

Product: WHEEL TRACTOR-SCRAPER  
Model: 637K WHEEL TRACTOR-SCRAPER WTY  
Configuration: 637K Wheel Tractor Scraper WTY00001-UP (MACHINE)

## Disassembly and Assembly 631K and 637K Wheel Tractor Scraper Power Train

Media Number -M0067918-02

Publication Date -01/03/2018

Date Updated -03/04/2018

i04500533

# Transmission, Torque Converter, Transfer Gears - Separate - Scraper

SMCS - 3003-076

## Separation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Brackets	2
B	138-7575	Link Brackets	2
C	1U-9200	Lever Puller Hoist Gp	1
D	1U-7498	Support Stand As	2
E	5J-0490	Bolts	2

### Start By:

- A. Remove the torque converter, the transmission, and the transfer gears (scraper).
  - B. Remove the transmission oil pump (scraper).
  - C. Remove transmission hydraulic control valve (scraper).
  - D. Remove the transmission oil filter (scraper).
  - E. Remove the relief valve (transmission lubrication) (scraper).
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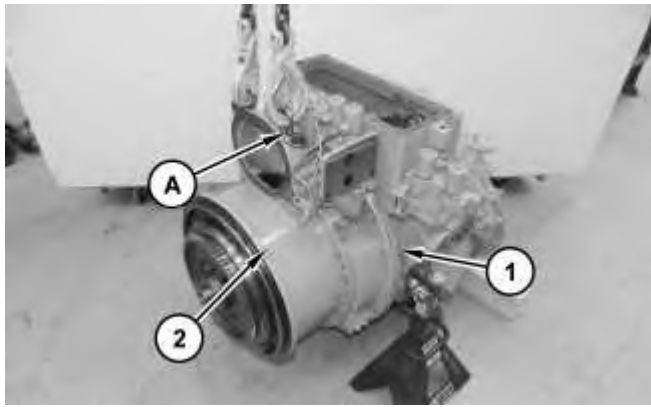


Illustration 1

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1. Attach Tooling (A) and a suitable lifting device to torque converter (2). The weight of torque converter (2) is approximately 184 kg (405 lb). Remove bolts (1) and torque converter (2) .

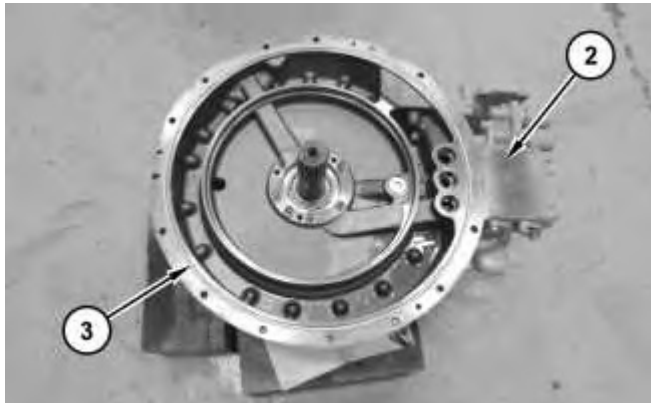
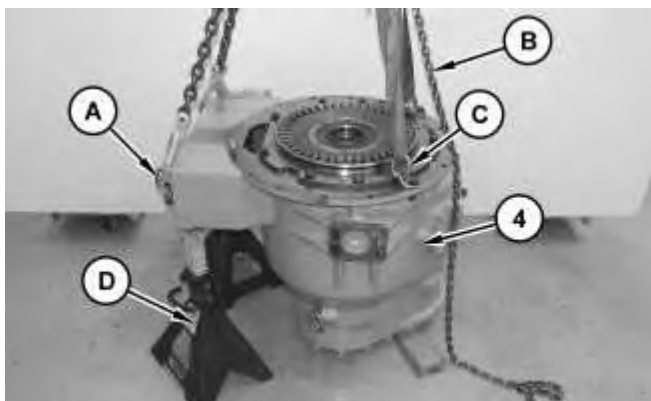


Illustration 2

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2. Position torque converter (2) onto suitable cribbing.
3. Remove O-ring seal (3) .



4. Attach Tooling (A), Tooling (B), and Tooling (C) to planetary gear assembly and transfer gear case (4). The weight of transmission planetary and transfer gear case (4) is approximately 630 kg (1390 lb). Reposition transmission planetary and transfer gear case (4) onto Tooling (D) and suitable cribbing.

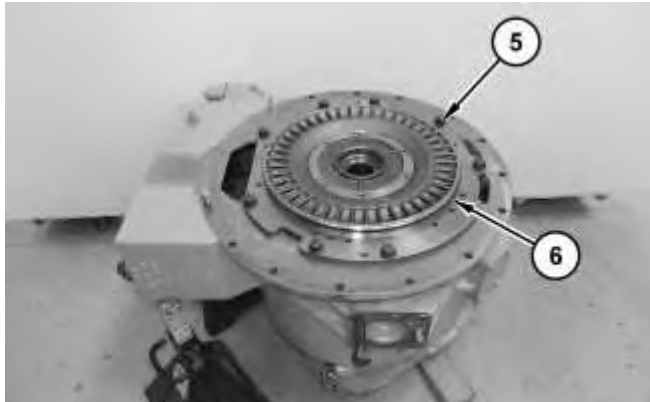


Illustration 4

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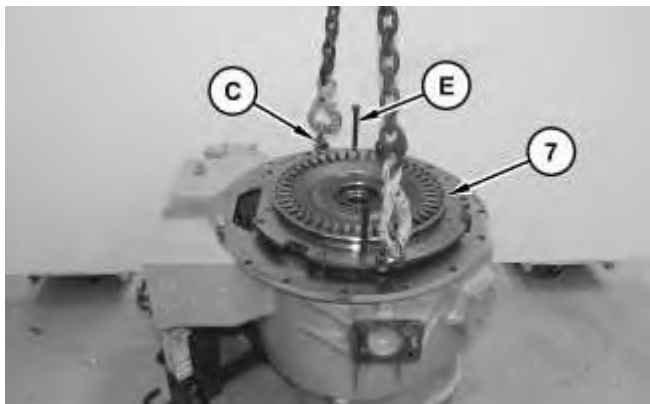


Illustration 5

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5. Remove O-ring seal (6) and bolts (5) .
6. Use Tooling (E) to separate transmission planetary (7) from the transfer gear case. Raise transmission planetary (7) to install Tooling (C) .
7. Attach Tooling (C) and a suitable lifting device to transmission planetary (7). The weight of transmission planetary (7) is approximately 315 kg (695 lb). Remove transmission planetary (7) .

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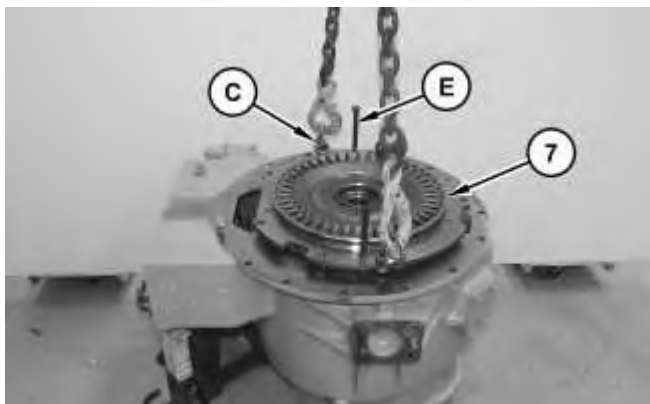
# Transmission, Torque Converter, Transfer Gears - Connect - Scraper

SMCS - 3033-077

## Connection Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Brackets	2
B	138-7575	Link Brackets	2
C	1U-9200	Lever Puller Hoist Gp	1
D	1U-7498	Support Stand As	2
E	5J-0490	Bolts	2



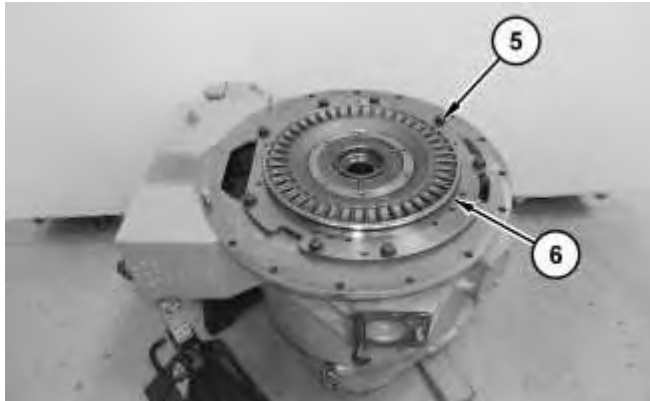


Illustration 2

1. Install Tooling (E) approximately 38 mm (1.5 inch) below the housing of transmission planetary (7) .
2. Attach Tooling (C) and a suitable lifting device to transmission planetary (7). The weight of transmission planetary (7) is approximately 315 kg (695 lb). Position transmission planetary (7) in the transfer gear case.
3. Remove Tooling (C) and the suitable lifting device.
4. Use Tooling (E) to lower transmission planetary (7) into position. Remove Tooling (E) .
5. Install bolts (5) and O-ring seal (6) .

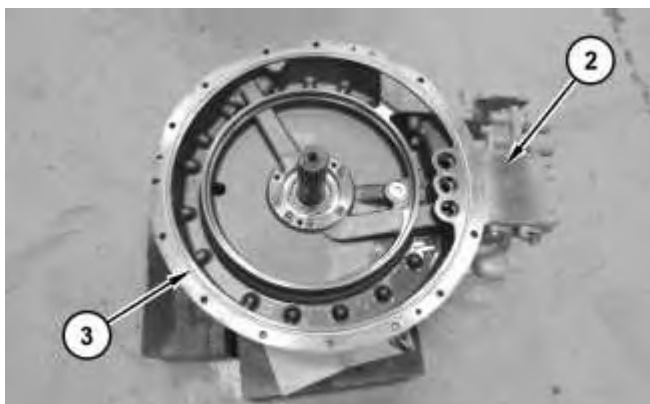


Illustration 3

6. Install O-ring seal (3) .
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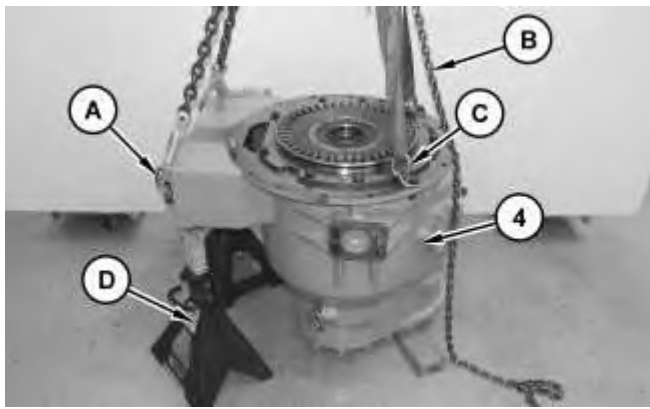


Illustration 4

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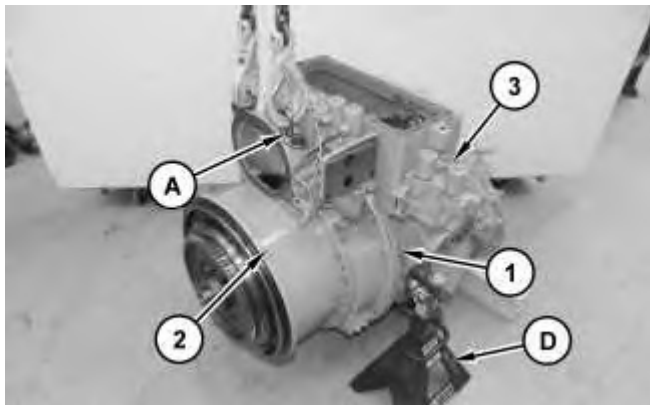


Illustration 5

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7. Attach Tooling (A), Tooling (B), and Tooling (C) to transmission planetary and transfer gear case (3). The weight of transmission planetary and transfer gear case is approximately 630 kg (1390 lb). Reposition transmission planetary and transfer gear case (3) onto Tooling (D) and suitable cribbing.
8. Attach Tooling (A) and a suitable lifting device to torque converter (2). The weight of torque converter (2) is approximately 184 kg (405 lb). Install torque converter (2) and bolts (1) .

**End By:**

- a. Install the relief valve (transmission lubrication) (scraper).
  - b. Install the transmission oil filter (scraper).
  - c. Install transmission hydraulic control valve (scraper).
  - d. Install the transmission oil pump (scraper).
  - e. Install the torque converter, the transmission, and the transfer gears (scraper).
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Date Updated -03/04/2018

i05774729

## Power Pack - Remove and Install - Scraper

SMCS - 1000-010; 3003-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-3145	Load Leveler Gp	1
B	422-2352	Support Stand As	4
C	207-1601	Rubber Lubricant	1

#### Start By:

- a. Remove the hood.
  - b. Remove the driveshaft.
  - c. Remove the push-pull hook.
  1. Drain the coolant. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change" for the correct draining and filling procedures.
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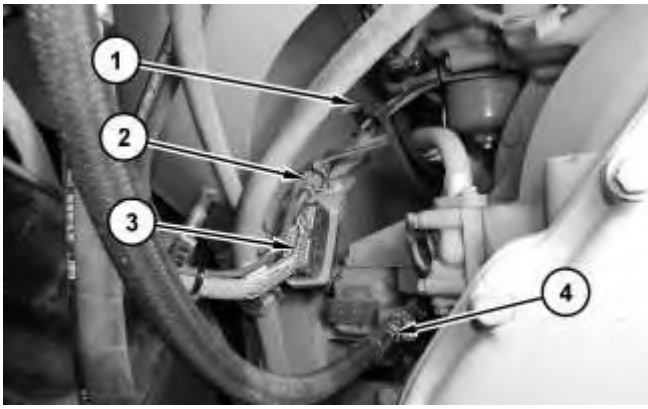


Illustration 1

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2. Remove bolt (1). Disconnect harness assembly (2). Disconnect harness assembly (3). Disconnect hose assembly (4).

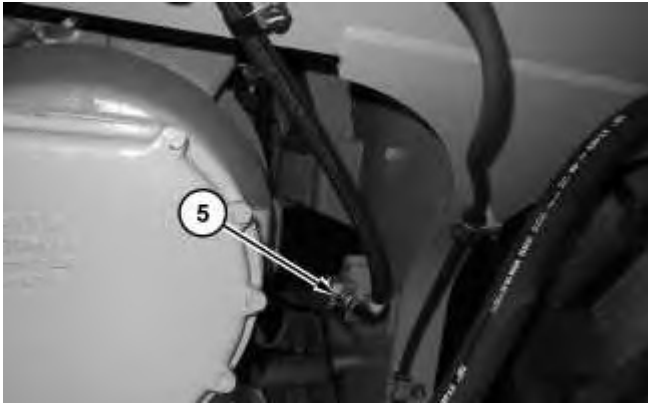


Illustration 2

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3. Disconnect hose assembly (5).

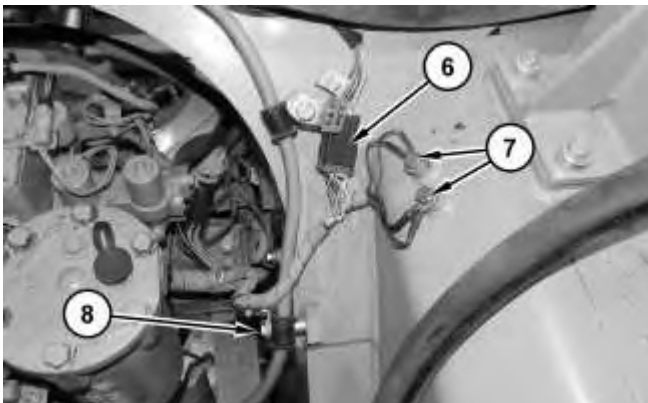


Illustration 3

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4. Disconnect harness assembly (6). Remove bolts (7) and bolt (8).



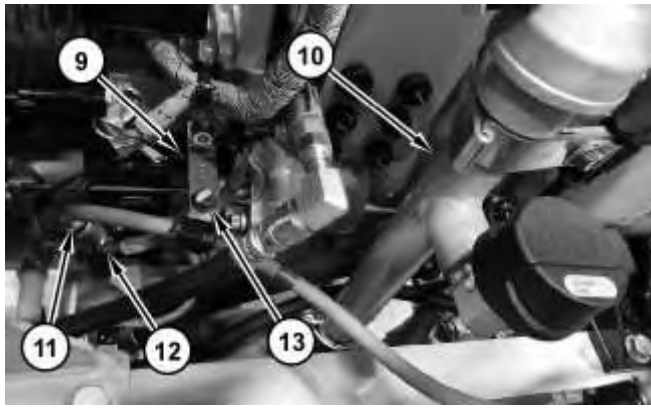


Illustration 4

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5. Remove dipstick (10). Disconnect harness assemblies (9) and (12). Disconnect cable assembly (11).

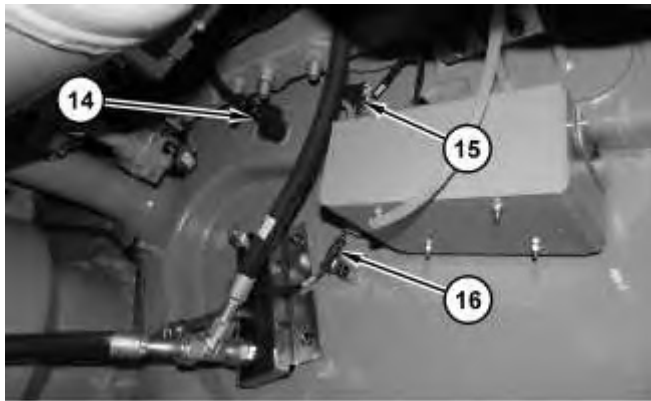


Illustration 5

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6. Disconnect cable assembly (14). Disconnect harness assemblies (15) and (16).

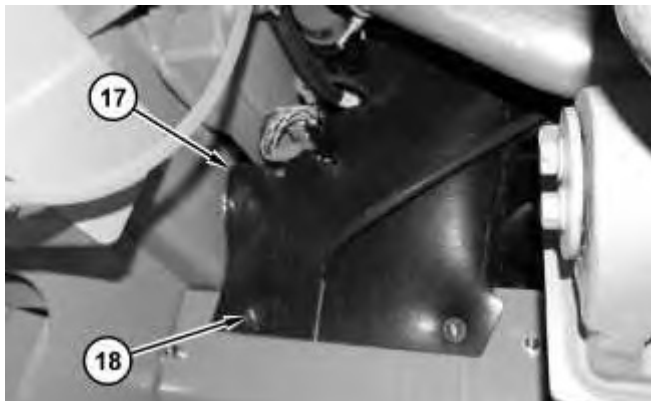


Illustration 6

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7. Remove bolts (18) and reposition baffle (17) out of the way.

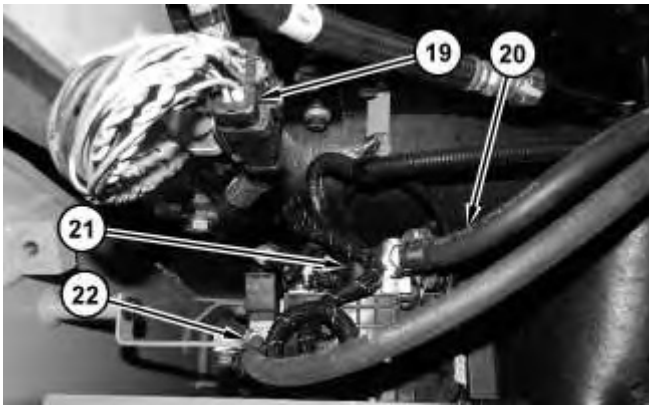


Illustration 7

g03663263

**Note:** Refer to Special Instruction, REHS8231, "Removal Procedures for Diesel Exhaust Fluid (DEF) Connectors" for the correct removal procedure of hose assembly (21).

8. Disconnect harness assemblies (19). Disconnect hose assembly (21) and hoses (20) and (22).



Illustration 8

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9. Disconnect harness assembly (23).



Illustration 9

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10. Disconnect harness assembly (25). Remove bolt (24).

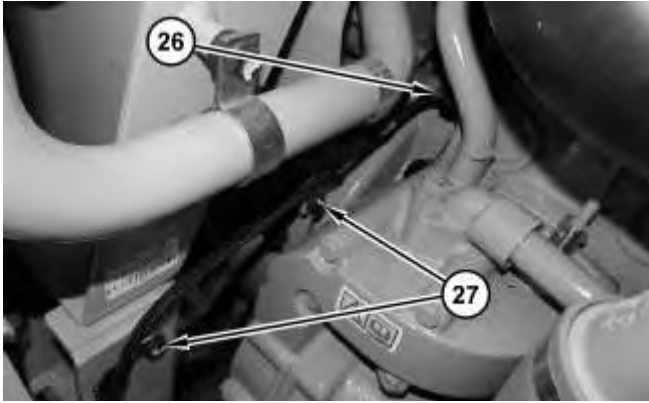


Illustration 10

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11. Disconnect harness assembly (26) and remove bolts (27).

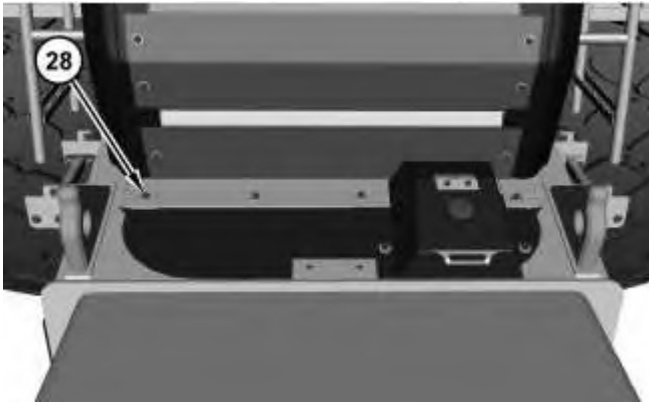


Illustration 11

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12. Remove bolts (28).

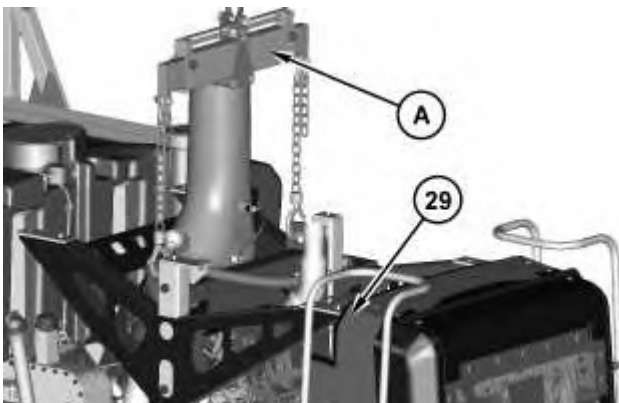
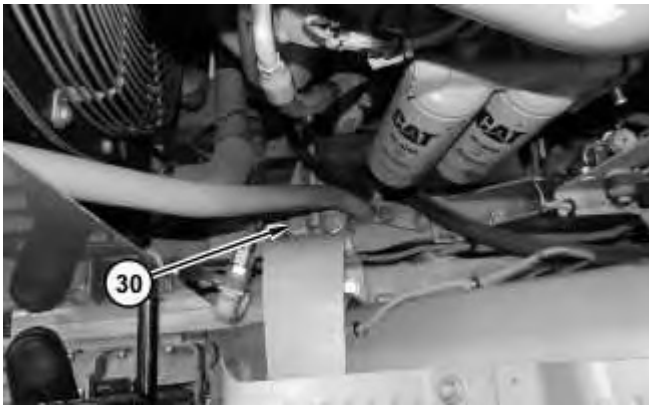


Illustration 12

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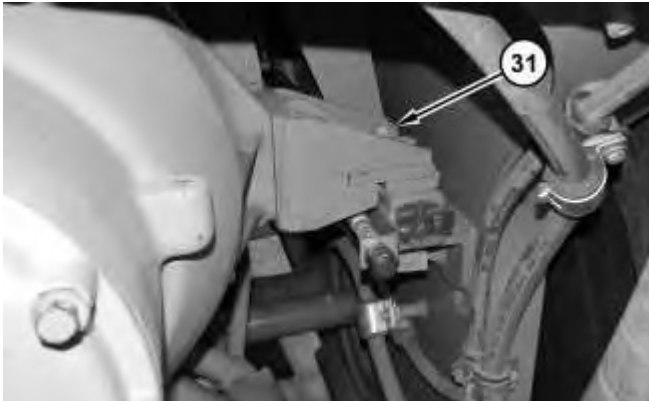


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Illustration 13

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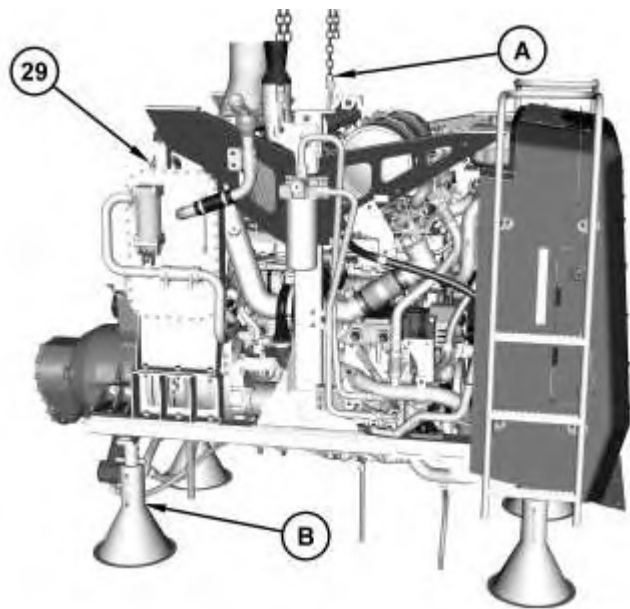
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Illustration 14

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13. Attach Tooling (A) and a suitable lifting device to power pack (29). The weight of power pack (29) is approximately 2268 kg (5000 lb).
  14. Remove bolts (30) and bolts (31). Repeat for the other side.
  15. Remove power pack (29).
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Illustration 15

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16. Use Tooling (A) and a suitable lifting device to position power pack (29) onto Tooling (B).

## Installation Procedure

1. Install power pack (29) in the reverse order of removal.
    - a. Apply Tooling (C) to the O-ring seal for hose assembly (21).
-

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