

Product: ARTICULATED TRUCK

Model: 730 ARTICULATED TRUCK B1M

Configuration: 730 Articulated Truck B1M00001-UP (MACHINE) POWERED BY C11 Engine

Disassembly and Assembly

725, 730 and 730 EJECTOR Articulated Trucks Power Train

Media Number -REN3448-14

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i04745120

Torque Converter - Disassemble

SMCS - 3101-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	3
B	-	M12 Guide Bolts	3
C	1P-0510	Driver Gp	1
D	8T-4182	Bolt	2
E	1P-1863	Retaining Ring Pliers	1
F	8B-7551	Bearing Puller Gp	1

Start By:

- A. Separate the torque converter housing from the planetary transmission. Refer to Disassembly and Assembly, "Torque Converter Housing - Remove".



WARNING

Personal injury or death can result from improper lifting or blocking.

When a hoist or jack is used to lift any part or component, stand clear of the area. Be sure the hoist or jack has the correct capacity to lift a

component. Install blocks or stands before performance of any work under a heavy component.

Approximate weights of the components are shown. Clean all surfaces where parts are to be installed.

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Place identification marks on all parts for assembly purposes.

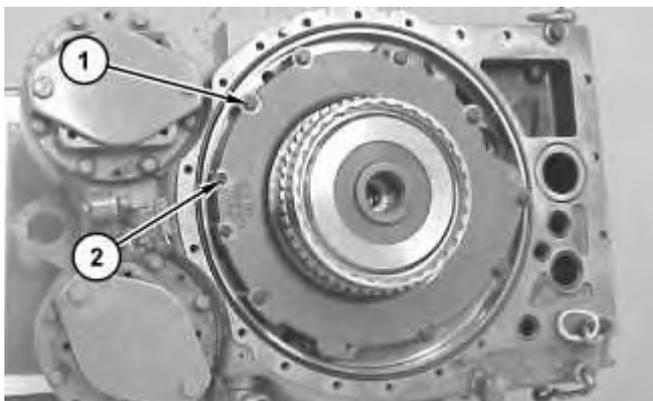


Illustration 1

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1. Remove bolts (1) and allen head screws (2) that secure the retarder in position.

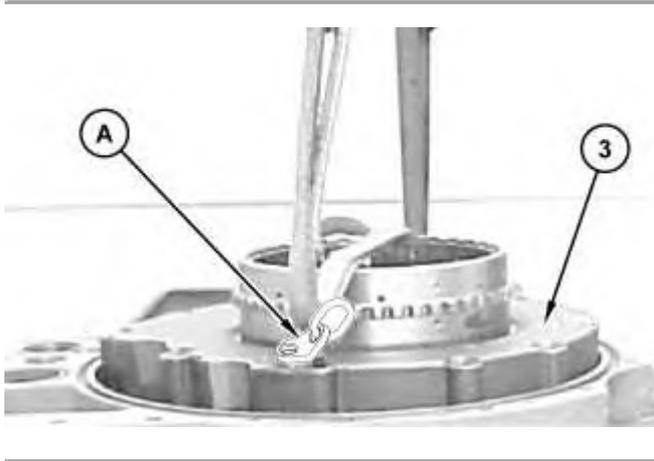


Illustration 2

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2. Use Tooling (A) and a suitable lifting device to remove retarder (3) from the center shaft of the torque converter. The weight of retarder (3) is approximately 48 kg (105 lb).



Illustration 3

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3. Remove allen head screws (4) and the washers from the torque converter housing.
-

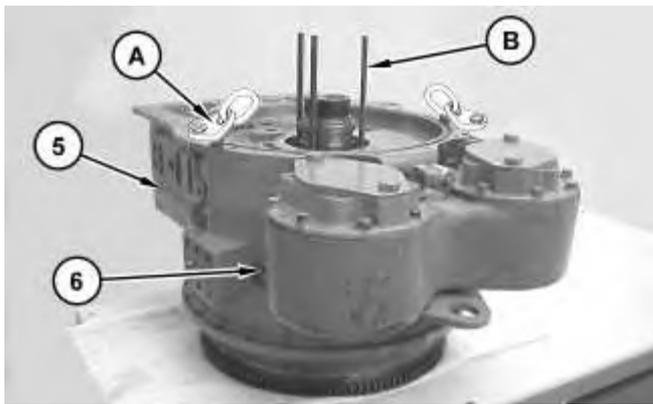


Illustration 4

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4. Remove bolts (6) from torque converter housing (5) in order to release the separator plate.
5. Attach Tooling (A) and a suitable lifting device to the carrier assembly. Install Tooling (B) to the torque converter housing (5) .
6. Use Tooling (A) and the suitable lifting device to raise torque converter housing (5) approximately 5 mm (0.197 inch) from the torque converter. The weight of torque converter housing (5) is approximately 159 kg (350 lb).

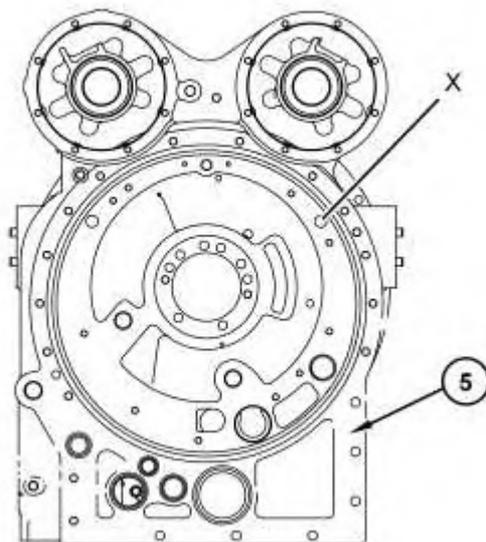


Illustration 5

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Note: Insert the soft drift into hole (X) .

7. Use a hammer and a suitable soft drift to tap the separator plate from torque converter housing (5) . This will enable the separator plate to remain with the torque converter.

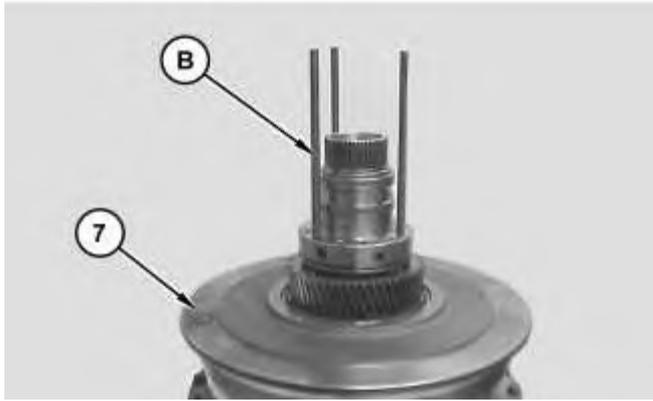


Illustration 6

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8. Remove separator plate (7) from the torque converter assembly. Remove Tooling (B) from the carrier assembly.

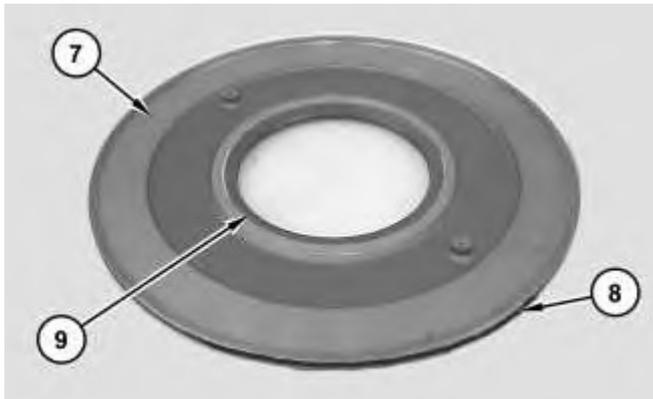
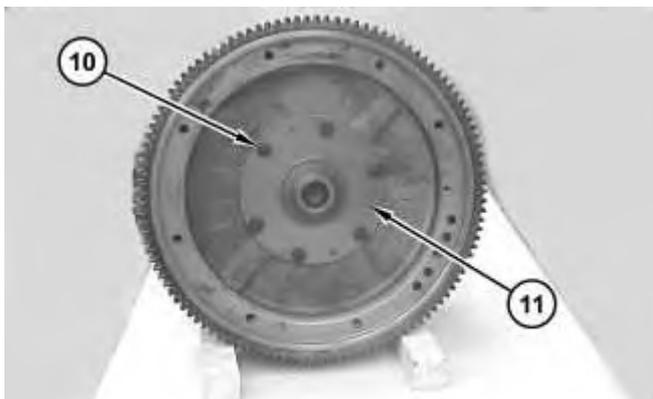


Illustration 7

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9. Remove O-ring seal (8) from the outside diameter of separator plate (7) .
10. Use Tooling (C) to remove seal (9) from separator plate (7) .



11. Remove bolts (10) that secure flywheel pilot (11) .

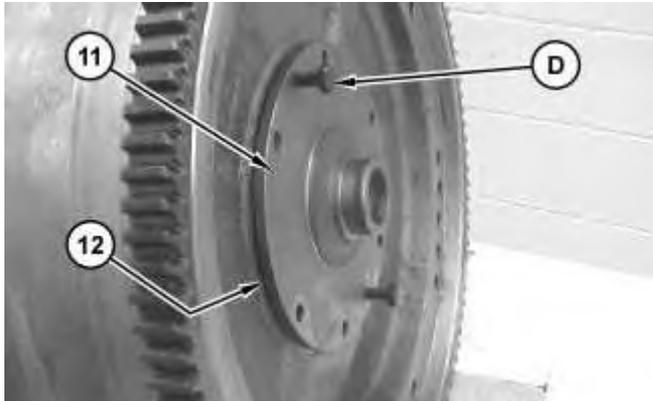


Illustration 9

12. Install Tooling (D) in order to remove flywheel pilot (11) and O-ring seal (12) .

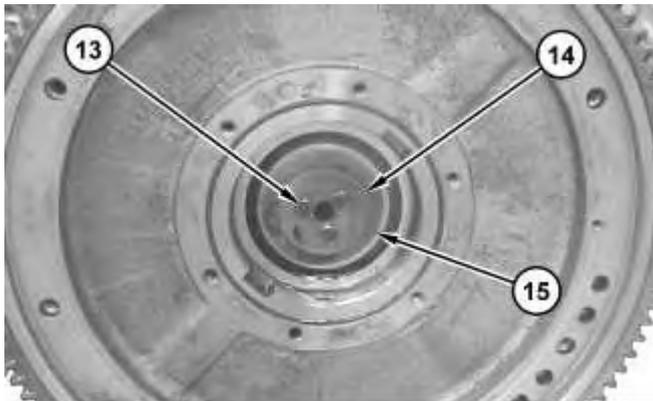


Illustration 10

13. Remove bolts (13) , retainer (14) , and washer (15) .
-



Illustration 11

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- Carefully remove center shaft (16) from the center of the carrier. Remove bearing half (17) .



Illustration 12

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- Remove rings (18) from center shaft (16) .

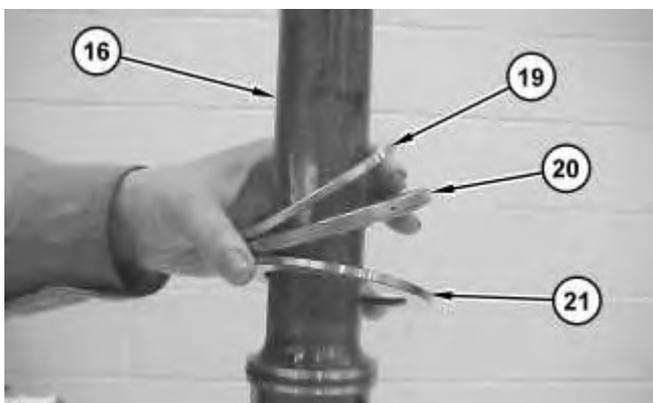


Illustration 13

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- Remove race (19) , bearing (20) , and race (21) from center shaft (16) .

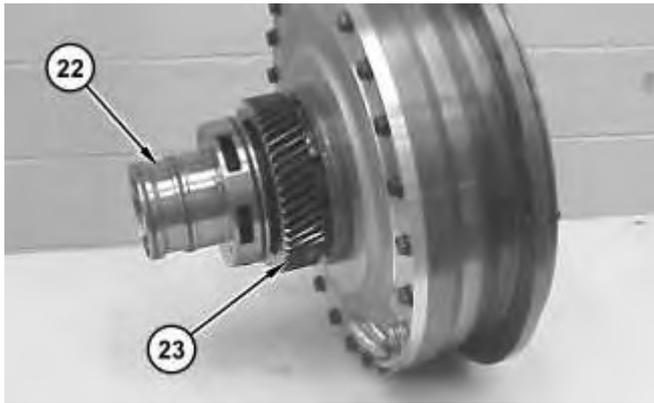


Illustration 14

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17. Remove carrier assembly (22) from gear (23) and the torque converter assembly.



Illustration 15

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18. Use Tooling (E) to remove retaining ring (24) from the groove of carrier assembly (22) .





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