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Handle Fluids Safely—Avoid Fires



When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.

Prevent Battery Explosions



Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

IMPORTANT:

Visually check that flanges are aligned and clamp is sitting evenly around flanges of exhaust pipes.

Install clamps (C) to joint and tighten to specification.

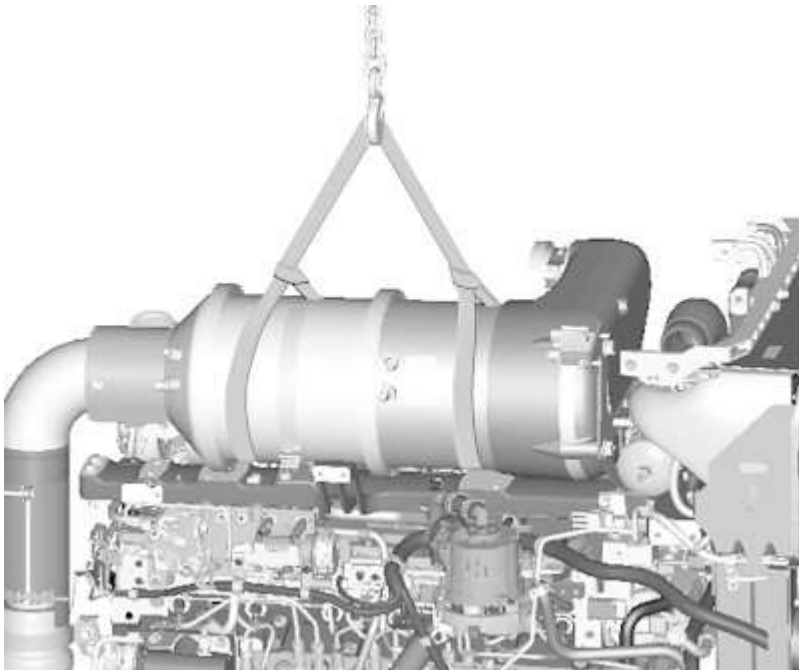
Item	Measurement	Specification
DPF Band Clamps	Torque	17 N·m (150 lb.-in.)

f. Using a rubber mallet, gently tap both clamps at several points around joint circumference to ensure that clamp is seated.

g. Tighten clamps to specification.

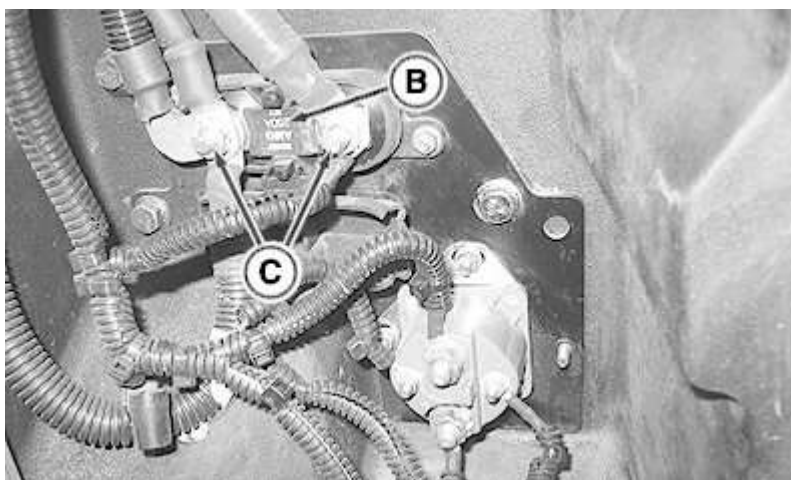
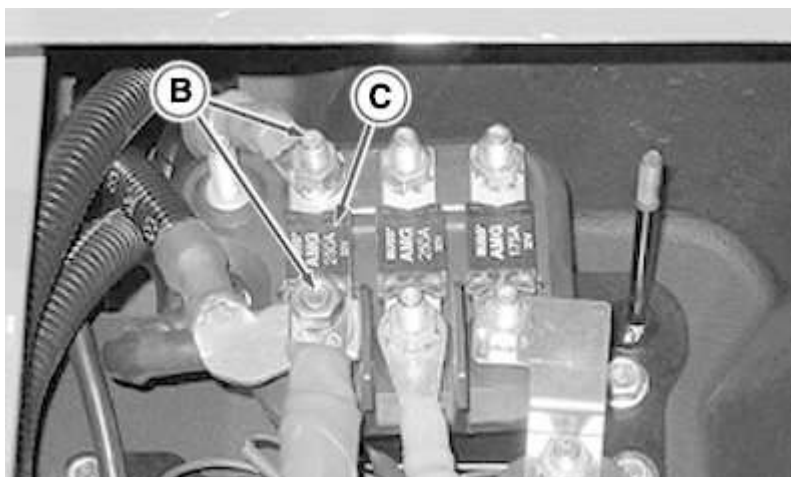
Item	Measurement	Specification
DOC Flange Clamps	Torque	17 N·m (150 lb.-in.)

[5] -



Install Diesel Exhaust Filter:

a. Use lifting straps and overhead hoist to install DPF on engine.

→NOTE:**Starter Master Fuse Without Back Up Pump****Starter Master Fuse With Back Up Pump****LEGEND:**

A	Cover
B	Starter Master Fuse
C	Nuts (2 used)

Starter master fuse is located behind steps on the left-hand side of the tractor.

Load Center Fuses and Relays

→NOTE:

Fold seat backrest down to allow easier access, and allow cab lighting to shine on load center when fuses are being inspected or replaced.

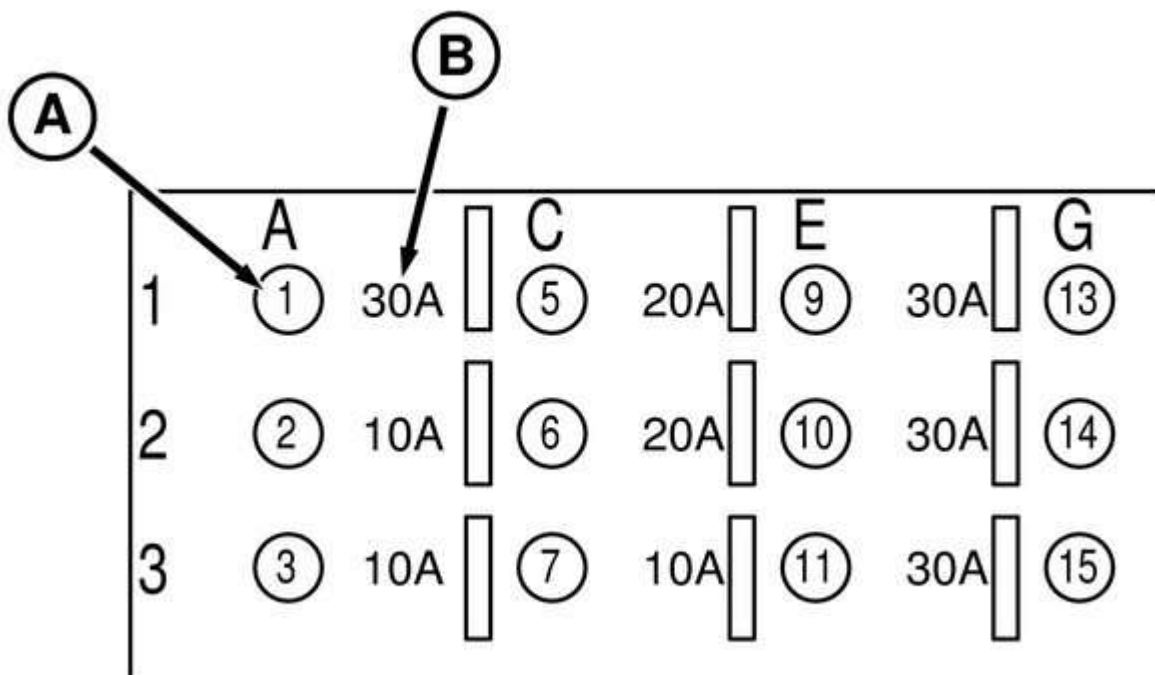
Load center is found directly behind the operator’s seat and just below the cab rear window. To access load center, lift on Operator’s Manual holder (A).



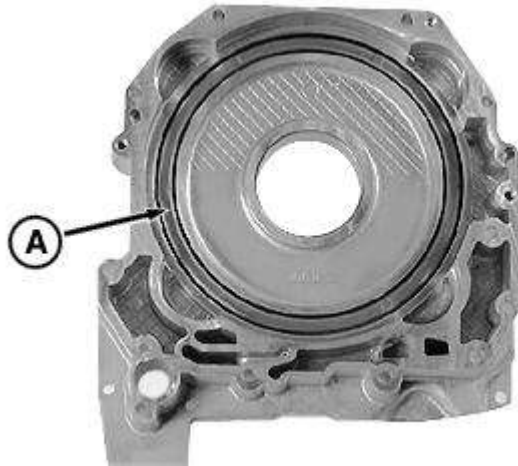
LEGEND:

A Operator’s Manual Holder

The illustration to the right explains how to read the load center diagram.



[4] -



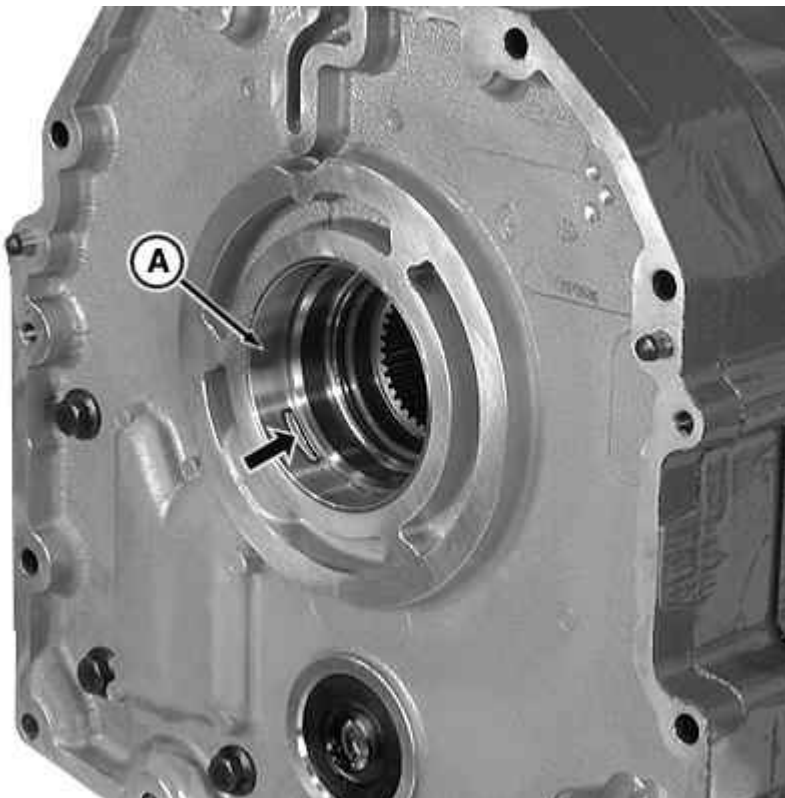
LEGEND:

A Brake Piston

Remove brake piston (A) from housing.

[5] - Repair or assemble reverse brake as required. (See [Exploded View—Reverse Brake](#) in this group.)

[6] -



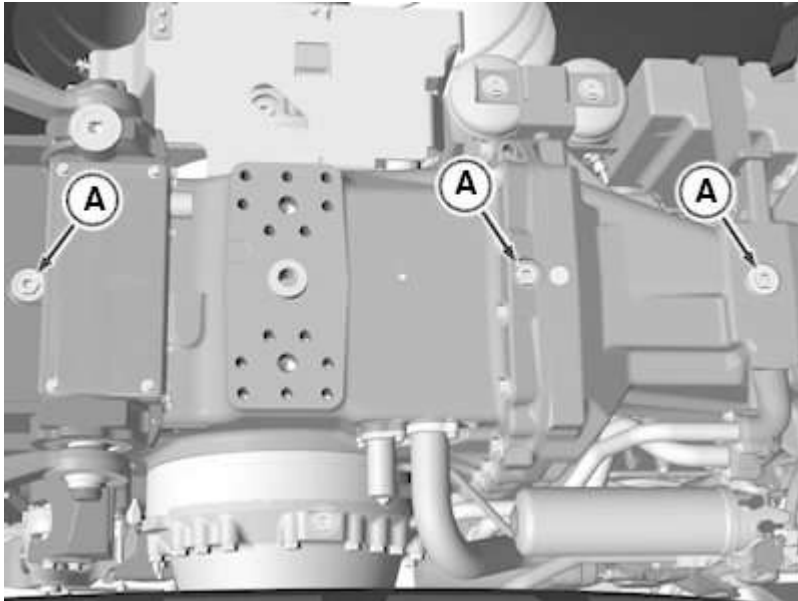
LEGEND:

A Bushing

Check bushing (A) in reverse brake housing. Replace as necessary.

[7] - When installing, turn bushing (A) so that its hole is aligned with hole in housing (see arrow).

[34] -



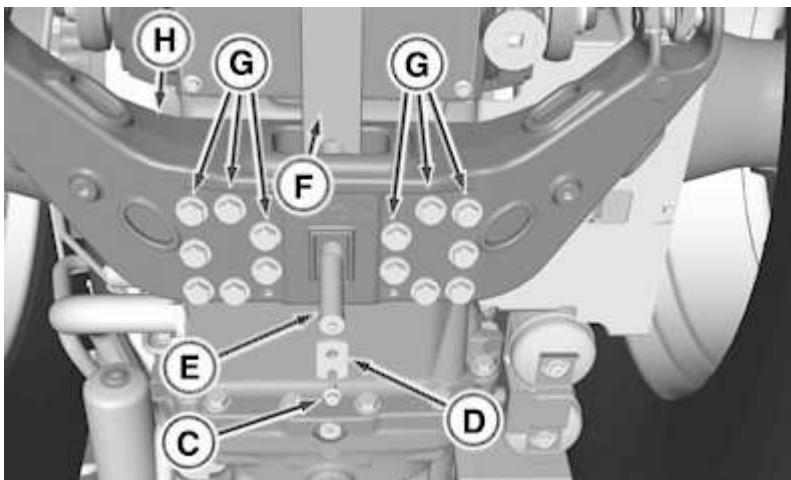
LEGEND:

A Transmission Drain Plugs (3 used)

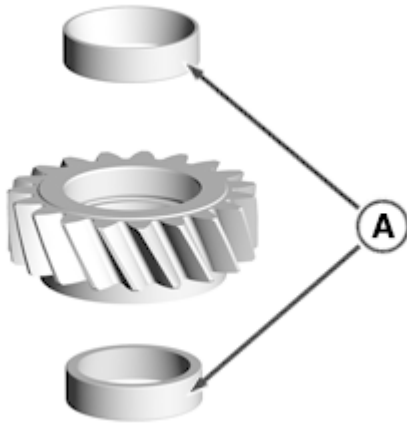
Install transmission drain plugs (A) and tighten to specification.

Item	Measurement	Specification
Transmission Drain Plugs	Torque	102 N·m (75 lb.-ft.)

[35] -



[5] -



LEGEND:

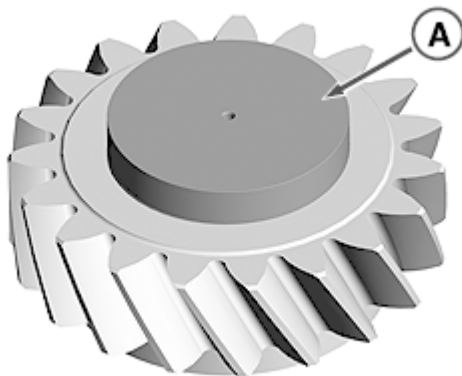
A Bearing Cups (2 used)

Remove bearing cups (A).

[6] -

→NOTE:

Driver disk is part of D01045AA Disk Set .



LEGEND:

A 71 mm (2-13/16 in.) Driver Disk

Use 71 mm (2-13/16 in.) driver disk (A) to install bearing cups.

[7] -

IMPORTANT:

Ensure at least 0.2 mm end play exists after pressing.

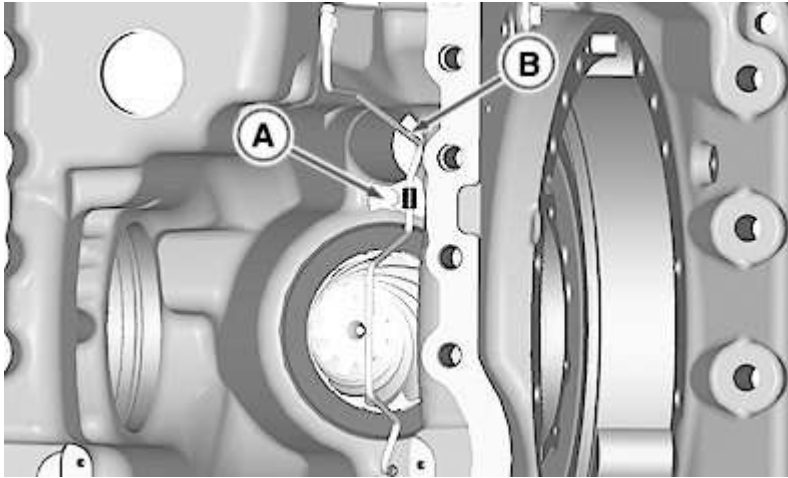
→NOTE:

Ensure correct orientation of gear.

Remove Rear Differential Drive Shaft

[1] - Remove rear differential. (See [Remove Rear Differential](#) in this group.)

[2] -

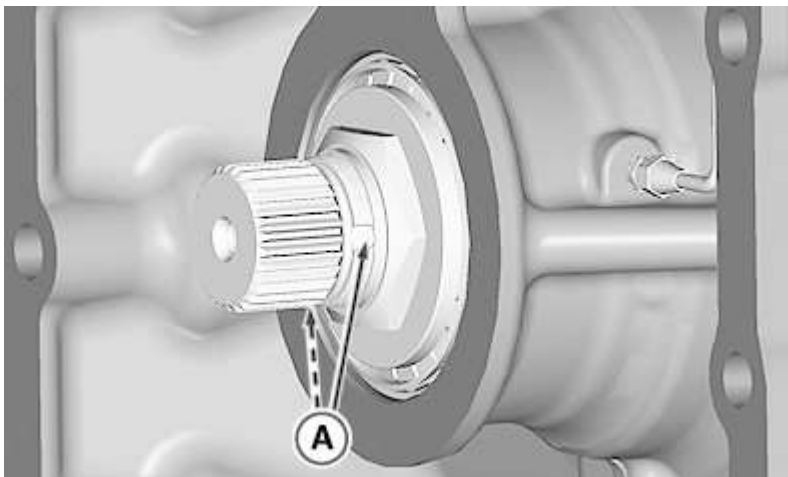


LEGEND:

A Cap Screw
B Oil Line

Remove cap screw (A) and oil line (B).

[3] -



LEGEND:

A Slots (2 used)

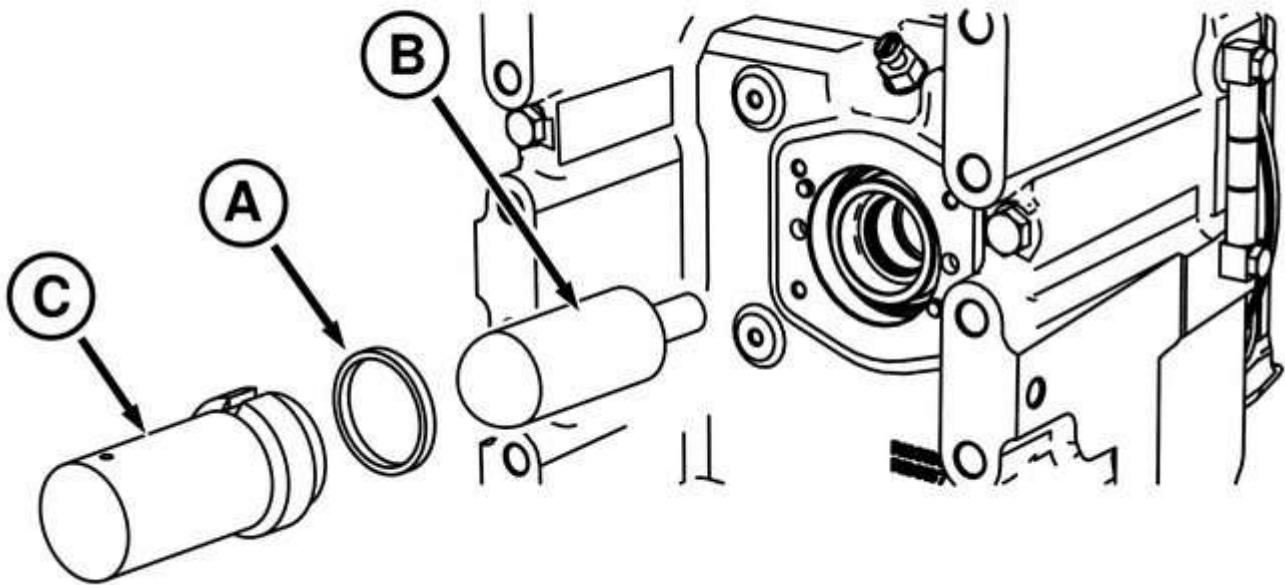
Remove retaining nut tab from slots (A).

[4] -

→NOTE:

[JDG11210P1 Retainer Tool](#) and [JDG11210P2 Retainer Tool](#) are part of [JDG11210 Retainer Tool](#) .

[2] -

**LEGEND:**

A	Seal
B	JDG11209P3
C	JDG11209P2

For Reversible and Shiftable PTOs, perform the following:

- **[3]** - Remove PTO output shaft retaining snap ring, shaft, and oil seal (A).
- Apply PM37477 Thread Lock and Sealer (Medium Strength) to outer edge of seal (A).

Number	Name	Use
<ul style="list-style-type: none"> ◦ PM37477 (us) ◦ PM38621 (canadian) ◦ 242 Loctite™ (loctite) 	Thread Lock and Sealer (Medium Strength)	Used to retain cap screws and seal surfaces.

- Install JDG11209P3 PTO Seal Driver Spud (B) into PTO output shaft.
- Install seal (A) using JDG11209P2 PTO Seal Installer (C).
- Install PTO shaft and retaining snap ring.

Calculate shim pack using the **EXAMPLE** listed below.

	162.120 mm	Differential Case Dimension (A)
-	131.050 mm	Differential Drive Shaft Dimension (B)
-	30.310 mm	Constant Dimension
=	<u> </u>	
	0.760 mm	Correct Shim Pack Thickness

[4] -



LEGEND:

A Shim Pack

Install shim pack (A).

[5] -

CAUTION:



LEGEND:

A Drive Shaft Bearing

Heat bearing in a bearing heater. DO NOT exceed 150 °C (300 °F). Plan a safe handling procedure to avoid burns.

[13] -



LEGEND:

A Alignment Marks

Make alignment marks (A) on ring gear hub and knuckle spindle spline.

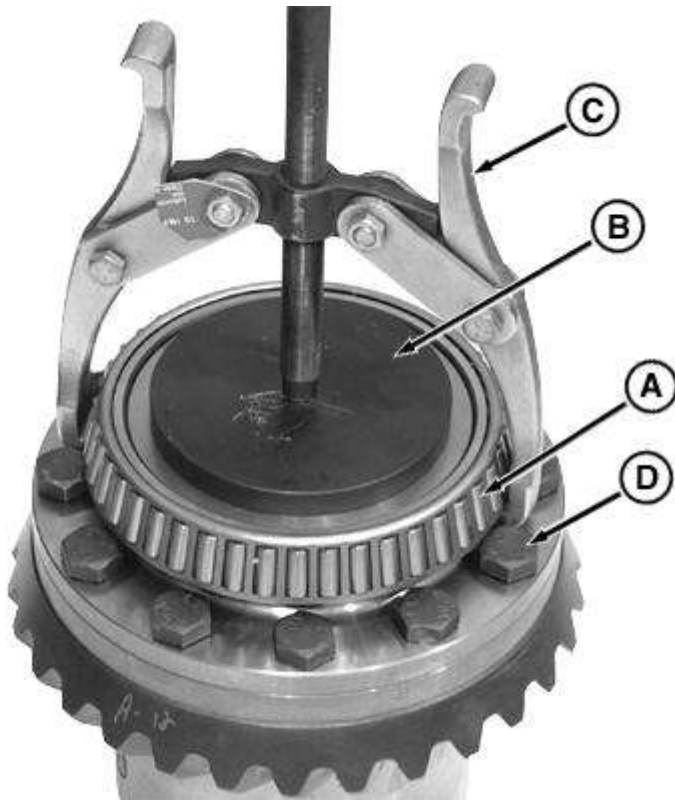
[14] -

IMPORTANT:

Ensure ring gear hub outer bearing does not fall when hub is removed.

Remove ring gear hub.

[2] -



LEGEND:

- A Tapered Roller Bearing
- B [JDG986 Driver Disk \(133 mm or 5-1/4 in.\)](#)
- C Bearing Puller
- D Bearing Quill-to-Housing Cap Screws (12 used)

Remove tapered roller bearing (A) using [JDG986 Driver Disk \(133 mm or 5-1/4 in.\)](#) (B) and bearing puller (C).

[3] - Remove cap screws (D).

Check Brakes

→NOTE:

Disconnect all implements or trailers from vehicle.

[1] - For All Tractors:

- With engine at slow idle, depress brake pedal.
- Ensure that pedal feels solid within 43 mm (1.75 in.) of travel.
- Set engine to 1500 rpm.
- Drive vehicle straight forward at 4 km/h (2.5 mph).
- Depress LEFT brake pedal and verify that vehicle pulls left.
- Depress RIGHT brake pedal and verify vehicle pulls right.
- Drive vehicle straight forward at 8 km/h (5 mph).
- Depress clutch and BOTH brake pedals to stop vehicle. Verify that front end does not pull to either side.
- Drive vehicle straight forward at 8 km/h (5 mph).
- Depress clutch, shut engine OFF, and wait 2 seconds.
- Depress brake pedal and verify vehicle stops.
- Drive vehicle to a sloped location (loading dock ramp).
- Depress clutch and BOTH brake pedals and verify brakes hold vehicle on incline.

[2] - For Tractors With Secondary Brake:

- Drive vehicle to a sloped location (loading dock ramp).
- Place shift lever into **PARK** .
- Engage and hold the secondary brake switch.
- Place shift lever into **NEUTRAL** and verify that secondary brake holds vehicle on incline.
- Release the secondary brake switch.
- Ensure that secondary brake is fully released and tractor rolls.