



Service Repair Manual

Models

M312 Excavator

Product: EXCAVATOR

Model: M312 EXCAVATOR 6TL

Configuration: M312 Excavator 6TL00001-00409 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly M312 and M315 Excavators Machine Systems Supplement

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i03484220

Swing Drive - Disassemble

SMCS - 5459-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	2
B	1P-0510	Driver Gp	1
C	1U-8759	Retaining Ring Pliers	1
D	5P-4758	Retaining Ring Pliers	1
E	1P-1859	Retaining Ring Pliers	1
F	1P-1855	Retaining Ring Pliers	1
G	156-7100	Puller	1
H	1P-1863	Retaining Ring Pliers	1
J	305-4538	Spanner Socket ⁽¹⁾	1
	240-8274	Insert ⁽²⁾	1
	174-9465	Spanner Socket ⁽³⁾	1
K	1P-0520	Driver Gp	1

⁽¹⁾ Used on the part number **152-7372** Swing Drive Gp

⁽²⁾ Used on the part number **152-7372** Swing Drive Gp

⁽³⁾ Used on the part number **152-7375** Swing Drive Gp

Start By:

- a. Remove the swing drive. Refer to Disassembly and Assembly, "Swing Drive - Remove".

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.

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent contaminants from entering the internal mechanism.



Illustration 1

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1. Attach Tooling (A) and a suitable lifting device to swing brake assembly (2). The weight of swing brake assembly (2) is approximately 75 kg (165 lb).
 2. Note the orientation of swing brake assembly (2) for assembly purposes.
 3. Remove bolts (1). Remove swing brake assembly (2).
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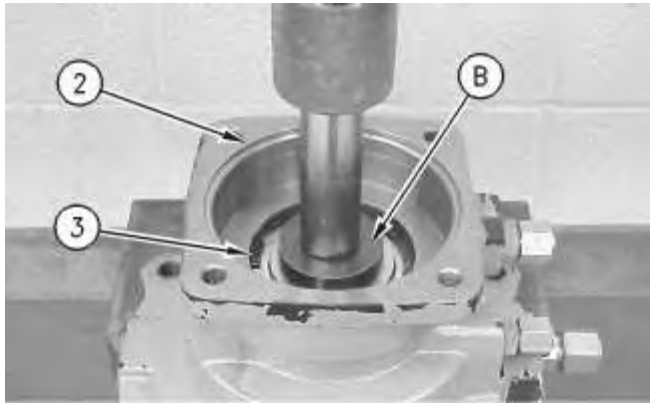


Illustration 2

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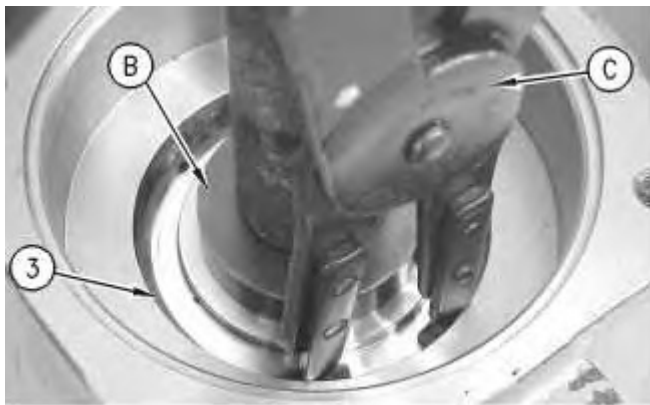


Illustration 3

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WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

-
4. Position swing brake assembly (2) in a suitable press.
 5. Use Tooling (B) and a suitable press to relieve tension on retaining ring (3). Use Tooling (C) to remove retaining ring (3).
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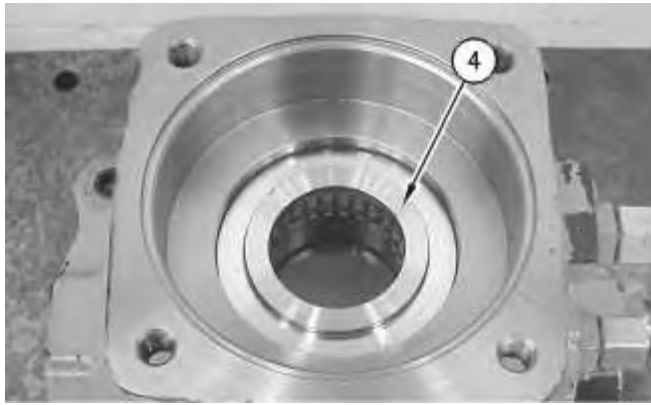


Illustration 4

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6. Remove plate (4).

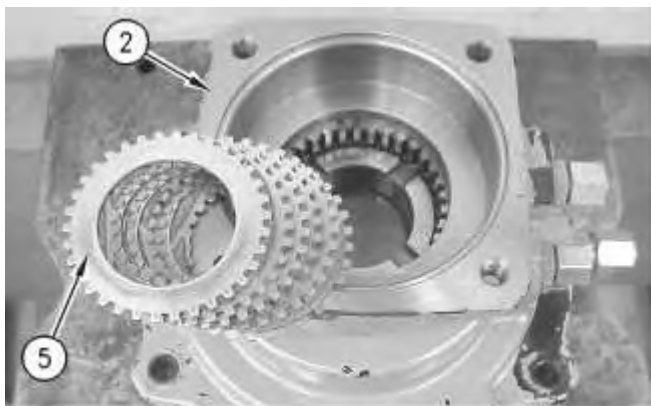


Illustration 5

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7. Remove the discs and plates (5) from swing brake assembly (2).



Illustration 6

g00909004



WARNING

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