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Group 40PA - Instrument Control Cluster (ICC) (SE24)
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Group ICC - Instrument Cluster Control Unit (ICC)
Group PTR - Power Train Reverser (PTR)

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Group 10AA - Calibrations, Preliminary Checks and Operational Checks
Group 20AA - Creeper Theory of Operation
Group 20AB - Differential Theory of Operation
Group 20AC - Differential Lock Theory of Operation
Group 20AD - Final Drive Theory of Operation
Group 20BB - Rear PTO Theory of Operation
Group 20CA - High Crop Axle Theory of Operation
Group 20CB - MFWD Theory of Operation
Group 20DA - PR Transmission Theory of Operation
Group 20DB - PR Plus Transmission Theory of Operation
Group 20DC - SS Transmission Theory of Operation
Group 30AA - Drive Systems Schematics
Group 30BA - Transmission Schematics
Group 40AA - Drive Systems Component and Connector Information
Group 40BA - Transmission Component and Connector Information
Group 50AA - Drive Systems Tests and Adjustments
Group 50BA - Transmission Tests and Adjustments

CCU 003509.04- Sensor Supply Voltage Out of Range Low

11

Code caused by: CCU detects sensor supply voltage below 4.8 V.

Control unit response: Defaults to NEUTRAL

CCU 003509.04

Check and Operate	Results
1. CCU 051 — Sensor Reference Voltage Chassis Control Unit (CCU) Address List	OK: Diagnosis complete. NOT OK: GO TO 2.
2. Key switch ON.	OK: Code does not return. Diagnosis complete. NOT OK: Code returns. Perform EHC—Electrohydraulic Control Unit Sensor Power Test . NOT OK: Operator reports continued problems. Perform EHC—Electrohydraulic Control Unit Test .
Control Unit Addresses - Access Recall, Record, and Clear Codes	

HCU 521000.31- Rear Hitch External Switch Circuit Conflict

24

Code caused by: Both raise and lower switches were activated at the same time.

Control unit response: Function Degraded

HCU 521000.31

Check and Operate	Results
1. HCU 007 — Rear Hitch External Switch Hitch Control Unit (HCU) Address List	OK: GO TO 2. NOT OK: Test S21 Left External Raise/Lower Switch , and S27 Right External Raise/Lower Switch . GO TO 2.
2. Raise and lower rear hitch using both left and right external switches.	OK: Code does not return. Diagnosis complete. NOT OK: Code returns. Test S21 Left External Raise/Lower Switch , and S27 Right External Raise/Lower Switch . NOT OK: Operator reports continued problems. Perform EHC—Electrohydraulic Control Unit Test .
Control Unit Addresses - Access Recall, Record, and Clear Codes	

PTR 002825.07- Not Valid Neutral Park Command

379

Code caused by: PTR control unit detects that left hand reverser not in neutral when park is commanded.

Control unit response: Defaults to Neutral

PTR 002825.07

Check and Operate	Results
1. PTR 087 — Park Switch Polarity PTR 007 — Speed Lever Neutral, High, Low, and Park Switch Status Power Train Reverser (PTR) Address List	OK: GO TO 2. NOT OK: Test S14 Forward Neutral Reverse (FNR) Switch .
2. Vehicle in Park. Key switch ON.	OK: Code does not return. Diagnosis complete. NOT OK: Code returns. Test S14 Forward Neutral Reverse (FNR) Switch . NOT OK: Operator reports continued problems. Perform EHC—Electrohydraulic Control Unit Test .
Control Unit Addresses - Access Recall, Record, and Clear Codes	

Rear Differential Lock System Diagnosis

376

Information for diagnosing rear differential lock system problems.

→NOTE:

Procedure provides a complete hydraulic checkout of rear differential lock system. Procedure should be used when other transmission and hydraulic functions on tractor operate normally and a problem exists in rear differential lock only.

→NOTE:

Code diagnosis may resolve problems and must be performed first. Consult with customer for resolution of unrelated codes.

System Diagnosis

Always start with the first step and follow the sequence exactly as directed. Concentrate only on the check you are performing and disregard signals from unrelated components. Complete all checks before making repairs, unless instructed otherwise.

(1) Preliminary Checks

Action:

Perform [Transmission - Preliminary Checks](#).

Result:

YES:GO TO 2.

NO:Correct any obvious abnormal conditions and continue testing.GO TO 2.

(2) Operational Checks

Action:

Perform following as needed:

- [PR Transmission - Operational Checks](#).
- [SS Transmission - Operational Checks](#).

→NOTE:

Perform Recall, Record, and Clear Codes after completing operational checks.

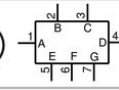
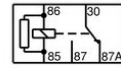
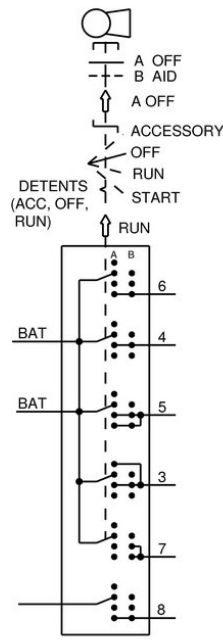
Look for new codes that were not present before performing checks. If any electrical (circuit) faults are now present that are related to this system, resolve those problems first. For system related codes (high or low pressures, temperatures or filter conditions), continue system diagnosis. All other codes can be reviewed later.

Result:

YES:No codes or problems exist. Diagnosis complete.

NO:Steering or other transmission problem exists. Perform relevant transmission system diagnosis: [SyncShuttle Transmission System Diagnosis](#). [PowrReverser Transmission System Diagnosis](#).

Electrical Schematic Symbols

① 	①⑨ 	③⑦ 	⑤③ 
② 	②① 	③⑧ 	⑤④ 
③ 	②② 	③⑨ 	⑤⑤ 
④ 	②③ 	④① 	⑤⑥ 
⑤ 	②④ 	④② 	⑤⑦ 
⑥ 	②⑤ 	④③ 	⑤⑧ 
⑦ 	②⑥ 	④④ 	⑤⑨ 
⑧ 	②⑦ 	④⑤ 	⑥① 
⑨ 	②⑧ 	④⑥ 	⑥② 
⑩ 	②⑨ 	④⑦ 	⑥③ 
⑪ 	③① 	④⑧ 	
⑫ 	③② 	④⑨ 	
⑬ 	③③ 	⑤① 	
⑭ 	③④ 	⑤② 	
⑮ 	③⑤ 		
⑯ 	③⑥ 		
⑰ 			
⑱ 			

Electrical Schematic Symbols

LEGEND:

- 1 Chassis Ground
- 2 Single Point Ground
- 3 Case Ground

S01	S01 Key Switch
S03	S03 Neutral Start Switch
V01	V01 Diode Module (SS Transmission)
W015	W015 Key/Light Switch Harness
W509	W509 Cab Chassis Harness (SS Transmission)
W577	W577 SS Transmission Harness
W906	W906 Front Console Harness (SS Transmission)
X14	X14 Engine Harness to Cab/OOS Chassis Harness Connector
X16	X16 Cab Power Cable to Cab Chassis Harness Junction Block
X134	X134 Cab/OOS Chassis Harness to Transmission Harness Connector
X141	X141 Cab Chassis Harness to Front Console Harness Connector
X142	X142 Cab Chassis Harness to Front Console Harness Connector
X201	X201 Front Console/OOS Chassis Harness to Key/Light Switch Harness Connector
XGND3	XGND3 Vehicle Chassis Ground

See the following for fuse and relay information:

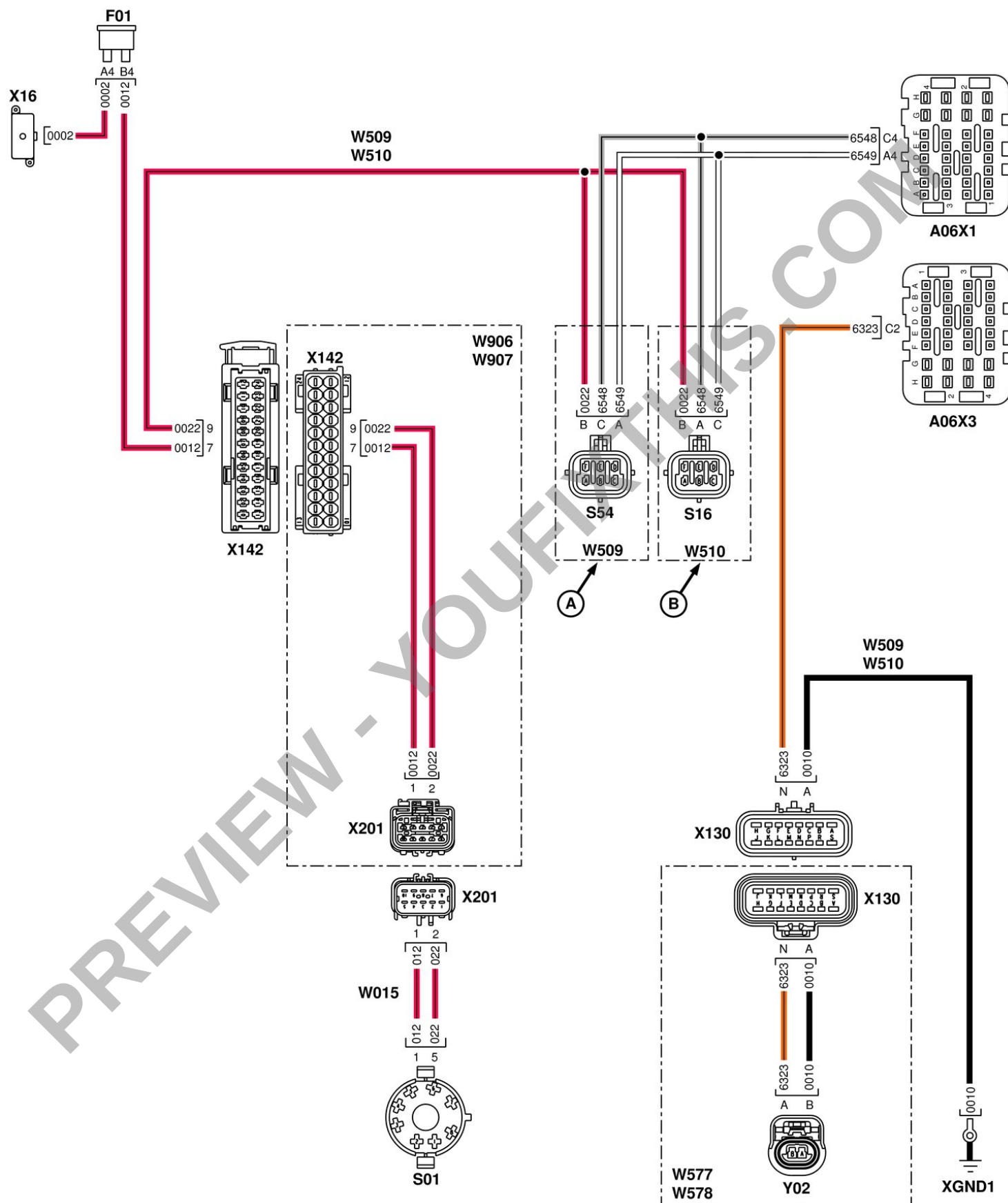
- [Load Center Fuses and Relays](#)

W015	W015 Key/Light Switch Harness
W311	W311 OOS Chassis Harness (PR Transmission)
W312	W312 OOS Chassis Harness (Low Profile, PR Transmission)
W578	W578 PR Transmission Harness
X09	X09 Engine Power Cable to Cab Power Cable/OOS Chassis Harness Junction Block
X132	X132 Cab/OOS Chassis Harness to Transmission Harness Connector
X201	X201 Front Console/OOS Chassis Harness to Key/Light Switch Harness Connector
XGND1	XGND1 Single Point Ground

See the following for fuse and relay information:

- [Load Center Fuses and Relays](#)

- A Tractors Equipped with SS Transmission Only
 B Tractors Equipped with PR Transmission Only
 S16 S16 MFWD Switch
 S54 S54 MFWD Switch



Mechanical Front-Wheel Drive (MFWD) Circuit Diagram--Cab

LEGEND:

- A Tractors Equipped with SS Transmission Only

[S12 HI/LO Beam Flash-to-Pass Switch](#)

[V01 Diode Module \(Lighting\)](#)

40DB - Turn and Brake Lights (SE05B)

[H02 Right Tail/Brake/Turn Light](#)

[H03 Left Tail/Brake/Turn Light](#)

[H08 Left Brake Light](#)

[H09 Right Brake Light](#)

[H14 Right Tail/Turn/Warning Light](#)

[H15 Left Tail/Turn/Warning Light](#)

40DC - Cab Work Lighting (SE05C)

[E03 Left Front Work Light](#)

[E04 Right Front Work Light](#)

[E05 Left Rear Work Light](#)

[E06 Right Rear Work Light](#)

[E07 Left Front Work Light](#)

[E08 Right Front Work Light](#)

[E09 Right Rear Work Light](#)

[E10 Left Rear Work Light](#)

40DD - Open Operator Station Work Lighting (SE05D)

[E11 Left Rear Work Light](#)

[E12 Right Rear Work Light](#)

[E13 Right Front Work Light](#)

[E14 Left Front Work Light](#)

40DE - Warning Lights (SE06)

[H04 Right Front Warning Light](#)

[H05 Left Front Warning Light](#)

[H10 Right Rear Warning Light](#)

[H11 Left Rear Warning Light](#)

40FA - Junction Block Power (SE09)

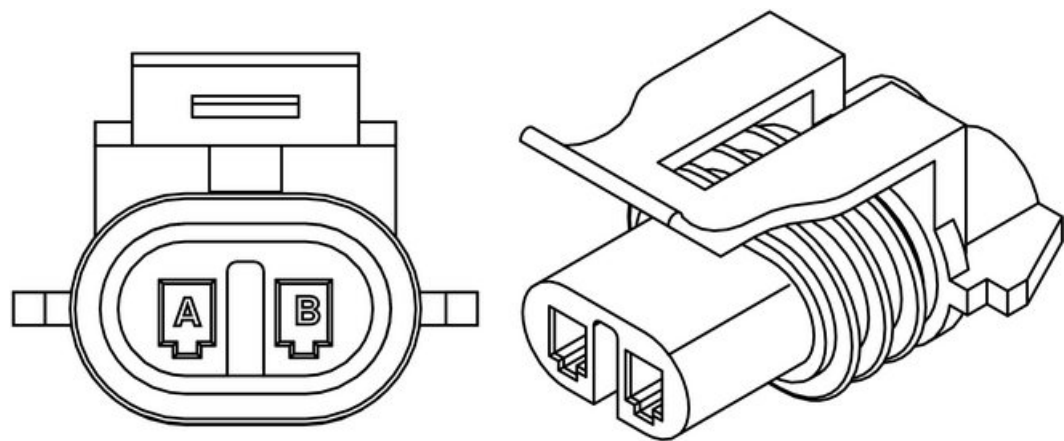
[X02 Junction Block](#)

40GA - Implement Connector (SE10)

[X01 Implement Connector](#)

40HA - Loader Lights (SE12)

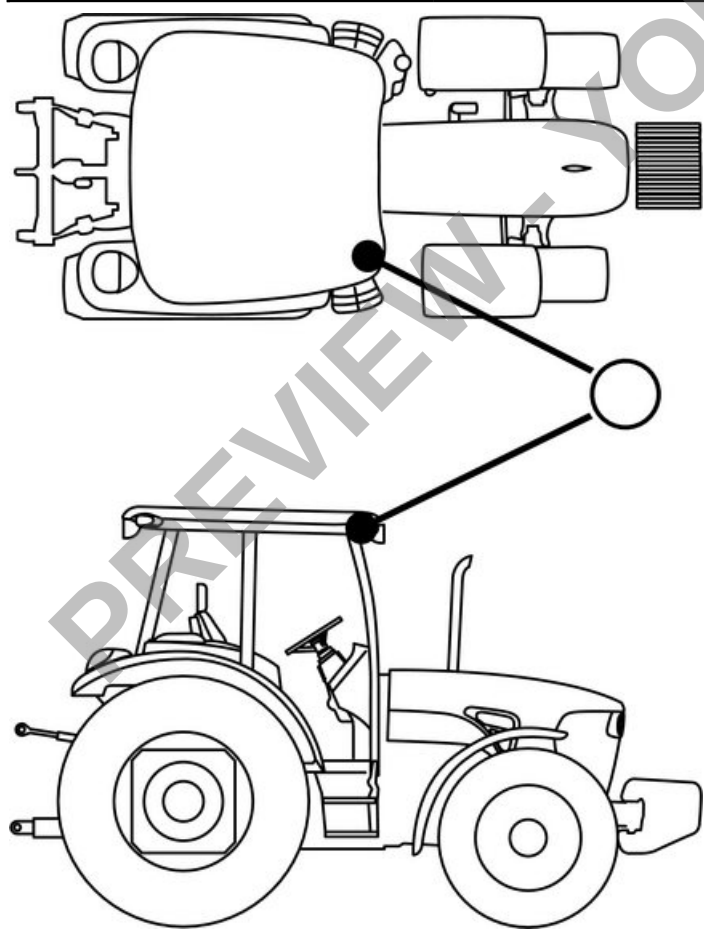
E04 Right Front Work Light



E04 Connector - 12052641

E04 Layout

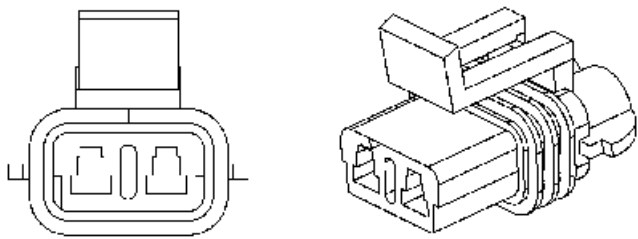
E04—Right Front Work Light			
Schematic Section:	Cab Work Lighting Schematic and Circuit Diagram (SE05C)		
Wiring Harnesses:	W925 Roof Harness W926 Deluxe Roof Harness		
Component Test:	Light Test		
Terminal	Circuit Number	Wire Color	Circuit Function
A	1167	Purple	12 V Input
B	0010	Black	Ground



E04 Location Overview

Group 40LA - Heating (SE16)

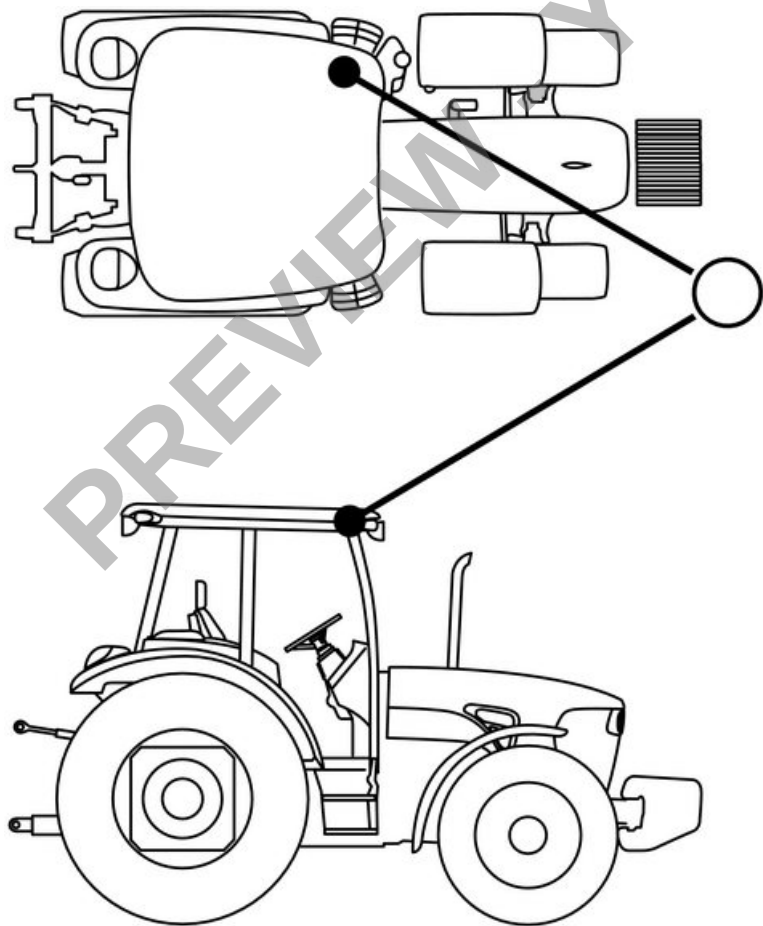
M02 Left Blower Motor

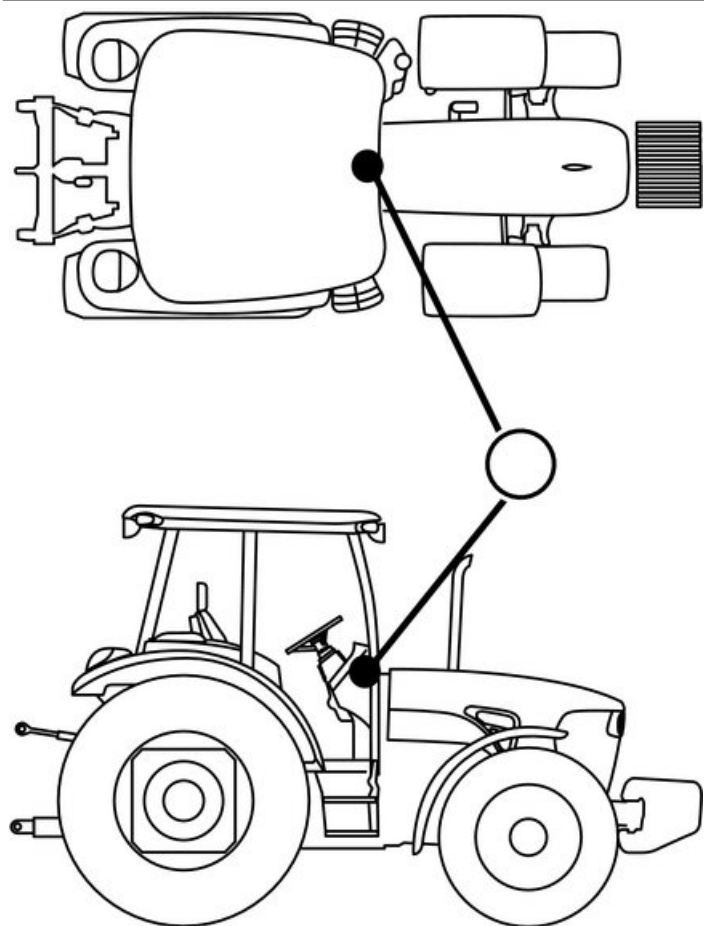
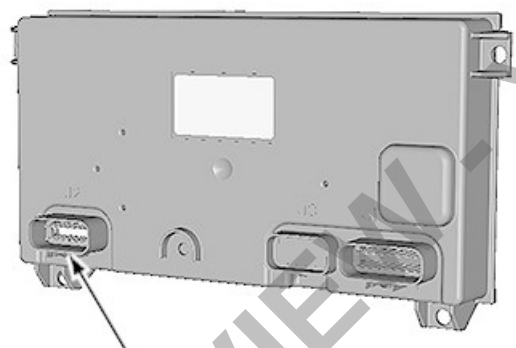


M02 Connector - 15300027

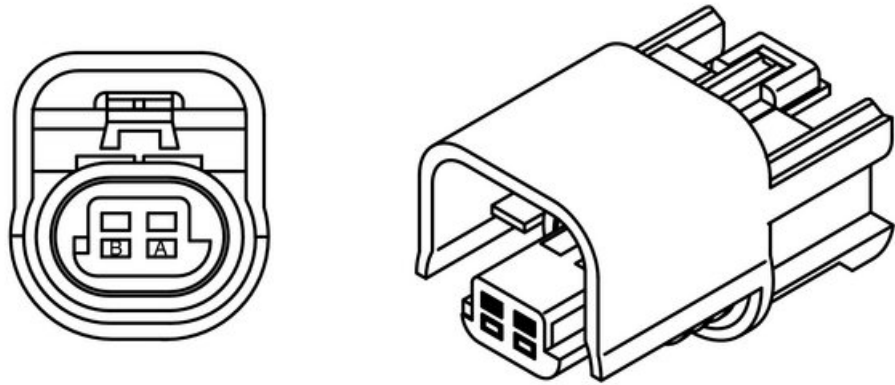
M02 Layout

M02—Left HVAC Blower Motor			
Schematic Section:	Heating Schematic and Circuit Diagram (SE16)		
Wiring Harnesses:	W925 Roof Harness W926 Deluxe Roof Harness		
Component Test:	Motor Test		
Terminal	Circuit Number	Wire Color	Circuit Function
A	2213	Orange	12 V Input
B	0010	Black	Ground



**A01X2 Location Overview****A01X2 Location**

B11 Hydraulic Oil Temperature Sensor (PR Transmission)

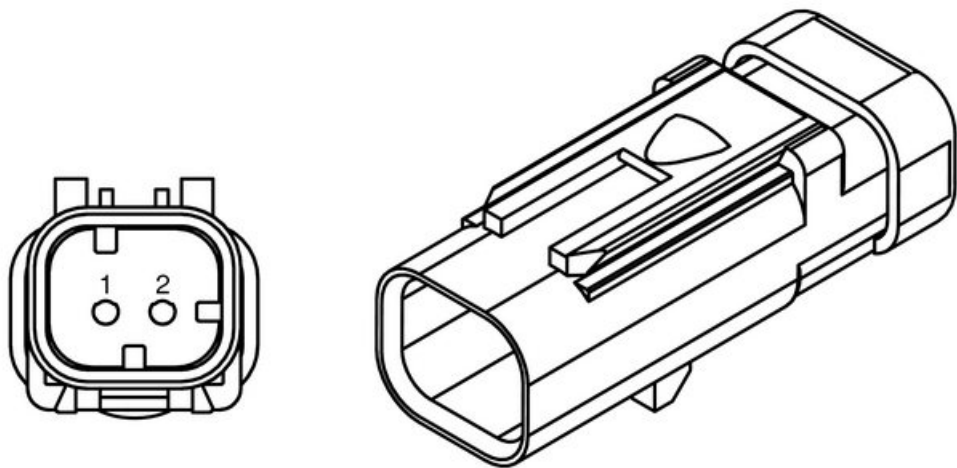


B11 Connector - 15490464

B11 Layout

B11—Hydraulic Oil Temperature Sensor (PR Transmission)			
Schematic Section:	Electrohydraulic Control Unit (EHC) Schematic and Circuit Diagram (SE29B)		
Wiring Harnesses:	W578 PR Transmission Harness		
Component Test:	Sensor Test		
Terminal	Circuit Number	Wire Color	Circuit Function
A	6316	Blue	5 V Input
B	6801	Brown	5 V Output

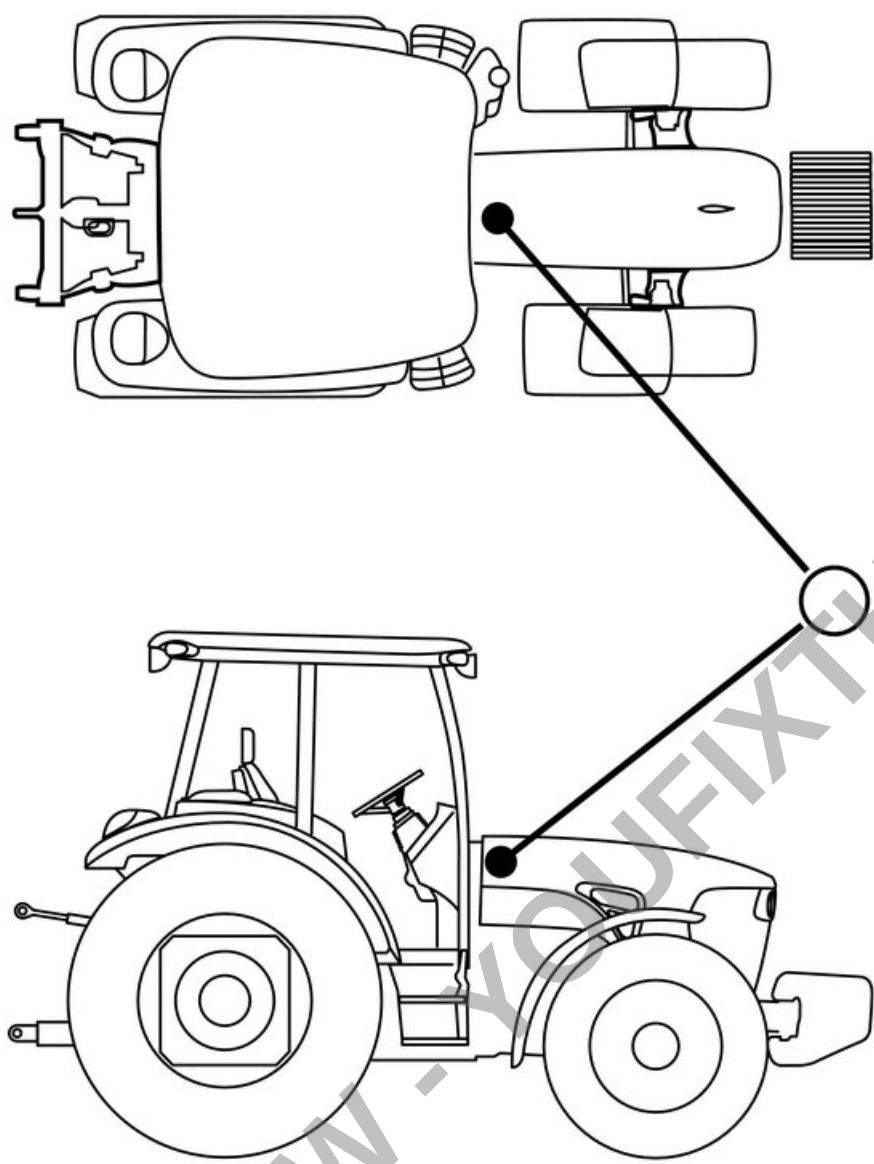
E5601 DEF Pressure Line Heater



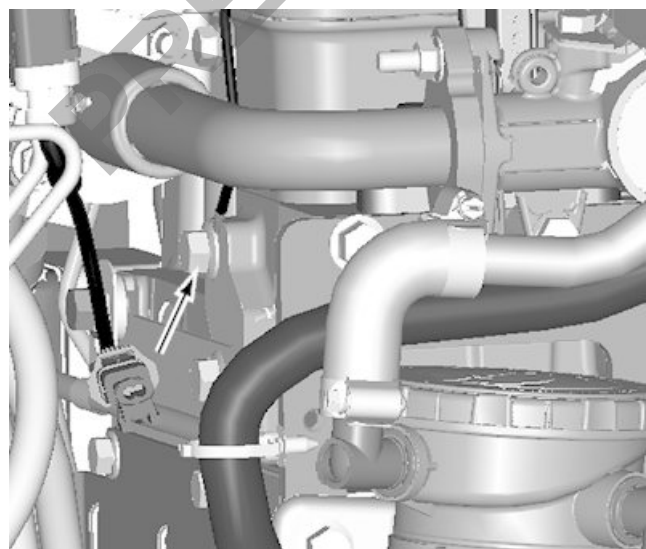
E5601 - 776534-2 (Gray Connector)

E5601 Layout

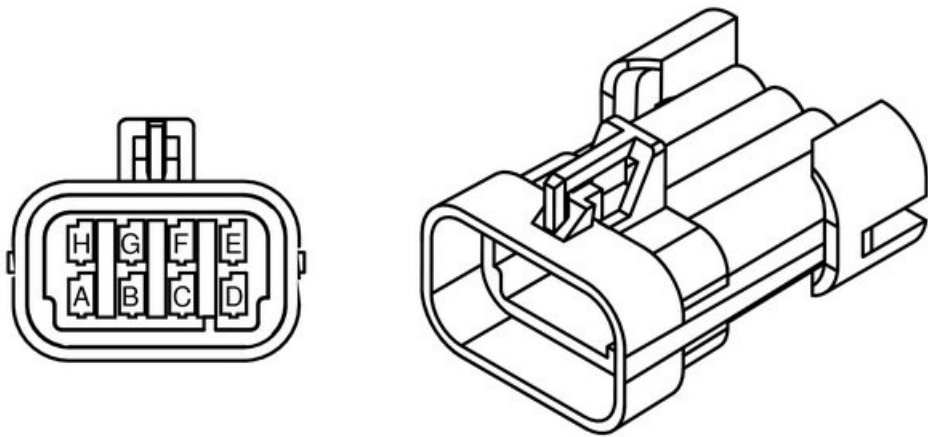
E5601 DEF Pressure Line Heater			
Schematic Section:	Engine Control Unit (ECU) Schematic and Circuit Diagram (SE30)		
Wiring Harnesses:	W027 DEF Harness		
Component Test:	Connector Test		
Terminal	Circuit Number	Wire Color	Circuit Function
1	5311	Brown	Input Signal
2	5313	Orange	Output Signal



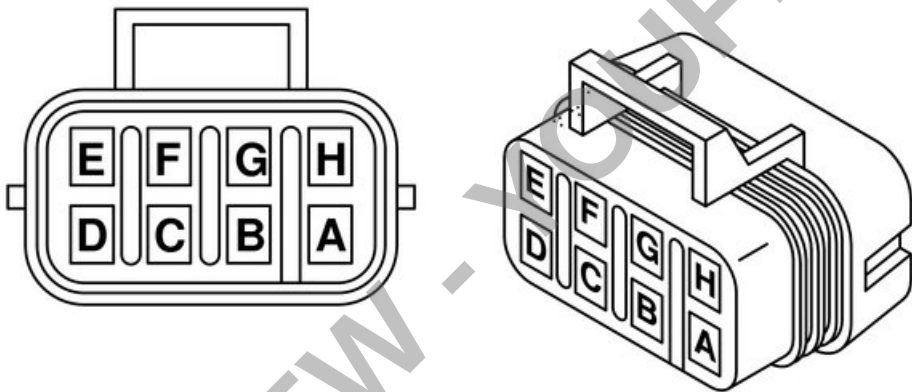
X5001 Location Overview



X252 Cab Chassis Harness to Position Receiver Harness Connector



X252 - Connector 57M7264

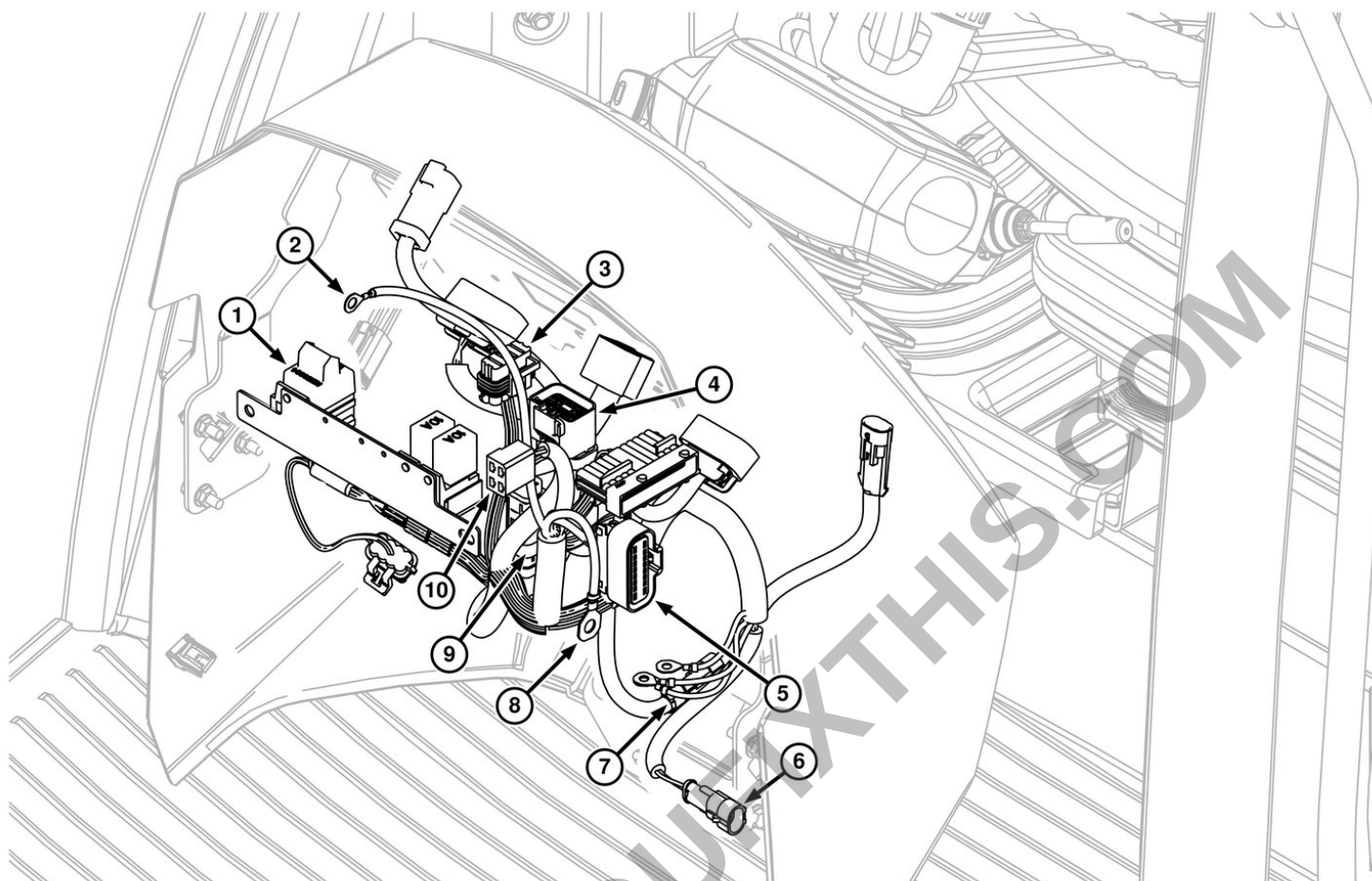


X252 - Connector

X252 Layout

X252—Cab Chassis Harness to Position Receiver Harness Connector		
Wiring Harnesses:	W032 Position Receiver Harness W509 Cab Chassis Harness (SS Transmission) W510 Cab Chassis Harness (PR Transmission)	
Terminal	Circuit Number	Wire Color
A	9904	Yellow
B	—	—
C	4922	Red
D	0050	Black
E	9905	Green
F	—	—
G	—	—

W906 Front Console Harness (SS Transmission)



Front Console Harness (SS Transmission)—Left Side SJ18258-B

LEGEND:

- 1 [V01 Diode Module \(SS Transmission\)](#)
- 2 [XGND12 Front Wiper Ground](#)
- 3 [X211 Front Console/OOS Chassis Harness to Multifunction Switch Jumper Harness Connector](#)
- 4 [X201 Front Console/OOS Chassis Harness to Key/Light Switch Harness Connector](#)
- 5 [X141 Cab Chassis Harness to Front Console Harness Connector](#)
- 6 [K18 Start Relay \(SS Transmission\)](#)
- 7 [H18 Instrument Cluster Alarm](#)
- 8 [XGND3 Vehicle Chassis Ground](#)
- 9 [A912 CAN Terminator](#)
- 10 [M05 Front Wiper Motor](#)

Recall, Record, and Clear Codes

General Information

Codes are displayed as warning / alarm:

Stop (red Stop Sign): Vehicle / control unit detects a serious malfunction which requires immediate operator action. If vehicle is damaged, stop the system or engine immediately.

Service Alert (yellow Exclamation Point Sign): Vehicle / control unit detects a problem which requires operator action. Vehicle will be damaged or experience significant performance reduction if not serviced, repaired, or operated differently.

→NOTE:

Generally when multiple codes occur, diagnose "Stop" codes first and "Service Alert" codes second.

→NOTE:

When a diagnostic trouble code occurs, operational information is also recorded. Clearing the code, erases the operational information that could be used for diagnostic purposes. It is generally a good idea to clear codes at the control unit level as they are diagnosed rather than clearing codes for all control units at one time.

Recall, record, and clear codes using Service ADVISOR™. **GO TO 1.**

Recall, record, and clear codes using On-Board Diagnostics through [A01 Instrument Control Cluster \(ICC\)](#). **GO TO 2.**

Recall, record, and clear codes using performance monitor. **GO TO 3.**

(1) Recall, Record, and Clear Codes Using Service ADVISOR™

Action:

Recall, Record, and Clear Codes using Service ADVISOR™ with live connection to tractor: Recall diagnostic trouble codes (DTC) through "Diagnostics".

Result:

YES:Return to diagnosis.

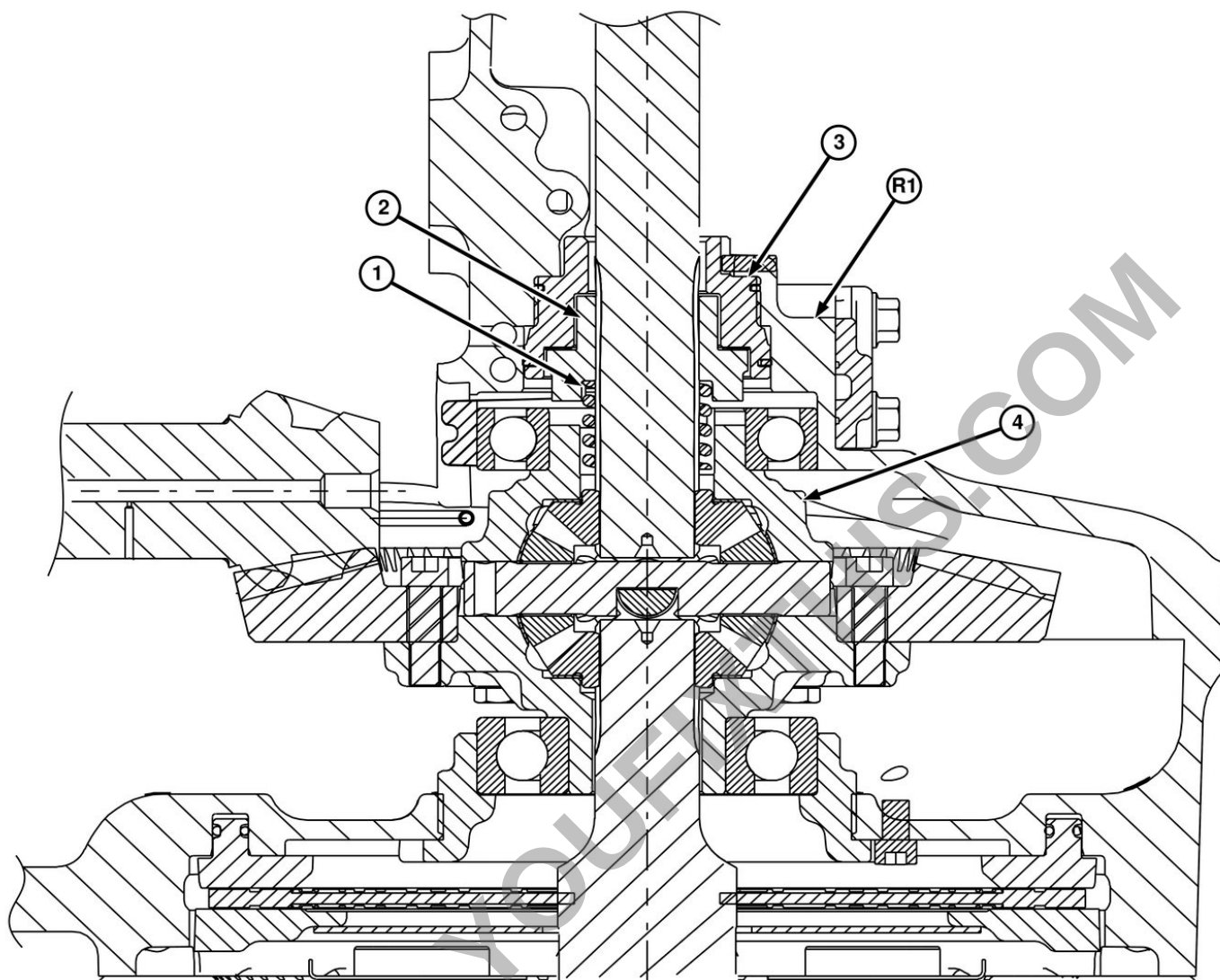
(2) Recall, Record, and Clear Codes Using On-Board Diagnostics

Action:

1. Place key switch in RUN position (engine OFF).
2. Stored Diagnostic Trouble Codes (DTC) appear on [A01 Instrument Control Cluster \(ICC\)](#) screen. If codes appear, record the information as the displays scrolls through the stored codes list.
3. Press and hold [S36 Roll Mode Switch](#) for 5 seconds to display first control unit screen.
4. Upon entering diagnostics, any active or previously active codes will automatically appear in a scrolling fashion with each one showing the TLA and code itself (consisting of SPN and FMI). To view and/or clear fault codes for any given TLA, you must do the following
5. Use [S07 Turn Signal Switch](#) to scroll and select CCU, ECU, EIC, ICC, or PTR.
6. Press and release the Roll Mode Switch to enter CCU, ECU, EIC, ICC, or PTR address space.
7. Use the Right Turn Signal Switch to scroll to diagnostic address 001 for that desired control unit.
8. If codes are present the word "codes" will appear. If not, the word "none" will appear.
9. Press and release the Roll Mode Switch to view all codes details for this control unit.
10. Any codes present in that control unit will appear there in scrolling fashion for multiple codes.
11. To access the option for clearing codes for this selected control unit, press and release the Right Turn Signal Switch.

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Drive Systems - Rear Differential Lock Operation

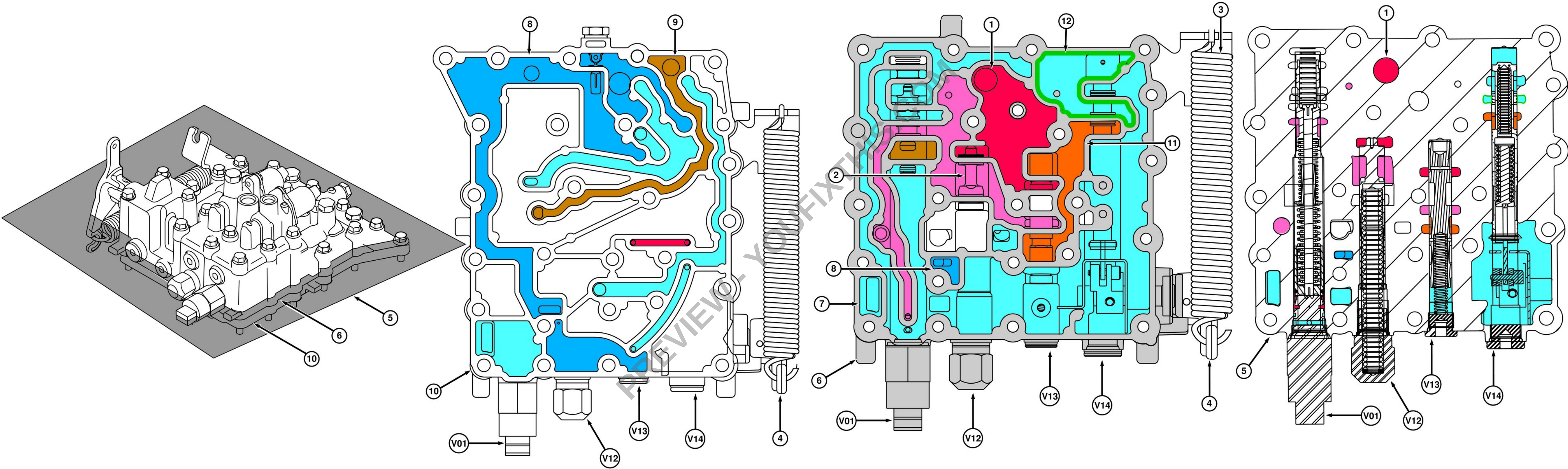


Differential Lock Disengaged

LEGEND:

- | | |
|----|-----------------------|
| R1 | Differential Case |
| 1 | Compression Spring |
| 2 | Locking Collar |
| 3 | Piston |
| 4 | Differential Assembly |

SS Transmission - Control Valve Neutral Operation



Section 260 - STEERING AND BRAKES

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- Select kickout detent.
- Start engine and set speed to 1500 rpm.
- Operate cylinder.

→NOTE: SCV should go to neutral after cylinder reaches end of stroke.

- Select no detent.
- Operate cylinder.

→NOTE: SCV should go to neutral when lever is released before cylinder reaches end of stroke.

9. If equipped with flow control:

- Adjust flow control and operate cylinder.

→NOTE: Cylinder speed should decrease as flow is decreased and increase as flow control is opened.

Result:

YES:GO TO 3.

NO:GO TO 3.

(3) Mid-Mount SCV Operational Check (If Equipped)

Action:

→NOTE:

Dual and triple mid-mount SCVs have different spool positions.

- **Dual Mid-Mount SCV**
 - **SCV I - Extend, Neutral, Retract, Float**
 - **SCV II - Extend, Neutral, Retract**
- **Triple Mid-Mount SCV**
 - **SCV I - Extend, Neutral, Retract**
 - **SCV II - Extend, Neutral, Retract, Float**
 - **SCV III - Extend, Neutral, Retract**

1. Start engine and set speed to 1500 rpm.
2. Operate all mid-mount SCVs one at a time in each position.
3. Shut engine OFF.
4. Install cylinder with a 203 mm (8 in.) stroke to any mid-mount SCV.
5. Start engine and set speed to 1500 rpm.
6. Operate cylinder.

→NOTE: Cylinder should extend and retract smoothly.

7. If equipped with flow control:

- Adjust flow control and operate cylinder.

→NOTE: Cylinder speed should decrease as flow is decreased and increase as flow control is opened.

Result:

YES:Return to diagnosis.

NO:Return to diagnosis.

Via oil chamber (I), system pressure oil acts on annular piston (K), spring (L), and thrust ring (M). In detent function (A), locking pin (P) can be forced out, thus enabling thrust ring (M) to move up. Balls (N) are under pressure, and the valve spool and control lever are held in the detent for extend cylinder.

The control lever remains in this position until it is moved to a different position by hand. When the engine is shut off, pressure drops in oil chamber (I), which is beneath annular piston (K). Balls (N) are no longer under pressure, and the valve spool and control lever are automatically returned to neutral by centering spring (C).

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