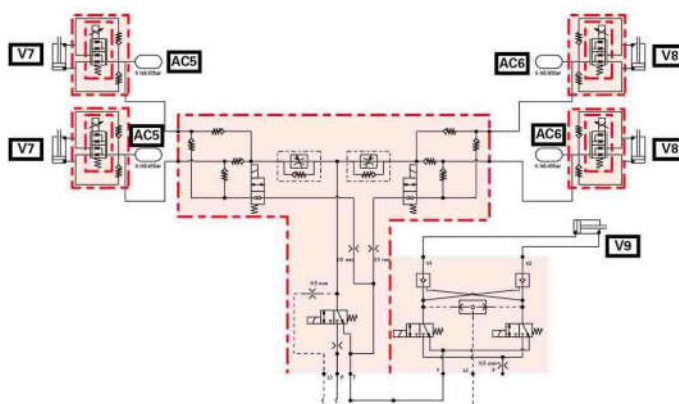
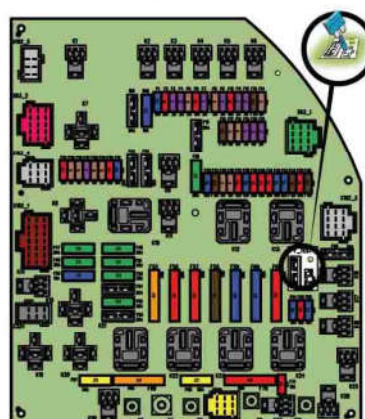


# Technician Service Book - MF 8700 series tractors

Schémas électriques et hydrauliques



CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

Steering	
Model	MF 8700
	110 mm x 60 mm (front axles 770/518 and 770/639)
Steering ram stroke	2 x 143,5 mm (front axles 770/517 and 770/638)
	2 x 146 mm (front axles 770/518 and 770/639)
Working pressure	175 bar ± 5 bar
Pressure relief valve adjustment pressure	175 bar ± 5 bar
Shock valve adjustment pressure	235 bar ± 10 bar
Oil recommended for steering	According to MF CMS M1145 specification

Linkage	
Model	MF 8700
Rear lift ram diameter	105 mm
Rear linkage travel	788 mm or 860 mm
Maximum lifting capacity at ball joints (rear)	12000 kg
Operating pressure (rear)	180 bar
3-point linkage category (rear)	3
Front lift ram diameter	100 mm x 50 mm
Front linkage travel	826 mm
Maximum lifting capacity at ball joints (front)	5000 kg
Operating pressure (front)	190 bar
3-point linkage category (front)	2 or 3

Live PTO	
Model	MF 8700
Number of selections possible for rear PTO	540E/1000 - 1000/1000E
Maximum permissible power 540E in 1"3/8 (21 splines)	100 hp
Maximum permissible power 540E in 1"3/4 (20 splines)	160 hp
Maximum permissible power 1000/1000E in 1"3/8 (6 and 21 splines)	180 hp
Maximum permissible power 1000/1000E in 1"3/4 (20 splines)	MF 8727: 239 hp MF 8730: 262 hp MF 8732: 283 hp MF 8735: 300 hp MF 8737: 300 hp MF 8740: 300 hp
Engine speed for 540E PTO	1577 rpm

## 1.6 Tightening torques, retaining compounds and sealing products

### 1.6.1 Retaining compounds and sealing products

#### General

The Loctite compounds mentioned in this manual are referred to by their industrial name.

For repair purposes, use their commercial names or the corresponding Massey Ferguson references listed in the table below.

Loctite product type	Operation
221	Standard threadlock
241	
242	Medium threadlock
270	Strong threadlock
496	Glue (for metals)
510	Standard sealant
518	Sealant for flat surfaces and paper seals
542	Thread sealant
549	Oil-resistant surface sealant
573	Surface sealant (engine, gearbox)
574	
577	Threaded union sealant (prevents loosening and leakages caused by vibrations)
603	Retainer for cylindrical assemblies (bearings, rings etc.)
638	Strong retainer for cylindrical assemblies (bearings, rings etc.)
648	Strong retainer for cylindrical assemblies (resistant to high temperatures)
706	Degreasing cleaner
5206	Metallic surface sealant (gearbox housing, engine sump)
5910	± Flexible surface sealant
5922	Sealant paste for ± flexible unions (sensor attachments etc.)
7100	Leakage detector for pneumatic systems

**NOTE:** Use the product "Form A gasket 2" when sealing between plastic material and cast iron or steel.

#### Application method for Loctite products

- Remove all traces of previous sealants and corrosion
  - mechanically: wire brush or emery cloth
  - chemically: "DECAPLOC 88" (Leave the product to take effect then scrape off and wipe clean).
- Degrease the components with dry solvent: preferably use "Super Solvant Sec LOCTITE 706".
- Allow the solvents to evaporate

[2] Metric unit

Torque		
Nm	x 0.7375	lbf ft
lbf ft	x 1.3558	Nm
daNm	x 7.3756	lbf ft
lbf ft	x 0.1356	daNm


Pressure		
bar	x 14.504	psi
psi	x 0.0690	bar


Flow rate		
l/min	x 0.2642	gal/min (US)
gal/min (US)	x 3.7853	l/min
l/hr	x 0.2642	gal/hr (US)
gal/hr (US)	x 3.7853	l/hr
l/ha	x 0.1069	gal/acre (US)
gal/acre (US)	x 9.3531	l/ha


Speed		
kph	x 0.6214	mph
mph	x 1.6093	kph

Weight		
g	x 0.03527	oz
oz	x 28.3495	g
kg	x 2.2046	lb
lb	x 0.4536	kg
t	x 1.1023	US ton
US ton	x 0.9072	t

Temperature		
°C	(°C x 1.8) + 32	°F
°F	(°F - 32)/1.8	°C

 <b>Alternator charge warning light</b>	
Activating condition(s) <ul style="list-style-type: none"> <li>Indicator light flashing and engine speed greater than 1000 rpm = one of the two alternators is not working</li> <li>Indicator light permanently on and engine speed greater than 1000 rpm = neither alternator is working</li> </ul>	
Cause(s)	Solution(s)
Connection problems in the load circuit	Check the connections in the alternator load circuit back to the battery.
Belt slack or damaged	Check the condition and tension of the belts.
Battery faulty	Check the condition of the batteries.
Alternator faulty	Check the condition of the alternators.

 <b>Auxiliary hydraulic oil temperature indicator light</b>	
Activating condition(s) <ul style="list-style-type: none"> <li>Indicator light permanently on = temperature above 95 °C - stop the engine</li> <li>Indicator light flashing = temperature sensor disconnected or short-circuited</li> </ul>	
Cause(s)	Solution(s)
Radiators blocked	Clean the radiators.
Unusual use of the tractor auxiliary hydraulics	Check operation and connections with the implement.
Sensor disconnected or short-circuited	Contact the dealer.

 <b>Auxiliary hydraulic oil filter blockage indicator light</b>	
Activating condition(s) <ul style="list-style-type: none"> <li>Indicator light permanently on = filter blocked and auxiliary hydraulic oil temperature above 30 °C</li> </ul>	
Cause(s)	Solution(s)
Filter blocked	Change the filter element.
Auxiliary hydraulic oil polluted	Check the quality of the oil.
Faulty auxiliary hydraulic oil filter blockage sensor	Contact the dealer.

- Degraded mode 1: The engine torque is limited to 75%.
- Final degraded mode: Once the maximum time delay for degraded mode 1 has been reached, the engine torque is limited to 50% and the engine speed is limited to idle speed.

For more information, refer to the following chapter: "Information about the various operating modes of the SCR Technology engine".

No.	FMI	Components concerned	Causes	Stand ard modes	modes SCR Techn ology
03	14		The number of injections is limited by the quantity balance of the high-pressure pump		
27	6	EGR valve	Overload of the EGR valve		
27	7	EGR valve	Difference between the current position and the commanded position		
27	11	EGR valve	The control is limited to avoid overheating		
27	12	EGR valve	Short circuit		
27	13	EGR valve	Mechanical error		X
29	3	Throttle sensor	Sensor above normal or in open circuit		
29	4	Throttle sensor	Sensor below normal		
51	3	Air dosing unit	Voltage above normal	1	
51	4	Air dosing unit	Voltage below normal	1	
51	7	Air dosing unit	Position deviation		
51	13	Air dosing unit	Calibration error	1	
91.	3	Throttle sensor	Throttle sensor 1 (IDLE) above normal or in open circuit		
91.	4	Throttle sensor	Throttle sensor 1 (IDLE) below normal		
94	3	Fuel filter pressure sensor	Fuel filter pressure sensor voltage above normal or open circuit	1	
94	4	Fuel filter pressure sensor	Fuel filter pressure sensor voltage below normal	1	
94	16	Fuel filter pressure sensor	Fuel filter pressure ABOVE NORMAL	1	
94	18	Fuel filter pressure sensor	Fuel filter pressure BELOW NORMAL	1	
94	31	Fuel filter pressure sensor	Pressure value outside the range, ALARM	3	
97	31	Water sensor	Water in fuel	2	
100	1	Oil pressure sensor	Oil pressure LOW, ALARM		
100	3	Oil pressure sensor	Oil pressure sensor voltage above normal or open circuit	1	

No.	FMI	Components concerned	Causes	Stand ard modes	mod es SCR Techn ology
4346	31	preheater pressure line DEF or AdBlue™	Excessive temperature		
4356	5	module relay DEF or AdBlue™	Open circuit		
4360	2	DOC inlet temperature sensor	Incorrect temperature value		X
4360	3	DOC inlet temperature sensor	Voltage above normal or open circuit		X
4360	4	DOC inlet temperature sensor	Voltage below normal		X
4360	10	DOC inlet temperature sensor	Temperature value inconsistent		
4363	2	Exhaust outlet temperature sensor	Incorrect temperature value		X
4363	3	Exhaust outlet temperature sensor	Voltage above normal or open circuit		X
4363	4	Exhaust outlet temperature sensor	Voltage below normal		X
4363	10	Exhaust outlet temperature sensor	Temperature value inconsistent		
4374	8	pump motor DEF or AdBlue™	Speed fault		X
4374	14	pump motor DEF or AdBlue™	Permanent speed fault		X
4374	31	pump motor DEF or AdBlue™	Not available		X
4375	3	pump motor DEF or AdBlue™	Short circuit to +12 V		X
4375	4	pump motor DEF or AdBlue™	Short circuit to earth (-)		X
4375	5	pump motor DEF or AdBlue™	Current below normal or open circuit		X
4375	31	pump motor DEF or AdBlue™	Excessive temperature		X
4376	3	Lower side pump control valve	Short circuit to +12 V		X
4376	4	Lower side pump control valve	Shortcut to Ground		X
4376	5	Lower side pump control valve	Current below normal or open circuit		X
4376	31	Lower side pump control valve	Excessive temperature		X
4753	3	DOC outlet temperature sensor	Voltage above normal or open circuit		
4753	4	DOC outlet temperature sensor	Voltage below normal		
4753	10	DOC outlet temperature sensor	Temperature value inconsistent		
4792	14	System DEF or AdBlue™	High catalyst temperature		
5020	3	Intake temperature sensor	Voltage above normal or open circuit		
5020	4	Intake temperature sensor	Voltage below normal		
5025	31	NOx sensor before DOC	Calibration value outside the reference values		X

No.	Components concerned	Causes	Consequences
04.0X.85	<b>X25</b> - Engine speed sensor	Signal outside the reference values	Operation possible in limp home mode
04.0X.86	<b>X9</b> - Transmission oil high pressure sensor 1 / <b>X34</b> - Transmission oil high pressure sensor 2	Signal outside the reference values	The Dyna-TM function is disabled
04.0X.89	<b>X19</b> - Transmission hydraulic oil temperature sensor	Signal outside the reference values	
04.0X.8A	<b>X68</b> - Clutch pedal sensor	Inconsistency between the bottom-of-clutch pedal (BOC) signal and the start-up safety signal	
04.0X.8F	<b>X174</b> - SRC 14-34 main controller (96-pin) / <b>X598</b> - SRC 14-34 main controller (58-pin)	The circumference of the configured wheel is too small or too large.	
04.0X.94		The CAN communication between the different controllers is faulty	
04.0X.A1	<b>X18</b> - Transmission control module	The angle of rotation is limited, but not by the speed limiting solenoid valve	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>
04.0X.A2	<b>X18</b> - Transmission control module / <b>X174</b> - SRC 14-34 main controller (96-pin)	CAN network control interrupted between the module and the controller	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>
04.0X.A3	<b>X18</b> - Transmission control module	The increment sensor signal (module internal position sensor) is interrupted or illogical	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>
04.0X.A4	<b>X174</b> - SRC 14-34 main controller (96-pin)	The signal from the controller is interrupted or illogical	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>
04.0X.A5	<b>X18</b> - Transmission control module	The module reference output (position "0") was not found within 10 seconds of starting the tractor	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>
04.0X.A6	<b>X18</b> - Transmission control module	The module reference output (position "0") was not found during tractor operation	<ul style="list-style-type: none"> <li>• Operation possible in limp home mode</li> <li>• The Dyna-TM function is disabled</li> </ul>

No.	Components concerned	Causes	Consequences
18.0X.3A	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	No response from the valve	
18.0X.3B	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	The valve does not return to the neutral position during shutdown	
18.0X.3C	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	Absence of calibration	
18.0X.40		Warning message when trying to activate the Auto-Guide™, or when the Auto-Guide™ cannot be activated within 5 seconds	
18.0X.4A	<b>X978</b> - Auto-Guide receiver antenna / <b>X174</b> - SRC 14-34 main controller (96-pin)/ <b>X237</b> - Electrohydraulic Orbitrol (black connector)	A fault is detected on the CAN bus communication	
18.0X.5C	<b>X174</b> - SRC 14-34 main controller (96-pin)	Controller parameters in the EEPROM are not valid	
18.0X.5D	<b>X174</b> - SRC 14-34 main controller (96-pin)	The stored values are not valid	
18.0X.66	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	A fault is detected on the valve (flow rate measurement)	
18.0X.69		The power supply voltage is greater than 32 volts	
18.0X.6A		The power supply voltage is less than 10 volts	
18.0X.6B	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	The valve is unable to reach the neutral position	
18.0X.6C	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	The valve is not in the neutral position at start-up	
18.0X.6D	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	The valve position is greater than the reference position	
18.0X.7F	<b>X237</b> - Electrohydraulic Orbitrol (black connector)	A fault is detected on the Auto-Guide™ system or accelerated steering system SpeedSteer	The Auto-Guide™ system or SpeedSteer system is disabled
18.0X.80	<b>X237</b> - Electrohydraulic Orbitrol (black connector)/ <b>X235</b> - Front axle steering sensor (WAS sensor)	Inconsistency between valve power supply signal and steering sensor signal	The Auto-Guide™ system or SpeedSteer system is disabled
18.0X.81	<b>X210</b> - Orbitrol steering sensor (SASA sensor)/ <b>X235</b> - Front axle steering sensor (WAS sensor)	Inconsistency between <b>X210</b> - Orbitrol steering sensor (SASA sensor) signal and signal <b>X235</b> - Front axle steering sensor (WAS sensor)	The Auto-Guide™ system or SpeedSteer system is disabled

---

### 2.1.25 Front linkage error codes

---

No.	Components concerned	Causes
09.0X.00	<b>X279</b> - Front linkage position sensor	Front linkage is not calibrated

Number	Amperage	Size	Protected function
F56	5 A	Small	+BAT <b>X152</b> - Start switch
F57	15 A	Small	+ APC <b>X598</b> - SRC 14-34 main controller (58-pin)
F58	10 A	Small	+ APC <b>X153</b> - Non-Isobus implement connector
F59	10 A	Small	Not used
F60	7.5 A	Small	+ APC <ul style="list-style-type: none"> <li>• <b>X183</b> - Diagnostics connector</li> <li>• <b>X184</b> - Diagnostics connector</li> <li>• <b>X594</b> - unit AgCommand™</li> <li>• <b>X952</b> - Additional controller</li> </ul>
F61	3 A	Small	+ APC <ul style="list-style-type: none"> <li>• <b>X194</b> - D + alternator 1</li> <li>• <b>X195</b> - D + alternator 2</li> </ul>
F62	5 A	Small	K15 relay power circuit supplying +APC to <b>X216</b> - Reversing light and <b>X225</b> - Trailer connection (reversing light)
F63	10 A	Small	K26 relay power circuit supplying +APC to <b>X252</b> - Air conditioning pressure switch
F64	10 A	Small	+ APC <ul style="list-style-type: none"> <li>• <b>X272</b> - Front accessories connection socket (+12 V APC)</li> <li>• <b>X998</b> - Relay holder for the ABS connector kit control circuit</li> </ul>
F65	10 A	Small	+ APC <ul style="list-style-type: none"> <li>• <b>X248</b> - Right- and left-hand electric rear-view mirror adjustment switch</li> <li>• <b>X249</b> - External rear-view mirror defroster switch</li> </ul>
SH2	25 A	Average	High beam lamps on grille (present only without the high beam lamps/low beam lamps on hand rails option)
SH3	15A	Average	Low beam lamps on grille (present only without the high beam lamps/low beam lamps on hand rails option)
K1			Relay for front windscreen wiper control unit and front windscreen wiper motor
K2			Not used
K3			High beam lamps on hand rail relay
K4			Low beam lamps on hand rail relay
K5			Earth relay for the turbo-clutch solenoid valve
K6			Relay supplying the +ACC for the tractor
K7			Relay for function 4 switch on Multi Function Joystick

1. Press the switch (B) to execute an emergency cut-off of the battery isolator.

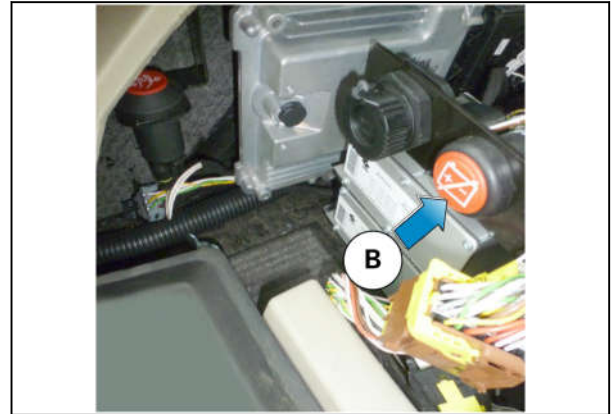


Fig. 8

- X196** - In-line fuse (225 A)
- X197** - Diesel fuel gage
- X198** - Pneumatic trailer brake sensor
- X199** - Work light on left-hand step
- X200** - Work light on right-hand step
- X201** - Engine harness earth
- X202** - Front accessory connection socket harness/front function harness junction
- X203** - Engine harness/front headlights harness junction
- X204** - Cooling unit harness/engine harness junction
- X205** - Front axle harness/engine harness junction
- X206** - Sensor detecting water in the diesel fuel
- X207** - Pneumatic seat adjustment control
- X209** - Switch for lowering the rear linkage (pickup hitch)
- X210** - Orbitrol steering sensor (SASA sensor)
- X211** - Rear Dual Control connector
- X212** - Instrument panel harness/armrest harness junction
- X213** - Power socket for additional heating
- X214** - Multifunction armrest
- X215** - Trailer connection (right-hand side light)
- X216** - Reversing light
- X217** - Cab Isobus harness/external Isobus harness junction
- X218** - External Isobus implement connector
- X219** - Isobus CAN connector
- X220** - Trailer connection (left-hand side light)
- X221** - Trailer connection (right-hand direction indicator)
- X222** - Trailer connection (left-hand direction indicator)
- X223** - Trailer connection (brake lights)
- X224** - Trailer connection (earth)
- X225** - Trailer connection (reversing light)
- X226** - Trailer connection harness earth
- X227** - Console harness/cab transmission harness junction
- X228** - Front linkage single/double-acting function indicator light
- X229** - 120-ohm CAN 1 resistor (cab transmission harness)
- X230** - 120-ohm CAN 3 resistor (cab transmission harness)
- X231** - 120-ohm CAN 4 resistor (cab transmission harness)
- X232** - 120-ohm CAN 2 resistor (cab transmission harness)
- X233** - Cab transmission harness/Isobus harness junction
- X234** - 120-ohm CAN ATC resistor

- X612** - Position switch for the creeper range (snail) lever (supply)
- X613** - Connection between the cab transmission harness and the cab linkage control harness
- X614** - Connection between the cab transmission harness and the cab lighting harness
- X615** - Connection between the cab transmission harness and the cab lighting harness
- X616** - DEF or AdBlue™ tank gage with quality sensor
- X617** - Position switch for the economy PTO lever (supply)
- X618** - Parking brake sensor
- X619** - Road mode/field mode switch
- X620** - + speed switch
- X621** - - speed switch
- X622** - Confirmation switch
- X623** - Connection between the cab exterior transmission harness and the engine harness
- X624** - Connection between the cab exterior transmission harness and the cab exterior lighting harness
- X625** - Rear linkage lowering switch on the right-hand fender
- X626** - Rear linkage lowering switch on the left-hand fender
- X627** - Connection between the cab exterior lighting harness and the exterior cab suspension harness
- X628** - Connection between the cab exterior lighting harness and the PTO speed harness
- X629** - Left-hand brake wear sensor
- X630** - Right-hand brake wear sensor
- X631** - Terminal Bias Connexion connector Auto-Guide™
- X632** - Dual relay Isobus
- X633** - Cab harness/ harness connection Auto-Guide™
- X634** - CAN extension
- X635** - Auto-hitch extension switch
- X636** - Auto-hitch retraction switch
- X637** - MEAS sensor
- X638** - Connection between the fuse holder board and the hazard warning light unit
- X639** - Connection between the fuse holder board and the cab interior transmission harness
- X640** - Connection between the fuse holder board and the pillar harness
- X641** - Connection between the fuse holder board and the cab interior lighting harness
- X642** - Connection between the fuse holder board and the instrument panel harness
- X643** - Right-hand marker lights
- X644** - Left-hand marker lights
- X645** - lever shunt Power Control
- X646** - Battery isolator switch
- X647** - Battery isolator harness/cab interior transmission harness connection
- X648** - Front left-hand headlamp on lower section
- X649** - Front right-hand headlamp on lower section

- **X465** - Battery positive terminal contact
- (2) On the starter
- **X341** - Starter supply
- (3) On the left-hand alternator
- **X192** - B + alternator 1

- (4) On the right-hand alternator
- **X193** - B + alternator 2
- (5) On the fuse board
- **X117** - Isobus +12 V battery power socket
  - **X129** - Fuse box +12 V battery connection
  - **X362** - Fuse box (+12 V battery)

**4.1.5.2 EFD00000\_10 - Battery earth points**  
EFD00000\_10 - Battery earth points

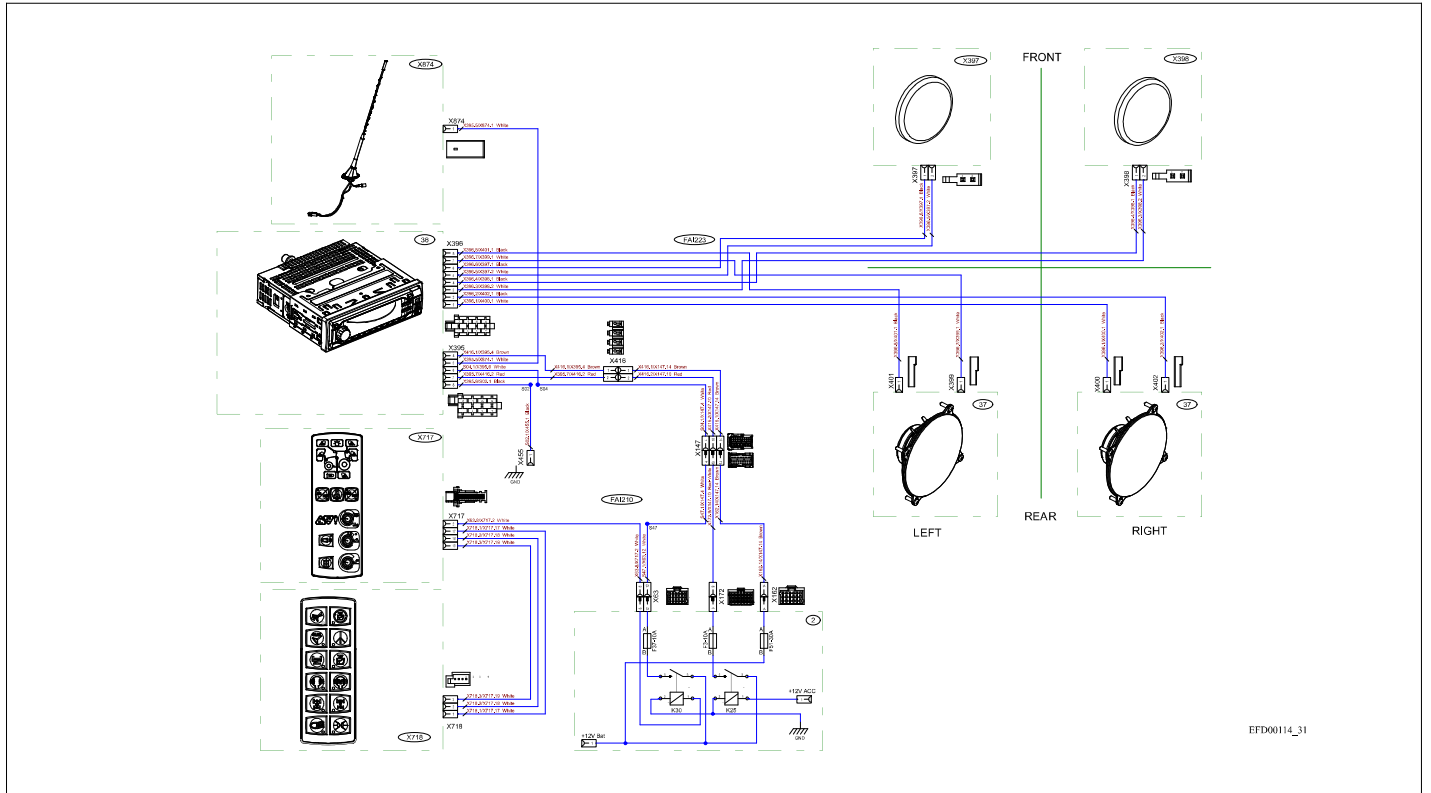


Fig. 10

**4.1.5.11 EFD00116\_13 - Hydraulic active suspended cab**  
**EFD00116\_13 - Hydraulic active suspended cab**

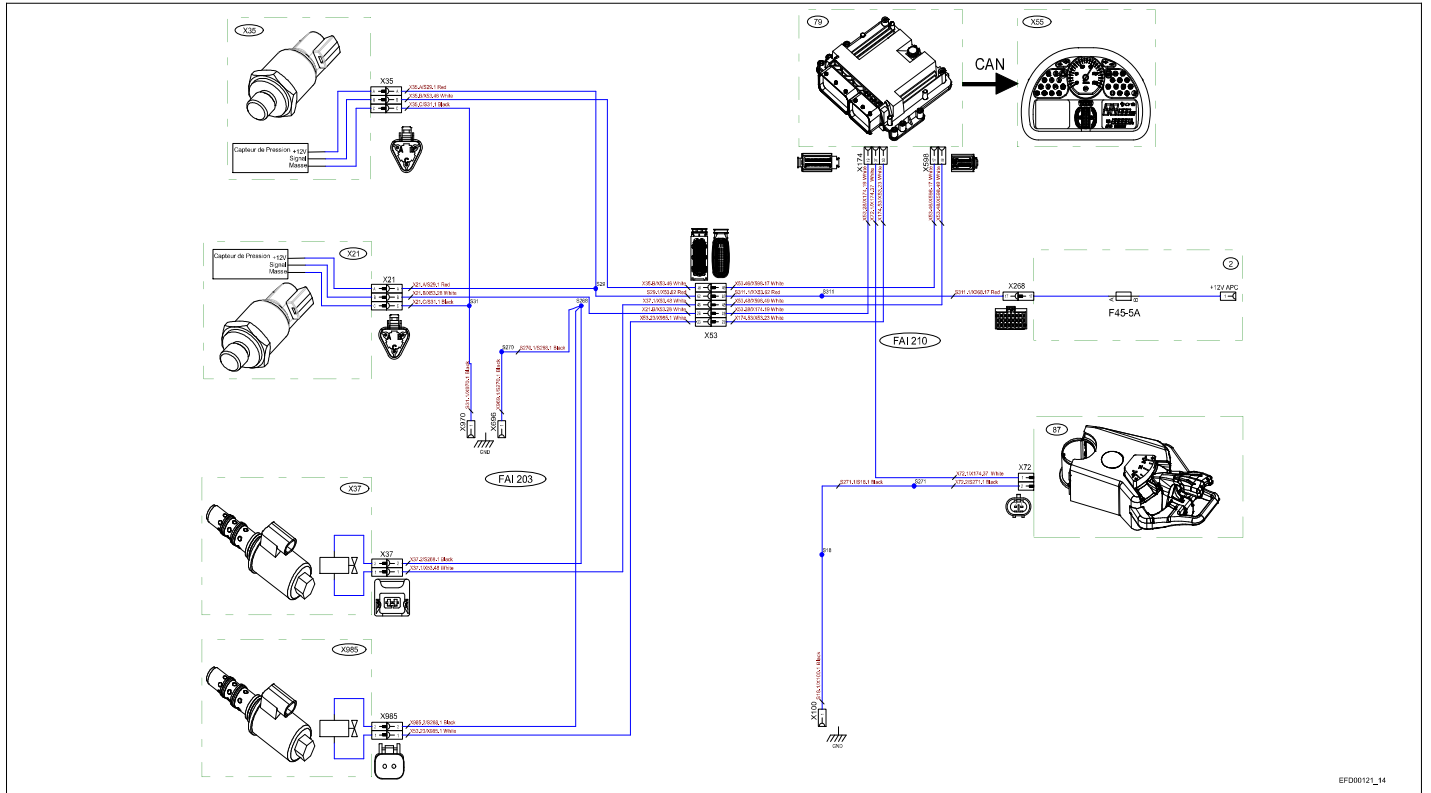
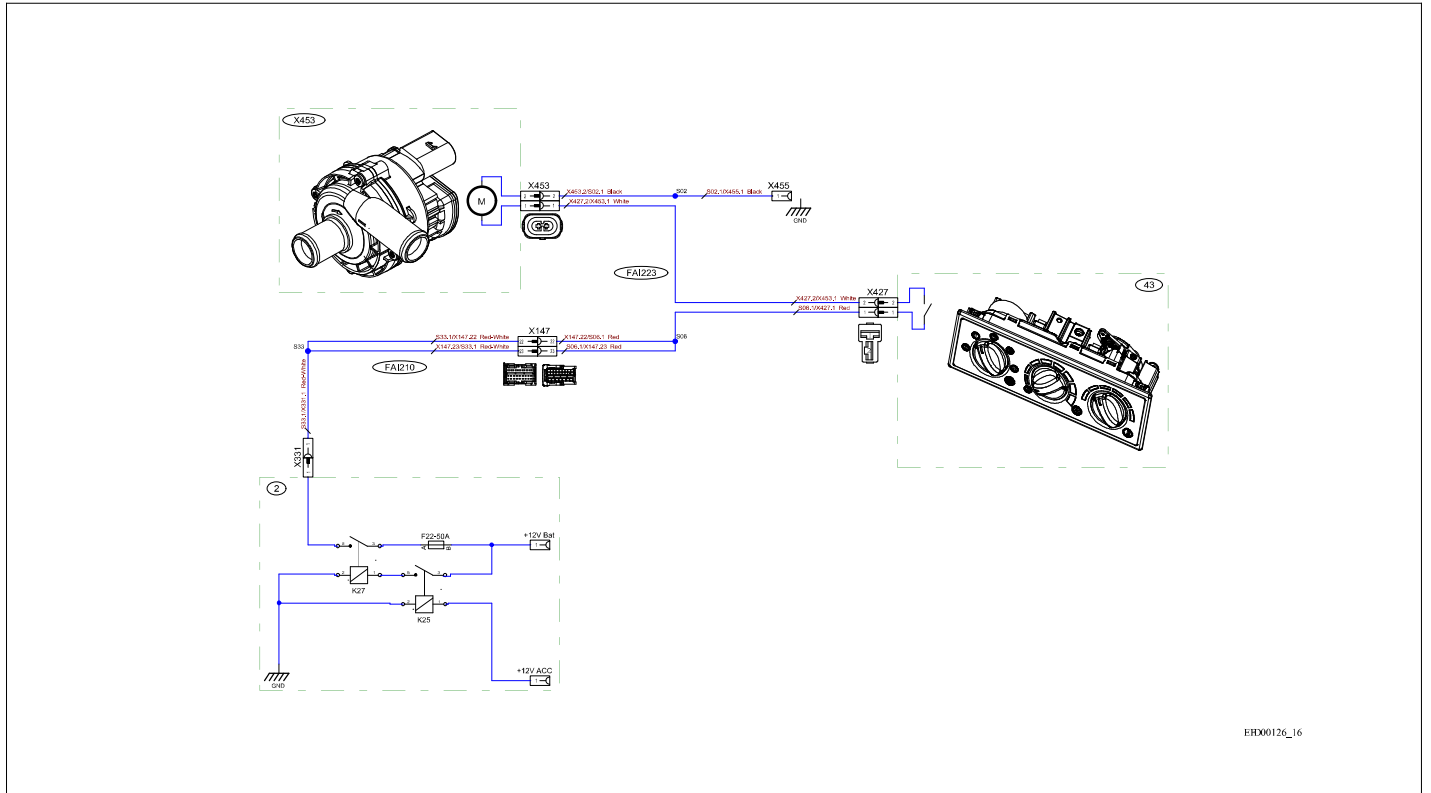


Fig. 20

4.1.5.21 EFD00122\_10 - Fuel gage  
EFD00122\_10 - Fuel gage



EFD00126\_16

Fig. 30

**4.1.5.31 EFD00128\_22 - Cab current socket**  
**EFD00128\_22 - Cab current socket**

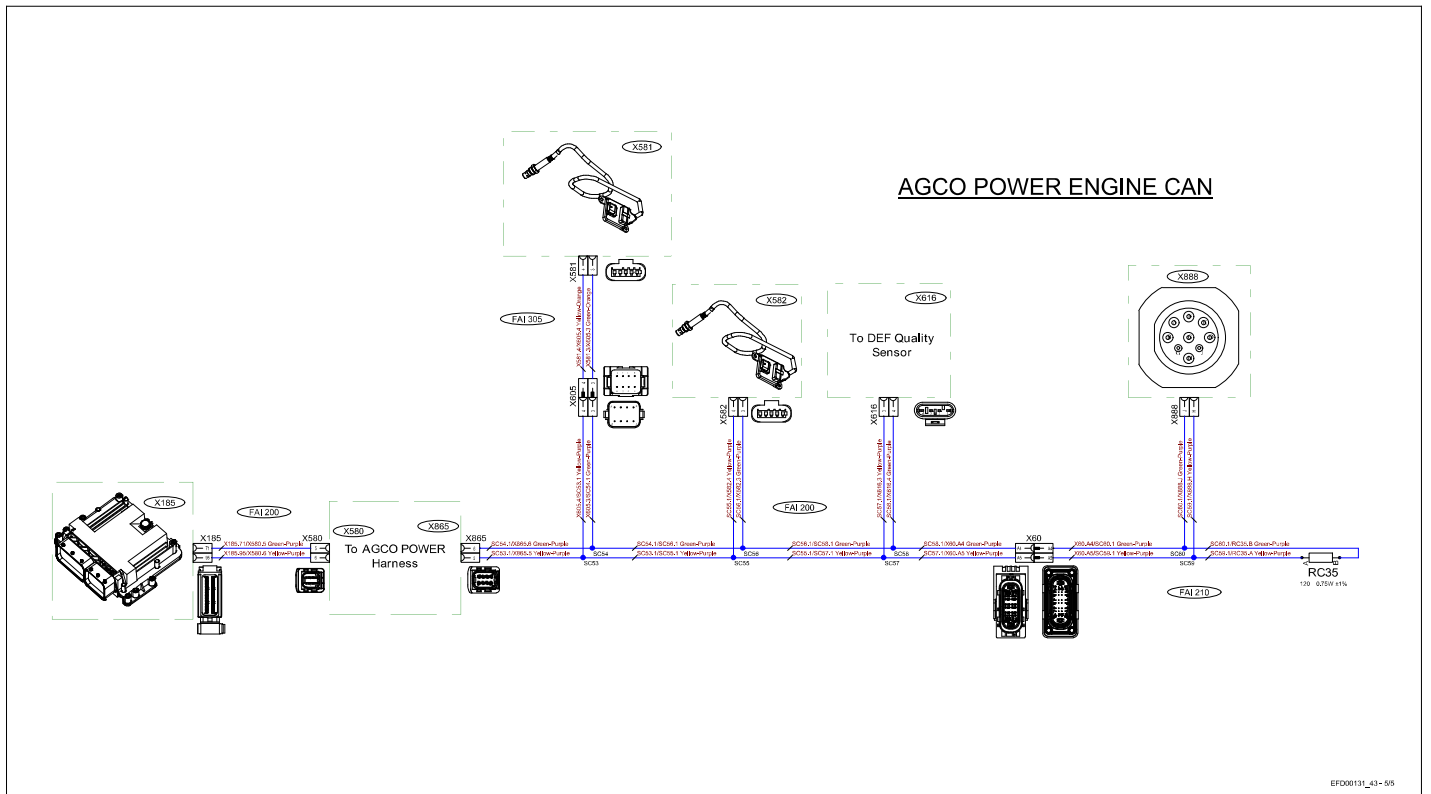


Fig. 39

**4.1.5.40 EFD00132\_9 - Electric rear-view mirrors**  
**EFD00132\_9 - Electric rear-view mirrors**

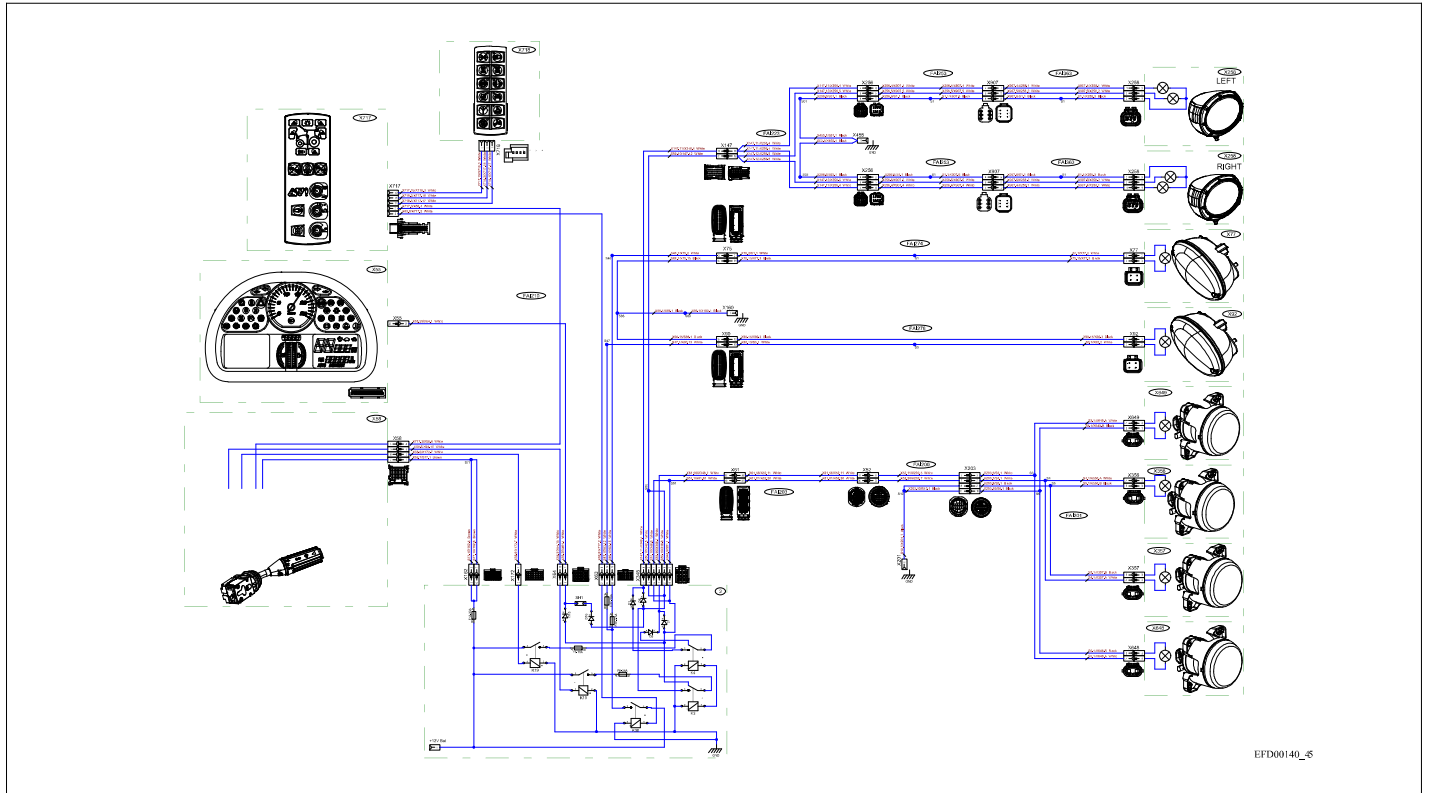
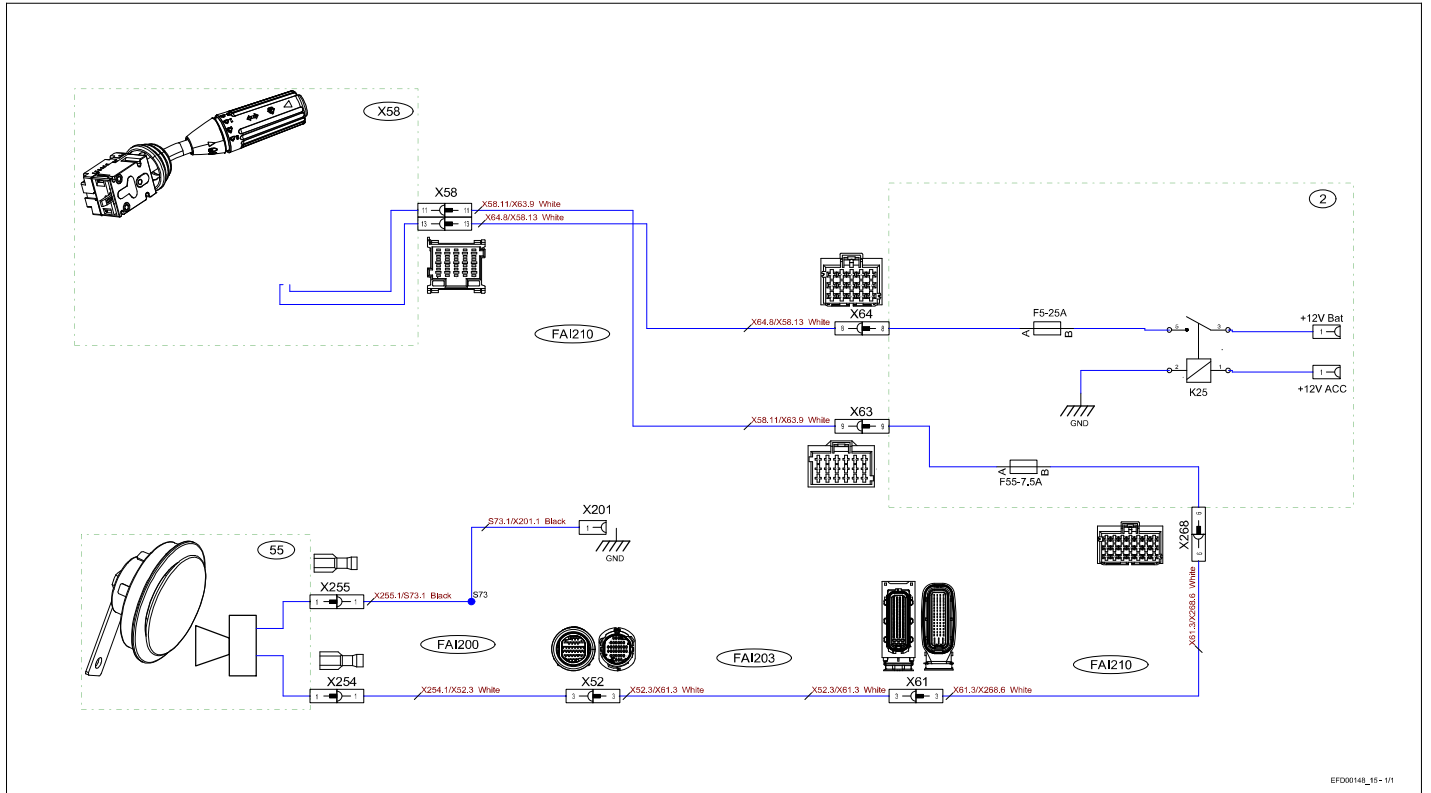


Fig. 49

**4.1.5.50 EFD00141\_98 - EAME work lights**  
EFD00141\_98 - EAME work lights



EFD00148\_16 - 111

Fig. 59

**4.1.5.60 EFD00149\_21 - Battery charge + jump start**  
**EFD00149\_21 - Battery charge + jump start**

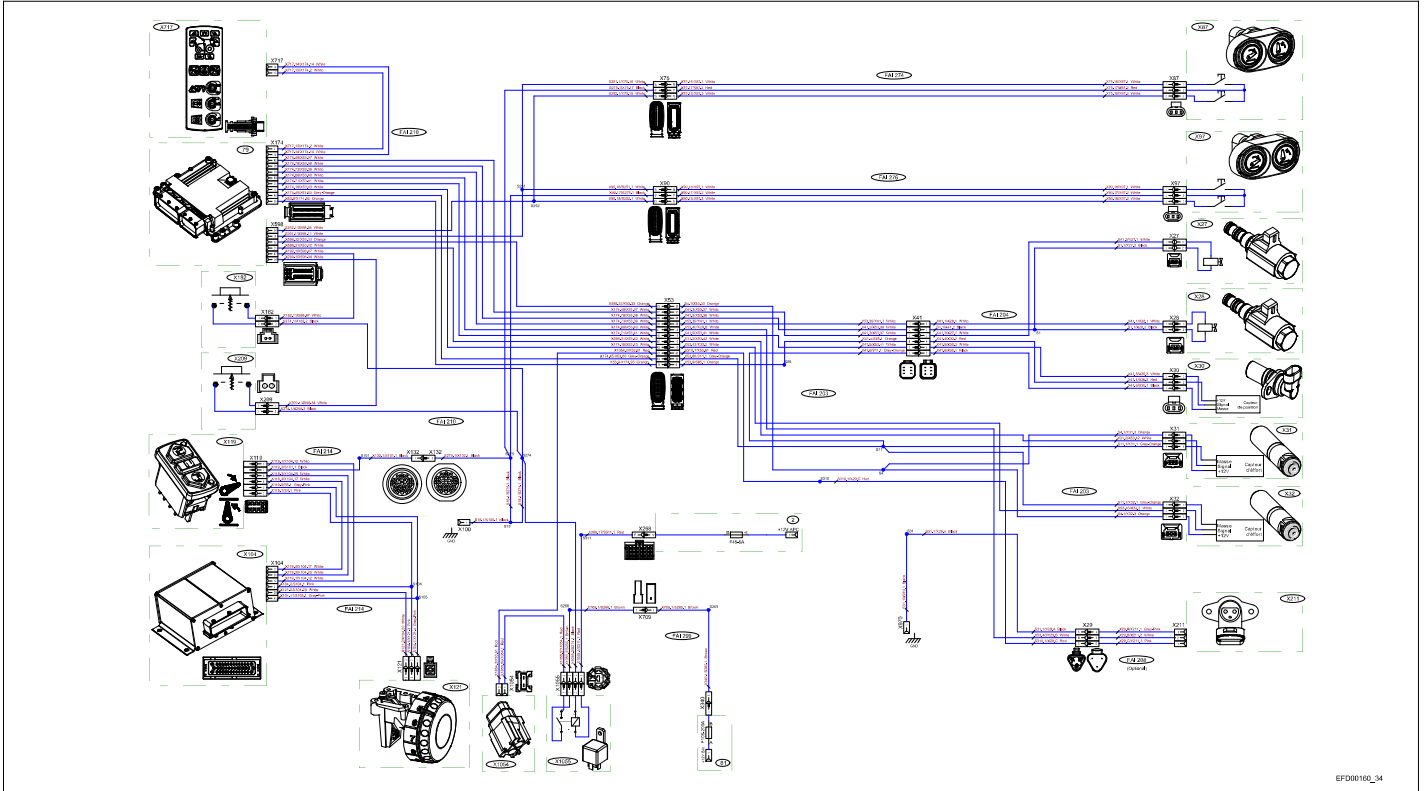


Fig. 69

**4.1.5.70 EFD00161\_14 - Front linkage**  
EFD00161\_14 - Front linkage

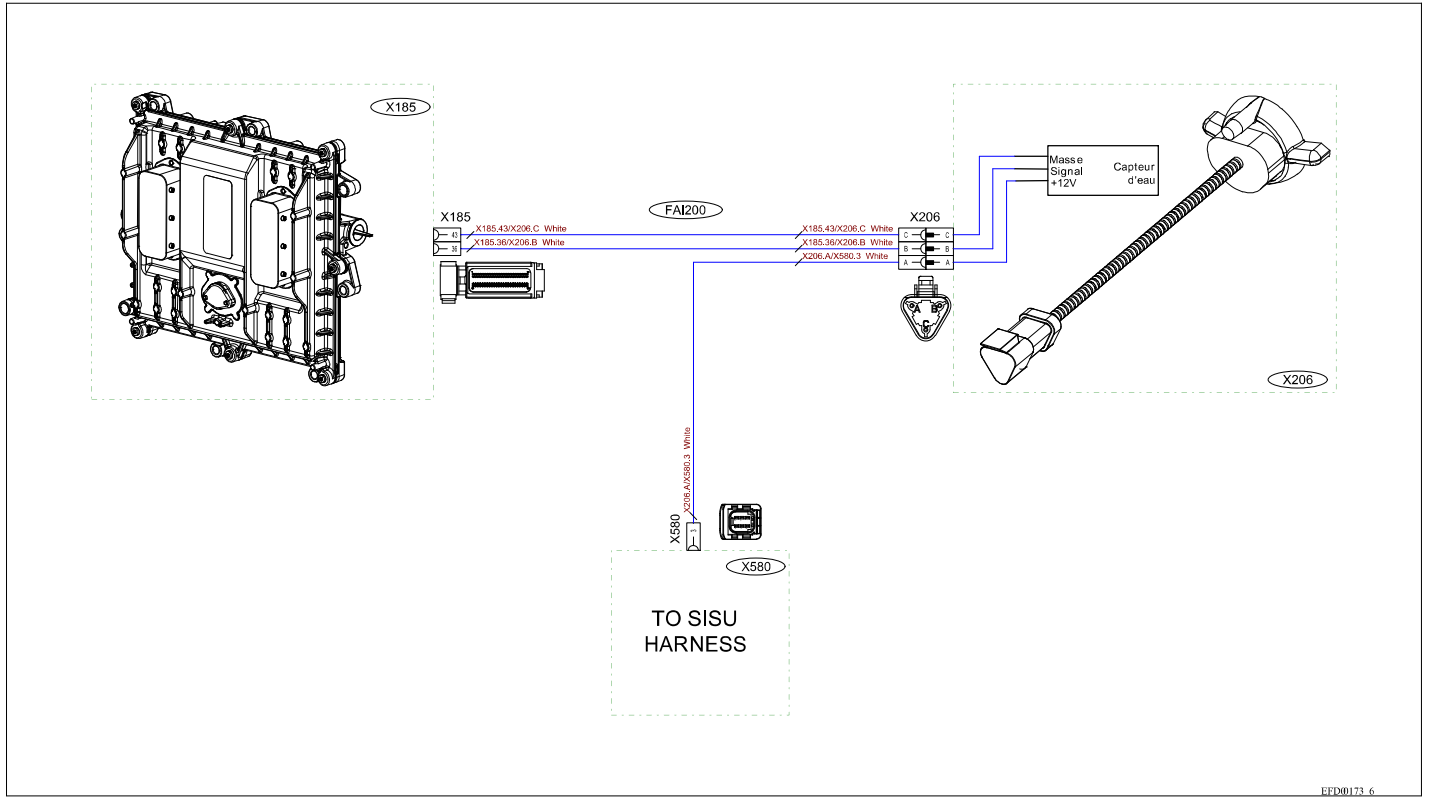


Fig. 79

EFD00173\_6

**4.1.5.80 EFD00174\_16 - Air brake**  
**EFD00174\_16 - Air brake**

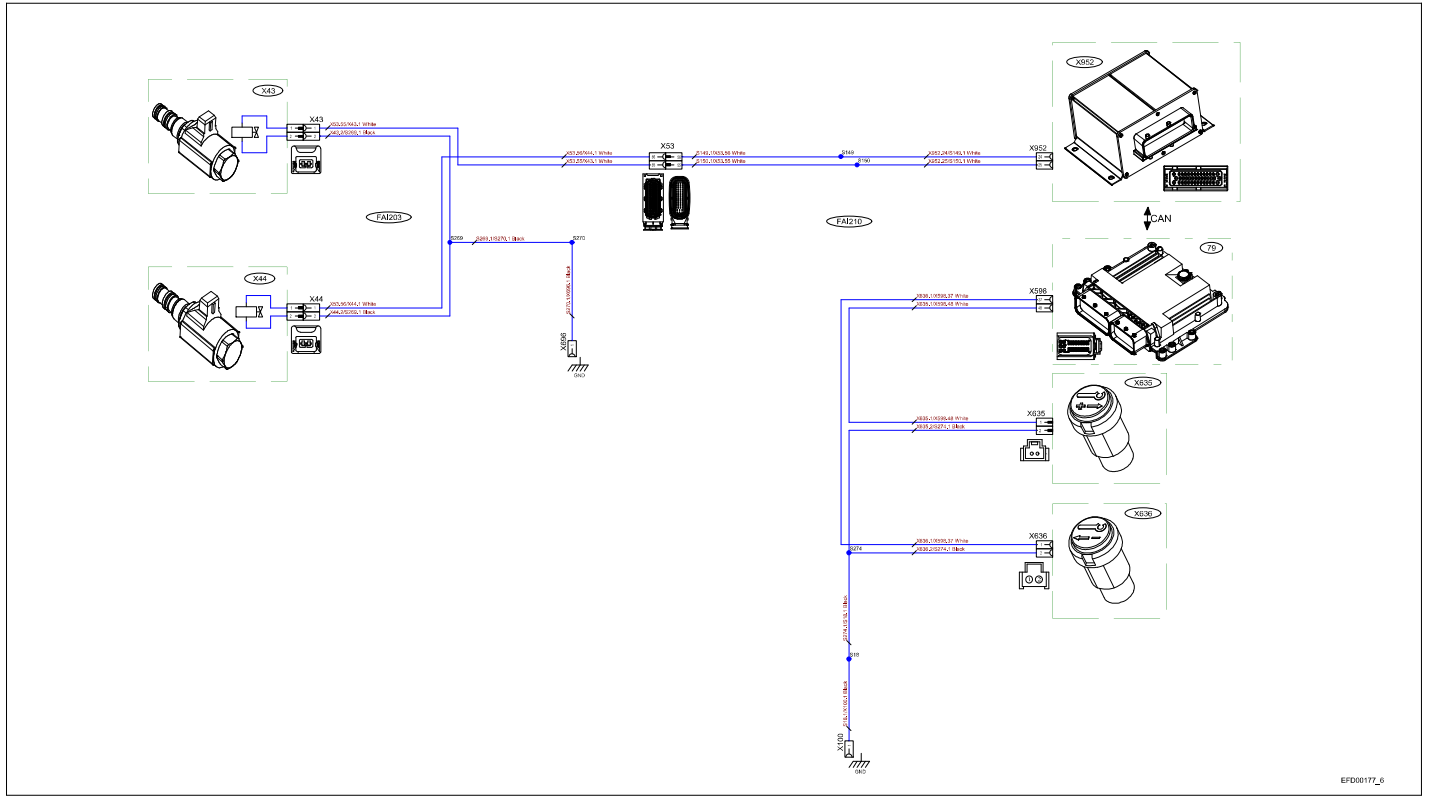


Fig. 89

4.1.5.90 EFD00178\_7 - Steering SpeedSteer  
EFD00178\_7 - Steering SpeedSteer

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- FAI236** - Start-up harness
- FAI237** - +12 APC fuse box harness
- FAI238** - +12 APC instrument panel harness
- FAI239** - Permanent +12 V supply harness
- FAI240** - +12 V permanent fuse box harness
- FAI241** - Automatic air conditioning adapter harness
- FAI242** - High beam lamps on hand rail adapter harness
- FAI243** - Circuit breaker harness
- FAI244** - Linkage external controls extension harness
- FAI245** - Left-hand linkage external controls harness
- FAI246** - Right-hand linkage external controls harness
- FAI247** - Power take-off shunt harness
- FAI248** - Linkage external controls harness
- FAI249** - Suspended front axle harness
- FAI250** - Engine harness
- FAI251** - Parking brake harness
- FAI252** - +12 V battery harness
- FAI253** - Hand rail harness
- FAI254** - Windscreen wiper harness
- FAI255** - 1-speed windscreen wiper harness
- FAI256** - High-visibility roof heating harness
- FAI257** - High-visibility roof heating harness
- FAI258** - Roof earth harness
- FAI259** - Platform rotary beacon harness
- FAI260** - Cooling unit harness
- FAI261** - Isobus harness
- FAI262** - Auto-Guide™ engine harness
- FAI263** - Auto-Guide™ cab adapter harness
- FAI264** - Auto-Guide™ roof adapter harness
- FAI265** - Air brake harness
- FAI266** - Air brake shunt harness
- FAI267** - Console harness
- FAI268** - Front function harness
- FAI269** - Clutch pedal harness
- FAI270** - Front power take-off harness
- FAI271** - Cab electric rear-view mirror harness
- FAI272** - Suspended cab harness
- FAI273** - Front linkage harness



5.1.2.18 FAI219 - Cab interior current socket harness - 4290574\_2/2

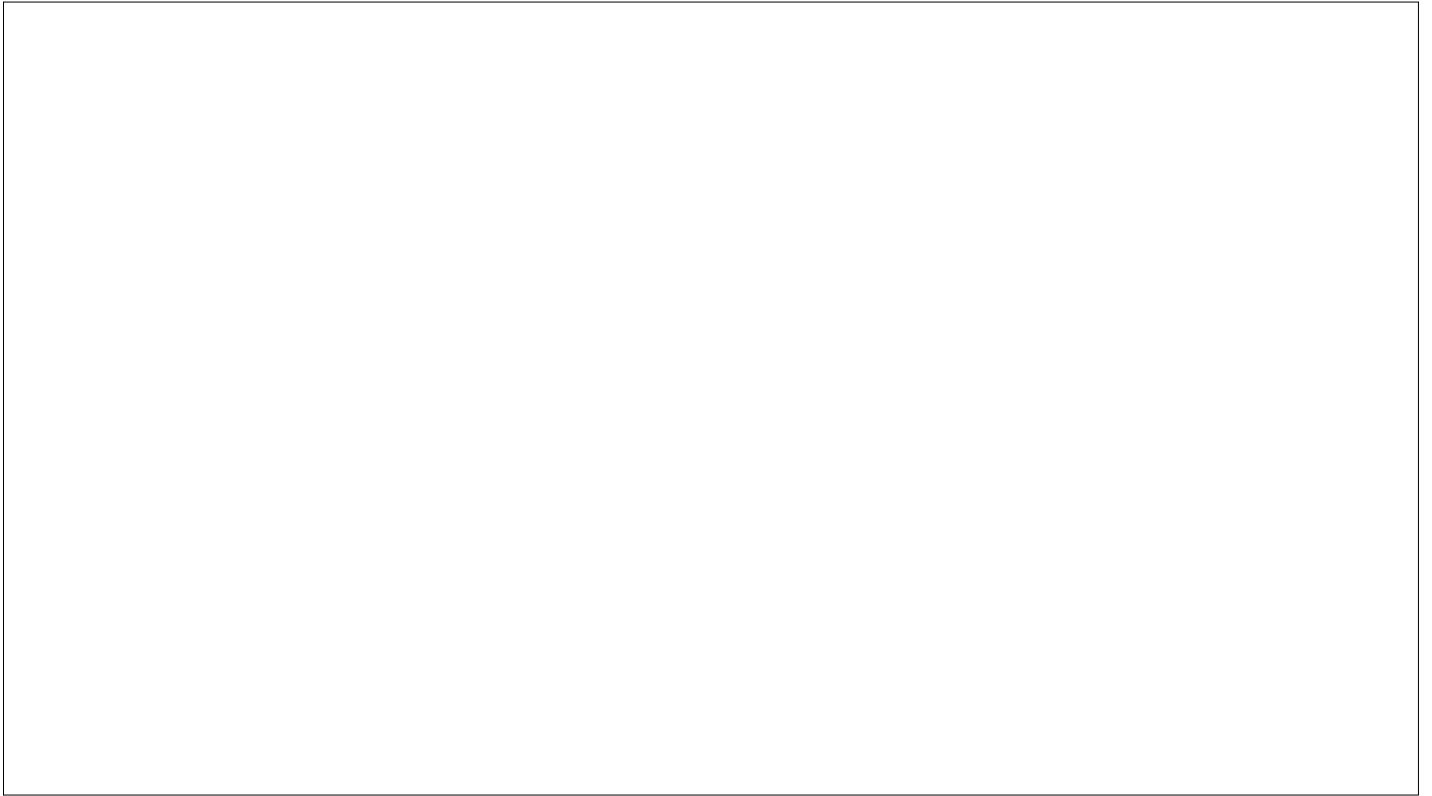


Fig. 18



5.1.2.38 FAI253 - Hand rail harness - ACW039630

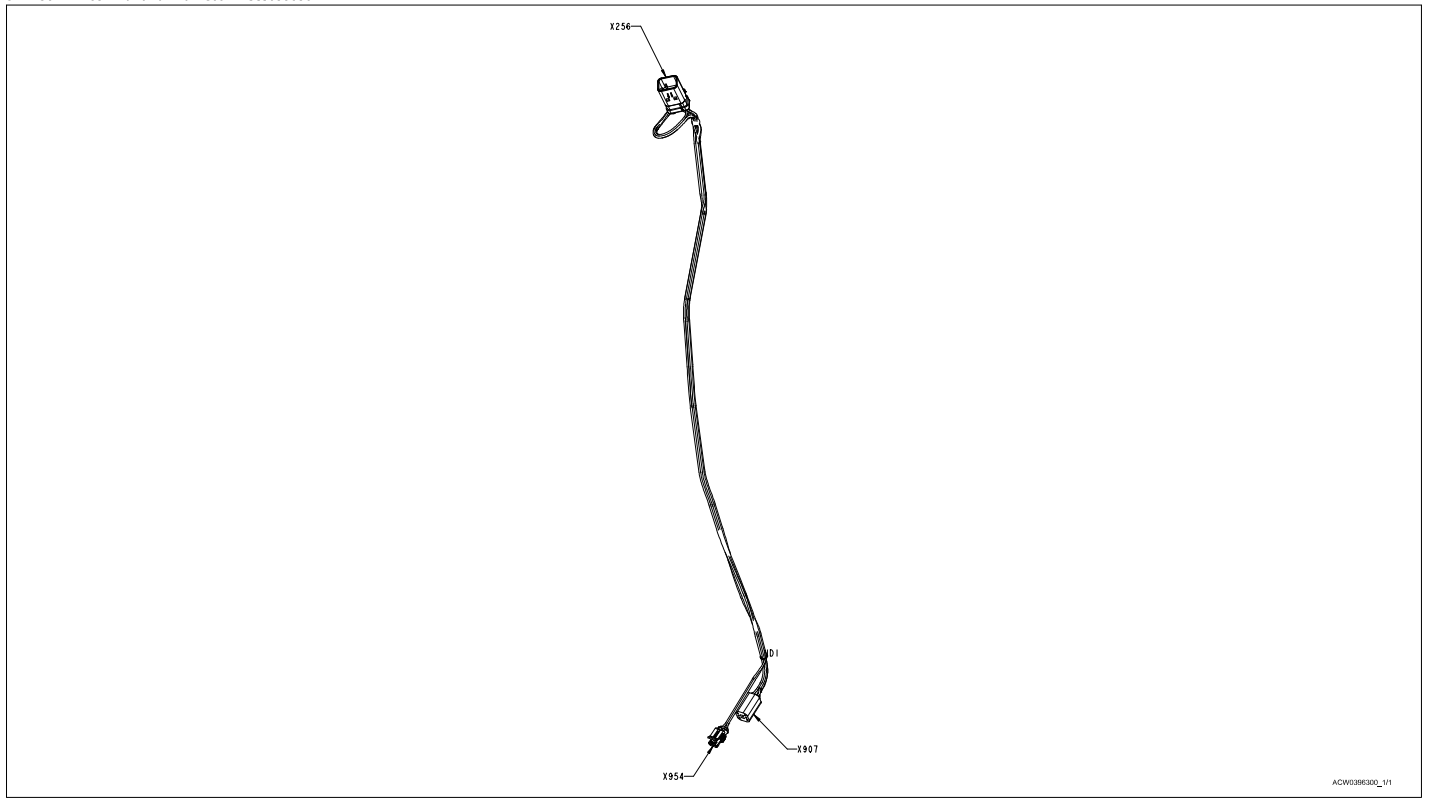


Fig. 38

ACW039630\_111



5.1.2.58 FAI275 - Trailer connector harness NA - 4290011\_2/2

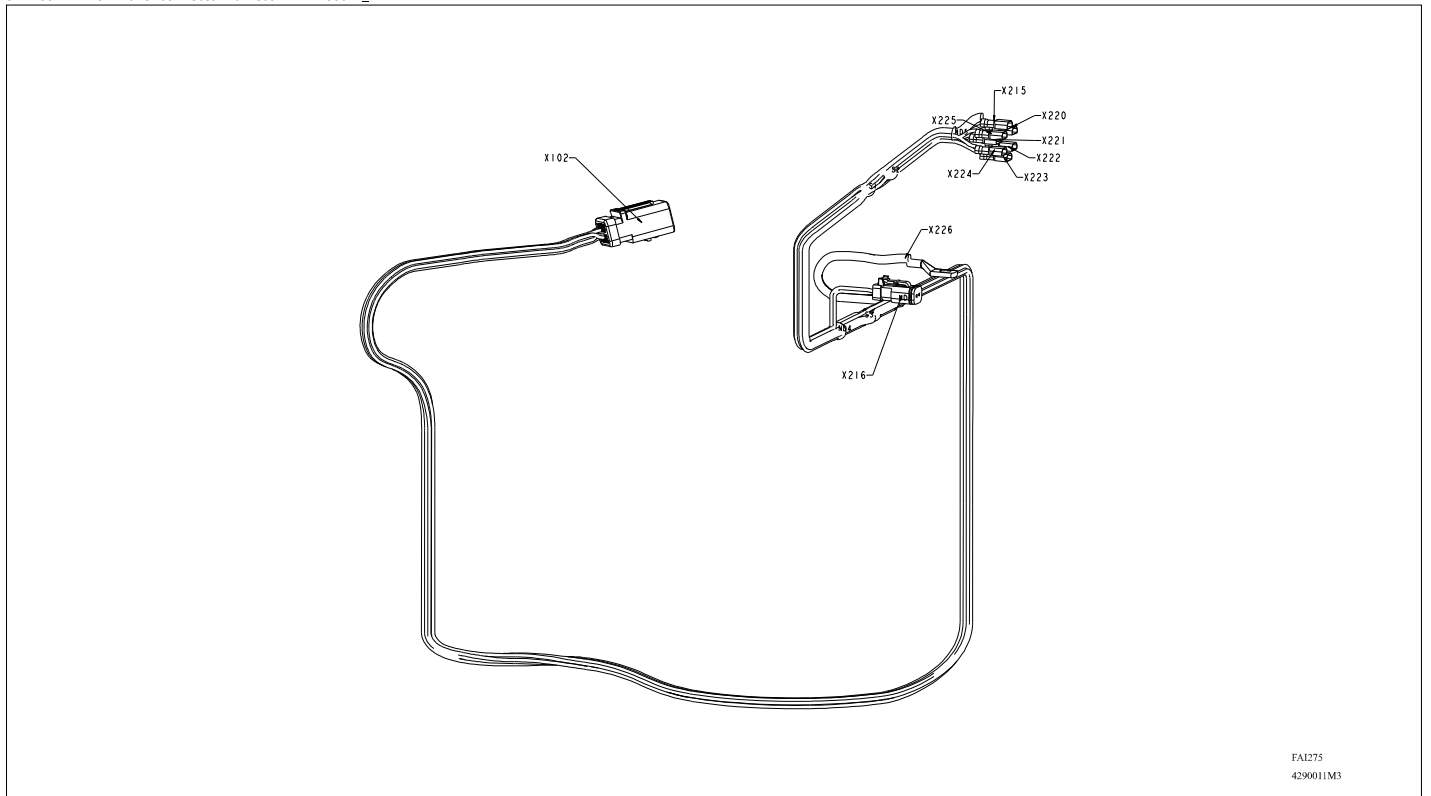


Fig. 58

5.1.2.68 FAI292 - NA direction indicator harness - 4376780\_1/2

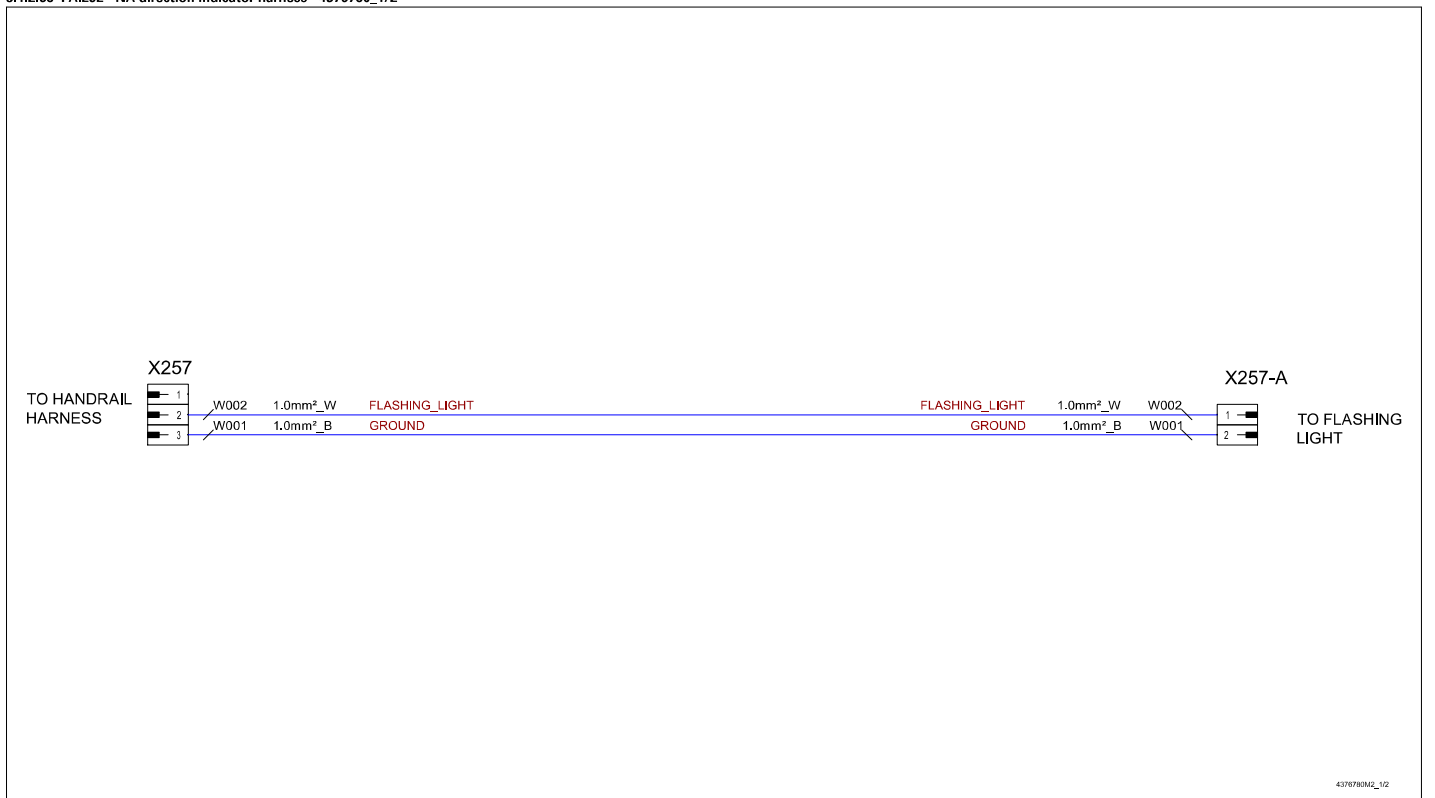
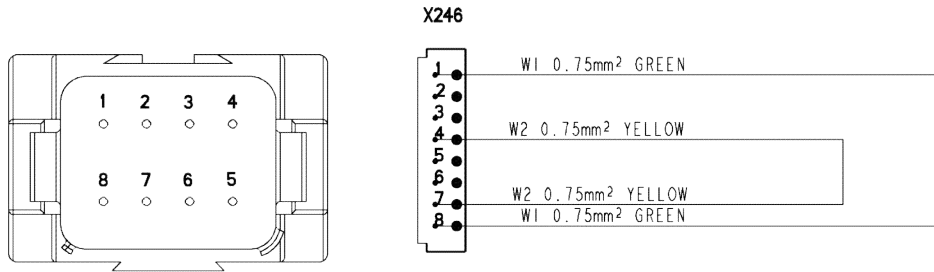


Fig. 68

5.1.2.78 FAI296 - Electrohydraulic valves shunt harness - 4295666



4295666L\_1/1

Fig. 78

5.1.2.88 FAI310 - Battery/battery isolator negative cable harness - 4355556



Fig. 88





6.1.1.6 HFD02014 - Hydraulics diagram: standard steering system

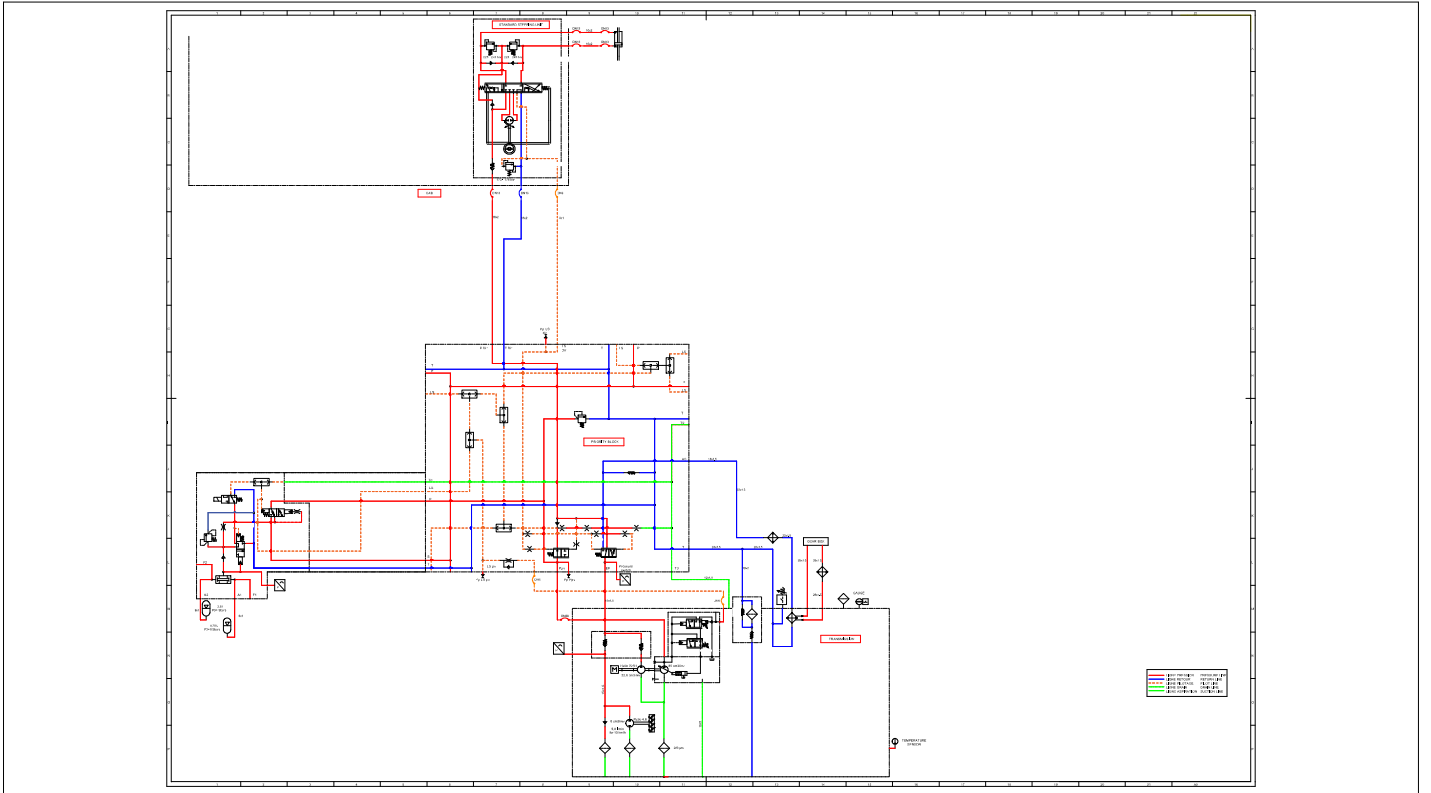


Fig. 6

6.1.1.16 HFD09009 - Hydraulics diagram: suspended cab

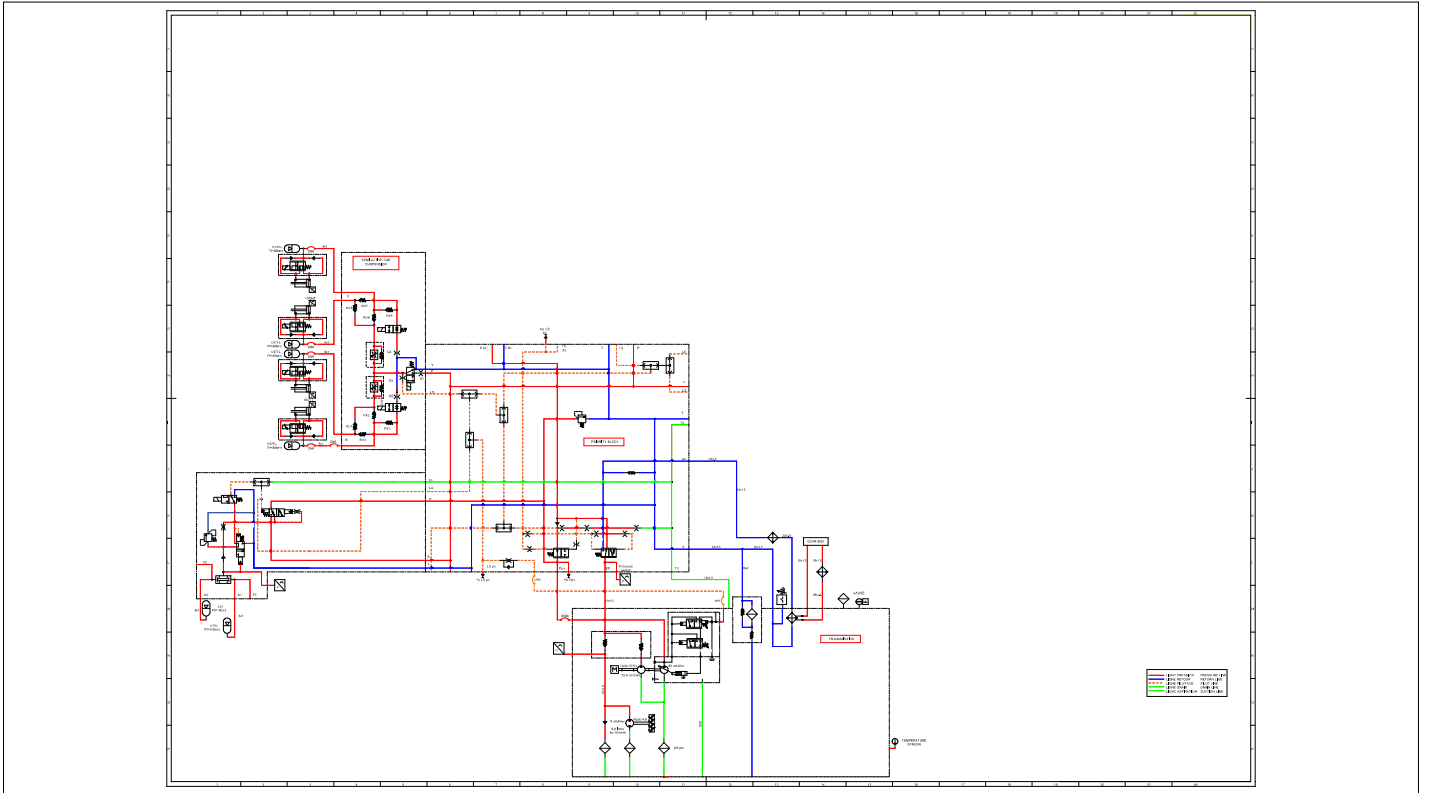


Fig. 16

7.1.1.2 PFD01018 - Trailer brake pneumatic diagram (Mother Regulation)

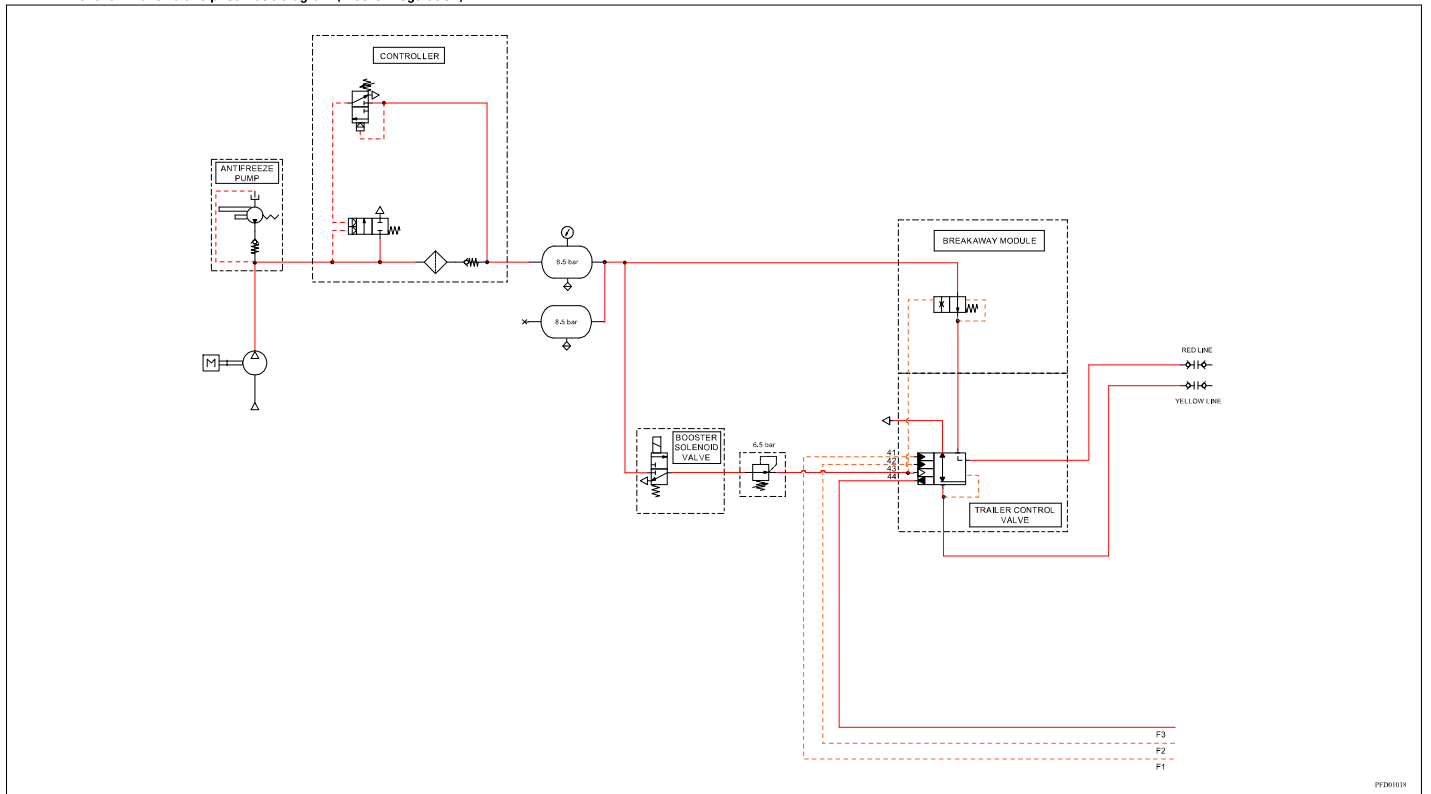


Fig. 2

PFD01018

4. Step 02/02: Fully and carefully release the

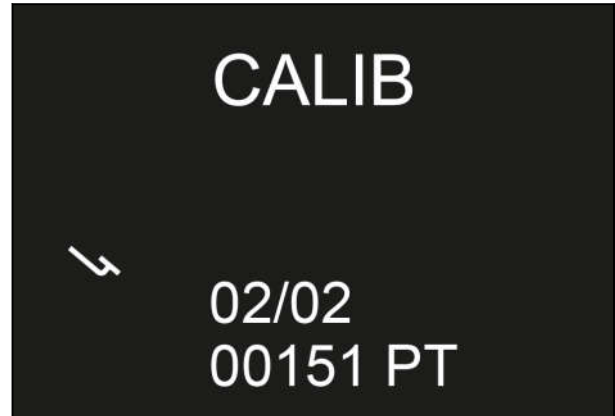
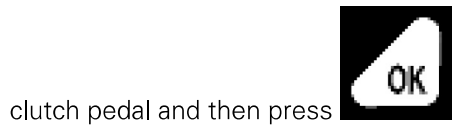


Fig. 17

### Calibration result

The calibration result is displayed:

- Calibration has failed.

### IMPORTANT:

*Error codes can be displayed before, during, and after calibration. To find out what they mean, see chapter [Clutch pedal sensor calibration error code](#), page 8-96 .*

- 5.



6. **Switch off the ignition for at least 30 seconds in order to validate the calibration.**

#### 8.2.1.4 Calibration of the throttle pedal sensor

Calibration of the throttle pedal sensor

### NOTE:

#### **Calibration procedure**

*This calibration is recorded in **X55** - Instrument panel.*

*The throttle pedal potentiometer must be calibrated each time one of the following elements is replaced or modified:*

- **X71** - Throttle pedal sensor,
- **X55** - Instrument panel.

### Conditions before calibration

1. Ignition on, engine off.

### Accessing the calibration menu

2. Access the instrument panel calibration



menu and select the icon, then start calibration.

**NOTE:** To access the menu, select and run calibration via the instrument panel, see chapter [Access to instrument panel calibration screen](#), page 8-6 .

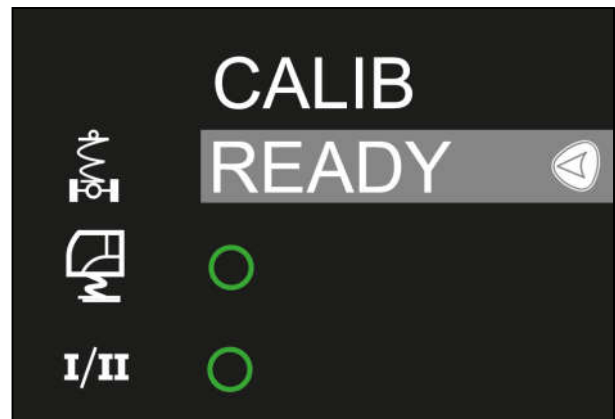


Fig. 51

### Calibration

Calibration is carried out automatically and allows:

- the high and low stops of the suspended front axle to be defined for optimum use of the ram travel,
- sensor signals to be measured in order to obtain maximum precision on the front axle position according to the setting potentiometer,
- measurement of the solenoid valve starter currents that start to move the front axle.

3. Wait for automatic calibration of the suspended front axle.

**NOTE:** Throughout calibration, the front axle suspension switch **X718** - Additional keypad flashes.

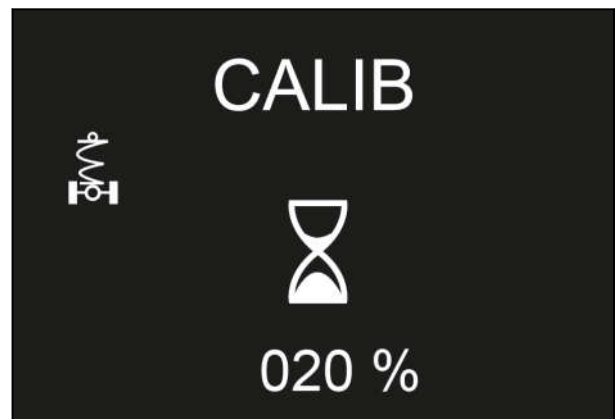


Fig. 52

### Calibration result

The calibration result is displayed:

- 
- Calibration has failed.

#### IMPORTANT:

**Error codes can be displayed before, during, and after calibration. To find out what they mean, see chapter [Suspended front axle calibration error code](#), page 8-98 .**

- 4.



Press

5. Switch off the ignition for at least 30 seconds in order to validate the calibration.

#### 8.2.1.9 Calibrating the suspended cab

Calibrating the suspended cab

- to measure the solenoid valve starter currents that start to move the linkage.
6. Wait for automatic calibration of the linkage.

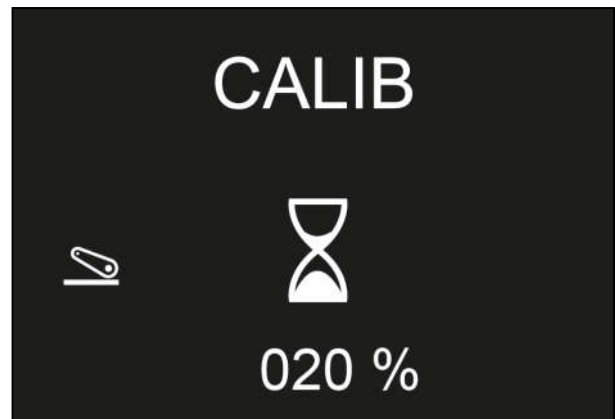


Fig. 78

### Calibration result

The calibration result is displayed:

- 
- Calibration has failed.

### IMPORTANT:

*Error codes can be displayed before, during, and after calibration. To find out what they mean, see chapter [Calibration of the front linkage](#), page 8-28 .*

7.



Press

8. Switch off the ignition for at least 30 seconds in order to validate the calibration.

### 8.2.1.15 Calibration of the hydraulic steering unit

Calibration of the hydraulic steering unit

#### NOTE:

#### **Calibration procedure**

*This calibration is recorded in **X598** - SRC 14-34 main controller (58-pin).*

*The hydraulic steering unit must be calibrated each time one of the following components is replaced or modified:*

- **X210** - Orbitrol steering sensor (SASA sensor),
- **X235** - Front axle steering sensor (WAS sensor),
- **X236** - Electrohydraulic Orbitrol (gray connector),
- **X237** - Electrohydraulic Orbitrol (black connector),
- **X598** - SRC 14-34 main controller (58-pin),
- **X55** - Instrument panel,
- the controller programme.

#### **Conditions before calibration**

1. Engine running, vehicle stationary.
2. **X235** - Front axle steering sensor (WAS sensor) must already be calibrated, see chapter [Calibration of the left/right steering angle sensor \(WAS\)](#), page 8-17 .
3. The SpeedSteer accelerated steering function must be activated

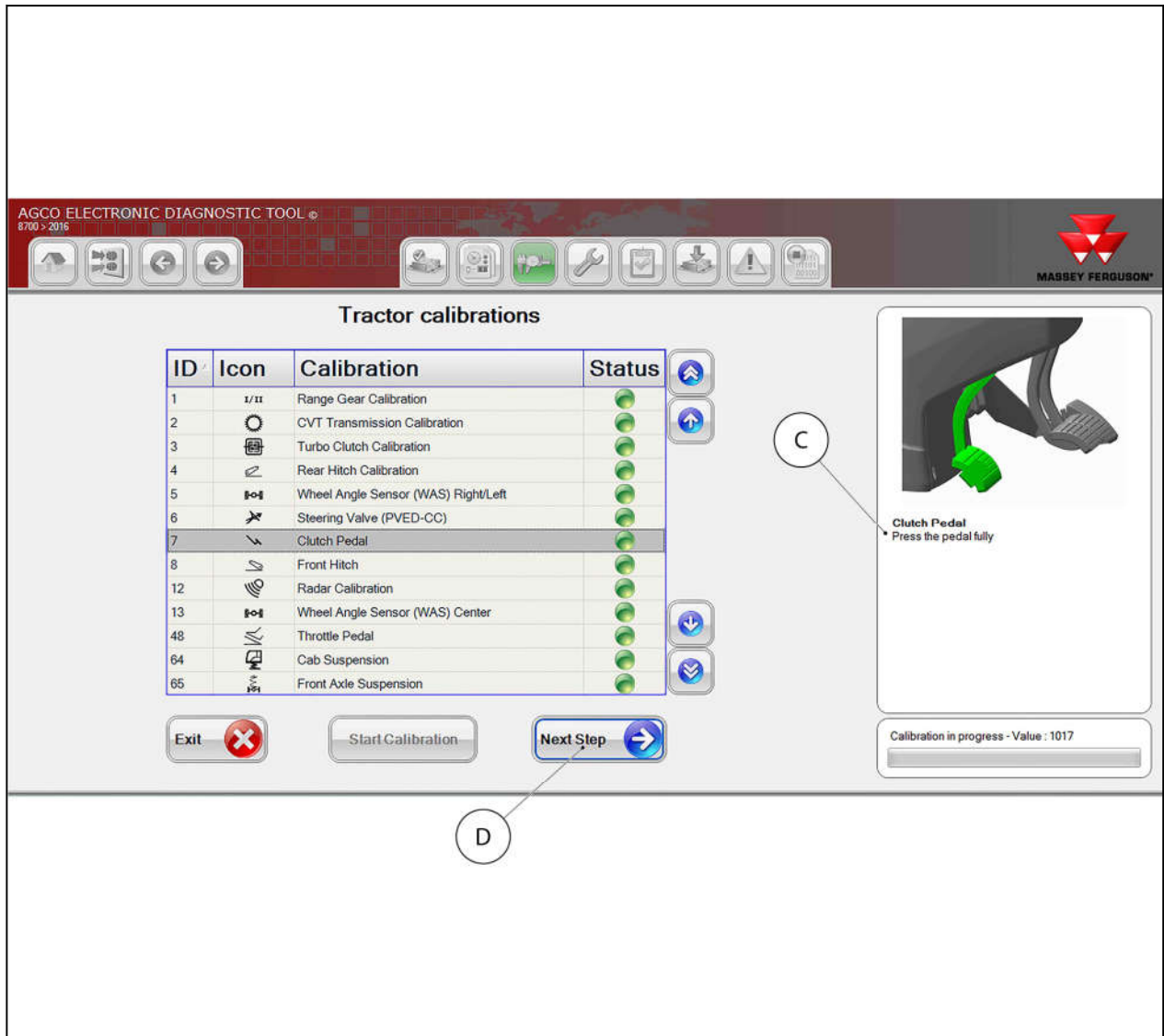


Fig. 96

3. Follow the instructions indicated in the window (C).
4. Click on the button (D) "Next step" to move on to the next step.

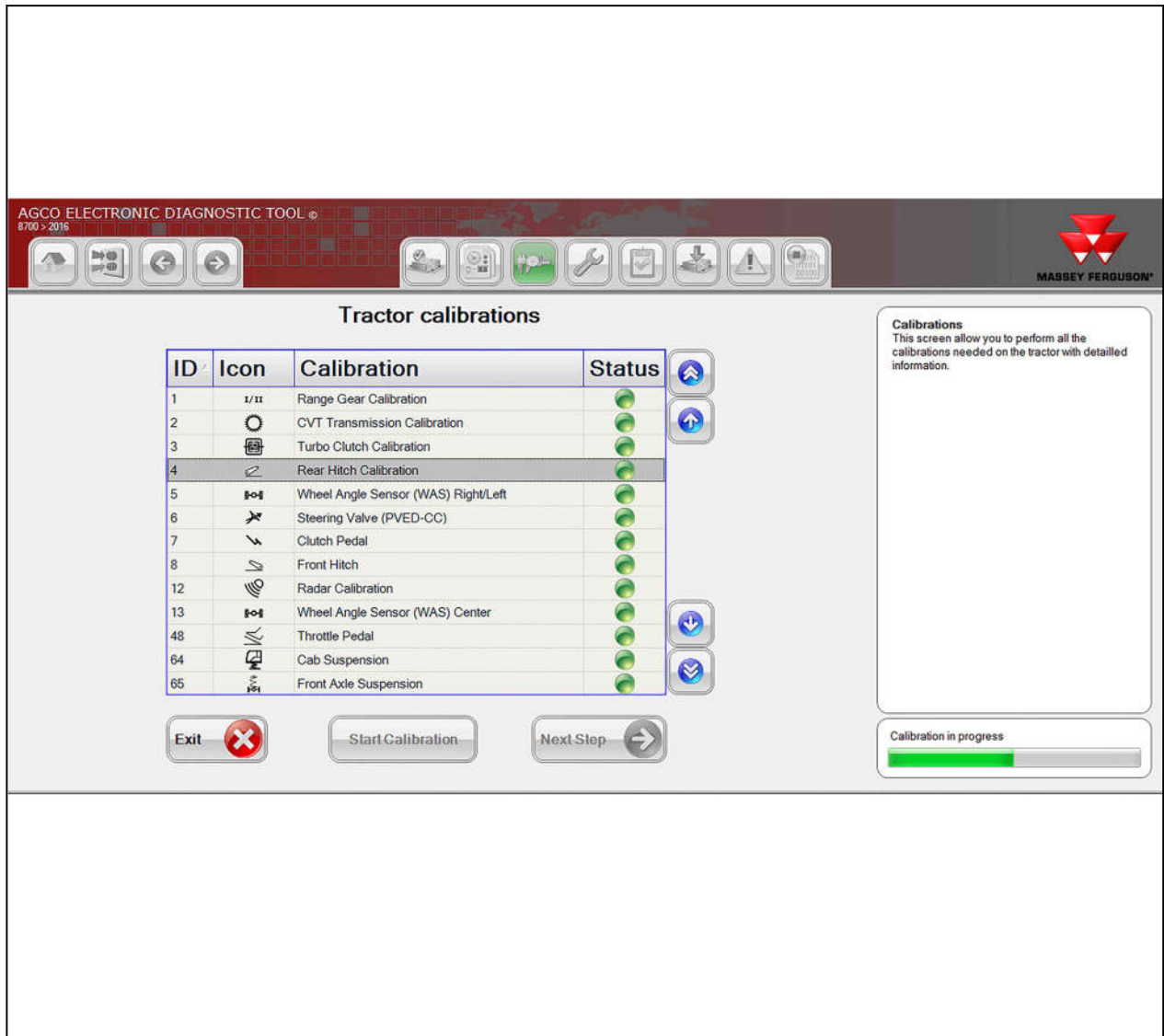


Fig. 106

7. Wait until calibration is carried out automatically.

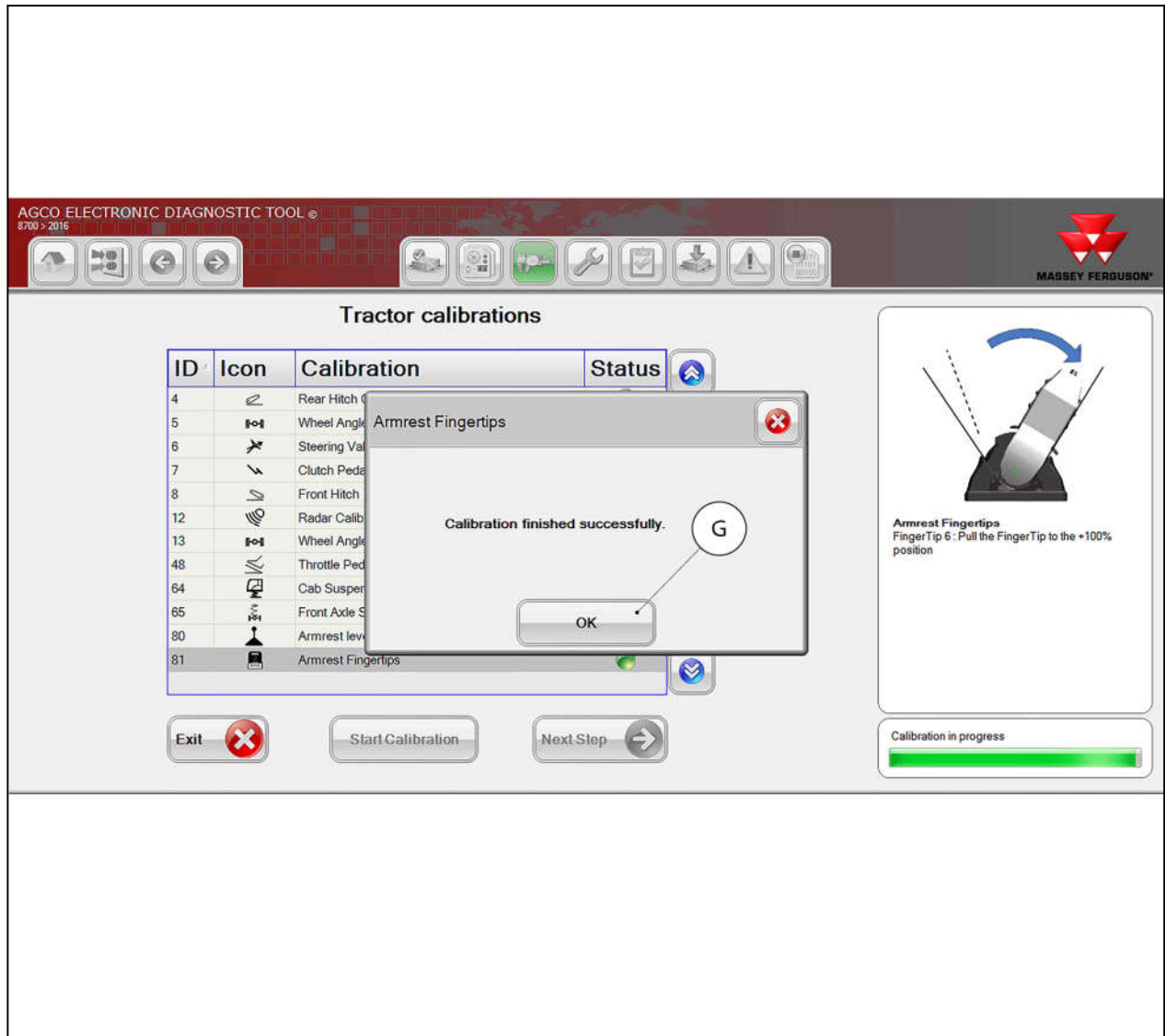


Fig. 117

8. Click on the button (G) "OK" at the end of the calibration process.

**NOTE:** If calibration fails, restart the procedure from the beginning.

Error codes can be displayed before, during, and after calibration. To find out what they mean, see chapter [FingerType calibration error code](#), page 8-97 .

### 8.2.2.8 Calibrate the suspended front axle.

Calibrate the suspended front axle.

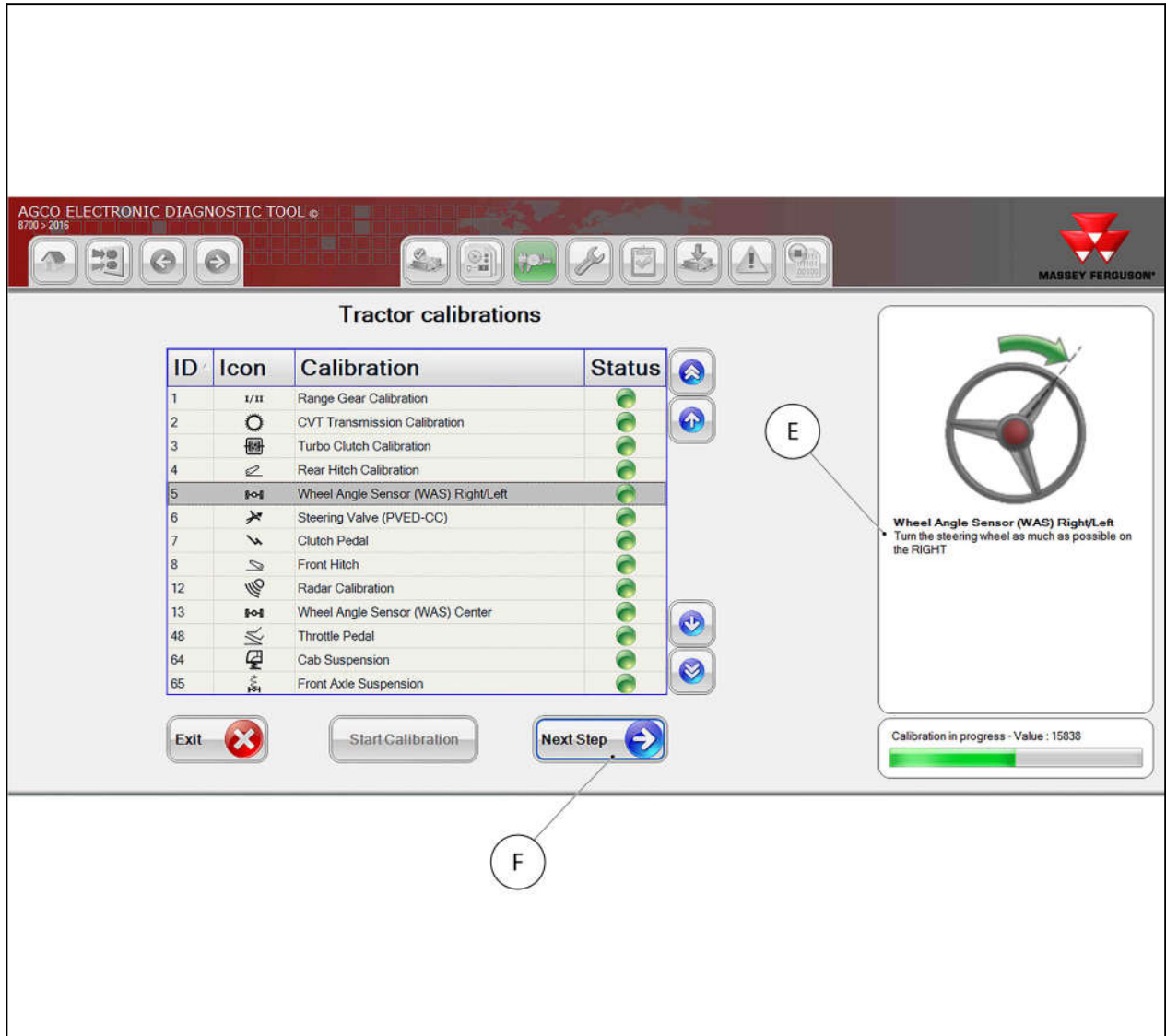


Fig. 127

- Follow the instructions indicated in the window (E).
- Click on the button (F) "Next step" to move on to the next step.

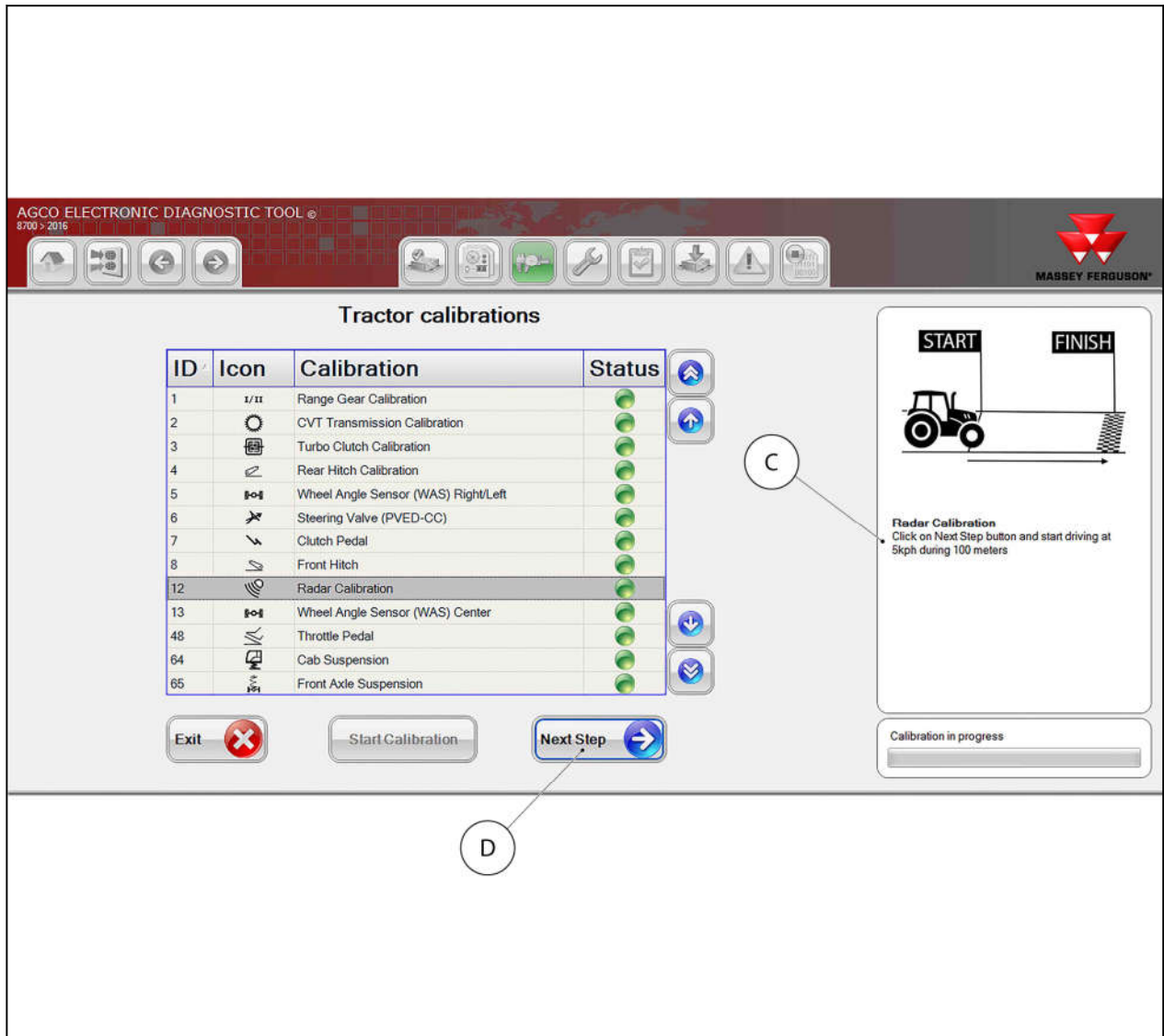


Fig. 136

5. Follow the instructions indicated in the window (C).
6. Click on the button (D) "Next step" to mark the start of the course.

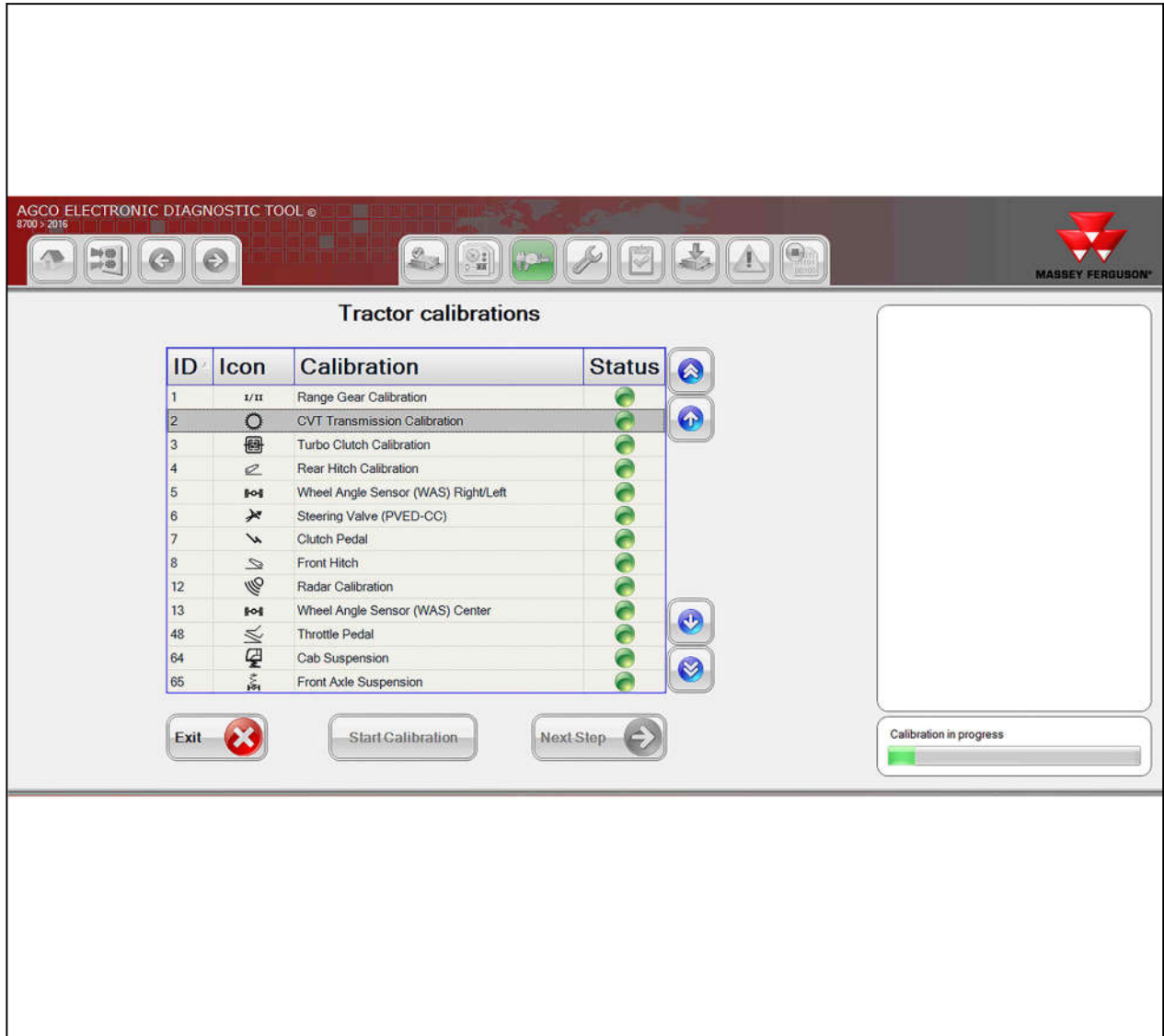


Fig. 146

9. Wait until calibration is carried out automatically.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL