Group 05 - Safety

Recognize Safety Information



This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

Understand Signal Words







A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Remove and Install 6.8L Engine

Remove and Install 9.0L Engine

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.

JDG19 Lifting Eyes

JDG820 Flywheel Rotation Tool

JDG11252 Front Lifting Bracket

JDG11258 Rear Lifting Bracket

JDG11260 Lifting Bracket

JT07336 Lift Sling

Other Material

Number	Name	Use
• PM38657 (us) • TY9484 (canadian) • 17430 Loctite ™ (loctite)	High Flex Form-In-Place Gasket	Used to seal surfaces.

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Group 10 - Diesel Fuel System

List of References

Below is a list of all items within this group.

Specifications

Remove and Install Left-Hand Fuel Tank

Remove and Install Right-Hand Fuel Tank

Replace Fuel Filter, Fuel Pump, and Bleed Fuel System

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Group 05 - Connectors

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Use Electrical Insulating Compound

Using High-Pressure Washers

Repair AMP Connector

Repair AMPSEAL 16™ Connectors

CAN Controlled SCV Connectors

Remove Connector Body from Blade Terminals

CINCH™ Wedgebox Connectors

Exploded View—CINCH™ Flexbox Connectors

CINCH™ Flexbox Connectors

Repair CPC™ Blade Type Connectors

Repair CPC™, Large MATE-N-LOC™, and METRIMATE™ Pin Type Connectors

Repair DEUTSCH™ Connectors

Repair DEUTSCH™ Implement Connectors

Repair ITT Connector

Repair Small MATE-N-LOC™ Socket Connector

Repair Small MATE-N-LOC™ Pin Connector

Repair (Pull Type) METRI-PACK™ Connectors

Repair (Push Type) METRI-PACK™ Connectors

Repair Molex™ Control Unit Connectors

Repair Molex Connector

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Remove Transmission

Install Transmission

Remove PowrQuad™

Install PowrQuad™

Remove Range Box

Install Range Box

Remove MFWD Clutch

Install MFWD Clutch

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.

JDG19 Lifting Eyes

JDG861 Torque Wrench Adapter

JDG909 Lifting Eyes

JDG2061 Front Adapter

JDG11217 Splitting Stand

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Remove IVT Transmission

Install IVT Transmission

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.

JDG19 Lifting Eyes

JDG861 Torque Wrench Adapter

JDG909 Lifting Eyes

JDG2061 Front Adapter

JDG11217 Splitting Stand

JT07211 Rear Differential Support Stand

KJD10539 Support Stand Adapter

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Sealing Instructions

Remove Front PTO Assembly

Install Front PTO Assembly

Remove Differential Case

Install Differential Case

Remove Final Drive

Install Final Drive

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Group 00 - Component Removal And Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Sealing Instructions

Remove Non-Suspended MFWD Axle

Install Non-Suspended MFWD Axle

Essential, Recommended, and Fabricated Tools

→NOTE:

For further information, see SERVICEGARD™ online tool catalog.

Below are tools listed in this group.

JDG909 Lifting Eyes

JT07336 Lift Sling

JT07211 Rear Differential Support Stand

KJD10539 Support Stand Adapter

Other Material

Number	Name	Use
• PM38657 (us) • PM38628 (canadian) • 17430 Loctite™ (us)	High Flex Form-In-Place Gasket	Used to seal contacting surfaces.

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Group 05 - Steering Column

List of References

Below is a list of all items within this group.

Specifications

Repair Steering Column

Repair Steering Column with ActiveCommand Steering (ACS™)

Specifications

Item	Measurement	Specification
Steering Wheel Nut	Torque	32 N·m (25 lb.-ft.)

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Specifications

Remove and Install Filter Housing

Remove and Install Integrated Hydraulic Pump

Remove and Install Transmission Pump

Remove and Install Scavenge and Lube Pump

Remove and Install Mid-Stack Valve

Remove and Install Hitch-SCV Valve Stack

Remove and Install Rear Hitch Frame

Remove and Install Front 3-Point Hitch

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.

D01045AA Disk Set

JDG1574 Lifting Bracket

JDG909 Lifting Eyes

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Group 05 - Hood

List of References

Below is a list of all items within this group.

Specifications

Position Hood Forward

Remove and Install Hood

Remove and Install Grille and Headlight Assembly

Adjusting Front Grille Lights

Aiming Head Lights

Remove and Install Hood Side Panels

Remove and Install Hood Screens

Remove and Install Hood Latch

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Remove Cab

Install Cab

Repair Cab

Remove Inner Roof

Install Inner Roof

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.

JDG19 Lifting Eyes

JT07336 Lift Sling

Other Material

Number	Name	Use
• PM37477 (us) • PM38621 (canadian) • 242 LOCTITE ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Used to retain cap screw.

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Group 05 - Dealer Fabricated Tools

List of References

This list contains dealer fabricated tools used in TM110119.

DF1057—Axle Adjusting Tool

DFRW4—Axle Wheel Hub Tool

DFRW30A—Axle Jacking Tool

DFRW63 - DFRW64 - DFRW65 - DFRW66 - DFRW81—Tap-Out Harnesses

DFRW94—Rear Axle Support Stand

DFRW98—Rear Axle Guide Pin

DFRW132—Differential Side Bevel Gear End Play Tool

DFRW148—ActiveSeat™ Control Valve Holding Tool

DFRW178—Front Brake Bleed Wrench

DFRW213—Hydraulic Trailer Brake Test / Bleed Assembly

DFRW219—Wheel Tightening Stand

DFRW235—MFWD Input Shaft Holding Tool

DFRW236—Front PTO Support Bracket

DFRW237—Differential Drive Shaft Removal Tool

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Foreword

This manual is written for an experienced technician. Essential and recommended tools required in performing certain service work are identified in this manual.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

CAUTION:

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are used to provide service information. The Repair Technical Manual tells how to repair the components. The Operation and Test Technical Manual helps you quickly identify the majority of failures.

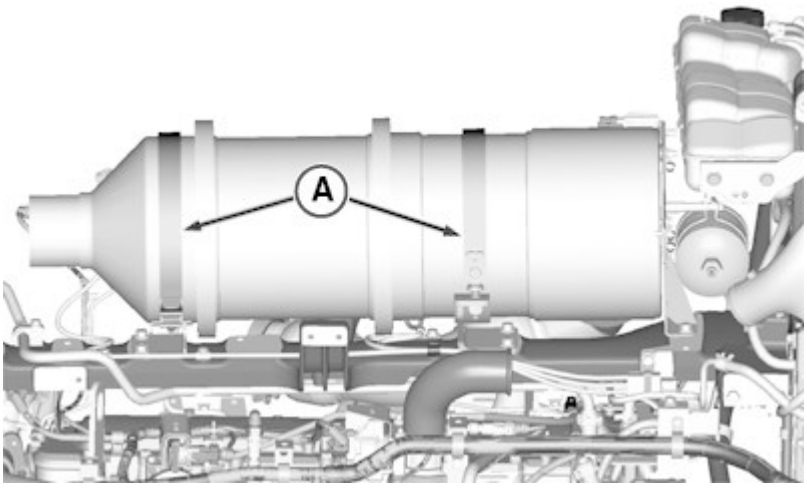
Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential and recommended tools, other material needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

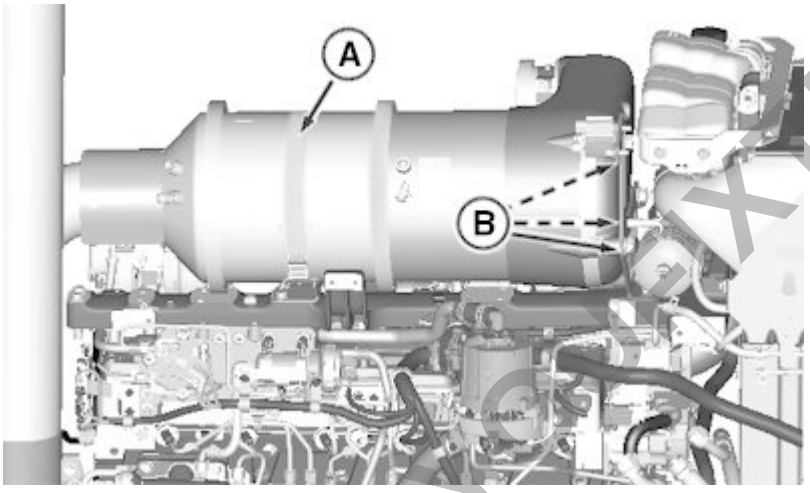
Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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b. 

6.8 L Mounts



9.0 L Mounts

LEGEND:

A	Band Clamps
B	Cap Screws—9.0L (3 used)

Install cap screws (B) and band clamp (A), but do not tighten.

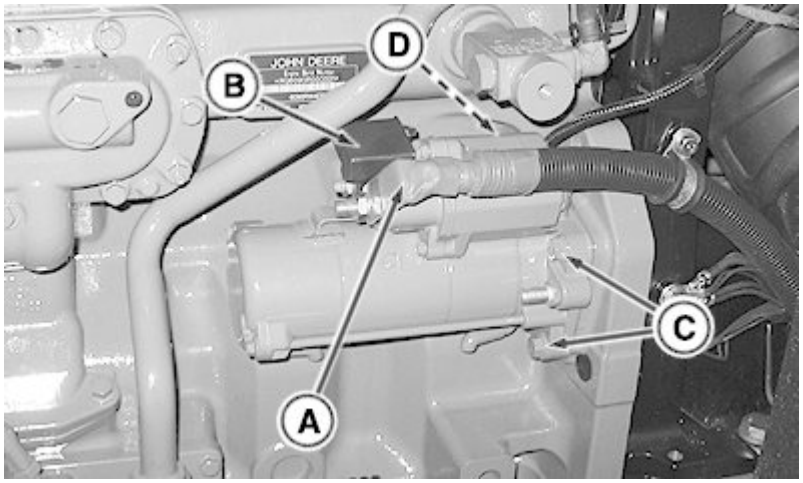
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Remove and Install Starter Motor

[1] -



LEGEND:

A	Battery Cable
B	Solenoid Cover and Wire
C	Cap Screws (2 used)
D	Nut

Open hood and remove rear left-hand side panel.

[2] - Disconnect battery ground (-) cable.

[3] - Remove battery cable (A).

[4] - Remove solenoid cover and wire (B).

[5] - Remove cap screws (C) and nut (D) using JDG2046 Starter Wrench .

[6] - Inspect parts and replace as necessary.

[7] - Install in reverse order and tighten to specification.

Item	Measurement	Specification
Starter Motor Cap Screws	Torque	48 N·m (35 lb.-ft.)

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LEGEND:

A	Park Lock Cable (Yellow)
B	A—B Range Shift Cable (Blue)
C	C—D Range Shift Cable (Green)
D	E Range Shift Cable (40K Tractors) (Red)
E	Clips (4 used)

Install shift cables (A—D).

(A) Yellow—Park Lock, 1st Hole

(B) Blue—A—B Range, 3rd Hole

(C) Green—C—D Range, 2nd Hole

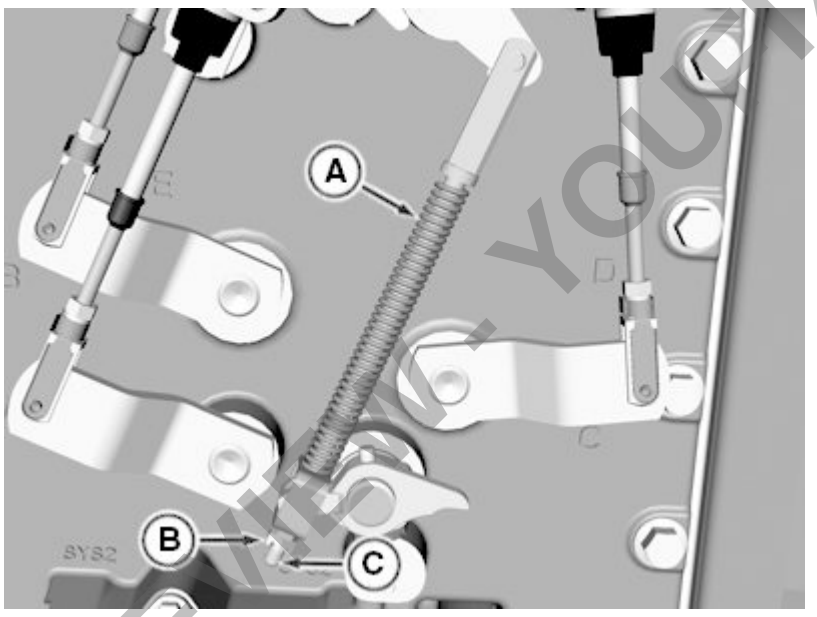
(D) Red—E Range (40K Tractors), 2nd Hole

e. Install clips (E).

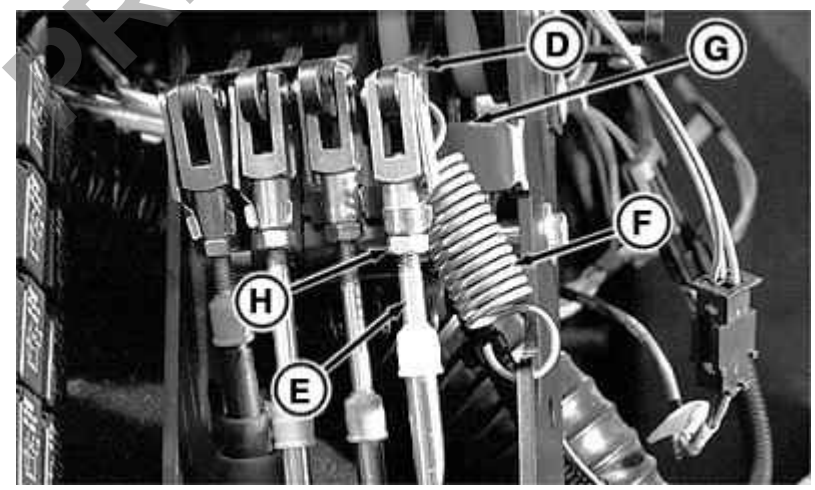
f. Check movement of shift lever.

g. Adjust park lock.

[3] -



Park Lock at Transmission



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[12] -



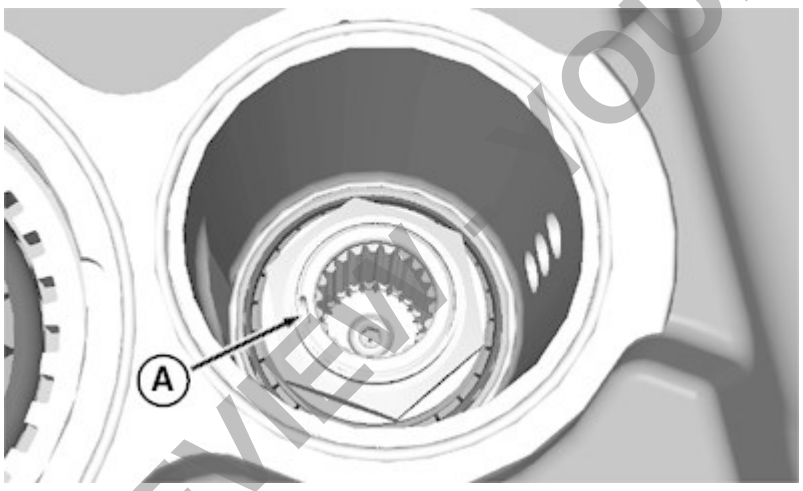
LEGEND:

A	Lock Nut

Install lock nut (A) and tighten to specification.

Item	Measurement	Specification
Lock Nut	Torque	150 N·m (111 lb.-ft.)

[13] -



LEGEND:

A	Slot

Drive lock nut tab into slot (A).

Exploded View—Input Shaft 40 km/h (25 mph) ECO and 50 km/h (31mph)

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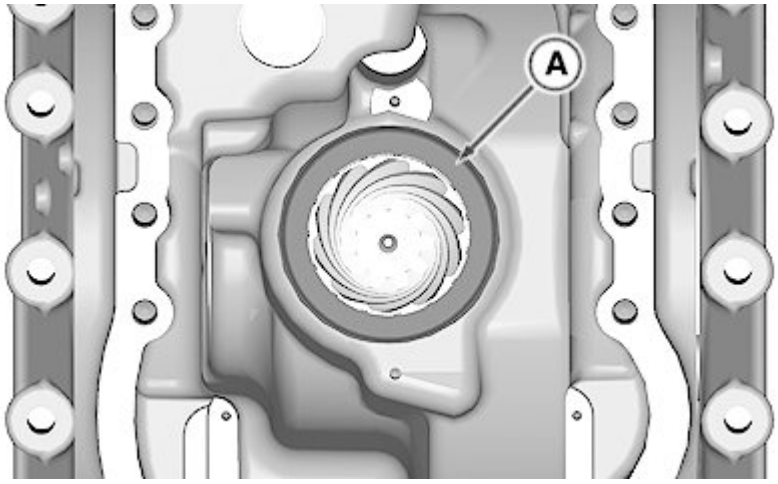
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H	Clutch Plates (11 used)
I	Clutch Disks (10 used)
J	Cap Screws (10 used)
K	Bearing Ball
L	Bearing Cone
M	Ring
N	MFWD Output Shaft
O	Bushing
P	Tone Wheel

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[25] -

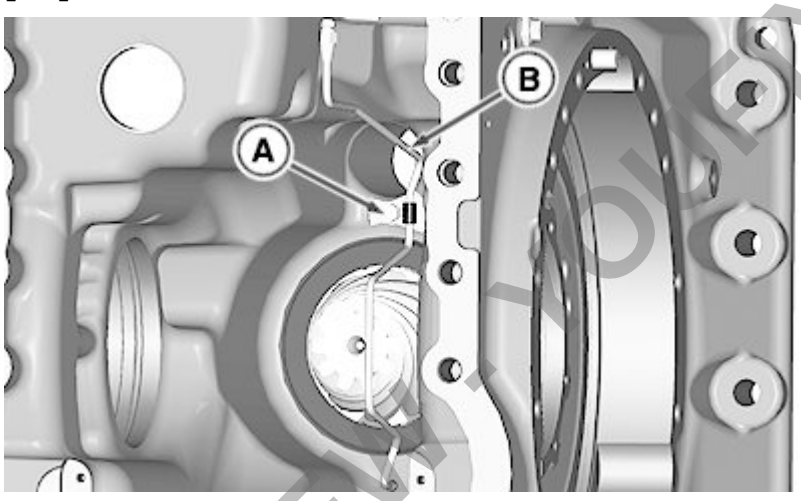


LEGEND:

A	Head Dam Deflector

Use a brass drift to install head dam deflector (A) until fully seated.

[26] -



LEGEND:

A	Cap Screw
B	Line

Lubricate coupler and install oil line (B).

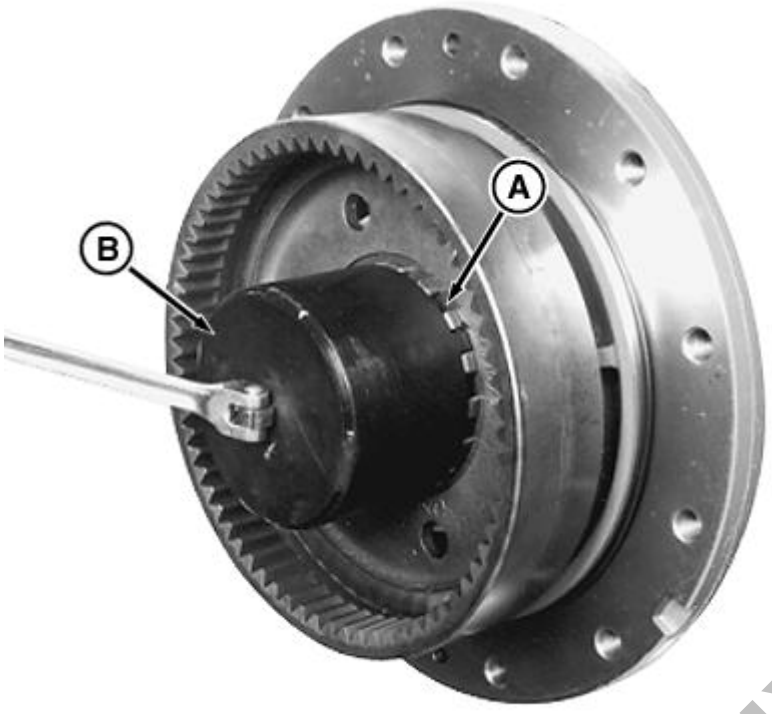
[27] - Install cap screw (A) and tighten to specification.

Item	Measurement	Specification
Oil Line Cap Screw	Torque	35 N·m (26 lb.-ft.)

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[43] -



LEGEND:

A	Ring Gear Retainer Nut
B	JDG1253 Spanner Socket

Install ring gear retainer and remove wheel hub and ring gear clamp.

[44] -

IMPORTANT:

Turning wheel hub before retainer is tightened could result in damage to wheel hub seal.

Tighten ring gear retainer nut (A) to specification , using JDG1253 Spanner Socket (B)**without turning** hub.

Item	Measurement	Specification
Ring Gear Retainer Nut	Initial Torque	126 N·m (92 lb.-ft.)

[45] - Tighten wheel hub retainer to specification**while rotating** wheel hub continuously.

Item	Measurement	Specification
Ring Gear Retainer Nut	Final Torque	176 N·m (130 lb.-ft.)

[46] - Recheck torque while rotating hub in opposite direction a minimum of six revolutions.

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Specifications

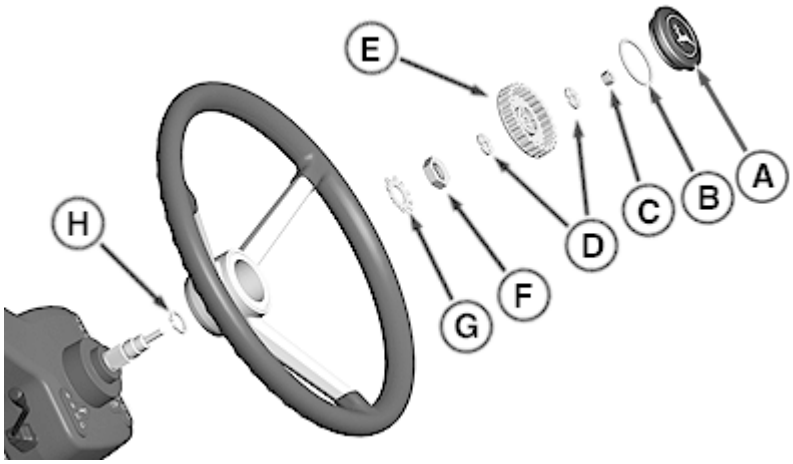
Item	Measurement	Specification
Ring Gear Retainer Nut	Initial Torque	126 N·m (92 lb.-ft.)
Ring Gear Retainer Nut	Final Torque	176 N·m (130 lb.-ft.)
Retainer Lock Screw	Torque	50 N·m (37 lb.-ft.)
Planet Pinion Retaining Cap Screws	Torque	310 N·m (229 lb.-ft.)
Carrier-to-Wheel Hub Cap Screws	Torque	126 N·m (93 lb.-ft.)
Brake Housing Socket Head Screws	Torque	12 N·m (106 lb.-in.)
Wheel Hub Retainer	Initial Torque	126 N·m (93 lb.-ft.)
Wheel Hub Retainer	Final Torque	176 N·m (130 lb.-ft.)
Spacer with Bushing	Distance Below Seal Surface	6—7 mm (0.24—0.27 in.)
Kingpin-to-Knuckle Housing Cap Screws	Torque	542 N·m (400 lb.-ft.)

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Repair Steering Column with ActiveCommand Steering (ACS™)

[1] -



LEGEND:

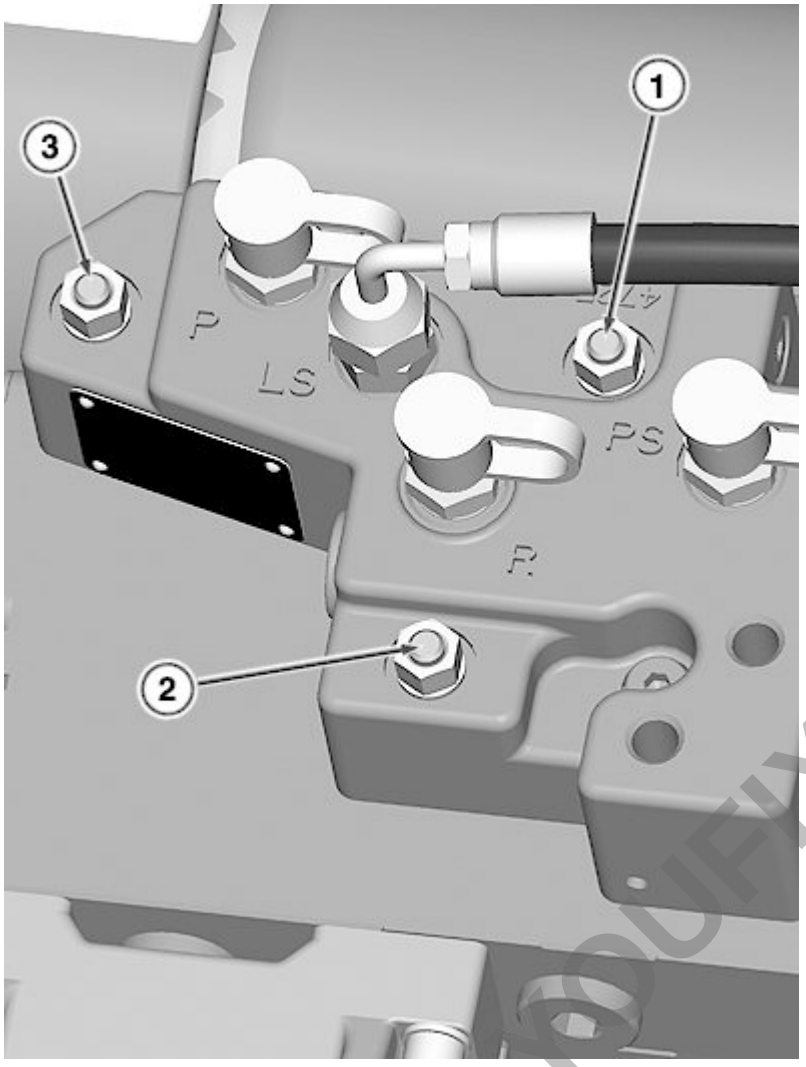
A	Emblem
B	O-ring
C	Nut
D	Special Washers
E	Knob
F	Large Nut
G	Retainer
H	Snap Ring

Remove parts (A—G) to remove steering wheel.

[2] - Remove snap ring (H) from steering shaft.

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Tighten nuts in sequence 1-3 to specification.

Item	Measurement	Specification
Valve Stack Tie-Bolt Nuts	Torque	26 N·m (20 lb.-ft.)

[17] -

IMPORTANT:

Valve stack must be recalibrated with latest version of software if a valve section is replaced or if valve sections positions are changed in valve stack.

Calibrate valve stack sections. (See appropriate SCC or HCC configuration procedure in Diagnostic Technical Manual, Section 245.)

Disassemble and Assemble Hitch-SCV Valve Stack - 3D Animation

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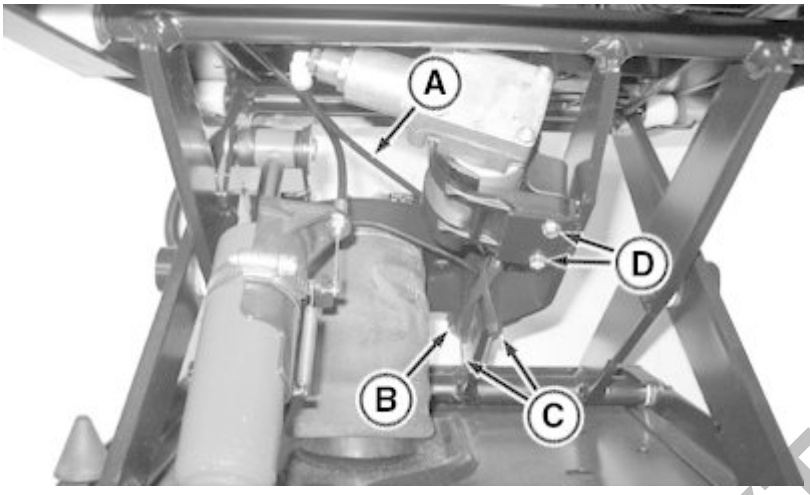
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- Tighten screw (D) carefully, but do NOT overtighten.

[3] -

CAUTION:



LEGEND:

A	Air Line
B	Harness Connector
C	Tie Bands
D	Screws (2 used)

Do not attempt to bleed air system without JDG1424 Support Block in place. It prevents injury from the sudden collapse of the scissors suspension.

Remove and Install Compressor:

- Remove air line (A) from compressor valve.
- Cut tie bands (C) and disconnect compressor harness connector (B) from seat harness.
- Remove screws (D) and remove compressor.
- Install in reverse order using the following special instructions:
  - Slide compressor up against cross-member before tightening screws.

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