Manual content

This manual is divided into Sections. Each Section is then divided into Chapters. Contents pages are included at the beginning of the manual, then inside every Section and inside every Chapter. An alphabetical Index is included at the end of each Chapter. Page number references are included for every piece of technical information listed in the Chapter Contents or Chapter Index.

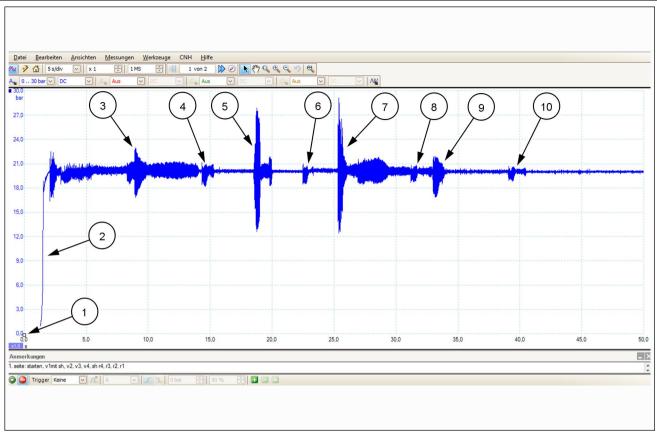
Each Chapter is divided into four Information types:

- Technical Data (specifications) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Functional Data (how it works) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Diagnostic Data (fault codes, electrical and hydraulic troubleshooting) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Service Data (remove disassemble, assemble, install) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.

Sections

Sections are grouped according to the main functions or a systems on the machine. Each Section is identified by a number (00, 35, 55, etc.). The Sections included in the manual will depend on the type and function of the machine that the manual is written for. Each Section has a Contents page listed in alphabetic/numeric order. This table illustrates which Sections could be included in a manual for a particular product.

SECTION Combines, forage harvesters, balers, 00 - Maintenance X X X 00 - Maintenance X X X X 10 - Engine X X X X 11 - Main gearbox and drive X X X X 12 - Transmission X X X X 23 - Four wheel drive (4WD) system X X X X 23 - Four wheel drive (4WD) system X X X X 23 - Four wheel drive (4WD) system X X X X 23 - Four wheel drive (4WD) system X X X X 23 - Four wheel drive (4WD) system X X X X 23 - Four wheel drive (4WD) system X X X X 24 - Transmission X X X X X 25 - Front axle system X X X X X 31 - Power Take-Off (PTO) X X X X X 33 - Brakes and controls X X X		PF	ROD	UC	Т		
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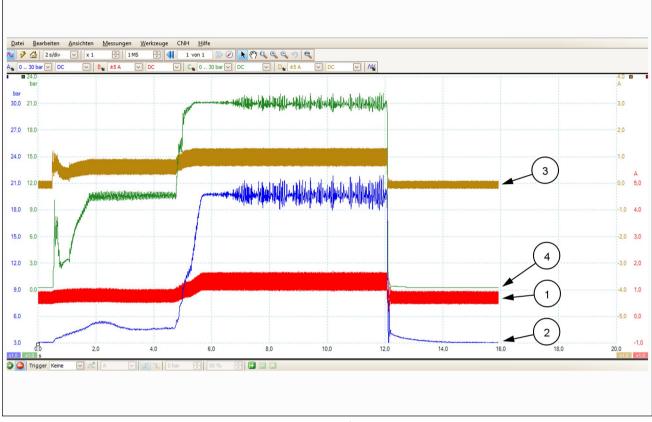
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- (1) Engine off (system pressure 0 bar (0 psi))
- (2) Engine start-up (system pressure builds)
- (3) Set-off with shuttle lever
- (4) Switch of powershift ratio from Forward 1 to Forward 2
- (5) Switch of powershift ratio from Forward 2 to Forward 3
- (6) Switch of powershift ratio from Forward 3 to Forward 4
- (7) Switch from Forward travel to Reverse travel
- (8) Switch of powershift ratio from Reverse 4 to Reverse 3
- (9) Switch of powershift ratio from Reverse 3 to Reverse 2

(10) Switch of powershift ratio from Reverse 2 to Reverse 1

Test conditions for powershift ratio 3 Forward:

- Transmission oil temperature 50 °C (122 °F)
- motor speed 1500 RPM
- · Flat road with no equipment present
- · Second gear, road range and third powershift ratio
- Push the shuttle lever into the Forward position to move off. Then press the neutral button to stop again



SS13K184 4

- (1) Current through the solenoid valve for clutch C
- (2) Hydraulic pressure in clutch C
- (3) Current through the solenoid valve for clutch B
- (4) Hydraulic pressure in clutch B

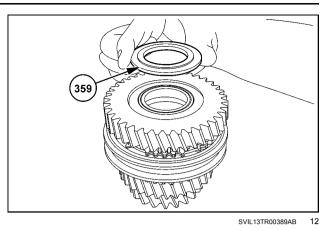
- 16. Grease the thrust washer **(359)** with industrial Vaseline.
- 17. Install the thrust washer (359) on the fourth gear. The oil pockets must face downward.

 Use a suitable positioning tool to press the bearing (358) into the transmission housing via the bearing outer ring.

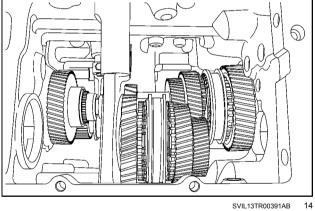
19. Install the prepared gear set with the synchronizer in the transmission housing on the main shaft.

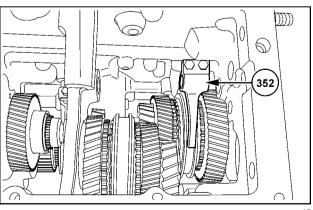
20. Install the shift fork for first and second gear (352) over the shift collar.

NOTICE: Subsequent installation of the shift fork is no longer possible.









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Differential lock - Troubleshooting

Problem	Possible Cause	Correction
The differential lock fails	Transmission oil level low.	Top up oil.
to engage.		
	Clogged oil filter.	Replace filter.
	Hydraulic pump faulty.	Overhaul or replace the pump.
	Faulty differential lockunlock switch.	Replace switch.
		Check electrical connections and replace
	connections loose or damaged, contactor	defective parts.
	faulty.	
	Differential lock control solenoid valve	Overhaul or replace solenoid valve.
	jammed in discharge position.	
	Oil leakage through the seals with conse-	Replace damaged seals.
	quent pressure drop: piston seals or deliv-	
	ery pipe seals.	
Differential lock fails to	Differential lock solenoid valve jammed in	Overhaul or replace solenoid valve.
disengage.	delivery position.	
	Differential lock release spring broken.	Replace spring.
	Lack of power supply to the solenoid valve:	Check electrical connections and replace
	connections loose or damaged, contactor	defective parts.
	faulty.	
With differential lock	Switch governed by the brake pedal, con-	Change the switch or repair the electrical
engaged, the differential	nected to the control unit, defective.	system.
lock does not disengage		
when brake pedals are		
pressed.		

9. Insert the thrust washer (82) into the bevel gear (80).

10. Insert the O-rings (95) and (96) into the ring grooves

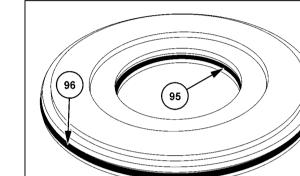
11. Fit the piston (94). Make sure that the flat side of the

piston faces the differential housing (97).

NOTE: Grease the O-rings with industrial Vaseline.

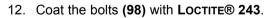
of the piston (94).

82 SS13H065 8



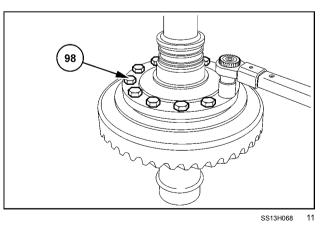
SS13H066 9

SS13H067 10



- 13. Fit the differential housing (97) on the differential housing (73).
- 14. Insert screws and tighten to 115 Nm (84.8 lb ft).

NOTE: Use the press to secure the differential so that the differential does not turn.

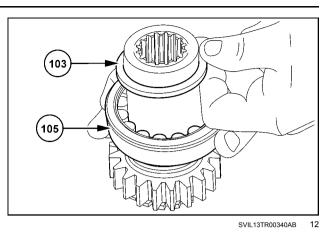


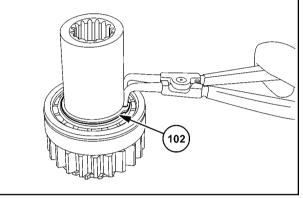
11. Fit the bearing **(105)** and the thrust washer **(103)** on the intermediate shaft. The internally chamfered side of the thrust washer must face the bearing.

12. Fit the circlip (102).

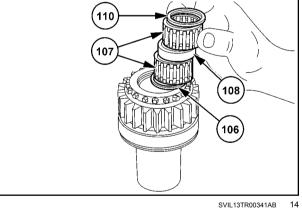
13. Fit the spacer disk (106), the needle bearing (107), the spacer ring (108), the needle bearing (107) and the spacer disk (110).

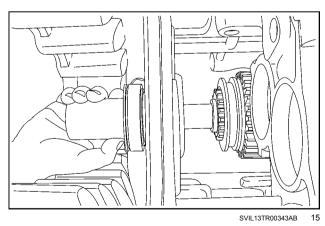
14. Fit the pre-assembled intermediate shaft in the transmission housing bore. See also figure **16**.

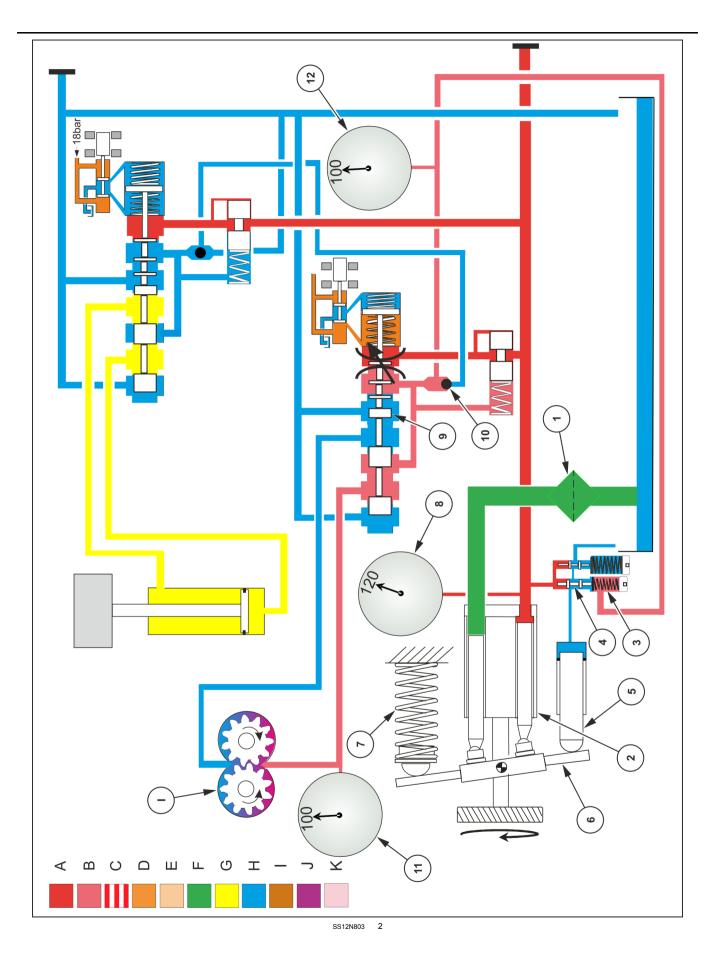




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Rear wheels - Install

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.

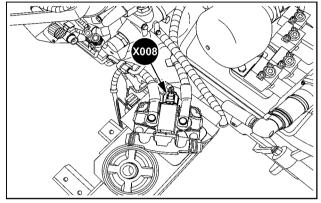
- 1. Install the rear wheels.
- 2. Tighten the nuts to 250 N·m (184 lb ft).
- 3. Remove the axle stands from under the final drive cases.

NOTE: If required, attach the lift rods to the lower links.

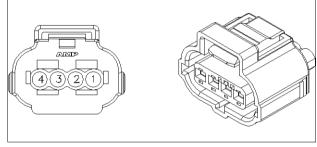
4. Remove the wooden wedges from between the front axle and the front support.

CONNECTOR X-008 - Battery isolator

	CONNECTOR X-008 - Battery isolator				
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME		
1		X-008 Battery isolator X-001 Cab main harness to engine harness 1	Wiring harnesses - Electrical schematic sheet 01 (55.100)		
2	EN-057FM (BK)	X-008 Battery isolator SP-057FK			
3	EN-057FL (BK)	X-008 Battery isolator SP-057FK			
4		X-001 Cab main harness to engine harness 1 X-008 Battery isolator			



SVIL13TR00703AB 17 Left-hand behind steps

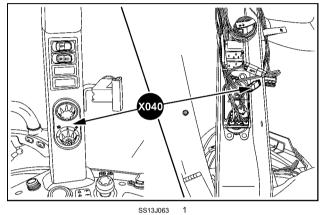


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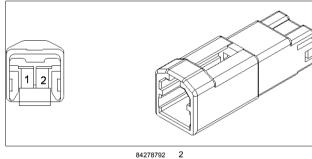
Wire connectors - Component diagram 04

CONNECTOR X-040 - Air-conditioning system – ON/OFF indicator light

	CONNECTOR X-040 - Air-conditioning system – ON/OFF indicator light				
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME		
1	RF-057TK (BK)	SP-057T ROOF GROUND LH1 X-040 Air-conditioning system – ON/OFF indicator light	Wiring harnesses - Electrical schematic sheet 17 (55.100)		
2	RF-9215C (BL)	X-040 Air-conditioning system – ON/OFF indicator light SP-9215			

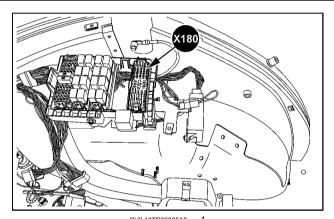


Right-hand B-pillar

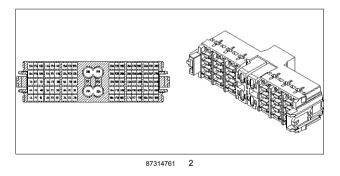


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	CONNECTOR X-180 - Fuse block (F-070 to F-101)				
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME		
11B	CM-010H (GN)	X-393 Cab main harness to front loader harness X-180 Fuse block (F-070 to F-101)	Wiring harnesses - Electrical schematic sheet 02 (55.100) Wiring harnesses - Electrical		
18A	CM-011 (GN)	X-120 Relay and diode block (K-007 to K-060 and V-040 to V-044) X-180 Fuse block (F-070 to F-101)	schematic sheet 04 (55.100) Wiring harnesses - Electrical schematic sheet 13 (55.100)		
18B	CM-011AA (GN)	X-180 Fuse block (F-070 to F-101) X-944 Cab main harness to Electronic Front Hitch (EFH) control unit harness	Wiring harnesses - Electrical schematic sheet 14 (55.100) Wiring harnesses - Electrical		
21A	CM-001DZ (BL)	X-180 Fuse block (F-070 to F-101) SP-001DM	schematic sheet 15 (55.100) Wiring harnesses - Electrical		
21B	CM-1052D (YE)	X-180 Fuse block (F-070 to F-101) X-091 Steering column multi-function lever	schematic sheet 16 (55.100) Wiring harnesses - Electrical schematic sheet 20 (55.100) Wiring herpesses - Electrical		
24A	CM-010K (GN)	X-180 Fuse block (F-070 to F-101) X-381 Cab main harness to hydraulic trailer brake harness	Wiring harnesses - Electrical schematic sheet 23 (55.100)		
24B	CM-071V (WH)	X-180 Fuse block (F-070 to F-101) SP-071			

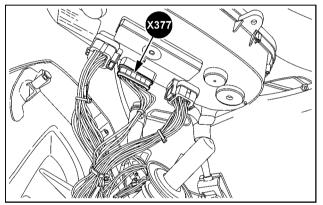


SVIL13TR00695AF 1 Cab left-hand side

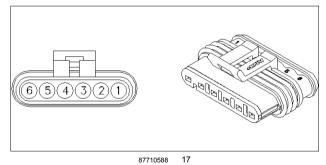


CONNECTOR X-377 -	Instrument	cluster	CN3
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	CONNECTOR X-377 - Instrument cluster CN3				
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME		
1	CM-2330 (VT)	X-404 Cab main harness to switch panel harness 1 X-377 Instrument cluster CN3	Wiring harnesses - Electrical schematic sheet 03 (55.100) Wiring harnesses - Electrical		
2	CM-2320 (VT)	X-404 Cab main harness to switch panel harness 1 X-377 Instrument cluster CN3	schematic sheet 04 (55.100)		
3	CM-2300 (VT)	X-404 Cab main harness to switch panel harness 1 X-377 Instrument cluster CN3			
4	CM-2310 (VT)	X-404 Cab main harness to switch panel harness 1 X-377 Instrument cluster CN3			
5	CM-8010 (BR)	X-377 Instrument cluster CN3 X-185 Air brake pressure sensor (signal)			
6	-	-			



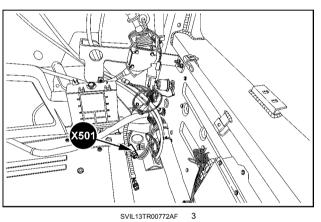
SVIL13TR00791AB 16 Behind instrument cluster



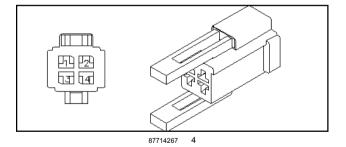
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CONNECTOR X-501 - Power socket 40 A – Cab outside

	CONNECTOR X-501 - Power socket 40 A – Cab outside			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME	
1	CM-010N (GN) IS-010N (GN)	X-501 Power socket 40 A – Cab outside X-130 Fuse block (F-001 to F-032) X-501 Power socket 40 A – Cab outside X-505 Implement Socket Rear	Wiring harnesses - Electrical schematic sheet 23 (55.100)	
2	CM-151M (GN) IS-151M (GN)	X-501 Power socket 40 A – Cab outside X-130 Fuse block (F-001 to F-032) X-501 Power socket 40 A – Cab outside X-505 Implement Socket Rear		
4	CM-057DG (BK) IS-057DG (BK)	SP-057D CAB GND X-501 Power socket 40 A – Cab outside X-501 Power socket 40 A – Cab outside X-505 Implement Socket Rear		



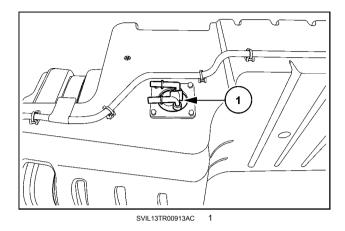
Right-hand bottom rear tractor cab

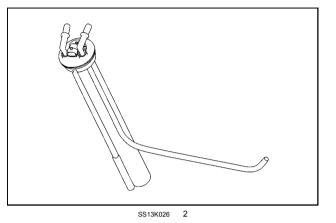


Fuel level sensor - Overview

Fuel level sensor (B-024)

The fuel level sensor (1) is located in the fuel tank.





Specifications		
Pin 1	Ground	
Pin 2	Signal	
Maximum current	70 mA	

Resistance test values		
full fuel tank	20.5 Ω +/- 2	
half-full fuel tank	160 Ω +/- 4	
empty fuel tank	276 Ω +/- 5	