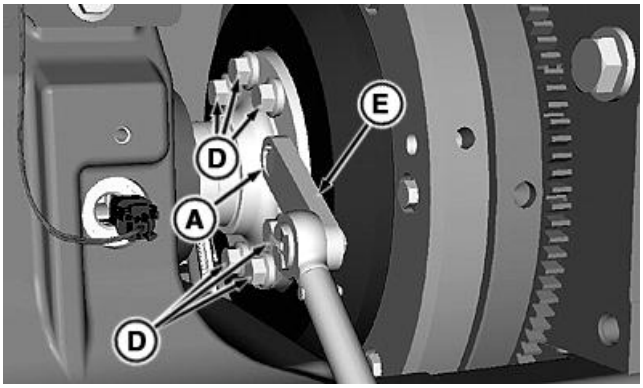
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Engine Coupler

Remove cap screws (A) and remove harness from retainer (B).

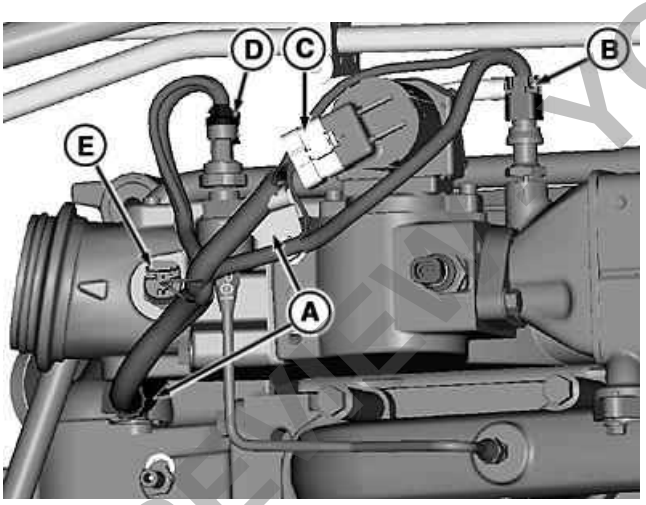
[12] - Remove air cleaner (C).

[13] - Disconnect drive shaft using JDG820 Flywheel Rotation Tool to gain access to cap screws (D) and JDG861 Torque Wrench Adapter (E) to remove cap screws.

[14] -

IMPORTANT:

Label and identify all connectors and sensors for reassembly.



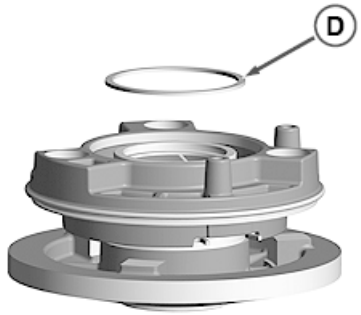
Left Engine Sensors

LEGEND:

A	Harness Clamps
B	Exhaust Temperature Sensor
C	EGR Actuator Connectors
D	Exhaust Pressure Sensor
E	EGR Fresh Air Temperature Sensor
F	Engine Coolant Temperature Sensor
G	Fan Output Drive 1 and 2 Solenoids
H	Fuel Temperature Sensor
I	Fuel Rail Pressure Sensor
J	Fan Speed Sensor
K	High Pressure Fuel Pump Connectors
L	Camshaft Sensor
M	Injector Connector
N	Mixed Air Temperature Sensor
O	Mixed Air Pressure Sensor
P	Turbo Actuator Connectors
Q	Turbo Speed Sensor
R	Engine Harness

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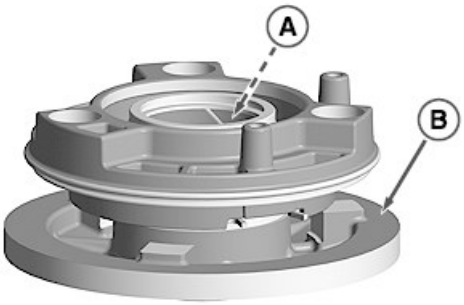


Snap Ring

Install piston plate (A) over inner sheave (B) using press with JDG10878 Bearing Installer (C) press inner race of bearing until it seats on sheave.

[33] - Install snap ring (D) onto inner sheave.

[34] -



LEGEND:

A	Splines
B	Sheave Assembly

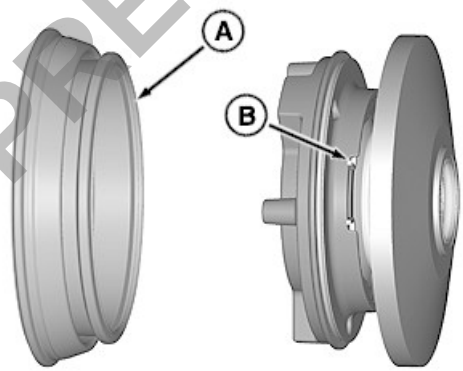
Sheave Assembly

Apply AN102562 Corn Head Grease

Number	Name	Use
• AN102562 (us)	Corn Head Grease	Used to Lubricate bearings and bushings.

in splines (A) of sheave assembly (B).

[35] -



LEGEND:

A	Dust Boot
B	Retainer

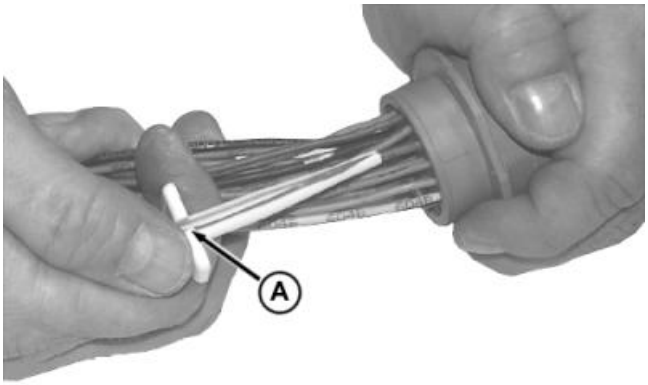
Dust Boot

Install dust boot (A) on housing.

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Repair DEUTSCH™ Connectors



LEGEND:

A	Handle

DEUTSCH Pin Extraction Tool

[1] - Select correct size extractor tool for size of wire to be removed:

→NOTE:

JDG361, JDG362, and JDG363 are part of JDG359 DEUTSCH Electrical Repair Tool Kit .

- JDG361 Extractor Tool - 12—14 Gauge Wire
- JDG362 Extractor Tool - 16—18 Gauge Wire
- JDG363 Extractor Tool - 20 Gauge Wire

[2] - Start correct size extractor tool over wire at handle (A).

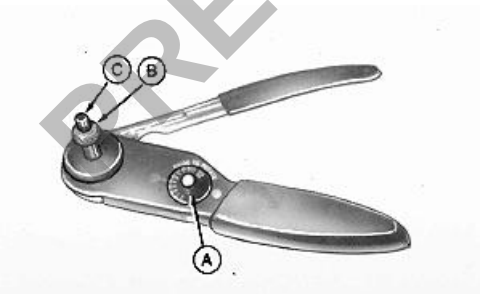
[3] - Slide extractor tool rearward along wire until tool tip snaps onto wire.

IMPORTANT:

DO NOT twist tool when inserting in connector.

[4] - Slide extractor tool along wire into connector body until tool is positioned over terminal contact.

[5] - Pull wire from connector body using extractor tool.



LEGEND:

A	Selector
B	Lock Nut
C	Adjusting Screw

DEUTSCH Crimping Tool

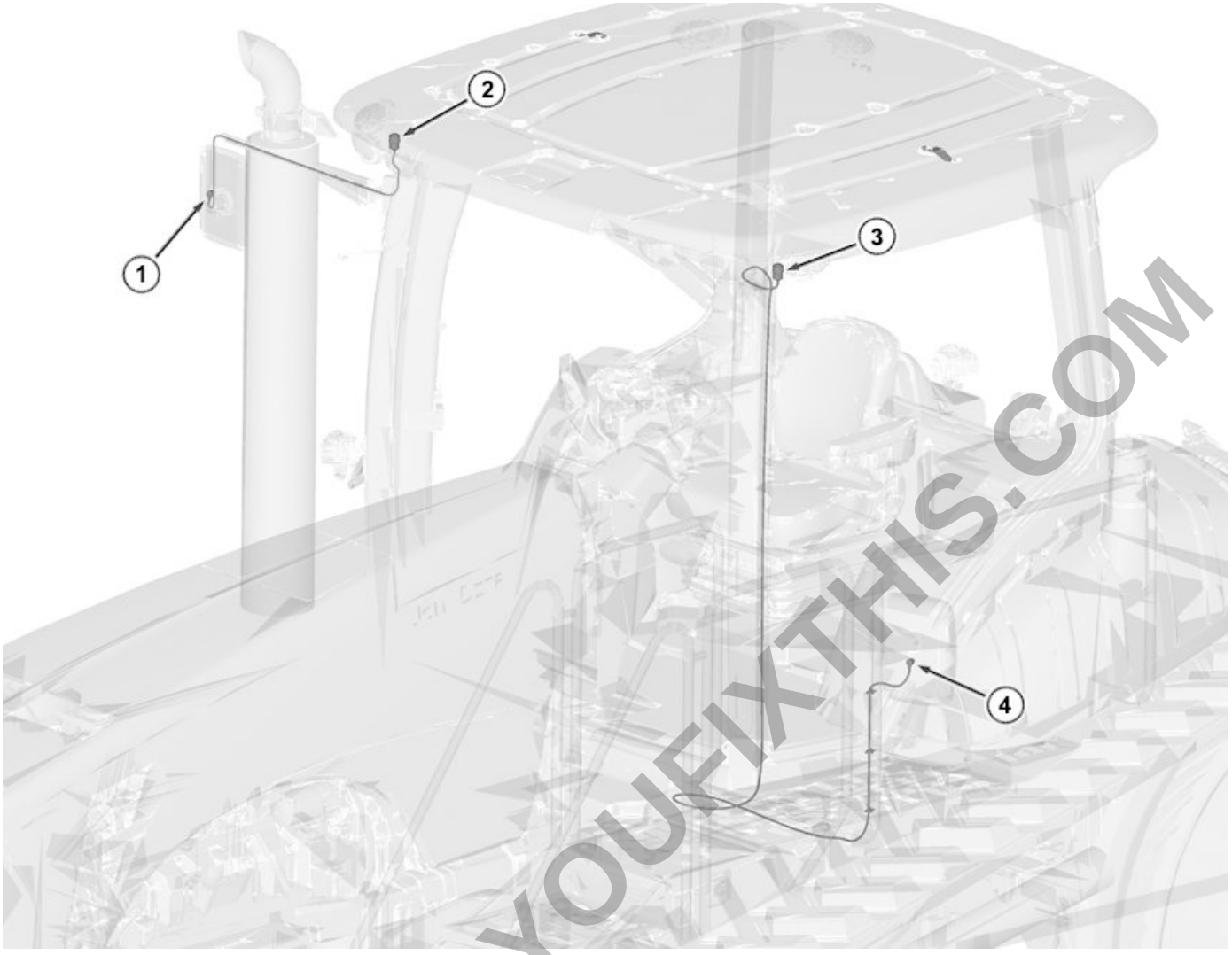
[6] - Strip 6 mm (1/4 in.) insulation from wire.

[7] -

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Power Standard Mirror Harness



Power Standard Mirror Harness

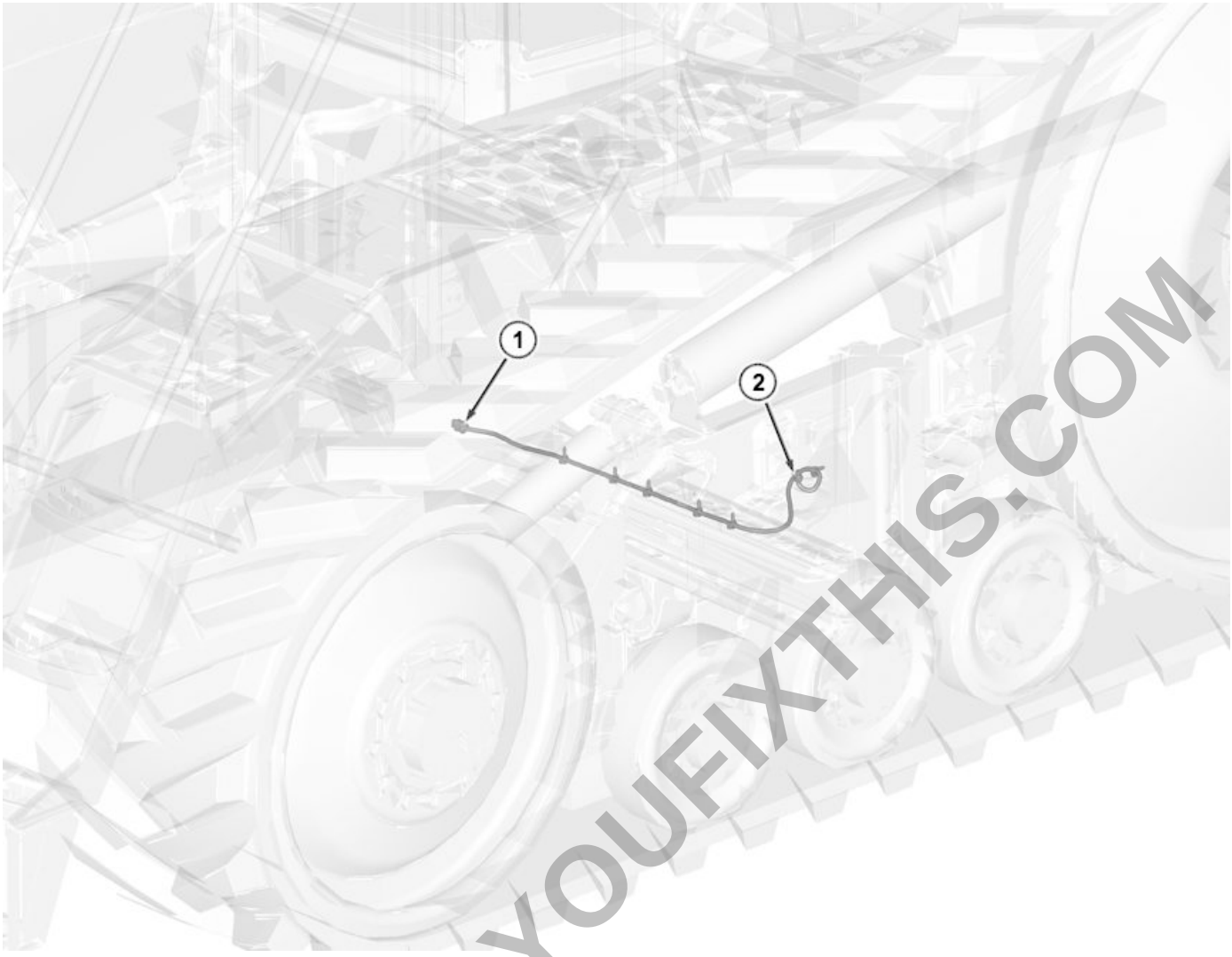
LEGEND:

1	Power Standard Right Mirror Motor
2	Right Power Mirror Interconnect
3	Left Power Mirror Interconnect
4	Power Standard Left Mirror Motor

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Left Track Tension Harness



Left Track Tension Harness

LEGEND:

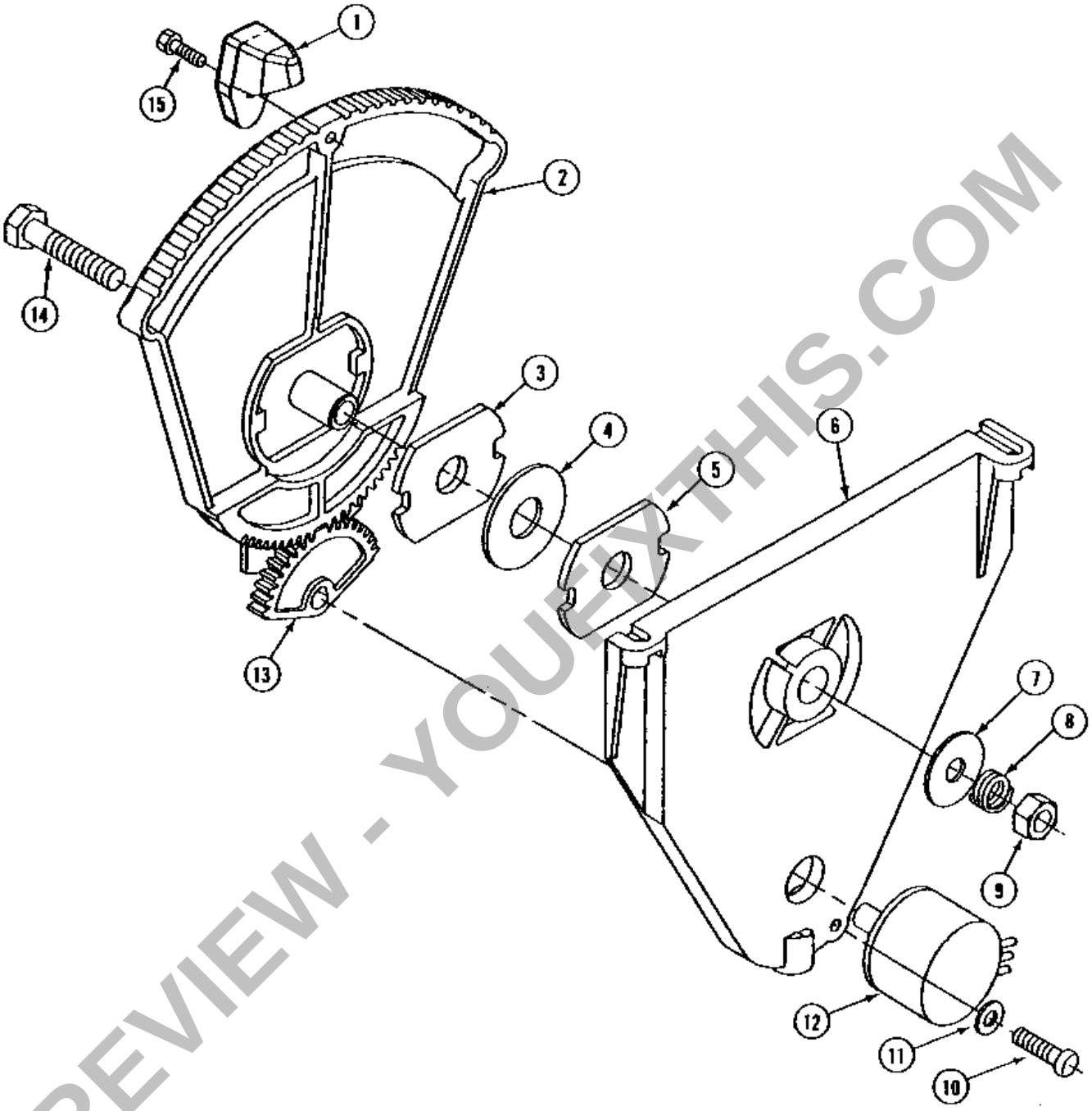
1	Left Track Tension to Suspension Harness Interconnect
2	Left Track Tension Sensor

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Replace Engine Speed Control

[1] -



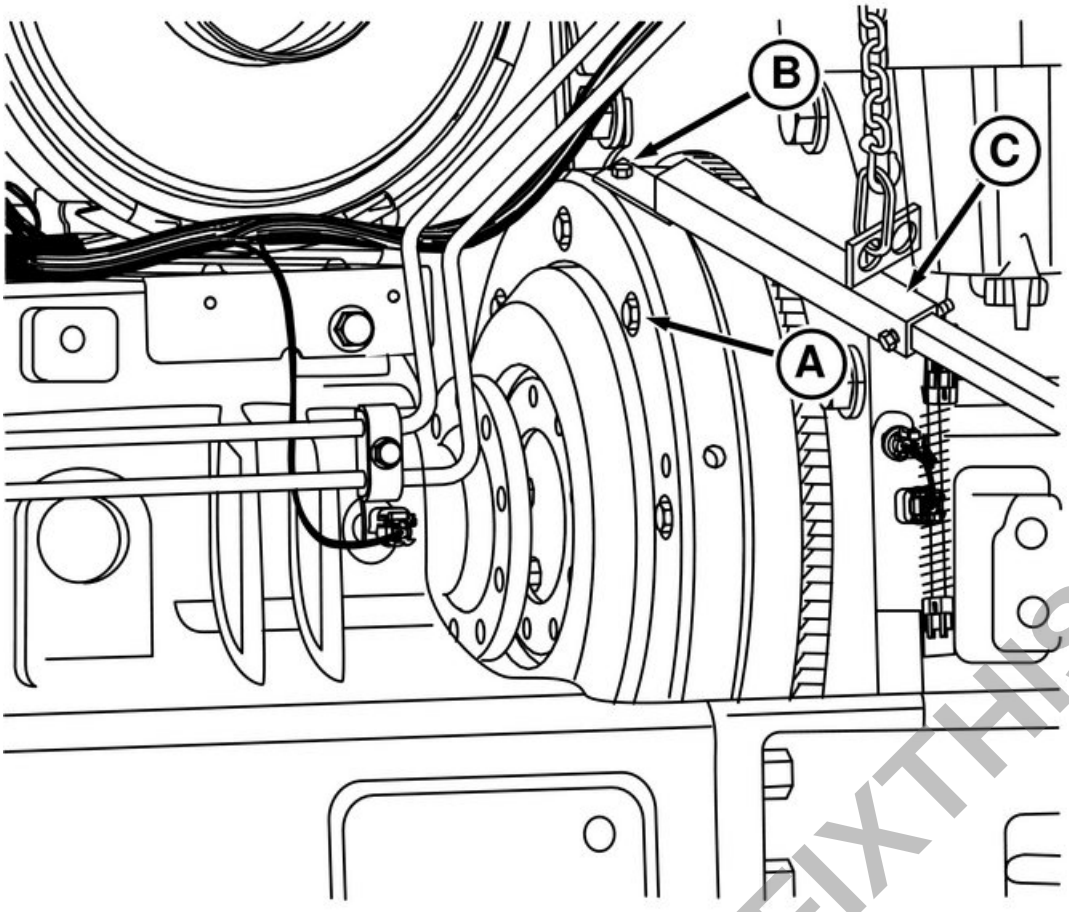
Engine Speed Control—Exploded View

LEGEND:

1	Knob
2	Control Lever
3	Special Washer
4	Friction Washer
5	Special Washer
6	Bracket
7	Washer
8	Spring
9	Nut
10	Cap Screw
11	Washer
12	Sensor

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Using JDG879 to Remove Inertia Ring

LEGEND:

A	Cap Screws (8 used)
B	M12 Cap Screw
C	JDG879

Remove cap screws (A).

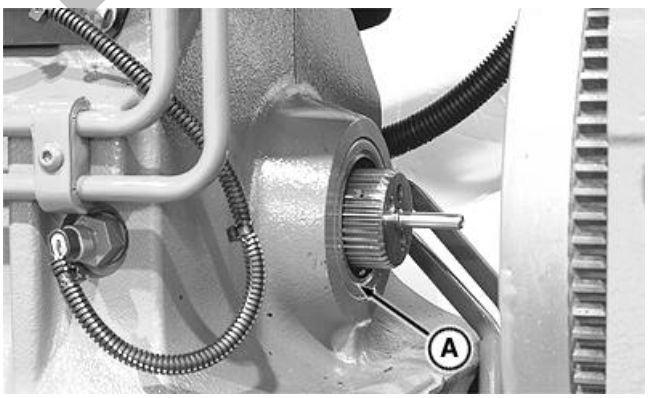
[6] - Attach handles of JDG879 Differential and Pinion Lifting Fixture (C) to inertia ring with an M12 cap screw.

[7] - Remove flywheel with inertia ring.

[8] - Remove coupling from input shaft.

[9] - Inspect V-ring seal and replace as necessary.

[10] -



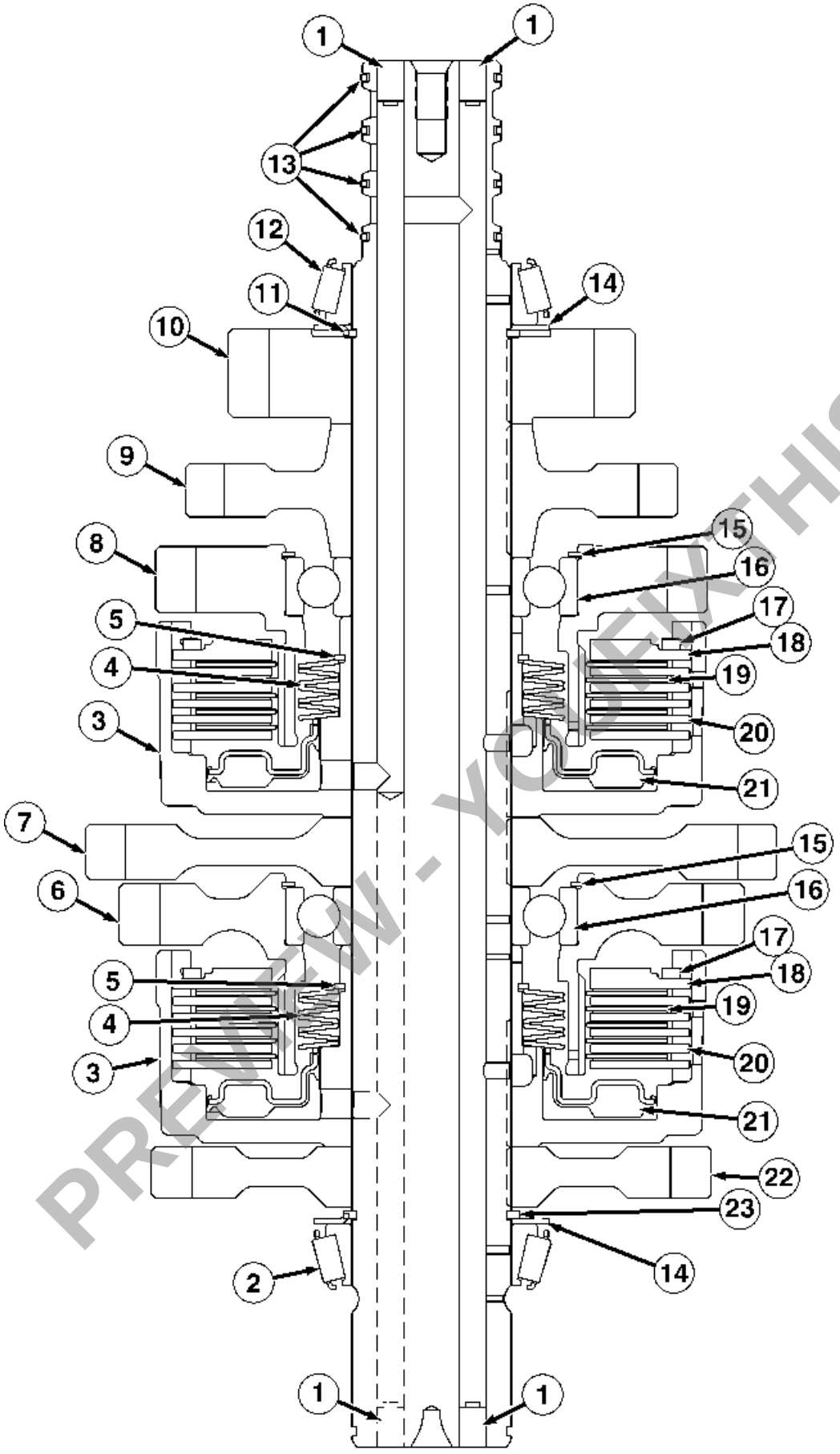
LEGEND:

A	Seal

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Cross-Sectional View—Transmission Countershaft

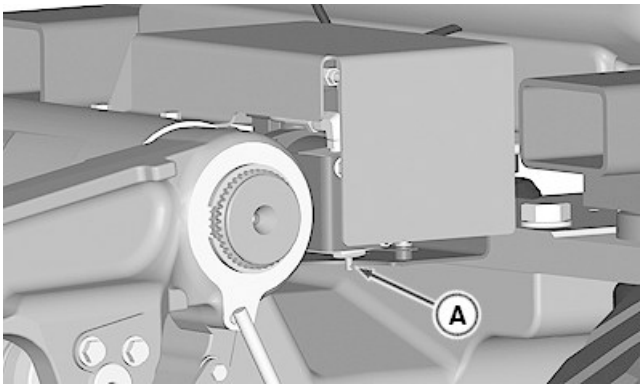


Cross-Sectional View—Transmission Countershaft

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Remove Transmission



LEGEND:

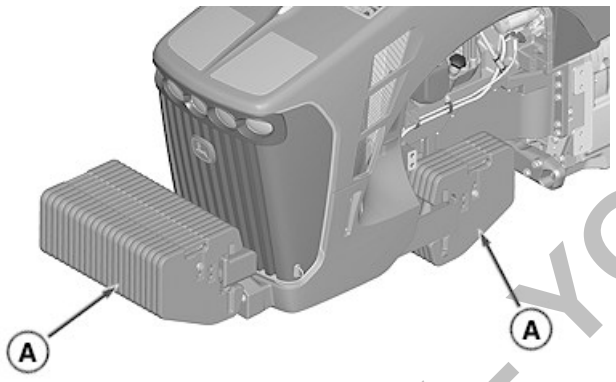
A	Vent Valve

Vent Valve

[1] - Relieve system air pressure by depressing vent valve (A).

[2] - Adjust left-hand track frame tread spacing out to allow transmission removal. (See Adjust Track Tread Settings in Section 95, Group 05.)

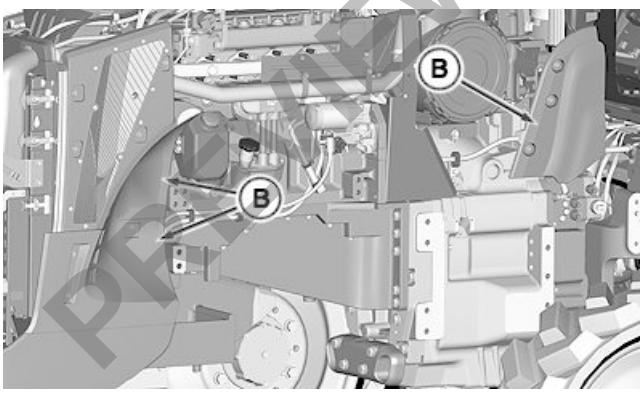
[3] -



LEGEND:

A	Weights
B	Shields

Weights



Shields

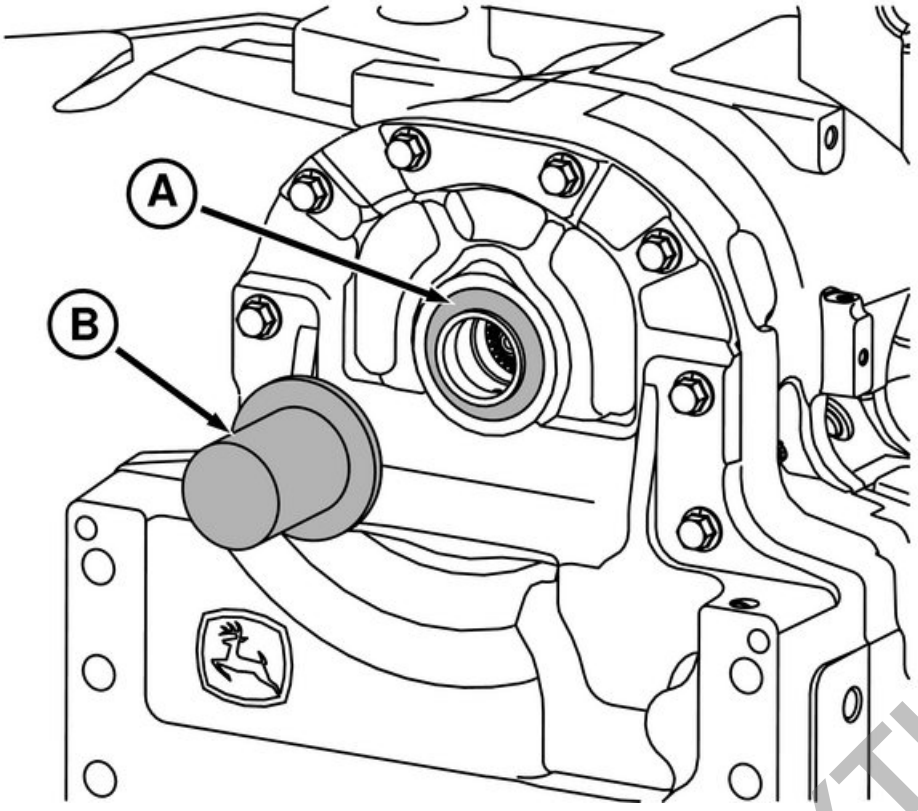
Drain transmission oil. (See Drain Hydraulic System in Section 70, Group 05.)

[4] - Position hood forward. (See Position Hood Forward in Section 80, Group 05.)

[5] - Remove steps. (See Remove and Install Platform Step Assembly in Section 80, Group 10.)

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Input Shaft Seal

LEGEND:

A	Input Shaft Seal
B	JDG851 Seal Installer

Apply PM37477 Thread Lock and Sealer to OD of seal (A).

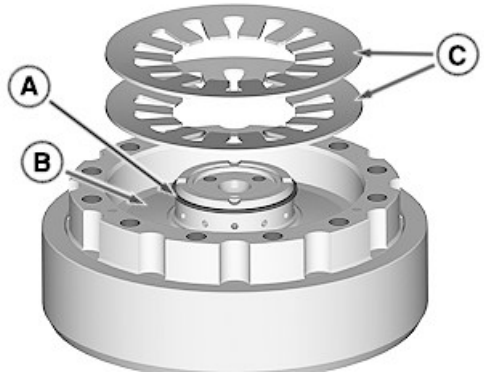
Number	Name	Use
• PM37477 (PM37418 [Smaller Size]) (us) • PM38621 (canadian) • 242 LOCTITE ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Used to retain cap screws and seal surfaces.

[36] - Use JDG1861 Seal Installer (B) to install seal.

[37] -

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LEGEND:

A	Seal Rings (2 used)
B	High-Clutch Piston
C	Return Springs (2 used)

High-Clutch Piston

Replace seal rings (A) on piston (B).

[10] - Install return springs (C).

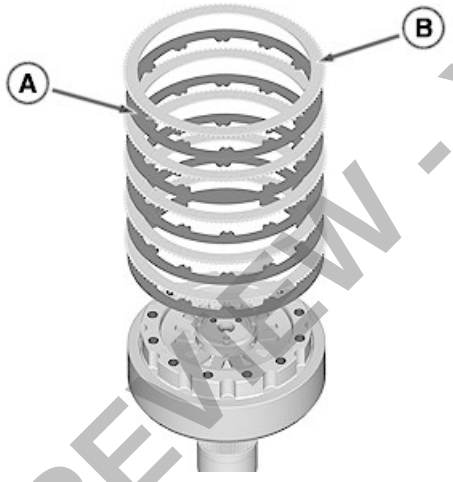
[11] -

IMPORTANT:

Low-Clutch plates and disks are a matched set. DO NOT mix plates and disks with other Low-Clutch sets.

IMPORTANT:

A steel plate (A)MUST be installed against piston.



LEGEND:

A	Plates (5 used)
B	Disks (5 used)

Low-Clutch Pack

Install low-clutch disks (B) and plates (A).

[12] -

IMPORTANT:

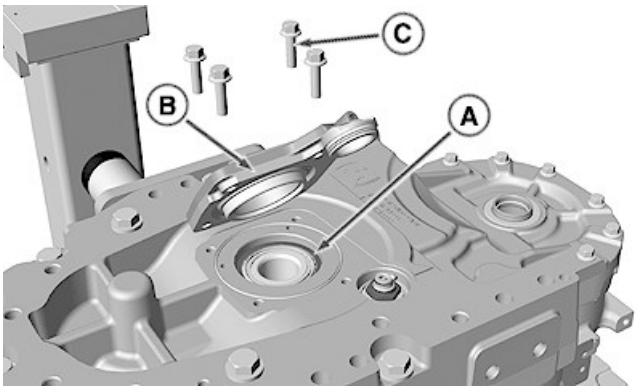
Cover must be reinstalled on carrier in same orientation as removed.

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Install Bearing Cover

[1] -



LEGEND:

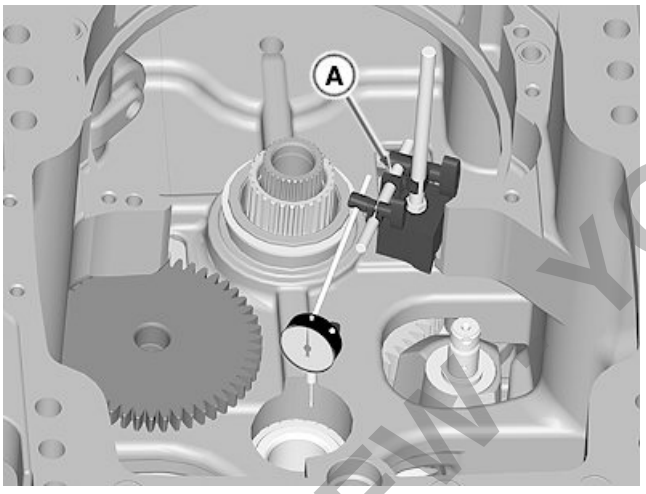
A	Bearing Cup
B	Housing
C	Cap Screws (4 used)

Bearing Cover

Install bearing cup (A), output housing (B), and cap screws (C). Tighten to specification.

Item	Measurement	Specification
Bearing Cover Cap Screws	Torque	125 N·m (92 lb.-ft.)

[2] -



LEGEND:

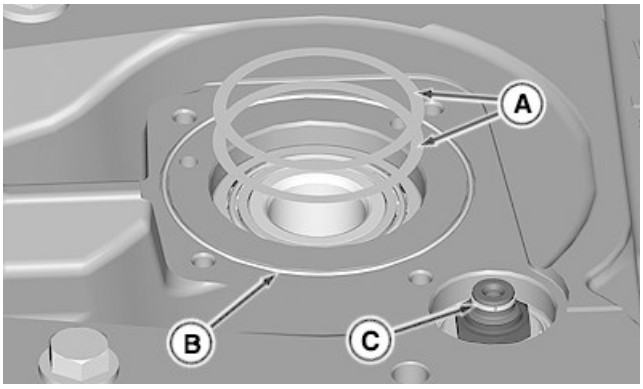
A	Dial Indicator

Measure Shaft End Play

Use a dial indictor (A) to check shaft end play.

Item	Measurement	Specification
Output Shaft	End Play	0.00—0.15 mm (0.000—0.006 in.)

[3] -



LEGEND:

A	Shims
B	O-ring
C	Shaft Seal

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JDG931 Driver Disk (178 mm or 7 in.)

JDG938 Seal Installer

JDG1120 Differential Quill Adjustment Tool

JDG1149 Driver Disk 171 mm (6-3/4 in.)

JDG1606 Differential Pinion Retaining Tool

JDG10577 Spiral Bevel Pinion Holding Tool

JDG10808 Rear Differential Lift Tool

JDT35 Driver Disk

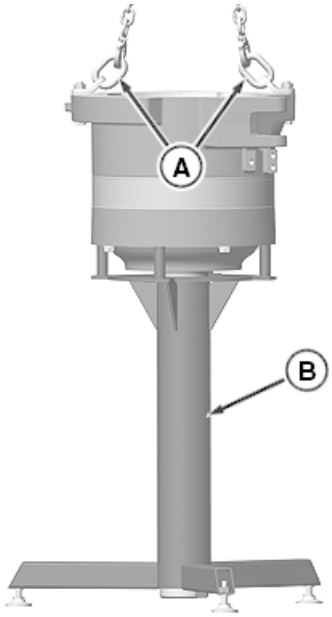
Other Material

Number	Name	Use
• PM37477 (PM37418 [Smaller Size]) (us) • PM38621 (canadian) • 242 LOCTITE ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Used to retain cap screws and seal surfaces.
• PM38656 (us) • PM38627 (canadian) • 277 LOCTITE ™ (loctite)	Thread Lock and Sealer (High Strength)	Used to retain cap screws and seal surfaces.
• PM38657 (us) • PM38628 (canadian) • 17430 LOCTITE ™ (loctite)	High Flex Form-In-Place Gasket	Used to seal transmission housings.
• PM38655 (us) • PM38625 (canadian) • 515 LOCTITE ™ (loctite)	Flexible Form-in-Place Gasket	Used to seal surfaces.
• RE23148 (us)	AMBLYGON ™ Grease	Used for lubrication.

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[4] -

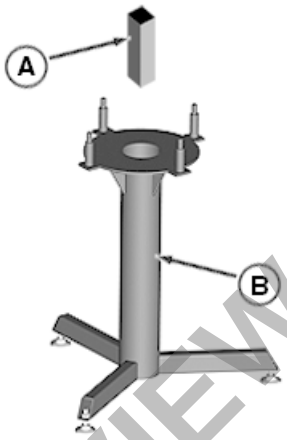


LEGEND:
A JDG909 Lifting Eyes
B JDG10759 Final Drive Support Stand

Axle Assembly

Install JDG909 Lifting Eyes (A) onto inner axle housing.

[5] -



LEGEND:
A Spacer Block
B JDG10759 Final Drive Support Stand

Spacer Block

For European tractors perform the following: Insert a 381 mm (15 in.) spacer block (A) into JDG10759 Final Drive Support Stand (B).

[6] -

CAUTION:

Axle assembly is extremely heavy 685 kg (1510 lb). Use proper lifting equipment to prevent possible personal injury.

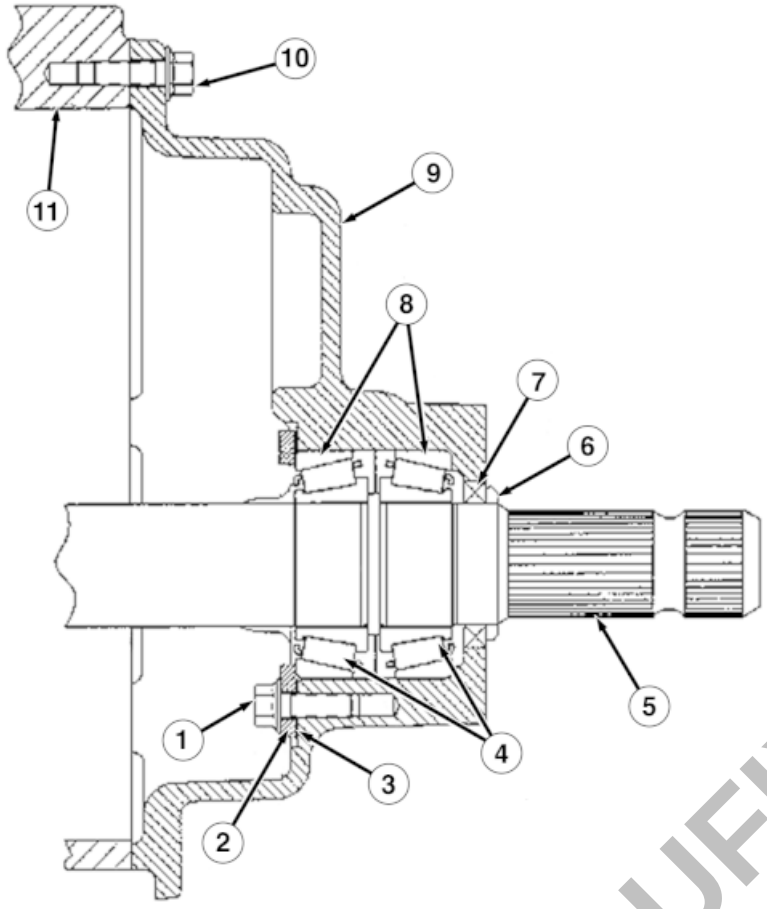
Attach to suitable overhead lifting device and install axle assembly into JDG10759 Final Drive Support Stand (B).

[7] -

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Cross-Sectional View—PTO Output Housing Assembly



PTO Output Housing Assembly Cross Section

LEGEND:

1	Cap Screw (4 used)
2	Bearing Retaining Plate
3	Shim Pack
4	Bearing Cone (2 used)
5	PTO Output Shaft
6	Oil Seal
7	Dust Seal
8	Bearing Cup (2 used)
9	PTO Output Housing
10	Regular Cap Screw (5 used) Special Cap Screw (4 used)
11	Hitch Frame

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Group 15 - Steering Pump

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Specifications

Exploded View—Steering Charge Pump and Pump Control

Disassemble, Inspect, and Assemble Steering Charge Pump

Disassemble, Inspect, Assemble Displacement Control Valve

Exploded View—Steering Pump

Disassemble, Inspect, and Assemble Hydraulic Steering Pump

Essential, Recommended and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

D01006AA Bench-Mounted Holding Fixture

JDG1072 Journal Bearing Sizing Tool

JDG1077 Yoke Installation Tool

JDG1094 Leveling Plate

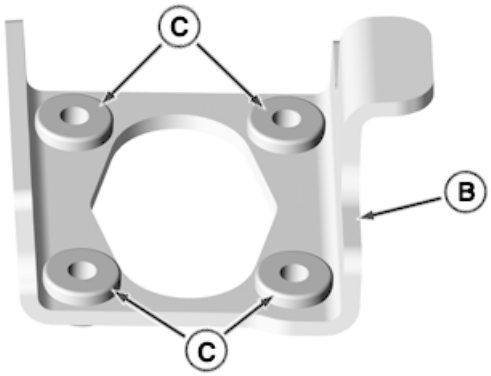
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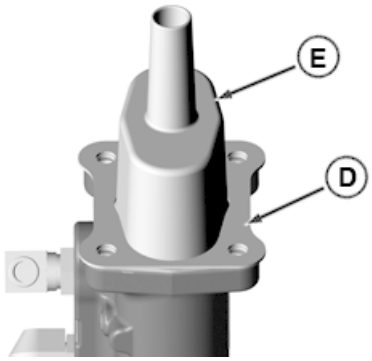
[36] - Apply grease to pins (B) and contact surface of plate (A).

[37] -

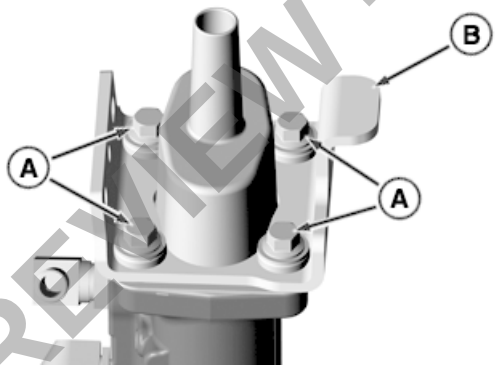
IMPORTANT:



Mounting Bracket and Isolators



Gasket and Boot



Cap Screws, Washers, and Mounting Bracket

LEGEND:

A	Cap Screws and Washers (4 used)
B	Mounting Bracket
C	Isolators (4 used)
D	Gasket
E	Boot

Do not use oil or petroleum based lubricants to lubricate isolators. Petroleum based lubricants causes rubber to expand and make installation more difficult.

Lightly lubricate isolators (C) with warm soapy water.

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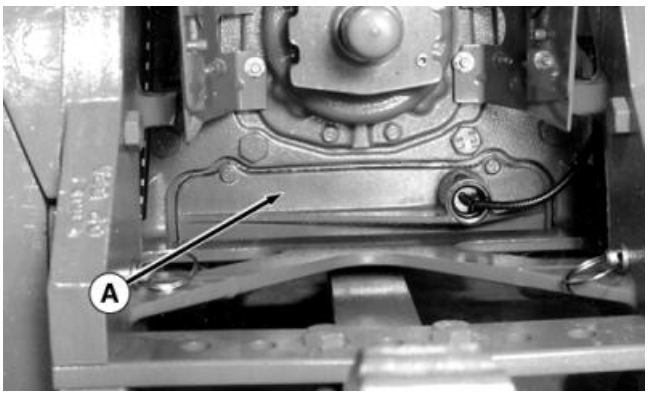
→NOTE:

A controller from service parts is preset at the factory and will not require adjustment after installing on the tractor.

Check system pressure. (See OPERATION AND TEST TM)

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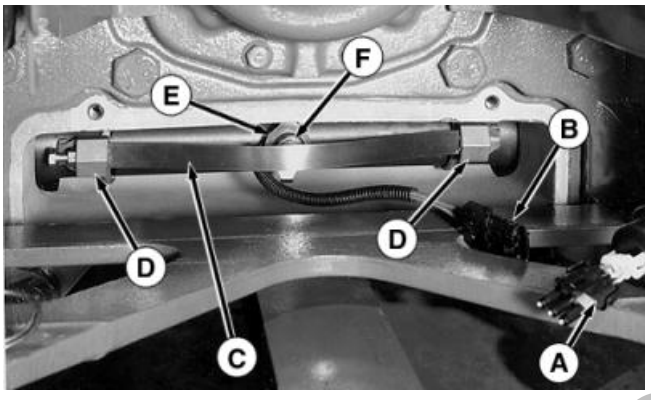
LEGEND:

A	Cover

Cover

Remove cover (A) from hitch frame.

[6] -



LEGEND:

A	Cover Harness Connector
B	Draft Sensor Connector
C	Sensing Strap
D	Clamps
E	Sensor Bracket
F	Draft Sensing Sensor

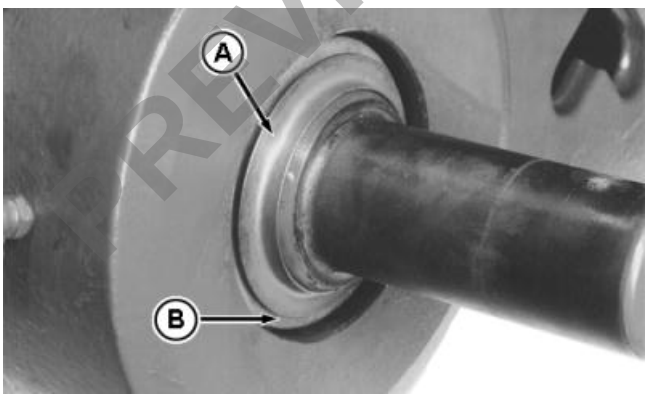
Connectors, Sensing Strap, and Clamps

Disconnect cover harness connector (A) from draft sensor connector (B).

[7] - Remove sensing strap (C) and clamps (D).

[8] - Remove bracket (E) and draft sensing sensor (F).

[9] -



LEGEND:

A	Seal Retainer
B	Seal

Seal Retainer and Seal

Remove seal retainers (A) and seals (B) by driving shaft from opposite end of shaft.

[10] - Remove draft sensing shaft.

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[7] - Disconnect blower motor connector (B).

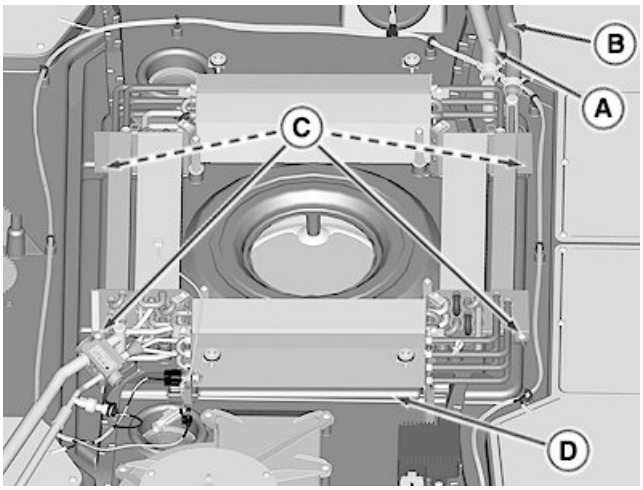
[8] - Disconnect and remove thermostat probe (C).

[9] - Remove cover (D) with blower motor.

[10] - Disconnect expansion valve (E) then cap lines to prevent contamination.

[11] - Disconnect and identify air temperature sensor (F) and blower speed resistor connector (G) for reassembly.

[12] -



LEGEND:

A	Heater Inlet Hose
B	Heater Outlet Hose
C	Socket Head Cap Screw (4 Used)
D	HVAC Module

HVAC Module

Clamp off heater inlet hose (A) and disconnect from module.

[13] - Clamp off heater outlet hose (B) and disconnect from module.

[14] - Disconnect evaporator temperature sensor and duct air temperature sensor.

[15] - Remove socket head cap screw (C).

[16] - Remove HVAC module (D) from roof.

Install HVAC Module

[1] - Flush evaporator if module was air tested.

[2] - Add 60 mL (2 oz) of refrigerant oil to module before installation if evaporator was completely flushed or replaced with a new evaporator, and if no system leaks found. If leaks existed, check refrigerant oil charge. (See Determine Correct Refrigerant Oil Charge in Group 10.)

[3] - Inspect O-rings on high and low-pressure lines.

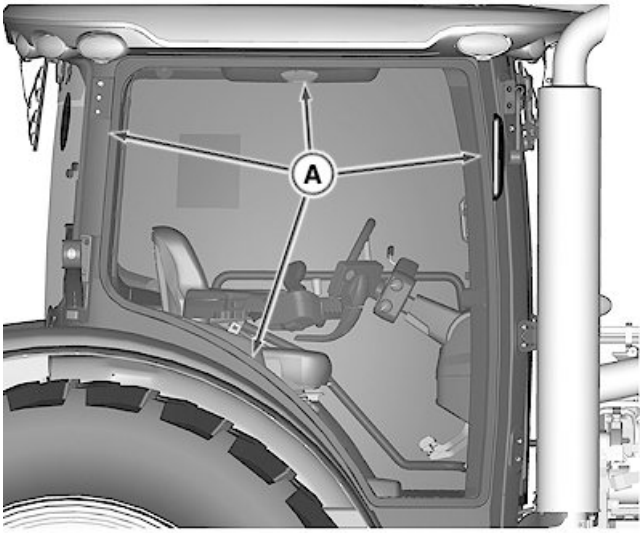
[4] -

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LEGEND:

A	Adhesive Surface

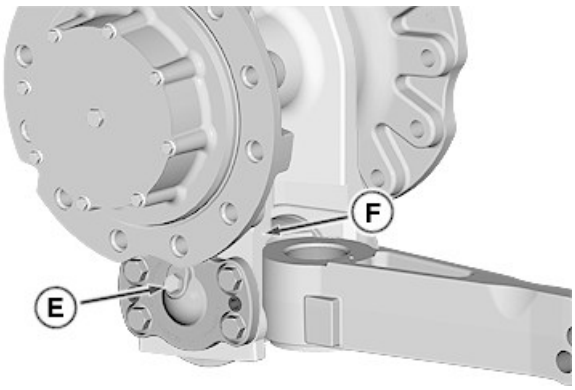


Side Window

Clean adhesive surface (A).

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LEGEND:

E	Fill Plug
F	Tension Link

Tension Link Pivot Fill Plug

Position tension link assembly in upright position as illustrated, and remove fill plug (E).

[22] -

→NOTE:

Bushing caps hold approximately 80 mL (2.7 oz.) of oil on each side of tension link.

Fill tension link (F) with hydraulic oil until oil is level with plug (E).

[23] - Install fill plug (E) and tighten to specification.

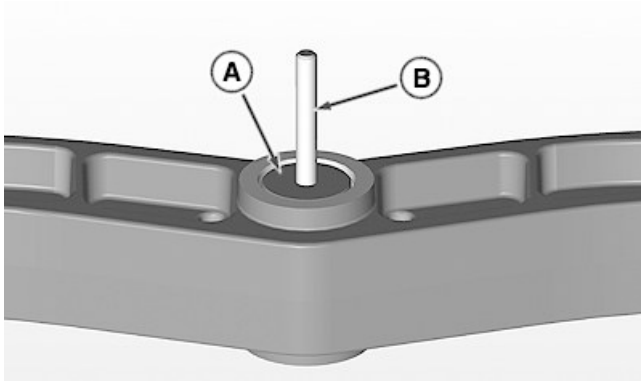
Item	Measurement	Specification
Tension Link Pivot Fill Plug	Torque	34 N·m (25 lb-ft)

[24] - Install tension link and alignment lever. (See Remove and Install Tension Link and Alignment Lever in this group.)

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→NOTE:



Removing Isolator and Pivot Bushing

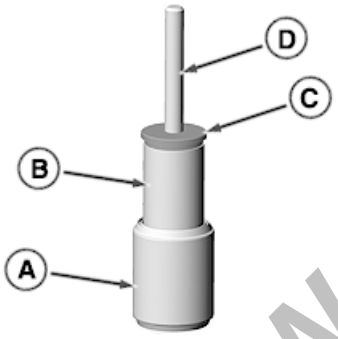
LEGEND:

A	Driver Disk
B	Handle

Handle and driver disk are part of D01045AA Disk Set .

Replacing Isolator Bushing and Pivot Bushing: Press out isolator bushing (with pivot bushing) using a 108 mm or 4-1/4 in. driver disk (A) and handle.

[7] -



LEGEND:

A	Isolator Bushing
B	Pivot Bushing
C	JDG1427 Driver
D	JDG537 Driver Handle

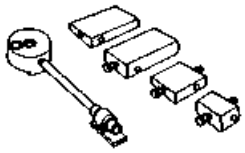
Assembling Bushing

Press new pivot bushing (B) into isolator bushing (A) using JDG1427 Driver (C) and JDG537 Driver Handle (D) until driver contacts isolator bushing.

[8] -

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JDG855

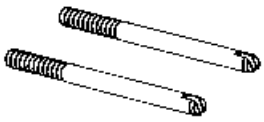
Used to assemble transmission clutch packs.

JDG857 Guide Pins

Rear Cover and Manifold Guide Pins

JDG857

[—RECOMMENDED TOOL May be fabricated—See Section 99, Group 05 (DFRW91)]



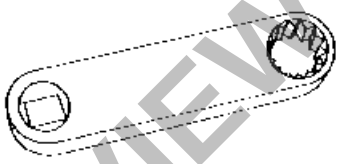
JDG857

Used to remove and install input quill assembly to differential case.

JDG861 Torque Wrench Adapter

Torsional Damper Wrench

JDG861



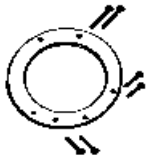
JDG861

Used to tighten torsional damper screw.

JDG864 Park Brake Spring Compression Tool

Park Brake Spring Compression Tool

JDG864



JDG864

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