

## **Special Instruction**

# **Procedure For Connecting Wire Harnesses To Work Tools**

### **Work Tool:**

**BA18 (S/N: AZN1-UP; ACE1-UP)**  
**PC205 (S/N: RBG1-UP)**  
**PC206 (S/N: DDG1-UP)**  
**PC210 (S/N: GDR1-UP)**  
**PC6 (S/N: AKS1-UP)**  
**PC9 (S/N: ALC1-UP)**  
**SG16 (S/N: ALJ1-UP)**  
**SG16B (S/N: MAP1-UP)**  
**SG18 (S/N: AMG1-UP)**  
**SG18B (S/N: SGL1-UP)**  
**SW45 (S/N: WWS1-UP)**  
**SW60 (S/N: WLS1-UP)**  
**SR318 (S/N: PHG1-UP)**  
**SR321 (S/N: BLZ1-UP)**  
**SR17 (S/N: SBA1-UP)**  
**SR18 (S/N: SBB1-UP)**  
**SR21 (S/N: SBC1-UP)**

### **Skid Steer Loader:**

**216 (S/N: 4NZ1-UP)**  
**226 (S/N: 5FZ1-UP)**  
**236 (S/N: 4YZ1-UP)**  
**246 (S/N: 5SZ1-UP)**  
**252 (S/N: FDG1-UP)**  
**262 (S/N: CED1-UP)**  
**228 (S/N: 6BZ1-UP)**  
**248 (S/N: 6LZ1-UP)**  
**216B (S/N: RLL1-UP)**

**226B (S/N: MJH1-UP)**  
**232B (S/N: SCH1-UP)**  
**236B (S/N: HEN1-UP)**  
**242B (S/N: BXM1-UP)**  
**246B (S/N: PAT1-UP)**  
**248B (S/N: SCL1-UP)**  
**252B (S/N: SCP1-UP)**  
**262B (S/N: PDT1-UP)**  
**268B (S/N: LBA1-UP)**

#### **Multi Terrain Loader:**

**257 (S/N: CMM1-UP)**  
**267 (S/N: CMP1-UP)**  
**277 (S/N: CNC1-UP)**  
**247B (S/N: MTL1-UP)**  
**257B (S/N: SLK1-UP)**  
**267B (S/N: CYC1-UP)**  
**277B (S/N: MDH1-UP)**  
**287B (S/N: ZSA1-UP)**

## **Introduction**

Difficulties are being reported for reconnecting the wire harness to the solenoid valves on certain work tools. Once the connector plugs of the wiring harness are disconnected from the connector plugs of the solenoid, there is no identification on the solenoid in order to match the solenoid valves to the connector plugs on the wiring harness. These instructions provide the necessary information in order to complete the connections.

Do not begin installation until you have read the information that is contained in this instruction. Study the Operation and Maintenance Manual and the Service Manual before beginning any service procedures on these work tools.

Work safely. Most accidents that involve product operation, maintenance, and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills, and tools in order to perform these functions properly.

**Reference**Special Instruction, REHS2053, "Conversion Of High Flow Work Tools For Operation On High Flow Skid Steer Loaders And Multi Terrain Loaders"

**Reference**Special Instruction, REHS1182, "Providing A Source to the Control Device for Snowblowers"

## **Application Information**

### **Application Chart**

Table 1

<b>Reference Table</b>
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Work Tool	Wire Harness				
	225-8014	225-8015	166-0294 <sup>(1)</sup>	261-4428 <sup>(2)</sup>	227-5498
BA18 Angle Broom		X	X		
PC205 Cold Planer	X		X		
PC206 Cold Planer	X		X		
PC210 Cold Planer	X		X		
PC6 Cold Planer	X		X		
PC9 Cold Planer	X		X		
SG16 Stump Grinder		X	X		
SG16B Stump Grinder		X	X		
SG18 Stump Grinder	X		X		
SG18B Stump Grinder	X		X		
SW45 Wheel Saw	X		X		
SW60 Wheel Saw	X		X		
Dozer Blade		X	X		
SR318 Snowblower	X			X	
SR321 Snowblower	X			X	
SR17 Snowblower					X
SR18 Snowblower					X
SR21 Snowblower					X

<sup>(1)</sup> Do not use this wire harness on Series B machines.

<sup>(2)</sup> This wire harness is used in conjunction with 225-8014 Work Tool Harness As .

## **225-8015 Work Tool Harness As**

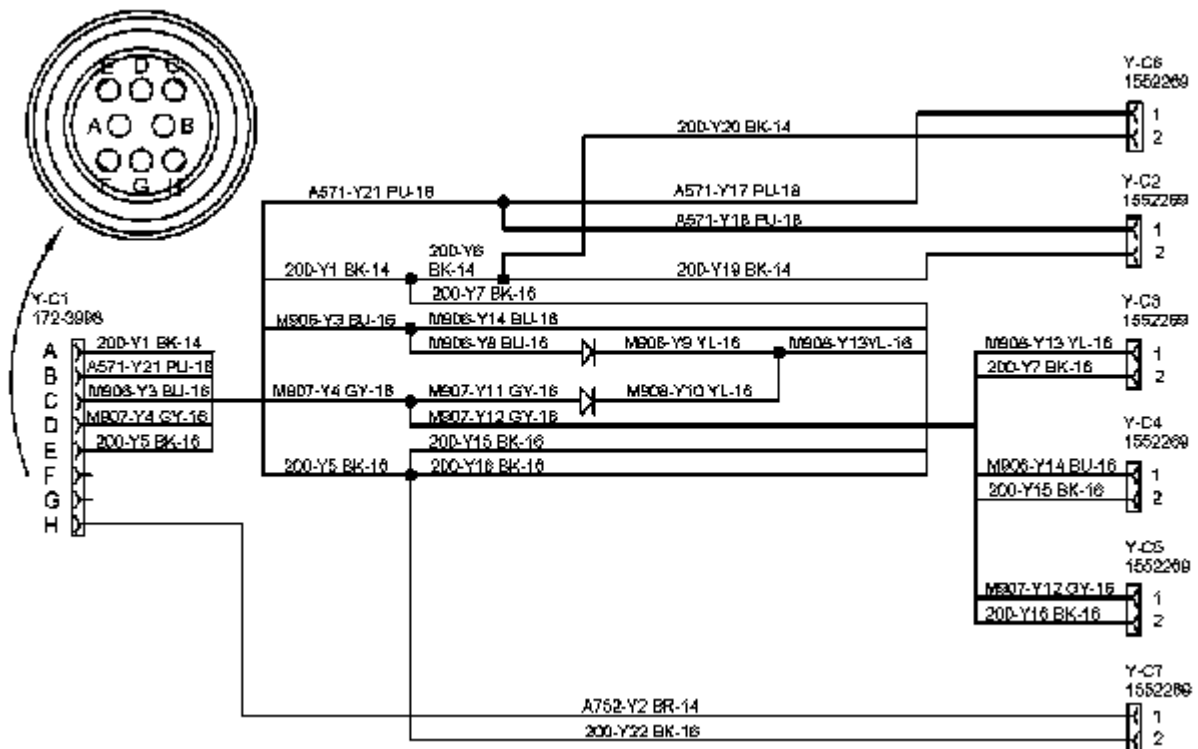
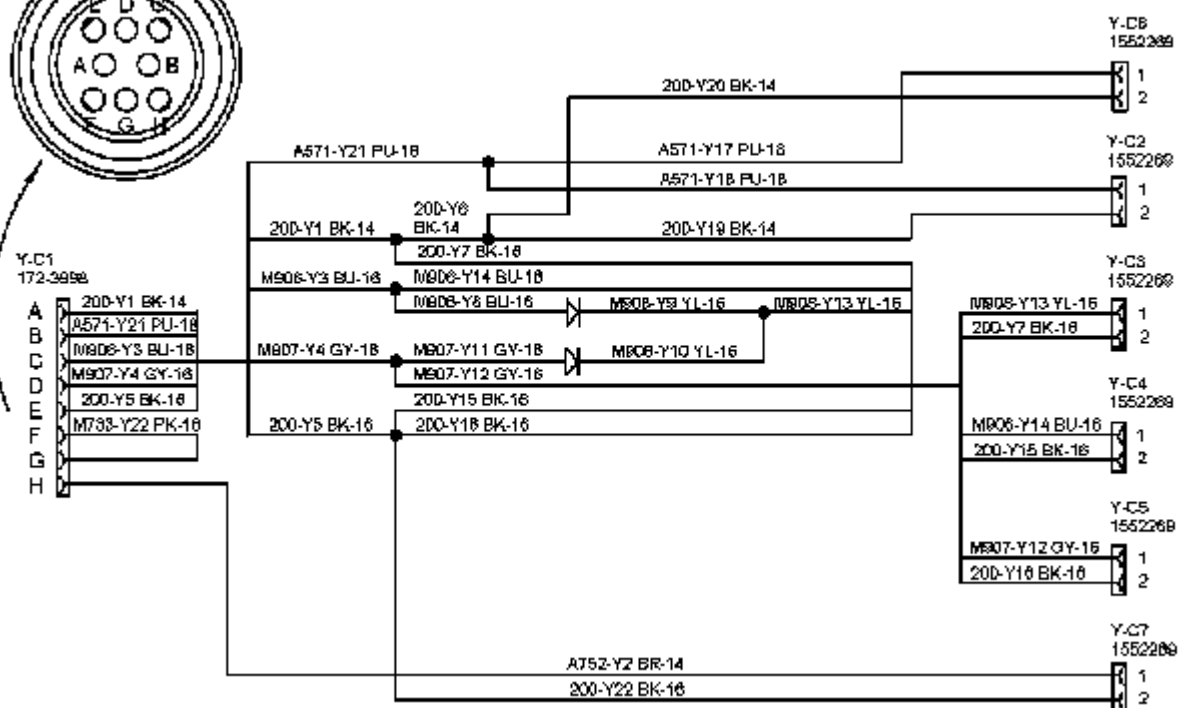


Illustration 1

g01

Use on work tools with standard flow

## 225-8014 Work Tool Harness As



g01c

**Note:** There is a jumper wire between terminal "F" and terminal "G" on the **172-3998** Plug As . This wire allows the machines that are equipped with high flow hydraulic systems to provide high flow operation.

This harness was used on work tools prior to the release of Series B machines. The wiring harness has been cancelled. The wiring harness has been replaced by **225-8015** Work Tool Harness As or **225-8014** Work Tool Harness As .

## **BA18 Angle Broom**



1. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (2) .
2. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (1) .

**Note:** Four of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## **PC205 PC206 PC210 Cold Planer**

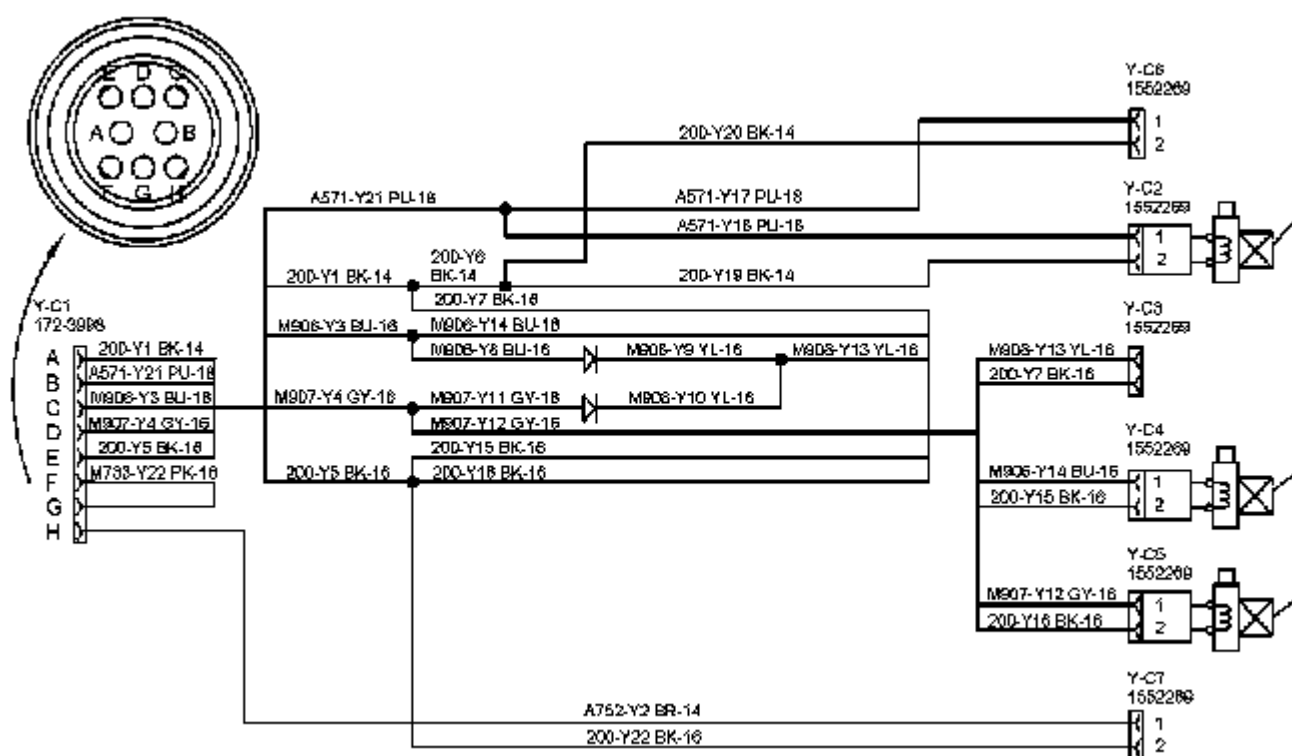


Illustration 5

g011

225-8014 Work Tool Harness As

- (1) Solenoid on the diverter valve for depth (right hand side)
- (2) Solenoid on the diverter valve for rotation
- (3) Solenoid on the diverter valve for depth (left hand side)

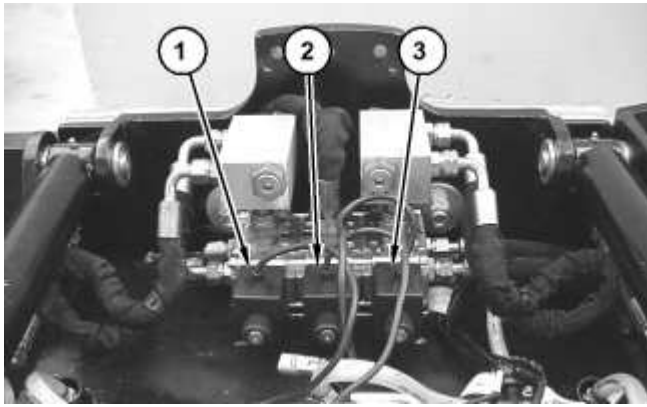


Illustration 6

g01093127

- (1) Solenoid on the diverter valve for depth (right hand side)
- (2) Solenoid on the diverter valve for rotation
- (3) Solenoid on the diverter valve for depth (left hand side)

1. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (1) .
2. Attach the connector of the wire harness with the purple wire and the black wire to solenoid (2) .
3. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (3) .

**Note:** Three of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

### **PC6 and PC9 Cold Planer**



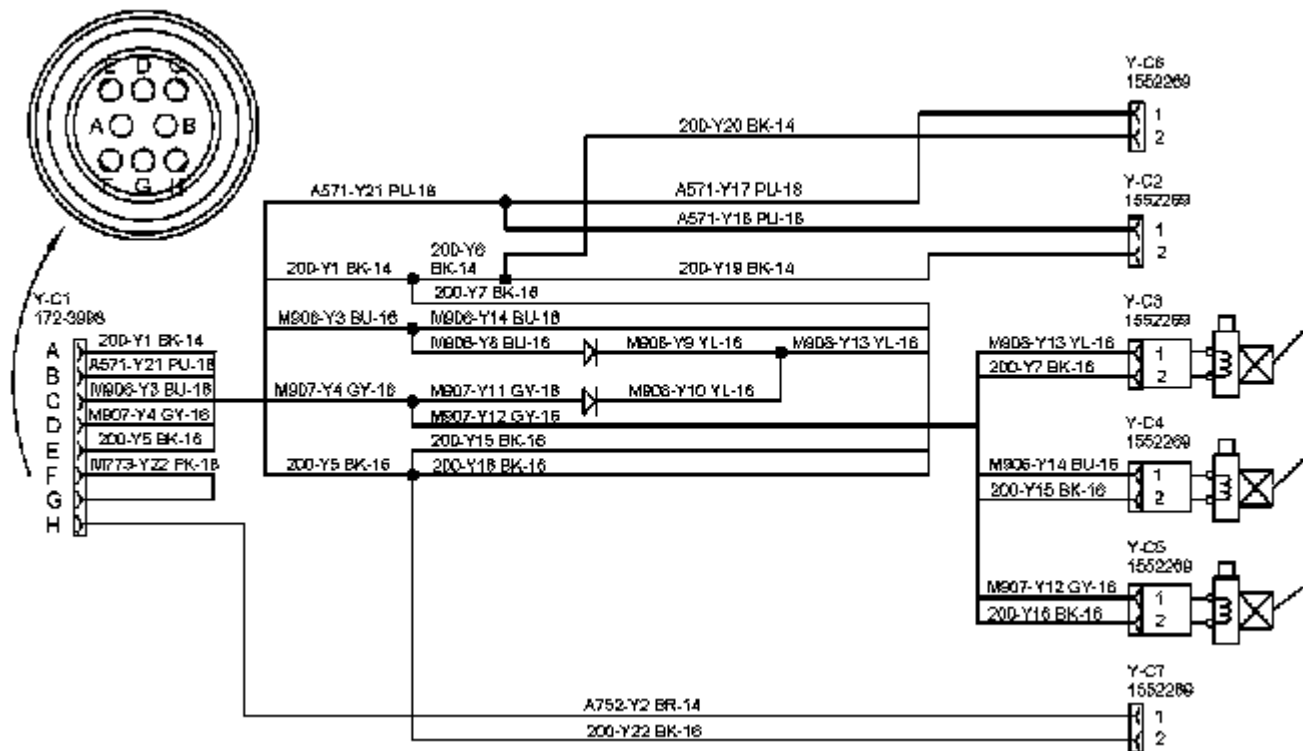


Illustration 7

g01

225-8014 Work Tool Harness As

- (1) Solenoid for the sideshift solenoid valve
- (2) Solenoid for the tilt solenoid valve
- (3) Solenoid for the depth solenoid valve

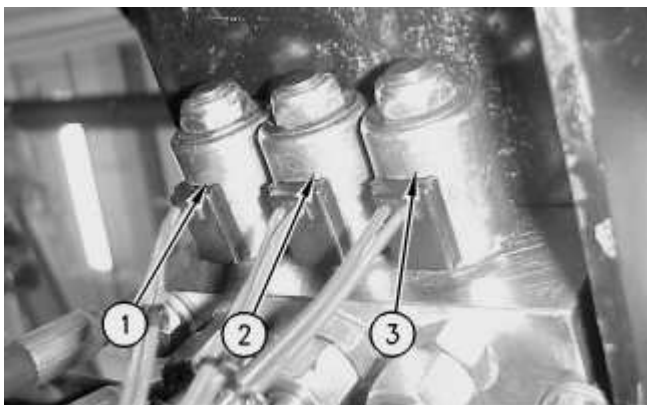


Illustration 8

g00737615

- (1) Solenoid for the sideshift solenoid valve

- (2) Solenoid for the tilt solenoid valve
- (3) Solenoid for the depth solenoid valve

1. Attach the connector of the wire harness with the yellow wire and the black wire to solenoid (1) .
2. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (2) .
3. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (3) .

**Note:** Three of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## SG16 Stump Grinder

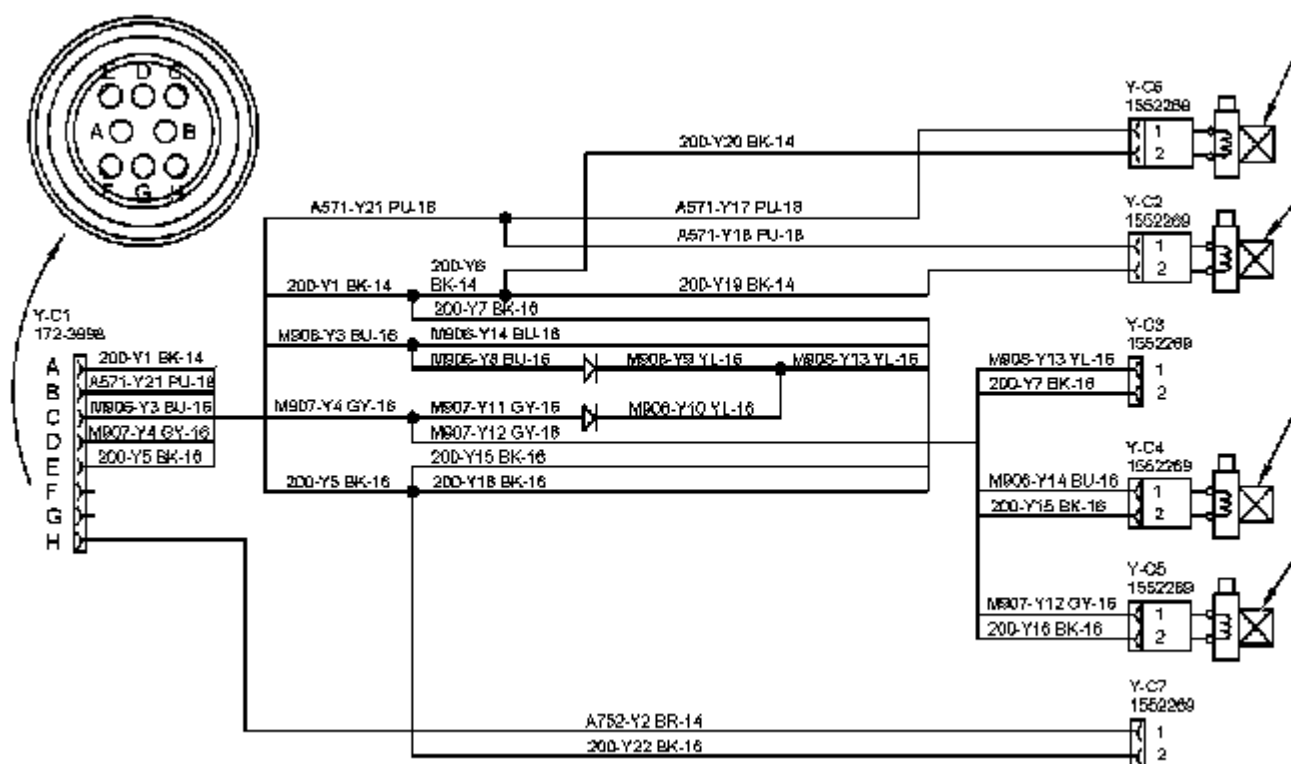


Illustration 9

g01

225-8015 Work Tool Harness As

- (1) Solenoid for the swing valve
- (2) Solenoid for extension

- (3) Solenoid for the standard flow of the diverter valve
- (4) Solenoid for the reverse flow of the diverter valve

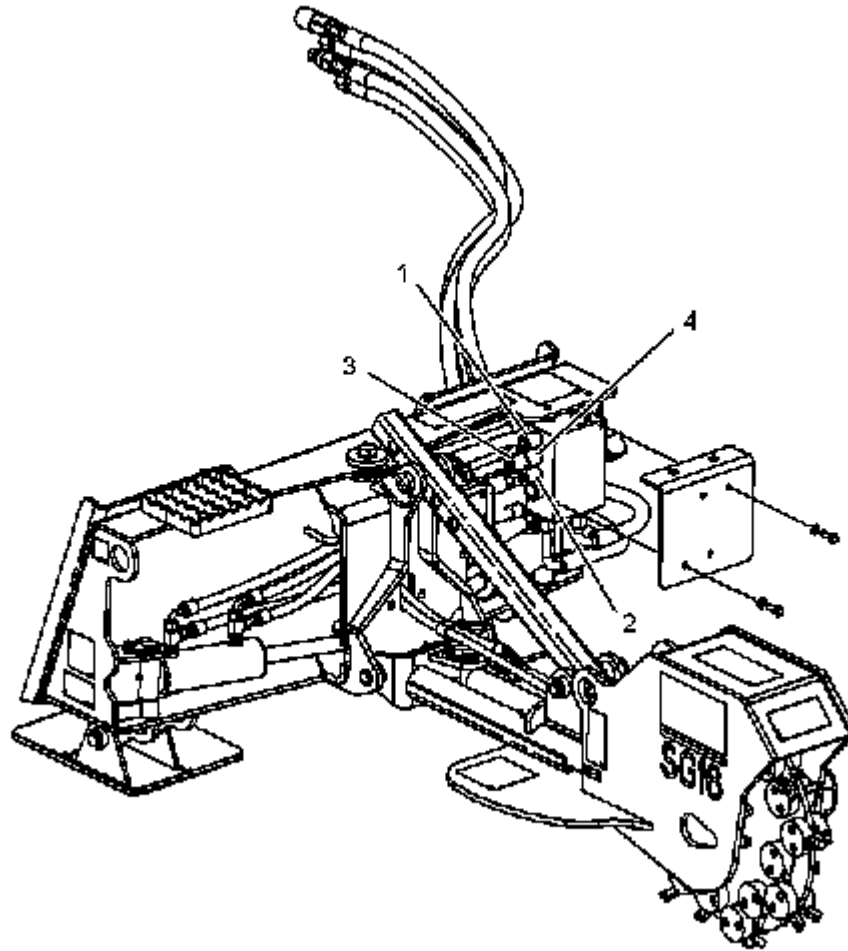


Illustration 10

g01

- (1) Solenoid for the swing valve
- (2) Solenoid for extension
- (3) Solenoid for the standard flow of the diverter valve
- (4) Solenoid for the reverse flow of the diverter valve

1. Attach the connector of the wire harness with the purple wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the purple wire and the black wire to solenoid (2) .

3. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (3) .
4. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (4) .

**Note:** Two of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## **SG16B Stump Grinder**

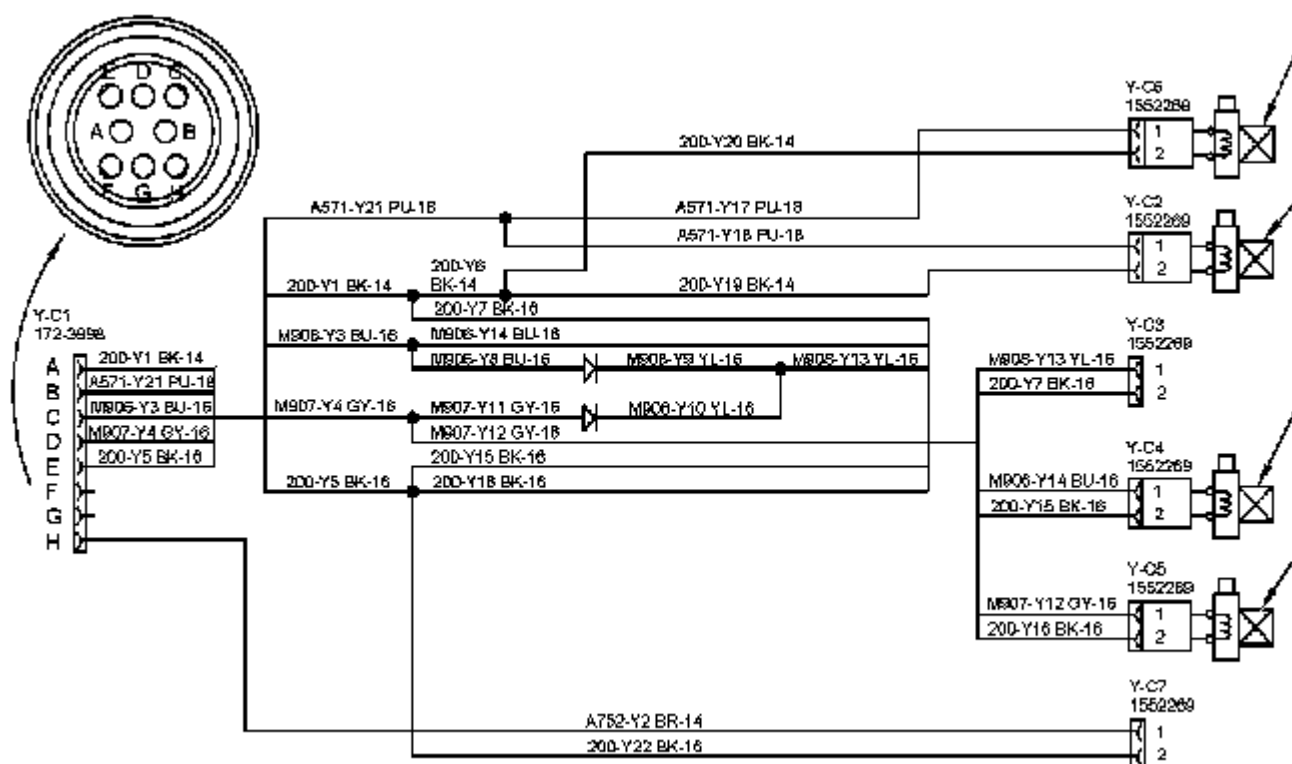


Illustration 11

g01

225-8015 Work Tool Harness As

- (1) Solenoid for the swing valve
- (2) Solenoid for the extension solenoid valve
- (3) Solenoid for the standard flow of the diverter valve
- (4) Solenoid for the reverse flow of the diverter valve

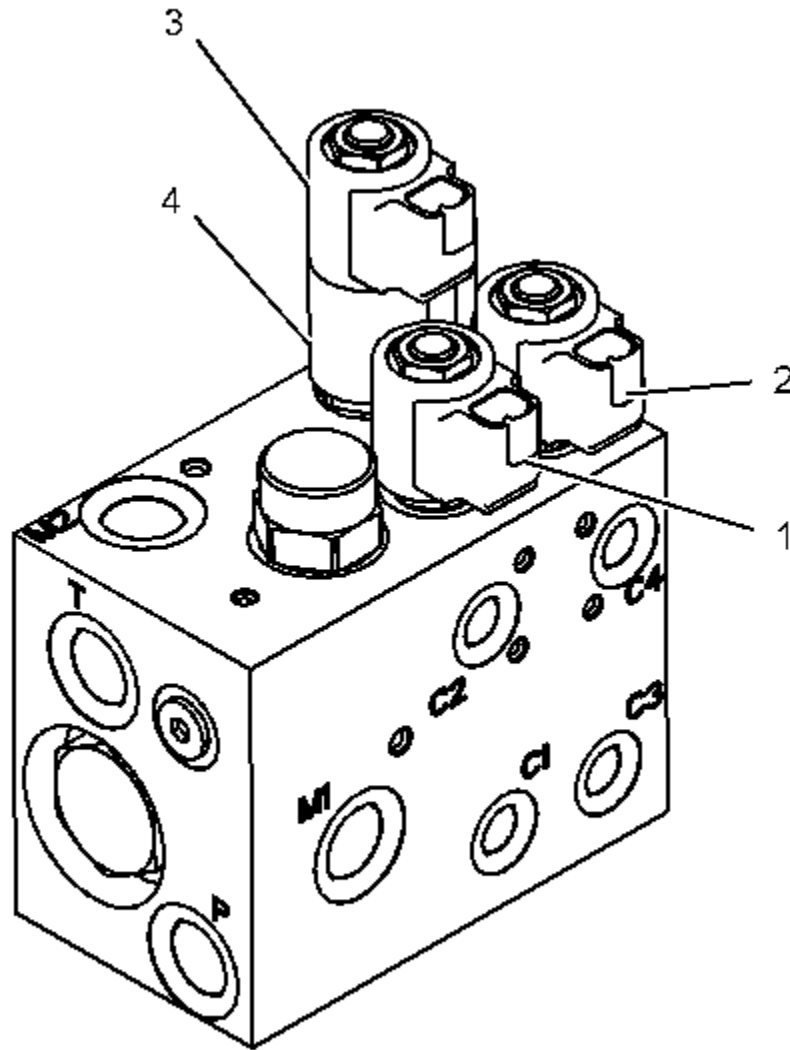


Illustration 12

g01090632

- (1) Solenoid for the swing valve
- (2) Solenoid for the extension solenoid valve
- (3) Solenoid for the standard flow of the diverter valve
- (4) Solenoid for the reverse flow of the diverter valve

1. Attach the connector of the wire harness with the purple wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the purple wire and the black wire to solenoid (2) .

3. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (3) .
4. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (4) .

**Note:** Two of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## SG18 Stump Grinder

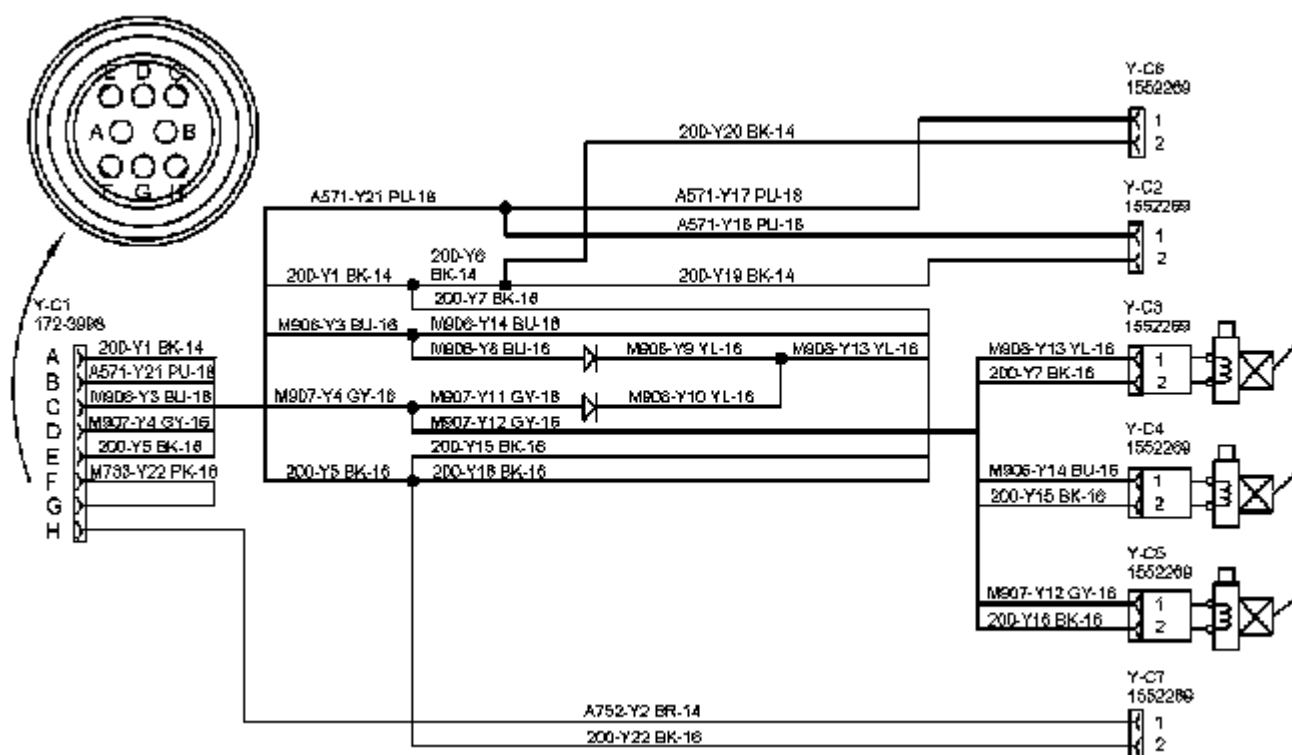


Illustration 13

g01

225-8014 Work Tool Harness As

- (1) Solenoid for the swing solenoid valve
- (2) Solenoid for the extension solenoid valve
- (3) Solenoid for the depth solenoid valve

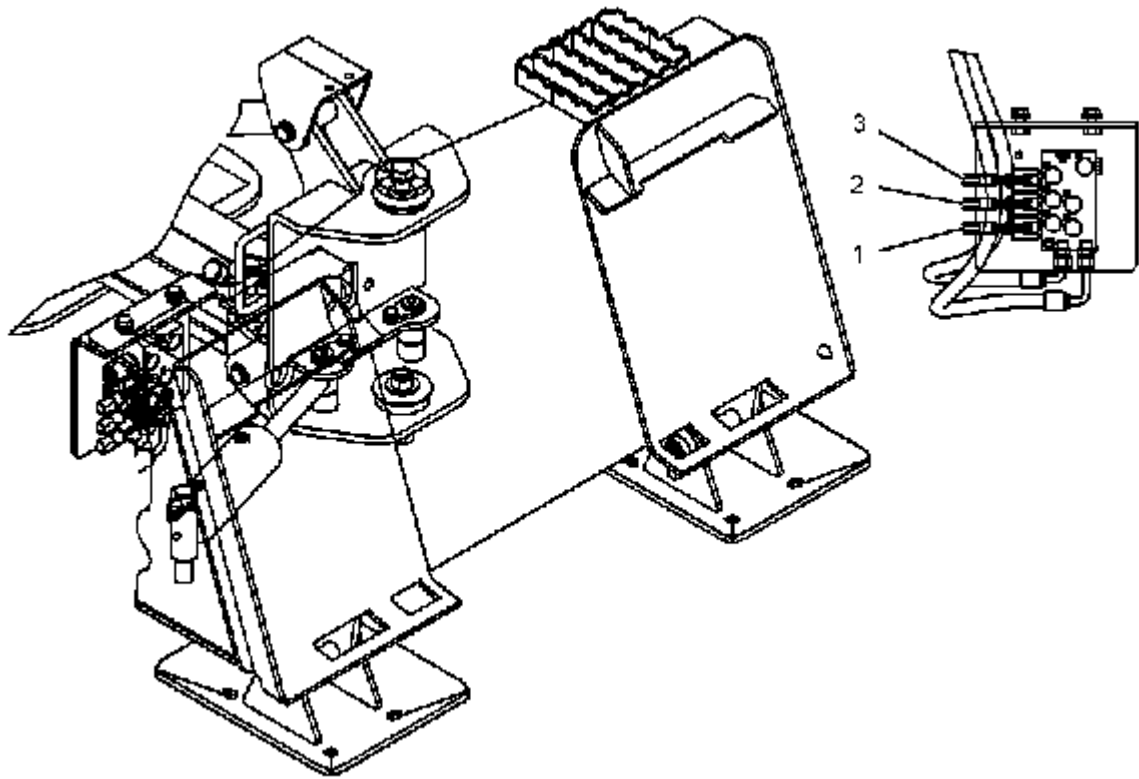


Illustration 14

g010

- (1) Solenoid for the swing solenoid valve
- (2) Solenoid for the extension solenoid valve
- (3) Solenoid for the depth solenoid valve

1. Attach the connector of the wire harness with the yellow wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the blue wire and the black wire to solenoid (2) .
3. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (3) .

**Note:** Three of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

### **SG18B Stump Grinder**

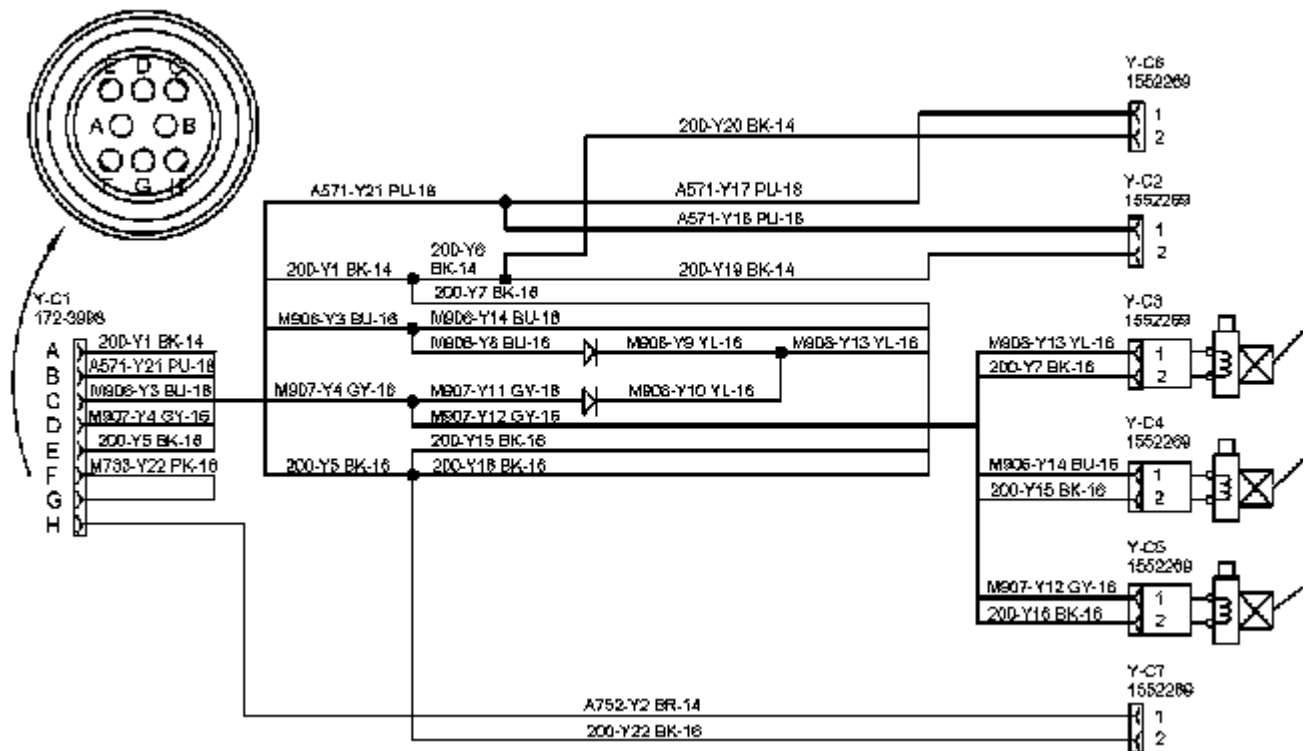


Illustration 15

g010

225-8014 Work Tool Harness As

- (1) Solenoid for the swing solenoid valve
- (2) Solenoid for the extension solenoid valve
- (3) Solenoid for the depth solenoid valve

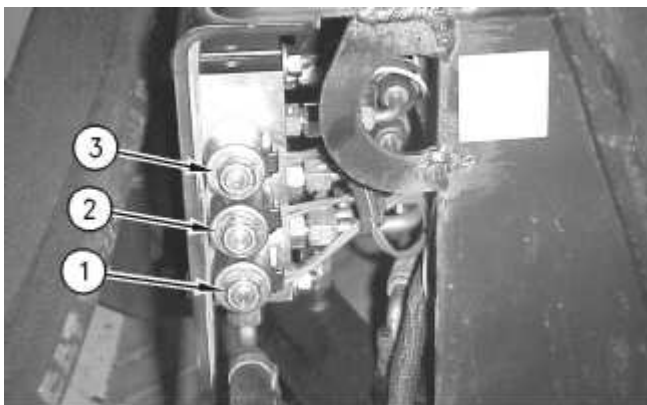


Illustration 16

g00739415

- (1) Solenoid for the swing solenoid valve



(2) Solenoid for the extension solenoid valve

(3) Solenoid for the depth solenoid valve

1. Attach the connector of the wire harness with the yellow wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the blue wire and the black wire to solenoid (2) .
3. Attach the connector of the wire harness with the gray wire and the black wire to solenoid (3) .

**Note:** Three of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## SW45 and SW60 Wheel Saw

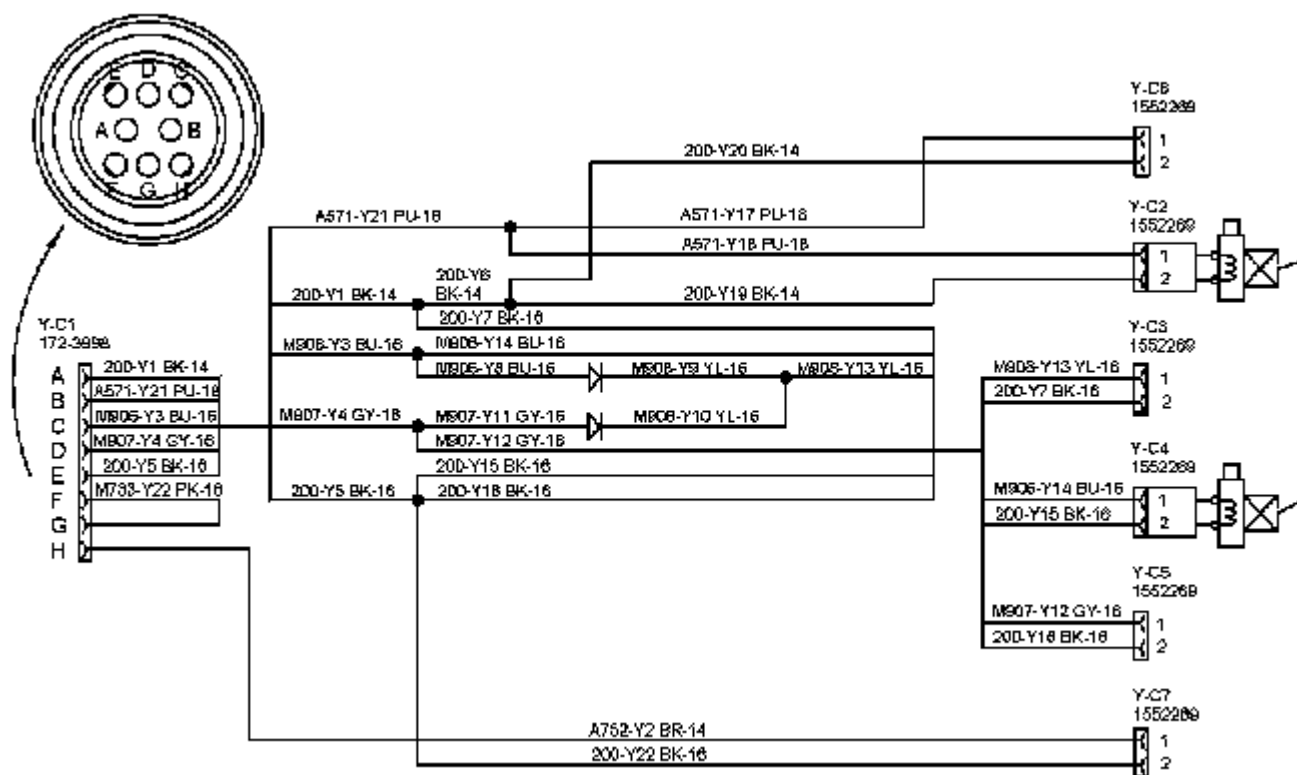


Illustration 17

g01

225-8014 Work Tool Harness As

(1) Solenoid in the diverter valve for the depth cylinders

(2) Solenoid in the diverter valve for the trench cleaner

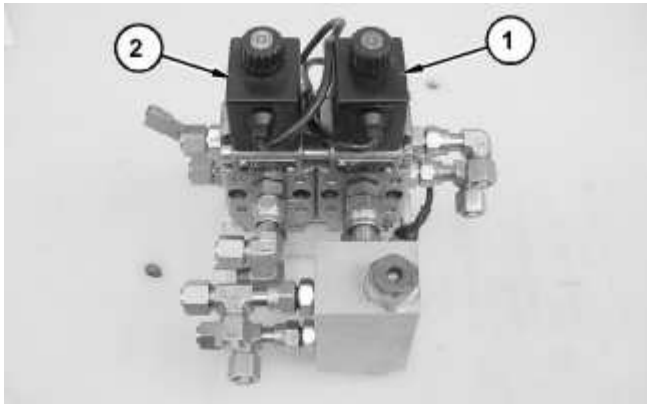


Illustration 18

g01097125

(1) Solenoid in the diverter valve for the depth cylinders

(2) Solenoid in the diverter valve for the trench cleaner

1. Attach the connector of the wire harness with the blue wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the purple wire and the black wire to solenoid (2) .

**Note:** Four of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

## **Dozer Blade**

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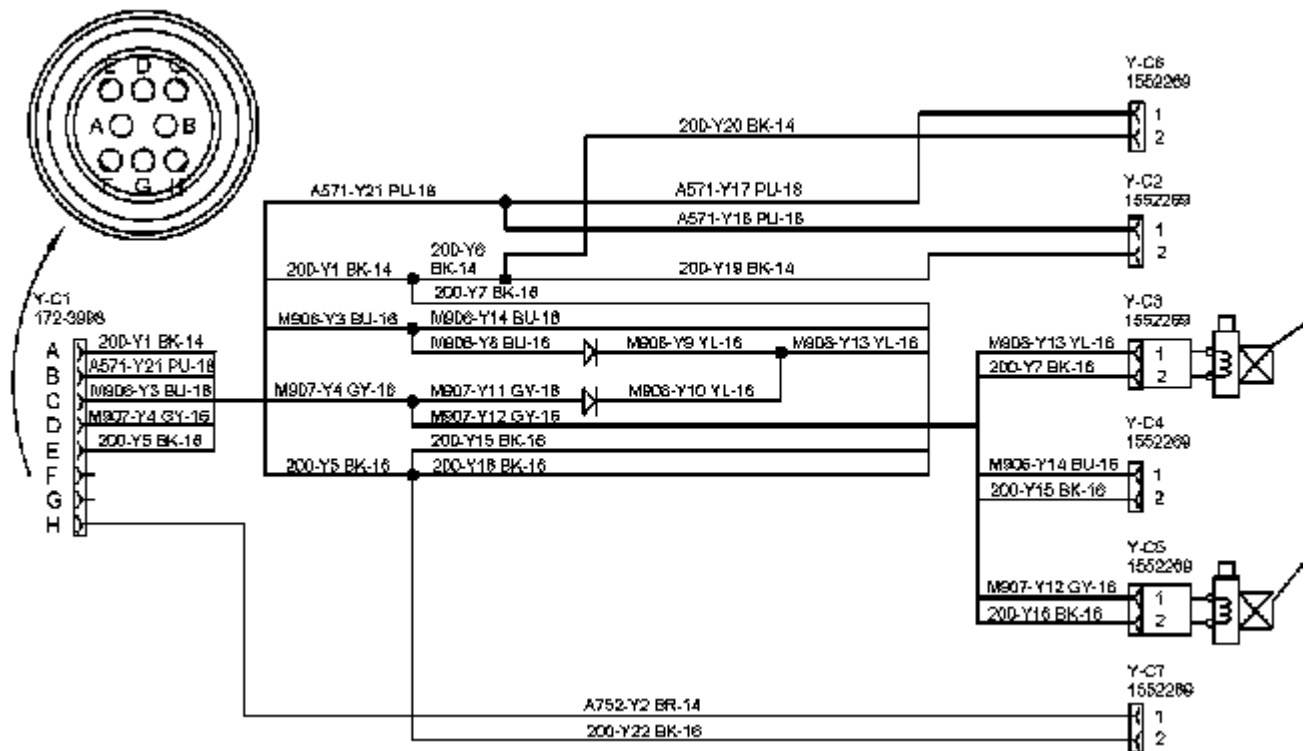
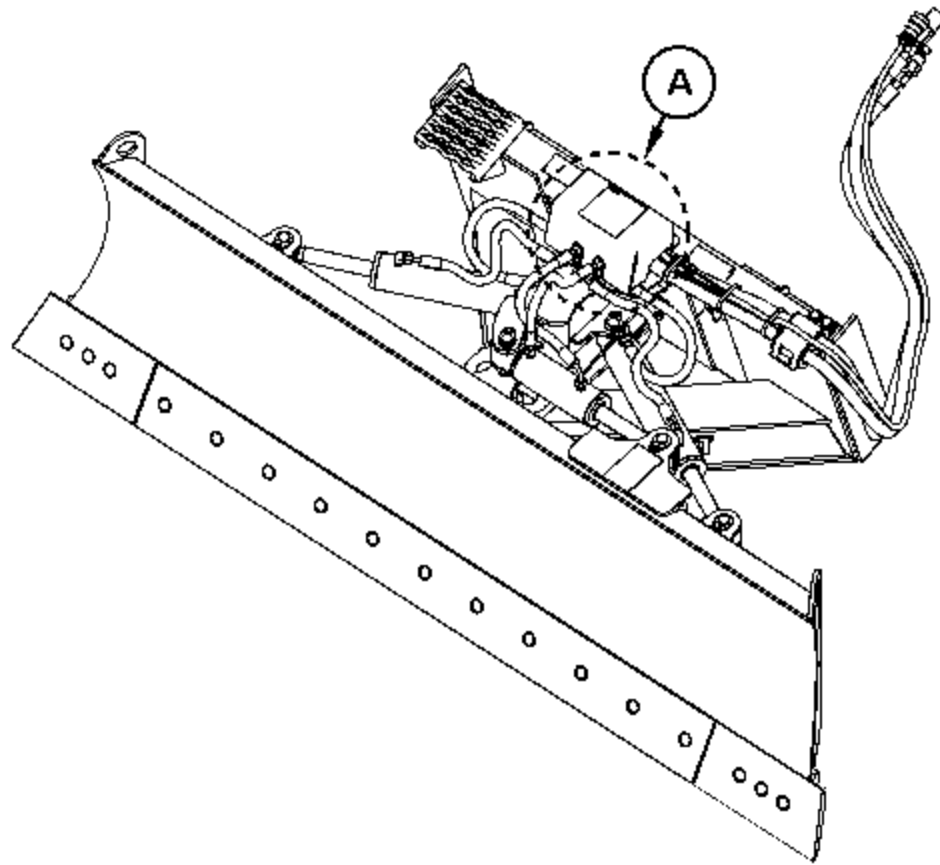


Illustration 19

g01

225-8015 Work Tool Harness As

- (1) Solenoid for the tilt function
- (2) Solenoid on diverter valve for angle



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Illustration 20

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Dozer Blade

(A) Cover for solenoids

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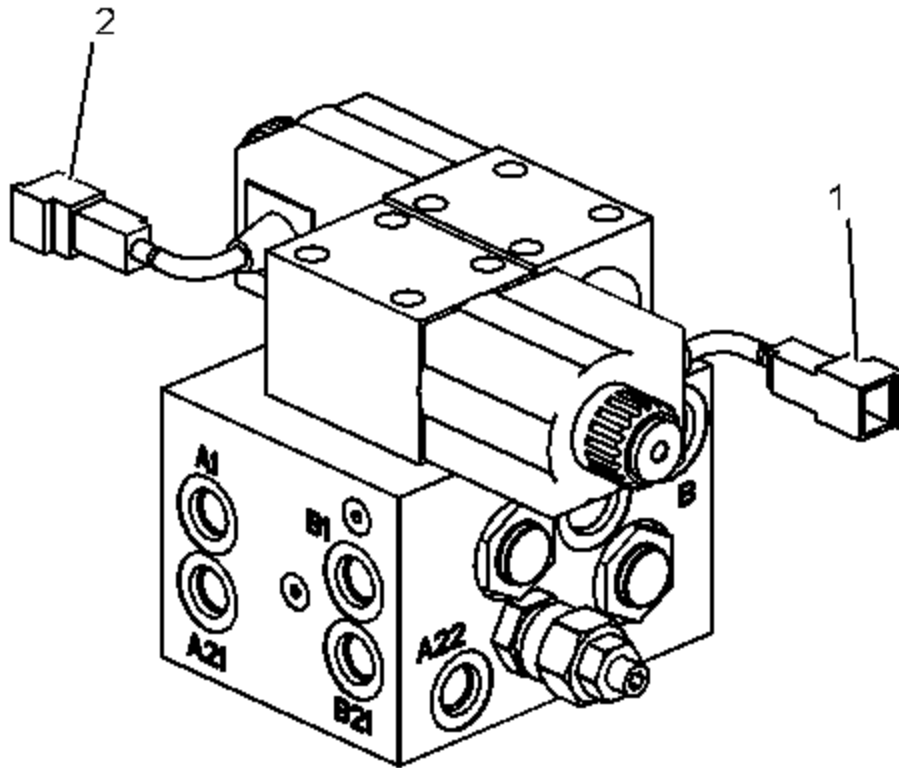


Illustration 21

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- (1) Solenoid for the tilt function
- (2) Solenoid on diverter valve for angle

1. Attach the connector of the wire harness with the yellow wire and the black wire to solenoid (1) .
2. Attach the other connector of the wire harness with the gray wire and the black wire to solenoid (2) .

**Note:** Four of the connectors of the wire harness are not used in this application.

**Note:** The **166-0294** Work Tool Harness As uses the same connections.

### **SR318 SR321 Snowblower**

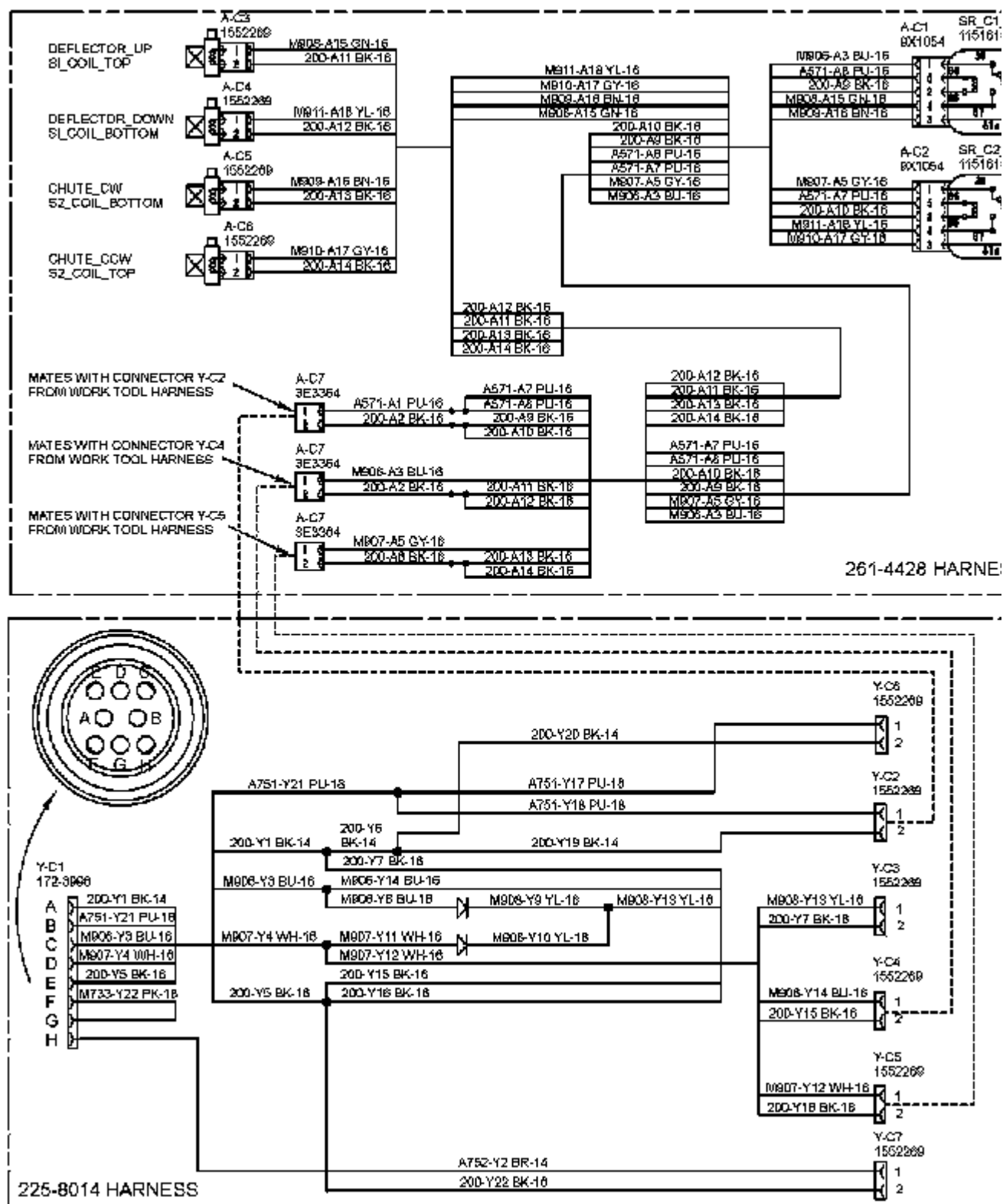


Illustration 22

g01.

Early model

261-4428 Work Tool Harness As

225-8014 Work Tool Harness As

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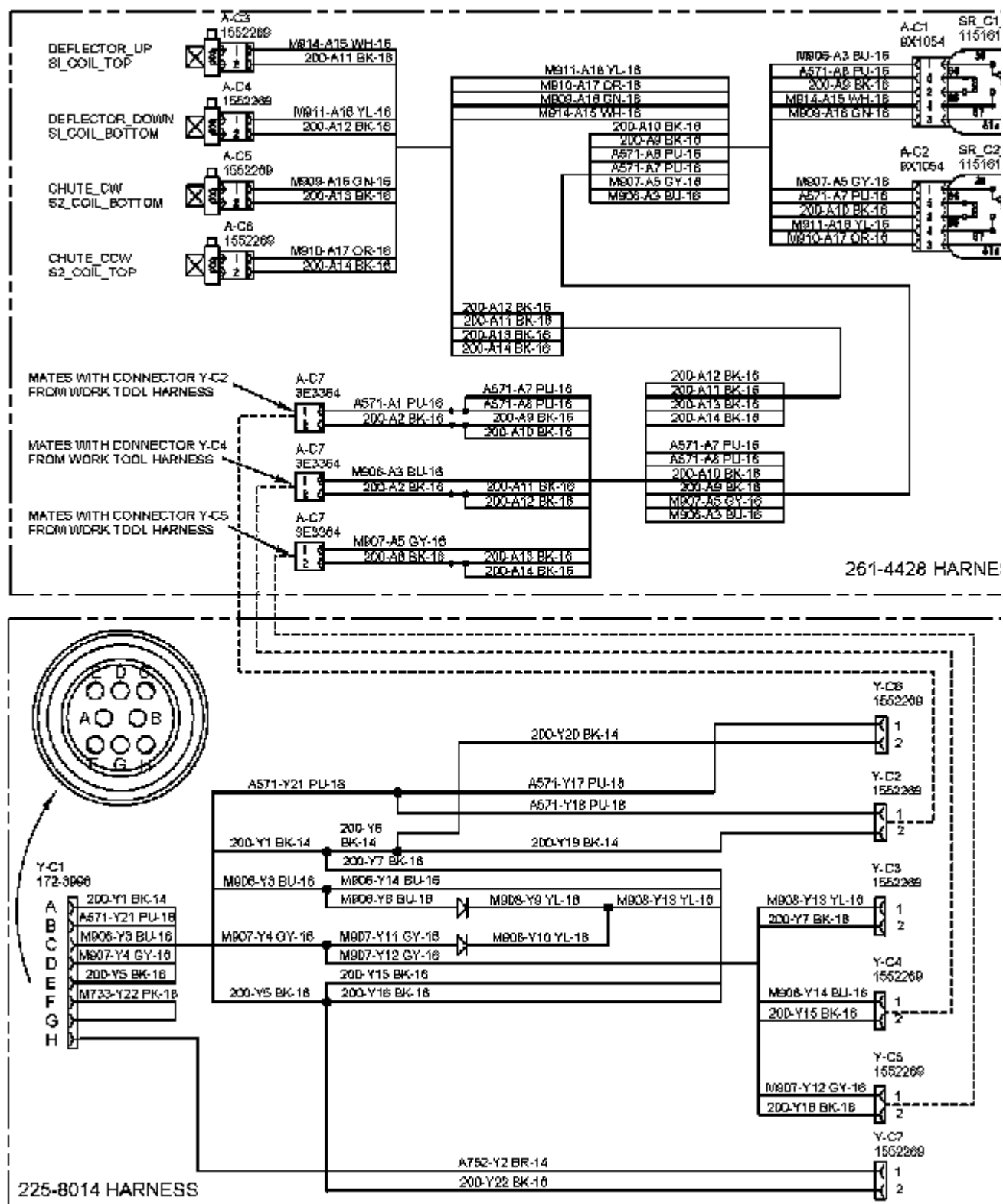


Illustration 23

g01

Current model



261-4428 Work Tool Harness As

225-8014 Work Tool Harness As

1. The **225-8014** Work Tool Harness As connects to the **261-4428** Work Tool Harness As . Refer to illustrations 23. Refer to table 2.

**Note:** Three connectors are not used on the **225-8014** Work Tool Harness As .

Table 2

Points Of Connection Between Harnesses		
225-8014 Work Tool Harness As connector		261-4428 Work Tool Harness As connector
"Y-C2" Purple and Black	connect.	"A-C7" Purple and Black
"Y-C4" Blue and Black	connect.	"A-C8" Blue and Black
"Y-C5" Gray and Black	connect.	"A-C9" Gray and Black

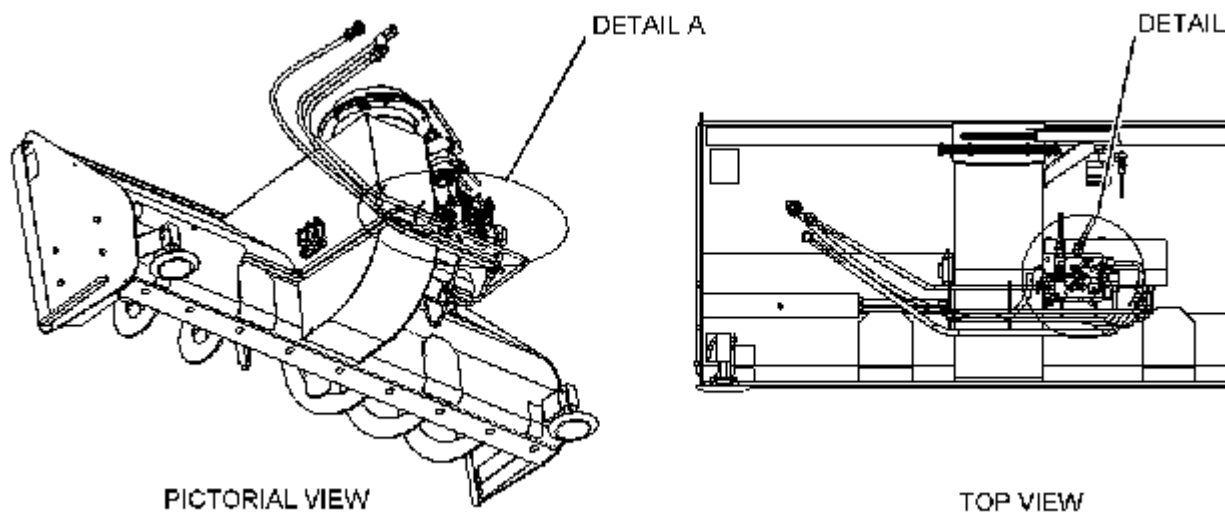
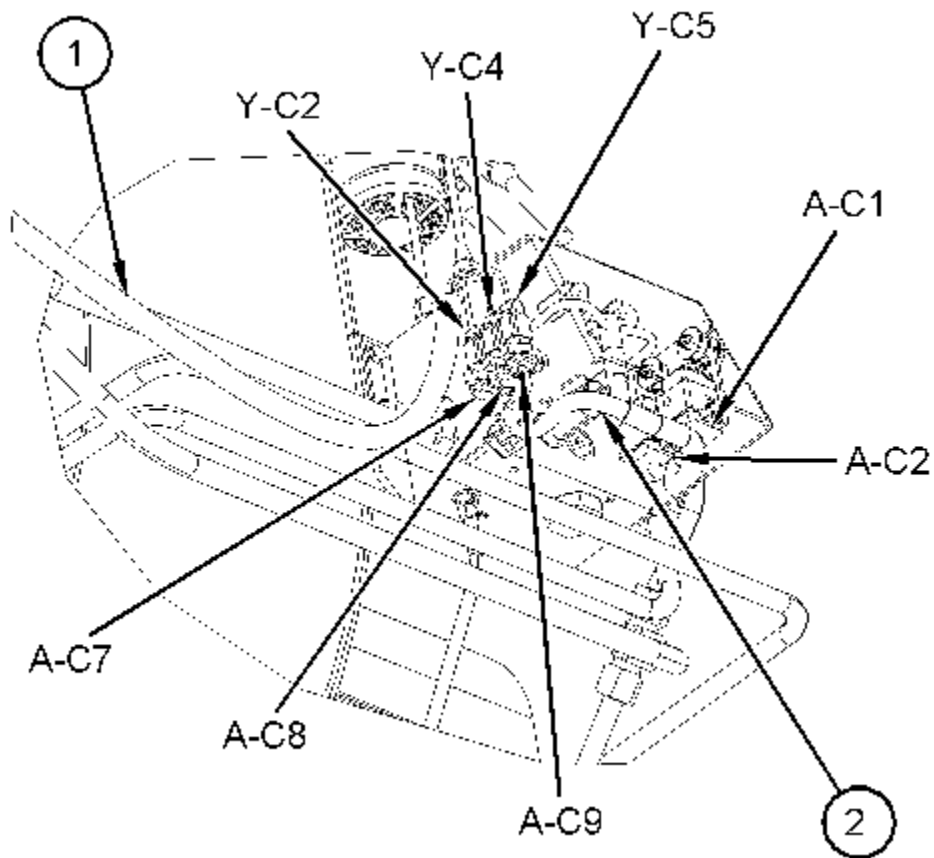


Illustration 24



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Illustration 25

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DETAIL A

(1) 225-8014 Work Tool Harness As

(2) 261-4428 Work Tool Harness As

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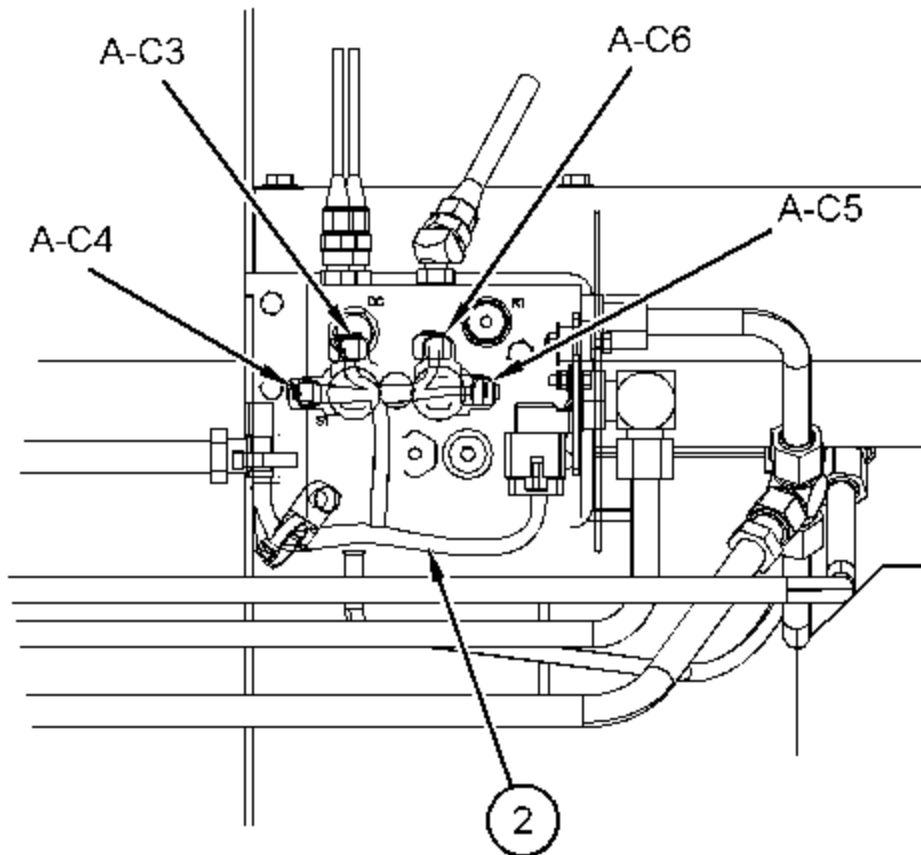


Illustration 26

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## DETAIL B

(2) 261-4428 Work Tool Harness As

2. The **261-4428** Work Tool Harness As connects to the snowblower at six locations. Refer to the following illustrations. 23, 24, 25 and 26. Refer to table 3.

Table 3

Points Of Connection Between Harness and Snowblower		
261-4428 Work Tool Harness As connector		Connector on snowblower
"A-C1" ("BU", "PU", "BK", "GN", "BR")	connect.	"Chute_Angle_1" Relay
"A-C2" ("WH", "PU", "BK", "YL", "GY")	connect.	"Angle_Up" Connector
"A-C3" ("GN", "BK")	connect.	"Angle_Down" Connector

"A-C4" ("YL", "BK")	connect.	"Chute_Left" Connector
"A-C5" ("BR", "BK")	connect.	"Chute_Right" Connector
"A-C6" ("GY", "BK")	connect.	"Chute_Left" Connector

## **SR17 SR18 SR21 Snowblower**

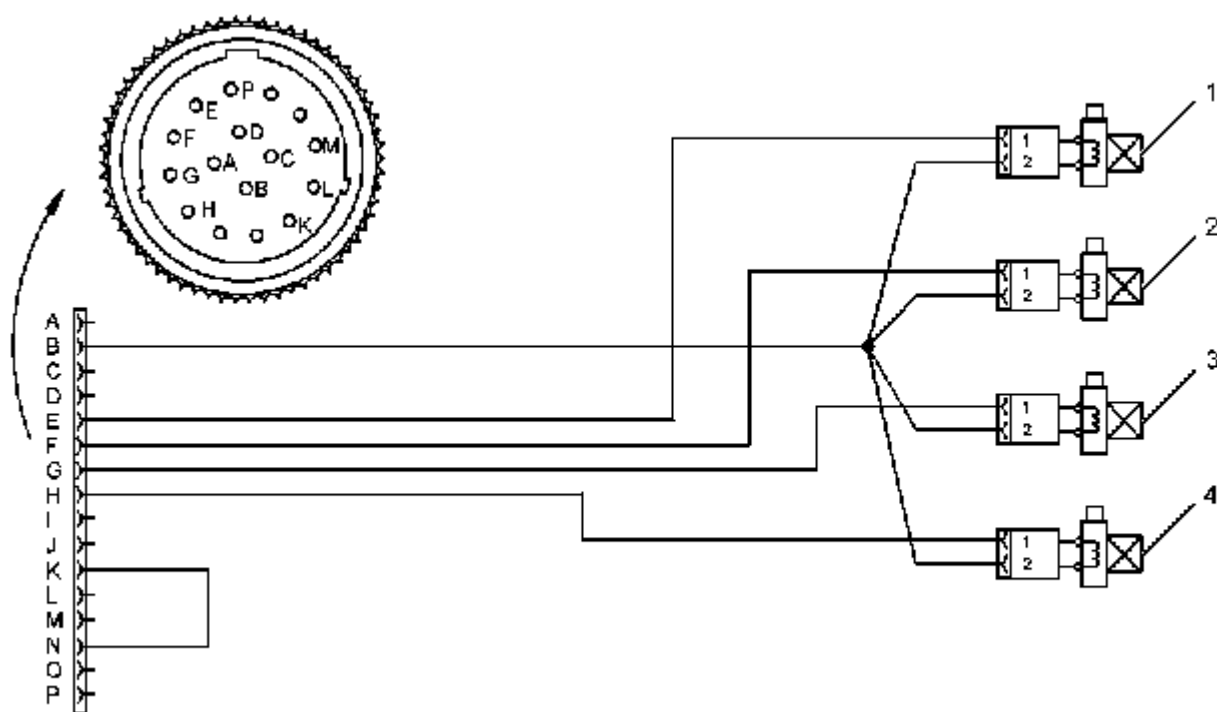


Illustration 27

g01

227-5498 Work Tool Harness As

- (1) Left bottom solenoid
- (2) Left top solenoid
- (3) Right bottom solenoid
- (4) Right top solenoid

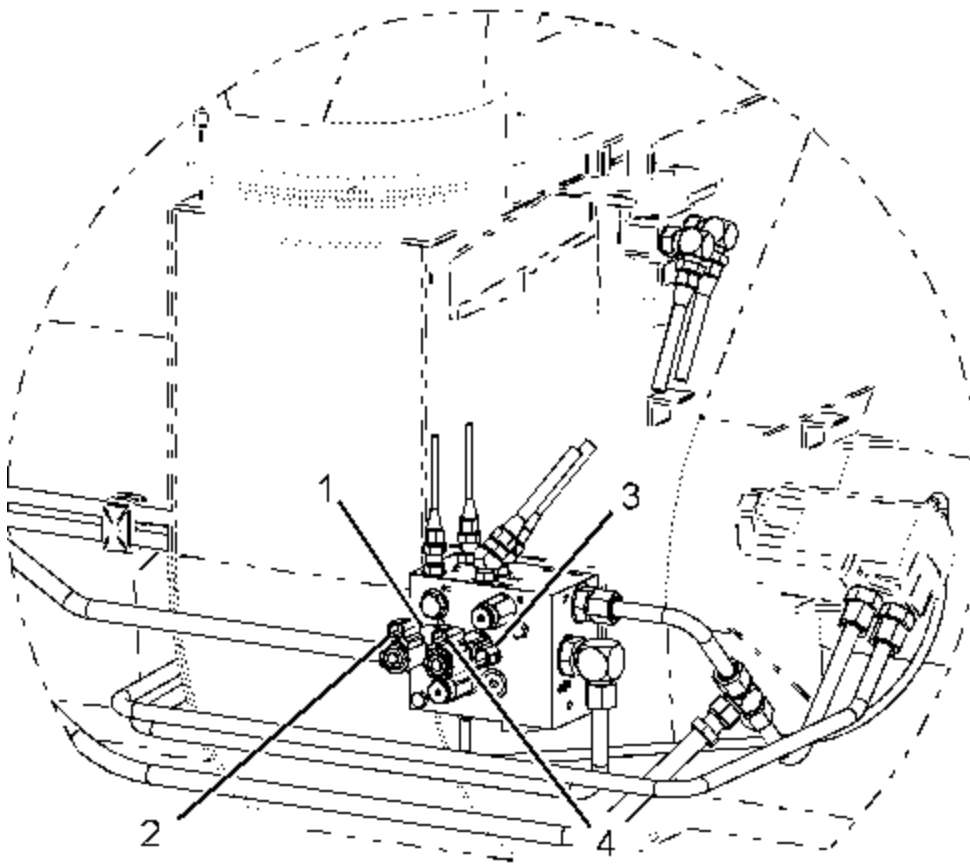


Illustration 28

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- (1) Left bottom solenoid
- (2) Left top solenoid
- (3) Right bottom solenoid
- (4) Right top solenoid

The **227-5498** Work Tool Harness As connects to the snowblower at four locations. Refer to Illustration 27 for the proper location of each wire in the **227-5498** Work Tool Harness As .