



# Service Repair Manual

## **Models**

# 5110B MINING EXCAVATOR

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Product: MINING EXCAVATOR

Model: 5110B MINING EXCAVATOR AAA

Configuration: 5110B Excavator AAA00001-UP (MACHINE) POWERED BY 3412E Engine

## Disassembly and Assembly 5110B Excavator Machine Systems

Media Number -REN3374-09

Publication Date -01/11/2017

Date Updated -28/11/2017

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## Final Drive - Disassemble

SMCS - 4050-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	154-6182	Forcing Bolt (M12)	2
C	439-3940	Link Bracket	2
D	421-5662	Lifting Links	2
E	1P-1864	External Retaining Ring Pliers	1
F	1P-0510	Driver Gp	1
	4C-3085	Two Jaw Puller	1
G	1P-0510	Driver Gp	1
H	1U-6405	Three Jaw Puller	1
	1P-0510	Driver Gp	1
J	5P-5197	External Retaining Ring Pliers	1
K	129-8122	Crossarm Puller	1
	4C-5626	Forcing Screw	1
	4C-5625	Jaw	2
	4C-5624	Spring Clip	2

	154-6182	Forcing Bolt (M12)	4
	1U-9889	Crossblock	1
	3H-0468	Puller Plate	2
	8T-4123	Hard Washer	2
	8T-0362	Bolt (M20 by 2.5 by 110 mm)	2
M	3H-0470	Forcing Screw	1
	3H-0467	Puller Washer	1
	3H-0466	Puller Nut	1
	9S-9155	Spacer	1
	1P-0525	Drive Plate	1
	163-1650	Guide Sleeve	1
N	136-1452	Internal Tip Pliers	1
P	195-4609	Seal Pick	1
R	439-3940	Link Bracket	4

**Start By:**

- a. Remove the final drive. Refer to Disassembly and Assembly, "Final Drive - Remove".

**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. The precision made components of the pump or the motor can be damaged by contaminants or dirt. 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.

**Note:** The hydraulic oil must be contained in the proper manner. Refer to Special Publication, NENG7004, "Contamination Control Catalog".

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## NOTICE

**Keep all parts clean from contaminants.**

**Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.**

**To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.**

**Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.**

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## **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<sup>®</sup> products.**

**Dispose of all fluids according to local regulations and mandates.**

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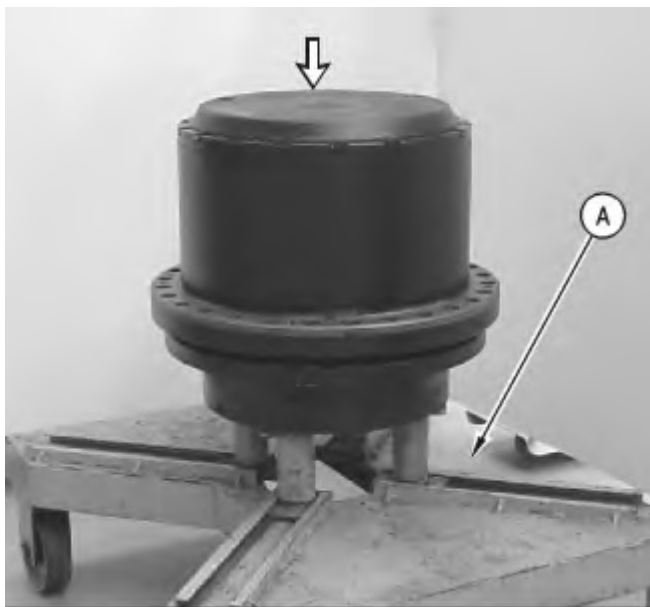


Illustration 1

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1. Place the final drive in position on Tooling (A). The weight of the final drive is approximately 1021 kg (2250 lb).
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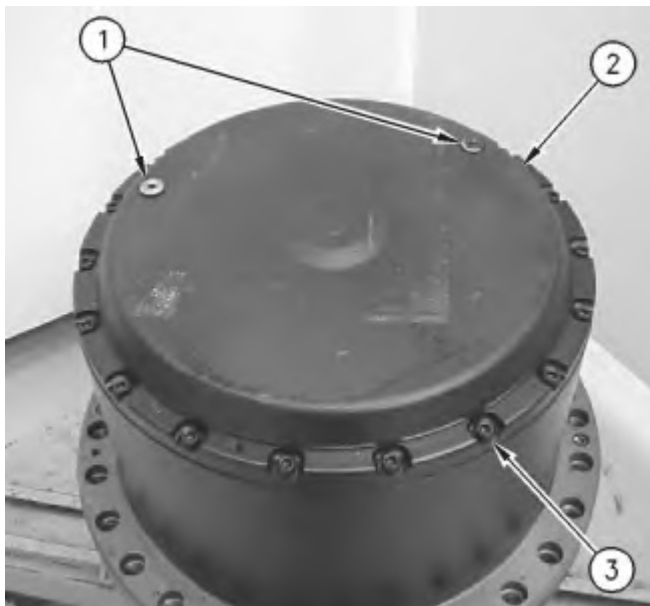


Illustration 2

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2. Remove plugs (1) from gear (2). Remove the O-ring seals from the plugs.
3. Remove bolts (3) from the gear.



Illustration 3

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4. Install Tooling (B) to gear (2). Separate gear (2) from gear (4).

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