



Service Repair Manual

Models

657 and 657B
WHEEL SCRAPER

Product: WHEEL SCRAPER
Model: 657 WHEEL SCRAPER 53K
Configuration: 657B SCRAPERS 53K00001-UP (MACHINE)

Disassembly and Assembly 3406E and 3456 Engines for Caterpillar Built Machines

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i02241901

Gear Group (Front) - Remove

SMCS - 1206-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1

Start By:

- Set the No. 1 piston to top center on the compression stroke. Refer to Testing and Adjusting, "Finding Top Center Position for No. 1 Piston".
- Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: Be sure to mark the orientation of each of the gears for installation purposes.

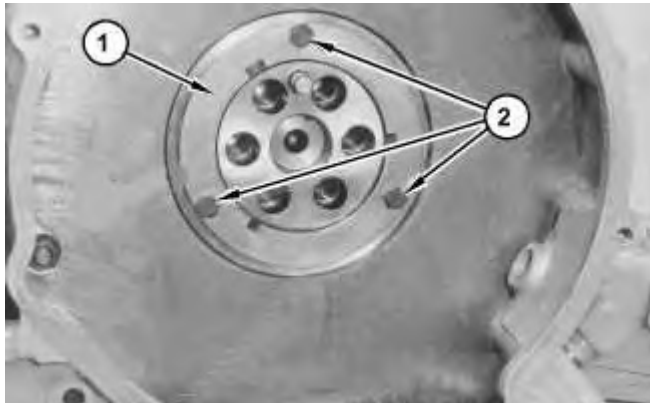


Illustration 1

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1. Remove bolts (2) and thrust plate (1) .

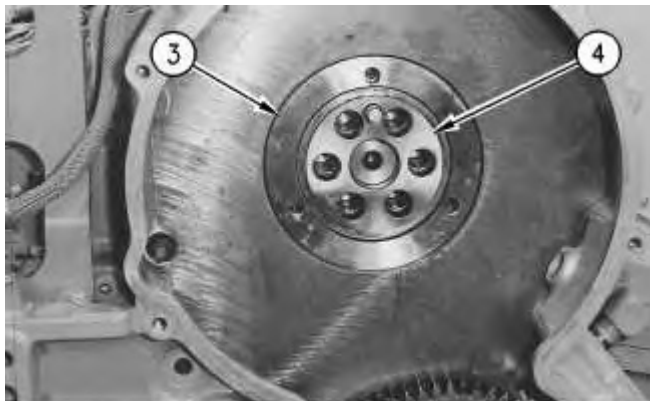


Illustration 2

g00576209

2. Remove seal assembly (3) and adapter (4) .
-

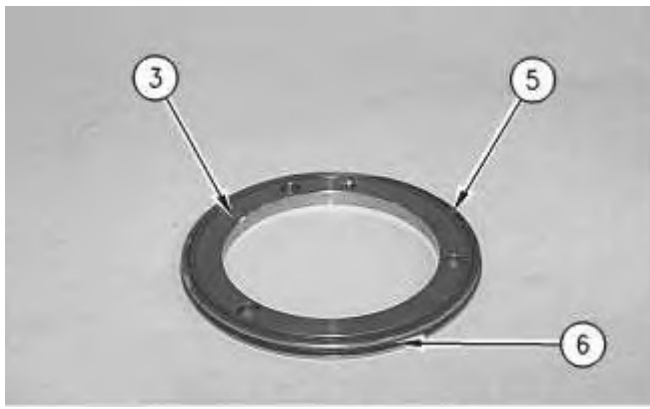


Illustration 3

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3. Remove O-ring seals (5) and (6) from seal assembly (3) .

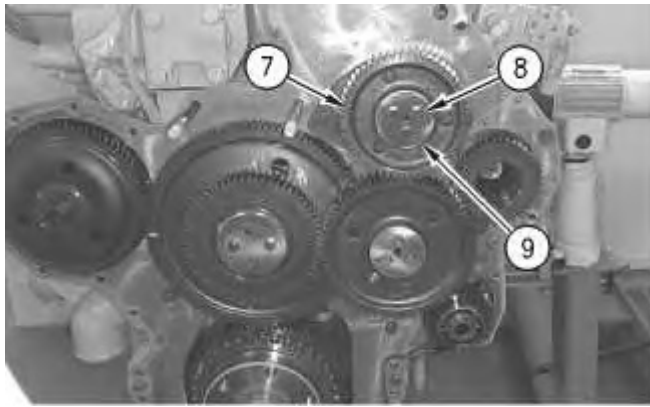


Illustration 4

g00576202

4. Remove bolts (8), plate (9), and adjustable idler gear (7) .

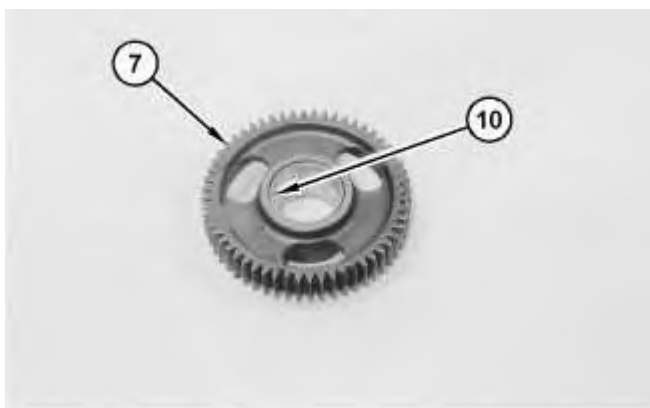


Illustration 5

g01039614

5. Check the condition of bearing (10) in adjustable idler gear (7). If bearing (10) is worn or damaged, use a new part for replacement. Use Tooling (A) to replace bearing (10) in adjustable idler gear (7) .

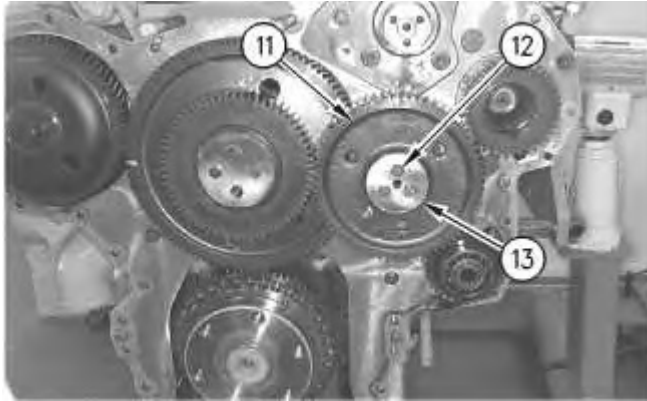


Illustration 6

g00576203

6. Remove bolts (12), plate (13), and idler gear (11) .

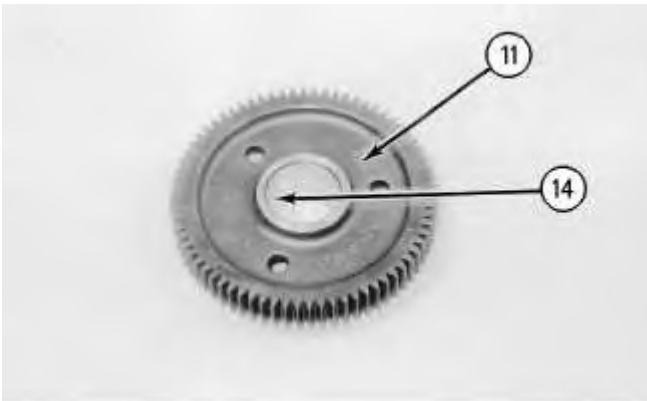


Illustration 7

g00576204

7. Check the condition of bearing (14) in idler gear (11). If bearing (14) is worn or damaged, use a new part for replacement. Use Tooling (A) to replace bearing (14) in idler gear (11) .
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