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 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.

JDG23 Lift Sling

JDG820 Flywheel Rotation Tool

Other Material

Number	Name	Use
• PM37418 (us) • PM38621 (canadian) • 242 LOCTITE ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Used to retain seat bolts.

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Group 05 - Controls

List of References

Below is a list of all items within this group.

Repair Engine—Use CTM

Repair Engine—Use CTM



For complete repair information, component technical manual is also required.

Use the component manual in conjunction with this machine manual.

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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

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 Connector

Repair SUMITOMO™ Connectors

Repair Tyco Fuel Injector Connector

Repair Weather Pack™ 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

Sealing Instructions—Drive Train

Remove Drive Train

Install Drive Train

Remove Transmission

Install Transmission

Remove Range Box

Install Range Box

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

JDG749 54-Inch Extension

JDG750 Swivel Socket

JDG768 Pilot Pins

JDG820 Flywheel Rotation Tool

JDG1655A Lifting Bracket

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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 MFWD Clutch

Install MFWD Clutch

Remove MFWD Axle

Install MFWD Axle

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.

DFRW182—Cone Stand Adapter

JDG23 Lift Sling

JDG1076 Cone Stand and Adapter

JDG1076A Cone Stand and Adapter

JDG1182 Puller 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 Final Drive

Install Final Drive

Remove Rear PTO Assembly

Install Rear PTO 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.

DFRW193—Modification to JT01730 Rear PTO Removal Bracket to a JT01730A

JDG1707 Axle Lifting Bracket

JT05726 Wheel and Axle Lift

JT07122 Splitting Stand

JT07130A PTO Housing Lifting Fixture

JT07218 Rear Axle Lifting Tool

JT07359 Splitting Stand “L” Brackets

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Group 05 - Steering Column

List of References

Below is a list of all items within this group.

Specifications

Remove Cowl and Plenum

Repair Steering Column (Standard and AutoTrac)

Replace Clutch Pedal Return Spring

Specifications

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

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Group 05 - Hydraulic System Repair

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

General Repair Procedures—Hydraulic System

Specifications

Use Special Wrench

Install Hydraulic Fittings

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.

JDG658 Special Hydraulic Wrench

Specifications

Item	Measurement	Specification
Flanged Line Clamp	Clearance	0.3—0.8 mm (0.01—0.03 in.)

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Group 05 - Hood

List of References

Below is a list of all items within this group.

Specifications

Remove and Install Hood

Specifications

Item	Measurement	Specification
Hood-to-Hood Support	Torque	100 N·m (74 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 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

Specifications

Item	Measurement	Specification
Zinc-Flake Coated Cab Mount Cap Screws	Torque	204 N·m (150 lb-ft)
Zinc Plated Cab Mount Cap Screws	Torque	230 N·m (170 lb.-ft.)
Brake and Steering Valve-To-Cab Cap Screws	Torque	70 N·m (52 lb-ft)

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Group 05 - Dealer Fabricated Tools

List of References

This list contains dealer fabricated tools used in TM2266.

DF1057 Axle Adjusting Tool

DFRW4 Axle Wheel Hub Tool

DFRW20 Compressor Holding Fixture

DFRW30A Axle Jacking Tool

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

DFRW70 Holding Tool

DFRW92 Mounting Guide Pins

DFRW94 Rear Axle Support Stand

DFRW99 540/1000 PTO Adapter Assembly Bearing Installer

DFRW132 Differential Side Bevel Gear End Play Tool

DFRW139 Thermal Expansion Valve Replacement Tool

DFRW151 Radiator Cap Adapter

DFRW182 Cone Stand Adapter

DFRW193—Modification to JT01730 Rear PTO Removal Bracket to a JT01730A

DFRW194 MFWD Input Shaft Holding Tool

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Group 05 - Engine Repair

List of References

Below is a list of all items within this group.

Specifications

Repair Engine—Use CTM

Access to Front Crankshaft Seal

Access to Rear Crankshaft Seal

Access to Camshaft

Repair Engine Accessory Drive

Remove and Install Engine Valve Cover

Specifications

Item	Measurement	Specification
Accessory Drive Housing-to-Engine	Torque	73 N·m (54 lb-ft)
Valve Cover		
Valve Cover	Torque	8 N·m (72 lb-in.)
Drive Sheave-to-Drive Shaft	Torque	100 N·m (74 lb-ft)
Electronic Fan Drive-to-Drive Shaft	Torque	100 N·m (74 lb-ft)

Repair Engine—Use CTM

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[5] - Remove old contact and strip 6 mm (1/4 in.) of insulation from wire using JDG145 Universal Electrical Pliers.

[6] - Crimp new contact on wire using JDG144 Crimping Pliers.

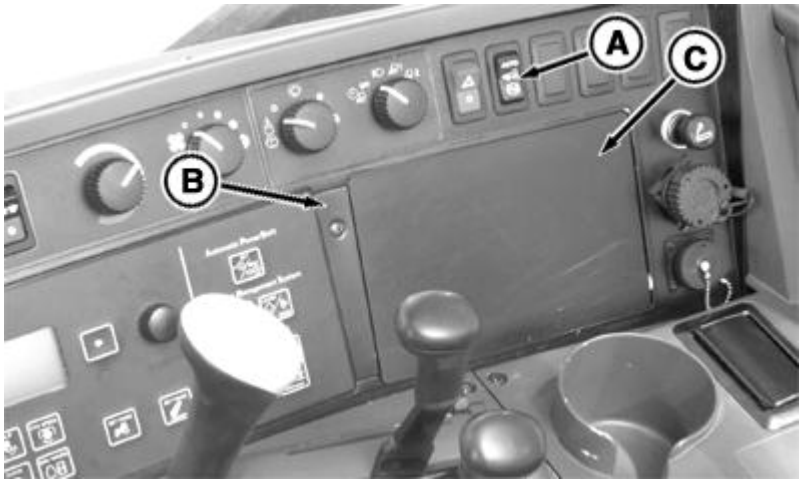
[7] - Spread contact locking lances and insert wire in correct terminal of new connector.

[8] - Transfer remaining wires to correct terminal of new connector.

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[1] -



LEGEND:

A	MFWD Switch
B	Retaining Bracket
C	Plate

Disconnect battery ground.

[2] - Remove MFWD switch (A).

[3] - Remove retaining bracket (B).

[4] - Remove plate (C).

[5] - Disconnect wiring harness connector and remove switch.

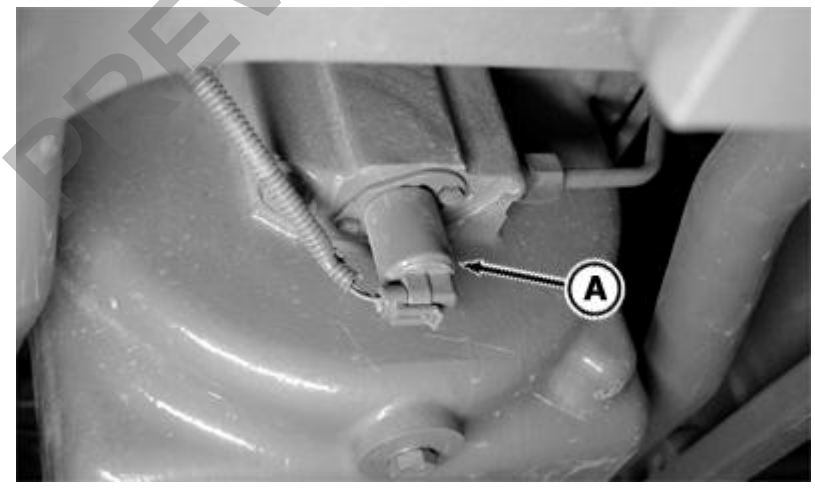
[6] - Install in reverse order.

Replace MFWD Solenoid

[1] -

→NOTE:

MFWD solenoid (A) is located on bottom rear of MFWD clutch housing.



LEGEND:

A	MFWD Solenoid

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[2] - Tighten range box-to-differential case cap screws to specification.

Item	Measurement	Specification
Range Box-to-Differential Case Cap Screws	Torque	90 N·m (66 lb-ft)

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Repair C4 clutch

[1] - Remove C4 clutch. (SeeRemove C4 Clutchin this group.)

[2] -

→NOTE:

Repair or assemble C4-clutch as required, using Cross Sectional and Exploded View illustrations as guides. (SeeCross Sectional View—C4 ClutchandExploded View—C4 Clutchin this group.)

Remove screws (Q) and remove clutch cover (P).

[3] - Remove clutch hub (J), disks (L) and (M) and piston plate (K).

[4] - Remove springs (O) and pins (N).

[5] - Remove C4 clutch piston (I) and C4 clutch drum (E), and piston seal rings (G) and (H).

[6] -



LEGEND:

A	Check Valves

Inspect check valves (A).

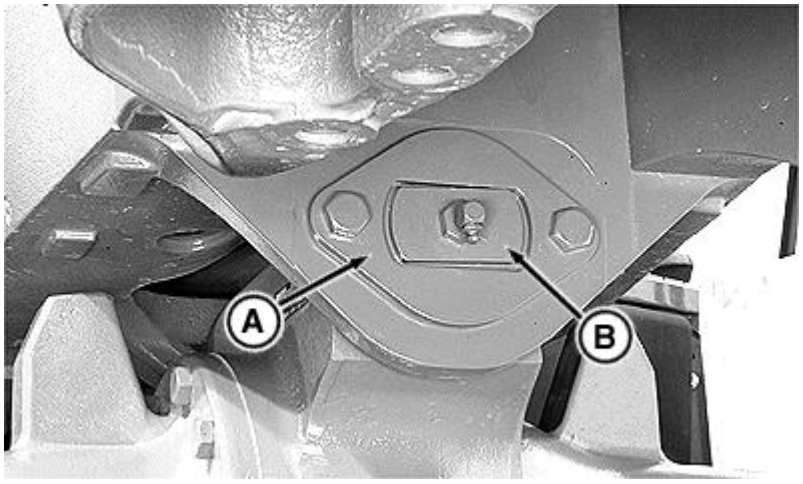
→NOTE:

The check valve consists of ball and retainer.

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[10] -



LEGEND:

A	Pivot Pin Retainer
B	Pivot Pin

Remove axle pivot pin retainer (A) and pivot pin (B).

[11] - Lower and remove axle.

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[4] -



LEGEND:

A	Brass Drift

Remove one bearing cup from planet pinion using a brass drift (A).

[5] -



Remove remaining bearing cup using aJT01673 Bearing Cup Installer.

Exploded View—Planet Pinion Carrier

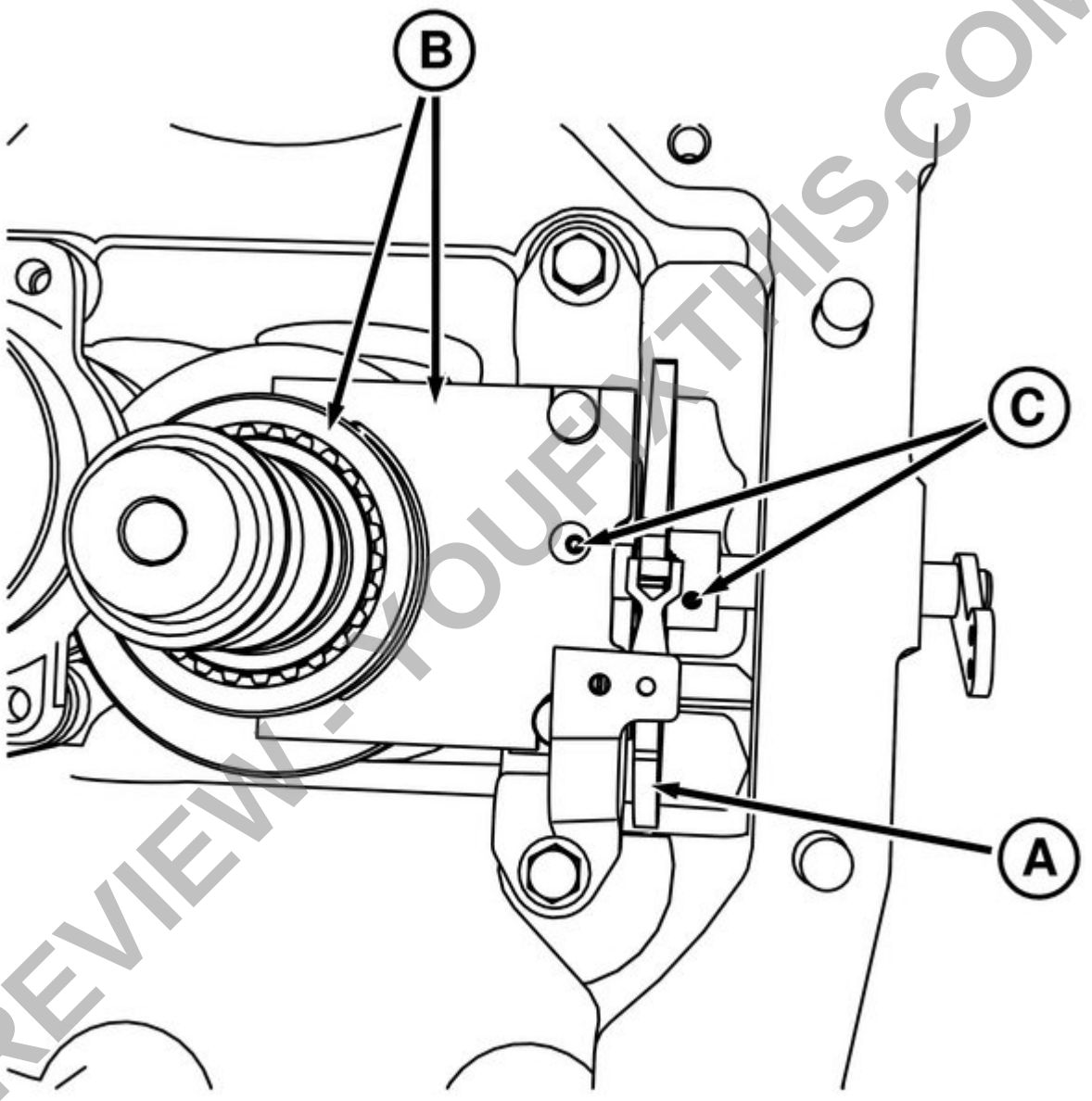
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[2] - Install support (E) making sure hollow dowel pins are installed in PTO housing and tighten cap screws to specifications.

Item	Measurement	Specification
Shifter Support Cap Screws	Torque	70 N·m (52 lb-ft)

[3] -



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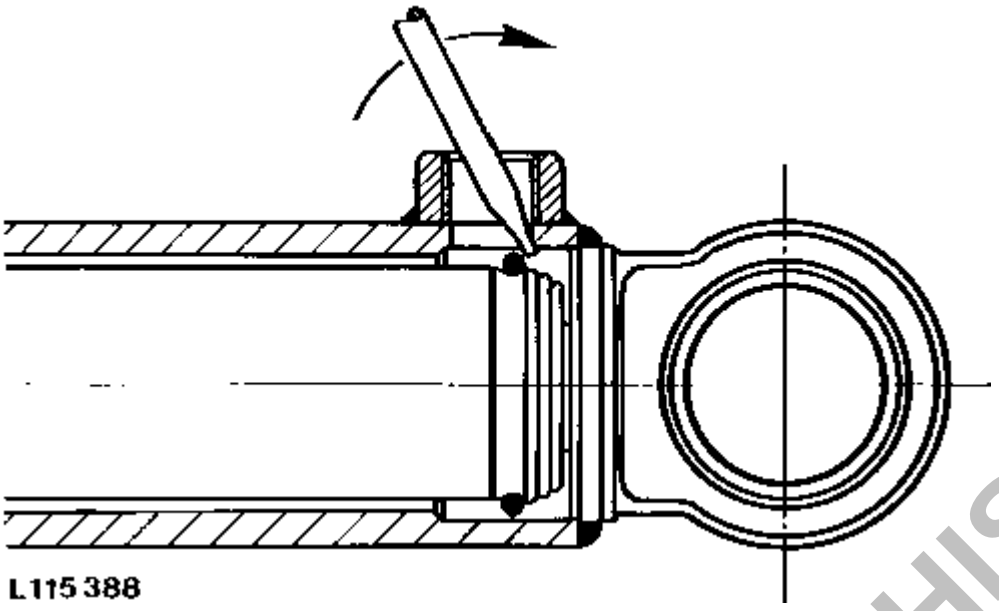
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Repair Hydraulic Pump Controller

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[4] -



Install piston rod.

a. Slide snap ring and piston rod into cylinder.
b. Use piston rod to press snap ring to cylinder base.
c. Press one end of snap ring over collar. Turn piston rod until snap ring is locked in piston rod groove.

[5] - Install lift cylinders. (SeeRemove and Install Hitch Lift Cylindersin this group.)

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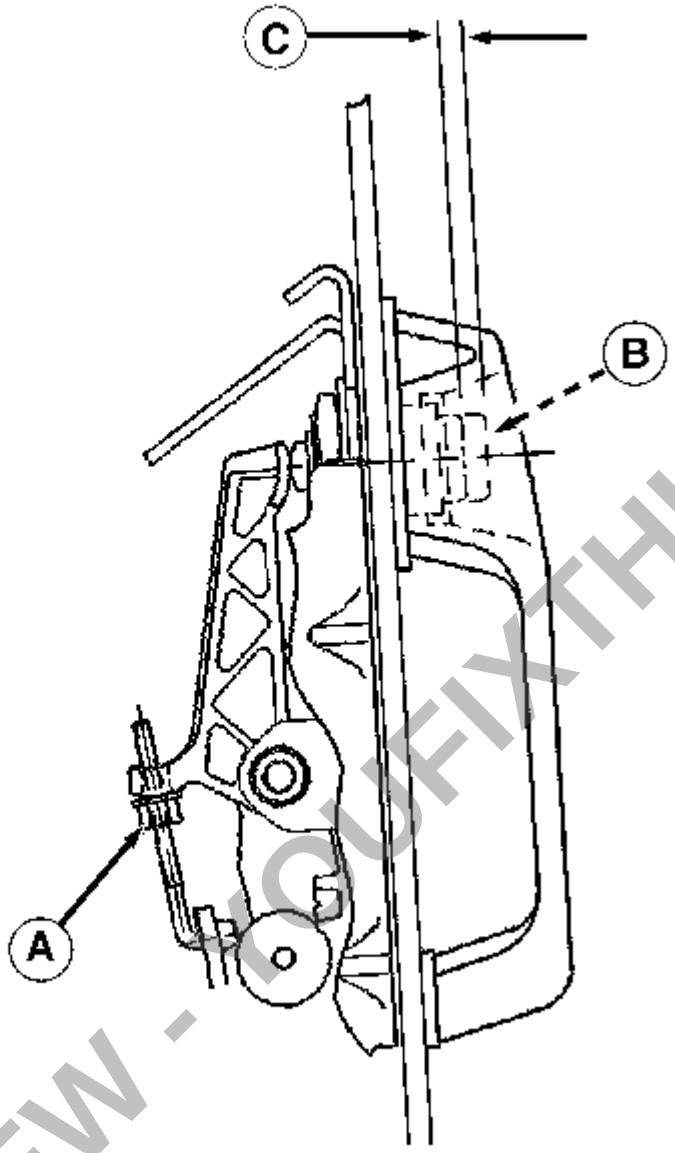
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Hose and Tubing O-Ring Connection Torques

Metal Tube Outside Diameter	Thread and Fitting Size	Torque	
		N˙m	(lb-ft)
1/4	7/16	14-20	(10-15)
3/8	5/8	14-20	(10-15)
1/2	3/4	33-39	(24-29)
5/8	7/8	35-42	(26-31)
3/4	1-1/16	41-47	(30-35)

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LEGEND:

A	Nut
B	Button
C	Latch Travel Dimension

[1] - Close door to fully latched position.

[2] - Adjust nut (A) so button (B) travels 1—3 mm (0.04—0.12 in.) (C) to unlatch door.

Cab Door Adjustment—Step 4

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