6100D, 6110D, 6115D, 6125D & 6130D (Tier 0 - Tier III-Stage IIIA) Tractors (Repair Only)

REPAIR MANUAL

6130D, 6115D, 6100D, 6110D, 6125D (S.N. 060000-)

TM608819 30NOV14 (ENGLISH)

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John Deere Agriculture

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Practice Safe Maintenance



Keep Area Clean

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet , and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Use Proper Tools

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Group 10 - General Information

Sealants and Adhesives Cross-Reference Chart

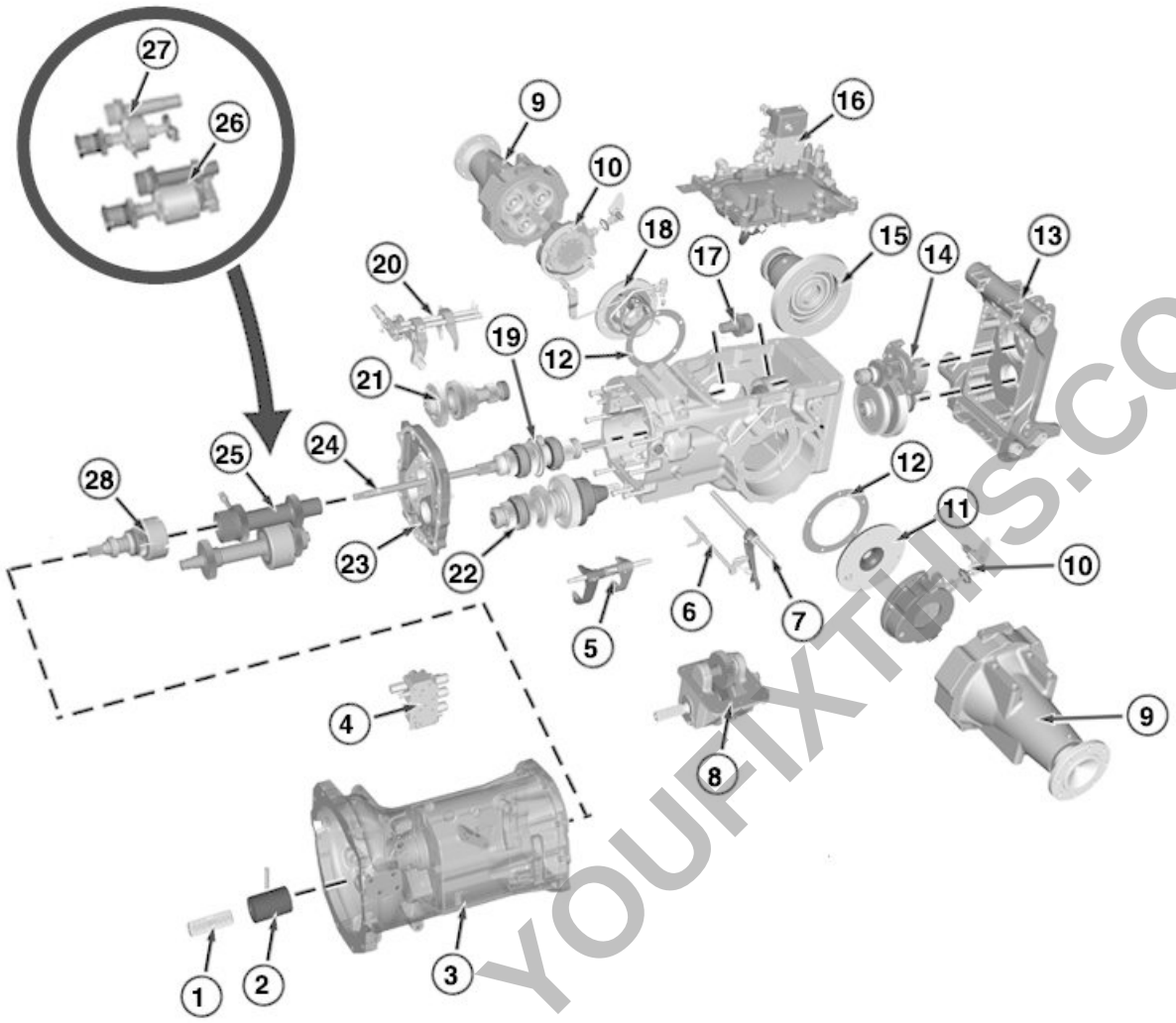
Sealants and Adhesives Cross-Reference Chart

U.S. Part Number	Canadian Part Number	Color	Size	Description	LOCTITE ™ /Permatex Number
Bonding					
PM37513	PM38606	BLACK AND WHITE	4 g	Epoxy Adhesive	21425
PM37391	PM38615	CLEAR	2 g	Gel Super Glue	454
PM37532	—	BLACK	5 oz	Weatherstrip Adhesive	30540
—	PM38603	YELLOW	147 ml	Weatherstrip Adhesive	30537
Gasketing					
PM38655	PM38625	PURPLE	50 ml	Flexible Form-in-Place Gasket	515
—	PM38600	BROWN	118 ml	Liquid Gasket Maker	30524
PM37559	PM38600	BROWN	4 oz	General Purpose Gasket Dressing (Aviation Gasket Sealant)	30517
PM38657	PM38628	BLUE	50 ml	High-Flex Form-in-Place Gasket	17430
PM37463	PM37463	CLEAR	80 g	RTV Clear Silicone	59530
PM37521		CLEAR	30 g	RTV Clear Silicone	59575
—	PM38618	CLEAR	300 g	RTV Clear Silicone	
PM37465	PM38616	METALLIC BLUE	80 ml	Ultra Blue RTV Silicone	58730
PM37553	PM37553	BURGUNDY	16 oz	High Tack Gasket Dressing	30525
PM37555	PM38607	BURGUNDY	9 oz aerosol	Hi-Tack Gasket Sealant	30524
PM37469	PM38609	RED	80 g	Hi-Temp RTV Silicone	59630
PM37529	—	RED	7.25 aerosol	Hi-Temp RTV Silicone	30541
PM37512	PM37512	—	—	Flexible Flange Sealant	5900
PM37616	—	—	20 g Stick	Copper Anti-Seize Stick	—
PM37617	—	—	20 g Stick	Silver-Grade Anti-Seize Stick	—
TY24810	TY24810	—	12.5 aerosol	NEVER-SEEZ ™	—
TY24811	TY24811	—	8 oz can with brush	NEVER-SEEZ ™	—
H154379	—	GREEN		Sealant	—
Priming					
PM37509	PM38611	GREEN	4.5 oz	Cure Primer	7649
Retaining					
PM38651	PM38612	SILVER	50 ml	QUICK METAL ™	660
PM37485	—	GREEN	36 ml	Maximum Strength	680
—	PM38626	GREEN	50 ml	Maximum Strength	62083
PM38652	—	GREEN	36 ml	High-Temperature	620
Thread Locking and Sealing					
PM38653	—	PURPLE	6 ml	Low Strength	222
—	PM38645	PURPLE	2 g	Superglue Instant Adhesive	22200
PM37418	PM38621	BLUE	6 ml	Medium Strength	242
PM37477	PM38622	BLUE	36 ml	Medium Strength	242
PM37643	—	BLUE	9 g Stick	Blue Stick Threadlocker (medium-strength)	—
PM37614	—	BLUE	19 g Stick	Blue Stick Threadlocker (medium-strength)	—
PM37615	—	—	19 g Stick	PST Thread Sealant Stick	—
PM37421	PM38623	RED	6 ml	High Strength	271 (usually red in color)

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Transmission Component Identification



Exploded View—12 Speed Transmission

LEGEND:

1	Input Shaft Adapter
2	Traction Input Coupler
3	Clutch Housing
4	Manifold Assembly
5	Range Shift Assembly
6	Clutch Interlock Assembly
7	Range Shifter Assembly
8	MFWD Gearbox
9	Final Drive/Axle Assembly
10	Brake Assembly
11	Left Differential Bearing Housing
12	Shim Pack
13	PTO Housing
14	PTO Geartrain Assembly
15	Differential
16	Top Cover
17	PTO Input Coupler
18	Differential Lock Assembly
19	1st Stage Gear Assembly
20	Speed Shift Assembly
21	2nd Stage Gear Assembly
22	3rd Stage Gear Assembly

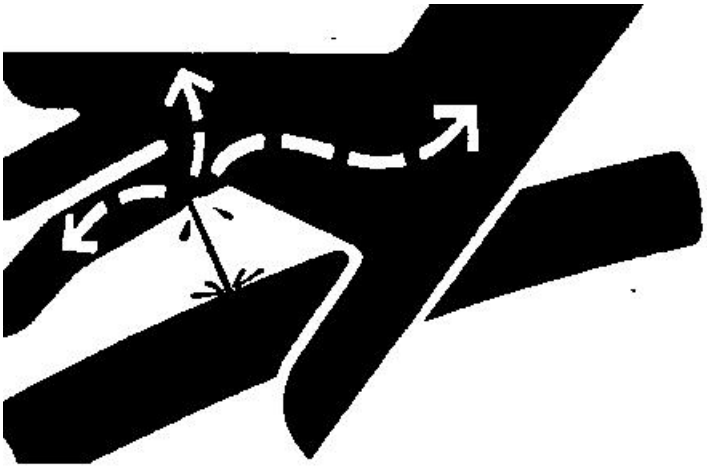
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Remove and Install Engine

[1] -

CAUTION:



High Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

Park machine on level surface.

[2] - Shut off engine and remove key.

[3] - Block rear tires to prevent tractor movement.

[4] - Relieve hydraulic pressure by operating SCV and hitch control levers.

[5] - Disconnect and remove battery. (See REMOVE AND INSTALL BATTERY in Section 40, Group 05.)

[6] - Remove hood. (See REMOVE AND INSTALL HOOD in Section 80, Group 05.)

[7] -

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Cab Shown

CAUTION:

Handle fuel with care: It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease and debris. Always clean up spilled fuel.

Fuel tank is filled through fill cap (A). Fill fuel tank at end of each day's operation. This prevents condensation in tank as moist air cools.

Item	Measurement	Specification
Fuel Tank	Capacity	158 L (41.7 gal)

→NOTE:

To reduce fuel gelling and control wax separation during cold weather, John Deere Fuel Flow Improver, or equivalent, may be added to fuel or bulk storage tank.

Diesel Engine Break-In Oil

IMPORTANT:

Do not use PLUS-50 oil or engine oils meeting API CH-4, API CG4, API CF4, ACEA E3, or ACEA E2 performance levels during the first 100 hours of operation of a new or rebuilt engine. These oils will not allow the engine to break-in properly.

New engines are filled at the factory with John Deere ENGINE BREAK-IN OIL. During the break-in period, add John Deere ENGINE BREAK-IN OIL as needed to maintain the specified oil level.

Change the oil and filter after the first 100 hours of operation of a new or rebuilt engine.

After engine overhaul, fill the engine with John Deere ENGINE BREAK-IN OIL.

If John Deere ENGINE BREAK-IN OIL is not available, use a diesel engine oil meeting one of the following during the first 100 hours of operation:

- API Service Classification CE
- ACEA Specification E1

After the break-in period, use John Deere PLUS-50 ™ or other diesel engine oil as recommended in this manual.

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Extended Diesel Engine Oil Service Intervals — Non-Emissions Certified and Certified Tier 1 and Stage I

When John Deere Plus-50 ™ II or John Deere Plus-50™ is used with the specified John Deere filter, the service interval for engine oil and filter changes may be increased by 50% but not to exceed a maximum of 500 hours.

Use oil analysis to evaluate the condition of the oil and to aid in selection of the proper oil and filter service interval. Contact your John Deere dealer for more information on engine oil analysis.

Change the oil and oil filter at least once every 12 months even if the hours of operation are fewer than the otherwise recommended service interval.

When ACEA E9, ACEA E7, ACEA E6, ACEA E5, or ACEA E4 oils are used with specified John Deere filter, use engine oil analysis to determine if the service interval for engine oil and filter changes may be increased by a maximum of 50% but not to exceed 500 hours.

If John Deere Plus-50™ II or John Deere Plus-50™, ACEA E9, ACEA E7, ACEA E6, ACEA E5, or ACEA E4 oils are used with other than the specified John Deere filter, change the engine oil and filter at the normal service interval.

If John Deere Torq-Gard ™ , API CJ-4, API CI-4 PLUS, API CI-4, API CH-4, or ACEA E3 oils are used, change the engine oil and filter at the normal service interval.

If API CG-4, API CF-4, or ACEA E2 oils are used, change the engine oil and filter at 50% of the normal service interval.

IMPORTANT:

To avoid engine damage:

- ***Reduce oil and filter service intervals by 50% when using BioDiesel blends greater than B20. Oil analysis may allow longer service intervals.***
- ***Use only approved oil types.***

Oil Filters

Filtration of oils is critical to proper operation and lubrication.

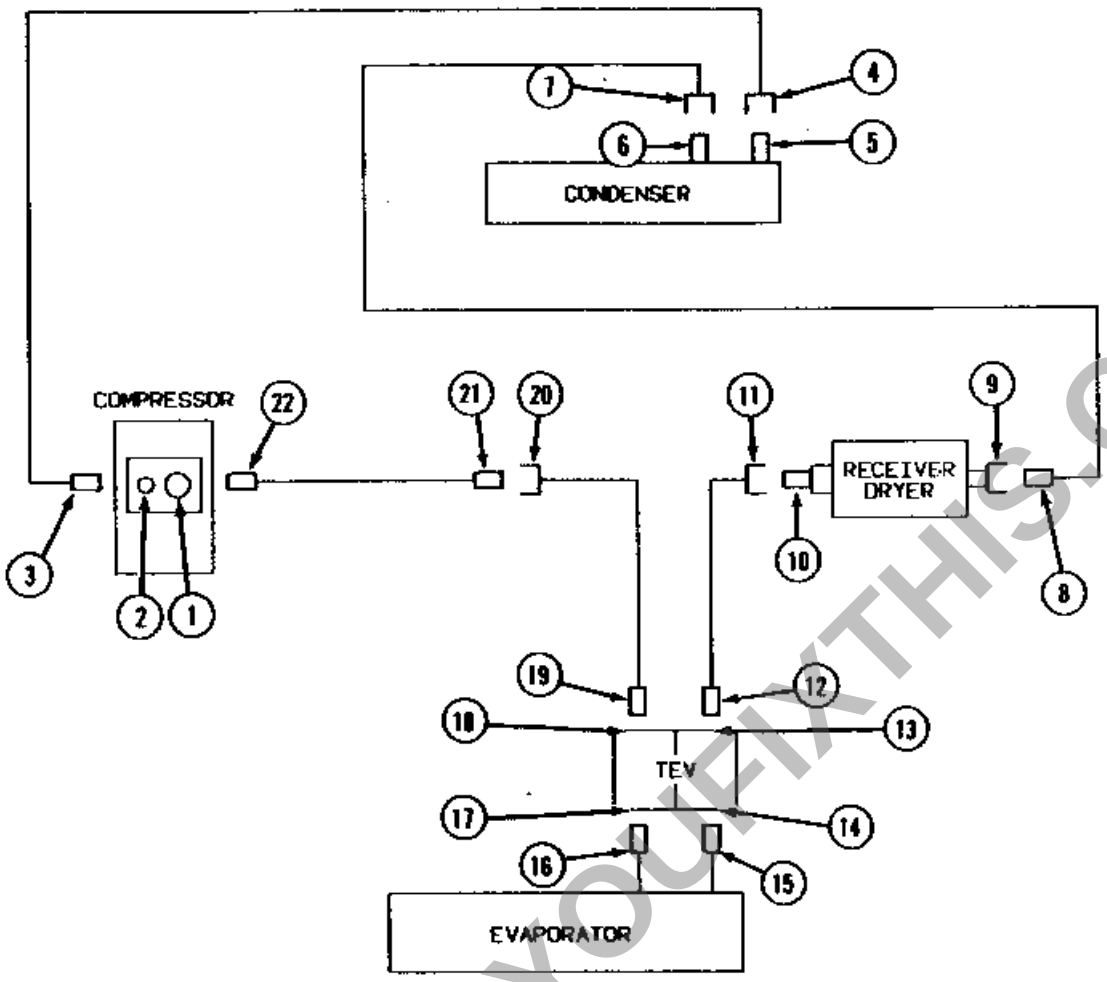
Always change filters regularly as specified in this manual.

Use filters meeting John Deere performance specifications.

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Flush Air Conditioning System



Air Conditioning System-Diagram

LEGEND:

1	Compressor Manifold Suction Port
2	Compressor Manifold Discharge Port
3	Compressor Discharge Hose Inlet Port
4	Compressor Discharge Hose Outlet Port
5	Condenser Inlet Port
6	Condenser Outlet Port
7	Receiver-Dryer Inlet Hose, Inlet End
8	Receiver-Dryer Inlet Hose, Outlet End
9	Receiver-Dryer Inlet Port
10	Receiver-Dryer Outlet Port
11	Receiver-Dryer Outlet Hose, Inlet End
12	Receiver-Dryer Outlet Hose, Outlet End
13	Expansion Valve Pressure Inlet Port
14	Expansion Valve Pressure Outlet Port
15	Evaporator Inlet Tube
16	Evaporator Outlet Tube
17	Expansion Valve Return Inlet Port
18	Expansion Valve Return Outlet Port
19	Expansion Valve Outlet Hose, Inlet End
20	Expansion Valve Outlet Hose, Outlet End
21	Compressor Inlet Hose, Inlet End
22	Compressor Inlet Hose, Outlet End

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Foreword

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

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 divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

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 tools, service equipment and tools, other materials 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.

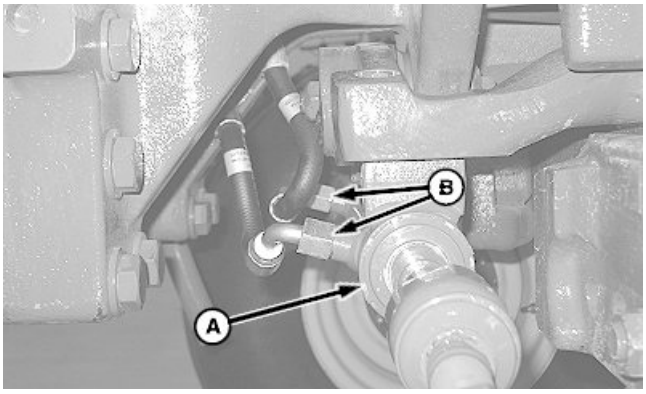
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[2] - For a hydraulic hose, it may be necessary to use three wrenches to prevent twist; one on the connector body, one on the nut, and one on the body of the hose fitting.

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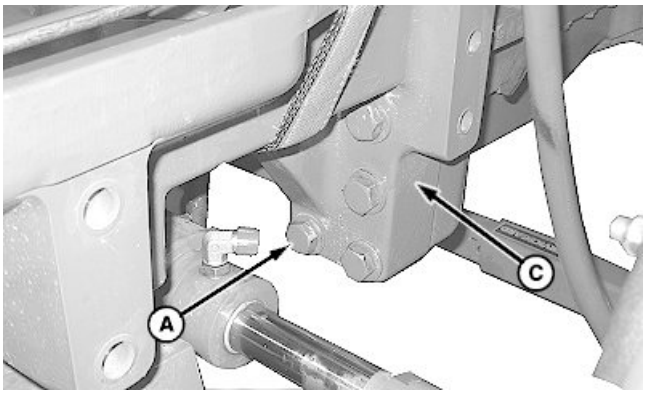
LEGEND:

A	Steering Cylinder
B	Hose (2 used)

Steering Lines

Disconnect and plug hoses (B) to steering cylinder (A).

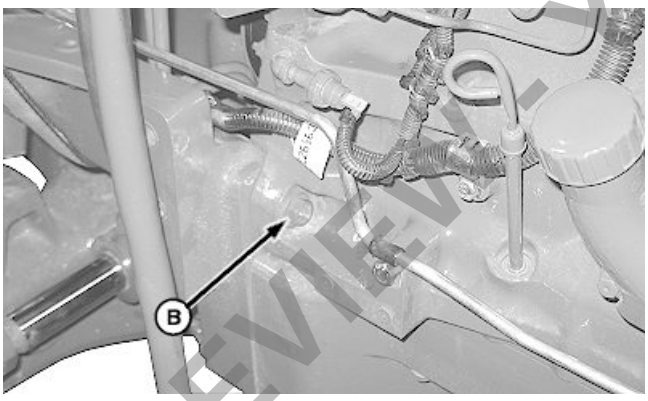
[21] -



LEGEND:

A	Cap Screw (8 used)
B	Cap Screw (2 used)
C	Front Support

Front Support



Support Cap Screw

Remove cap screws (A) and (B).

[22] - Carefully slide front axle assembly (C) forward away from machine.

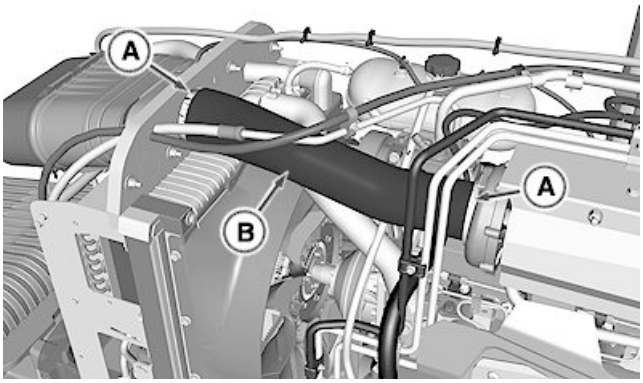
[23] -

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Remove and Install Air Cleaner—Axial Type

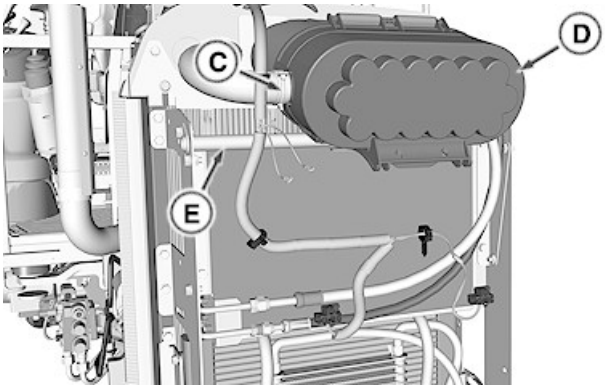
[1] -



LEGEND:

A	Clamps (2 used)
B	Air Duct
C	Cap Screws (4 used)
D	Air Cleaner Canister
E	Air Cleaner Support Bracket

Air Duct



Air Cleaner

Open hood.

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

[3] - Remove clamps (A) from air duct (B).

[4] - Remove cap screws (C) from air cleaner support bracket (E).

[5] - Remove air cleaner support bracket (E).

[6] - Remove air cleaner canister (D) with bracket.

[7] - Remove, inspect and install air cleaner elements. (See Remove, Inspect and Install Air Cleaner Elements—Axial Type, in this group.)

[8] - Inspect parts and replace as necessary.

[9] - Assemble in reverse order.

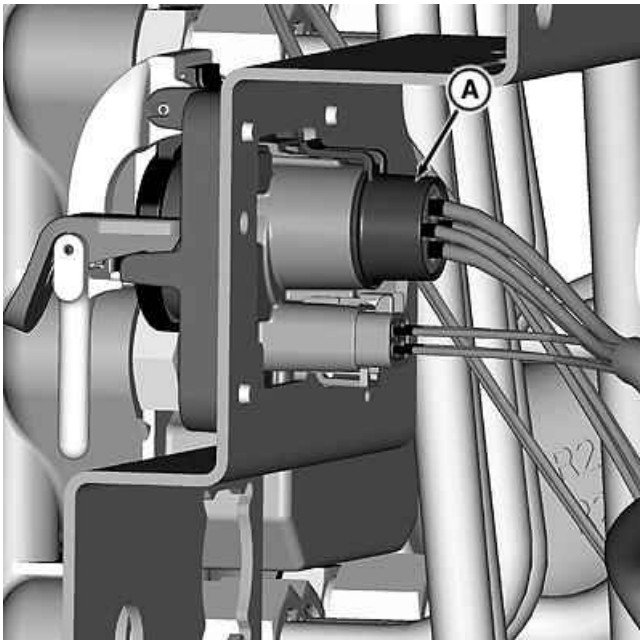
[10] - Fully seat air cleaner canister (D).

[11] - Install clamps (A).

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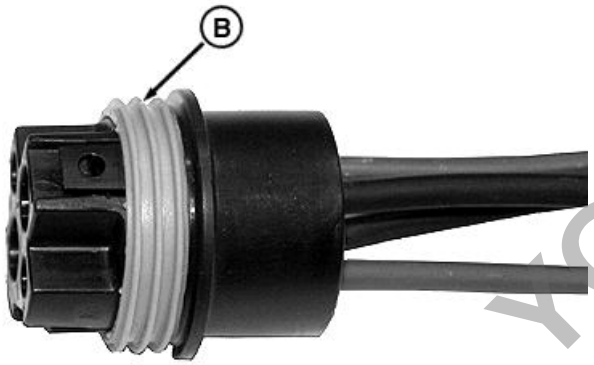
Repair DEUTSCH™ Implement Connectors



LEGEND:

A	Connector
B	Seal

Implement Connector

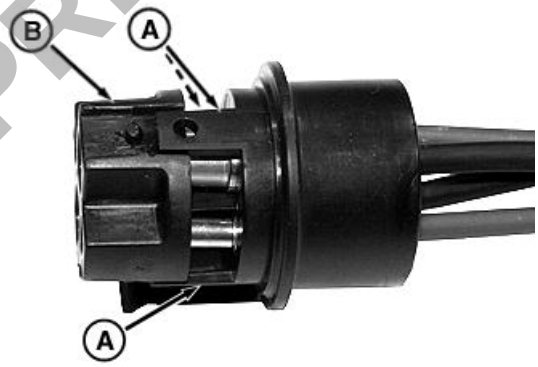


Implement Connector Seal

[1] - Disconnect connector (A).

[2] - Remove seal (B).

[3] -



LEGEND:

A	Tabs
B	Terminal Retainer
C	Terminal
D	Connector Body

Terminal Retainer

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Remove and Install Instrument Panel



Instrument Panel

[1] - Remove steering wheel. (See Remove and Install Steering Wheel in Section 60, Group 05.)

[2] - Remove cowl. (See Remove and Install Cowl in Section 90 [OOS], or Section 95 [Cab].)

[3] - Disconnect all wire connectors from instrument panel and move instrument panel aside.

[4] - Disconnect instrument cluster wire connectors.

[5] - Cab Tractors: Disconnect wiper control switch connector.

[6] -

→NOTE:

The current engine hours can not be programmed into the new instrument cluster. Record the current engine hours in the service records for this tractor at the dealership and the Lubrication Maintenance Charts in the customers operator manual, if available. Also note the current engine hours on the back of new instrument cluster using a permanent marker.

Inspect and replace parts as necessary.

[7] - Connect instrument cluster wire connectors.

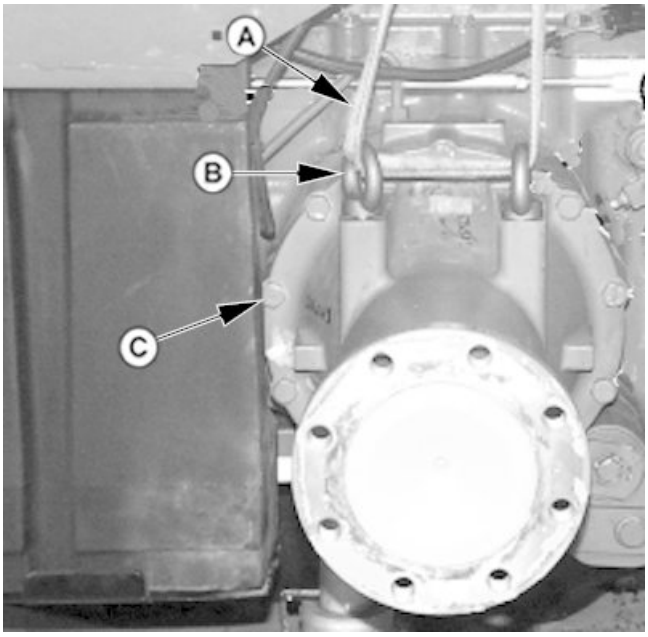
[8] - Cab tractors: Connect wiper control switch connector.

[9] - Turn instrument panel over, and connect all wire connectors.

[10] - Install cowl . (See Remove and Install Cowl in Section 90 [OOS], or Section 95 [Cab].)

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LEGEND:

A	Lifting Device
B	Eyebolt (2 used)
C	Cap Screw (10 used)

.

Install eyebolts (B) into existing holes.

[11] - Attach a suitable lifting device (A).

[12] - Remove cap screws (C) and final drive from transaxle.

[13] -



Final Drive Axle

Remove pinion shaft.

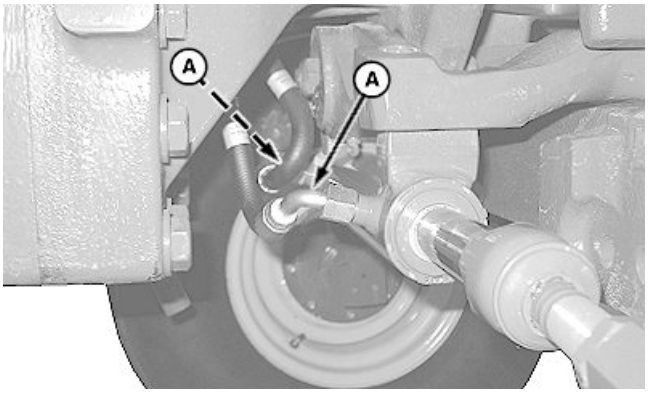
[14] - Inspect all parts for wear or damage. Replace as necessary.

[15] - Install pinion shaft.

[16] -

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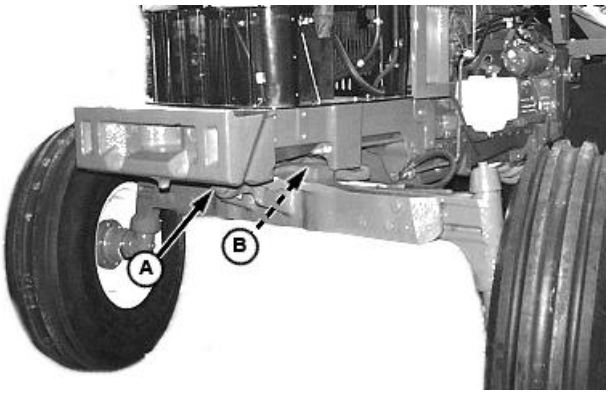
LEGEND:

A	Line (2 used)

Front Axle Hydraulic Lines

Disconnect steering cylinder hydraulic lines (A).

[5] -



LEGEND:

A	Cap Screw
B	Cap Screw

Axle Removal

Remove the two special cap screws (A and B).

[6] - Roll front axle to the rear until removed from pivot pins and then move from under tractor.

[7] - Repair or replace as needed. (See DISASSEMBLE FRONT AXLE-2WD and ASSEMBLE FRONT AXLE-2WD procedures in this group.)

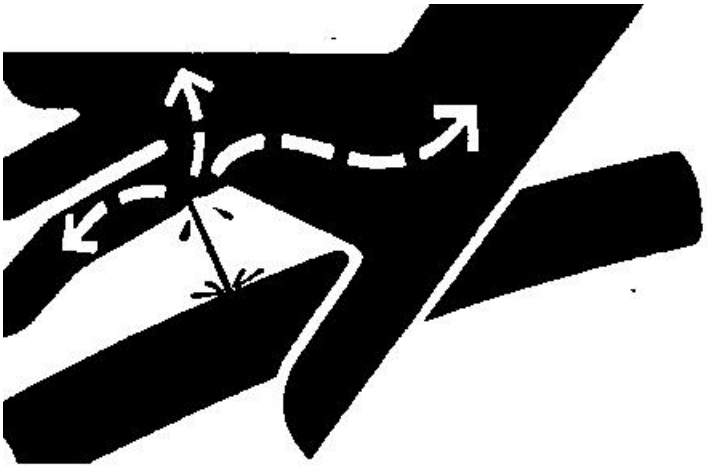
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Remove and Install Hydraulic Pumps

[1] -

CAUTION:



Escaping Fluid

Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A.

IMPORTANT:

Absolute cleanliness is essential when working on the hydraulic system. Clean the area around the hydraulic trailer brake valve thoroughly before removing or servicing parts.

When removing or installing hydraulic lines, always support line adapter and fittings with a back-up wrench to keep fittings stationary and prevent damage to line, valve and pump housings.

→NOTE:

Close all openings using caps and plugs.

The hydraulic lines may leak when being disconnected. Catch leaking oil and dispose off properly.

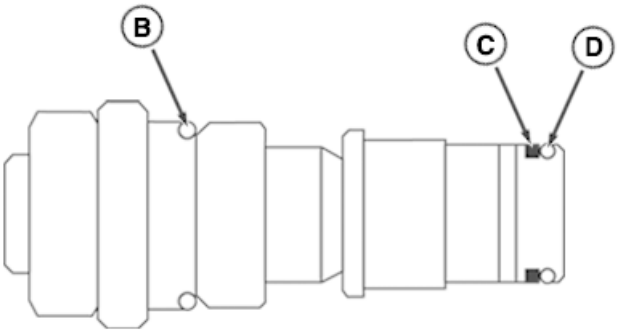
Relieve hydraulic system pressure by operating SCV and rockshaft control levers.

[2] - Disconnect negative (—) battery cable.

[3] -

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Valve O-rings

Open rate-of-drop valve and lower lift arms completely.

[2] - Relieve hydraulic system pressure.

[3] - If necessary, remove hitch valve assembly. (See Remove and Install Hitch Valve, in this Group.)

[4] - Remove load sense relief valve (A) from rear of hitch valve.

[5] -

IMPORTANT:

Always use new O-rings. Damaged or used O-rings will leak.

→NOTE:

Lubricate O-rings with oil prior to installation.

Inspect parts for debris and wear. Remove and replace O-rings (B) and (C), and back-up ring (D).

[6] - Replace complete load sense relief valve assembly if any part, other than O-rings or back-up ring, is worn or damaged.

[7] - Install load sense relief valve. Adjust setting as necessary. (See Hydraulics—Load Sense Relief Valve Adjustment in Diagnostic manual, Section 270, Group 50AA.) Tighten to specification.

Item	Measurement	Specification
Load Sense Relief Valve	Torque	22—28 N·m (195—248 lb.-in.)

[8] - If removed, install hitch valve assembly. (See Remove and Install Hitch Valve in this group.)

[9] - Operate machine hydraulics. Check and adjust transmission hydraulic oil level.

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[19] - Install seal plate (E).

[20] - Coat spool and bore with clean transmission hydraulic oil.

[21] - Install spool.

[22] - Lightly coat detent assembly with multipurpose grease.

[23] - Apply Loctite 242 Thread Locker Medium Strength, to threads of socket head screws (F).

Number	Name	Use
• PM37418 (us) • PM38621 (canadian) • 242 Loctite ™ (loctite)	Thread Locker Medium Strength	Used on threads of SCV socket head screws.

[24] - Install cap (G) using socket head screws (F). Tighten screws to specification.

Item	Measurement	Specification
Spool Cap Socket Head Screw	Torque	12—15 N·m (9—11 lb.-ft.)

[25] - Install parts (A—D). Tighten cap (A) to specification.

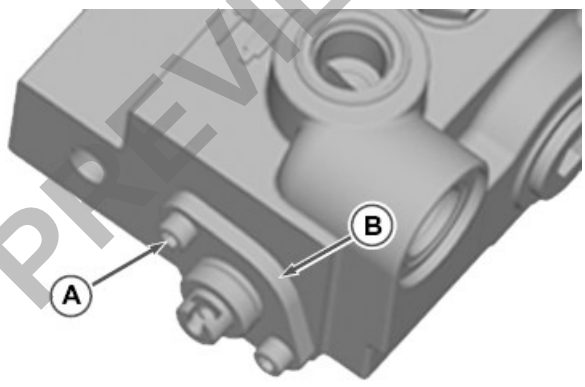
Item	Measurement	Specification
Load Check Valve Cap	Torque	34—41N·m (25—30 lb.-ft.)

[26] - Install new O-ring (C) on load check valve cap (A).

[27] - Lubricate O-ring and install load check valve (D), spring (B), and load check valve cap. Tighten to specification.

Item	Measurement	Specification
Load Check Valve Cap	Torque	34—41N·m (25—30 lb.-ft.)

[28] -



LEGEND:
A Socket Head Screw (2 used)
B End Cap
C O-Ring

End Cap

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[24] - Slide flange (C) forward and install cap screws (D).

[25] - Tighten jam nut (E) against sleeve.

[26] -

IMPORTANT:

Joystick lock should lock easily. If difficult to lock fine tune by readjusting sleeve and jam nut.

Unlock and lock joystick. Readjust if necessary.

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CAUTION:

Hood weighs approximately 38 kg (84 lb.). An additional person is required for hood removal and installation.

Unhook cable and lift hood up and forward to remove.

[4] - Install hood in reverse order.

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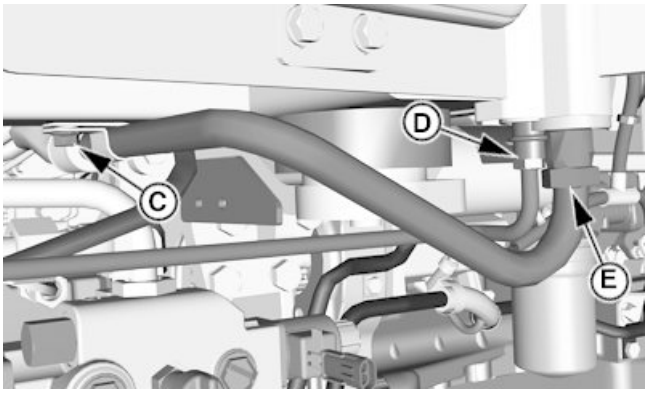
Section 95 - CAB—OPERATOR STATION REPAIR

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A/C Lines

Remove cap screw (A) to detach receiver-dryer (B).

[45] - Disconnect air conditioning lines (D) and (E).

[46] - Remove cap screw (C) and clamp.

[47] -

IMPORTANT:

Check under cab for wiring harness that may snag on linkages or transaxle housing as cab is being lifted.

Lift cab and remove from tractor using hoist.

[48] - Inspect cab, repair, or replace as necessary.

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