Group 05 - Safety

Recognize Safety Information

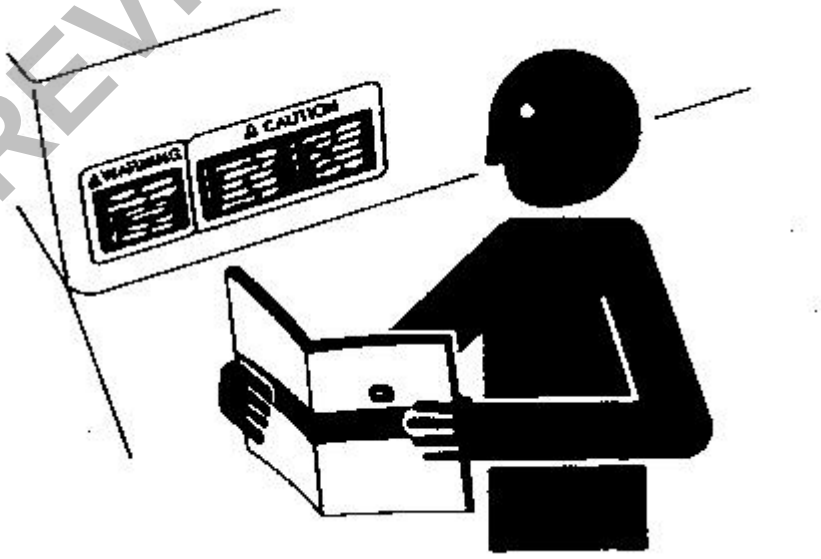


Safety-alert symbol

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.

Follow Safety Instructions



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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 9.0 L Engine

Install 9.0 L Engine

Remove 13.5 L Engine

Install 13.5 L Engine

Remove and Install Engine Oil Pan

Essential, Recommended and Fabricated Tools

→NOTE:

Order tools from the U.S. SERVICEGARD ™ or European Microfiche Tool Catalogs.

Below are tools listed in this group.

JDG23 Lift Sling

JDG820 Flywheel Rotation Tool

JDG10042 Front Lifting Bracket

JDG10199 Rear Engine Lift Bracket

JDG10200 13.5L Front Engine Lift Bracket

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Group 05 - Diesel Fuel System

List of References

Below is a list of all items within this group.

Remove and Install Left Fuel Tank

Remove, and Install Right Fuel Tank

Remove, and Install Crossover 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

Remove Connector Body from Blade Terminals

CAN Controlled SCV Connectors

Repair CINCH™ Wedgebox Connectors

Exploded View—CINCH™ Flexbox Connectors

Repair CINCH™ Flexbox Connectors

Repair CPC™ Blade Type Connectors

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

Repair DEUTSCH™ 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 Connector

Repair SUMITOMO™ Connectors

Repair Tyco Fuel Injector 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 Power Shift Transmission

Install Transmission to Rollover Stand Bracket

Install Power Shift Transmission

Check Transmission Oil Level

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).

JDG19 Lifting Eyes

JT05887 Transmission Mounting Adapter Set

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.

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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 PTO Clutch

PTO-to-Transmission Alignment

Remove and Install PTO Drop Box Assembly

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.

JDG1006 PTO Clutch Housing Lifting Fixture

JDG1327 Alignment Tool Set

Specifications

Item	Measurement	Specification
PTO Clutch Retaining Nut	Torque	125 N·m (92 lb-ft)
Input and Output Shaft Cap Screws	Torque	150 N·m (110 lb-ft)
Transmission Mounting Screws	Torque	350 N·m (258 lb-ft)
PTO Drop Box-to-Frame Cap Screws	Torque	436 N·m (320 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 or Recommended Tools

Specifications

Remove and Install Front Axle Assembly

Remove and Install Rear Axle Assembly

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.

DFRW169—Gudgeon Oscillation Stop

JDG660B Gudgeon Oscillation Stop

JDG882 Mounting Guide Pins

JDG1083 Axle Transport Cart

JT02044 Support Stands

JT05706 Torque Multiplier Wrench

JT05725 Universal Support Stand

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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

Specifications

Item	Measurement	Specification
Steering Wheel Retaining 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

Other Material

Specifications

Remove and Install Hydraulic Oil Reservoir r

Remove and Install Hydraulic Pump (Standard Flow Hydraulic System)

Remove and Install High-Flow Hydraulic Pumps

Fill Hydraulic Pump Crankcase

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.

JDG1079 Lifting Bar

Other Material

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

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Group 05 - Hood and Side Panels

List of References

Below is a list of all items within this group.

Specifications

Position Hood Forward

Remove and Install Hood

Remove and Install Hood Screens and Louvers

Remove and Install Hood Side Panels

Remove and Install Hood Latch

Specifications

Item	Measurement	Specification
Panel Screws	Torque	6 N·m (53 lb-in.)
Grill Screws	Torque	6 N·m (53 lb-in.)
Side Panel Finger Guard Screws	Torque	6 N·m (53 lb-in.)
Hood Latch Retaining Cap Screws	Torque	25 N·m (18 lb-ft)

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Group 00 - Component Removal and Installation

List of References

Essential, Recommended and Fabricated Tools

Other Material

Specifications

Remove Cab

Install Cab

Repair Cab

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.

DFRW92—Mounting Guide Pins

JDG19 Lifting Eyes

JDG23 Lift Sling

JDG882 Mounting Guide Pins

Other Material

Number	Name	Use
• PM37477 (us) • PM38622 (canadian)	Thread Lock and Sealer (Medium Strength)	Retain cab mounting cap screws.

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Group 05 - Hinge

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Other Material

Specifications

Replace Hinge Pins and Bushings

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.

JDG537 Driver Handle

JDG660B Gudgeon Oscillation Stop

JDG758 Bushing Installer

JT05723 Medium-Duty Splitting Stand

JT05725 Universal Support Stand

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Group 05 - Fabricated Tools

List of References

This list contains fabricated tools used in TM2267.

Fabricated Tools

DF1057—Axle Adjusting Tool

DFRW7—Differential Lifting Tool

DFRW20—Compressor Holding Fixture

DFRW30A—Axle Jacking Tool

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

DFRW72—Gudgeon Spindle Cooling Box

DFRW92—Mounting Guide Pins

DFRW94—Rear Axle Support Stand

DFRW103—Yoke Holding Tool

DFRW117—Transmission-Hydraulic Flusher

DFRW132—Differential Side Bevel Gear End Play Tool

DFRW139—Thermal Expansion Valve Replacement Tool

DFRW147—Screw Jack

DFRW148—ACTIVE SEAT™ Control Valve Holding Tool

DFRW150—SCV-Hitch Valve Stack Lifting Bracket

DFRW155—Jumper Leads

DFRW156—Shift Valve Bore Flushing Can

DFRW164—Axle Adjusting Tool

DFRW165—PST Park Brake Pump Off Hose Adapter

DFRW169—Gudgeon Oscillation Stop

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IMPORTANT:

Mating surfaces of sheave and shaft must be clean and free of oil or lubricant when installing drive sheave on shaft.

Make sure that belt remains loose and is not pinched between pulleys.

Install drive sheave (C) making sure that cap screw holes align in sheave.

[18] - Position belt (A) to outer edge of drive.

[19] - Hold drive sheave with wrench and tighten three cap screws to specification.

Item	Measurement	Specification
Drive Pulley-to-Drive Cap Screws	Torque	130 N·m (96 lb.-ft.)

[20] -

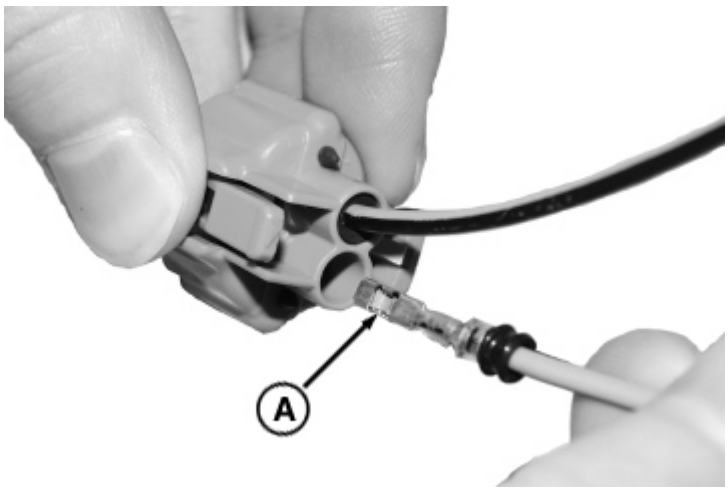
→NOTE:

Belt remains loose on the drives until tractor is started and run.

Check bleed screw to make sure that it is closed and belt is loose between pulleys.

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Inserting Terminal into Connector

LEGEND:

A Terminal

[9] - Make sure terminal (A) is positioned correctly for locking tab inside connector.

[10] - Push terminal into connector body socket until terminal locks.

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Dome Light Switch

LEGEND:

A Roof Trim
B Switch

Lower inner roof trim (A).

[2] - Disconnect switch harness.

[3] - Remove dome light switch (B).

Replace Cab Door Light Switch

[1] -

→NOTE:

Interior cab light door switch (A) is located on left corner post of cab door opening.

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Other Material

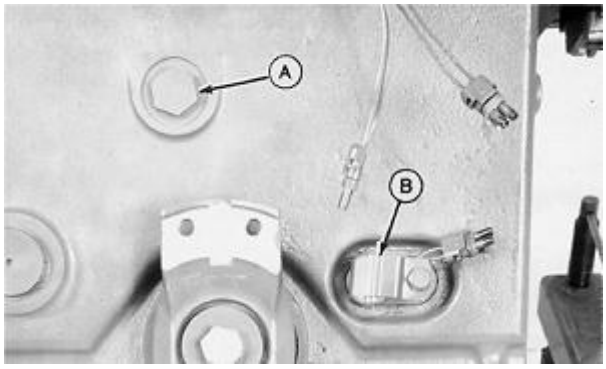
Number	Name	Use
• PM38657 (us) • PM38628 (canadian) • 17430 LOCTITE ™ (loctite)	High Flex Form-In-Place Gasket	Used to seal transmission housings.

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Remove Transmission Top Shaft, Upper Countershaft, Lower Countershaft, and Output Shaft

[1] -



Transmission Speed Magnetic Pickup

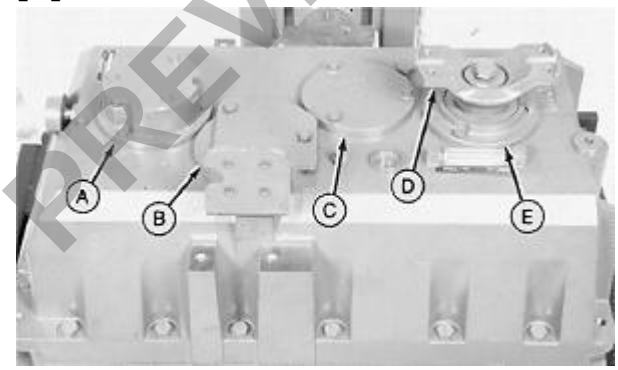
LEGEND:

A Lube Fitting
B Magnetic Pickup

Remove transmission from tractor and install in D05223ST Engine Rollover Stand using JT05887 Transmission Mounting Adapter Set . (See Remove Mechanical Shift Transmission in Group 00.)

[2] - Remove lube fitting (A) and transmission speed magnetic pickup (B) from front of transmission.

[3] -



Transmission Shafts and Rear Yoke

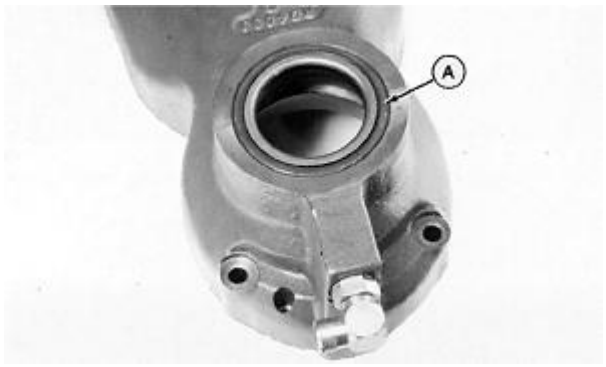
LEGEND:

A Top Shaft Quill
B Upper Countershaft Quill

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IMPORTANT:



PTO Input Shaft Oil Seal



Seal Installer Set

LEGEND:

A Oil Seal
B JDG673 Seal Installation Set
C Sleeve

Ensure all material is removed from sealing surface and seal lips if any coating is scraped off outside diameter of seal during installation.

Install PTO input shaft oil seal (A) into front PTO housing using a JDG673 Seal Installer Set (B) with spring side of seal facing toward housing. Internal tapered end of sleeve (C) should point AWAY from input shaft.

[14] - Coat lips of seal with multipurpose grease before installing input gear.

[15] -

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Internal Snap Ring

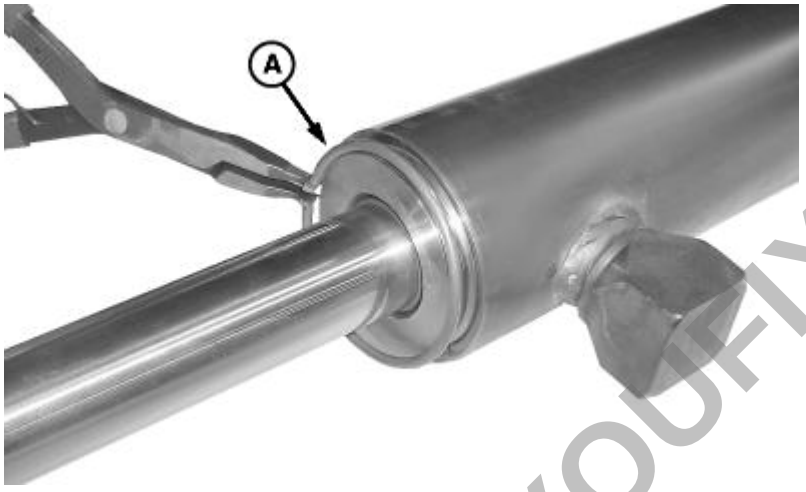
LEGEND:

A Internal Snap Ring

Install snap ring (A). Snap ring must be seated in barrel groove.

[28] - Pull rod until rod guide is seated against snap ring.

[29] -



External Snap Ring

LEGEND:

A External Round Snap Ring

Install external round snap ring (A).

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Install new O-rings (B and C) when assembling valve stack.

[11] -

IMPORTANT:

DO NOT interchange check valves (A) with other series valves. A wrong size shuttle can cause a malfunction.

IMPORTANT:

Do not install check valve (A) on machines with standard top end cover unless tractor is equipped with power beyond or hydraulic trailer brakes. Install check valve (A) with all deluxe end covers.

Check to make sure check valve (A) is correctly positioned.

[12] -

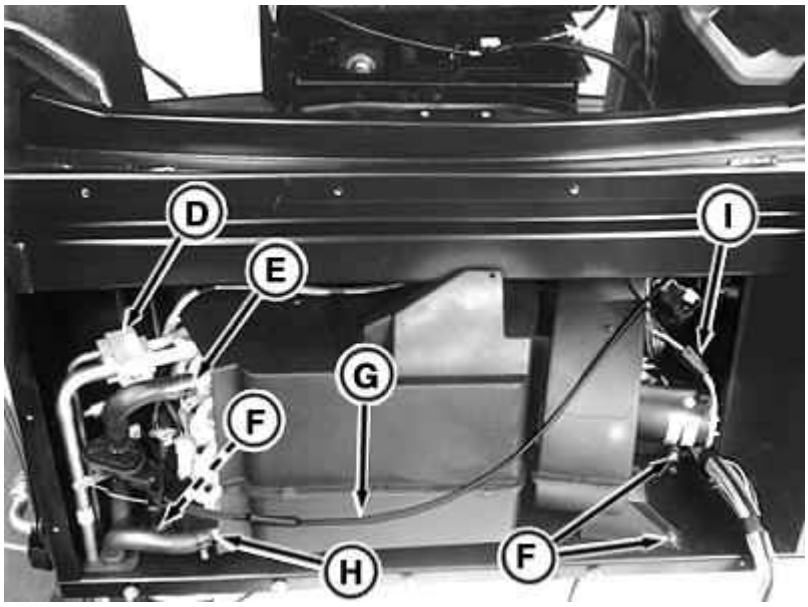
IMPORTANT:

Do not allow valve sections or cover to tip while drawing nuts down.

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Rear Cab Panel—Resistor & Thermostat



Rear of Cab—Access to HVAC Module

LEGEND:

A	Thermostat
B	Resistor
C	Cap Screw
D	Expansion Valve
E	Inlet Hose
F	Cap Screws
G	Outlet Hose
H	Heater Control Cable
I	Fan Connector

For Tractors Without CLIMATRAK ™ :

- Disconnect thermostat (A) and blower speed resistor (B).
- Remove module front mounting cap screw (C).
- Remove socket head cap screw and plate from expansion valve (D). Pull high- and low-pressure lines from expansion valve and cap to prevent contamination.
- Clamp off heater inlet hose (E) and disconnect from module.
- Clamp off heater outlet hose (H) and disconnect from module.
- Disconnect blower motor connector (I).
- Remove two module rear mounting cap screws (F).
- Slide HVAC module to right and remove from cab.

[12] -

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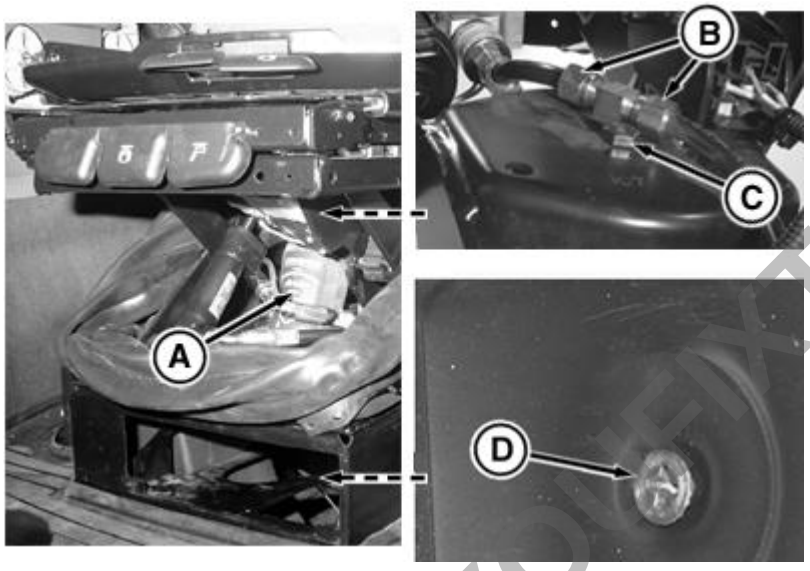
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Pull boot down and install JDG1424 Support Block (A) into either lower rail and tighten setscrew.

- Relieve pressure from air spring using height adjustment switch.

[2] -

⚠ CAUTION:



Replace Air Spring

LEGEND:

A	Air Spring
B	Air Line
C	Cap Screw
D	Screw

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 Air Spring:

- Remove air line (B) from air spring (A) to bleed.
- Remove cap screw (C).
- Remove screw (D) from bottom of air spring by reaching through tool compartment under seat.
- Inspect and replace air line as necessary.
- Install in reverse order using the following special instructions:
- Tighten air line fitting (if removed) one full turn past hand tight.

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