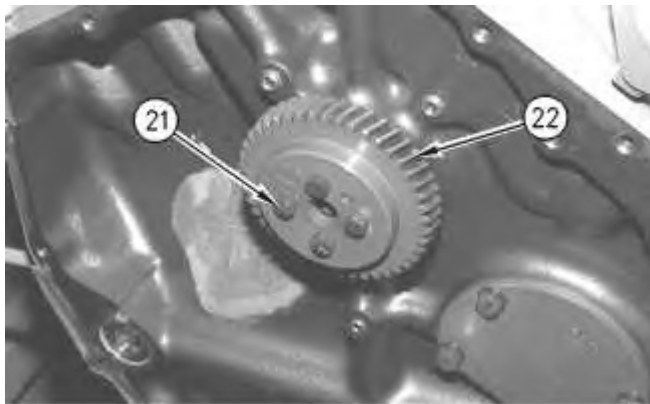


Illustration 2

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Typical example

2. Install camshaft gear (22) in position on the camshaft. Install four bolts (21).

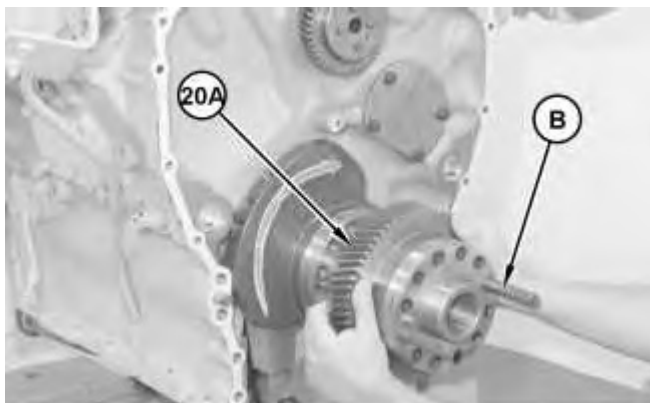


Illustration 3

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3. Install the O-ring seal on gear (20A).

4. Lightly lubricate the seal on the end of the crankshaft with clean engine oil.
5. Install Tooling (B) in the crankshaft. Install gear (20A).
6. Use the following procedure for assembly of balancer gear (12).

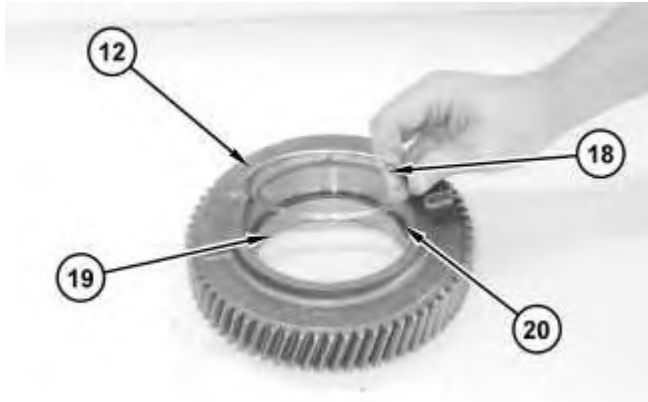


Illustration 4

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- a. Install ring (20), bearing cup (19), and spacer (18) in balancer gear (12).

Note: Spacer (18) must be installed on the deepest side of gear (12) and against ring (20).

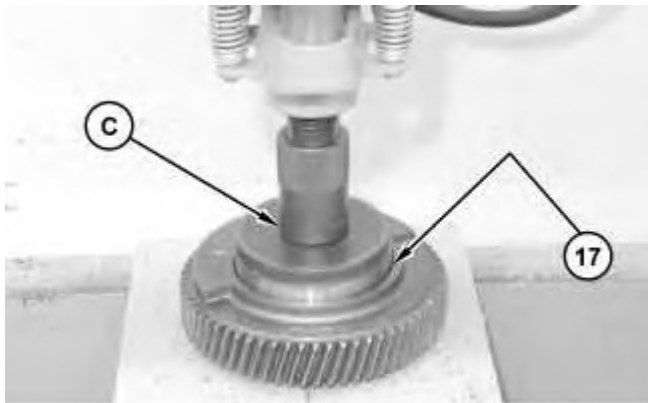


Illustration 5

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- b. Use a press and Tooling (C) in order to install bearing cup (17). Install bearing cup (17) on the side of the gear that is stamped with the timing mark. Bearing cup (17) should be in contact with the spacer.
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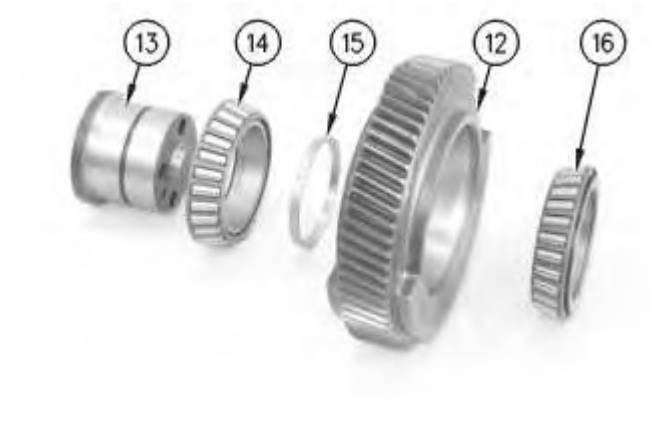


Illustration 6

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Typical example

- c. Install bearing (16), spacer (15), bearing (14), and shaft (13) in gear (12).
7. Use the procedure in Step 6 in order to assemble idler gear (11).

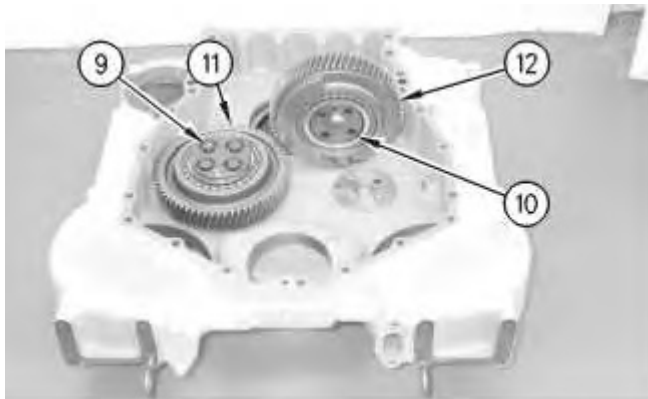


Illustration 7

g00587895

Typical example

8. Place idler gear (11) and balancer gear (12) in position on the flywheel housing. Make sure that the oil holes in shafts (10) are in alignment with the holes that are in the flywheel housing.
- Note:** Install balancer gear (12) with the timing mark toward the flywheel housing.
9. Install bolts (9).
10. Use the following procedure in order to assemble adapter assemblies (1).
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