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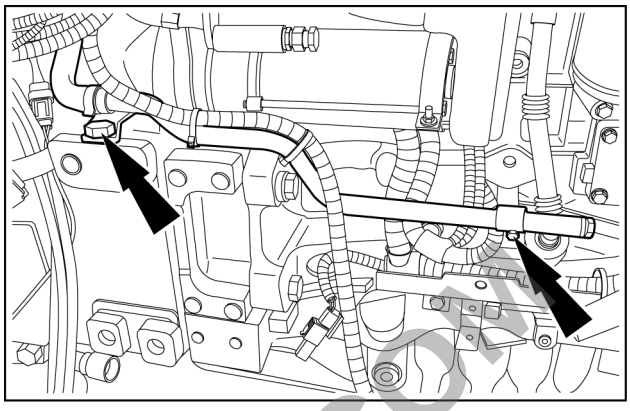
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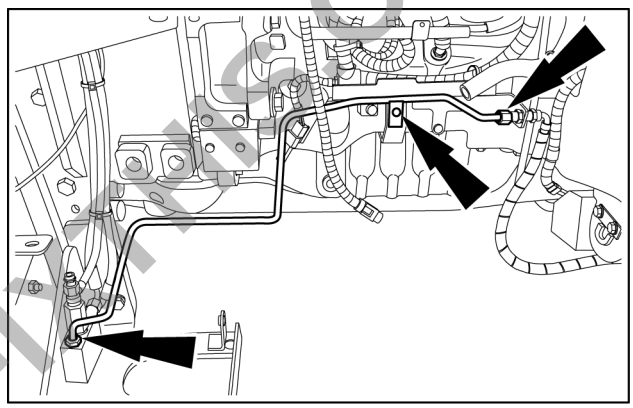
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55. Install the cab heater return pipe.



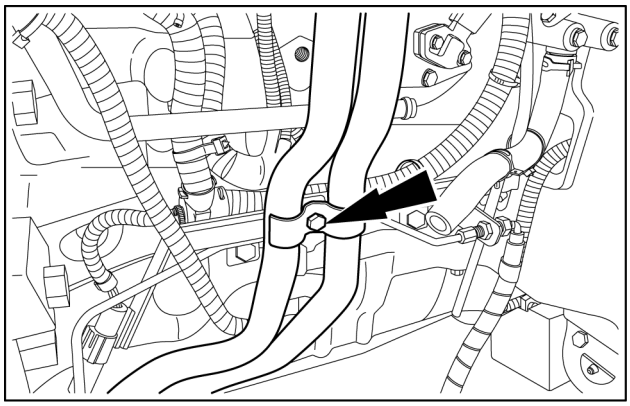
BAIL13TR00916AB 52

56. Install the front brake pipe.
    1. Install the front brake pipe retaining bracket .
    2. Connect the front brake pipe unions.



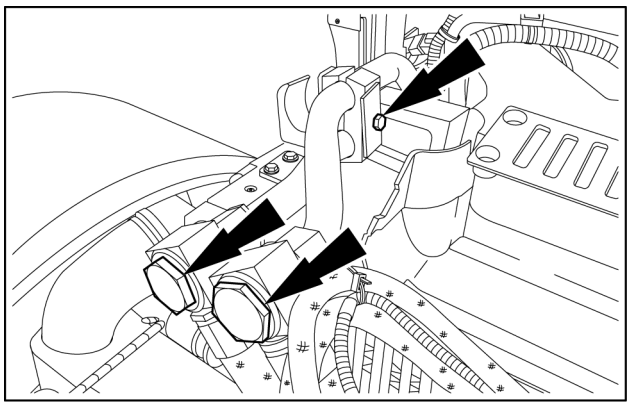
BAIL13TR00915AB 53

57. Install the oil cooler lines.



BAIL13TR00914AB 54

58. 1. Connect the oil cooler lines.
    2. Install the retaining bracket bolt.



BAIL13TR00913AB 55

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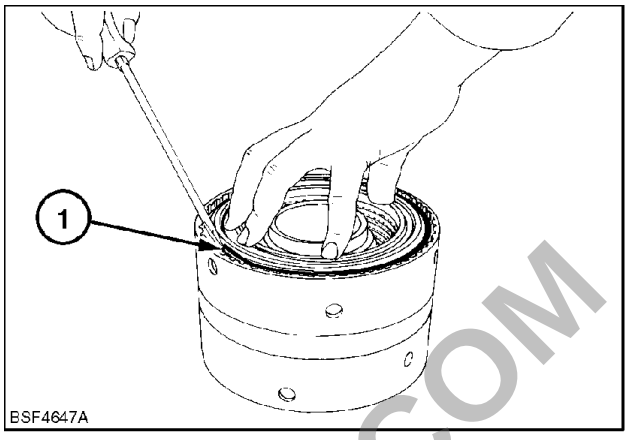
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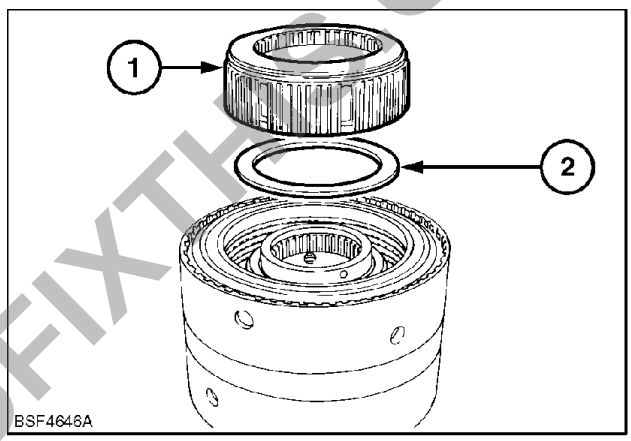
11. Install and compress the end plate and using a suitable lever install the snap ring **(1)**.
    Repeat the clutch plate installation process for the second clutch.

NOTE: *When compressing the end plate remove the securing rods.*



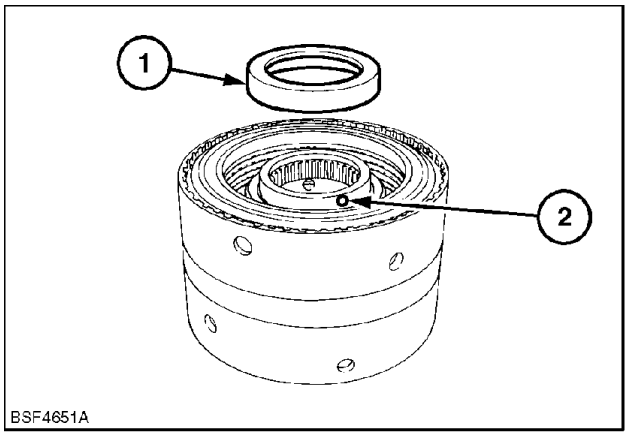
BSF4647A 11

12. Install the steel thrust washer **(2)** and the C1 clutch hub **(1)**.



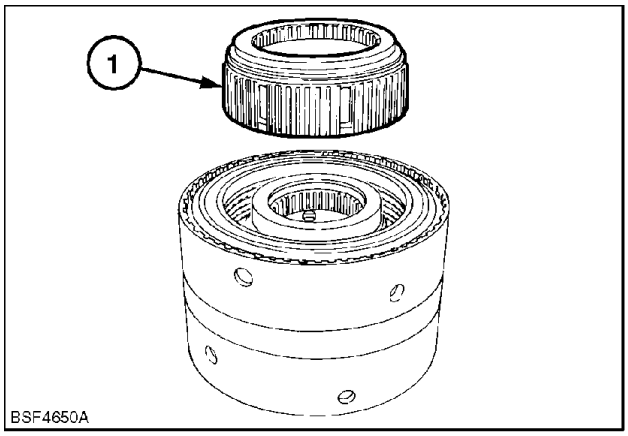
BSF4646A 12

13. Rotate the clutch housing **180 °**.
    Install the locating ball **(2)** and the C2 thrust cup **(1)**.



BSF4651A 13

14. Install the C2 clutch hub **(1)**.



BSF4650A 14

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Semi-Powershift transmission internal components - Service instruction Transmission Disassemble / Assemble Information

T6.120	WE
T6.140	WE
T6.150	WE
T6.155	WE
T6.160	WE
T6.165	WE
T6.175	WE

⚠ WARNING

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders. Failure to comply could result in death or serious injury.

W0398A

⚠ WARNING

Avoid injury!
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.
Failure to comply could result in death or serious injury.

W0208A

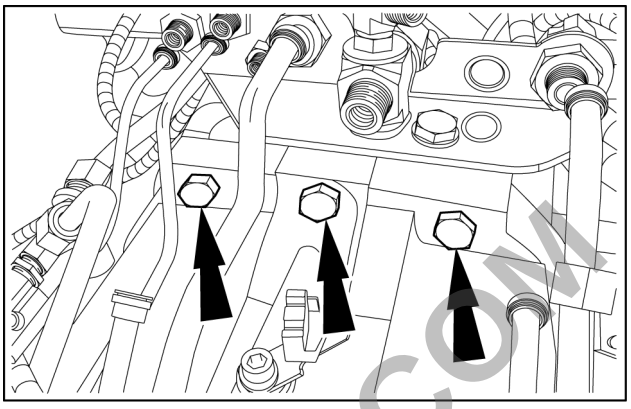
1. It is recommended that the transmission is disassembled in the sequence indicated. Removal of components of the transmission with the transmission oriented as shown in the colour diagram will facilitate operations.

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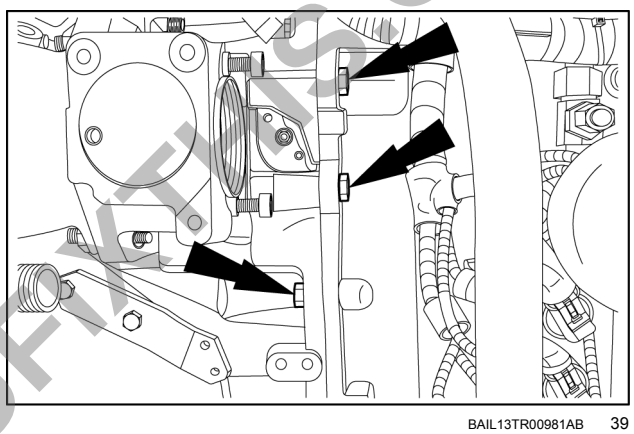
All vehicles

39. Remove the transmission to rear axle upper retaining bolts



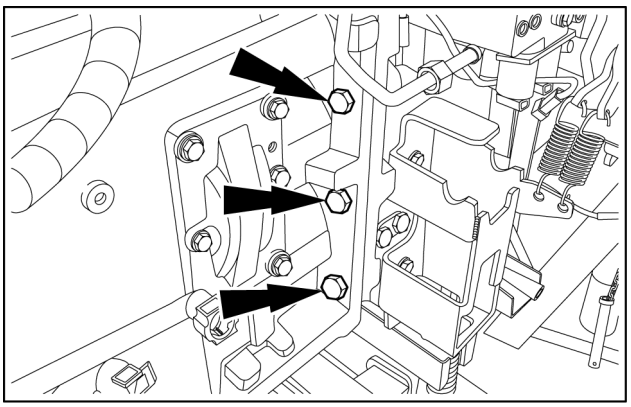
BAIL13TR00980AB 38

40. Remove the right-hand side transmission to rear axle retaining bolts.



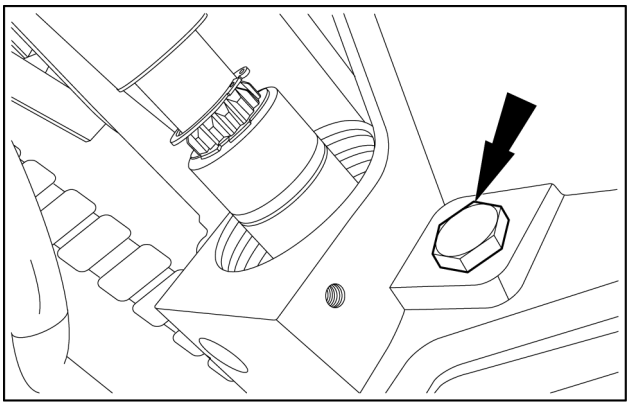
BAIL13TR00981AB 39

41. Remove the four left-hand side transmission to rear axle retaining bolts.



BAIL13TR00982AB 40

42. Remove the transmission to rear axle lower retaining bolt.



BAIL13TR00983AB 41

43. Roll the front axle, engine assembly and transmission away from the rear axle.

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Overdrive - 166

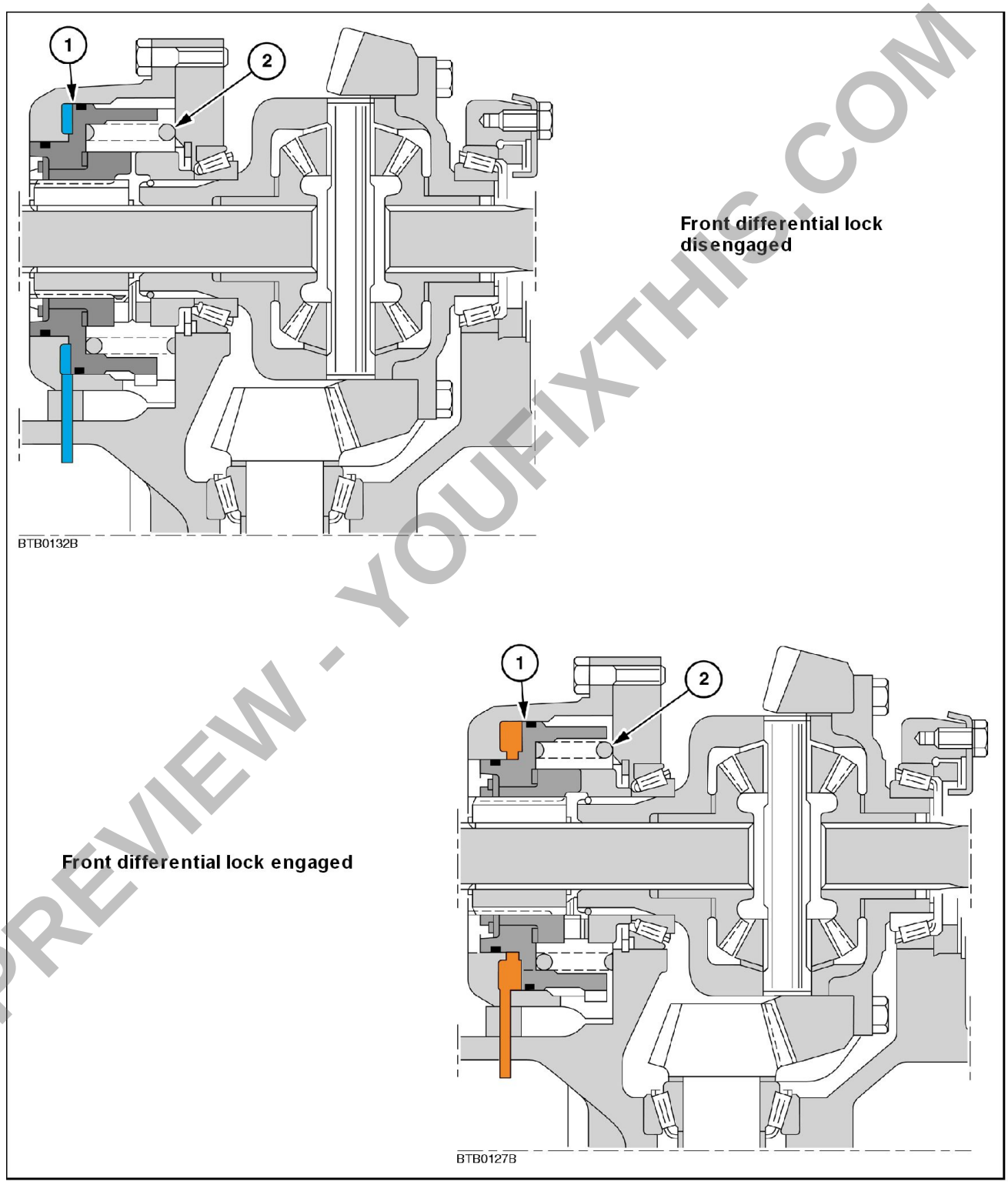
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Differential lock Dog clutch - Dynamic description

T6.120	WE
T6.140	WE
T6.150	WE
T6.155	WE
T6.160	WE
T6.165	WE
T6.175	WE



BTB0127B 1

Front differential lock disengaged

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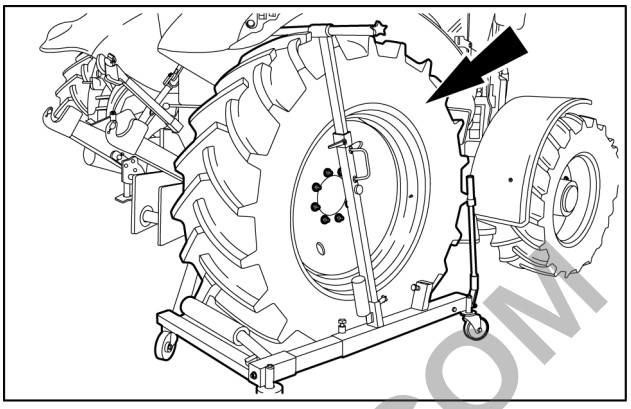
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5. **⚠ WARNING**

   Crushing hazard!
   The wheels on this vehicle are very heavy. Always use a wheel remover or chain hoists to remove and install the wheels. Use an assistant as required.
   Failure to comply could result in death or serious injury.

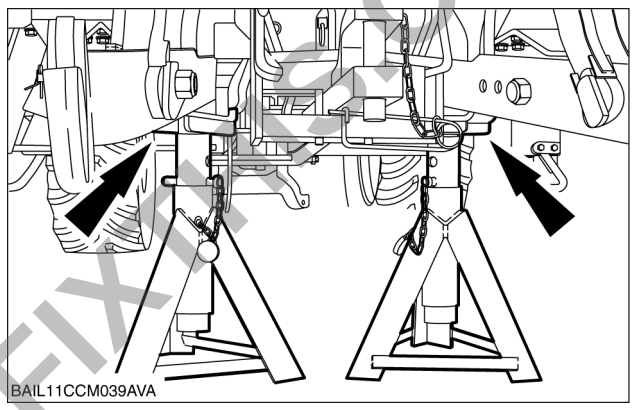
   W0149A

   Install the right-hand rear wheel.
   Tighten to the specified torque, for further information refer to **Rear wheel - Torque (44.520)**.



BAIL13TR00948AB 5

6. Raise the rear of the vehicle and remove the axle stands from under the final drive cases.



BAIL11CCM039AVA 6

7. Lower the vehicle.

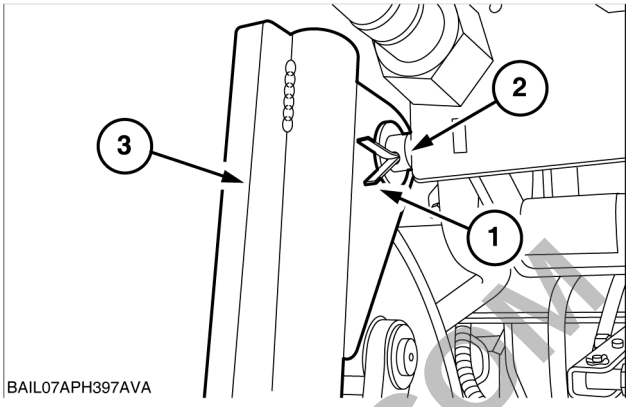
Next operation:
Calibrate the front axle, for further information refer to **Electronic module Universal controller - H1 - Calibration procedures (55.640)**.

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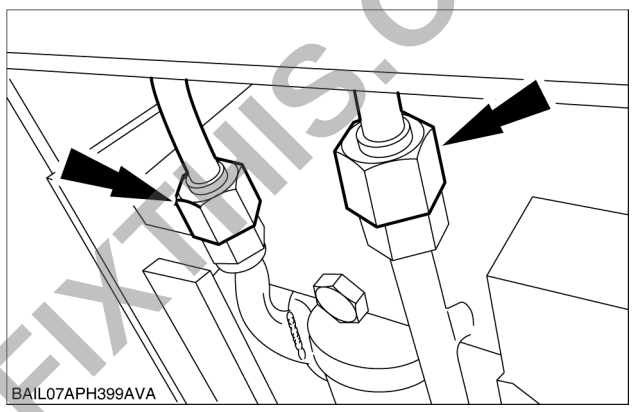
8. Remove the split pin **(1)**, remove the upper retaining pin **(2)** and remove the automatic pick-up hitch lift rod.

NOTE: *Repeat this step for the right-hand side.*



BAIL07APH397AVA 8

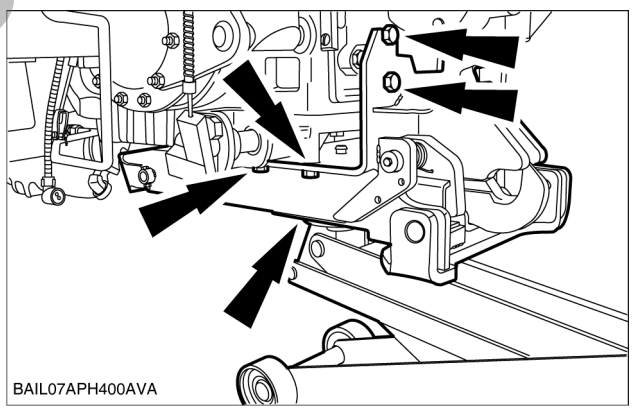
9. Disconnect the extending drawbar hydraulic supply and return pipes.



BAIL07APH399AVA 9

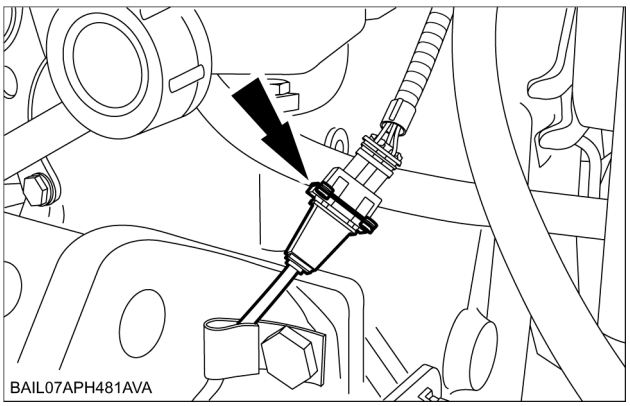
10. Support the extending drawbar and remove the retaining bolts.

NOTE: *Repeat this step for the right-hand side.*



BAIL07APH400AVA 10

11. Remove the extending drawbar assembly.
12. Disconnect the power take off (PTO) speed sensor electrical connector.

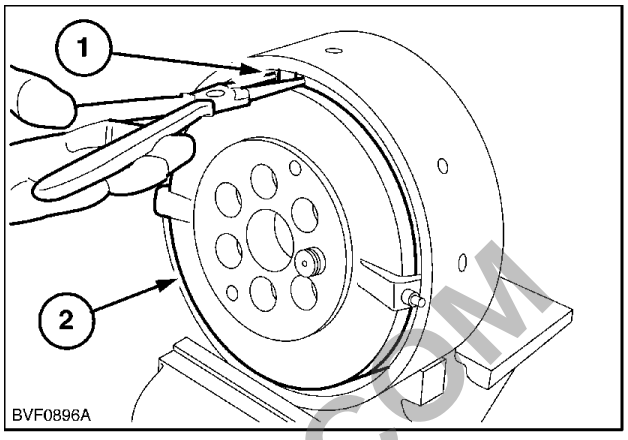


BAIL07APH481AVA 11

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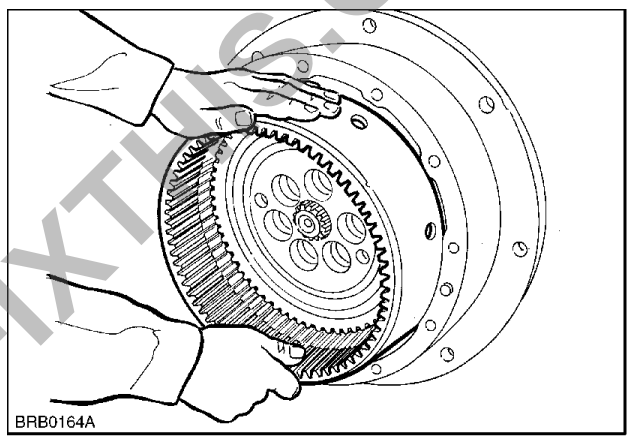
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4. Using suitable circlip pliers, compress the circlip **(1)** and install the piston carrier plate **(2)** into the ring gear.



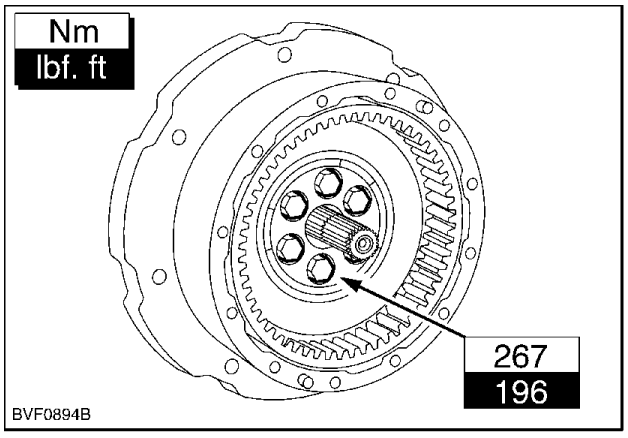
BVF0896A 4

5. Install the ring gear.



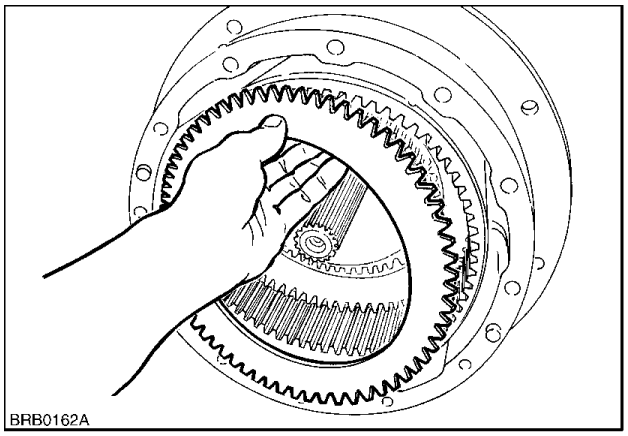
BRB0164A 5

6. Install the retaining bolts and tighten to the specified torque value.



BVF0894B 6

7. Install the inner brake disc into the ring gear.

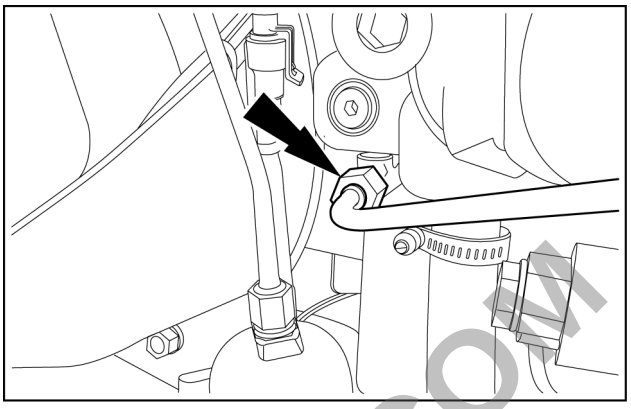


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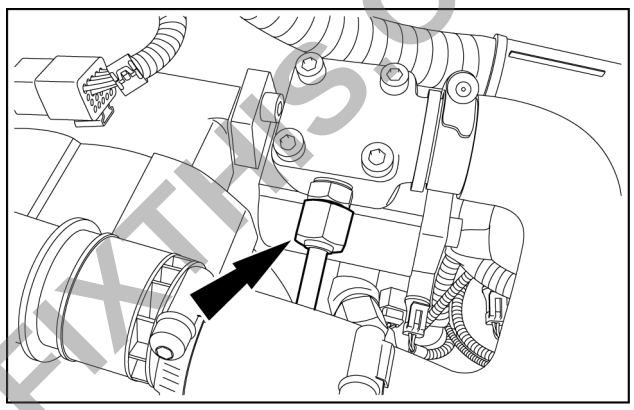
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8. Install the auxiliary pump pipe.



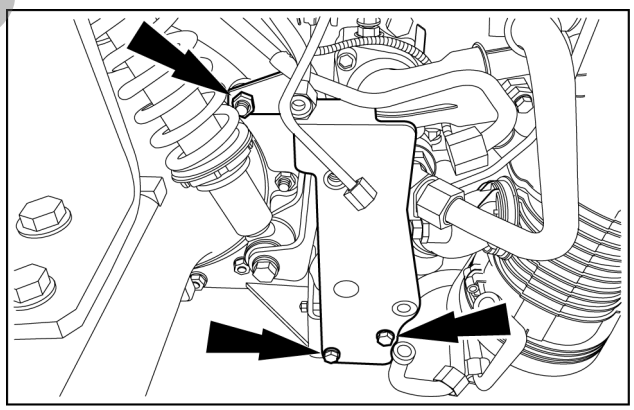
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9. Connect the auxiliary pump pipe.



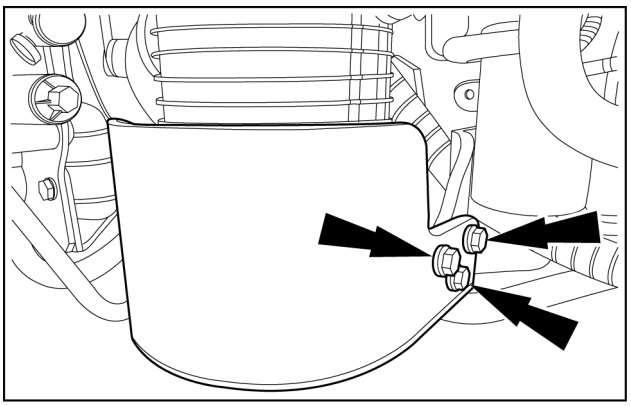
BAIL13TR00936AB 9

10. Install the suspension control valve bracket (if fitted).



BAIL13TR00938AB 10

11. Install the oil filter shield.



BAIL13TR00935AB 11

Next operation:
Install the suspension control valve (if fitted), for further information refer to **Suspended axle control valve - Install (25.122)**

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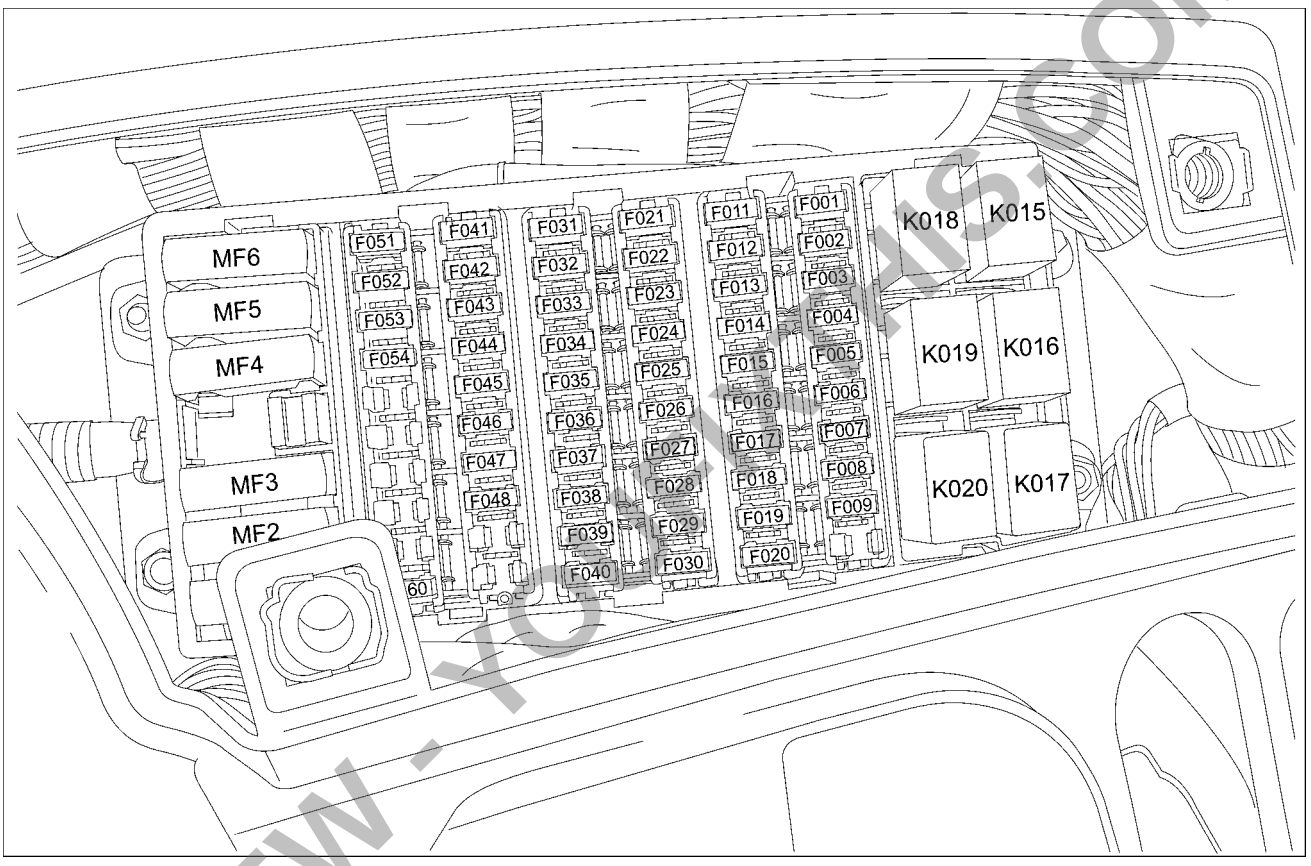
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Maxi Fuses

No.	Amps	Fused components
MF1	80	Supply to F-009, F-011, F-012, F-013, F-014, F-015, F-016, F-017, F-018, F-019, F-020, F-021, F-045, F-048, F-051
MF2	30	Supply to F-006, F-007, F-008, F-052, F-053, F-054
MF3	80	Supply to F-029, F-030, F-033, F-034, F-035, F-046, F-047, K-005
MF4	80	Supply to F-027, F-028, Rear Power Socket Implement
MF5	80	Supply to F-025, F-026, F-031, F-032
MF6	80	Supply to F-001, F-002, F-003, F-004, F-005, F-044



SS11M159 2

Relays outside of the relay box

K-021	Timer Relay Battery Isolator
K-022	Heated Mirror Timer Relay
K-023	Grid Heater Relay
K-024	Fuel Heater Relay
K-030	SCR Supply (Potential 15) Relay
K-031	Front Worklamp Relay
K-032	Rotating Beacon Relay
K-033	Rear Worklamp Relay
K-055	Relay 1 (Front Loader)
K-056	Relay 2 (Front Loader)
K-060	Reverse Alarm/Light Relay
K-070	Diff. Lock Lamp Relay

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Component	Connector	Description
A-061	**X621**	Steering Controller
B-020	**X625**	Steering Wheel Sensor
B-021	**X626**	Split Valve Position Sensor **(LVTD)**
S-004	**X624**	Control Switch
Y-015	**X627**	Change Valve Solenoid
Additional Connectors: **X623**		

Wire Color Codes

BK Black	**GN** Green	**PK** Pink	**BL** Blue
TN Light Brown	**BR** Brown	**OR** Orange	**LG** Light Green
RD Red	**GY** Grey	**LB** Light Blue	
WH White	**YE** Yellow	**VT** Violet	

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POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
41	**GN**	2014 / -	NOT USED
42	**GY**	7220 / -	NOT USED
43	**GY**	7230 / -	NOT USED
44	**LB**	7900 / 7431	SUPPLY
45	**PK / OR**	7785	A CLUTCH PRESSURE SIGNAL
46	**PK**	5080	EDC ROCKSHAFT
47	**TN**	5020	EDC PROC +5V REF VOLTAGE DROP POSN/RATE
48	**LB**	7920 / -	NOT USED
49	**GN**	2050	PTO SUPPLY / DOG SUPPLY
50	**BR**	9000	DIVERTER VALVE
51	**BL**	7589	BRAKE PRESSURE SIGNAL

T6.120 - 175

POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
1	**YE**	3024	2WD SOLENOID
2	**BL**	7005	TRANS CREEPER GR SOL
3	**LG**	7080	DIFF-LOCK SOLENOID FEED
4	**BR**	2130	PTO BRAKE SOLENOID
5	**OR**	2051	PTO SOLENOID RETURN (-)
6	**OR**	2042	PTO SOLENOID-REAR
7	**OR**	2140	PTO SPEED SENSOR
8	**WH**	2062	PTO TWIST SENSOR
9	**YE**	2016	REAR AXLE SPEED SENSOR-SIGNAL
10	**PK**	6000	ENGINE SPEED SIGNAL
11	**VT**	7321	SOLENOID 2 18x9 RETURN
12	**WH**	7320	SOLENOID 2 18x9 TRANSMISSION
13	**YE**	7301	SOLENOID 1 18x9 RETURN
14	**WH**	7300	TRANSMISSION PWM SOLENOID 1-4 SYNCHRO
15	**PK**	7815	TRANS PWM SOLENOID C1 RETURN
16	**PK**	7810	TRANS PWM SOLENOID C1
17	**PK**	7825	TRANS PWM SOLENOID C2 RETURN
18	**PK**	7820	TRANS PWM SOLENOID C2
19	**PK**	7835	TRANS PWM SOLENOID C3 RETURN
20	**PK**	7830	TRANS PWM SOLENOID C3
21	**TN**	9036	50KPH DUMP SOLENOID RETURN
22	**PK**	7840	TRANS PWM SOLENOID C4
23	**VT**	8045	TRANS REV SOL RET
24	**LG**	8040	TRANS REV SOLENIOD
25	**VT**	8035	TRANS FWD SOL RET
26	**LG**	8030	TRANS FWD SOLENIOD
27	**OR**	7581	CREEPER POSITION SIGNAL
28	**RD**	7670	TRANS FRONT SYNCHRO POSITION
29	**TN**	9035	50KPH DUMP SOLENOID
30	**VT**	7960	TRANS SLOW/FAST
31	**GN**	7500	TRANS OIL TEMP. SENSOR
32	**PK**	5097	EDC VALVE DOWN RETURN
33	**PK**	5090	EDC VALVE DOWN
34	**PK**	5087	EDC VALVE UP RETURN
35	**PK**	5085	EDC VALVE UP
36	**TN**	5070	EDC LEFT PIN
37	**PK**	5075	EDC VOLTAGE TO PINS
38	**TN**	5065	EDC RIGHT PIN
39	**TN**	9033	50KPH SOLENOID+
40	**TN**	9034	50KPH SOLENOID-
41	**BL**	7000	TRANS CONTROL SUPPLY
42	**GY**	7220	TRANSMISSION HIGH RANGE

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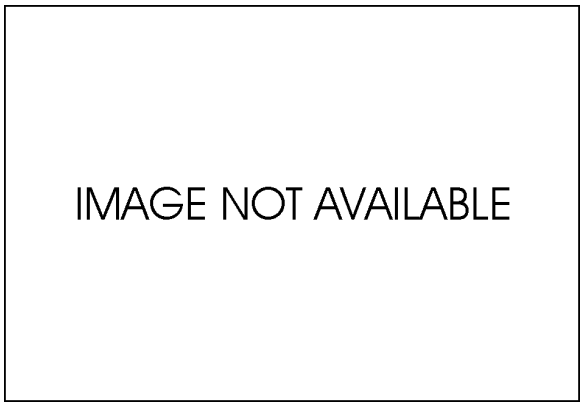
Wire connectors - Component diagram 27

X272 System Oil Pressure Switch

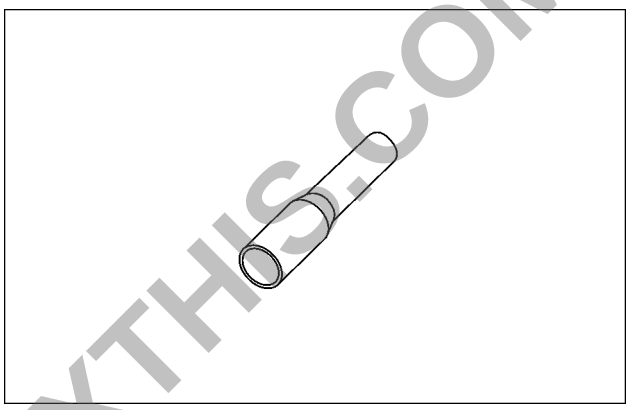
T6.120 - 175

POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
1	**BK**	57	EARTH (ALL)

NOTE: *For the wiring color code refer to,* ***Wire harnesses - Identification (55.100)****.*



INA 1



SS11N048 2

X273 System Oil Pressure Sensor

16x16 Transmission

POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
A	**BK/WH**	60	SENSOR GROUND
B	**GN**	5020	EDC PROC +5V REF VOLTAGE DROP POSN/RATE
C	**YE**	2012	TRANS OIL PRESSURE WARNING LAMP

24x24 Transmission

POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
A	**BK/WH**	60	SENSOR GROUND
B	**TN**	2014	ENGINE OIL PRESSURE SENDER (+5 VOLT)
C	**YE**	2012	TRANS OIL PRESSURE WARNING LAMP

T6.140 - 160 AutoCommand

POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
A	**BK/WH**	60	SENSOR GROUND
B	**TN**	5020	EDC PROC +5V REF VOLTAGE DROP POSN/RATE
C	**YE**	2012	TRANS OIL PRESSURE WARNING LAMP

NOTE: *For the wiring color code refer to,* ***Wire harnesses - Identification (55.100)****.*

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X758 Blower Speed Switch

T6.120 - 175 (up to 02/2013)

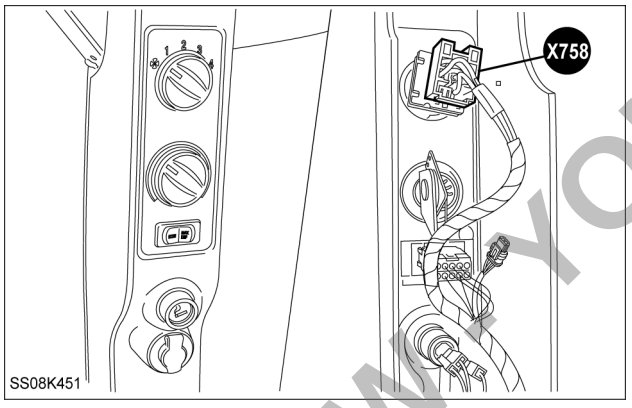
POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
A	**GN**	9211	AC-BLOWER SPEED LOW (1)
B	**PK**	9212	AC-BLOWER SPEED MED.1 (2)
C	**PK**	9213	AC-BLOWER SPEED MED.2 (3)
D	**GN**	9214	AC-BLOWER SPEED HIGH.2 (2)
E	**RD**	982	BLOWER MOTOR FEED
F	**GN**	9210	AC-SWITCH POWER

from 03/2013

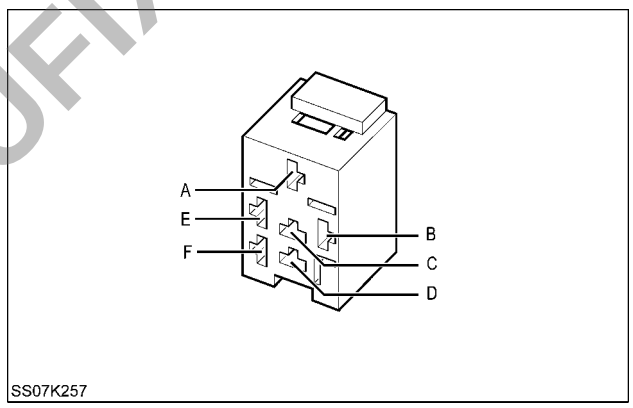
POS.	COLOR	WIRE NUMBER	CIRCUIT REFERENCE
A	**GN**	9211	AC-BLOWER SPEED LOW (1)
B	**PK**	9212	AC-BLOWER SPEED MED.1 (2)
C	**PK**	9213	AC-BLOWER SPEED MED .2 (3)
D	**GN**	9214	AC-BLOWER SPEED HIGH .2 (2)
E	**RD**	982	BLOWER MOTOR FEED
F	**GN**	9210	AC-SWITCH POWER

NOTE: *For the wiring color code refer to,* ***Wire harnesses - Identification (55.100)****.*

Up to 02/2013



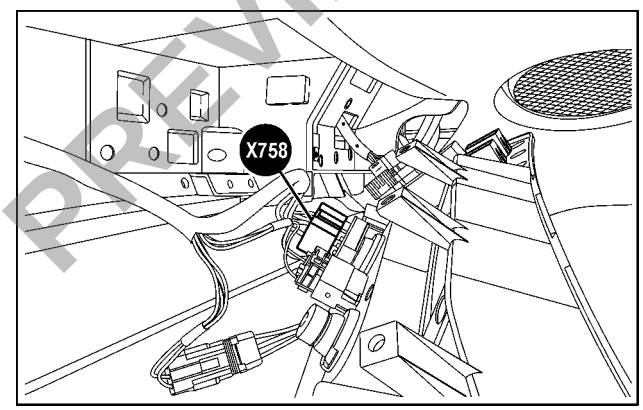
SS08K451 31



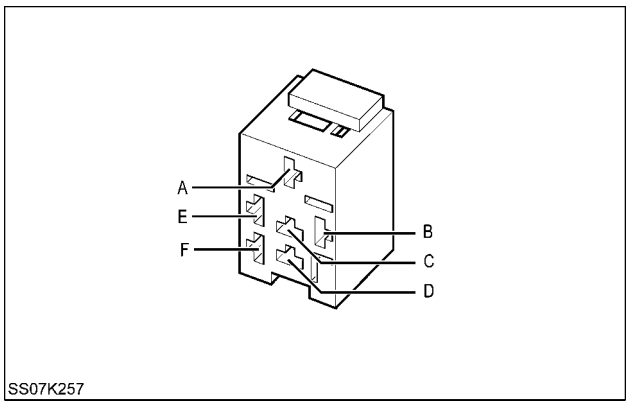
SS07K257 32

CAB LEFT HAND C-PILLAR

HIGH ROOF (from 03/2013)



SVIL13TR00538AE 33

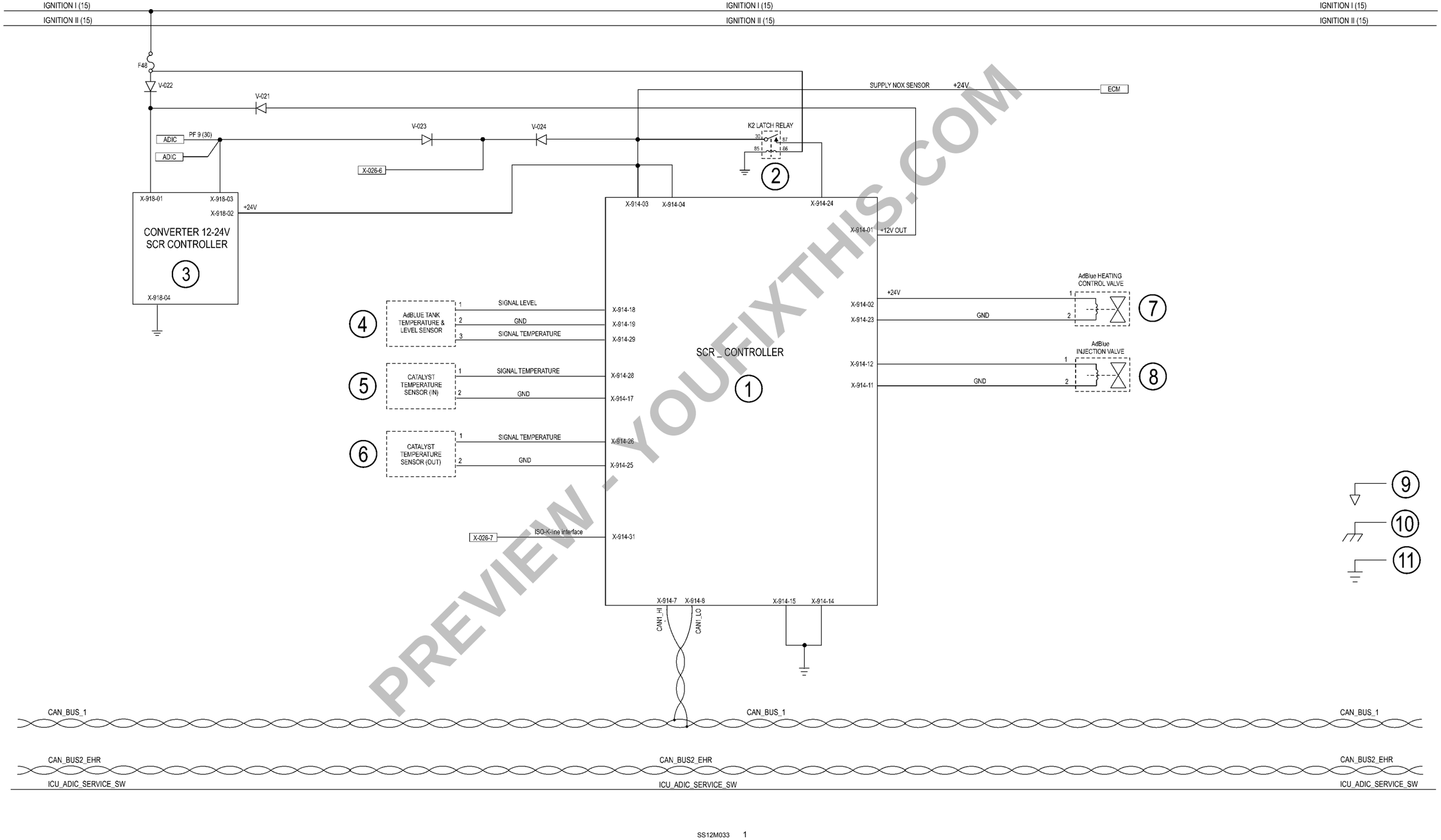


SS07K257 34

RIGHT-HAND SIDE INSIDE THE CAB ROOF

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F100 (30) | F100 (30) | F100 (30)
MF6 (30) | MF6 (30) | MF6 (30)
MF5(30) | MF5(30) | MF5(30)
MF3 (30) | MF3 (30) | MF3 (30)
IGNITION I (15) | IGNITION I (15) | IGNITION I (15)
IGNITION II (15) | IGNITION II (15) | IGNITION II (15)



SS12M033 1

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Code	Description
18045	EHR 3 lever position – voltage too high
18046	EHR float control switch error
18047	EHR 4 lever position – voltage too low
18048	EHR 4 lever position – voltage too high
18049	Joystick 1 X-axis position – voltage too low
18050	Joystick 1 X-axis position – voltage too high
18051	Joystick 1 Y-axis position – voltage too low
18052	Joystick 1 Y-axis position – voltage too high
18053	Joystick 1 proportional rocker switch – voltage too low
18054	Joystick 1 proportional rocker switch – voltage too high
18055	Joystick 2 X-axis position – voltage too low
18056	Joystick 2 X-axis position – voltage too high
18057	Joystick 2 Y-axis position – voltage too low
18058	Joystick 2 Y-axis position – voltage too high
18059	Joystick 2 proportional rocker switch – voltage too low
18060	Joystick 2 proportional rocker switch – voltage too high
18061	Reference voltage – short circuit to ground
18062	Reference voltage – short circuit to 12V
18063	EEPROM error
18064	MFH communication error
18065	MFH basic assurance test error
18066	EHR 1 lever implausibility error
18067	EHR 2 lever implausibility error
18068	EHR 3 lever implausibility error
18069	EHR 4 lever implausibility error
18070	EHR 5 lever implausibility error
18071	EHR 6 lever implausibility error
18072	EDC mouse raise / work switch fault (NH)

DeNox \ Selective Catalytic Reduction (SCR) – Error Codes

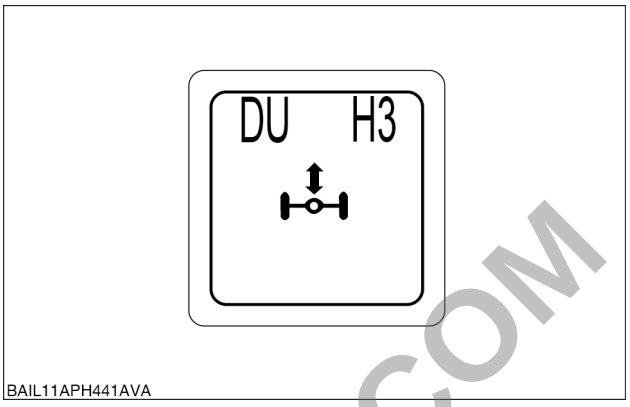
Code	Description
19001	Battery voltage sensing (electrical) – signal high – P0563 Battery voltage evaluation above upper limit
19002	Battery voltage sensing (electrical) – 'signal low – 'P0562 Battery voltage evaluation below lower limit
19003	Battery voltage sensing (electrical) – signal high – P0563 Battery voltage evaluation above upper limit
19004	Battery voltage sensing (electrical) – 'signal low – 'P0562 Battery voltage evaluation below lower limit
19010	Temperature sensor after catalyst (electrical) – signal high – P042D Catalyst Temperature Sensor Circuit High
19011	Temperature sensor after catalyst (electrical) – 'signal low – 'P042C Catalyst Temperature Sensor Circuit Low
19019	Temperature sensor before catalyst (electrical) – signal high – P0428 Catalyst Temperature Sensor Circuit High
19020	Temperature sensor before catalyst (electrical) – 'signal low – 'P0427 Catalyst Temperature Sensor Circuit Low
19021	Temperature sensor before catalyst (electrical) – signal high – signal above high error threshold
19022	Temperature sensor before catalyst (electrical) – signal low – signal below low error threshold
19037	Sensor supply 2 (5V internal; for UREA pressure sensors) – Supply Voltage too high – P204D Reagent - pressure sensor - short circuit high
19038	Sensor supply 2 (5V internal; for UREA pressure sensors) – 'Supply voltage too low – 'P204C Reagent - pressure sensor - short circuit low
19046	UREA pressure sensor in box (electrical) – 'supply voltage error – 'P204A Reagent - pressure sensor - open circuit
19047	UREA pressure sensor in box (electrical) – signal high – P204D Reagent - pressure sensor - short circuit high
19048	UREA pressure sensor in box (electrical) – 'signal low – 'P204C Reagent - pressure sensor - short circuit low

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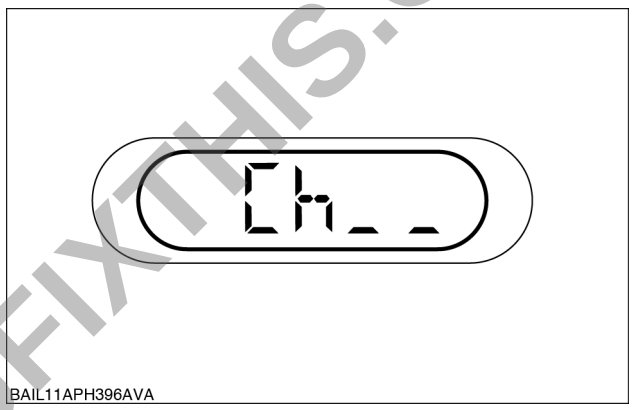
FRONT AXLE SUSPENSION OPTIONS

Select the front axle suspension sub-system by depressing the "dimming" button.



BAIL11APH441AVA 2

The lower central display will display "ch _ _".



BAIL11APH396AVA 3

The required channel can be selected by using the "h" and "m" buttons.

After a delay the lower central display will cycle through the channel followed by the stored option (refer to the table below for the description of each channel).

Channel	Description
Ch 1	Enable / Disable front axle suspension

Channel 1 - Enable / Disable Front Axle Suspension

Scroll through the available options using the "h" or "m" buttons.

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Electronic module Universal controller - HJ - Electronic hydraulic remote control valve number programming

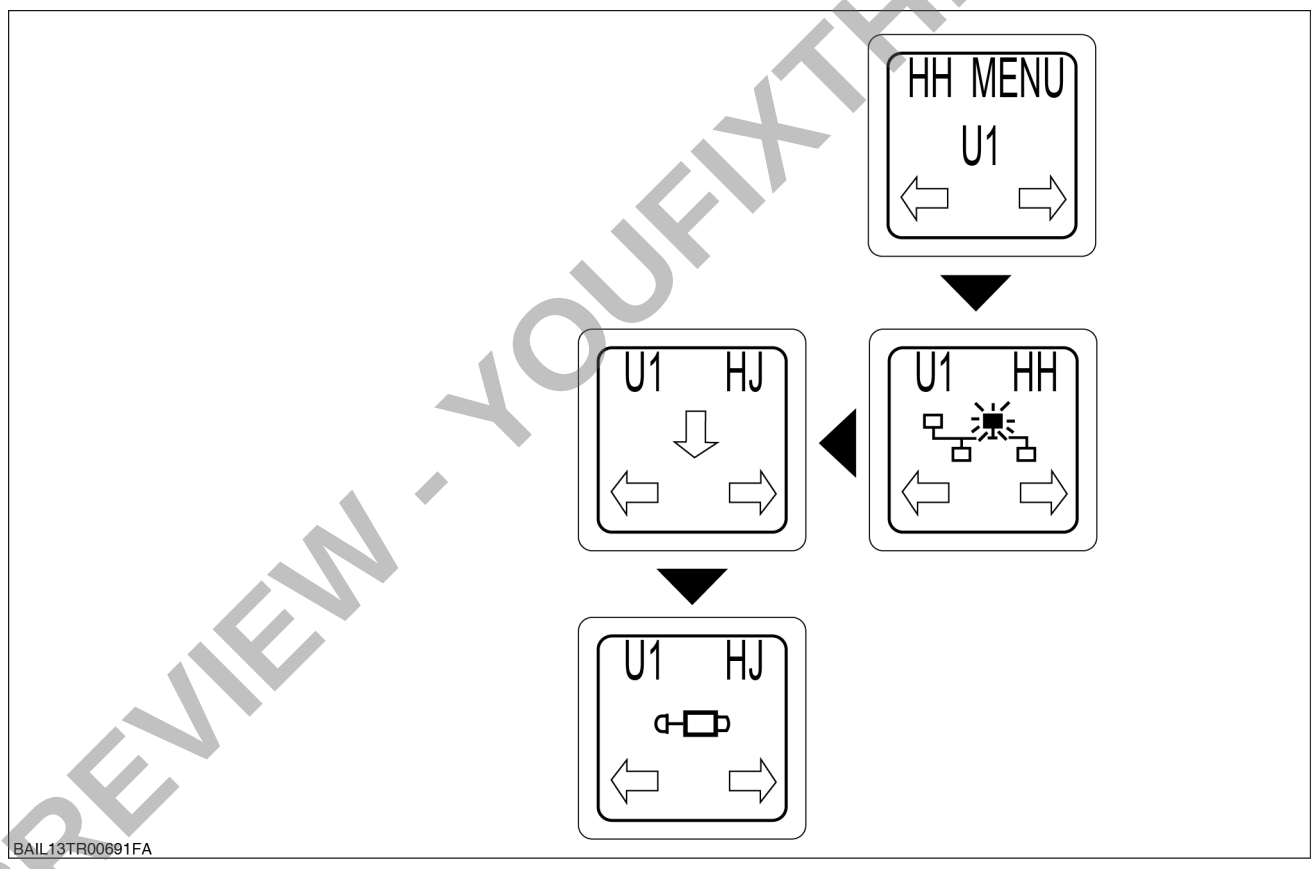
T6.140 AutoCommand	WE
T6.150 AutoCommand	WE
T6.160 AutoCommand	WE

NOTE: *Each EHR valve has its own built in processor. The processor stores in its memory the valve's number within the EHR stack, i.e. whether it is valve number 1, 2, 3 or 4. If it becomes necessary to replace a valve assembly then it becomes necessary to reprogram the number of each valve within the complete valve assembly. Replacement valve assemblies are supplied with no number assigned. To reprogram the valve number sequence use the following procedure.*

NOTE: *This procedure details the procedure for renumbering the rear EHR valves, the same procedure applies for renumbering the front valves, using the front EHR sub-system.*

ATTENTION: *It is essential that the renumbering procedure for a complete set of valves (e.g. all rear valves) must be completed in its entirety before commencing the procedure for the other set of valves.*

HJ Menu Screen Select Diagram

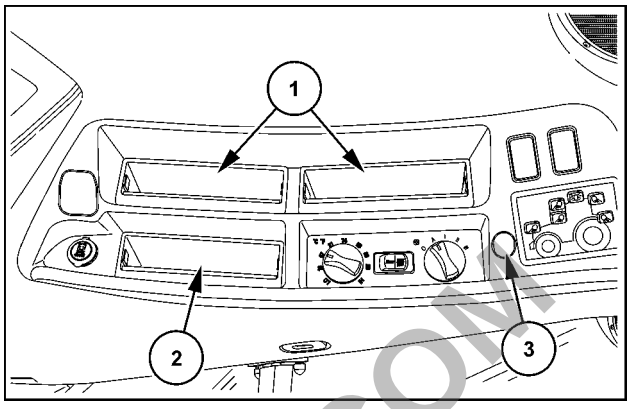


BAIL13TR00691FA 1

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10. Fit the storage compartments **(1)**. Fit the storage compartment **(2)** or radio (if fitted). Fit the cover cap **(3)**.



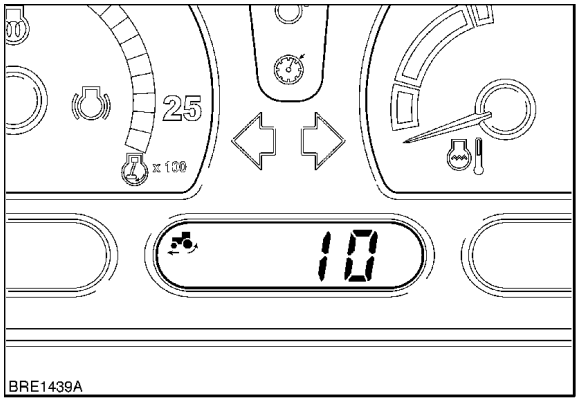
SVIL13TR00665AC 4

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Rear Wheel Slip

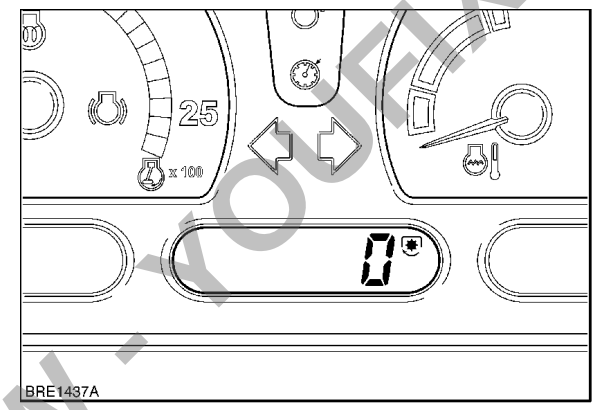
If your tractor is equipped with optional ground speed radar, the percentage (%) of rear wheel slip may be displayed. The slip figure is calculated from information provided by the transmission speed sensor (theoretical ground speed) and the radar (true ground speed).



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Power Take Off Speed

When operating the rear Power Take Off the display may be used to monitor the output shaft speed. Use the CAL/SEL button or Enhanced Keypad (where fitted), to select either rear P.T.O. speed or front P.T.O. speed (where fitted).



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