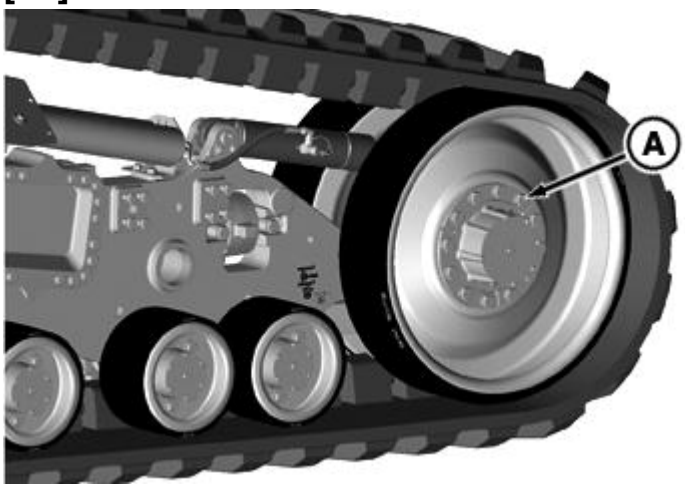
[14] -



Outer Idler Cap Screws

LEGEND:

A Idler Wheel Cap Screws

Install outer idler wheel and hand tighten cap screws (A).

[15] - Tension track. (See Track Tensioning and De-tensioning in Group 05.)

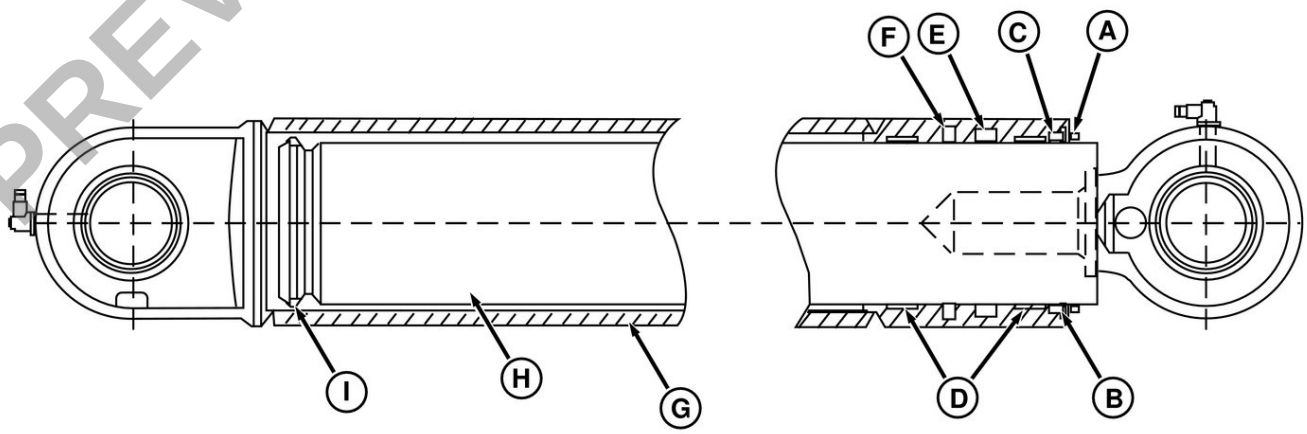
[16] - Tighten idler wheel cap screws (A) to specification using a JT05706 Torque Multiplier Wrench .

Item	Measurement	Specification
Idler Wheel Cap Screws	Torque	1050 N·m (775 lb.-ft.)

[17] - Install idler wheel weights, if equipped.

[18] - Remove tractor from support stands.

Cross-Sectional View—Track Tension Cylinder



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Specifications

Item	Measurement	Specification
Engine Lift Bracket Cap Screws—13.5 L	Torque	120 N·m (90 lb.-ft.)
Mount-to-Frame Cap Screws—13.5 L	Torque	325 N·m (240 lb.-ft.)
Front Mount-to-Engine Cap Screws—13.5 L	Torque	300 N·m (220 lb.-ft.)
Damper-to-Flywheel Cap Screws—13.5 L	Torque	101 N·m (75 lb.-ft.)

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[14] - Close valves for service brake diagnostic receptacles.

[15] - Release brake and shut off engine.

[16] - Remove equipment and check brakes. (See Check Brakes in this group.)

Check Brakes

[1] - Stop engine and wait at least 10 seconds.

[2] - Apply force to brake pedal for 5 seconds and release.

[3] - Apply pressure again. Less pedal travel should be observed during second application.

[4] - Release brake pedal and start engine.

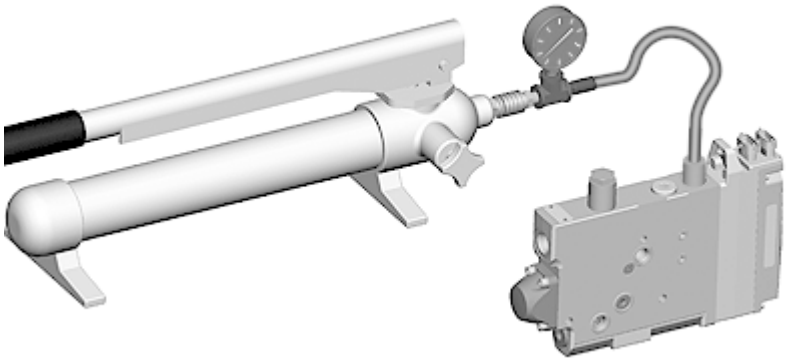
[5] - Apply and hold pressure on brake pedal and shut off engine.

[6] - If pedal travel is greater than 33 mm (1.3 in.) in 10 seconds, check for leakage in brake circuit.

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[1] -



Test Surge Relief Valve

Connect D01019AA Manually Operated Hydraulic Pump to hitch valve port.

[2] - Operate hand pump to check pressure.

Item	Measurement	Specification
Surge Relief Valve	Pressure	22800-23800 kPa 228—238 bar (3307—3452 psi)

[3] - Add or remove shims under surge relief valve spring cap as necessary or repair valve. (See Service Surge Relief Valve in this group.)

Test Surge Relief Valve - 3D Animation

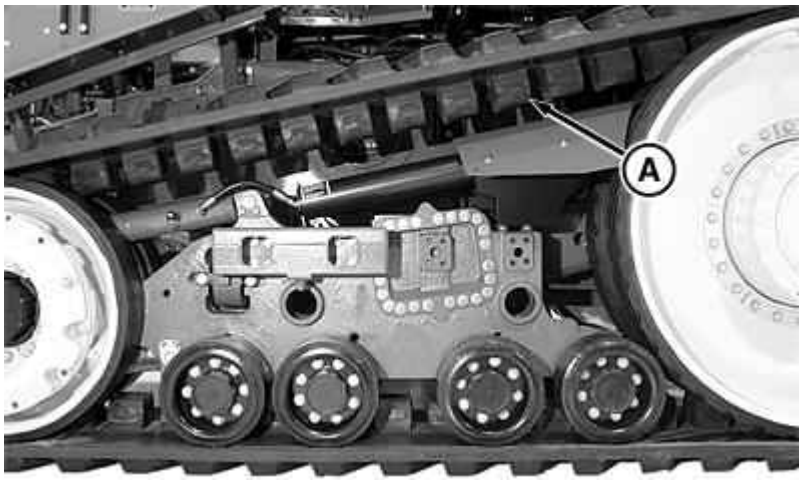
If you can`t open video, download and install CATIA Composer Player>

Test Surge Relief Valve

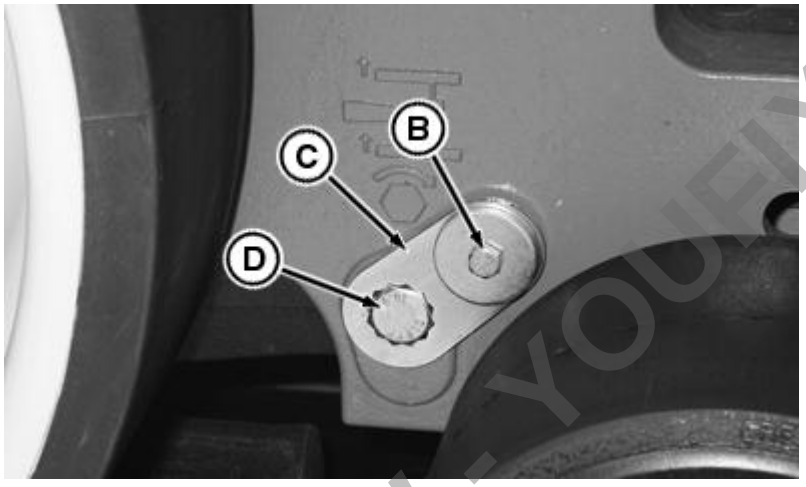
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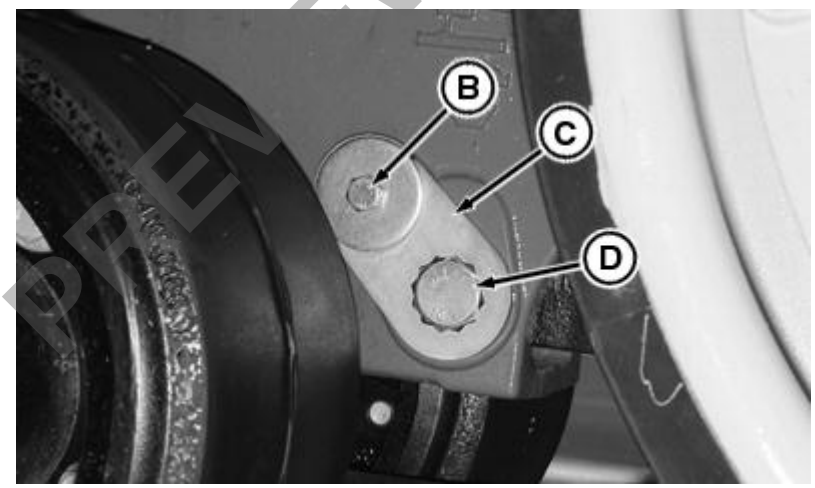
Adjust Track Alignment



Track Alignment



Outside Track Frame



Inside Track Frame

LEGEND:

A Guide Lugs
B Cap Screw

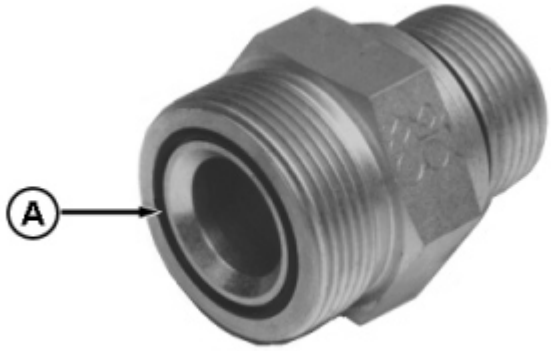
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Install Hydraulic Fittings

[1] -



Hydraulic Fitting O-Ring Face

LEGEND:

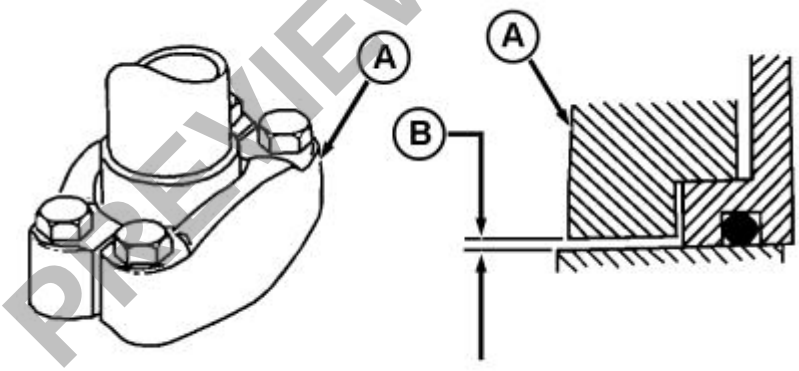
A O-Ring

Inspect O-ring (A) for damage on all O-ring seal connectors and fittings.

[2] - Lubricate O-ring before installing connectors and fittings.

[3] - Torque fittings to specification. (See Metric Face Seal And O-Ring Stud End Fitting Torque Chart—Standard Pressures , Metric Face Seal and O-Ring Stud End Fitting Torque Chart—High Pressure Applications , SAE Face Seal and O-Ring Stud End Fitting Torque Chart—Standard Pressures and SAE Face Seal and O-Ring Stud End Fitting Torque Chart—High Pressure Applications in Section 10, Group 05.)

[1] -



Hydraulic Fitting—Flange Head

LEGEND:

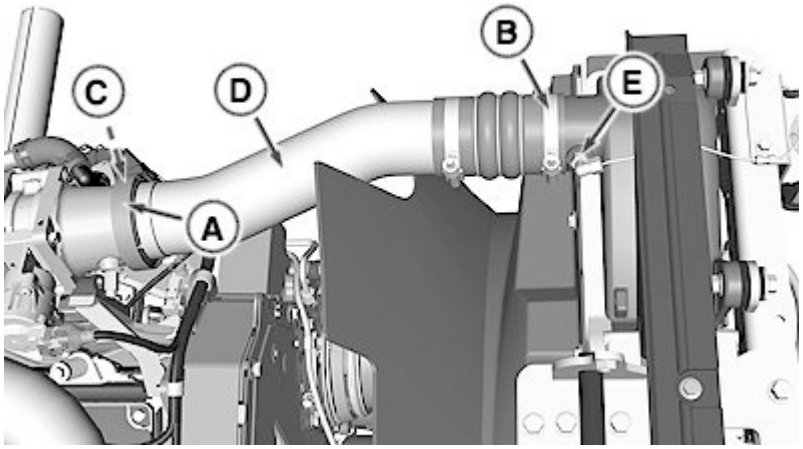
A Flange Clamps
B Clearance

Install flange head connectors squarely against sealing surface.

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[8] -



Upper Charge Air Cooler Hose

LEGEND:

A	Flange Clamp
B	Hose Clamp
C	Gasket
D	Upper Charge Air Cooler Pipe
E	Starting Fluid Line

Remove flange clamp (A) and hose clamp (B).

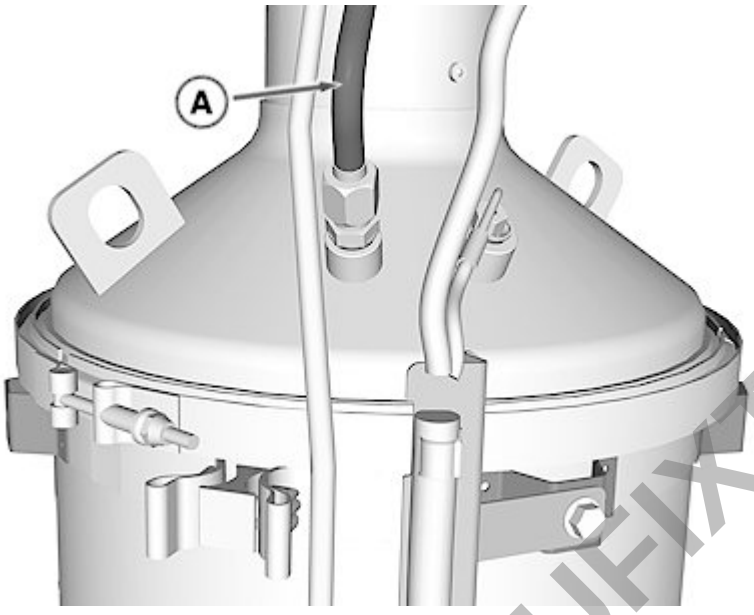
[9] - Remove gasket (C) and upper charge air cooler pipe (D).

[10] - Remove starting fluid line (E).

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Item	Measurement	Specification
12 mm Temperature Sensor	Torque	35 N·m (26 lb.-ft.)
14 mm and 16 mm Temperature Sensors	Torque	45 N·m (33 lb.-ft.)

I. 

Outlet Pressure Line



Inlet Pressure Line

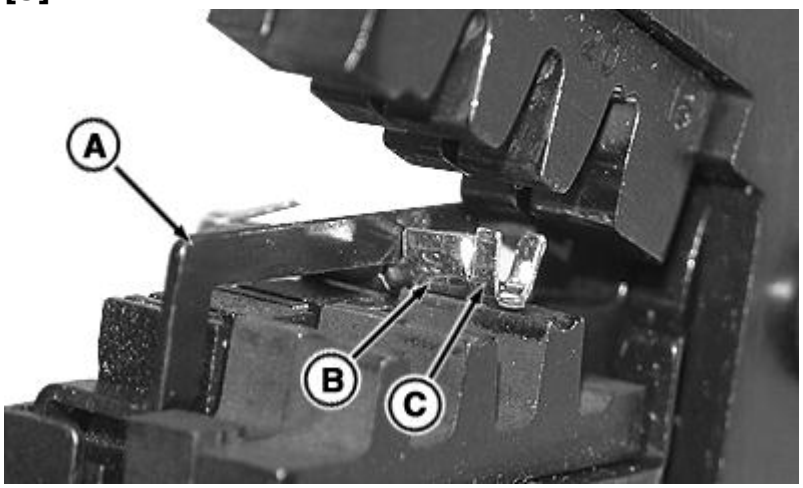
LEGEND:

A Outlet Pressure Line
B Inlet Pressure Line

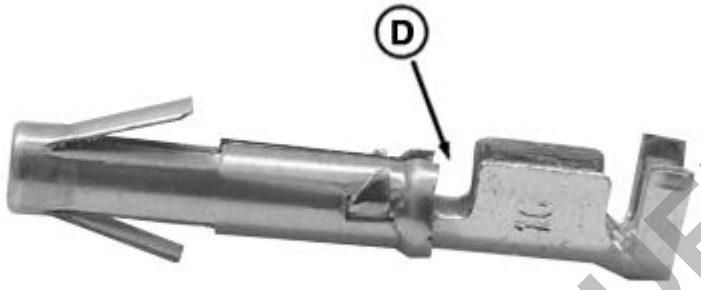
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[5] -



JDG10198 Terminal Crimping Tool



ITT Connector Terminal

LEGEND:

A	Locator Blade
B	Terminal
C	Crimp Wings
D	Notch

Replace terminal: Remove old contact and strip 3 mm (1/8 in.) of insulation from wire using JDG145 Universal Electrical Pliers.

[6] - Grip JDG10145 Terminal Crimping Tool securely, and squeeze ratcheting mechanism completely. Then allow it to open completely.

[7] - With tool in ready position (open handle), lift locator blade (A).

[8] - Insert terminal (B) into JDG10145 Crimping Tool, crimp wings (C) facing up.

[9] -

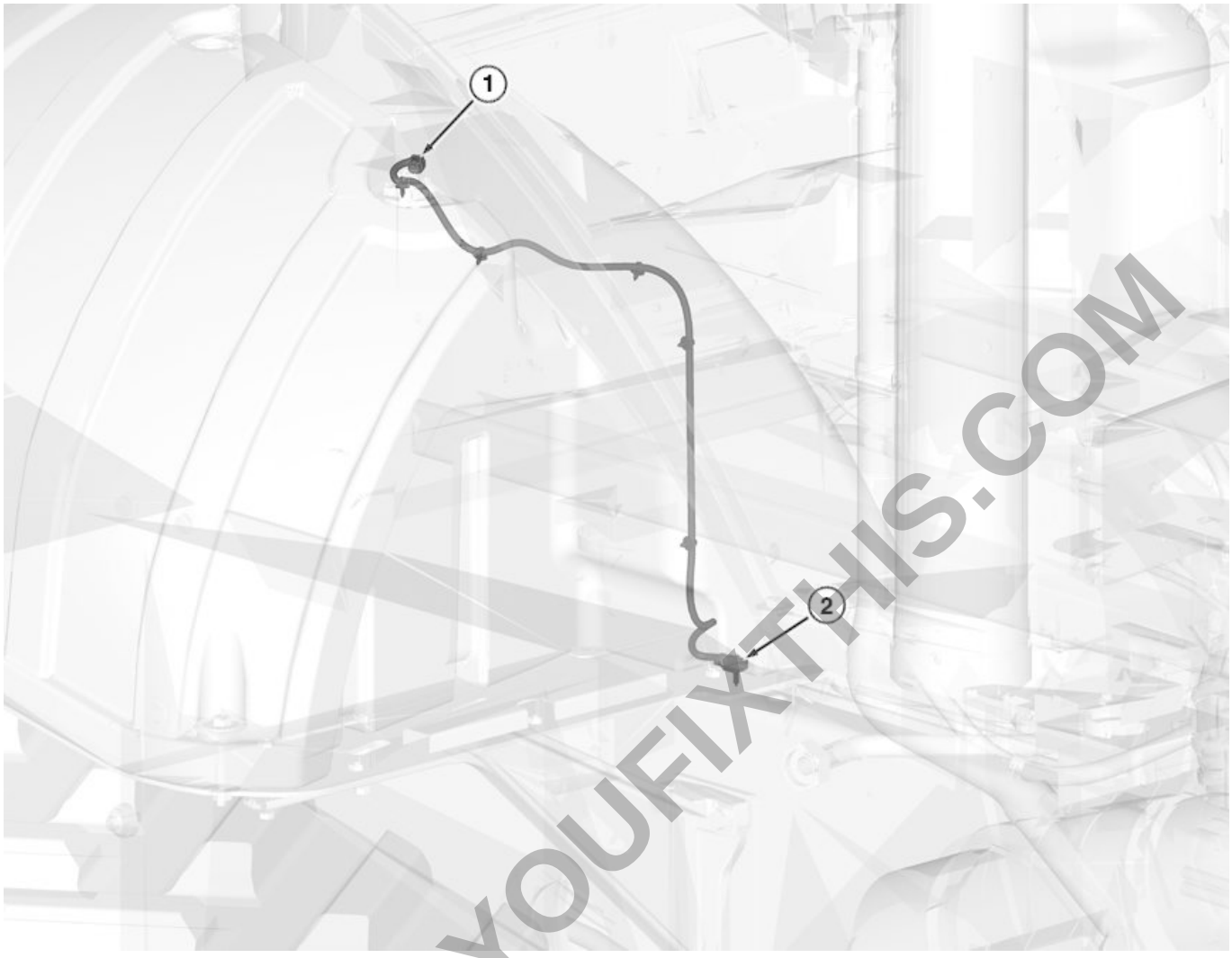
→NOTE:

Locator blade (A) should be inserted into notch (D) of terminal when closed.

Close locator blade (A).

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Fuel Level Sensor Extension Harness

LEGEND:

1 Fuel Level Sensor
2 Chassis to Fuel Level Sensor Extension Harness

Autoload™ Harness

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Calibration & Test Procedures References

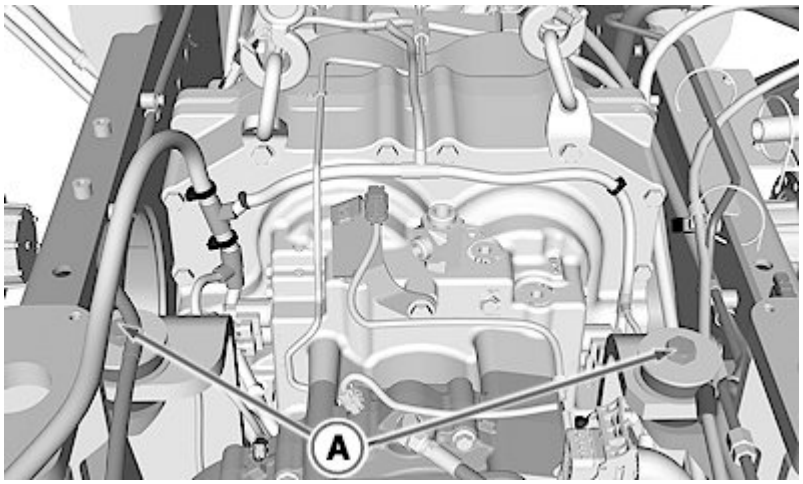
FOR CALIBRATION AND TEST PROCEDURES SEE APPROPRIATE SECTION IN OPERATION AND TEST TM

AIC	Section 245
ATC	Section 245
ASU	Section 245
CAB	Section 245
CCU	Section 245
CLC	Section 245
CSM	Section 245
ECU	Section 245
EIC	Section 245
FCC	Section 245
HCC	Section 245
JDL	Section 245
OIC	Section 245
PDU	Section 245
PTP	Section 245
RLC	Section 245
RPT	Section 245
SCC	Section 245
SFA	Section 245
SMV	Section 245
TEC	Section 245
TIP	Section 245
TMA	Section 245
TMB	Section 245
TSA	Section 245
TSB	Section 245
VLC	Section 245
VTI	Section 245

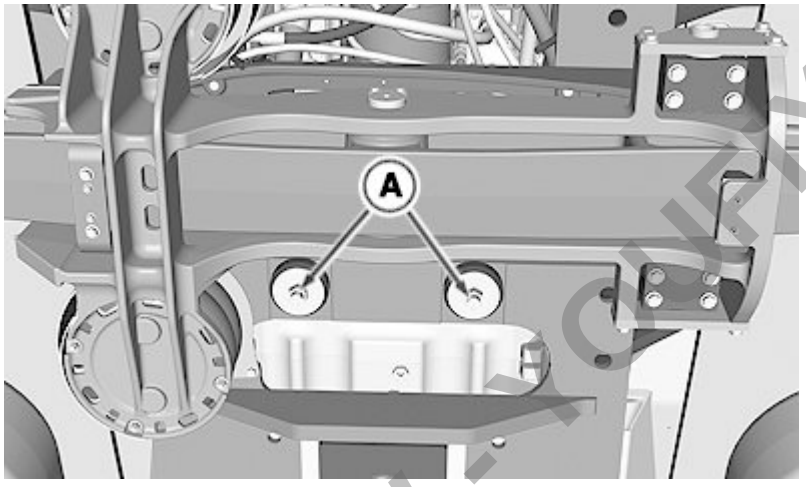
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Install Transmission



Installing Transmission



Transmission Mounts

LEGEND:

A Cap Screws (4 used)

[1] - Lower transmission ensuring that all wiring harnesses and hoses are clear of transmission.

[2] - Apply PM37477 thread lock and sealer (medium strength) to cap screws (A) and install. Tighten to specification.

Number	Name	Use
• PM37477 (us) • PM38622 (canadian) • 242 Loctite™ (loctite)	Thread Lock and Sealer (Medium Strength)	Retain cap screws.

[3] - Tighten cap screws (A) to specification.

Item	Measurement	Specification
Mount-to-Frame Cap Screws	Torque	350 N·m (258 lb.-ft.)

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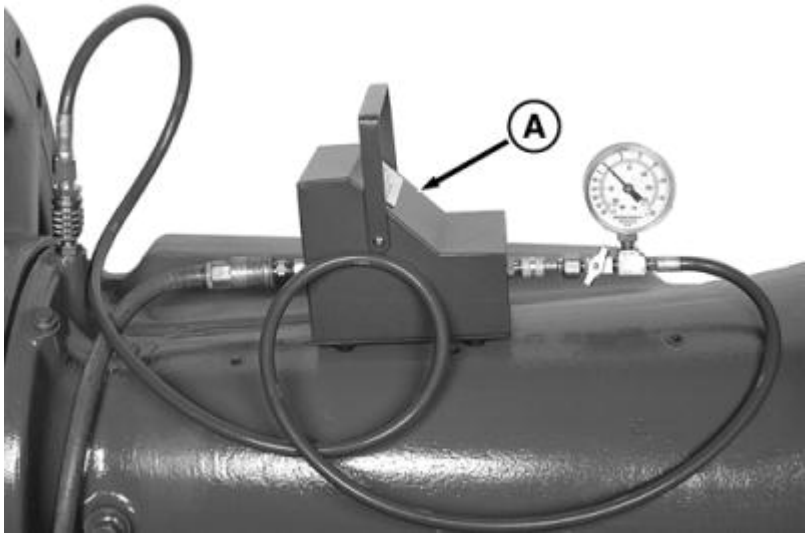
Specifications

Item	Measurement	Specification
Valve-to-Housing Cap Screws	Torque	25 N·m (221 lb.-in.)
Valve Retainer Clamp Cap Screw	Torque	50 N·m (37 lb.-ft.)
Lube Valve Outer Spring	Free Length	24 mm (0.9 in.)
	Test Length	19.4 mm at 119—145 N (0.76 in. at 27—33 lb.-force)
Lube Valve Inner Spring	Free Length	51 mm (2 in.)
	Test Length	35.6 mm at 52—64 N (1.40 in. at 11.7—14.3 lb.-force)
Lube Valve Plug	Torque	34 N·m (25 lb.-ft.)

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Vacuum Leakdown Test



Vacuum Test Kit

LEGEND:

A Vacuum Test Kit

→NOTE:

Vacuum leakdown test should be used before proceeding with installation of brake components.

[1] - Verify test kit is operating correctly and there are no leaks in lines or fittings.

[2] - Remove service brake inlet fitting and ensuring service brake bleed inlet is plugged.

[3] - Install diagnostic receptacle fitting from JT07250 Vacuum Test Kit (A).

[4] - Connect test kit to diagnostic receptacle and an air source capable of 600 kPa (6 bar) (90 psi).

[5] - Open vacuum line valve and operate pump until a minimum vacuum of 68 kPa (20 in. of Hg) is indicated on gauge.

[6] - Close valve and observe gauge.

[7] - Let vacuum stabilize. After vacuum has stabilized, NO LEAKDOWN is permissible.

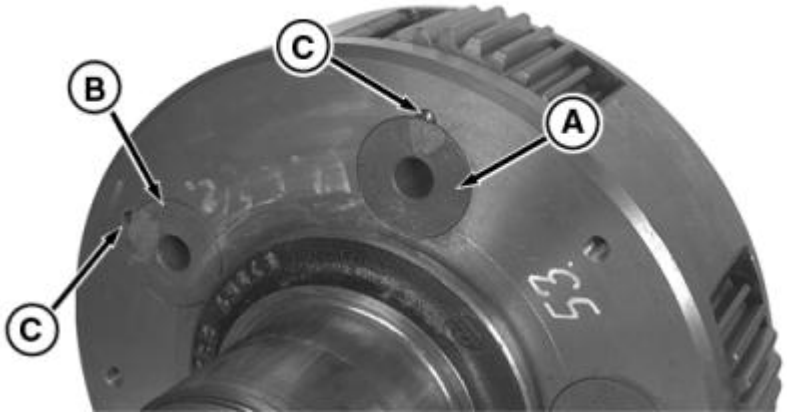
[8] - If leakdown is observed, inspect all test kit fittings, brake piston, packing rings, and piston bore. Remove, replace, and install new parts as necessary.

[9] - If NO leakdown is observed, remove test kit and proceed with installation of brake components.

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[3] -



Remove Pinion Shafts

LEGEND:

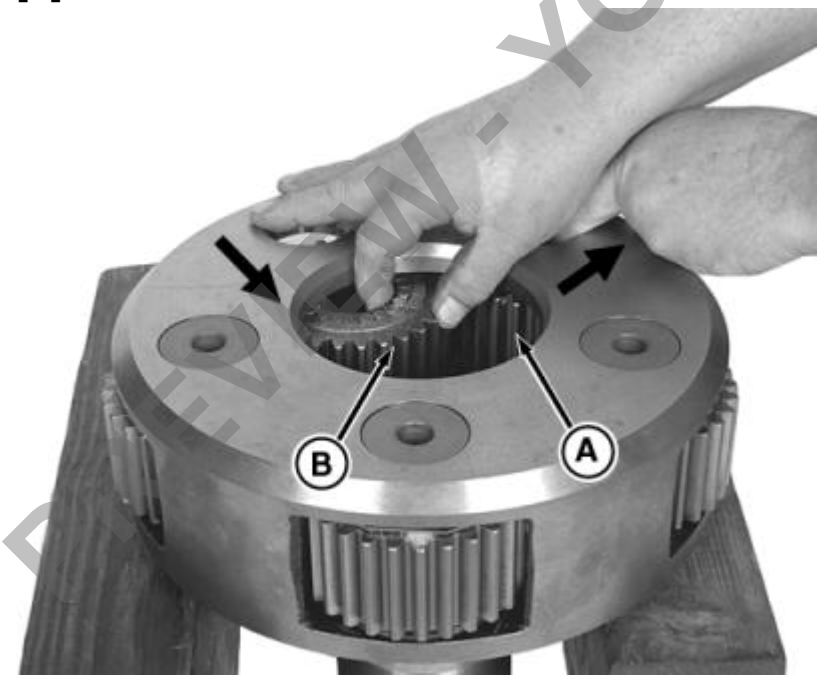
A First Pinion Shaft
B Second Pinion Shaft
C Steel Balls

Using a press, remove pinion shafts (A and B) and steel balls (C).

[4] - Remove steel balls (C).

[5] - Remove pinion shafts (A and B) from carrier.

[6] -



Remove Pinions

LEGEND:

A First Pinion Assembly
B Second Pinion Assembly

Force first pinion assembly (A) outward.

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Install Ring Gear Retaining Cap Screws

LEGEND:

A Special Cylindrical Cap Screws (12 used)

Install special cylindrical cap screws (A) with nuts and tighten to specification.

Item	Measurement	Specification
Ring Gear-to-Spool Cap Screws	Torque	390 N·m (288 lb.-ft.)

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[72] -

→NOTE:

No specific piston and bore orientation is required since pistons and bores are not selectively fitted.

Install yoke and piston assemblies (A) in cylinder block (B).

[73] -



Servo Piston



Bronze Slider Block

LEGEND:

A Servo Piston
B Slider Block

Install servo piston (A) into pump housing.

[74] - Install bronze slider block (B) onto servo arm of yoke assembly.

[75] -

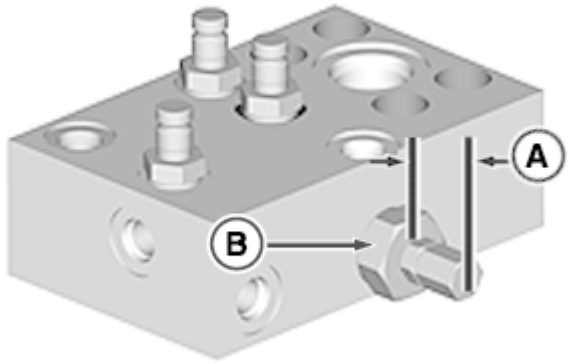
→NOTE:

A second person will be needed to help align slider block into servo piston during yoke installation.

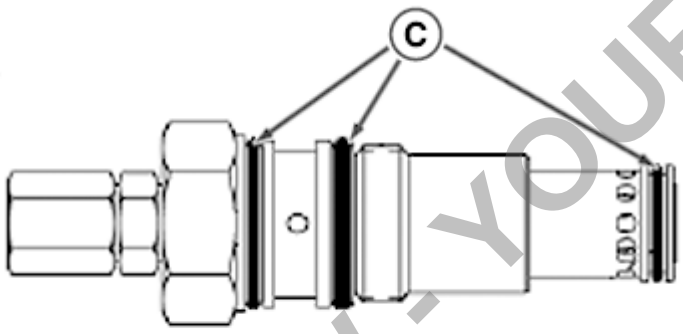
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Repair Brake Pressure Reducing Manifold



Brake Pressure Reducing Manifold



Brake Pressure Reducing Valve

LEGEND:

A Dimension
B Brake Pressure Reducing Valve
C O-rings (3 used)

[1] - Measure and record dimension (A).

[2] - Remove brake pressure reducing valve (B).

[3] - Inspect parts and replace as necessary.

[4] - Lubricate O-rings (C) with clean hydraulic oil.

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[2] - Disconnect Sensor (C).

[3] - Label and disconnect lines (D) and hoses (E).

[4] - Remove cap screws (F) and oil cooler bypass valve (G)

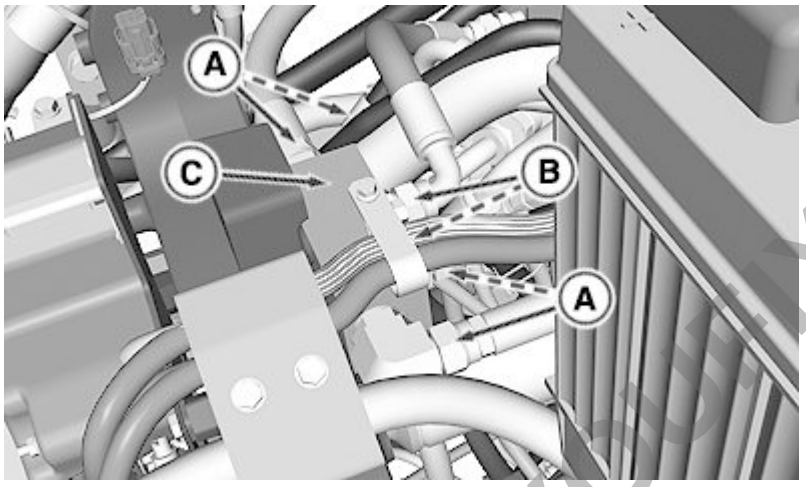
[5] - Replace O-rings as needed and assemble in reverse order.

Remove and Install Front Return Valve

[1] -

IMPORTANT:

Front Return valve is located on Crossover Frame rear of engine.



Front Return Valve

LEGEND:

A	Hoses (5 used)
B	Cap Screws (2 used)
C	Return Valve

Identify label and disconnect hoses (A) from return valve.

[2] - Remove cap screws (B) remove return valve (C).

[3] - Inspect valve for damage or contamination.

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[5] - Inspect parts and replace as necessary.

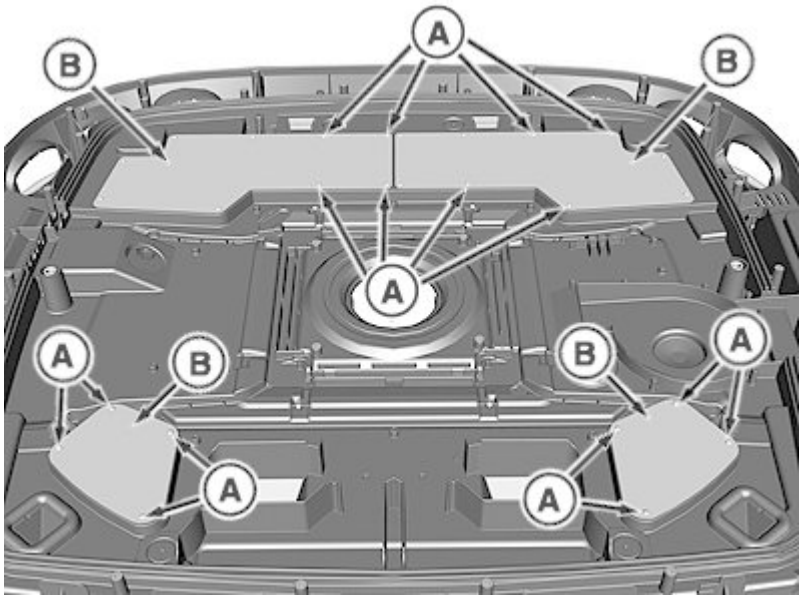
[6] - Install in reverse order. Tighten screws to specification.

Item	Measurement	Specification
Finger Guard Screws	Torque	5 N·m (44 lb.-in.)
Panel Screws	Torque	17 N·m (150 lb.-in.)
Grille Screws	Torque	5 N·m (44 lb.-in.)
Hood Support Nuts	Torque	25 N·m (221 lb.-in)

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[44] -



Speaker Covers

LEGEND:

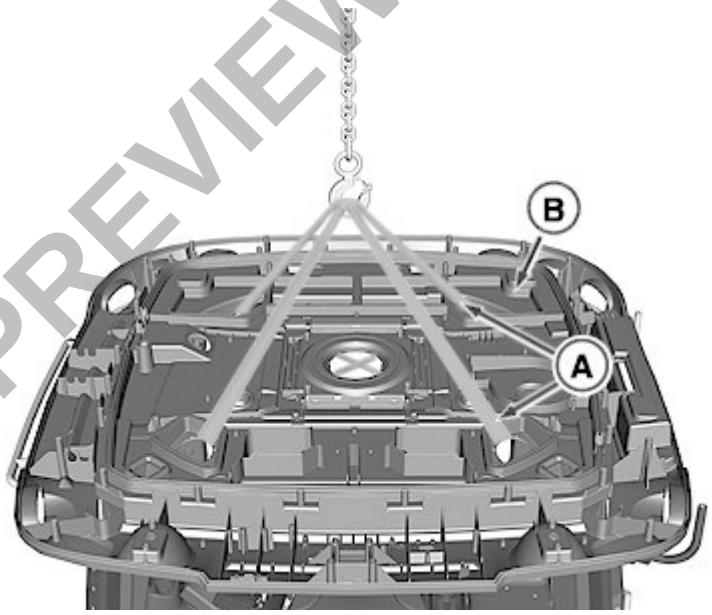
A Screws (24 used)
B Speaker Covers (4 used)

Remove screws (A) and speaker covers (B).

[45] -

⚠ ***CAUTION:***

Inner roof weighs approximately 46 kg (101 lb.). Use caution when handling.



Lifting Inner Roof

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Group 25 - Armrest

List of References

Below is a list of all items within this group.

Remove and Install Left Hand Armrest

Remove and Install Left Hand Armrest



Left Hand Tip-Up Armrest

LEGEND:

A Armrest
B Cap Screws (2 used)

[1] - Identify, label, and disconnect wiring harness from armrest (A).

[2] - Remove cap screws (B) and remove armrest.

[3] - Recondition armrest, (See Replace Seat Raise/Lower Switch and Replace Heated Seat Switch in Section 40, Group 25.)

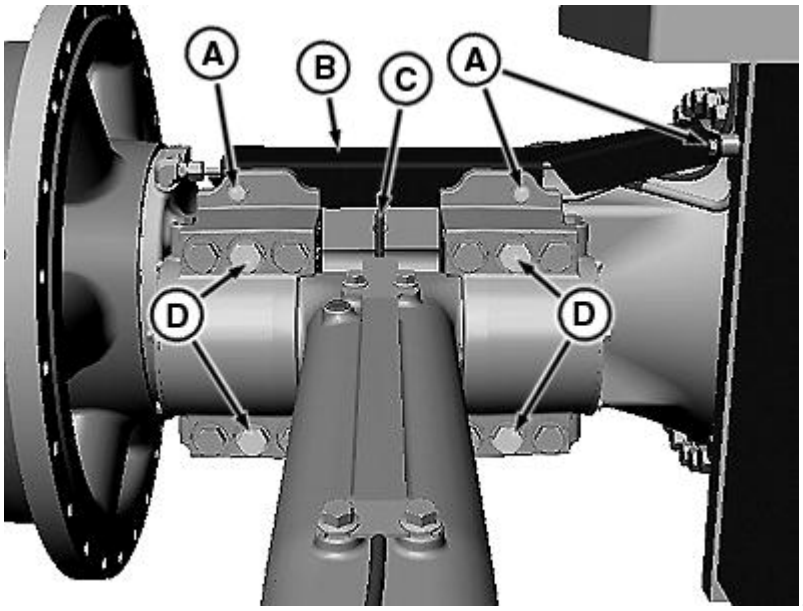
[4] - Install in reverse order.

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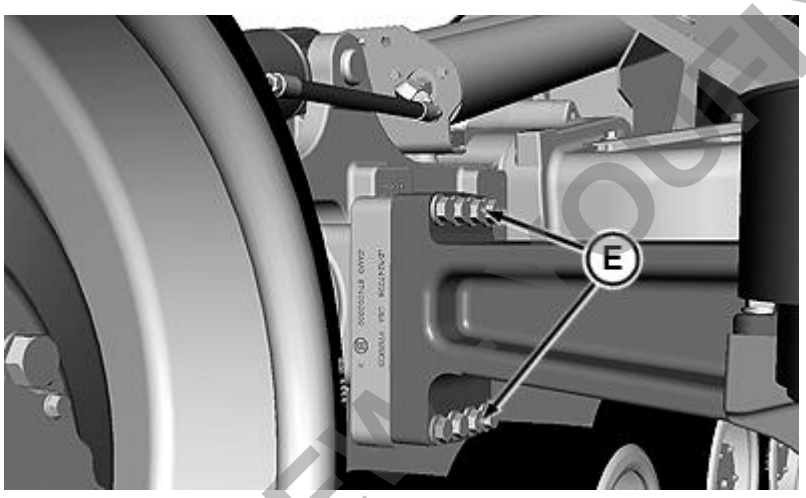
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Repair Pillow Block

[1] -



Pillow Block



Walking Beam-to-Track Frame Bushing

LEGEND:

A	Cap Screws (3 used)
B	Shield
C	Tension Sensor Harness
D	Cap Screws (12 used)
E	Cap Screws (8 used)

Place tractor on support stands. (See Install Support Stands in Group 05.)

[2] - De-tension track. (See Track Tensioning and De-tensioning in Group 05.)

[3] - Remove track. (See Remove and Install Track in Group 05.)

[4] - Remove drive wheel. (See Remove and Install Drive Wheel in Group 05.)

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T—JT05679 Hose (2 used) 12-foot with 1-1/16-12 (F) JIC ends

T—Alternate — (For Hoses with 3/4 (M) NPT Ends). Obtain from SERVICEGARD or locally

—Base —1-1/2 in. x 9 in. x 22 in. board with 1-1/2 in. x 3-1/2 in. boarder on underside

—Hardware —Determine bolts, screw, and flat washer sizes

Assemble the above material on the base with correct hardware. Use large flat washers on bottom side of base.

Weld connector (J) and (K).

Align the drive coupler to within 1° from straight. Maximum misalignment of pump to motor shaft centers is 0.38 mm (0.015 in.).

Fabricate a mounting bracket from 3/16 in. x 3 in. flat iron for the filter housing which can also be a shield for covering the drive coupling.

Fabricate a brace to support the suction side of the strainer.

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