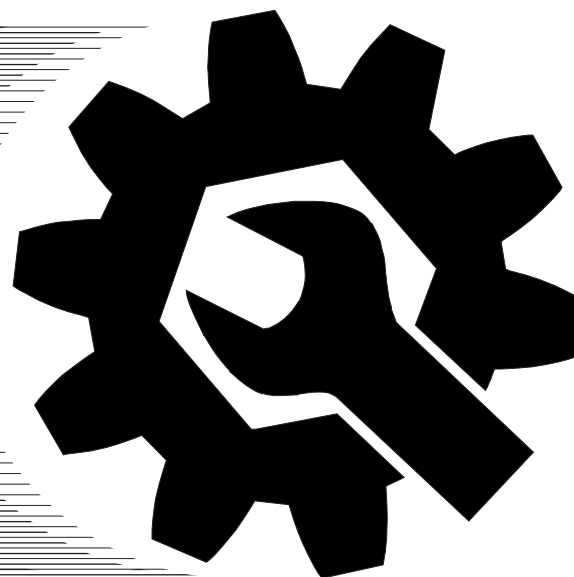


T159676 **Backhoe Control Lever** **Conversion for SAE** **Pattern For HUSCO and** **GRESEN Valves** **AT176781**



INSTALLATION **INSTRUCTIONS**



210C, 310C, 315C, 410C, 510C, 610C, 710C,
300D, 310D, 315D, 410D, 510D, 710D
1320
U

John Deere Dubuque Works
T159676 (26APR00)
(Replaces T159676 (30JUN98))

ENGLISH

COPYRIGHT © 1996
DEERE & COMPANY
Moline, Illinois

All rights reserved
A John Deere ILLUSTRATION® Manual

T159676-19-26APR00

Live With Safety

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



TS231 -19-07OCT88

DX,LIVE -19-25SEP92-1/1

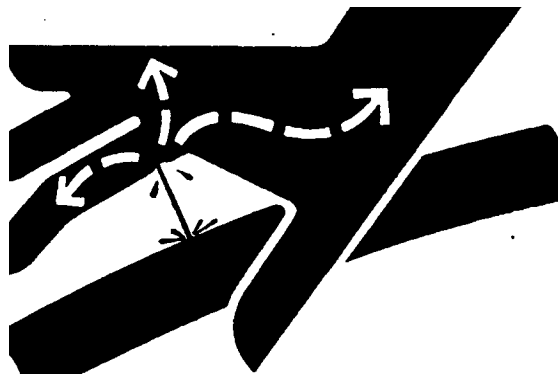
Avoid High-Pressure Fluids

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 should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



X9811 -UN-23AUG88

DX,FLUID -19-03MAR93-1/1

Parts List

This AT176781 kit contains the following parts. Part numbers and installation time may change without notice. This kit applies to both the HUSCO and GRESEN valves.

Average Installation Time: 1 hour

Part Number and Name (Quantity Used):

- T113338 Label
- T113339 Label
- T113340 Label
- T113341 Label

TX,II,CT36 -19-24APR00-1/1

Specifications

Item	Measurement	Specification
7/16 in. Tie Bolt	Torque	65 ± 6 N•m (48 ± 5 lb-ft)
1/2 in. Tie Bolt	Torque	100 ± 10 N•m (74 ± 7.5 lb-ft)

CED,OUTX547,44 -19-30JUN98-1/1

210C And 300D—(S.N. —802199)

IMPORTANT: There is no need to change spools on the 210C and 300D to change from John Deere pattern to an alternate pattern. The spools are the same.

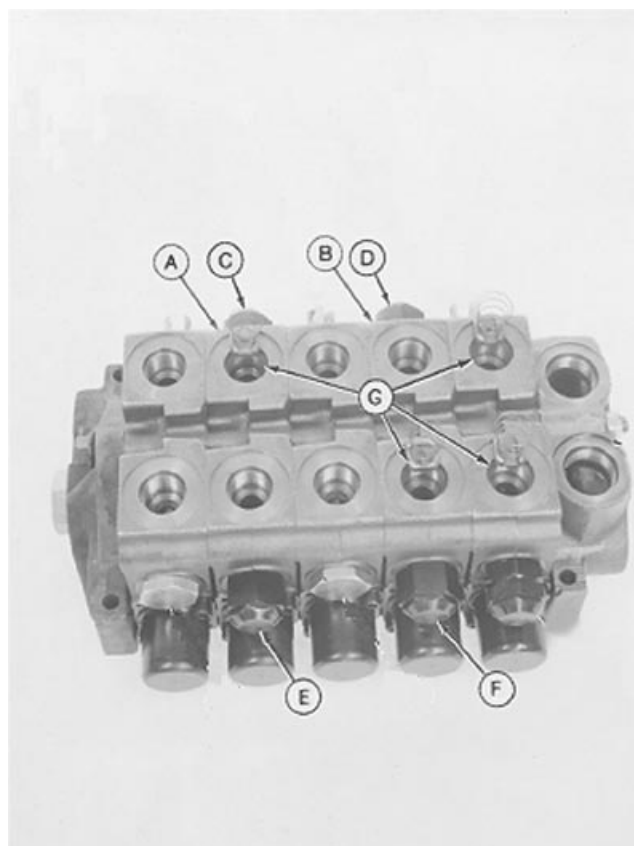
The bottom port of the boom valve section (B) has an orifice and adapter that must be moved when the bottom hose is moved.

The top port of the crowd valve section (A) has an orifice and adapter that must be moved with the top hose.

1. To change from John Deere lever pattern to an alternate pattern, exchange the bottom hose in the boom section (B) with the bottom hose in the crowd section (A).
2. Exchange the top hose in the boom section (B) with the top hose in the crowd section (A).

IMPORTANT: When exchanging relief valves, make sure that the spring and poppet are with the relief valve.

3. Exchange top crowd circuit relief valve (C) with top boom circuit relief valve (D).
4. Exchange bottom crowd circuit relief valve (E) with bottom boom circuit relief valve (F).



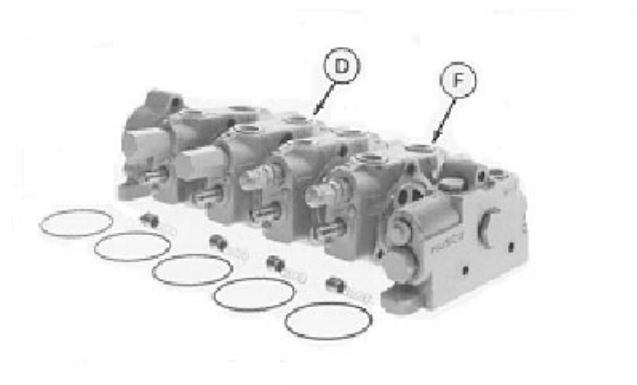
A—Crowd Section
 B—Boom Section
 C—Crowd Circuit Relief Valve (top)
 D—Boom Circuit Relief Valve (top)
 E—Crowd Circuit Relief Valve (bottom)
 F—Boom Circuit Relief Valve (bottom)
 G—Orifice and Adapter

T101893 -JUN-11JUL96

TX,II,CT31 -19-11JUN96-1/1

310C, 315C, 300D—(S.N. 802200—), 310D And 315D

IMPORTANT: DO NOT change spools on the 300D— (S.N. 802200—), 310C, 310D, 315C, or 315D to change from John Deere pattern to an alternate pattern. The spool must remain with its respective section.



T101887 -UN-09JUL96

1. Remove and disassemble backhoe valve. (See appropriate technical manual, Group 3360 for procedure.)
2. Exchange boom section (D) and crowd section (F)
3. Assemble backhoe valve. Tighten 7/16 in. tie bolts to 65 ± 6 Nm (48 ± 5 lb-ft) Tighten 1/2 in. tie bolts to 100 ± 10 N.m (74 ± 7.5 lb-ft).

Specification

7/16 in. Tie Bolt Torque 65 ± 6 N•m (48 ± 5 lb-ft)

Specification

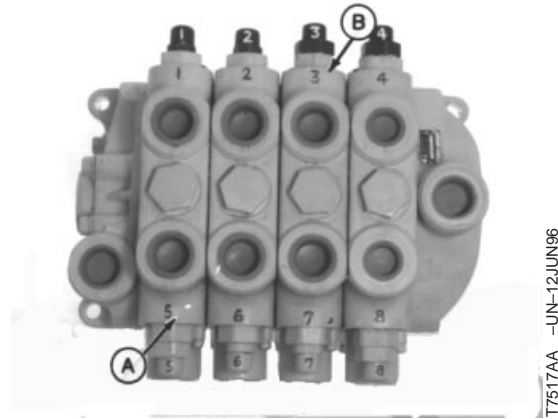
1/2 in. Tie Bolt Torque 100 ± 10 N•m (74 ± 7.5 lb-ft)

4. Install backhoe valve in machine. (See appropriate technical manual, Group 3360 for procedure.)
5. Connect linkage. Connect hoses to the section they were removed from.

TX,II,CT32 -19-11JUN96-1/1

410C, 410D, 510C, 510D, 610C, 710C, 710D

1. Remove the bottom caps and spool positioners from crowd section (A) and boom section (B).
2. Disconnect linkage from crowd valve section and boom valve section.
3. Remove seals from boom and crowd spools and install new seals. (See Technical Manual, Group 3360.)
4. Remove the boom and crowd spools and the spool seals.
5. Exchange the boom and crowd spools with new spool seals. (See Technical Manual, Group 3360.)
6. Exchange the crowd spool and circuit relief valves with the boom spool and circuit relief valves.
7. Connect linkage. Exchange hoses from crowd to boom and boom to crowd.
8. Start the machine and heat oil to operating temperature. Check for smooth and proper function of the valve functions.

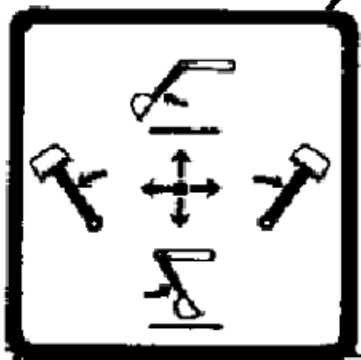
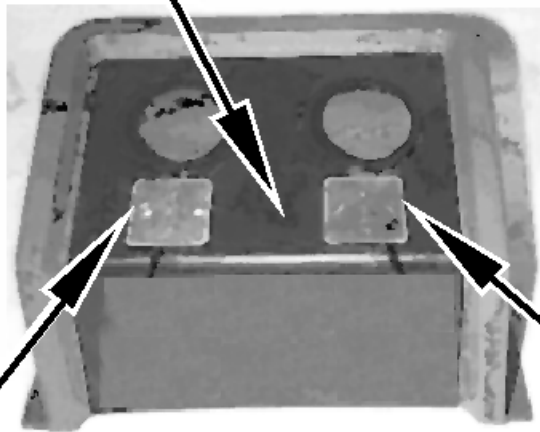


TX,II,CT33 -19-11JUN96-1/1

210C, 300D, 310C, 310D, 315C, 315D, 410D, 510D And 710D



T113341 Caution Label



T113339 Control Label



T113340 Control Label

T8057AA

NOTE: References to right and left are viewed as from operator's seat in the backhoe position.

1. Remove existing backhoe control labels (A and B) and replace with T113340 Control Label (right side) and T113339 Control Label (left side).

2. Install T113341 Caution Label centered between the two new control labels.

410C, 510C, 610C, And 710C

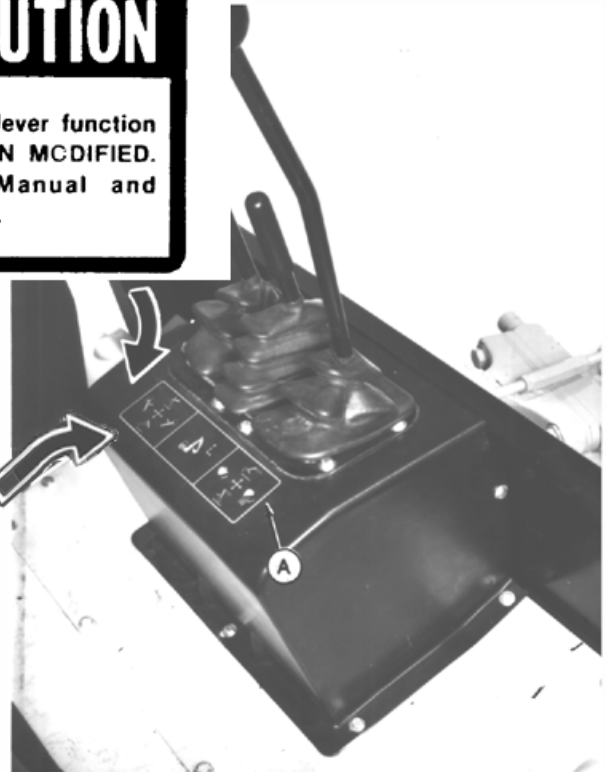
T113341 Caution Label



T113338 Control Label



T8057AB



T8057AB -UN-27JUN96

1. Remove existing control label (A) and replace with T113338 Control Label.
2. Install T113341 Caution Label to the left of T113338 Control Label.

TX,II,CT35 -19-11JUN96-1/1

HELP!! HELP!! HELP!! HELP!!

We need your help to continually improve our technical publications. Please FAX or mail your comments, ideas and improvements.

SEND TO: John Deere Dubuque Works
P.O. Box 538
Attn: Publications Supervisor, Dept. 303
Dubuque, Iowa 52004-0538

FAX NUMBER: 319-589-5800

Ideas, Comments (Please State Page Number): _____

OVERALL, how would you rate the quality of "ALL" Installation Instructions provided to you? (Check one)

	Poor		Fair		Good		Very Good		Excellent
1	2	3	4	5	6	7	8	9	10

Company Name_____

Address_____

Phone_____

FAX No._____

Dealer Acct. No._____

THANK YOU!