

Product: TRACK-TYPE TRACTOR

Model: D6M TRACK-TYPE TRACTOR 5NR

Configuration: D6M XL & D6M LGP TRACTORS / POWERSHIFT / 5NR00001-UP (MACHINE) POWERED BY 3116 ENGINE

## Disassembly and Assembly D6M Track-Type Tractor Power Train

Media Number -SEN8387-06

Publication Date -01/11/2010

Date Updated -31/07/2018

i00964324

# Transmission and Bevel Gears - Separate

SMCS - 3010-076

## Separation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	138-7575	Link Bracket	2

### Start By:

- Remove the transmission and the bevel gears. Refer to Disassembly and Assembly, "Transmission and Bevel Gears - Remove".
- Remove the transmission hydraulic control valves. Refer to Disassembly and Assembly, "Transmission Hydraulic Control Valve - Remove".



1. Put the transmission and the bevel gears into position on Tooling (A).
2. Fasten a suitable lifting device and Tooling (B) to bevel gears (1).
3. Remove three bolts (2). Remove the bevel gears from the transmission. The weight of the bevel gears is 215 kg (475.0 lb).

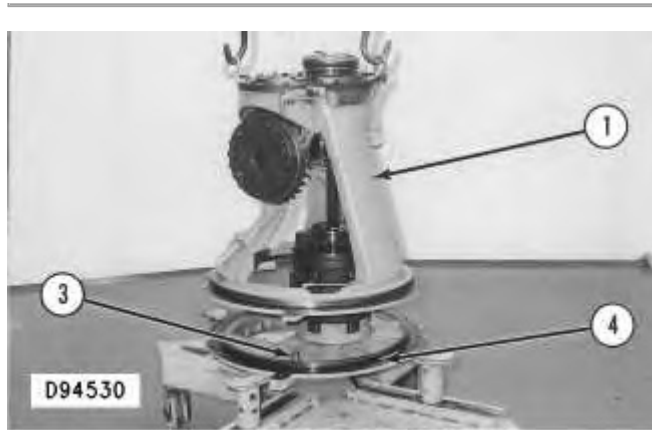


Illustration 2

4. Remove O-ring seal (4) from the transmission.
  5. Remove sleeve (3) from the transmission and remove the O-ring seal from the sleeve.
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## Disassembly and Assembly D6M Track-Type Tractor Power Train

Media Number -SEN8387-06

Publication Date -01/11/2010

Date Updated -31/07/2018

i00963856

# Bevel and Transfer Gears - Disassemble

SMCS - 3011-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	5F-7343	Bearing Puller Attachment	1
B	8T-2839	Spanner Wrench	1
C	2P-8312	External Retaining Ring Pliers	1

### Start By:

- a. Separate the transmission and the bevel gears. Refer to Disassembly and Assembly, "Transmission and Bevel Gears - Separate".

**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Dirt and contaminants can damage the components. All disassembly and assembly procedures must be performed on a clean work surface. Clean all the interior components in clean solvent. Dry all the interior components with compressed air. Plug ports and plug hoses on the machine during repair.

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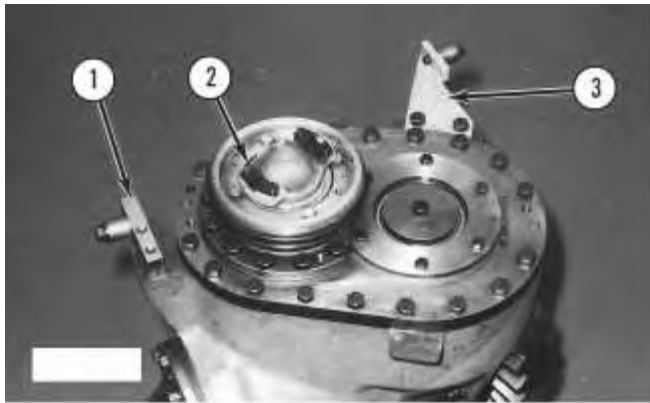


Illustration 1

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1. Remove bracket assemblies (1) and (3) from the bevel gear case. Remove the two magnetic sensors (not shown) from bevel gear case.
2. Remove yoke (2).



Illustration 2

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3. Remove four bolts (4). Install two 10 mm forcing screws in the carrier in order to free the carrier (5). Tighten the screws evenly and remove the carrier.
4. Remove O-ring seal (6) from carrier (5).



Illustration 3

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5. Remove bolts (7). Install two 12 mm forcing screws in the cage in order to free the cage (8). Tighten the screws evenly and remove cage (8) and shims (9).

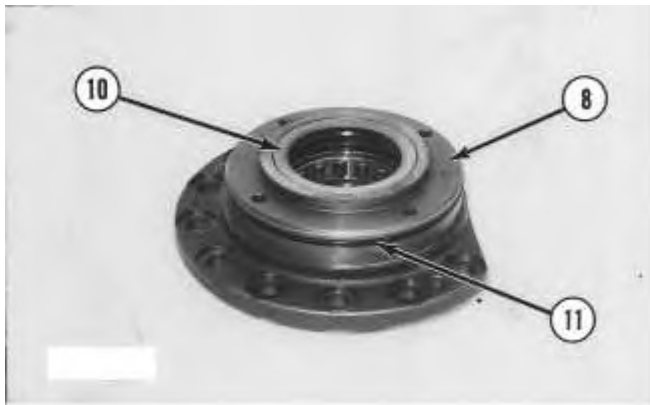


Illustration 4

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6. Remove seal (10) and O-ring seal (11) from cage (8).



Illustration 5

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7. If necessary, remove bearing cup (12) and bearing (13) from cage (8).

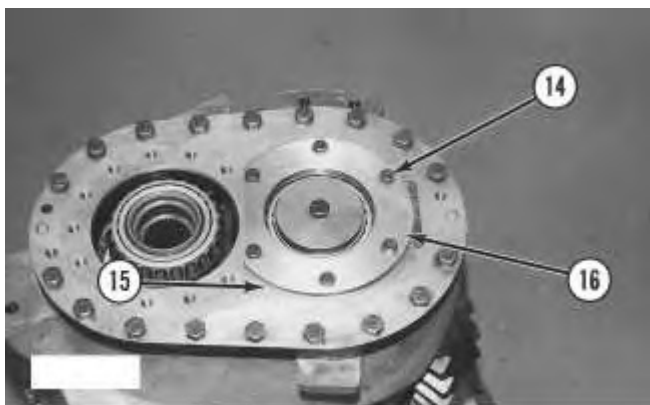


Illustration 6

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8. Remove bolts (14). Remove cover (16). Remove shims (15).

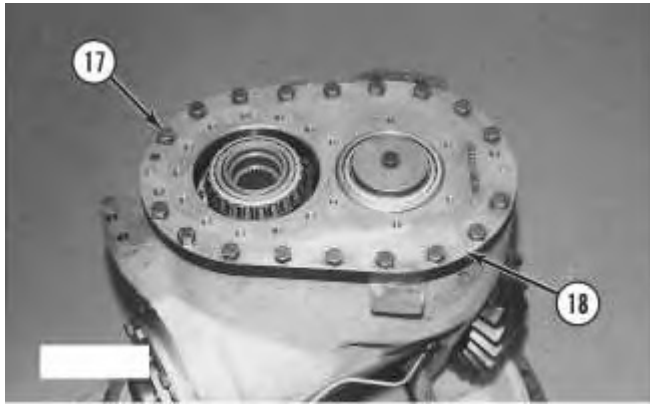


Illustration 7

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9. Remove bolts (17). Install two 12 mm forcing screws in the cover in order to free the cover (18). Tighten the screws evenly and remove the cover.

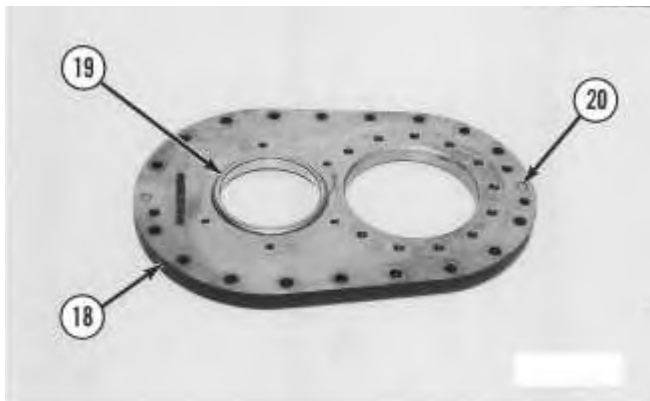


Illustration 8

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10. If necessary, remove dowels (20) and remove bearing cup (19) from cover (18).



Illustration 9

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**Note:** Gears (22) and (23) must be removed from the case assembly at the same time.

11. Remove gear (22) and gear (23) from the case assembly.

12. Remove the bolt and retainer (21) from the gear.

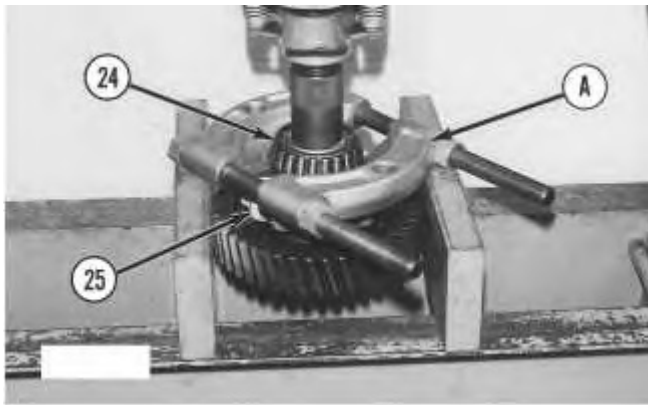


Illustration 10

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13. Use a press and Tooling (A) to remove bearing cone (24) from pinion (25).

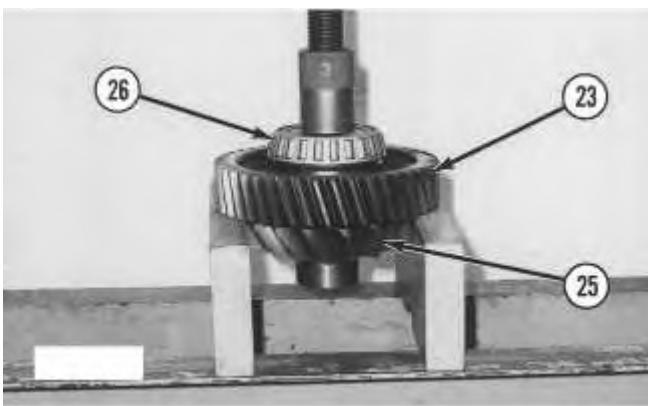


Illustration 11

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14. Use a press in order to remove bearing cone (26) and pinion (25) from gears (23).

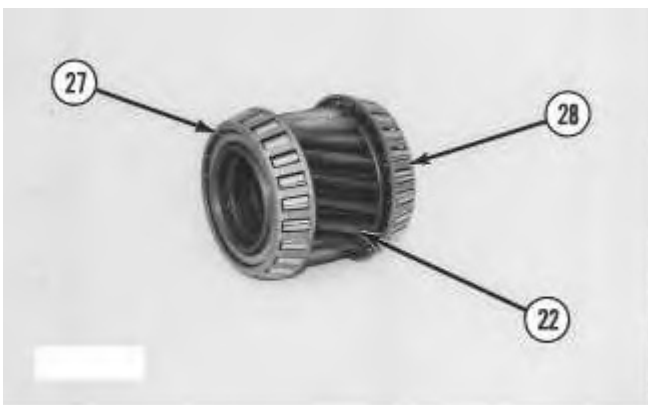


Illustration 12

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