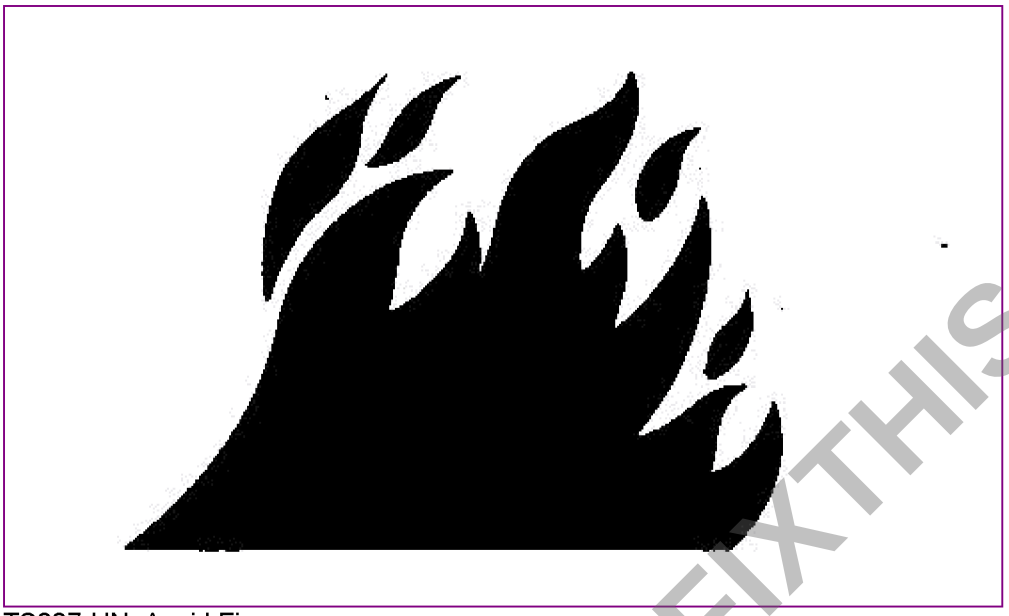
tm1455 - 744E Loader Repair
Handle Fluids Safely-Avoid Fires

Handle Fluids Safely-Avoid Fires



TS227-UN: Avoid Fires

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.

DX,FLAME-19-1998/09/29

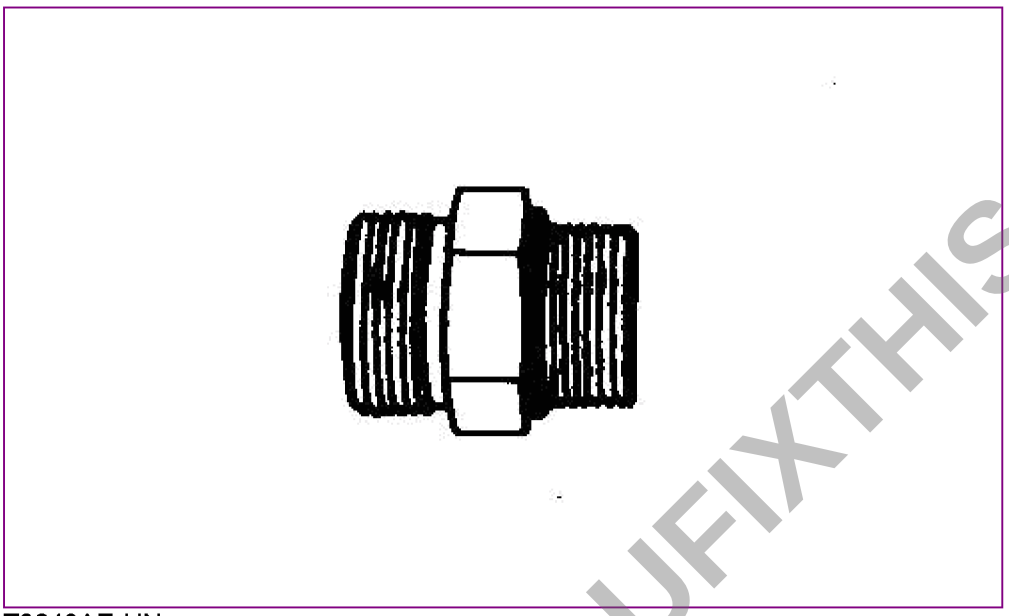
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tm1455 - 744E Loader Repair
Service Recommendations for O-Ring Boss Fittings

Service Recommendations for O-Ring Boss Fittings

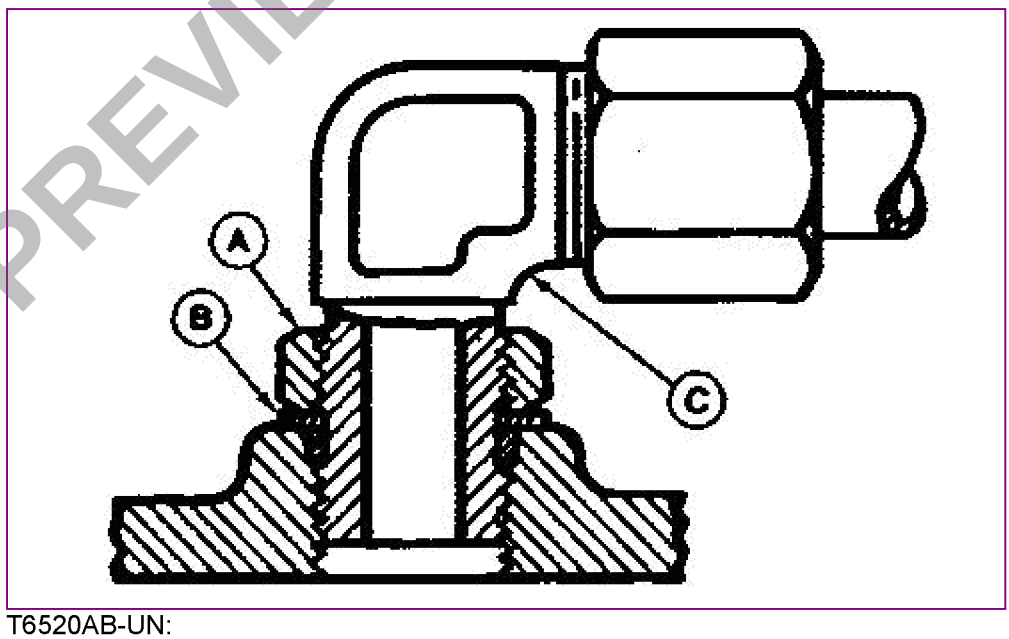
Straight Fitting



T6243AE-UN:

1. Inspect O-ring boss seat for dirt or defects.
2. Lubricate O-ring with petroleum jelly. Place electrical tape over threads to protect O-ring. Slide O-ring over tape and into O-ring groove of fitting. Remove tape.
3. Tighten fitting to torque value shown on chart.

Angle Fitting



T6520AB-UN:

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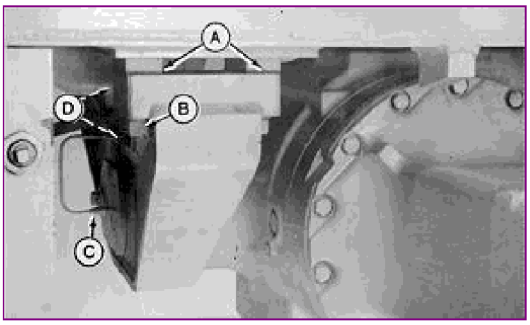
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14. 

T7212FB-UN: Clamp Cap Screws

Remove clamp cap screws (A) so line can be moved for clearance to remove cap screws.

---

15. 

T7134HH-UN: Shim, Nut, Cap Screws, Lub. Line & Clamps

LEGEND:

A - Shim (as required)
B - Nut and Cap Screw (8 used) Washer (16 used)
C - Lubrication Line
D - Clamps (2 used)

Disconnect lubrication line (C).

16. Remove clamps (D).

17. Remove nuts, washers, and cap screws (B).

18. On machines (S.N. -000330), remove shims.

19. Lower supports, axle and differential.

20.

CAUTION:

The approximate weight of rear oscillating support is 113 kg (250 lb).

Item	Measurement	Specification
Rear Oscillating Support	Weight	113 kg (250 lb)

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tm1455 - 744E Loader Repair
Other Material

Other Material

Number	Name	Use
PT569 (U.S.)	John Deere NEVERSEEZ ® Lubricant	Apply to steering wheel nut.

NEVERSEEZ is a trademark of Emhart Chemical Group

09T,0960,K37-19-1990/05/31

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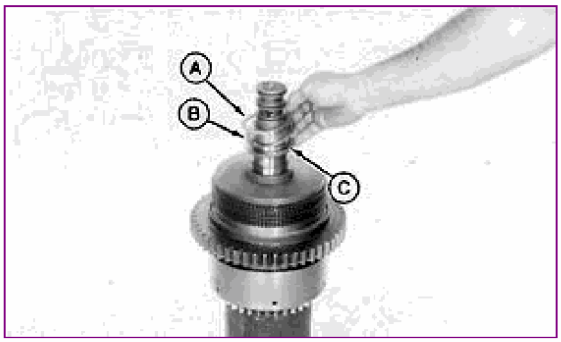
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Remove bushing (A) by pressing from gear (B).

6. Inspect bushing.

   For (SN 000500-), remove and inspect bearing.

---

7. 

T7233DL-UN: Thrust Washer/Bearing

LEGEND:

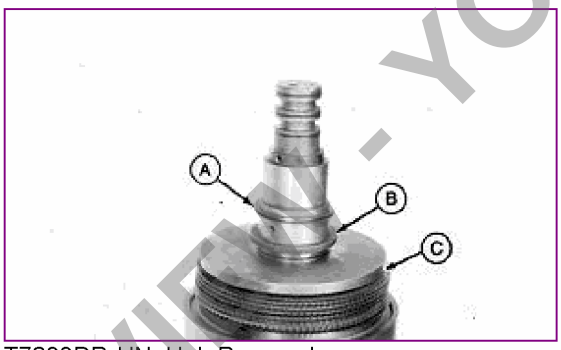
A - Thrust washer
B - Thrust bearing
C - Thrust washer (counterbore down)

Remove parts (A-C).

---

8. *NOTE:*

   It is recommended that snap ring be replaced when pack is disassembled and assembled.



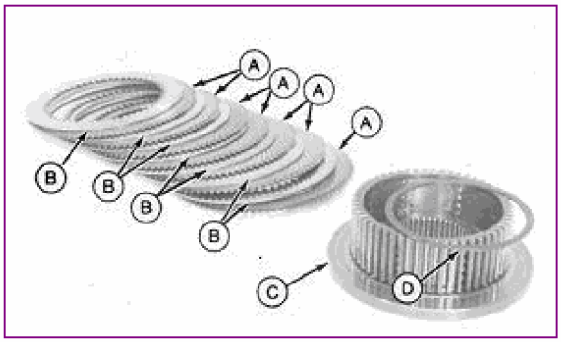
T7233DR-UN: Hub Removal

Using two C-clamps, evenly push down on hub (C) to remove spring load applied to snap ring (A).

9. Remove snap ring and washer (B).

10. Remove hub.

---

11. 

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tm1455 - 744E Loader Repair
Disassemble And Assemble Pressure Regulating Valve (SN -000499)

Disassemble And Assemble Pressure Regulating Valve (SN -000499)



T7457AD-UN: Pressure Regulating Valve

LEGEND:

A - Master Clutch Cut-Off Valve
B - Sequencing Valve
C - Cut-Off Valve
D - Main Pressure Regulating Valve
E - Forward-Reverse Clutch Pressure Reducing Valve
F - Flow Sensing Valve
G - Master Clutch Pressure Reducing Valve

TX,0360,AA4040-19-1996/03/01

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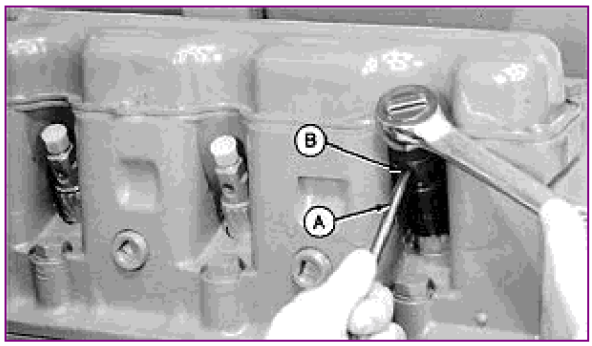
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Timing Pin [T6585NP]



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RG3889-UN: Injection Nozzle Gland Nut

Tighten injection nozzle gland nut to 75-88 N·m (55-65 lb-ft).

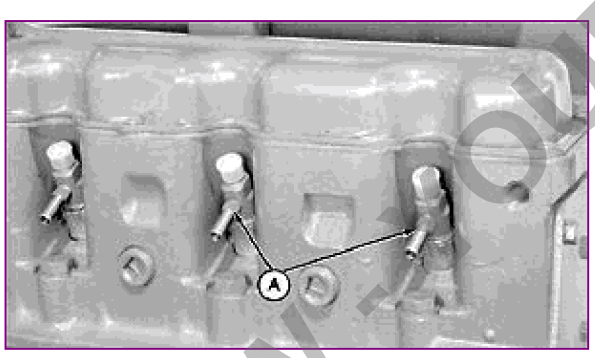
Item	Measurement	Specification
Nozzle Gland Nut	Torque	75-88 N·m (55-65 lb-ft)

Keep the handle (A) pointing straight out while tightening.

Socket window (B) is cut deep enough to obtain a new "bite" without removing the inner socket.

11. Be sure that O-ring is positioned against the injection nozzle gland nut.

---

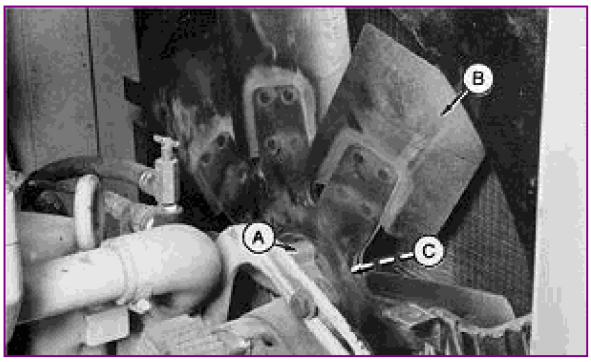
12. 

RG3552-UN: Leak Off Connectors

Install leak-off connectors (A) with washers on injection nozzles.

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9. 

T7212FU-UN: Fan Installation

Install spacer (A). Install fan (B) with concave side of blades toward engine. Tighten cap screws (C) to 47 N·m (35 lb-ft).

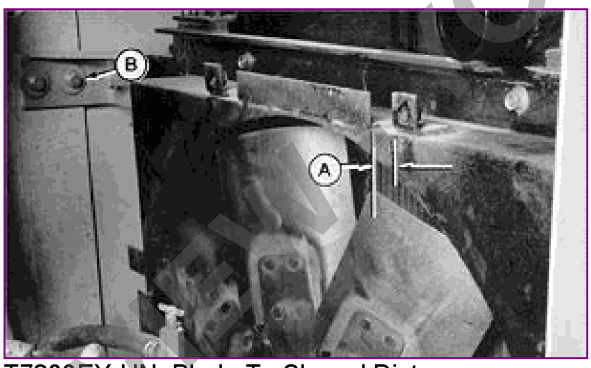
Item	Measurement	Specification
Fan-to-Pulley Cap Screw	Torque	47 N·m (35 lb-ft)

10. Check fan blade tip-to-shroud clearance. Clearance must be equal at bottom and top. Add or subtract shims between radiator mounting bracket and frame, if necessary.

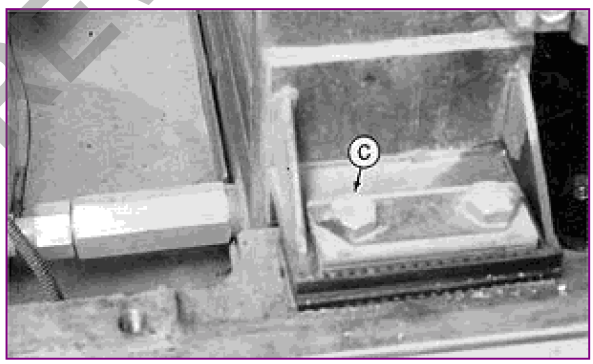
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11. Check that distance from blade edge (engine side) to shroud is 23 ± 6 mm (0.9 ± 0.2 in.).

Item	Measurement	Specification
Fan Blade Edge-to-Shroud	Distance	23 ± 6 mm (0.9 ± 0.2 in.)



T7233EY-UN: Blade To Shroud Distance



T7233EZ-UN: Radiator Adjustment Cap Screw

Loosen cap screws (B and C) and adjust radiator as necessary. Tighten cap screws (C) until head contacts lock plate plus two additional turns. Bend corner of lock plate against cap screw head.

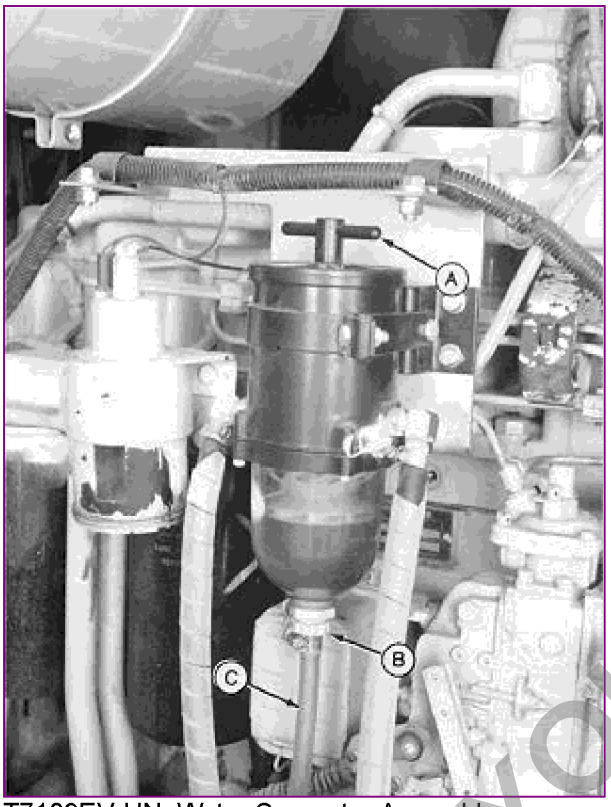
12. Install grille housing. (See procedure in Group 1921.)

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tm1455 - 744E Loader Repair
Disassemble And Assemble Water Separator - If Equipped

Disassemble And Assemble Water Separator - If Equipped



T7109EV-UN: Water Separator Assembly

1. Open water separator by turning handle (A) counterclockwise and removing cover.
2. Place container under drain hose (C). Turn fitting (B) counterclockwise and drain water separator.
3. Remove filter from assembly.
4. Close fitting and remove container.
5. Fill water separator filter with fuel.
6. Install new filter.
7. Install water separator cover.
8. Bleed fuel system. (See procedure in Group 0400.)

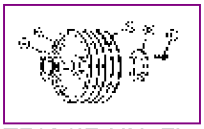
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Remove And Install Flexible Plate

Remove And Install Flexible Plate



T7134IF-UN: Flexible Plates Assembly

LEGEND:

A - Input Guide
B - Spacer
C - Plate (4 used)
D - Spacer
E - Cap Screw (16 used)
F - O-Ring

1. Remove torque converter. (See procedure in Group 0600.)
2. Remove flexible plate-to-cover cap screws (E).
3. Remove spacer (D).
4. Remove parts (C and B).
5. Remove input guide (A).
6. Remove O-ring (F).

Item	Measurement	Specification
Input Guide Seal Surface Wear	Limit of Use	0.15 mm (0.006 in.)

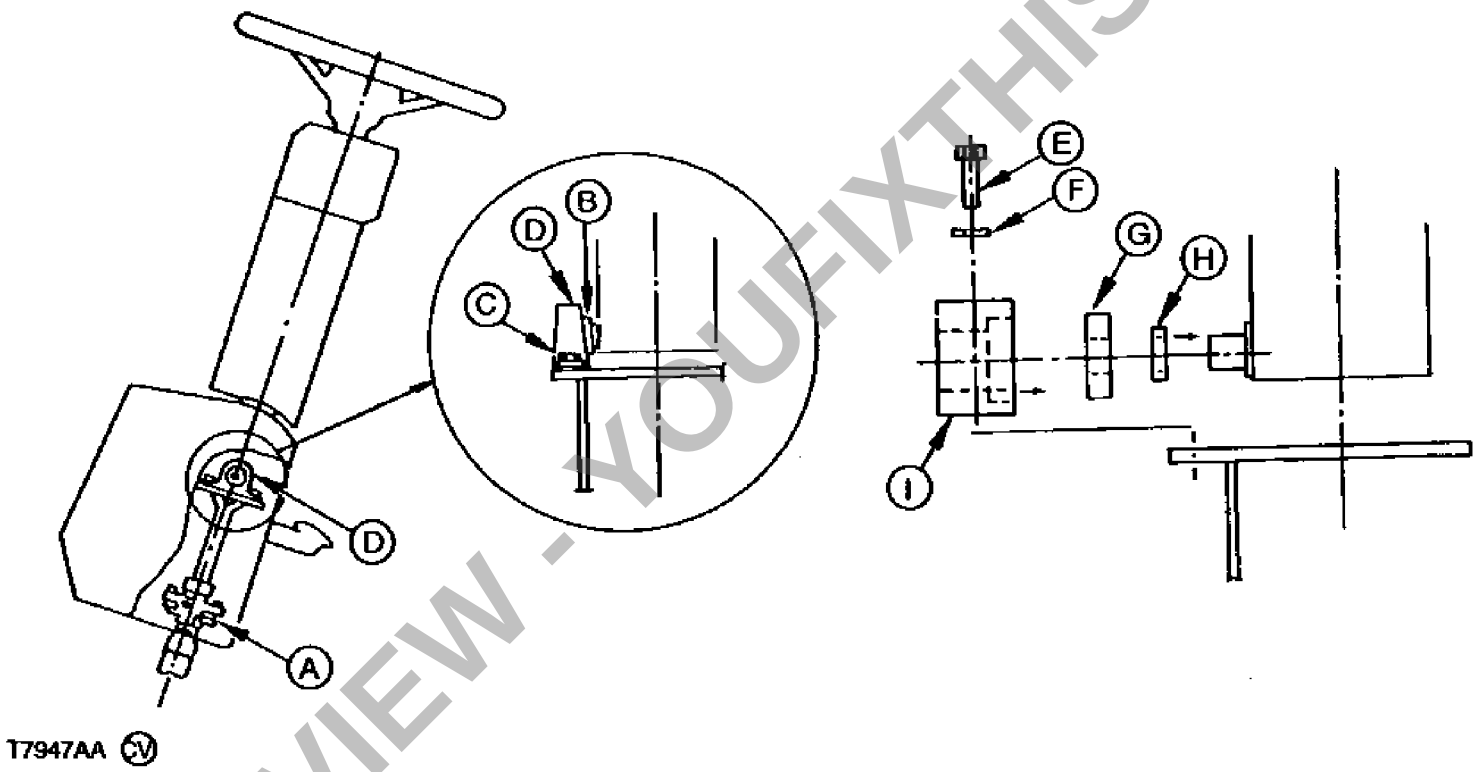
7. Inspect parts and replace if necessary.
8. Install parts (A-F). Tighten cap screws to 96 N·m (71 lb-ft).

Item	Measurement	Specification
Flexible Plate-to-Cover Cap Screws	Torque	96 N·m (71 lb-ft)

TX,0752,AA5295-19-1990/06/11

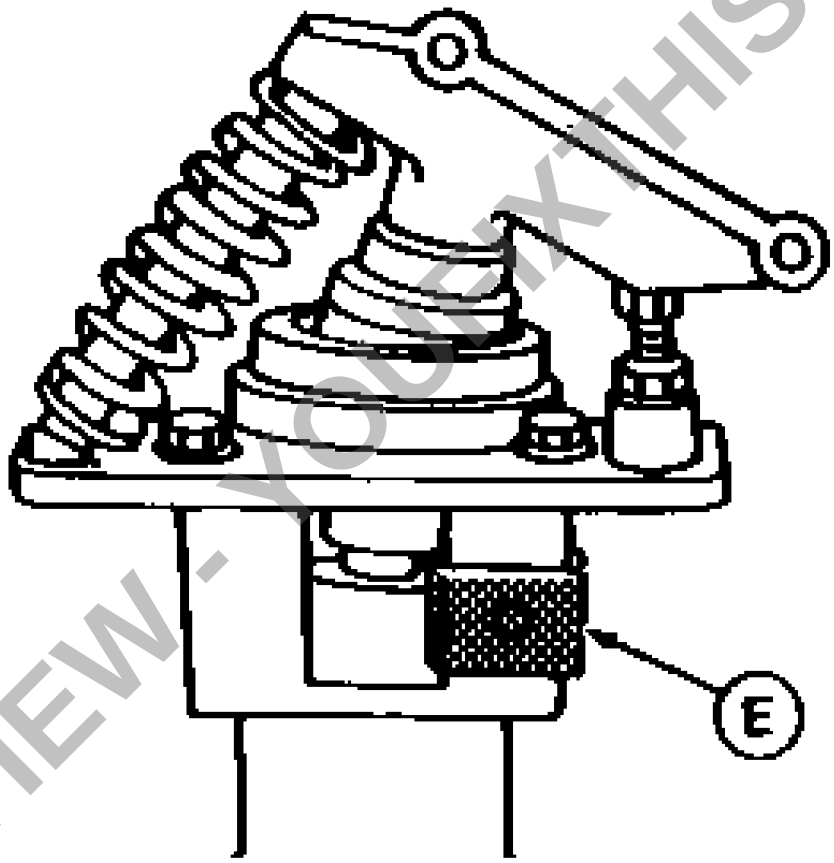
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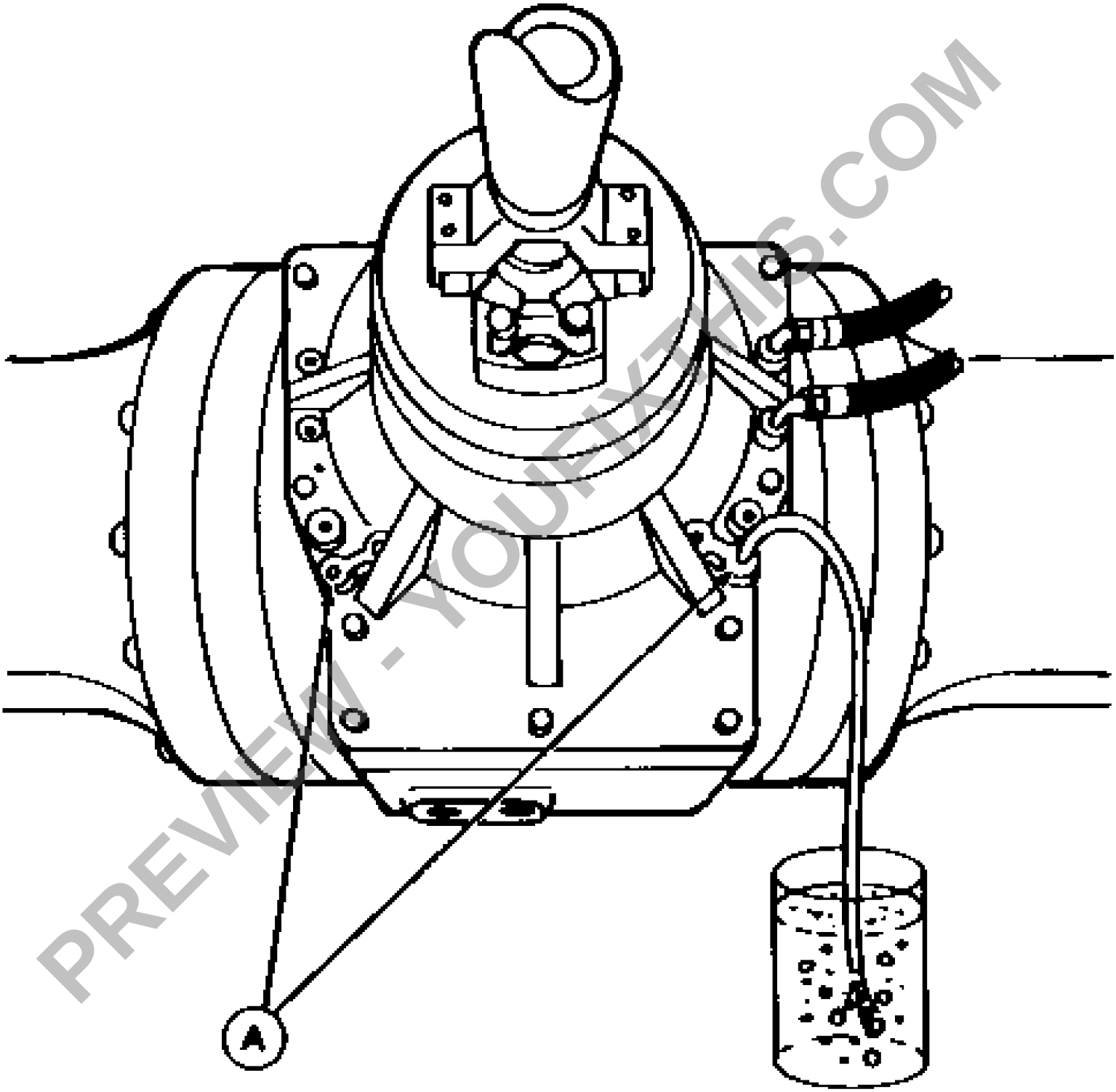
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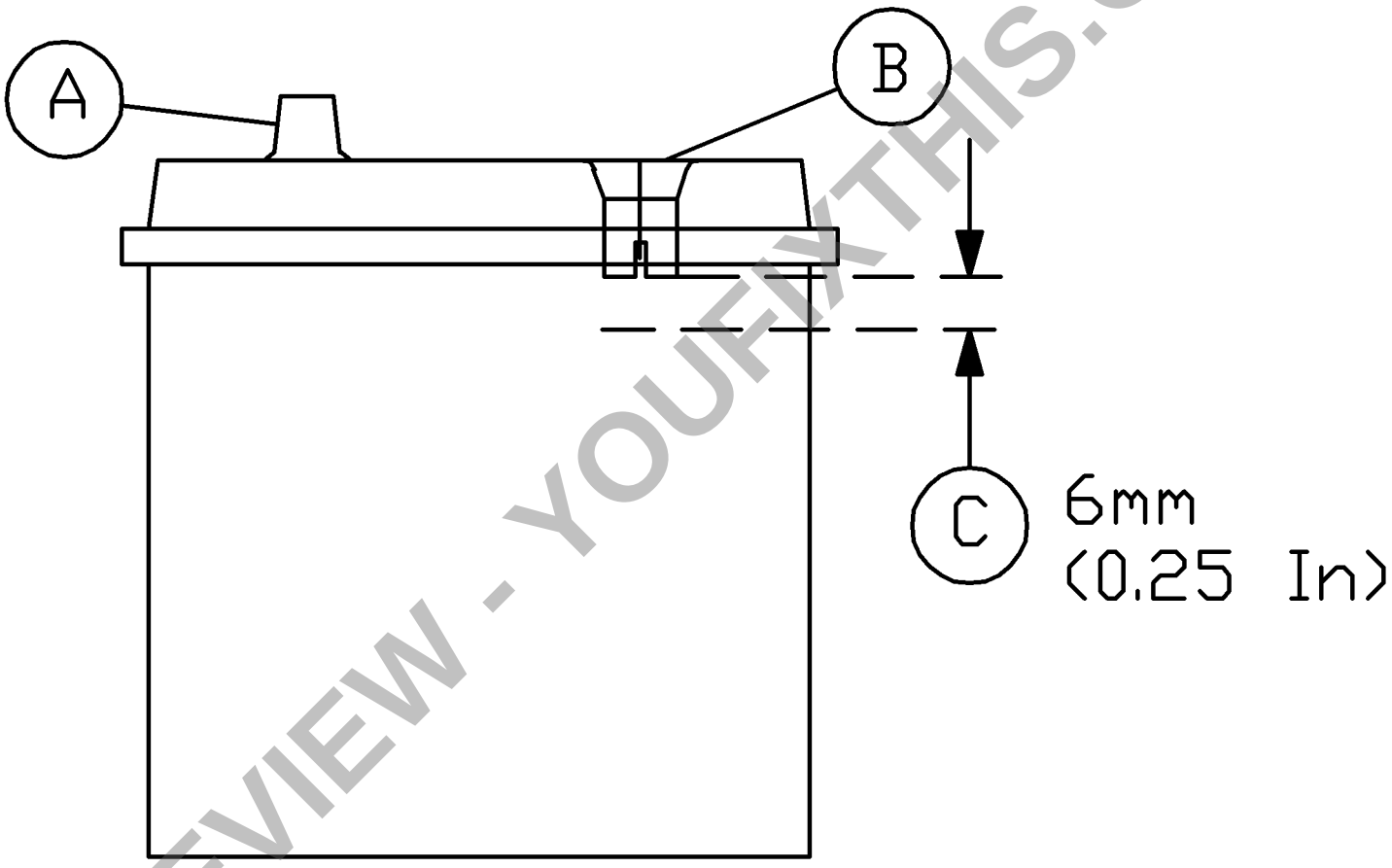
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T7173AV

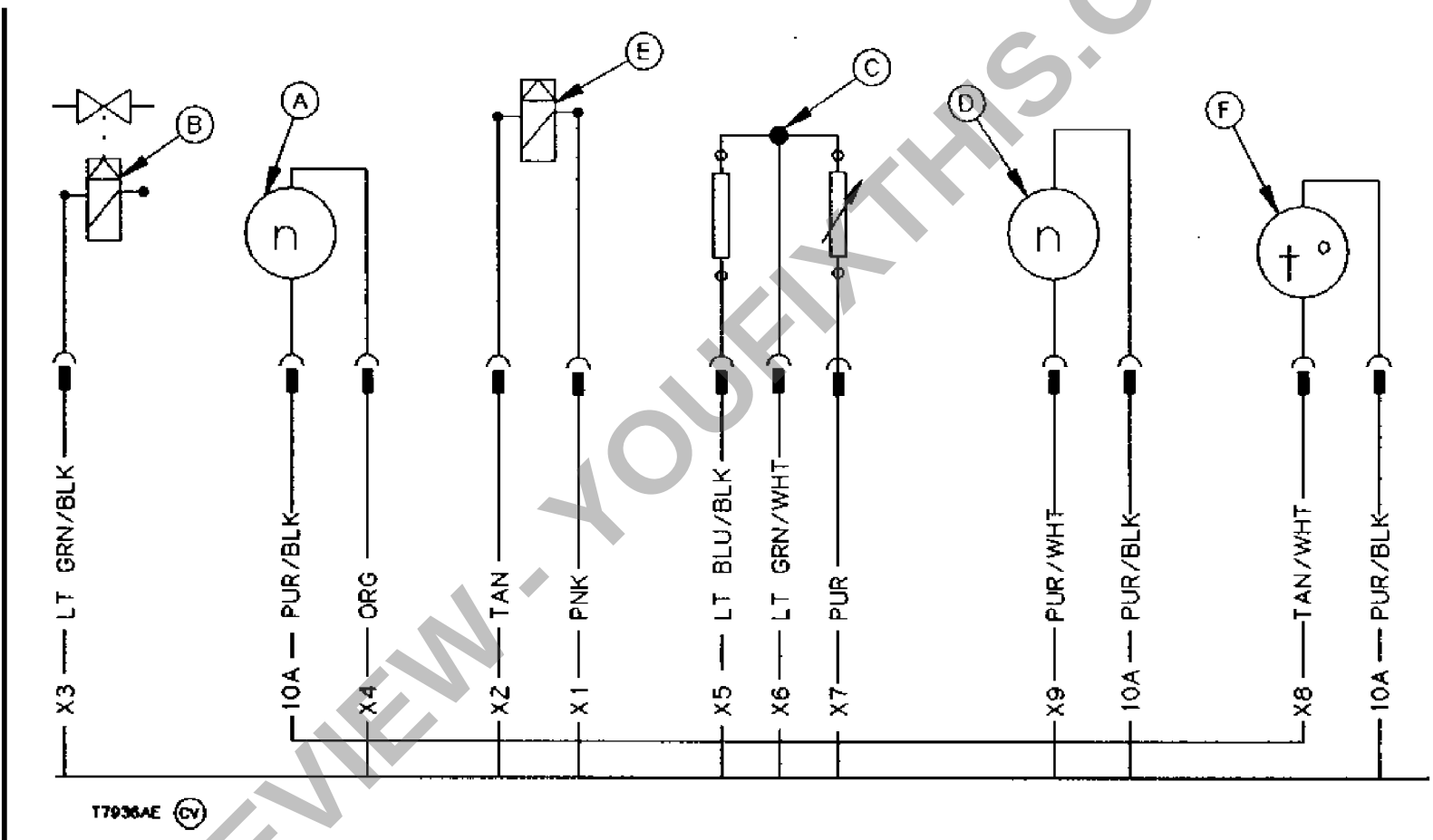
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5. Remove cap screws (A) to remove bracket (B) and switch.
6. Remove screws (D) to remove switch (G).
7. Install switch. Tighten screws to 1.28 N·m (11 lb-in.).
8. Install bracket. Tighten cap screws to 11 N·m (97 lb-in.).
9. Connect connector.

TX,1674,AA5571-19-1996/03/01

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J - Connector
K - Connector
L - Connector
M - Connector
N - Connector
O - Connector

Remove parts (A-C, F and G).

3. Disconnect connectors (D, E and H-O). (See next page for connector wiring lead colors.)

4. Remove monitor.



T7943AC-19: Monitor Connections



T7943AD-19: Monitor Connections

TX,1676,AA5416-19-1990/06/01

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tm1455 - 744E Loader Repair
Remove And Install Cab Or Canopy

Remove And Install Cab Or Canopy

CAUTION:

Prevent possible injury from unexpected machine movement. Install frame locking bar before working in frame hinge area.

1. Install frame locking bar.
2. Stop engine.
3. Operate all hydraulic control valves to relieve hydraulic pressure.

4. 

T7233FN-UN: Speed Control Parts & Foot Pedal

LEGEND:

A - Accelerator Pedal
B - Speed Control Cable
C - Nut
D - Cotter Pin
E - Clevis
F - Pin

Remove speed control parts (B-F) from accelerator pedal (A).

5. 

T7233FM-UN: Handle Removal

LEGEND:

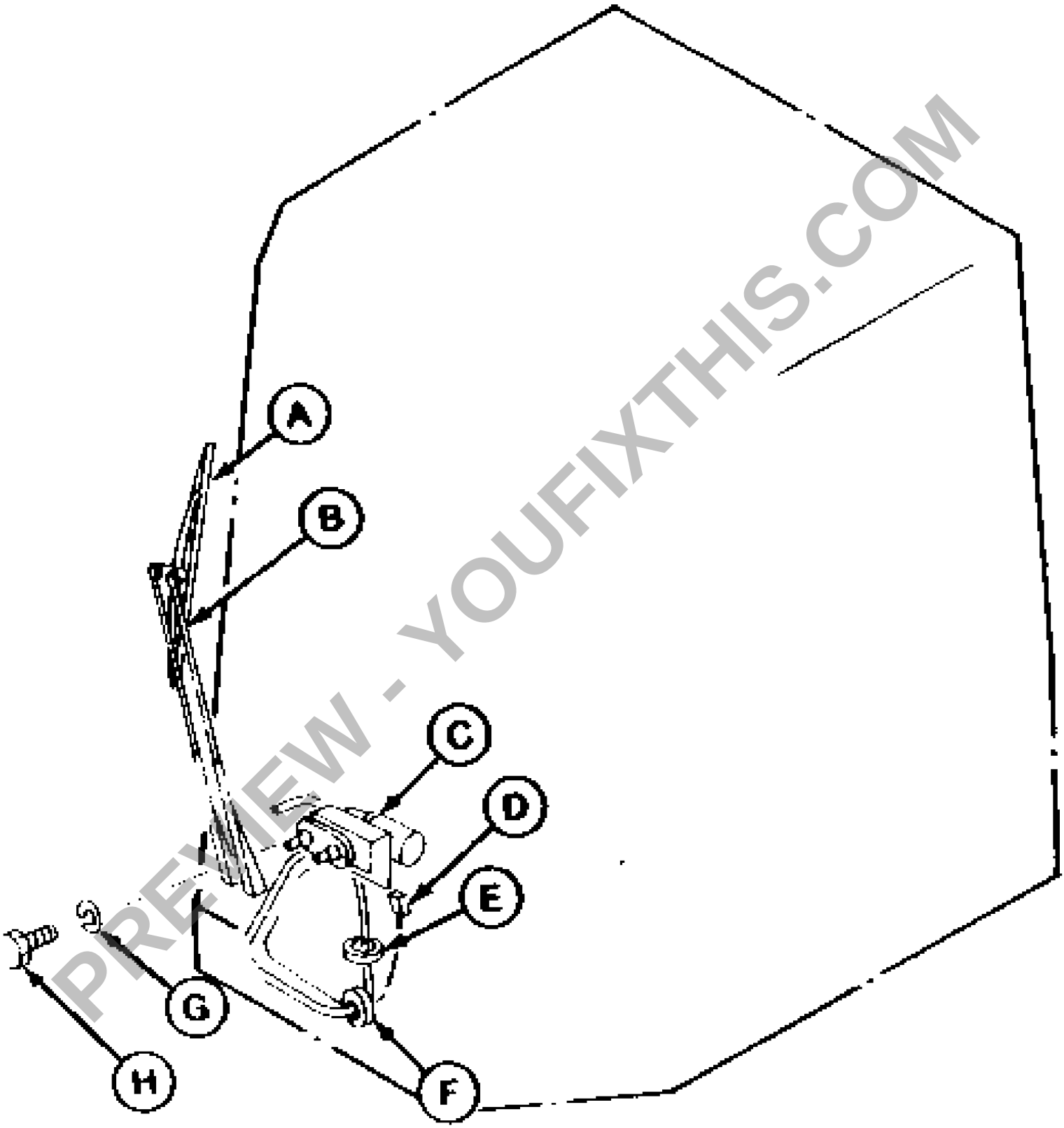
A - Handle
B - Nut (2 used)
C - Nut
D - Nut
E - Fuel Shut-Off Cable

Loosen nuts (B) and remove handle (A).

6. Loosen nuts (C and D) and remove fuel shut-off cable (E).

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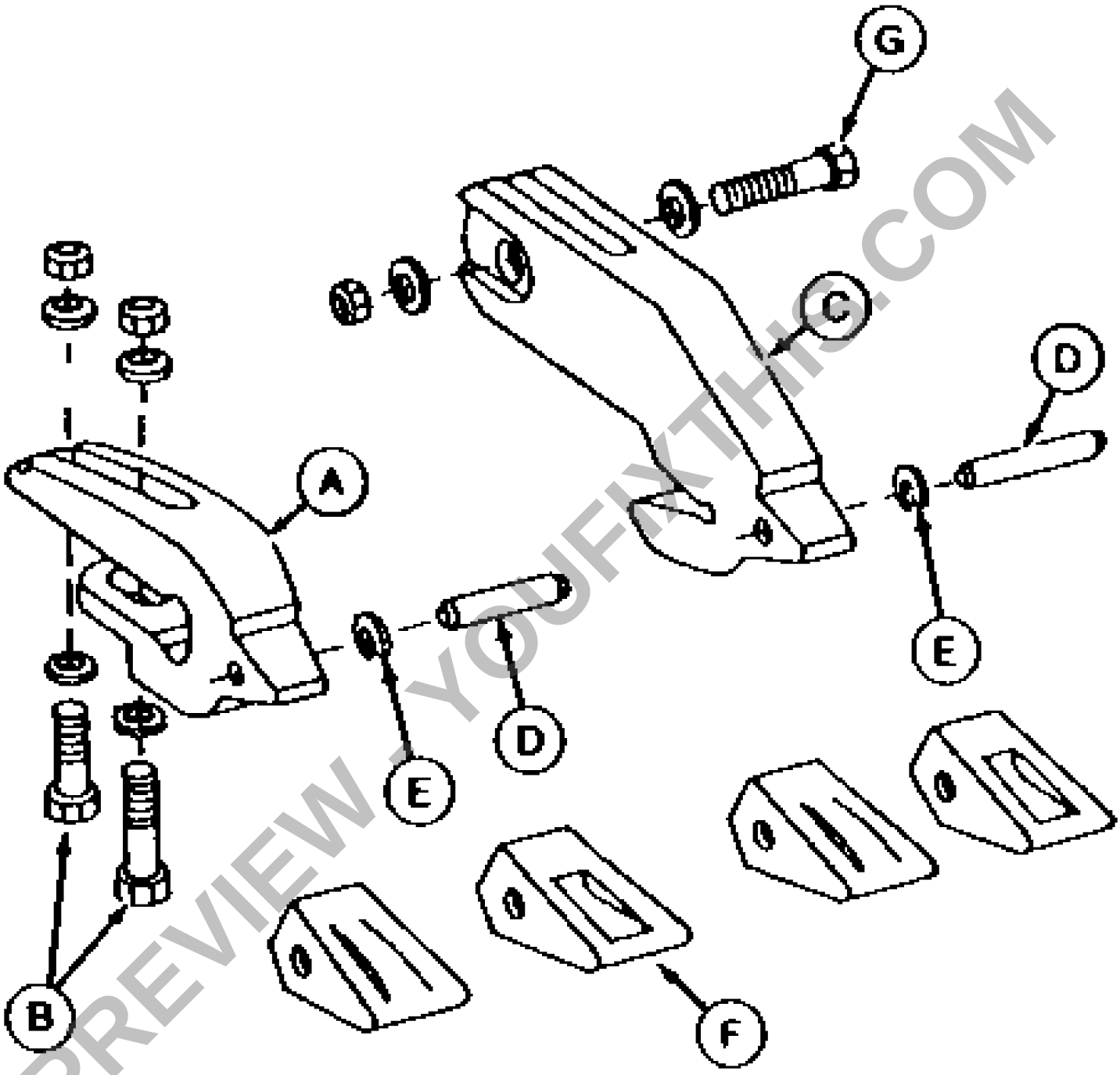
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D - Cover
E - Lock Washer (8 used)
F - Nut (8 used)

Install parts (A-F).

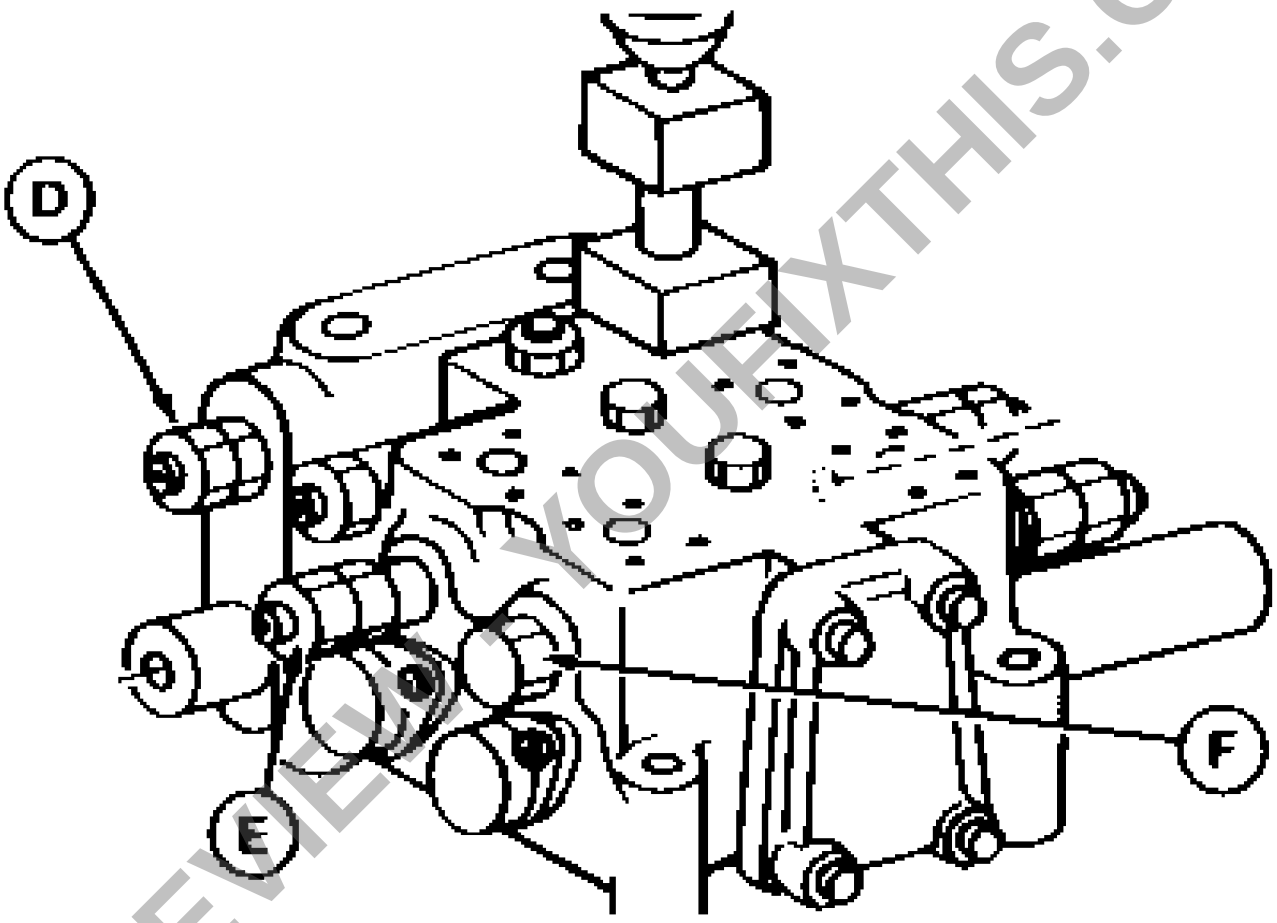
25. Tighten nuts (F) to 134 N·m (99 lb-ft).

Item	Measurement	Specification
Cover-to-Stud Nut	Torque	134 N·m (99 lb-ft)

TX,3160,AA4069-19-1990/05/29

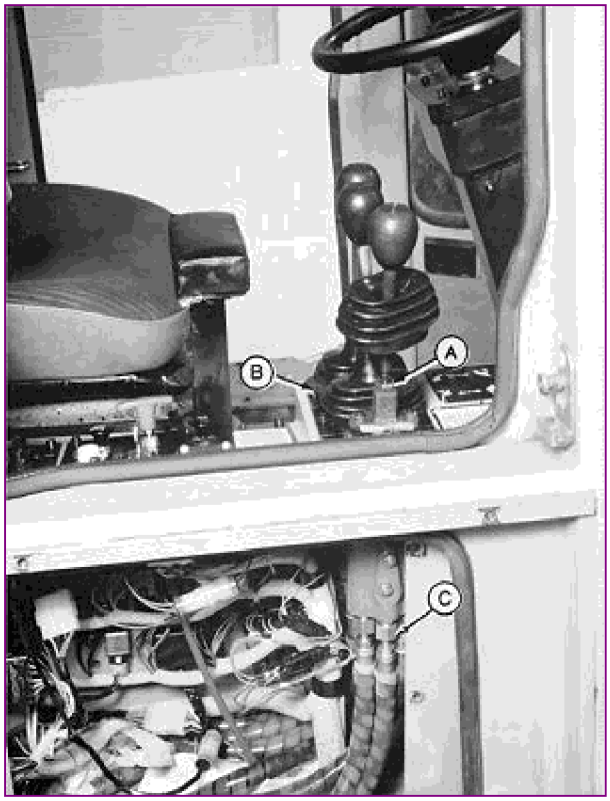
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T7233CD-UN: Controller Removal

Disconnect line (C).

4. Remove nut (A) to remove lever.
5. Remove screws (B) to remove controllers.

TX,3160,AA6470-19-1993/07/26

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