



Service Repair Manual

Models

992K Wheel Loader

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Product: WHEEL LOADER

Model: 992K WHEEL LOADER RM2

Configuration: 992K Wheel Loader RM200001-UP (MACHINE) POWERED BY C32 Engine

Disassembly and Assembly C27 and C32 Engines for Caterpillar Built Machines

Media Number -REN9217-44

Publication Date -01/07/2015

Date Updated -05/09/2018

i07416326

Rear Power Take-Off (RPTO) - Disassemble

SMCS - 1165-011-RE

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-4073	Spanner Wrench	1
B	1P-0520	Driver Group	1
	6V-3010	Puller Gp	1
	126-7181	Sliding Plate	2
	6V-8336	Bolt	2
	5P-8245	Hard Washer	2
C	5F-7343	Bearing Puller Gp	1

Start By:

- a. Remove the rear power take-off.
-

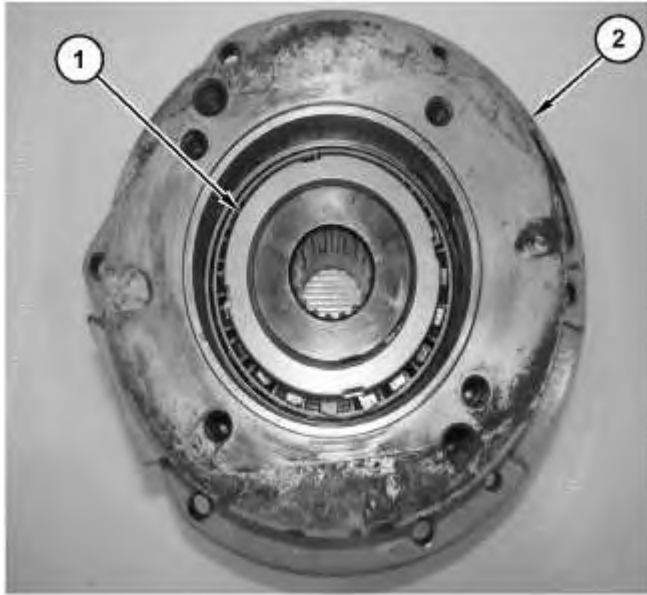


Illustration 1

g06316593

1. Use Tooling (A) to remove nut (1) from adapter (2).

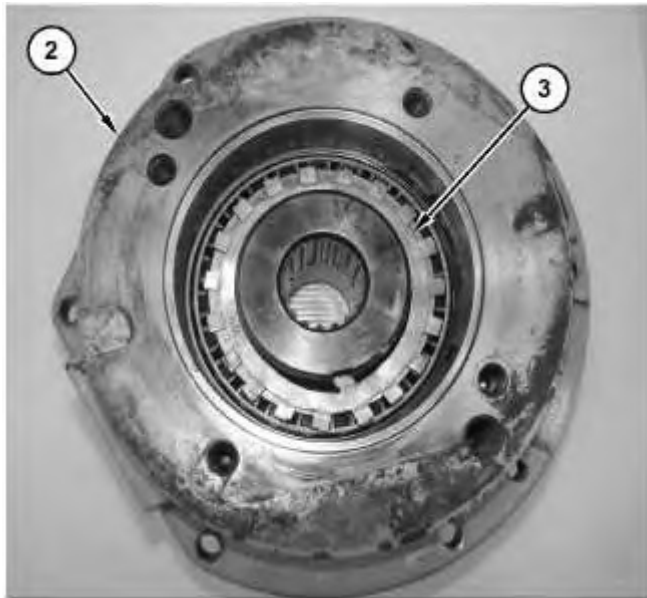


Illustration 2

g06316610

2. Remove bearing locknut (3) from adapter (2).
-

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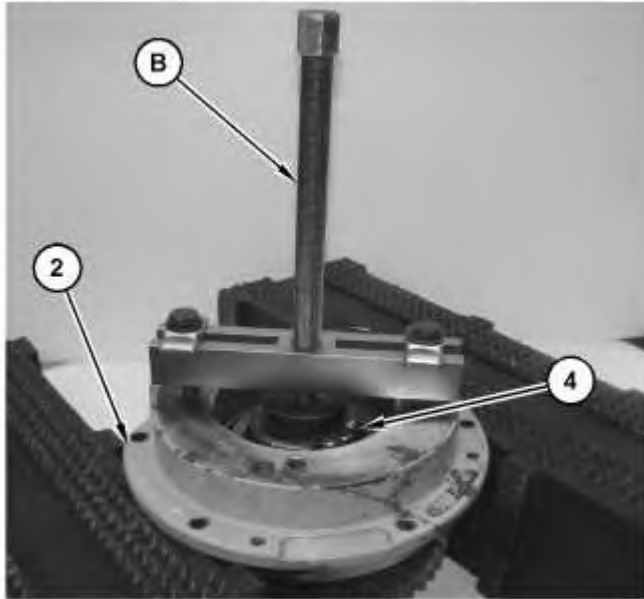


Illustration 3

g06316626

3. Use two people to lift adapter (2) on suitable cribbing.
4. Use Tooling (B) to remove hydraulic pump drive gear (4) from adapter (2).



Illustration 4

g06316856

5. Remove bearing cone (5).

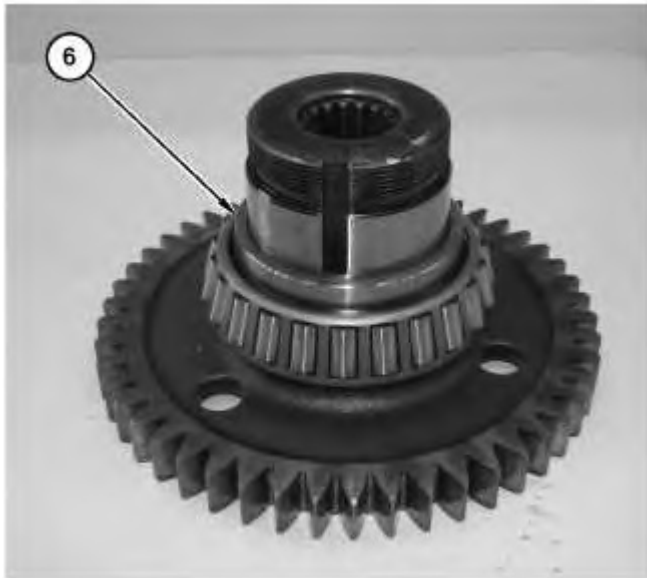


Illustration 5

g06316857

6. Remove bearing cone spacer (6).

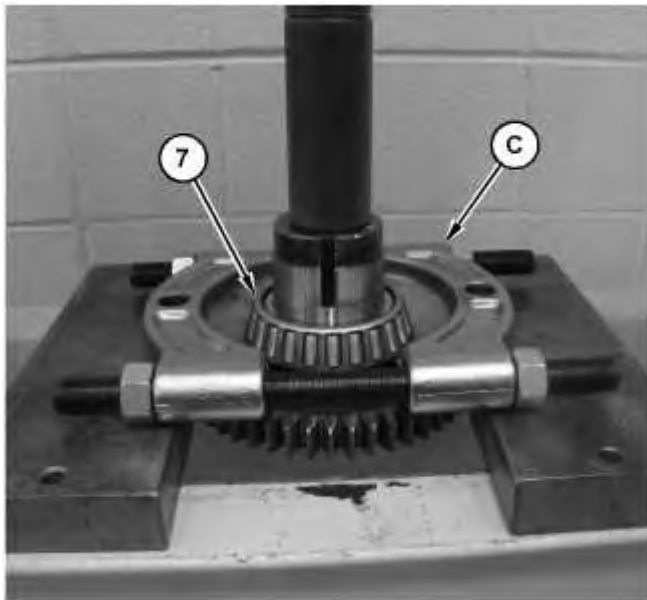


Illustration 6

g06316861

7. Use Tooling (C) and a suitable press to remove bearing cone (7).



Illustration 7

g06316876

8. Remove bolts (8), retainer ring (9), and O-ring (10).



Illustration 8

g06316884

9. Remove bearing cup (11).

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i07416327

Rear Power Take-Off (RPTO) - Assemble

SMCS - 1165-016-RE

Assembly Procedure

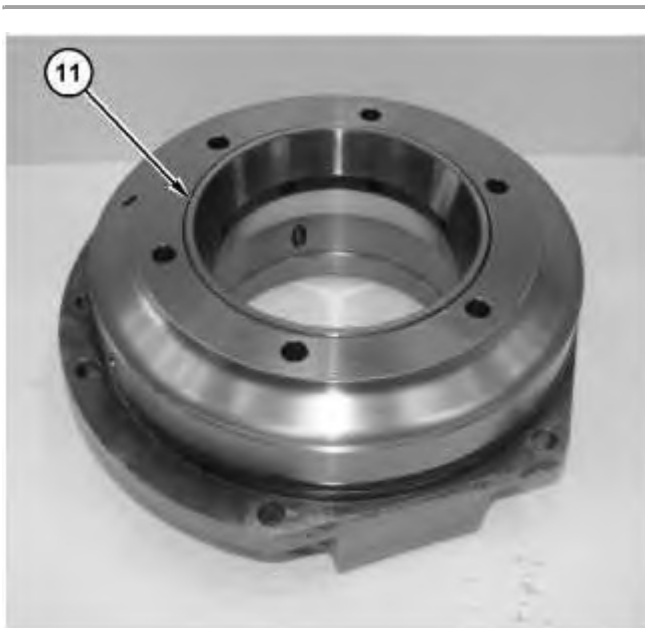


Illustration 1

g06316884

1. Lower the temperature of bearing cup (11). Install bearing cup (11).



Illustration 2

g06316876

Note: Lubricate O-ring bore and seal lightly with lubricant being sealed.

2. Install O-ring (10)
 3. Install retaining ring (9) and bolts (8).
-

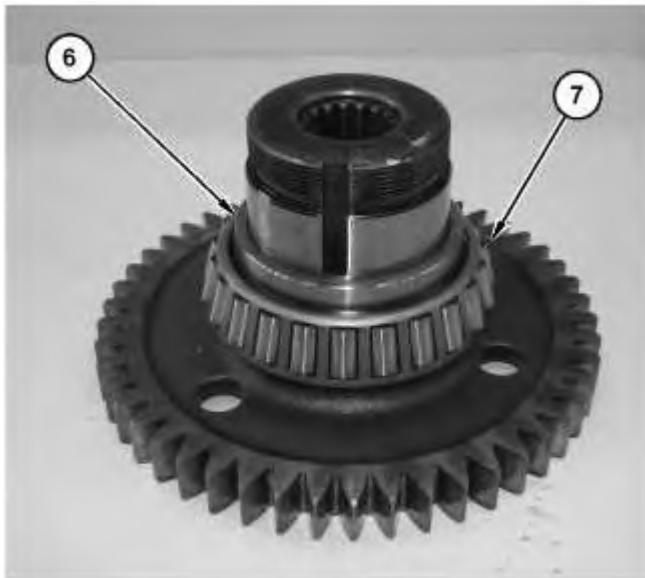


Illustration 3

g06317051

4. Raise the temperature of bearing cone (7). Install bearing cone (7).
 5. Install cone spacer (6).
-

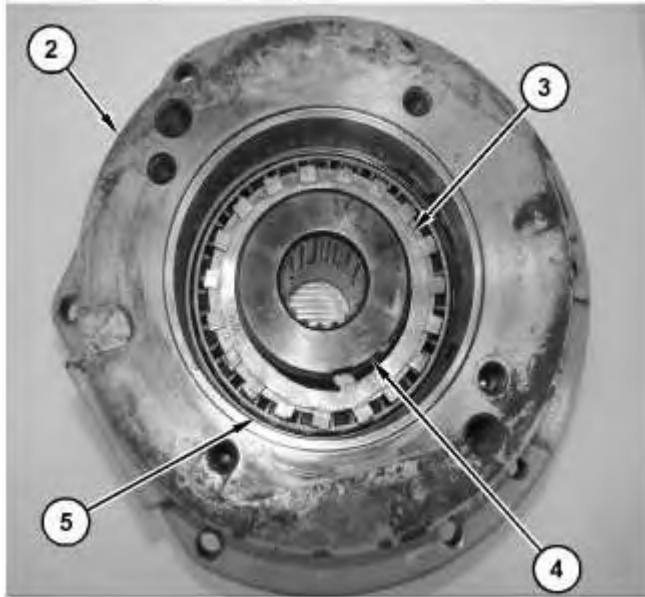


Illustration 4

g06317079

6. Use two people to lift adapter (2) onto hydraulic pump drive gear (4).
7. Raise the temperature of bearing cup (5). Install bearing cup (5) on hydraulic pump drive gear (4).
8. Install bearing locknut (3).



Illustration 5

g06317090

9. Install nut (1) loosely.

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i02291930

Rear Power Take-Off (RPTO) - Install

SMCS - 1165-012-RE

S/N - DLT1-UP

S/N - EHX1-UP

S/N - FZS1-UP

S/N - HPE1-UP

S/N - JA41-UP

S/N - JHM1-UP

S/N - LJW1-UP

S/N - LJX1-UP

S/N - MJX1-UP

S/N - MZM1-UP

S/N - NZG1-UP

S/N - NZK1-UP

S/N - NZT1-UP

S/N - PZB1-UP

S/N - TC91-UP

S/N - TZB1-UP

S/N - TZR1-UP

S/N - WZH1-UP

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-4073	Spanner Wrench	1
B	138-7574	Link Bracket	1

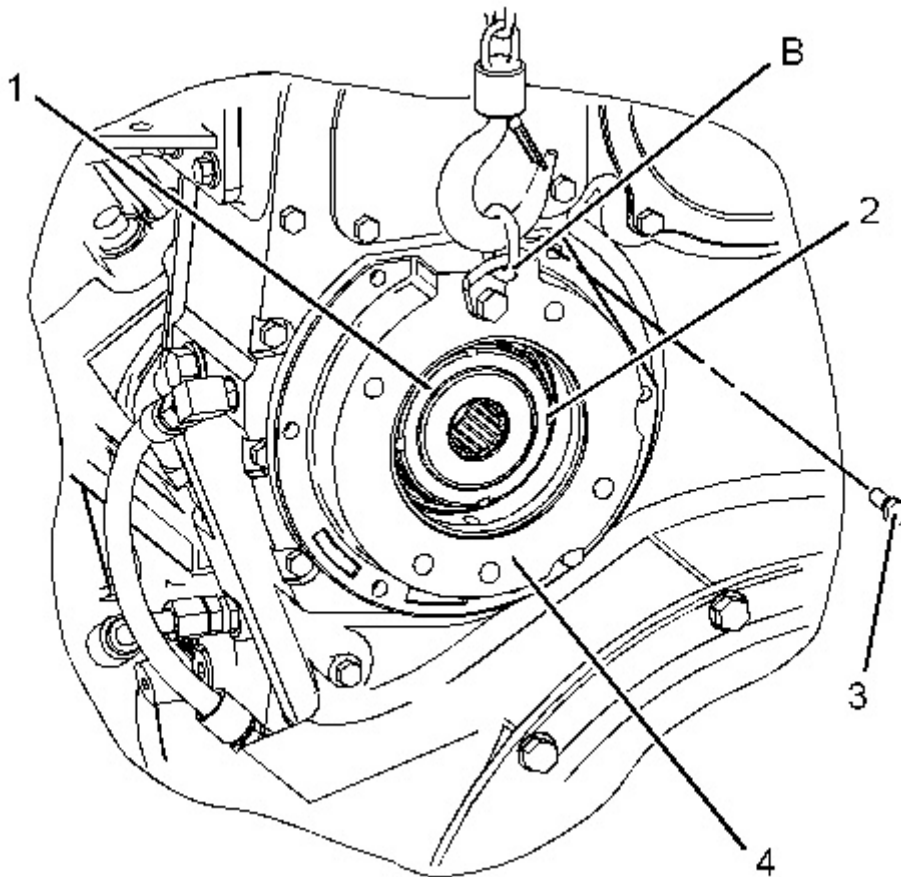


Illustration 1

g01151575

1. Attach Tooling (B) and a suitable lifting device to pump drive (4). The weight of pump drive (4) is approximately 32 kg (70 lb). Install pump drive (4).
2. Install bolts (3) and nut (1). Use Tooling (A) in order to tighten nut (1). Tighten nut (1) to a torque of 406 ± 68 N·m (299 ± 50 lb ft). Bend the locking tabs on lock (2) onto the slots of nut (1).

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i03569332

Vibration Damper and Pulley - Remove and Install - Type 1

SMCS - 1205-010

S/N - DLT1-UP

S/N - EHX1-UP

S/N - FZS1-UP

S/N - HPE1-UP

S/N - JA41-UP

S/N - JHM1-UP

S/N - LJW1-UP

S/N - LJX1-UP

S/N - MJX1-UP

S/N - MZM1-UP

S/N - NZG1-UP

S/N - NZK1-UP

S/N - NZT1-UP

S/N - PZB1-UP

S/N - TC91-UP

S/N - TZB1-UP

S/N - WZH1-UP

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud 1/2 - 13 NC by 3 inch	2

1. Remove the belt from the engine.

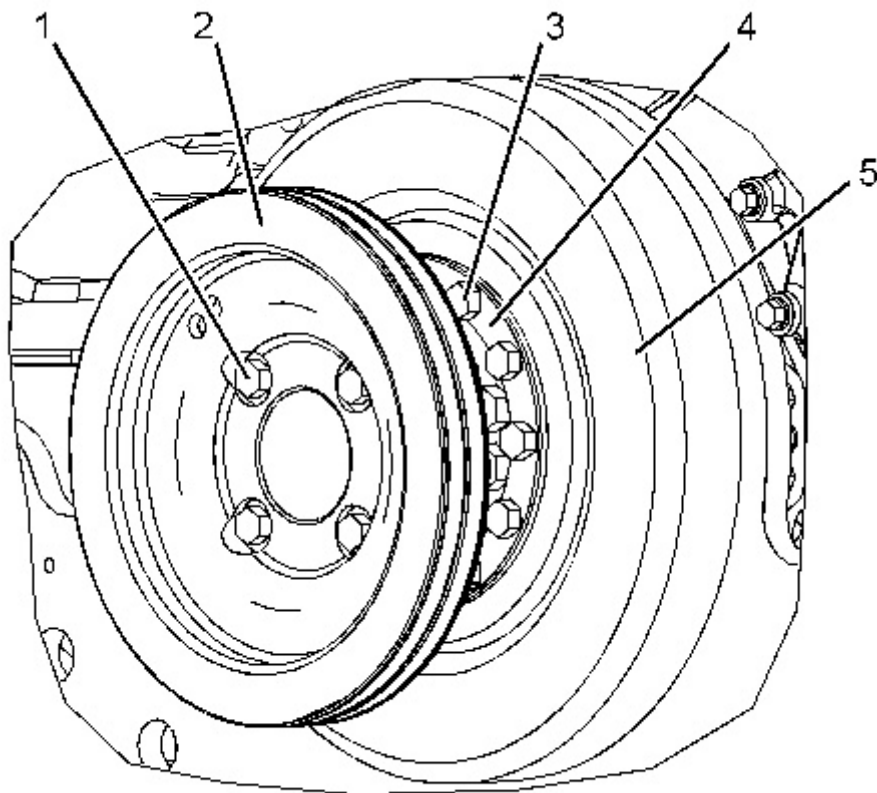


Illustration 1

g01147370

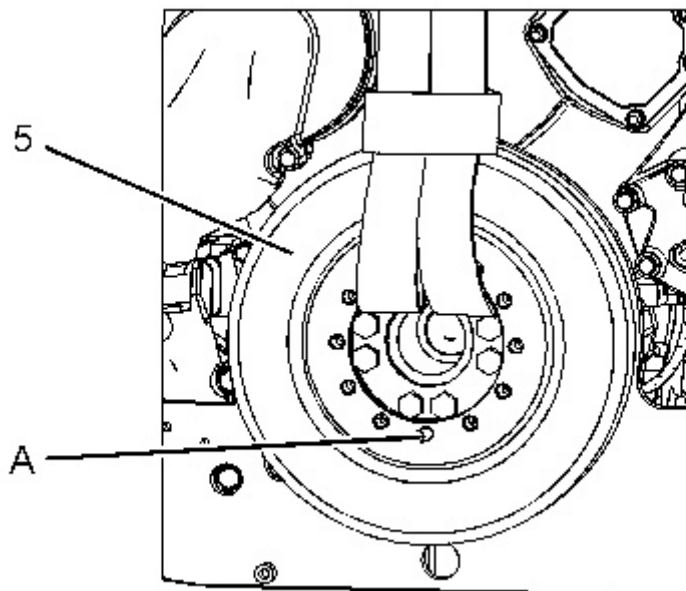


Illustration 2

g01147374

2. Remove bolts (1) and pulley (2) .
3. Remove two bolts (3) and install Tooling (A) .
4. Remove remaining bolts (3) and spacer (4) .
5. Attach a suitable lifting device onto vibration damper (5) . The weight of vibration damper (5) is approximately 34 kg (75 lb). Remove vibration damper (5) from the adapter.

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud 1/2 - 13 NC by 3 inch	2

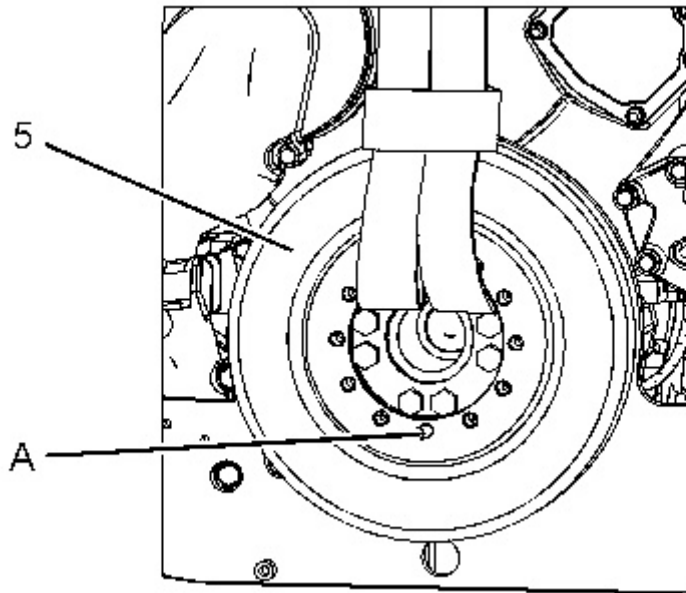


Illustration 3

g01147374

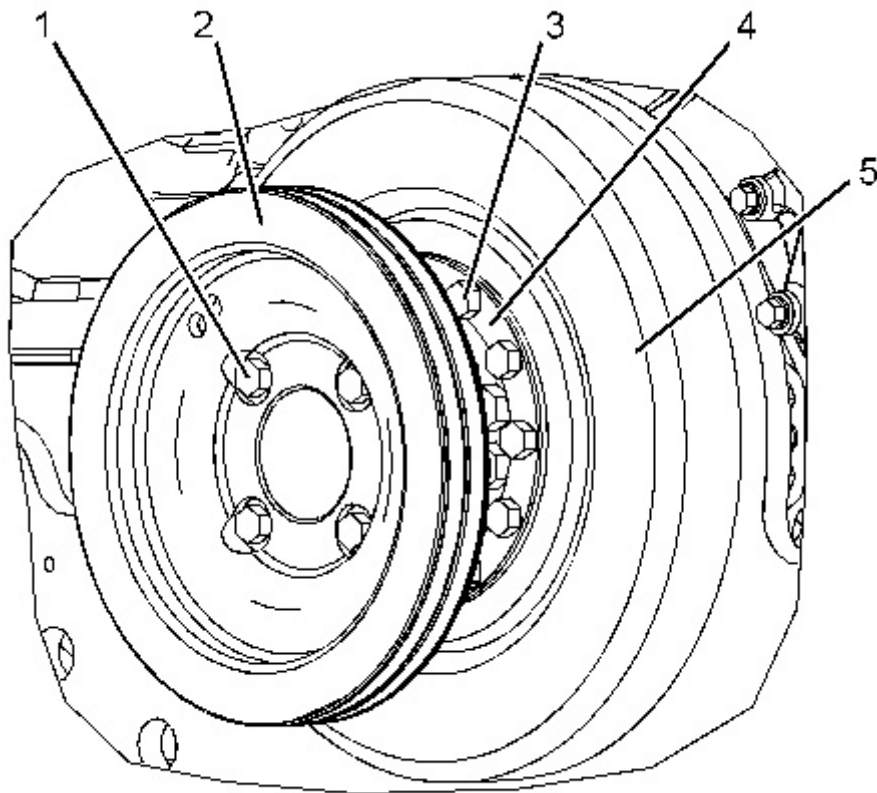


Illustration 4

g01147370

1. Install Tooling (A) in the adapter.

2. Attach a suitable lifting device onto vibration damper (5) . The weight of vibration damper (5) is approximately 34 kg (75 lb). Position vibration damper (5) on the adapter.
3. Install spacer (4) and bolts (3) . Remove Tooling (A) .
4. Install remaining bolts (3) . Tighten bolts (3) to a torque of 135 ± 20 N·m (100 ± 15 lb ft).
5. Install pulley (2) and bolts (1) .
6. Install the belt on the engine.

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i03569336

Vibration Damper and Pulley - Remove and Install - Type 2

SMCS - 1205-010

S/N - DLT1-UP

S/N - EHX1-UP

S/N - FZS1-UP

S/N - HPE1-UP

S/N - JA41-UP

S/N - JHM1-UP

S/N - LJW1-UP

S/N - LJX1-UP

S/N - MJX1-UP

S/N - MZM1-UP

S/N - NZG1-UP

S/N - NZK1-UP

S/N - NZT1-UP

S/N - PZB1-UP

S/N - TC91-UP

S/N - TZB1-UP

S/N - WZH1-UP

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud 1/2 - 13 NC by 6 inch	2

1. Remove the belt from the engine. Refer to Operation and Maintenance Manual, "Belts - Inspect/Adjust/Replace".

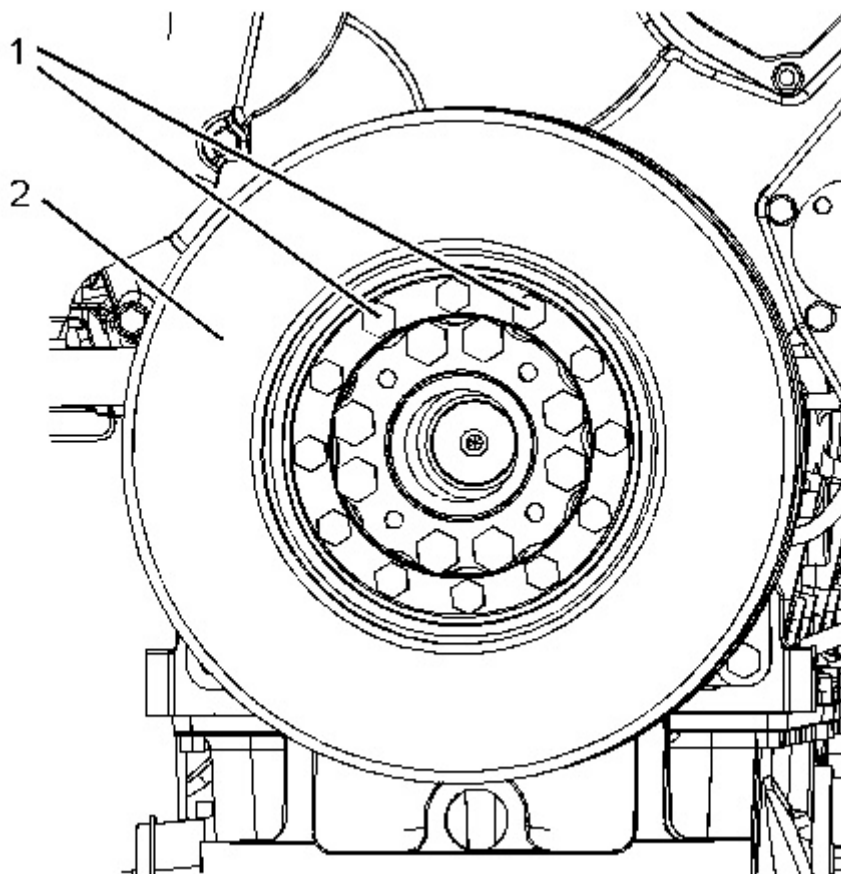


Illustration 1

g01524010

2. Remove bolts (1) and install Tooling (A) .
3. Remove remaining bolts (1) and the spacer.

4. Slide first vibration damper (2) forward. Attach a suitable lifting device onto first vibration damper (2) . The weight of vibration damper (2) is approximately 34 kg (75 lb). Remove first vibration damper (2) from the adapter.
5. Remove the pulley.

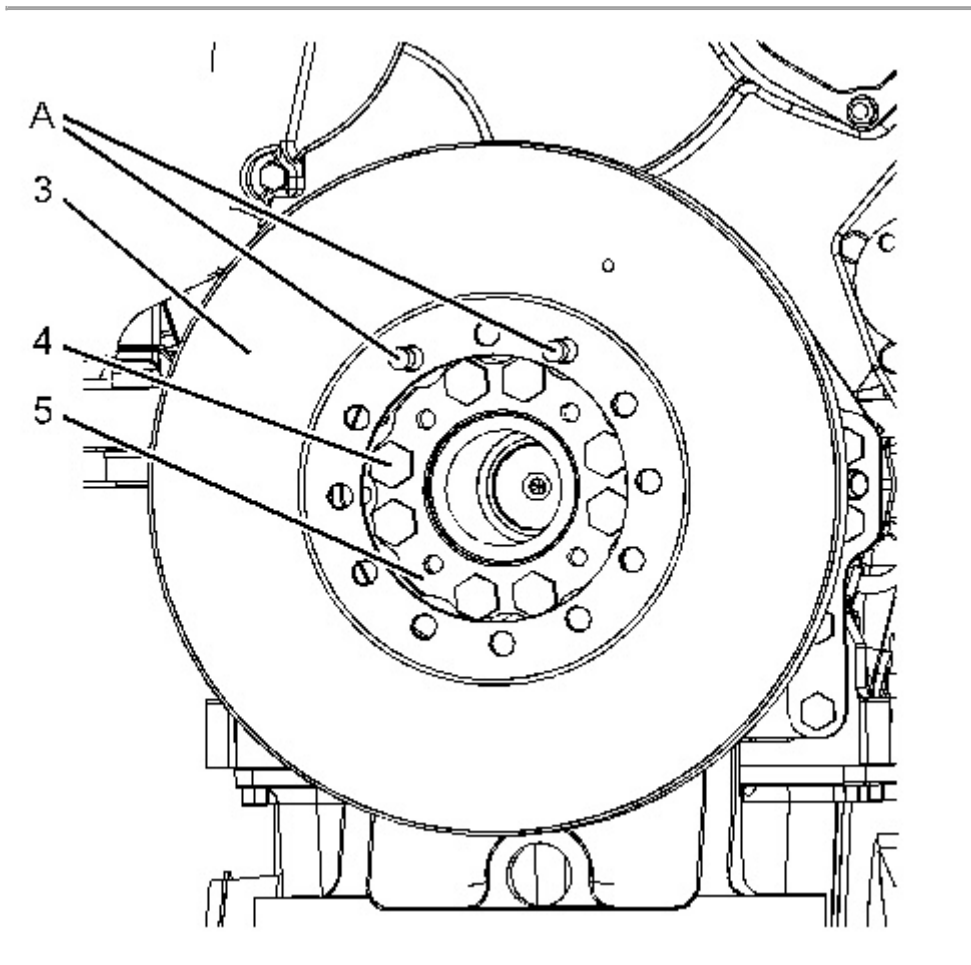


Illustration 2

g01524015

6. Slide second vibration damper (3) forward. Attach a suitable lifting device onto second vibration damper (3) . The weight of vibration damper (3) is approximately 34 kg (75 lb). Remove second vibration damper (3) from adapter (5) .
7. Attach a suitable lifting device onto adapter (5) . The weight of adapter (5) is approximately 25 kg (55 lb). Remove bolts (4) and adapter (5) .

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud 1/2 - 13 NC by 6 inch	2

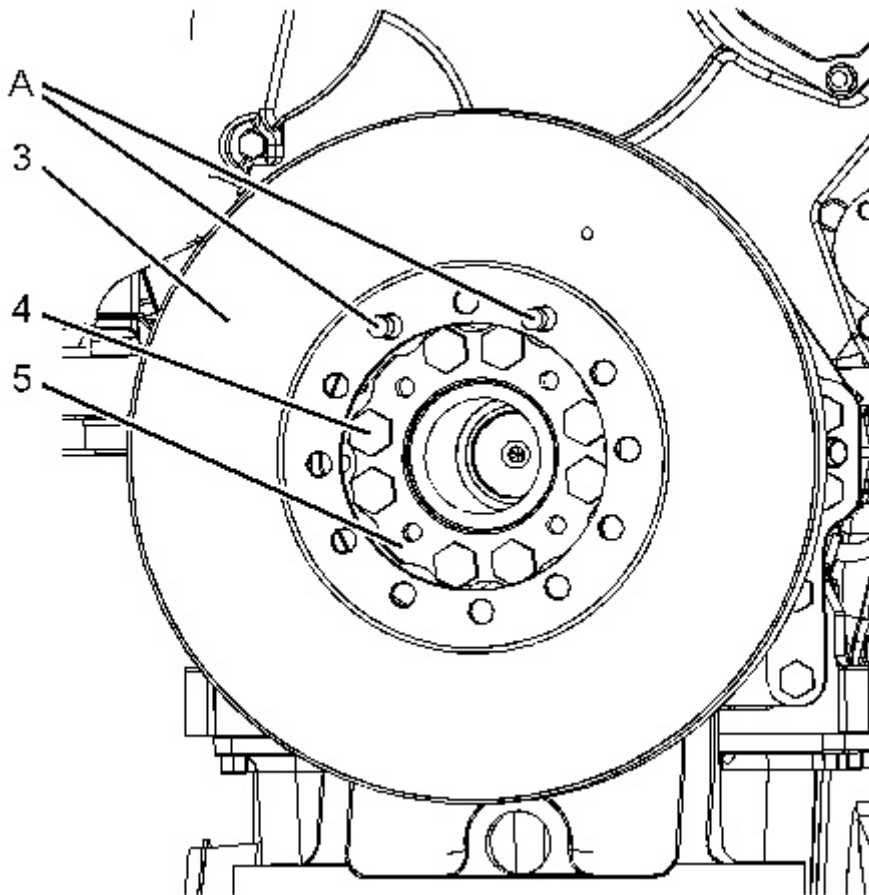


Illustration 3

g01524015

1. Attach a suitable lifting device to adapter (5) . The weight of adapter (5) is approximately 25 kg (55 lb). Install adapter (5) and bolts (4) .
 2. Install Tooling (A) in adapter (5) .
 3. Attach a suitable lifting device onto second vibration damper (3) . The weight of vibration damper (3) is approximately 34 kg (75 lb). Position second vibration damper (3) on adapter (5) .
 4. Install the pulley.
-

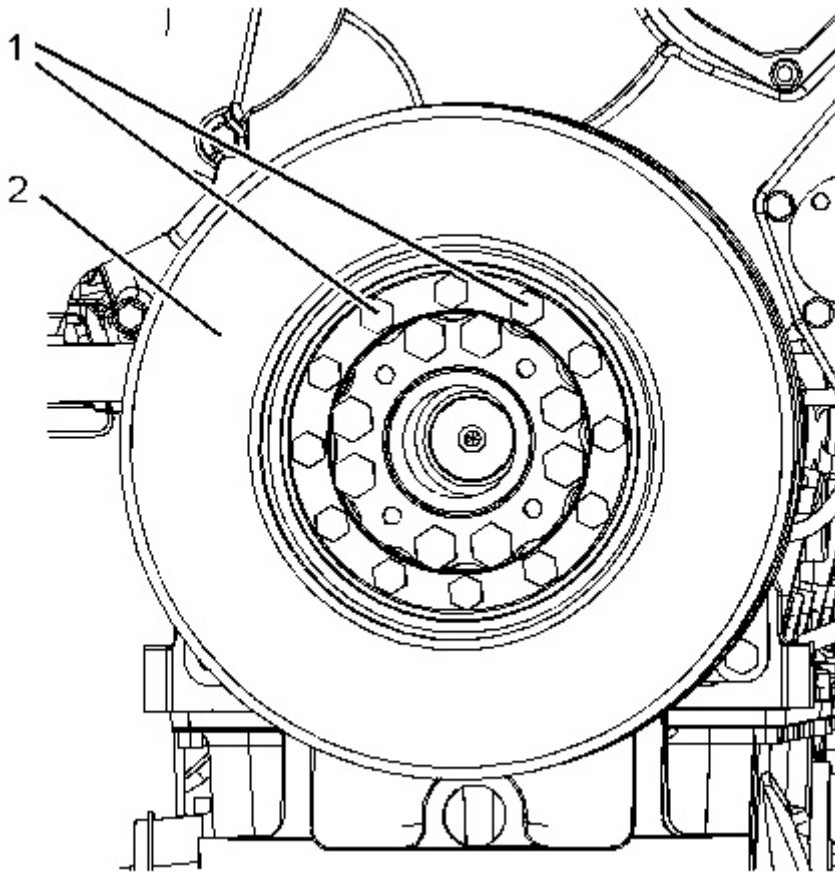


Illustration 4

g01524010

5. Attach a suitable lifting device onto first vibration damper (2) . The weight of vibration damper (2) is approximately 34 kg (75 lb). Position first vibration damper (2) on the adapter.
6. Install the spacer and bolts (1) . Remove Tooling (A) and install remaining bolts (1) . Tighten bolts (1) to a torque of 135 ± 20 N·m (100 ± 15 lb ft).
7. Install the belt on the engine. Refer to Operation and Maintenance Manual, "Belts - Inspect/Adjust/Replace".

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i02986918

Crankshaft Front Seal - Remove

SMCS - 1160-011

S/N - DLT1-UP

S/N - EHX1-UP

S/N - FZS1-UP

S/N - HPE1-UP

S/N - JA41-UP

S/N - JHM1-UP

S/N - LJW1-UP

S/N - LJX1-UP

S/N - MJX1-UP

S/N - MZM1-UP

S/N - NZG1-UP

S/N - NZK1-UP

S/N - NZT1-UP

S/N - PZB1-UP

S/N - TC91-UP

S/N - TZB1-UP

S/N - TZR1-UP

S/N - WZH1-UP

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7600	Slide Hammer Puller	1
B	-	Pry Bar	1
C	5P-7312	Seal Distorter	1
D	5P-7314	Distorter Ring	1

Start By:

- a. Remove the crankshaft vibration damper and pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



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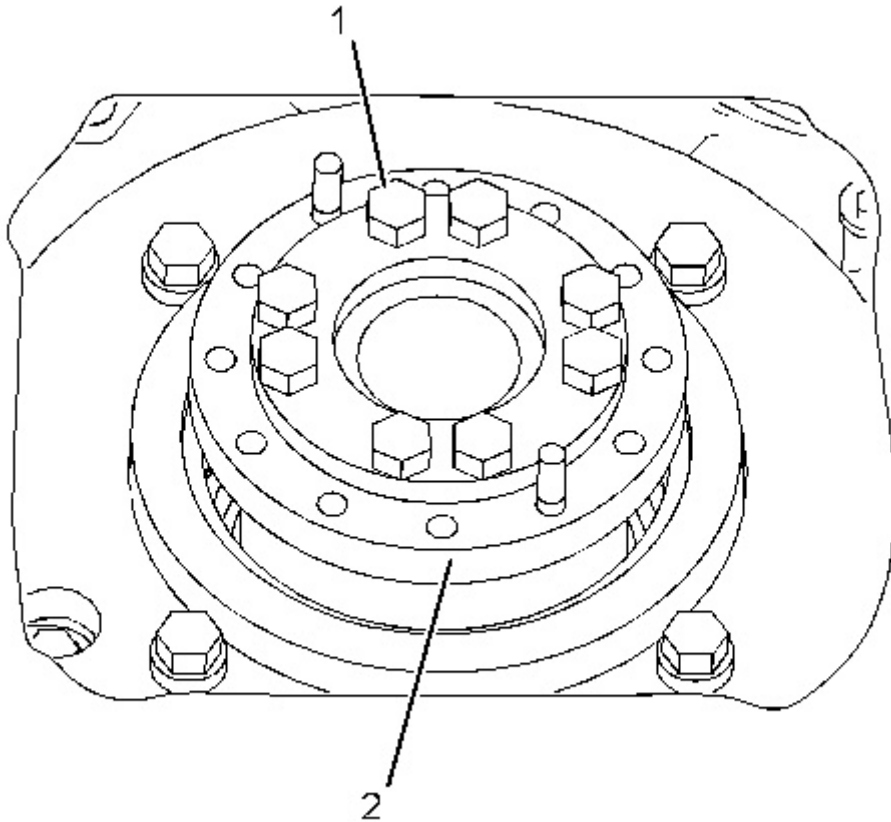


Illustration 1

g01098057

1. Remove bolts (1) and adapter (2).

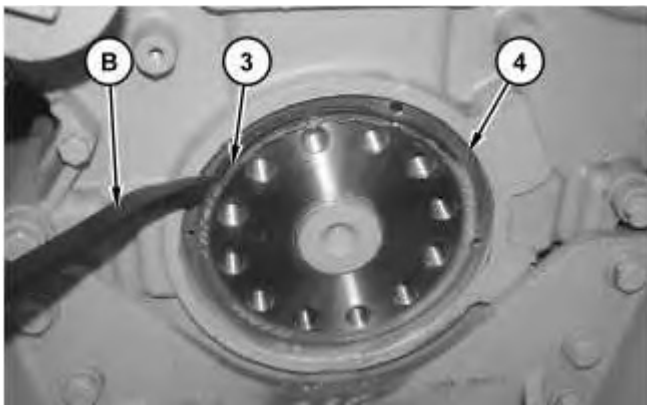


Illustration 2

g01513439

Note: Ensure that you do not damage the front housing with Tooling (B).

Note: If the crankshaft wear sleeve starts to slide off the crankshaft, go to Step 3.

2. Use Tooling (B) to pry around the lip of crankshaft wear sleeve (3).
3. Use Tooling (A) to puncture three or more holes in crankshaft front seal (4).

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