



# Halverson Firewood Processor

## Skid Steer Specifications and Controls

### Trouble Shooting Guide

Version 1.1

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**Halverson Wood Products, Inc.**

205 College Street  
Pine River, MN 56474  
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## Introduction

Thank you for taking the time to review this troubleshooting manual. Halverson Wood Products, Inc. prides itself on the design and manufacture of innovative products that are intended for safe multigenerational use. If in doubt, or if any additional information is needed, contact our technical assistance department prior to performing any diagnosis or repairs.

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*The information contained in this guide does not affect or extend the expressly stated warranties or warranty limitations detailed in your owner's manual.*

**Note:** In this guide, the term "machine" references any heavy equipment including skid steers, wheel loaders, track loaders, mini excavators, and other construction, agricultural, and forestry power equipment intended for use with a Halverson Firewood Processor.

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Caterpillar Skid Steers and Track Loaders  
HWP-140B / 120 / 100 Processors



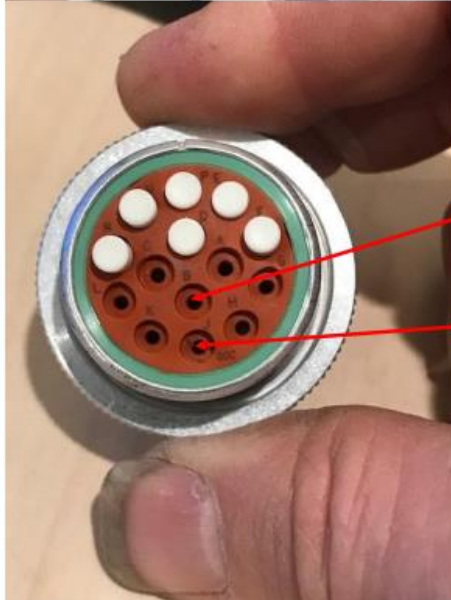


Caterpillar Skid Steers and Track Loaders  
HWP-140B / 120 / 100 Processors *continued*



Rabbit  
must be  
down

J (Aux 8)  
must be  
down



B Black Ground

J Red 12v Hot

Caterpillar Skid Steers and Track Loaders  
 HWP-150 Processor



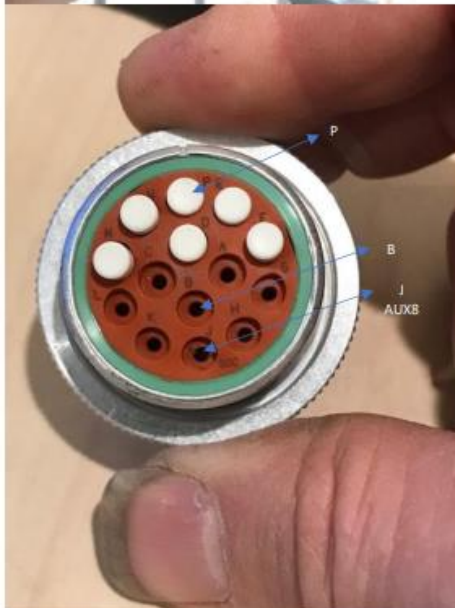


Caterpillar Skid Steers and Track Loaders  
HWP-150 Processor *continued*



Rabbit(Aux 7)  
must be down  
to use trigger.

Aux 8 must be  
down to use  
wedge.



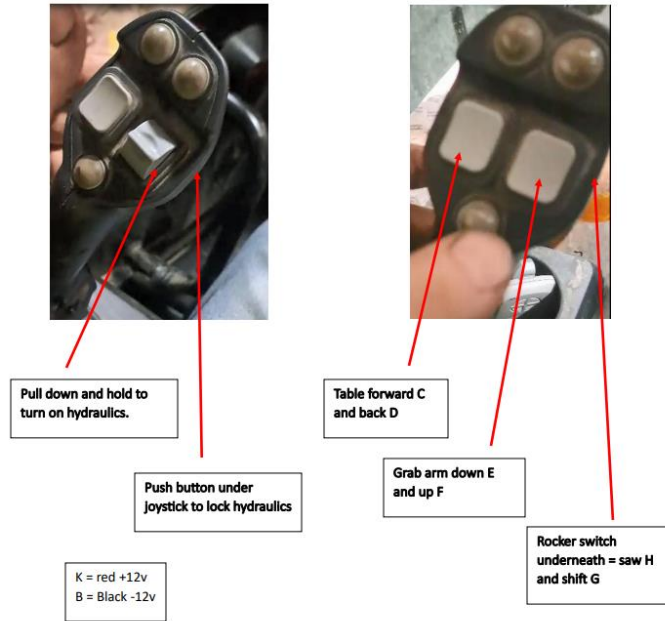
If pin P has +12v with  
ignition on, put red  
wire on P and put  
Grey wire on J.

Use Aux 8 switch to  
run wedge up and  
down with Grab Arm  
buttons.

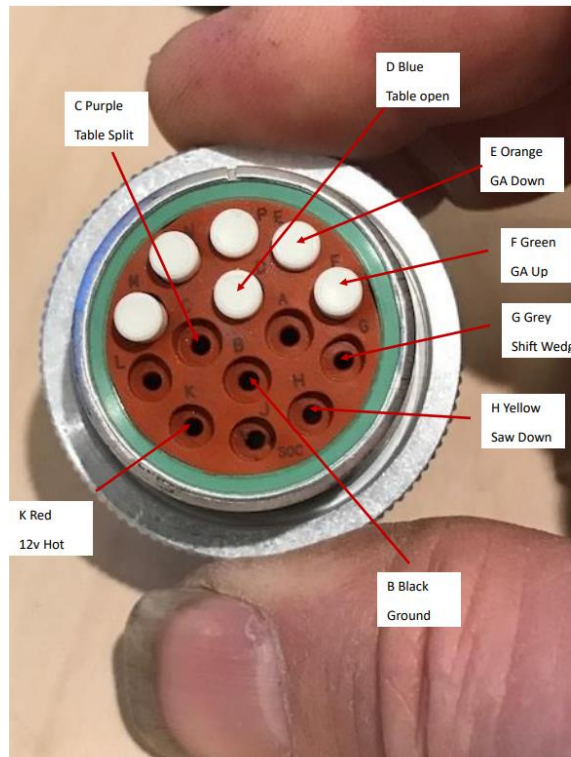
B Black -12V



JCB 190T Controls

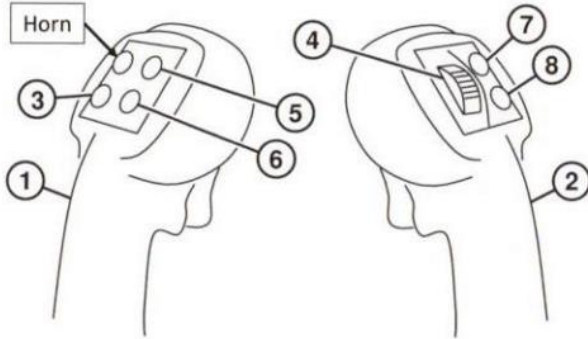


Jcb Suggested 14 pin for 150





John Deere 333G Controls



**LEGEND:**

- |                               |                                       |  |  |
|-------------------------------|---------------------------------------|--|--|
| 1 - Left Joystick             | 4 - Auxiliary Proportional Switch     | 5 - Auxiliary Third Function B Switch  | 8 - Auxiliary Second Function B Switch |
| 2 - Right Joystick            | 5 - Auxiliary Third Function A Switch | 7 - Auxiliary Second Function A Switch | 9 - Auxiliary Fourth Function Switch   |
| 3 - Auxiliary Flow Set Switch |                                       |  |  |

**Left Joystick: "Grapple"**

Button 5 3<sup>rd</sup> Aux A (Top Right) – PIN E  
 Button 6 3<sup>rd</sup> Aux B (Bottom Right) – PIN D

**Right Joystick: "Splitter"**

Button 7 2<sup>nd</sup> Aux A (Top Right) – PIN G  
 Button 8 2<sup>nd</sup> Aux B (Bottom Right) – PIN C

**Control Panel: "Saw Down"**

Toggle 9 4<sup>th</sup> Aux (Toggle down "right arrow") – PIN F

Not used:

Toggle 9 4<sup>th</sup> Aux (Toggle up "left arrow") – PIN H



Removed Ground Pin "A" with your provided removal tool, pulled 2 white blank plugs (Pin "B" and "K")



Created double pin and spliced to original ground to add ground to PIN "A" and "B"

Ran a fused 16g power wire from cab left fuse box to add ground to PIN "K"





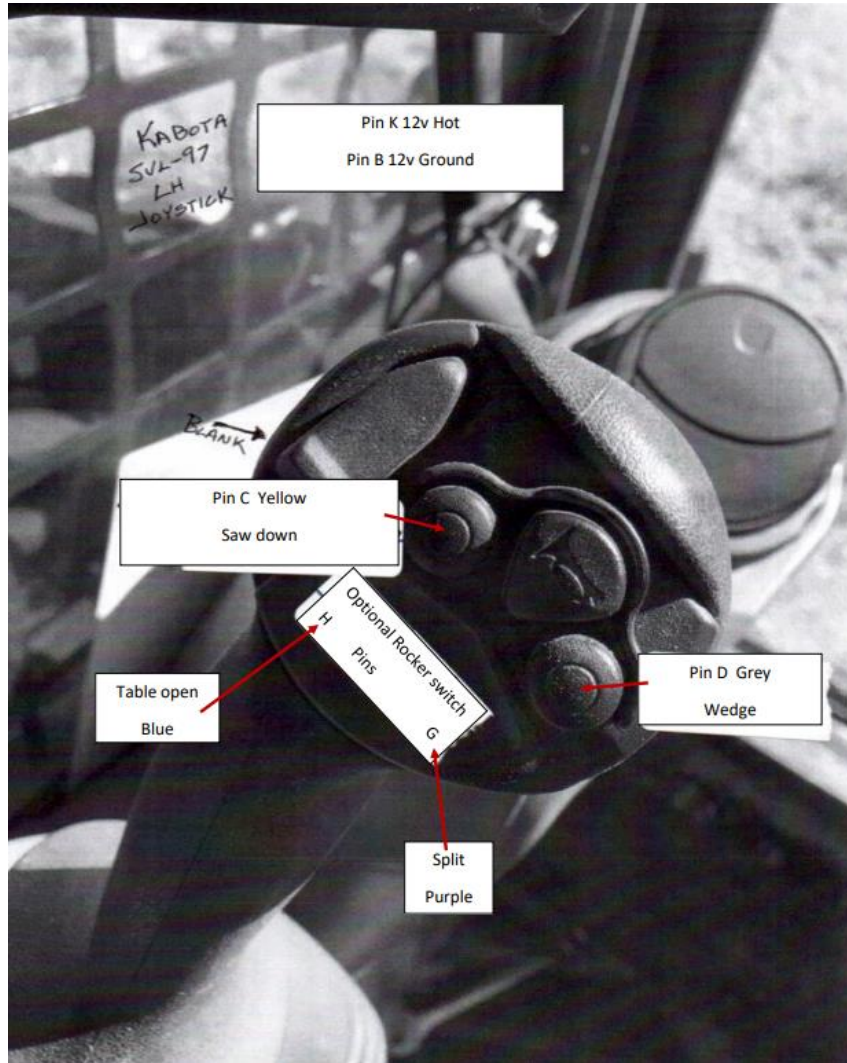
John Deere 333G Controls *continued*



Finished Pins

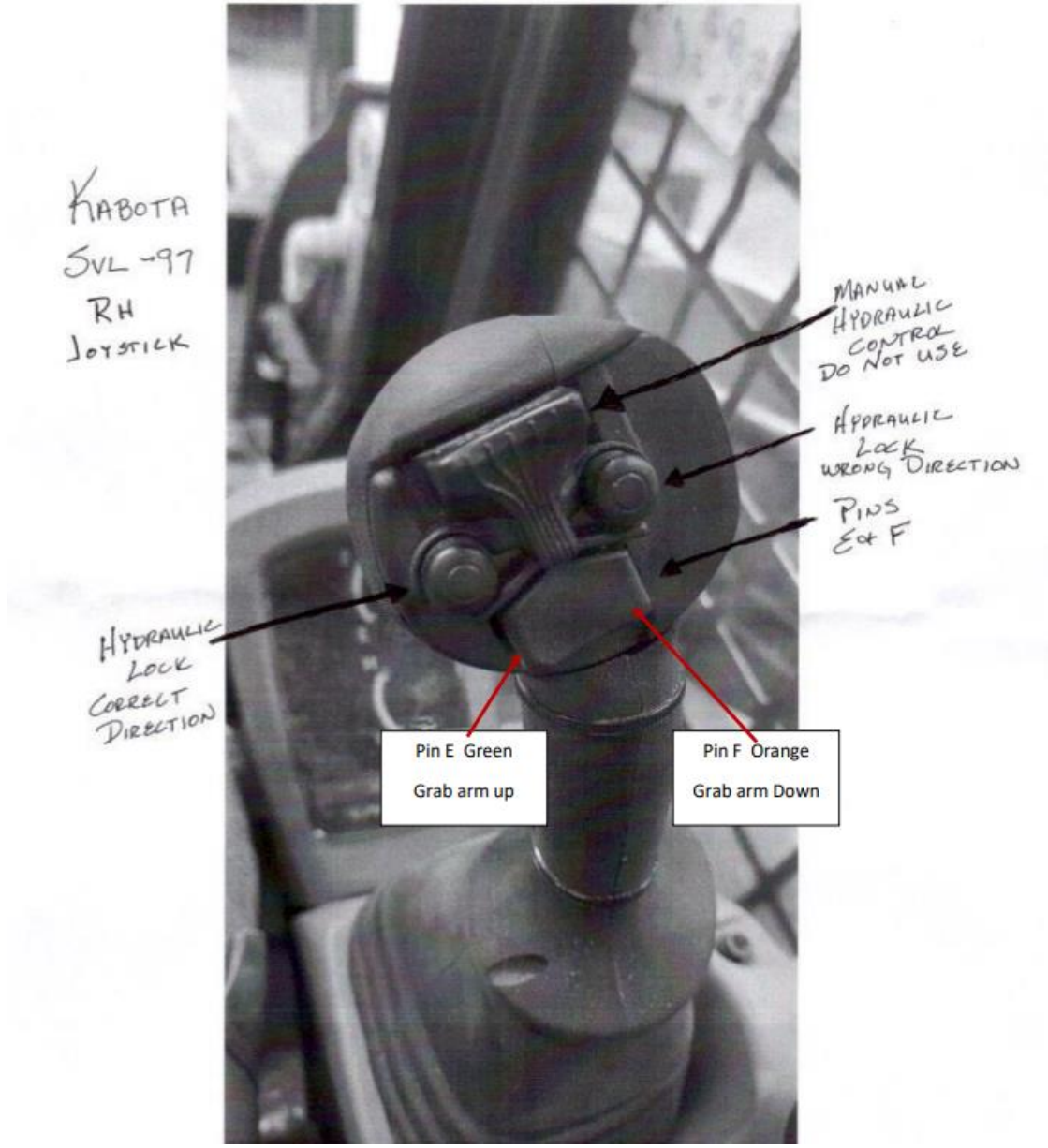
- A: Ground (Deere)
- B: Ground (Others)
- C: 2<sup>nd</sup> Aux A (Right Joystick)
- D: 3<sup>rd</sup> Aux B (Left Joystick)
- E: 3<sup>rd</sup> Aux A (Left Joystick)
- F: 4<sup>th</sup> Aux "right arrow" (toggle down)
- G: 2<sup>nd</sup> Aux B (Right Joystick)
- H: 4<sup>th</sup> Aux "left arrow" (toggle up)
- K: Added 12V power (+)

Kubota SVL-97 Controls



Left Stick

Kubota SVL-97 Controls *continued*



*Right Stick*





## Takeuchi TL8 Controls

Pin K= 12V+  
Pin B=12V-



- A HYDRAULIC FLOW BUTTON (D MUST BE LIT)
- C ONE WAY FLOW CONTROL (SHOULD BE LIT)
- D DETENT (HYDRAULIC LOCK)

*Left Stick*

Takeuchi TL8 Controls *continued*

Pin K= 12V+  
Pin B=12V-



A AUX 1ST FLOW RATE SELECTOR (CHOOSE 100%)

*Right Stick*

Takeuchi TL6R Controls



This switch must be depressed to activate aux



Push unlock button

Turn on Aux 1st to enable continuous flow



Takeuchi TL6R Controls *continued*



Press and release button A to lock hydraulics. Pressing it again will unlock.

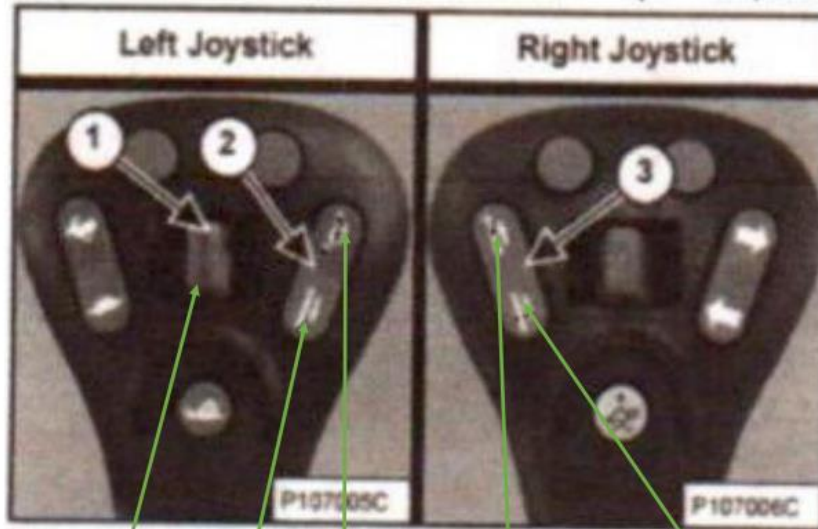


**BUTTON TO PIN**  
 C = grab arm down orange  
 D = grab arm up green  
 E = table split purple  
 F = table open blue  
 J (trigger) = saw down

K red +12v  
 B black -12v

\*\*\*\* Switch quick couplers on the wood processor so the male is on the large hose. \*\*\*\*

Bobcat S185 Controls



D (Left)  
Table Open  
Blue

A (Right)  
Split  
Purple

E  
Grab arm  
down  
Orange

F  
Grab arm  
up  
Green

H  
Wedge  
Grey

G  
Saw down  
Yellow

K=Power Red  
B=Ground Black



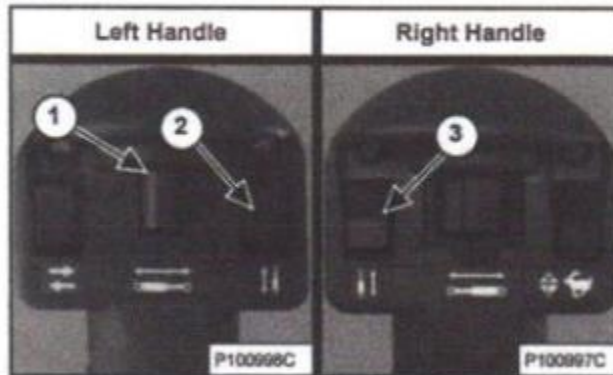
Bobcat 7-Pin Controls

**HWP-140 Only with HWP Diode Installed**  
**Button Layout Standard and ACS (MUST BE IN 4 BUTTON MODE)**

Button	Direction	Funtion
1	Left	None
1	Right	None
2	Up	Splitter Out
2	Down	Splitter Back
3	Up	Grab Arm Shift
3	Down	Saw Down

*Standard And ACS (If Equipped)*

Figure 99



Bobcat 7-Pin Controls *continued*

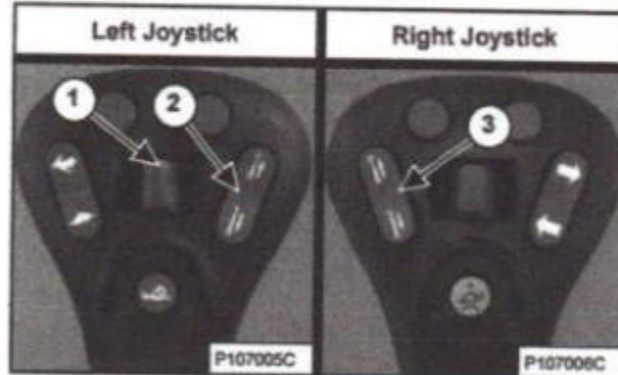
**HWP-140 & 150 Models**

**Button Layout SJC (MUST BE IN 5 BUTTON MODE WITH WEDGE)**

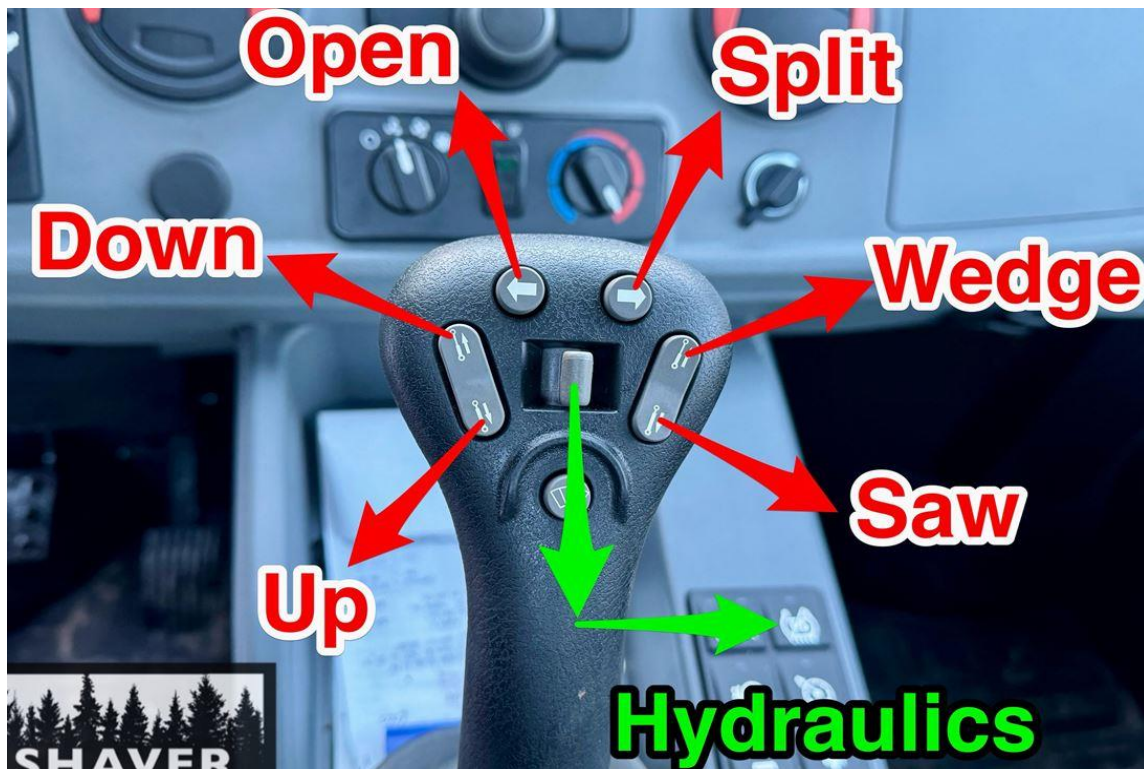
Button	Direction	Funtion
1	Left	Splitter Back
1	Right	Splitter Out
2	Up	Grab Arm Down
2	Down	Grab Arm Up
3	Up	Wedge
3	Down	Saw Down

*SJC (If Equipped)*

**Figure 100**







WHILE HOLDING THE SENTER PADDLE TO THE RIGHT, CLICK THE TRIGGER TO LOCK HYDRAULICS.

OPERATING INSTRUCTIONS

### Operating The Rear Hydraulics

Figure 80

1. Press the auxiliary hydraulics button (Item 1) to activate auxiliary hydraulics. The LED light (Item 2) [Figure 80] will be illuminated when the auxiliaries are activated.
2. Press the auxiliary hydraulics button (Item 1) again until the LED light (Item 4) [Figure 80] is illuminated and the rear auxiliaries hydraulics are activated.
3. Press the thumb switch (Item 1) to the right (A) to supply hydraulic flow to the rear female coupler (A) [Figure 81].
4. Press the thumb switch (Item 1) to the left (B) to supply hydraulic flow to the rear male coupler (B) [Figure 81].

OR

For continuous flow of hydraulic oil to the female coupler, move and hold the thumb switch (Item 1) to the right, press the trigger switch (Item 2). Press the switch (Item 2) [Figure 81] a second time to disengage the continuous flow.

OR

For continuous flow of hydraulic oil to the male coupler, move and hold the thumb switch (Item 1) to the left and then press the trigger switch (Item 2) on the joystick. Press the switch (Item 2) [Figure 81] a second time to disengage continuous flow.

**NOTE:** Reverse flow can cause damage to some attachments. Use reverse flow with the attachment only if approved. See your attachment Operation & Maintenance Manual for detailed information.

#### Relieve Hydraulic Pressure (Utility Work Machine Rear Hydraulic Couplers)

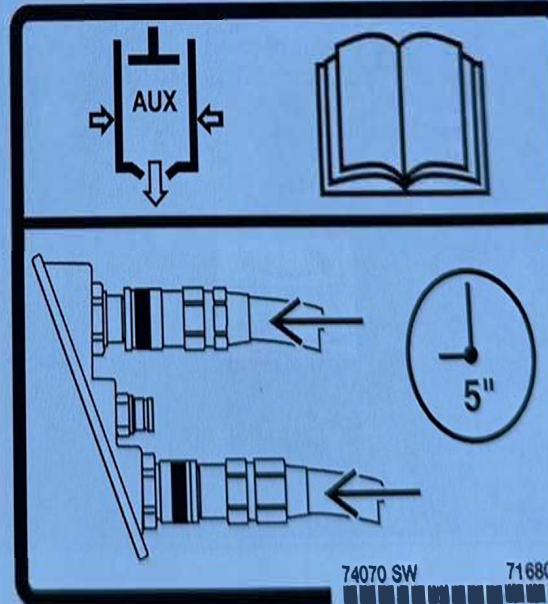
**⚠ WARNING**



**NOTE:** The auxiliary hydraulic switch LED (Item 2 and 3) are used for the front auxiliary hydraulic functions only.  
(See Front Auxiliary Hydraulics Operation on Page 56)

**BURN HAZARD**  
Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments.  
Be careful when connecting and disconnecting quick couplers. \*

Figure 81



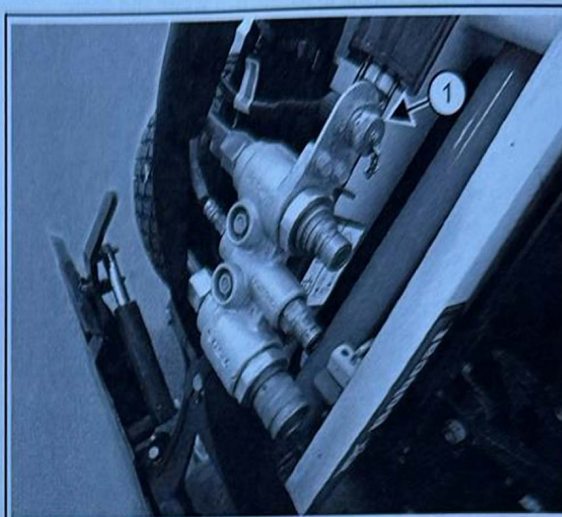
### Rear Auxiliary Quick Couplers

- When Connecting: Push the quick couplers tightly together and hold for five seconds; the pressure is automatically relieved as the couplers are installed.
- When Disconnecting: Push the quick couplers tightly together and hold for five seconds; then retract the sleeves until the couplers disconnect.

### ATTACHMENT CONTROL DEVICE (ACD)

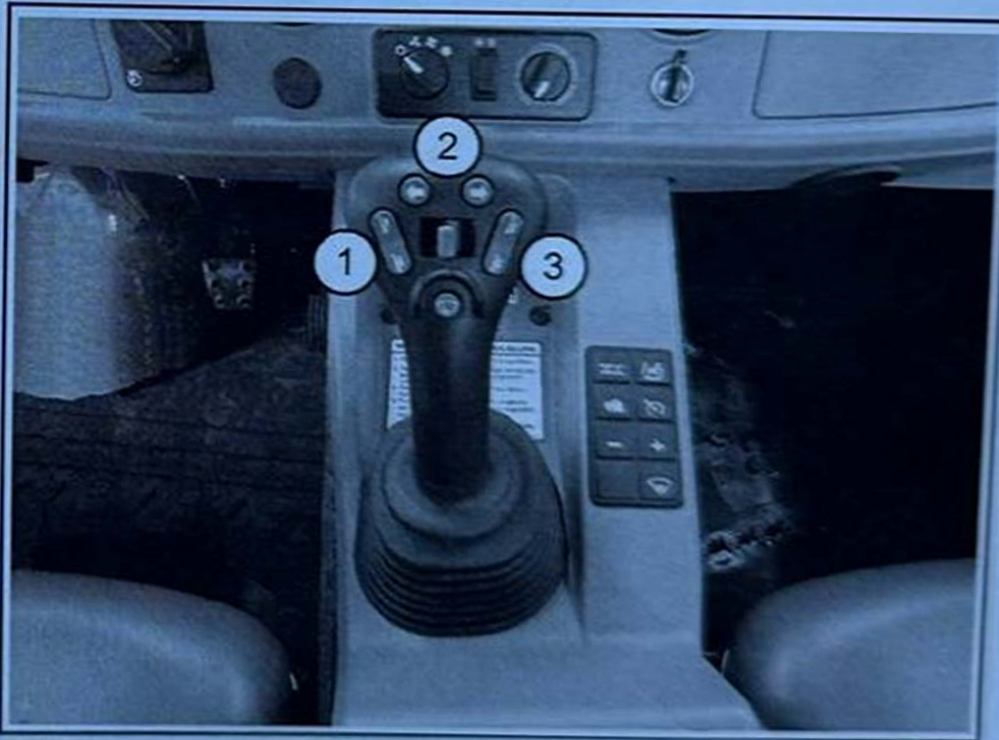
#### Attachment Control Device (ACD) Description

Figure 82



Connect the attachment electrical harness to the Attachment Control Device (ACD) (If equipped) (Item 1) [Figure 82].

**Figure 83**



Auxiliary hydraulic function switches (Items 1, 2, and 3) [Figure 83] are used to control some attachment functions through the ACD.

See the appropriate attachment Operation & Maintenance Manual for control details.



## ATTACHMENT HARNESS 14 PIN OUT PLACEMENTS

\*Suggested Pin Out-Please contact your skid steer dealer for specifics

CAT Pre 2022		
J	POWER	Red
B	GROUND	Black
C	SAW DOWN	Yellow
D	SPLITTER OUT	Purple
E	GRAB UP	Green
F	GRAB DOWN	Orange
A	SPLITTER BACK	Blue

KUBOTA		
K	POWER	Red
B	GROUND	Black
C	SAW DOWN	Yellow
D	SPLITTER OUT	Purple
F	GRAB UP	Green
E	GRAB DOWN	Orange
H	SPLITTER BACK	Blue

CAT 2022 & Newer		
P	POWER	Red
J	SHIFT/WEDGE	Grey
B	SAW DOWN	Black
C	SPLITTER OUT	Yellow
D	GRAB UP	Purple
E	GRAB DOWN	Green
F	SPLITTER BACK	Orange
A	TABLE OPEN	Blue

KUBOTA SVL		
K	POWER	Red
B	GROUND	Black
C	SAW DOWN	Yellow
D	SHIFT/WEDGE	Grey
E	GRAB UP	Green
F	GRAB DOWN	Orange
G	SPLIT	Purple
H	TABLE OPEN	Blue

BOBCAT		
K	POWER	Red
B	GROUND	Black
H	SAW DOWN	Yellow
A	SPLITTER OUT	Purple
F	GRAB UP	Green
E	GRAB DOWN	Orange
D	SPLITTER BACK	Blue
G	SHIFT/WEDGE	Grey

JCB-VOLVO		
K	POWER	Red
B	GROUND	Black
H	SAW DOWN	Yellow
C	SPLITTER OUT	Purple
F	GRAB UP	Green
E	GRAB DOWN	Orange
D	SPLITTER BACK	Blue
G	SHIFT/WEDGE	Grey

CASE		
K	POWER	Red
B	GROUND	Black
G	SAW DOWN	Yellow
E	SPLITTER OUT	Purple
C	GRAB UP	Green
D	GRAB DOWN	Orange
F	SPLITTER BACK	Blue

GEHL-MUSTANG		
A	POWER	Red
B	GROUND	Black
G	SAW DOWN	Yellow
E	SPLITTER OUT	Purple
D	GRAB UP	Green
C	GRAB DOWN	Orange
F	SPLITTER BACK	Blue

<b>TEREX-ASV-TAKEUCHI</b>		
K	POWER	Red
B	GROUND	Black
J	SAW DOWN	Yellow
E	SPLITTER OUT	Purple
D	GRAB UP	Green
C	GRAB DOWN	Orange
F	SPLITTER BACK	Blue

<b>JOHN DEERE</b>		
H	POWER	Red
A	GROUND	Black
D	GRAB ARM UP	Green
G	SPLITTER OUT	Purple
F	GRAB UP	Blue
C	SPLITTER BACK	Yellow
E	GRAB ARM DOWN	Orange

<b>NEW HOLLAND</b>		
J	POWER	Red
B	GROUND	Black
CAT	SAW DOWN	Yellow
E	SPLITTER OUT	Purple
C	GRAB UP	Green
D	GRAB DOWN	Orange
F	SPLITTER BACK	Blue

<b>JOHN DEERE 2023 &amp; NEWER</b>		
K	POWER	Red
A	GROUND	Black
C	GRAB DOWN	Orange
G	GRAB UP	Green
D	TABLE OPEN	Blue
E	SPLIT	Purple
F	SAW DOWN	Yellow
H	SHIFT/WEDGE	Grey

<b>WACKER NEWSON</b>		
K	POWER	Red
B	GROUND	Black
C	GRAB DOWN	Orange
D	GRAB UP	Green
E	TABLE OPEN	Blue
F	TABLE SPLIT	Purple
G	SAW DOWN	Yellow
H	SHIFT/WEDGE	Grey