ALPHA EVO
4100

Service Manual

Version 1.00
US - 01.2017

8 - Electrical

Welcome letter

Dear New HARDI® Owner,

Thank you for purchasing your new HARDI® product and welcome to the ever-increasing family of proud HARDI® owners.

HARDI® is the leading sprayer company in offering growers strong, reliable products made for the widest range of applications worldwide. Quality, reliability, and resale value make the HARDI® product line the preferred product line of customers both in North America as well as worldwide. Our guiding principle is to provide the highest level of customer satisfaction and long term value in the marketplace today. We have developed a very high level of customer loyalty in the marketplace which we are very proud of and strive every day to maintain and to continue to grow.

HARDI® is your specialist in spraying and we spend all of our time and keep all of our focus on spraying. We do not share our resources between other types of products or compromise on anything in providing the best quality sprayers to the market today. We can provide the latest in technology with our products if desired, or allow them to operate with the technology that you already use on other products in most cases. You get to decide that, and what best suits your needs. We feel that you, our customer, are the best suited to answer that question for your operation. Either way, you decide, and we will try and help make it happen for you.

Our broad spectrum of product offerings, from the ruggedly simple models we build to our highly sophisticated models, the built-in HARDI® strength and reliability ensures a low cost of ownership. HARDI® sprayers are all based on a functional design concept of being as simple to operate as possible and to meet our customers' requirements for all their application needs.

Please take the time to thoroughly read the Operator's Manual before using your equipment. You will find many helpful hints as well as important safety and operation information.

Some of the features on your HARDI® sprayer were suggested by growers. There is no substitute for "on farm" experience and we invite your comments and suggestions. If any portion of this instruction book remains unclear after reading it, contact your HARDI® dealer or service personnel for further explanation before using the equipment.

For Product, Service or Warranty Information please contact your local HARDI® dealer.

- Please use the HARDI® Customer Service number: 1-866-770-7063
- Or send your email to CUSTSERV@hardi-us.com

HARDI® NORTH AMERICA INC.

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Sincerely,

Wayne Buchberger

President

Operator safety

Symbols

These symbols are used throughout the book to designate where the reader needs to pay extra attention.


This symbol means DANGER. Be very alert as your safety is involved!


This symbol means WARNING. Be alert as your safety can be involved!


This symbol means ATTENTION. This guides you to better, easier and safer operation of your sprayer!


This symbol means NOTE.

General info

Before using the sprayer, read the following recommendations and safety instructions.

- Read this instruction book carefully before using the equipment. It is equally important that other operators of this equipment also read this book.
- If any portion of this instruction book remains unclear after reading it, contact your HARDI® dealer for further explanation before using the equipment.
- Local law may demand that the operator is certified to use spray equipment. Adhere to the law.
- The driver's seat is the intended working place during operation.
- Wear protective clothing. Clothing may differ according to the plant protection chemicals used. Comply to any applicable local legislation.
- After spraying, the operator should wash and change his clothes.
- Rinse and wash equipment after use and before servicing. Wash tools if they have become contaminated.
- Do not eat, drink or smoke during the use and maintenance of your sprayer.
- In case of poisoning, immediately seek medical advice. Remember to identify chemicals used. Follow instructions indicated on the label(s) of the products used.
- Never service or repair the equipment while it is operating.
- Replace all safety devices or shields immediately after servicing.
- Do not go under the machine unless it is secured. The boom is secure when placed in the transport brackets with rear transport lock engaged.
- Do not attempt to enter the tank.
- Keep children away from the sprayer.

Important guidelines

- Comply with all recommendations for installation, carrying out adjustments, maintenance and repair contained in this instruction book.
- Use only original spare parts and accessories conforming to the manufacturer's recommendations.
- Do not modify or have your machine and it’s accessories modified by someone else (mechanical, electrical, hydraulic and pneumatic characteristics) and, more generally, the parts of the machine affecting user safety, without first requesting written agreement from the manufacturer.
- Failure to respect these rules may make your machine dangerous. In the event of damage or injury, HARDI® shall not be held liable in any way.

2 - Safety notes

Operator's skill

The machine should be used and maintained by people who are aware of its special use and safety characteristics. Before using your machine, familiarize yourself with all the commands. When working, it will be too late to do so. Ensure that you have the skills required for protecting crops and the environment, and for handling and spraying plant protection chemicals.

Driving on public roads

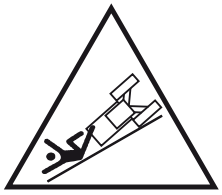
When driving on public roads, obey all traffic regulations. Pay particular attention to those regarding mandatory equipment such as lights, indicators, hazard lights, etc.

You should be aware of the vehicle's size and weight, particularly the overall width and height.

WARNING! You must in all circumstances adapt your driving on the road, particularly by reducing your speed during turns or when road conditions demand. Also reduce speed when meeting or being passed by another vehicle.

Driving in fields

Be very careful to avoid the risk of overturning when driving at speeds greater than 9 mph (15 km/h) or when driving on a slope.



ATTENTION! As a general rule:

- Adapt your speed and driving to suit the terrain you are driving on. Be aware and take care!
- Slow down when driving on uneven terrain as the sprayer may become unbalanced and overturn.
- No persons are allowed in the operational area of the sprayer. Take care not to harm people or surroundings when maneuvering the sprayer, especially while backing up.
- In all circumstances and particularly on uneven and sloping terrain, drive the machine at a low speed, especially on curves and avoid sudden changes of direction.
- Do not brake or accelerate suddenly when going up or down a slope, bearing in mind the variable volume of liquid in the sprayer tank.

DANGER! Boom maneuvers should be carried out with the sprayer stationary and on flat ground. Ensure that there are no obstacles nearby (electrical lines, people, poles etc.).

Lights, working at night

If there is insufficient light for working at night, the spraying boom should be equipped with boom lights. For more information on this equipment, contact your HARDI® dealer.

Recommendations to users of crop protection chemicals

This sprayer has been designed and manufactured by HARDI® for the application of crop protection chemicals. For your safety and the proper functioning of the sprayer, it is important to read and understand all instruction books delivered with this sprayer.

It is also the sole responsibility of the operator to strictly comply with all recommendations given by the manufacturers of all crop protection chemicals used with this sprayer.

In particular, it is strongly recommended that any operator of this sprayer:

- Carefully read the label(s) of the manufacturer(s) of the treatment products used with this sprayer and follow the instructions given (measuring, personal protective equipment, etc.);
- Mix only products whose compatibility was expressly recognized by the manufacturer(s) of the crop protection chemicals being mixed;
- Avoid introducing air while filling the tank to prevent the formation of foam and cause problems with overflow;
- Follow the manufacturer(s) instructions and warnings for all crop protection chemicals regarding proper storage, processing and keeping chemicals out of the reach of children and animals;
- Observe all precautions relating to the disposal/recycling of packaging, in accordance with the recommendations of the manufacturer(s) of the products used;
- Contact the manufacturer(s) of the plant protection product (or their representative) if any doubt remains after reading the label(s) of their product(s).

Personal safety equipment

Depending on which type of chemical is used, some or all of the following protective clothing and equipment will be required:

1. Ear muffs
2. Safety goggles or face shield
3. Respirator
4. Chemical resistant coveralls
5. Chemical resistant gloves
6. Chemical resistant boots

Contaminated clothing

Contaminated clothing should be removed and safely stored and laundered. Do not contaminate the inside of the cab with soiled clothing.

2 - Safety notes

Safety decals

It is important that the safety decals remain in place and in good condition. The decals will draw your attention to all the possible dangers and refer to this instruction manual.

Replace any safety decals that are missing, illegible or damaged.

Clean off any mud or dirt that makes the safety decals illegible.

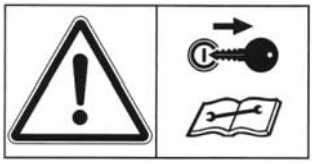
Mandatory

Read manual

- Read the operator's manual before operating machine.
- Regularly consult manual for maintenance schedule, instructions, etc.

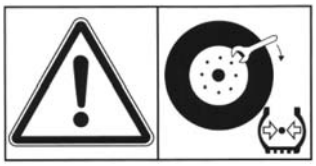
Remove key

- Remove the ignition key before leaving the cab to perform maintenance.
- Consult operator's manual before performing maintenance.



Tire maintenance

- The wheel nuts must be re-torqued after the first 2 hours of operation. Then periodically check that the tires are properly inflated.



Prohibited

Speed limit

- Maximum speed limit while operating the sprayer.
- Extra care must be taken on hills and when cornering.

Engine start

- Never attempt to start engine while outside the cab.

Do not climb

- Do not climb on or off machine.
- Always use ladder and working platform to access the machine.

Do not drink

- Water from the clean water tank is for hand washing, cleaning of clogged nozzles, etc. This water must never be used for drinking.

Danger

Overhead wires

- Take care when operating near wires to prevent entanglement or electrocution.

Fluids under pressure

- Shut down the engine and relieve pressure before performing maintenance.

Danger overhead

- Do not enter paralift area or stand under boom.

Danger from hot surface

- Risk of burns.

Danger from crushing

- Risk of crushing.

Danger from crushing

- Risk of crushing hand.

Danger from radiator

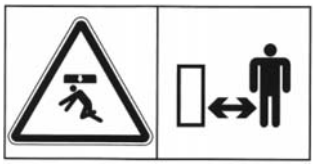
- Risk of injury from fan blades.
- Risk of burns.

Danger from wheel

- Risk of being crushed by wheel.

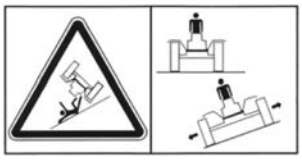
Danger from machine

- Stay a safe distance from the machine.



Danger of toppling over on hillside or slope

- Drive with extreme caution.
- Widen axle track width to minimize risk.



Local poison information center

If you live anywhere in the United States, the following toll free number will connect you to your Local Poison Information Center.

PHONE NO. 1 - 800 - 222 - 1222

If you live outside the United States, find the number for the poison control center in your phone book and write it in the space below:

PHONE NO._____ - _____ - _____

Keep a list, in the space provided below, of all the chemicals that you have in use.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

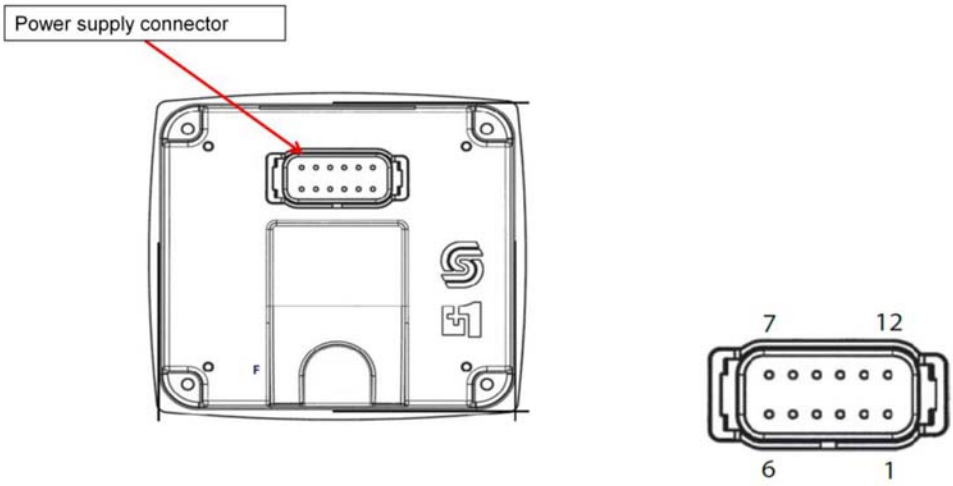
8. _____

9. _____

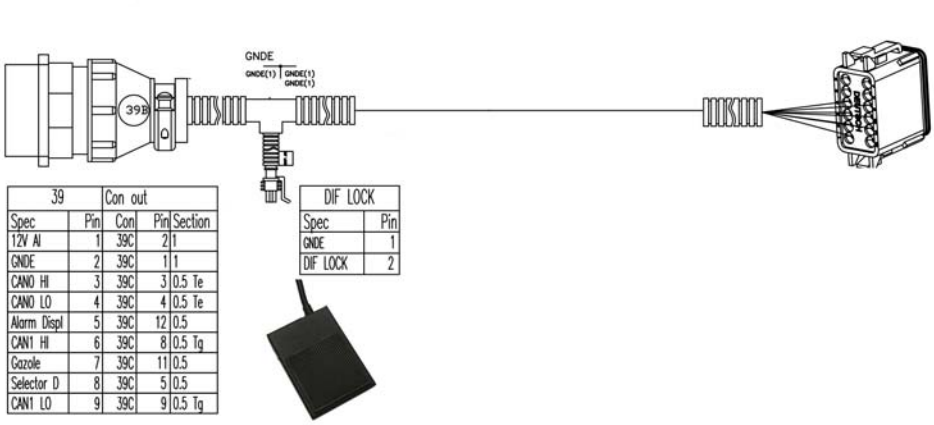
10. _____

Electrical

Rear Connector



DP250 Harness



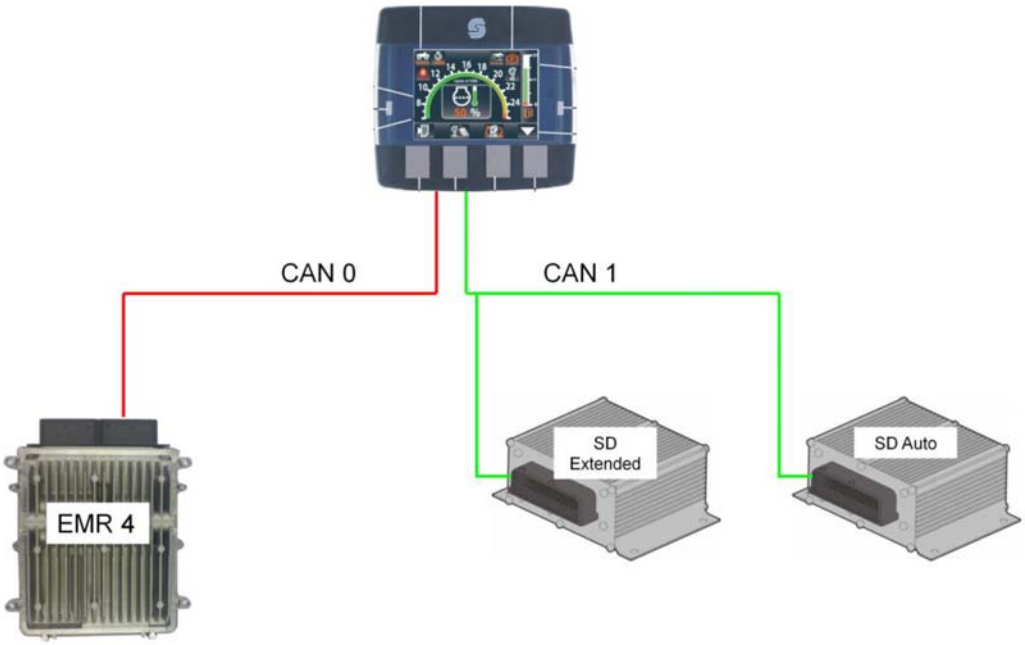
39		Con out		
Spec	Pin	Con	Pin	Section
12V AI	1	39C	2	1
GNDE	2	39C	1	1
CAN0 HI	3	39C	3	0.5 Te
CAN0 LO	4	39C	4	0.5 Te
Alarm Displ	5	39C	12	0.5
CAN1 HI	6	39C	8	0.5 Tg
Gazole	7	39C	11	0.5
Selector D	8	39C	5	0.5
CAN1 LO	9	39C	9	0.5 Tg

DIF LOCK	
Spec	Pin
GNDE	1
DIF LOCK	2

39C		Con out		
Spec	Pin	Con	Pin	Section
GNDE	1	39B	2	0.5
12V AI (a)	2	39B	1	0.5
CAN 0 HI	3	39B	3	0.5 Te
CAN 0 LO	4	39B	4	0.5 Te
SELECTOR D	5	39B	8	0.5
NC	6			
NC	7			
CAN 1 HI	8	39B	6	0.5 Tg
CAN 1 LO	9	39B	9	0.5 Tg
DIFF LOCK	10	39B	10	0.5
Gazole	11	39B	7	0.5
ALARM Displ	12	39B	5	0.5

CanBus

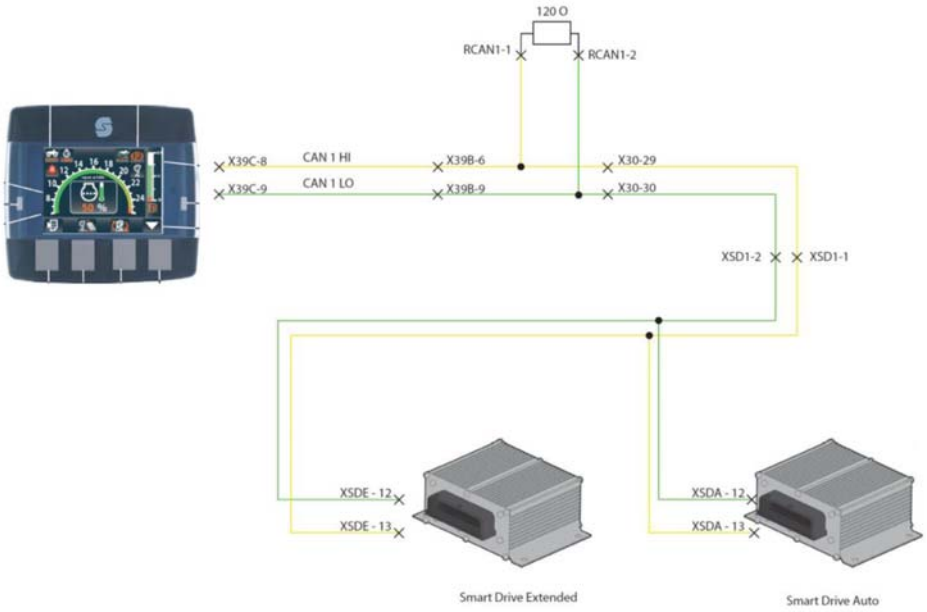
Overview



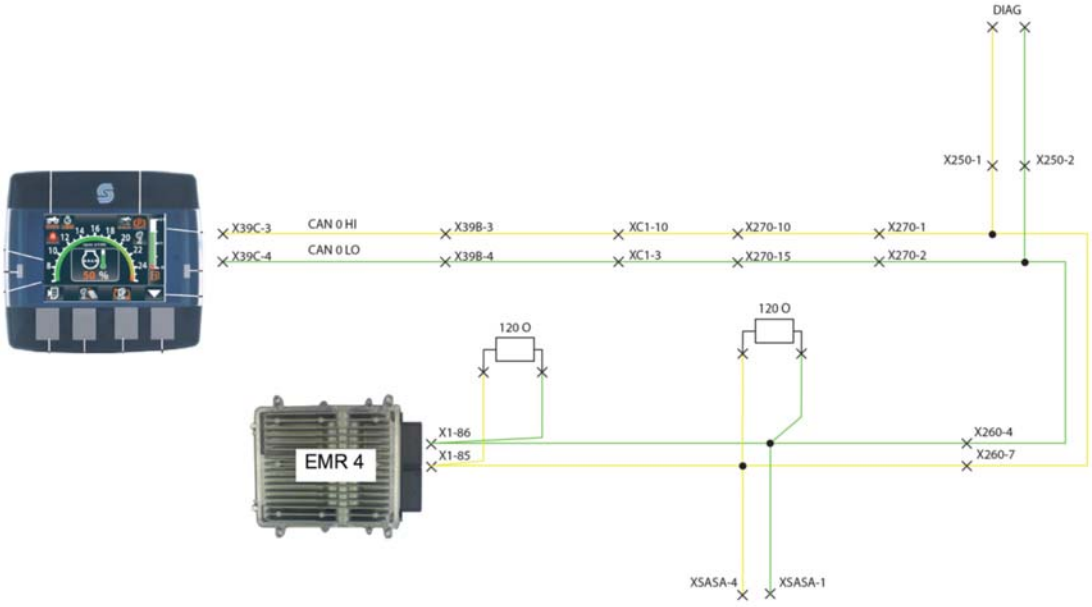
CAN 0: Engine CAN

CAN 1: Transmission CAN

Poclain CanBus



Deutz CanBus



KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1	132	11	2-2-6	Luftmengen Sensor; Sensorfehler	Luftmengen Sensor Last Korrekturfaktor maximales Drift Limit überschritten; Signal unplausibel	Air flow sensor; sensor error	Air flow sensor load correction factor exceeding the maximum drift limit; plausibility error
2	132	11	2-2-6	Luftmengen Sensor; Sensorfehler	Luftmengen Sensor Last Korrekturfaktor Drift Limit überschritten; Signal unplausibel	Air flow sensor; sensor error	Air flow sensor load correction factor exceeding drift limit; plausibility error
3	132	11	2-2-6	Luftmengen Sensor; Sensorfehler	Luftmengen Sensor Korrekturfaktor niedriger Leerlauf maximales Drift Limit überschritten	Air flow sensor; sensor error	Air flow sensor low idle correction factor exceeding the maximum drift limit
4	132	11	2-2-6	Luftmengen Sensor; Sensorfehler	Luftmengen Sensor Last Korrekturfaktor maximales Drift Limit überschritten	Air flow sensor; sensor error	Air flow sensor load correction factor exceeding the maximum drift limit
9	172	2	2-2-6	Sensor Ansauglufttemperatur; Signal unplausibel	Sensor Ansauglufttemperatur; Signal unplausibel	Sensor ambient air temperature; plausibility error	Sensor ambient air temperature; plausibility error
34	523006	3	2-4-2	Betriebsarten Schalter; Batteriekurzschluss	Betriebsarten Schalter; Batteriekurzschluss	Controller mode switch; short circuit to battery	Controller mode switch; short circuit to battery
35	523006	4	2-4-2	Betriebsarten Schalter; Massekurzschluss	Betriebsarten Schalter; Massekurzschluss	Controller mode switch; short circuit to ground	Controller mode switch; short circuit to ground
45	168	3	3-1-8	Sensorfehler Batteriespannung; Signalbereich überschritten	Sensorfehler Batteriespannung; Signalbereich überschritten	Sensor error battery voltage; signal range check high	Sensor error battery voltage; signal range check high
46	168	4	3-1-8	Sensorfehler Batteriespannung, Signalbereich unterschritten	Sensorfehler Batteriespannung, Signalbereich unterschritten	Sensor error battery voltage; signal range check low	Sensor error battery voltage; signal range check low
47	168	2	3-1-8	Batteriespannung; Systemreaktion ausgelöst	Batteriespannunug zu hoch; Warnschwelle erreicht	Battery voltage; system reaction initiated	High battery voltage; warning threshold exceeded
48	168	2	3-1-8	Batteriespannung; Systemreaktion ausgelöst	Batteriespannung zu niedrig; Warnschwelle erreicht	Battery voltage; system reaction initiated	Low battery voltage; warning threshold exceeded
49	597	2	3-2-1	Hauptbremsschalter und Redundanzbremsschalter Status unplausibel	Hauptbremsschalter und Redundanzbremsschalter Status unplausibel	Break lever mainswitch and break lever redundancyswitch status not plausible	Break lever mainswitch and break lever redundancyswitch status not plausible
55	523910	14	6-9-5	Luftpumpe erreicht Luftmassen-Sollwertvorgabe nicht	Luftpumpe erreicht Luftmassen-Sollwertvorgabe nicht	Air pump doesn´t achieve air mass flow setpoint	Air pump doesn´t achieve air mass flow setpoint
56	524013	7	8-5-6	Brennerbetrieb gestört	Brennerflamme unbeabsichtigt gelöscht	Burner operation disturbed	Burner flame unintentional deleted
57	524020	14	8-6-3	Leistungsreduzierung Motor; Zu wenig Sauerstoff für Regeneration	Leistungsreduzierung Motor; Zu wenig Sauerstoff für Regeneration	Engine power; Not enough oxygen for regeneration	Engine power; Not enough oxygen for regeneration
58	523911	0	7-2-3	Brennerdosierventil (DV2); Überstrom am Ende der Einspritzphase	Brennerdosierventil (DV2); Überstrom am Ende der Einspritzphase	Burner dosing valve (DV2); overcurrent at the end of the injection phase	Burner dosing valve (DV2); overcurrent at the end of the injection phase
59	523911	12	7-2-3	Brennerdosierventil (DV2); Leistungsstufe Übertemperatur	Brennerdosierventil (DV2); Leistungsstufe Übertemperatur	Burner dosing valve (DV2); powerstage over temperature	Burner dosing valve (DV2); powerstage over temperature
60	523911	3	7-2-3	Brennerdosierventil (DV2); Batteriekurzschluss	Brennerdosierventil (DV2); Batteriekurzschluss	Burner dosing valve (DV2); short circuit to battery	Burner dosing valve (DV2); short circuit to battery
61	523911	3	7-2-3	Brennerdosierventil (DV2); Batteriekurzschluss	Brennerdosierventil (DV2); Batteriekurzschluss plusseitig	Burner dosing valve (DV2); short circuit to battery	Burner dosing valve (DV2); short circuit to battery on high side
62	523911	4	7-2-3	Brennerdosierventil (DV2); Massekurzschluss	Brennerdosierventil (DV2); Massekurzschluss	Burner dosing valve (DV2); short circuit to ground	Burner dosing valve (DV2); short circuit to ground
63	523911	11	7-2-3	Brennerdosierventil (DV2); Kurzschluss Leistungsstufe plusseitig	Brennerdosierventil (DV2); Kurzschluss Leistungsstufe plusseitig	Burner dosing valve (DV2); short circuit high side powerstage	Burner dosing valve (DV2); short circuit high side powerstage
64	523912	2	7-2-2	Drucksensor nach Brennerdosierventil (DV2); Signal unplausibel	Drucksensor nach Brennerdosierventil (DV2); Signal unplausibel	Burner dosing valve (DV2) downstream pressure sensor; plausibility error	Burner dosing valve (DV2) downstream pressure sensor; plausibility error
66	523912	0	7-2-2	Druck nach Brennerdosierventil (DV2) Maximalwert überschritten; Abschaltung Regeneration	Druck nach Brennerdosierventil (DV2) Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for burner dosing valve (DV2) downstream pressure; shut off regeneration	Physical range check high for burner dosing valve (DV2) downstream pressure; shut off regeneration
69	523912	1	7-2-2	Druck nach Brennerdosierventil (DV2) Minimalwert unterschritten; Abschaltung Regeneration. Wenn der Kraftstoffinjektor des Brenners aktiviert wird, dann wird ein Druckwert angezeigt, der nicht über ca. 1250mbar steigt. (Nominal ca. 2400mbar).	Druck nach Brennerdosierventil (DV2) Minimalwert unterschritten; Abschaltung Regeneration. Wenn der Kraftstoffinjektor des Brenners aktiviert wird, dann wird ein Druckwert angezeigt, der nicht über ca. 1250mbar steigt. (Nominal ca. 2400mbar).	Physical range check low for burner dosing valve (DV2) downstream pressure; shut off regeneration. When burner injector is actuated, the measured pressure does not rise above ca. 1250mbar abs (expected: ca. 2400mbar).	Physical range check low for burner dosing valve (DV2) downstream pressure; shut off regeneration. When burner injector is actuated, the measured pressure does not rise above ca. 1250mbar abs (expected: ca. 2400mbar).
72	523912	3	7-2-2	Sensorfehler Drucksensor nach Brennerdosierventil (DV2); Signalbereich überschritten	Sensorfehler Drucksensor nach Brennerdosierventil (DV2); Signalbereich überschritten	Sensor error burner dosing valve (DV2) downstream pressure sensor; signal range check high	Sensor error burner dosing valve (DV2) downstream pressure sensor; signal range check high
73	523912	4	7-2-2	Sensorfehler Drucksensor nach Brennerdosierventil (DV2); Signalbereich unterschritten	Sensorfehler Drucksensor nach Brennerdosierventil (DV2); Signalbereich unterschritten	Sensor error burner dosing valve (DV2) downstream pressure sensor; signal range check low	Sensor error burner dosing valve (DV2) downstream pressure sensor; signal range check low
74	523913	3	7-2-1	Sensorfehler Spannung Diagnoseleitung Glühkerzenkontrolle; Signalbereich überschritten	Sensorfehler Spannung Diagnoseleitung Glühkerzenkontrolle; Signalbereich überschritten	Sensor error glow plug control diagnostic line voltage; signal range check high	Sensor error glow plug control diagnostic line voltage; signal range check high
75	523913	4	7-2-1	Sensorfehler Spannung Diagnoseleitung Glühkerzenkontrolle; Signalbereich unterschritten	Sensorfehler Spannung Diagnoseleitung Glühkerzenkontrolle; Signalbereich unterschritten	Sensor error glow plug control diagnostic line voltage; signal range check low	Sensor error glow plug control diagnostic line voltage; signal range check low
76	523914	5	7-2-1	Glühkerzenkontrolle; Kabelbruch	Glühkerzenkontrolle; Kabelbruch	Glow plug control; open load	Glow plug control; open load
77	523914	12	7-2-1	Glühkerzenkontrolle; Leistungsstufe Übertemperatur	Glühkerzenkontrolle; Leistungsstufe Übertemperatur	Glow plug control; powerstage over temperature	Glow plug control; powerstage over temperature
78	523914	3	7-2-1	Glühkerzenkontrolle; Batteriekurzschluss	Glühkerzenkontrolle; Batteriekurzschluss	Glow plug control; short circuit to battery	Glow plug control; short circuit to battery
79	523914	4	7-2-1	Glühkerzenkontrolle; Massekurzschluss	Glühkerzenkontrolle; Massekurzschluss	Glow plug control; short circuit to ground	Glow plug control; short circuit to ground
84	639	14	2-7-1	CAN-Bus 0 "BusOff-Status"	CAN-Bus 0 "BusOff-Status"	CAN-Bus 0 "BusOff-Status"	CAN-Bus 0 "BusOff-Status"
85	1231	14	2-7-1	CAN-Bus 1 "BusOff-Status"	CAN-Bus 1 "BusOff-Status"	CAN-Bus 1 "BusOff-Status"	CAN-Bus 1 "BusOff-Status"
86	1235	14	2-7-1	CAN-Bus 2 "BusOff-Status"	CAN-Bus 2 "BusOff-Status"	CAN-Bus 2 "BusOff-Status"	CAN-Bus 2 "BusOff-Status"
88	102	2	2-2-3	Ladeluftdruck; Systemreaktion ausgelöst	Ladeluftdruck über Warnschwelle	Charged air pressure; system reaction initiated	Charged air pressure above warning threshold
89	102	2	2-2-3	Ladeluftdruck; Systemreaktion ausgelöst	Ladeluftdruck über Abschaltschwelle	Charged air pressure; system reaction initiated	Charged air pressure above shut off threshold
96	110	3	2-2-5	Sensorfehler Kühlmitteltemperatur; Signalbereich überschritten	Sensorfehler Kühlmitteltemperatur; Signalbereich überschritten	Sensor error coolant temperature; signal range check high	Sensor error coolant temperature; signal range check high
97	110	4	2-2-5	Sensorfehler Kühlmitteltemperatur; Signalbereich unterschritten	Sensorfehler Kühlmitteltemperatur; Signalbereich unterschritten	Sensor error coolant temperature; signal range check low	Sensor error coolant temperature; signal range check low
98	110	0	2-3-2	Külmitteltemperatur; Systemreaktion ausgelöst	Kühlmitteltemperatur zu hoch; Warnschwelle erreicht	Coolant temperature; system reaction initiated	High coolant temperature; warning threshold exceeded
99	110	0	2-3-2	Külmitteltemperatur; Systemreaktion ausgelöst	Kühlmitteltemperatur zu hoch; Abschaltschwelle erreicht	Coolant temperature; system reaction initiated	High coolant temperature; shut off threshold exceeded
101	111	1	2-3-5	Kühlmittelstand zu niedrig	Kühlmittelstand zu niedrig	Coolant level too low	Coolant level too low
109	523929	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 1 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 1 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 1 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 1 (in firing order); maximum value exceeded
110	523930	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 2 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 2 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 2 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 2 (in firing order); maximum value exceeded
111	523931	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 3 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 3 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 3 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 3 (in firing order); maximum value exceeded
112	523932	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 4 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 4 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 4 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 4 (in firing order); maximum value exceeded
113	523933	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 5 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 5 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 5 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 5 (in firing order); maximum value exceeded
114	523934	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 6 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 6 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 6 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 6 (in firing order); maximum value exceeded
115	523929	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 1 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 1 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 1 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 1 (in firing order); minimum value exceeded
116	523930	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 2 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 2 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 2 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 2 (in firing order); minimum value exceeded
117	523931	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 3 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 3 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 3 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 3 (in firing order); minimum value exceeded
118	523932	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 4 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 4 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 4 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 4 (in firing order); minimum value exceeded
119	523933	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 5 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 5 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 5 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 5 (in firing order); minimum value exceeded
120	523934	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 6 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 6 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 6 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 6 (in firing order); minimum value exceeded
121	1109	2	3-4-1	Motor-Abschaltanforderung ignoriert	Motor-Abschaltanforderung ignoriert	Engine shut off demand ignored	Engine shut off demand ignored
122	523698	11	5-9-2	Abschaltanforderung durch übergeordnete Überwachung	Abschaltanforderung durch übergeordnete Überwachung	Shut off request from supervisory monitoring function	Shut off request from supervisory monitoring function

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
125	523717	12	5-9-5	Timeout der CAN-Sendebotschaft AmbCon; Wetter Umgebungsbedingungen	Timeout der CAN-Sendebotschaft AmbCon; Wetter Umgebungsbedingungen	Timeout Error of CAN-Transmit-Frame AmbCon; Weather environments	Timeout Error of CAN-Transmit-Frame AmbCon; Weather environments
126	523603	9	3-3-8	Timeout der CAN-Empfangsbotschaft AMB; Umgebungstemperatur Sensor	Timeout der CAN-Empfangsbotschaft AMB; Umgebungstemperatur Sensor	Timeout Error of CAN-Receive-Frame AMB; Ambient Temperature Sensor	Timeout Error of CAN-Receive-Frame AMB; Ambient Temperature Sensor
127	3224	2	5-9-6	NOx Sensor; CAN DLC Fehler	DLC Fehler der CAN-Empfangsbotschaft AT1IG1 NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator); Botschaftslänge nicht korrekt	NOx Sensor; CAN DLC error	DLC Error of CAN-Receive-Frame AT1IG1 NOX Sensor (SCR-system upstream cat; DPF-system downstream cat); length of frame incorrect
128	3224	9	5-9-7	NOx Sensor; CAN Timeout	Timeout der CAN-Empfangsbotschaft AT1IG1; NOX Sensor vor Katalysator	NOx Sensor; CAN Timeout	Timeout Error of CAN-Receive-Frame AT1IG1; NOX sensor upstream
129	3224	2	5-9-6	NOx Sensor; CAN DLC Fehler	DLC Fehler der CAN-Empfangsbotschaft AT1IG1Vol NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator); Botschaftslänge nicht korrekt	NOx Sensor; CAN DLC error	DLC Error of CAN-Receive-Frame AT1IG1Vol NOX Sensor (SCR-system upstream cat; DPF-system downstream cat); length of frame incorrect
130	3224	9	5-9-7	NOx Sensor; CAN Timeout	Timeout der CAN-Empfangsbotschaft AT1IG1Vol; NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	NOx Sensor; CAN Timeout	Timeout Error of CAN-Receive-Frame AT1IG1Vol; NOX sensor (SCR-system upstream cat; DPF-system downstream cat)
133	523938	9	7-6-6	Timeout (BAM to packet) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout (BAM to packet) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout Error (BAM to packet) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)	Timeout Error (BAM to packet) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)
134	523939	9	7-6-6	Timeout (BAM to BAM) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout (BAM to BAM) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout Error (BAM to BAM) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)	Timeout Error (BAM to BAM) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)
135	523940	9	7-6-6	Timeout (PCK2PCK) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout (PCK2PCK) der CAN-Empfangsbotschaft AT1IGCVol1 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System vor Katalysator; DPF-System nach Katalysator)	Timeout Error (PCK2PCK) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)	Timeout Error (PCK2PCK) for CAN-Receive-Frame AT1IGCVol1 information; factors & Sensorcalibration for NOX Sensor (SCR-system upstream cat; DPF-system downstream cat)
137	3234	9	6-0-1	NOx Sensor; CAN Timeout	Timeout der CAN-Empfangsbotschaft AT1OG1; NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	NOx Sensor; CAN Timeout	Timeout Error of CAN-Receive-Frame AT1OG1; NOX sensor (SCR-system downstream cat; DPF-system downstream cat)
138	3234	2	6-0-0	NOx Sensor; CAN DLC Fehler	DLC Fehler der CAN-Empfangsbotschaft AT1OG1Vol NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator); Botschaftslänge nicht korrekt	NOx Sensor; CAN DLC error	DLC Error of CAN-Receive-Frame AT1O1Vol NOX Sensor (SCR-system downstream cat; DPF-system downstream cat); length of frame incorrect
139	3234	9	6-0-1	NOx Sensor; CAN Timeout	Timeout der CAN-Empfangsbotschaft AT1OG1Vol; NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	NOx Sensor; CAN Timeout	Timeout Error of CAN-Receive-Frame AT1OG1Vol; NOX sensor (SCR-system downstream cat; DPF-system downstream cat)
140	523941	9	7-6-7	Timeout (BAM to packet) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout (BAM to packet) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout Error (BAM to packet) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)	Timeout Error (BAM to packet) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)
141	523942	9	7-6-7	Timeout (BAM to BAM) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout (BAM to BAM) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout Error (BAM to BAM) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)	Timeout Error (BAM to BAM) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)
142	523943	9	7-6-7	Timeout (PCK2PCK) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout (PCK2PCK) der CAN-Empfangsbotschaft AT1OGCVol2 information; Faktoren & Sensorkalibrierung für NOX Sensor (SCR-System nach Katalysator; DPF-System nach Katalysator)	Timeout Error (PCK2PCK) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)	Timeout Error (PCK2PCK) for CAN-Receive-Frame AT1OGCVol2 information; factors & Sensorcalibration for NOX Sensor (SCR-system downstream cat; DPF-system downstream cat)
168	523935	12	7-6-3	Timeout der CAN-Sendebotschaft EEC3VOL1; Motor Sendebotschaften	Timeout der CAN-Sendebotschaft EEC3VOL1; Motor Sendebotschaften	Timeout Error of CAN-Transmit-Frame EEC3VOL1; Engine send messages	Timeout Error of CAN-Transmit-Frame EEC3VOL1; Engine send messages
169	523936	12	7-6-4	Timeout der CAN-Sendebotschaft EEC3VOL2; Motor Sendebotschaften	Timeout der CAN-Sendebotschaft EEC3VOL2; Motor Sendebotschaften	Timeout Error of CAN-Transmit-Frame EEC3VOL2; Engine send messages	Timeout Error of CAN-Transmit-Frame EEC3VOL2; Engine send messages
171	523212	9	3-3-3	Timeout der CAN-Empfangsbotschaft ComEngPrt; Engine Protection	Timeout der CAN-Empfangsbotschaft ComEngPrt; Engine Protection	Timeout Error of CAN-Receive-Frame ComEngPrt; Engine Protection	Timeout Error of CAN-Receive-Frame ComEngPrt; Engine Protection
179	523240	9	5-2-7	Timeout der CAN-Empfangsbotschaft FunModCtl; Function Mode Control	Timeout der CAN-Empfangsbotschaft FunModCtl; Function Mode Control	Timeout CAN-message FunModCtl; Function Mode Control	Timeout CAN-message FunModCtl; Function Mode Control
198	523216	9	3-3-7	Timeout der CAN-Empfangsbotschaft PrHtEnCmd; Vorheiz-Anforderung, Motor Anforderung	Timeout der CAN-Empfangsbotschaft PrHtEnCmd; Vorheiz-Anforderung, Motor Anforderung	Timeout Error of CAN-Receive-Frame PrHtEnCmd; pre-heat command, engine command	Timeout Error of CAN-Receive-Frame PrHtEnCmd; pre-heat command, engine command
202	523793	9	6-7-8	Timeout der CAN-Empfangsbotschaft UAA10; AGS Sensor Service Botschaft	Timeout der CAN-Empfangsbotschaft UAA10; AGS Sensor Service Botschaft	Timeout Error of CAN-Receive-Frame UAA10; AGS sensor service message	Timeout Error of CAN-Receive-Frame UAA10; AGS sensor service message
203	523794	9	6-7-8	Timeout der CAN-Empfangsbotschaft UAA11; AGS Sensor Daten	Timeout der CAN-Empfangsbotschaft UAA11; AGS Sensor Daten	Timeout Error of CAN-Receive-Frame UAA11; AGS sensor data	Timeout Error of CAN-Receive-Frame UAA11; AGS sensor data
212	523803	9	6-7-8	Timeout der CAN-Empfangsbotschaft RxEngPres; Status Brenner Luftpumpe	Timeout der CAN-Empfangsbotschaft RxEngPres; Status Brenner Luftpumpe	Timeout Error of CAN-Receive-Frame RxEngPres; Status burner airpump	Timeout Error of CAN-Receive-Frame RxEngPres; Status burner airpump
281	523766	9	1-1-8	Timeout der CAN-Empfangsbotschaft Active TSC1AE	Timeout der CAN-Empfangsbotschaft Active TSC1AE	Timeout Error of CAN-Receive-Frame Active TSC1AE	Timeout Error of CAN-Receive-Frame Active TSC1AE
282	523767	9	1-1-8	Timeout der CAN-Empfangsbotschaft Passive TSC1AE	Timeout der CAN-Empfangsbotschaft Passive TSC1AE	Timeout Error of CAN-Receive-Frame Passive TSC1AE	Timeout Error of CAN-Receive-Frame Passive TSC1AE
283	523768	9	1-1-9	Timeout der CAN-Empfangsbotschaft Active TSC1AR	Timeout der CAN-Empfangsbotschaft Active TSC1AR	Timeout Error of CAN-Receive-Frame Active TSC1AR	Timeout Error of CAN-Receive-Frame Active TSC1AR
284	523769	9	1-1-9	Timeout der CAN-Empfangsbotschaft Passive TSC1AR	Timeout der CAN-Empfangsbotschaft Passive TSC1AR	Timeout Error of CAN-Receive-Frame Passive TSC1AR	Timeout Error of CAN-Receive-Frame Passive TSC1AR
285	523770	9		Timeout der CAN-Empfangsbotschaft Passive TSC1DE	Timeout der CAN-Empfangsbotschaft Passive TSC1DE	Timeout Error of CAN-Receive-Frame Passive TSC1DE	Timeout Error of CAN-Receive-Frame Passive TSC1DE
291	523776	9	1-1-9	Timeout der CAN-Empfangsbotschaft TSC1TE - aktiv	Timeout der CAN-Empfangsbotschaft TSC1TE - aktiv	Timeout Error of CAN-Receive-Frame TSC1TE - active	Timeout Error of CAN-Receive-Frame TSC1TE - active
292	523777	9	1-1-9	Passiver Timeout der CAN-Empfangsboschaft TSC1TE; Sollwertvorgabe	Passiver Timeout der CAN-Empfangsboschaft TSC1TE; Sollwertvorgabe	Passive Timeout Error of CAN-Receive-Frame TSC1TE; Setpoint	Passive Timeout Error of CAN-Receive-Frame TSC1TE; Setpoint
293	523778	9	1-1-8	Aktiver Timeout der CAN-Empfangsbotschaft TSC1TR	Aktiver Timeout der CAN-Empfangsbotschaft TSC1TR	Active Timeout Errorof CAN-Receive-Frame TSC1TR	Active Timeout Errorof CAN-Receive-Frame TSC1TR
294	523779	9	1-1-8	Passiver Timeout der CAN-Empfangsbotschaft TSC1TR	Passiver Timeout der CAN-Empfangsbotschaft TSC1TR	Passive Timeout Error of CAN-Receive-Frame TSC1TR	Passive Timeout Error of CAN-Receive-Frame TSC1TR
299	523788	12	6-5-5	Timeout der CAN-Sendebotschaft TrbCH; Status Wastegate	Timeout der CAN-Sendebotschaft TrbCH; Status Wastegate	Timeout Error of CAN-Transmit-Frame TrbCH; Status Wastegate	Timeout Error of CAN-Transmit-Frame TrbCH; Status Wastegate
300	523605	9	1-1-8	Timeout der CAN-Empfangsbotschaft TSC1AE; Traktionskontrolle	Timeout der CAN-Empfangsbotschaft TSC1AE; Traktionskontrolle	Timeout Error of CAN-Receive-Frame TSC1AE; Traction Control	Timeout Error of CAN-Receive-Frame TSC1AE; Traction Control
301	523606	9	1-1-9	Timeout der CAN-Empfangsbotschaft TSC1AR; Retarder	Timeout der CAN-Empfangsbotschaft TSC1AR; Retarder	Timeout Error of CAN-Receive-Frame TSC1AR; Retarder	Timeout Error of CAN-Receive-Frame TSC1AR; Retarder
305	898	9	1-1-8	Timeout der CAN-Empfangsboschaft TSC1TE; Sollwertvorgabe	Timeout der CAN-Empfangsboschaft TSC1TE; Sollwertvorgabe	Timeout Error of CAN-Receive-Frame TSC1TE; Setpoint	Timeout Error of CAN-Receive-Frame TSC1TE; Setpoint
306	520	9	1-1-9	Timeout der CAN-Empfangsbotschaft TSC1TR; Sollwertvorgabe	Timeout der CAN-Empfangsbotschaft TSC1TR; Sollwertvorgabe	Timeout Error of CAN-Receive-Frame TSC1TR; Setpoint	Timeout Error of CAN-Receive-Frame TSC1TR; Setpoint
322	523867	12	6-7-9	Timeout der CAN-Sendebotschaft UAA1 auf CAN 2; Ansteuerung Brenner Luftpumpe	Timeout der CAN-Sendebotschaft UAA1 auf CAN 2; Ansteuerung Brenner Luftpumpe	Timeout Error of CAN-Transmit-Frame UAA1 on CAN 2; Burner Air Pump Control	Timeout Error of CAN-Transmit-Frame UAA1 on CAN 2; Burner Air Pump Control
360	523982	0	7-3-7	Leistungsstufen Diagnose abgeschaltet; Batteriespannung zu hoch	Leistungsstufen Diagnose abgeschaltet; Batteriespannung zu hoch	Powerstage diagnosis disabled; high battery voltage	Powerstage diagnosis disabled; high battery voltage
361	523982	1	7-3-7	Leistungsstufen Diagnose abgeschaltet; Batteriespannung zu niedrig	Leistungsstufen Diagnose abgeschaltet; Batteriespannung zu niedrig	Powerstage diagnosis disabled; low battery voltage	Powerstage diagnosis disabled; low battery voltage
376	630	12	2-8-1	Zugriffsfehler EEPROM-Speicher	Zugriffsfehler EEPROM-Speicher (Löschen)	Access error EEPROM	Access error EEPROM memory (delete)
377	630	12	2-8-1	Zugriffsfehler EEPROM-Speicher	Zugriffsfehler EEPROM-Speicher (Lesen)	Access error EEPROM	Access error EEPROM memory (read)
378	630	12	2-8-1	Zugriffsfehler EEPROM-Speicher	Zugriffsfehler EEPROM-Speicher (Schreiben)	Access error EEPROM	Access error EEPROM memory (write)
381	411	4		AGR Differenzdruck; Minimalwert unterschritten	AGR Differenzdruck; Minimalwert unterschritten	Physical range check low for EGR differential pressure	Physical range check low for EGR differential pressure
387	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Interner Softwarefehler EMR; Injektion abgeschnitten	Internal software error ECU	Internal software error ECU; injection cut off
389	190	0	2-1-4	Motordrehzahl über Warnschwelle (FOC-Level 1)	Motordrehzahl über Warnschwelle (FOC-Level 1)	Engine speed above warning threshold (FOC-Level 1)	Engine speed above warning threshold (FOC-Level 1)
390	190	11	2-1-4	Motordrehzahl über Warnschwelle (FOC-Level 2)	Motordrehzahl über Warnschwelle (FOC-Level 2)	Engine speed above warning threshold (FOC-Level 2)	Engine speed above warning threshold (FOC-Level 2)
391	190	14	2-1-4	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Motordrehzahl über Warnschwelle (Schubbetrieb)	Speed detection; out of range, signal disrupted	Engine speed above warning threshold (Overrun Mode)
412	108	3	2-9-2	Sensorfehler Umgebungsluftdruck; Signalbereich überschritten	Sensorfehler Umgebungsluftdruck; Signalbereich überschritten	Sensor error ambient air pressure; signal range check high	Sensor error ambient air pressure; signal range check high
413	108	4	2-9-2	Sensorfehler Umgebungsluftdruck; Signalbereich unterschritten	Sensorfehler Umgebungsluftdruck; Signalbereich unterschritten	Sensor error ambient air pressure; signal range check low	Sensor error ambient air pressure; signal range check low
417	171	3	3-1-2	Sensorfehler Umgebungslufttemperatur; Signalbereich überschritten	Sensorfehler Umgebungslufttemperatur; Signalbereich überschritten	Sensor error environment temperature; signal range check high	Sensor error environment temperature; signal range check high
418	171	4	3-1-2	Sensorfehler Umgebungslufttemperatur; Signalbereich unterschritten	Sensorfehler Umgebungslufttemperatur; Signalbereich unterschritten	Sensor error environment temperature; signal range check low	Sensor error environment temperature; signal range check low
419	190	8	2-1-2	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Sensor Nockenwellendrehzahl; Signal gestört	Speed detection; out of range, signal disrupted	Sensor camshaft speed; disturbed signal
420	190	12	2-1-2	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Sensor Nockenwellendrehzahl; kein Signal	Speed detection; out of range, signal disrupted	Sensor camshaft speed; no signal
421	190	2	2-1-3	Abweichung zwischen Kurbel-und Nockenwelle Sensor Synchronisation ist zu groß	Abweichung zwischen Kurbel-und Nockenwelle Sensor Synchronisation ist zu groß	Offset angle between crank- and camshaft sensor is too large	Offset angle between crank- and camshaft sensor is too large
422	190	8	2-1-2	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Sensor Kurbelwellendrehzahl; Signal gestört	Speed detection; out of range, signal disrupted	Sensor crankshaft speed; disturbed signal

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
423	190	12	2-1-2	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Sensor Kurbelwellendrehzahl; kein Signal	Speed detection; out of range, signal disrupted	Sensor crankshaft speed; no signal
424	703	5	1-4-2	Motor läuft Lampe; Kabelbruch	Motor läuft Lampe; Kabelbruch	Engine running lamp; open load	Engine running lamp; open load
425	703	12	1-4-2	Motor läuft Lampe; Leistungsstufe Übertemperatur	Motor läuft Lampe; Leistungsstufe Übertemperatur	Engine running lamp; powerstage over temperature	Engine running lamp; powerstage over temperature
426	703	3	1-4-2	Motor läuft Lampe; Batteriekurzschluss	Motor läuft Lampe; Batteriekurzschluss	Engine running lamp; short circuit to battery	Engine running lamp; short circuit to battery
427	703	4	1-4-2	Motor läuft Lampe; Massekurzschluss	Motor läuft Lampe; Massekurzschluss	Engine running lamp; short circuit to ground	Engine running lamp; short circuit to ground
450	975	5	2-2-8	Lüftersteuerung; Kabelbruch	Digitale Lüfterkontrolle; Kabelbruch	Fan control; open load	Digital fan control; open load
451	975	12	2-2-8	Lüftersteuerung; Interner Fehler	Digitale Lüfterkontrolle; Leistungsstufe Übertemperatur	Fan control; internal error	Digital fan control; powerstage over temperature
452	975	3	2-2-8	Lüftersteuerung; Batteriekurzschluss	Digitale Lüfterkontrolle; Batteriekurzschluss	Fan control; short circuit to battery	Digital fan control; short circuit to battery
453	975	4	2-2-8	Lüftersteuerung; Massekurzschluss	Digitale Lüfterkontrolle; Massekurzschluss	Fan control; short circuit to ground	Digital fan control; short circuit to ground
455	975	5	2-2-8	Lüftersteuerung; Kabelbruch	Lüfter Aktuator (PWM Ausgang); Kabelbruch	Fan control; open load	Fan actuator (PWM output); open load
456	975	12	2-2-8	Lüftersteuerung; Interner Fehler	Lüfter Aktuator (PWM Ausgang); Leistungsstufe Übertemperatur	Fan control; internal error	Fan actuator (PWM output); powerstage over temperature
457	975	3	2-2-8	Lüftersteuerung; Batteriekurzschluss	Lüfter Aktuator(PWM Ausgang); Batteriekurzschluss	Fan control; short circuit to battery	Fan actuator (PWM output); short circuit to battery
458	975	4	2-2-8	Lüftersteuerung; Massekurzschluss	Lüfter Aktuator (PWM Ausgang); Massekurzschluss	Fan control; short circuit to ground	Fan actuator (PWM output); short circuit to ground
460	1639	0	2-2-8	Sensorfehler Lüfterdrehzahl; Signalbereich überschritten	Sensorfehler Lüfterdrehzahl; Signalbereich überschritten	Sensor error fan speed; signal range check high	Sensor error fan speed; signal range check high
461	1639	1	2-2-8	Sensorfehler Lüfterdrehzahl; Signalbereich unterschritten	Sensorfehler Lüfterdrehzahl; Signalbereich unterschritten	Sensor error fan speed; signal range check low	Sensor error fan speed; signal range check low
462	523602	0	2-2-8	Lüfterdrehzahl; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Lüfterdrehzahl zu hoch; Warnschwelle erreicht	Fan control; out of range, system reaction initiated	High fan speed; warning threshold exceeded
463	523602	0	2-2-8	Lüfterdrehzahl; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Lüfterdrehzahl zu hoch; Abschaltschwelle erreicht	Fan control; out of range, system reaction initiated	High fan speed; shut off threshold exceeded
464	97	3	2-2-8	Sensorfehler Wasser in Kraftstoff; Signalbereich überschritten	Sensorfehler Wasser in Kraftstoff; Signalbereich überschritten	Sensor error water in fuel; signal range check high	Sensor error water in fuel; signal range check high
465	97	4	2-2-8	Sensorfehler Wasser in Kraftstoff; Signalbereich unterschritten	Sensorfehler Wasser in Kraftstoff; Signalbereich unterschritten	Sensor error water in fuel; signal range check low	Sensor error water in fuel; signal range check low
472	94	3	2-1-6	Sensorfehler Kraftstoffvordruck; Signalbereich überschritten	Sensorfehler Kraftstoffvordruck; Signalbereich überschritten	Sensor error low fuel pressure; signal range check high	Sensor error low fuel pressure; signal range check high
473	94	4	2-1-6	Sensorfehler Kraftstoffvordrucksensor; Signalbereich unterschritten	Sensorfehler Kraftstoffvordrucksensor; Signalbereich unterschritten	Sensor error low fuel pressure; signal range check low	Sensor error low fuel pressure; signal range check low
474	94	1	2-1-6	Kraftstoffvordruck zu niedrig; Systemreaktion ausgelöst	Kraftstoffvordruck zu niedrig; Warnschwelle erreicht	Low fuel pressure; system reaction initiated	Low fuel pressure; warning threshold exceeded
475	94	1	2-1-6	Kraftstoffvordruck zu niedrig; Systemreaktion ausgelöst	Kraftstoffvordruck zu niedrig; Abschaltschwelle erreicht	Low fuel pressure; system reaction initiated	Low fuel pressure; shut off threshold exceeded
481	174	0	2-3-7	Kraftstofftemperatur zu hoch; Warnschwelle erreicht	Kraftstofftemperatur zu hoch; Warnschwelle erreicht	High low fuel temperature; warning threshold exceeded	High low fuel temperature; warning threshold exceeded
482	174	0	2-3-7	Kraftstofftemperatur zu hoch; Abschaltschwelle erreicht	Kraftstofftemperatur zu hoch; Abschaltschwelle erreicht	High Low fuel temperature; shut off threshold exceeded	High Low fuel temperature; shut off threshold exceeded
488	523619	2	1-3-3	Abgastemperatur vor (SCR-CAT); Maximalwert überschritten	Abgastemperatur vor (SCR-CAT); Maximalwert überschritten	Physical range check high for exhaust gas temperature upstrem (SCR-CAT)	Physical range check high for exhaust gas temperature upstrem (SCR-CAT)
500	523915	0	7-2-0	HCI Dosierventil (DV1); Überstrom am Ende der Einspritzphase	HCI Dosierventil (DV1); Überstrom am Ende der Einspritzphase	HCI dosing valve (DV1); overcurrent at the end of the injection phase	HCI dosing valve (DV1); overcurrent at the end of the injection phase
501	523915	12	7-2-0	HCI Dosierventil (DV1); Leistungsstufe Übertemperature	HCI Dosierventil (DV1); Leistungsstufe Übertemperature	HCI dosing valve (DV1); powerstage over temperature	HCI dosing valve (DV1); powerstage over temperature
502	523915	3	7-2-0	HCI Dosierventil (DV1); Batteriekurzschluss	HCI Dosierventil (DV1); Batteriekurzschluss	HCI dosing valve (DV1); short circuit to battery	HCI dosing valve (DV1); short circuit to battery
503	523915	3	7-2-0	HCI Dosierventil (DV1); Batteriekurzschluss	HCI Dosierventil (DV1); Batteriekurzschluss plusseitig	HCI dosing valve (DV1); short circuit to battery	HCI dosing valve (DV1); short circuit to battery high side
504	523915	4	7-2-0	HCI Dosierventil (DV1); Massekurzschluss	HCI Dosierventil (DV1); Massekurzschluss	HCI dosing valve (DV1); short circuit to ground	HCI dosing valve (DV1); short circuit to ground
505	523915	11	7-2-0	HCI Dosierventil (DV1); Kurzschluss Leistungsstufe plusseitig	HCI Dosierventil (DV1); Kurzschluss Leistungsstufe plusseitig	HCI dosing valve (DV1); short circuit high side powerstage	HCI dosing valve (DV1); short circuit high side powerstage
506	523916	2	7-1-9	Sensor Kraftstoffdruck nach HCI Dosierventil (DV1); Signal unplausibel	Sensor Kraftstoffdruck nach HCI Dosierventil (DV1); Signal unplausibel	Sensor HCI dosing valve (DV1) downstream pressure; plausibility error	Sensor HCI dosing valve (DV1) downstream pressure; plausibility error
508	523916	0	7-1-9	Druck nach HCI Dosierventil (DV1) Maximalwert überschritten; Abschaltung Regeneration	Druck nach HCI Dosierventil (DV1) Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for HCI dosing valve (DV1) downstream pressure; shut off regeneration	Physical range check high for HCI dosing valve (DV1) downstream pressure; shut off regeneration
511	523916	1	7-1-9	Druck nach HCI Dosierventil (DV1) Minimalwert unterschritten; Abschaltung Regeneration	Druck nach HCI Dosierventil (DV1) Minimalwert unterschritten; Abschaltung Regeneration	Physical range check low for HCI dosing valve (DV1) downstream pressure; shut off regeneration	Physical range check low for HCI dosing valve (DV1) downstream pressure; shut off regeneration
514	523916	3	7-1-9	Sensorfehler Druck nach HCI Dosierventil (DV1); Signalbereich überschritten	Sensorfehler Druck nach HCI Dosierventil (DV1); Signalbereich überschritten	Sensor error HCI dosing valve (DV1) downstream pressure; signal range check high	Sensor error HCI dosing valve (DV1) downstream pressure; signal range check high
515	523916	4	7-1-9	Sensorfehler Druck nach HCI Dosierventil (DV1); Signalbereich unterschritten	Sensorfehler Druck nach HCI Dosierventil (DV1); Signalbereich unterschritten	Sensor error HCI dosing valve (DV1) downstream pressure; signal range check low	Sensor error HCI dosing valve (DV1) downstream pressure; signal range check low
516	523917	2	7-1-8	Sensor Druck vor DV1 & DV2; Signal unplausibel	Sensor Druck vor DV1 & DV2; Signal unplausibel	Sensor DV1 & DV2 upstream pressure; plausibility error	Sensor DV1 & DV2 upstream pressure; plausibility error
518	523917	0	7-1-8	Druck vor DV1 & DV2 Maximalwert überschritten; Abschaltung Regeneration	Druck vor DV1 & DV2 Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for DV1 & DV2 upstream pressure; shut off regeneration	Physical range check high for DV1 & DV2 upstream pressure; shut off regeneration
521	523917	1	7-1-8	Druck vor DV1 & DV2 Maximalwert unterschritten; Abschaltung Regeneration	Druck vor DV1 & DV2 Maximalwert unterschritten; Abschaltung Regeneration	Physical range check low for DV1 & DV2 upstream pressure; shut off regeneration	Physical range check low for DV1 & DV2 upstream pressure; shut off regeneration
524	523917	3	7-1-8	Sensorfehler Druck vor DV1 & DV2; Signalbereich überschritten	Sensorfehler Druck vor DV1 & DV2; Signalbereich überschritten	Sensor error DV1 & DV2 upstream pressure; signal range check high	Sensor error DV1 & DV2 upstream pressure; signal range check high
525	523917	4	7-1-8	Sensorfehler Druck vor DV1 & DV2; Signalbereich unterschritten	Sensorfehler Druck vor DV1 & DV2; Signalbereich unterschritten	Sensor error DV1 & DV2 upstream pressure; signal range check low	Sensor error DV1 & DV2 upstream pressure; signal range check low
526	523918	2	7-1-7	Sensor Temperatur vor DV1 & DV2; Signal unplausibel	Sensor Temperatur vor DV1 & DV2; Signal unplausibel	Sensor DV1 & DV2 upstream temperature; plausibility error	Sensor DV1 & DV2 upstream temperature; plausibility error
528	523918	0	7-1-7	Temperatur vor DV1 & DV2 Maximalwert überschritten; Abschaltung Regeneration	Temperatur vor DV1 & DV2 Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for DV1 & DV2 upstream temperature; shut off regeneration	Physical range check high for DV1 & DV2 upstream temperature; shut off regeneration
531	523918	1	7-1-7	Temperatur vor DV1 & DV2 Minimalwert unterschritten; Abschaltung Regeneration	Temperatur vor DV1 & DV2 Minimalwert unterschritten; Abschaltung Regeneration	Physical range check low for DV1 & DV2 upstream temperature; shut off regeneration	Physical range check low for DV1 & DV2 upstream temperature; shut off regeneration
534	523918	3	7-1-7	Sensorfehler Temperatur vor DV1 & DV2; Signalbereich überschritten	Sensorfehler Temperatur vor DV1 & DV2; Signalbereich überschritten	Sensor error DV1 & DV2 upstream temperature; signal range check high	Sensor error DV1 & DV2 upstream temperature; signal range check high
535	523918	4	7-1-7	Sensorfehler Temperatur vor DV1 & DV2; Signalbereich unterschritten	Sensorfehler Temperatur vor DV1 & DV2; Signalbereich unterschritten	Sensor error DV1 & DV2 upstream temperature; signal range check low	Sensor error DV1 & DV2 upstream temperature; signal range check low
543	676	11	2-6-3	Relais Kaltstarthilfe; Kabelbruch, defekt	Relais Kaltstarthilfe defekt	Cold start aid relay; open load, relay error.	Cold start aid relay error.
544	676	11	2-6-3	Relais Kaltstarthilfe; Kabelbruch, defekt	Relais Kaltstarthilfe Kabelbruch	Cold start aid relay; open load, relay error.	Cold start aid relay open load
545	729	5	2-6-3	Relais Kaltstarthilfe Kabelbruch	Relais Kaltstarthilfe Kabelbruch	Cold start aid relay open load	Cold start aid relay open load
547	729	12	2-6-3	Relais Kaltstarthilfe; Leistungsstufe Übertemperatur	Relais Kaltstarthilfe; Leistungsstufe Übertemperatur	Cold start aid relay; over temperature error	Cold start aid relay; over temperature error
559	523895	13	7-0-6	Fehlender Injektor Korrekturwert (IMA) Injektor 1 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 1 (nach Zündfolge)	Check of missing injector adjustment value programming (IMA) injector 1 (in firing order)	Check of missing injector adjustment value programming (IMA) injector 1 (in firing order)
560	523896	13	7-0-7	Fehlender Injektor Korrekturwert (IMA) Injektor 2 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 2 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 2 (in firing order)	check of missing injector adjustment value programming (IMA) injector 2 (in firing order)
561	523897	13	7-0-8	Fehlender Injektor Korrekturwert (IMA) Injektor 3 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 3 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 3 (in firing order)	check of missing injector adjustment value programming (IMA) injector 3 (in firing order)
562	523898	13	7-0-9	Fehlender Injektor Korrekturwert (IMA) Injektor 4 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 4 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 4 (in firing order)	check of missing injector adjustment value programming (IMA) injector 4 (in firing order)
563	523899	13	7-1-0	Fehlender Injektor Korrekturwert (IMA) Injektor 5 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 5 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 5 (in firing order)	check of missing injector adjustment value programming (IMA) injector 5 (in firing order)
564	523900	13	7-1-1	Fehlender Injektor Korrekturwert (IMA) Injektor 6 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 6 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 6 (in firing order)	check of missing injector adjustment value programming (IMA) injector 6 (in firing order)
565	523350	4	1-5-1	Injector Zylinder-Bank 1; Kurzschluss	Injector Zylinder-Bank 1; Kurzschluss	Injector cylinder-bank 1; short circuit	Injector cylinder-bank 1; short circuit
566	523352	4	1-5-2	Injector Zylinder-Bank 2; Kurzschluss	Injector Zylinder-Bank 2; Kurzschluss	Injector cylinder-bank 2; short circuit	Injector cylinder-bank 2; short circuit
567	523354	12	1-5-3	Injektoransteuerung defekt	Injektoransteuerung defekt	Injector powerstage output defect	Injector powerstage output defect
568	651	5	1-5-4	Injektor 1 (nach Zündfolge); Stromunterbrechung	Injektor 1 (nach Zündfolge); Stromunterbrechung	Injector 1 (in firing order); interruption of electric connection	Injector 1 (in firing order); interruption of electric connection
569	652	5	1-5-5	Injektor 2 (nach Zündfolge); Stromunterbrechung	Injektor 2 (nach Zündfolge); Stromunterbrechung	Injector 2 (in firing order); interruption of electric connection	Injector 2 (in firing order); interruption of electric connection
570	653	5	1-5-6	Injektor 3 (nach Zündfolge); Stromunterbrechung	Injektor 3 (nach Zündfolge); Stromunterbrechung	Injector 3 (in firing order); interruption of electric connection	Injector 3 (in firing order); interruption of electric connection
571	654	5	1-6-1	Injektor 4 (nach Zündfolge); Stromunterbrechung	Injektor 4 (nach Zündfolge); Stromunterbrechung	Injector 4 (in firing order); interruption of electric connection	Injector 4 (in firing order); interruption of electric connection
572	655	5	1-6-2	Injektor 5 (nach Zündfolge); Stromunterbrechung	Injektor 5 (nach Zündfolge); Stromunterbrechung	Injector 5 (in firing order); interruption of electric connection	Injector 5 (in firing order); interruption of electric connection

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
573	656	5	1-6-3	Injektor 6 (nach Zündfolge); Stromunterbrechung	Injektor 6 (nach Zündfolge); Stromunterbrechung	Injector 6 (in firing order); interruption of electric connection	Injector 6 (in firing order); interruption of electric connection
580	651	3	1-5-4	Injektor 1 (nach Zündfolge); Kurzschluss	Injektor 1 (nach Zündfolge); Kurzschluss	Injector 1 (in firing order); short circuit	Injector 1 (in firing order); short circuit
581	652	3	1-5-5	Injektor 2 (nach Zündfolge); Kurzschluss	Injektor 2 (nach Zündfolge); Kurzschluss	Injector 2 (in firing order); short circuit	Injector 2 (in firing order); short circuit
582	653	3	1-5-6	Injektor 3 (nach Zündfolge); Kurzschluss	Injektor 3 (nach Zündfolge); Kurzschluss	Injector 3 (in firing order); short circuit	Injector 3 (in firing order); short circuit
583	654	3	1-6-1	Injektor 4 (nach Zündfolge); Kurzschluss	Injektor 4 (nach Zündfolge); Kurzschluss	Injector 4 (in firing order); short circuit	Injector 4 (in firing order); short circuit
584	655	3	1-6-2	Injektor 5 (nach Zündfolge); Kurzschluss	Injektor 5 (nach Zündfolge); Kurzschluss	Injector 5 (in firing order); short circuit	Injector 5 (in firing order); short circuit
585	656	3	1-6-3	Injektor 6 (nach Zündfolge); Kurzschluss	Injektor 6 (nach Zündfolge); Kurzschluss	Injector 6 (in firing order); short circuit	Injector 6 (in firing order); short circuit
586	651	4	1-5-4	Kurzschluss im Injektor 1 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 1 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 1 (in firing order)	High side to low side short circuit in the injector 1 (in firing order)
587	652	4	1-5-5	Kurzschluss im Injektor 2 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 2 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 2 (in firing order)	High side to low side short circuit in the injector 2 (in firing order)
588	653	4	1-5-6	Kurzschluss im Injektor 3 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 3 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 3 (in firing order)	High side to low side short circuit in the injector 3 (in firing order)
589	654	4	1-6-1	Kurzschluss im Injektor 4 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 4 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 4 (in firing order)	High side to low side short circuit in the injector 4 (in firing order)
590	655	4	1-6-2	Kurzschluss im Injektor 5 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 5 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 5 (in firing order)	High side to low side short circuit in the injector 5 (in firing order)
591	656	4	1-6-3	Kurzschluss im Injektor 6 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 6 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 6 (in firing order)	High side to low side short circuit in the injector 6 (in firing order)
592	523615	5	1-3-5	Zumesseinheit (Kraftstoffsystem); Kabelbruch	Zumesseinheit (Kraftstoffsystem); Kabelbruch	Metering unit (Fuel-System); open load	Metering unit (Fuel-System); open load
593	523615	12	1-3-5	Zumesseinheit (Kraftstoffsystem); Leistungsstufe Übertemperatur	Zumesseinheit (Kraftstoffsystem); Leistungsstufe Übertemperatur	Metering unit (Fuel-System); powerstage over temperature	Metering unit (Fuel-System); powerstage over temperature
594	523615	3	1-3-5	Zumesseinheit (Kraftstoff-System); Batteriekurzschluss	Zumesseinheit (Kraftstoff-System); Batteriekurzschluss plusseitig	Metering unit (Fuel-System); short circuit to battery	Metering unit (Fuel-System); short circuit to battery highside
595	523615	4	1-3-5	Zumesseinheit (Kraftstoffsystem); Massekurzschluss	Zumesseinheit (Kraftstoffsystem); Massekurzschluss plusseitig	Metering unit (Fuel-System); short circuit to ground	Metering unit (Fuel-System); short circuit to ground high side
596	523615	3	1-3-5	Zumesseinheit (Kraftstoff-System); Batteriekurzschluss	Zumesseinheit (Kraftstoffsystem); Batteriekurzschluss minusseitig	Metering unit (Fuel-System); short circuit to battery	Metering unit (Fuel-System); short circuit to battery low side
597	523615	4	1-3-5	Zumesseinheit (Kraftstoffsystem); Massekurzschluss	Zumesseinheit (Kraftstoffsystem); Massekurzschluss minusseitig	Metering unit (Fuel-System); short circuit to ground	Metering Unit (Fuel-System); short circuit to ground low side
604	1323	12	2-4-1	Zu viele Fehlzündungen in Zylinder 1 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 1 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 1 (in firing order)	Too many recognized misfires in cylinder 1 (in firing order)
605	1324	12	2-4-1	Zu viele Fehlzündungen in Zylinder 2 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 2 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 2 (in firing order)	Too many recognized misfires in cylinder 2 (in firing order)
606	1325	12	2-4-1	Zu viele Fehlzündungen in Zylinder 3 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 3 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 3 (in firing order)	Too many recognized misfires in cylinder 3 (in firing order)
607	1326	12	2-4-1	Zu viele Fehlzündungen in Zylinder 4 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 4 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 4 (in firing order)	Too many recognized misfires in cylinder 4 (in firing order)
608	1327	12	2-4-1	Zu viele Fehlzündungen in Zylinder 5 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 5 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 5 (in firing order)	Too many recognized misfires in cylinder 5 (in firing order)
609	1328	12	2-4-1	Zu viele Fehlzündungen in Zylinder 6 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 6 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 6 (in firing order)	Too many recognized misfires in cylinder 6 (in firing order)
610	1322	12	2-4-1	Zu viele Fehlzündungen in mehreren Zylindern erkannt	Zu viele Fehlzündungen in mehreren Zylindern erkannt	Too many recognized misfires in more than one cylinder	Too many recognized misfires in more than one cylinder
612	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
613	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
614	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
615	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
616	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
617	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
618	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
619	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
620	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
621	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
623	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
624	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
625	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
627	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
628	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
637	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Steuergeräte interner Software Fehler	ECU reported internal software error	Internal ECU monitoring detection reported error
648	523008	1	4-2-4	Manipulationskontrolle wurde ausgelöst	Manipulationskontrolle wurde ausgelöst	Manipulation control was triggered	Manipulation control was triggered
649	523008	2	4-2-4	Manipulationskontrolle meldet Timeout Fehler	Manipulationskontrolle meldet Timeout Fehler	Timeout error in Manipulation control	Timeout error in Manipulation control
732	100	3	2-2-4	Sensorfehler Öldruck; Signalbereich überschritten	Sensorfehler Öldruck; Signalbereich überschritten	Sensor error oil pressure; signal range check high	Sensor error oil pressure; signal range check high
733	100	4	2-2-4	Sensorfehler Öldruck, Signalbereich unterschritten	Sensorfehler Öldruck, Signalbereich unterschritten	Sensor error oil pressure sensor; signal range check low	Sensor error oil pressure sensor; signal range check low
734	100	0	2-3-1	Öldruck; Systemreaktion ausgelöst	Öldruck zu hoch; Warnschwelle erreicht	High oil pressure; system reaction initiated	High oil pressure; warning threshold exceeded
735	100	0	2-3-1	Öldruck; Systemreaktion ausgelöst	Öldruck zu hoch; Abschaltschwelle erreicht	High oil pressure; system reaction initiated	High oil pressure; shut off threshold exceeded
736	100	1	2-3-1	Öldruck; Systemreaktion ausgelöst	Öldruck zu niedrig; Warnschwelle erreicht	High oil pressure; system reaction initiated	Low oil pressure; warning threshold exceeded
737	100	1	2-3-1	Öldruck; Systemreaktion ausgelöst	Öldruck zu niedrig; Abschaltschwelle erreicht	High oil pressure; system reaction initiated	Low oil pressure; shut off threshold exceeded
738	175	2	1-4-4	Motoröltemperatur; Signal unplausibel	Sensor Motoröltemperatur; Signal unplausibel	Oil temperature; plausibility error	Sensor oil temperature; plausibility error
739	175	2	1-4-4	Motoröltemperatur; Signal unplausibel	Sensor Motoröltemperatur; Signal unplausibel hoch	Oil temperature; plausibility error	Sensor oil temperature; plausibility error oil temperature too high
740	175	0	1-4-4	Motoröltemperatur; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Öltemperatur; Maximalwert überschritten	Oil temperature; out of range, system reaction initiated	Physical range check high for oil temperature
741	175	1	1-4-4	Öltemperatur, Minimalwert unterschritten	Öltemperatur, Minimalwert unterschritten	Physical range check low for oil temperature	Physical range check low for oil temperature
743	175	3	1-4-4	Sensorfehler Öltemperatur; Signalbereich überschritten	Sensorfehler Öltemperatur; Signalbereich überschritten	Sensor error oil temperature; signal range check high	Sensor error oil temperature; signal range check high
744	175	4	1-4-4	Sensorfehler Öltemperatur; Signalbereich unterschritten	Sensorfehler Öltemperatur; Signalbereich unterschritten	Sensor error oil temperature; signal range check low	Sensor error oil temperature; signal range check low
745	175	0	1-4-4	Motoröltemperatur; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Öltemperatur zu hoch; Warnschwelle erreicht	Oil temperature; out of range, system reaction initiated	High oil temperature; warning threshold exceeded
746	175	0	1-4-4	Motoröltemperatur; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Öltemperatur zu hoch; Abschaltschwelle erreicht	Oil temperature; out of range, system reaction initiated	High oil temperature; shut off threshold exceeded
747	1237	2	1-4-5	Überbrückungsschalter; Signal unplausibel	Überbrückungsschalter; Signal unplausibel	Override switch; plausibility error	Override switch; plausibility error
750	107	3	1-3-6	Sensorfehler Luftfilter Differenzdruck; Batteriekurzschluss	Sensorfehler Luftfilter Differenzdruck; Batteriekurzschluss	Sensor error airfilter differential pressure; short circuit to battery	Sensor error airfilter differential pressure; short circuit to battery
751	107	4	1-3-6	Sensorfehler Luftfilter Differenzdruck; Massekurzschluss	Sensorfehler Luftfilter Differenzdruck; Massekurzschluss	Sensor error airfilter differential pressure; short circuit to ground	Sensor error airfilter differential pressure; short circuit to ground
752	107	0	1-3-6	Luftfilter Differenzdruck; Systemreaktion ausgelöst	Luftfilter Differenzdruck zu hoch; Warnschwelle erreicht	Air filter differential pressure; system reaction initiated	High air filter differential pressure; warning threshold exceeded
753	523919	2	6-9-4	Sensor Luftdruck Luftpumpe; Signal unplausibel	Sensor Luftdruck Luftpumpe; Signal unplausibel	Sensor airpump pressure; plausibility error	Sensor airpump pressure; plausibility error
755	523919	0	6-9-4	Luftdruck Luftpumpe Maximalwert überschritten; Abschaltung Regeneration	Luftdruck Luftpumpe Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for airpump pressure; shut off regeneration	Physical range check high for airpump pressure; shut off regeneration
758	523919	1	6-9-4	Luftdruck Luftpumpe Minimalwert unterschritten; Abschaltung Regeneration	Luftdruck Luftpumpe Minimalwert unterschritten; Abschaltung Regeneration	Physical range check low for airpump pressure; shut off regeneration	Physical range check low for airpump pressure; shut off regeneration
761	523919	3	6-9-4	Sensorfehler Luftdruck Luftpumpe; Signalbereich überschritten	Sensorfehler Luftdruck Luftpumpe; Signalbereich überschritten	Sensor error airpump pressure; signal range check high	Sensor error airpump pressure; signal range check high
762	523919	4	6-9-4	Sensorfehler Luftdruck Luftpumpe; Signalbereich unterschritten	Sensorfehler Luftdruck Luftpumpe; Signalbereich unterschritten	Sensor error airpump pressure; signal range check low	Sensor error airpump pressure; signal range check low
763	523920	2	7-1-6	Sensor Abgasgegendruck Brenner; Signal unplausibel	Sensor Abgasgegendruck Brenner; Signal unplausibel	Sensor exhaustgas back pressure; plausibility error	Sensor exhaustgas back pressure; plausibility error
765	523920	0	7-1-6	Abgasgegendruck Brenner Maximalwert überschritten; Abschaltung Regeneration	Abgasgegendruck Brenner Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for exhaustgas back pressure burner; shut off regeneration	Physical range check high for exhaustgas back pressure burner; shut off regeneration

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
768	523920	1	7-1-6	Abgasgegendruck Brenner Minimalwert unterschritten; Abschaltung Regeneration	Abgasgegendruck Brenner Minimalwert unterschritten; Abschaltung Regeneration	Physical range check low for exhaustgas back pressure burner; shut off regeneration	Physical range check low for exhaustgas back pressure burner; shut off regeneration
770	523920	3	7-1-6	Sensorfehler Abgasgegendruck Brenner; Signalbereich überschritten	Sensorfehler Abgasgegendruck Brenner; Signalbereich überschritten	Sensor error exhaustgas back pressure burner; signal range check high	Sensor error exhaustgas back pressure burner; signal range check high
771	523920	4	7-1-6	Sensorfehler Abgasgegendruck Brenner; Signalbereich unterschritten	Sensorfehler Abgasgegendruck Brenner; Signalbereich unterschritten	Sensor error exhaustgas back pressure burner; signal range check low	Sensor error exhaustgas back pressure burner; signal range check low
776	102	3	2-2-3	Sensorfehler Ladeluftdruck; Signalbereich überschritten	Sensorfehler Ladeluftdruck; Signalbereich überschritten	Sensor error charged air pressure; signal range check high	Sensor error charged air pressure; signal range check high
777	102	4	2-2-3	Sensorfehler Ladeluftdruck; Signalbereich unterschritten	Sensorfehler Ladeluftdruck; Signalbereich unterschritten	Sensor error charged air pressure; signal range check low	Sensor error charged air pressure; signal range check low
791	411	0	6-9-3	Differenzdruck Venturieinheit (AGR); Maximalwert überschritten	Differenzdruck Venturieinheit (AGR); Maximalwert überschritten	Physical range check high for differential pressure Venturiunit (EGR)	Physical range check high for differential pressure Venturiunit (EGR)
792	411	1	6-9-3	Differenzdruck Venturieinheit (AGR); Maximalwert überschritten	Differenzdruck Venturieinheit (AGR); Maximalwert überschritten	Physical range check low for differential pressure Venturiunit (EGR)	Physical range check low for differential pressure Venturiunit (EGR)
795	411	3	6-9-3	Sensorfehler Differenzdruck Venturieinheit (AGR); Signalbereich überschritten	Sensorfehler Differenzdruck Venturieinheit (AGR); Signalbereich überschritten	Sensor error differential pressure Venturiunit (EGR); signal range check high	Sensor error differential pressure Venturiunit (EGR); signal range check high
796	411	4	6-9-3	Sensorfehler Differenzdruck Venturieinheit (AGR); Signalbereich unterschritten	Sensorfehler Differenzdruck Venturieinheit (AGR); Signalbereich unterschritten	Sensor error differential pressure Venturiunit (EGR); signal range check low	Sensor error differential pressure Venturiunit (EGR); signal range check low
805	524025	14		Partikel Filter; Regeneration nicht erfolgreich	Partikel Filter; Regeneration nicht erfolgreich	Particulate filter; regeneration not succesful	Particulate filter; regeneration not succesful
807	3253	2	6-9-2	Sensor Differenzdruck (DPF); Signal unplausibel	Sensor Differenzdruck (DPF); Signal unplausibel bezüglich Signaloffset	Sensor differential pressure (DPF); plausibility error	Sensor differential pressure (DPF); plausibility error regarding signal offset
809	3251	0	6-9-2	Differenzdruck (DPF) Maximalwert überschritten; Abschaltung Regeneration	Differenzdruck (DPF) Maximalwert überschritten; Abschaltung Regeneration	Physical range check high for differential pressure (DPF); shut off regeneration	Physical range check high for differential pressure (DPF); shut off regeneration
812	3251	1	6-9-2	Differenzdruck (DPF) Minimalwert unterschritten; Abschaltung Regeneration	Differenzdruck (DPF) Minimalwert unterschritten; Abschaltung Regeneration	Physical range check low for differential pressure (DPF); shut off regeneration	Physical range check low for differential pressure (DPF); shut off regeneration
814	3253	3	6-9-2	Sensorfehler Differenzdruck (DPF); Signalbereich überschritten	Sensorfehler Differenzdruck (DPF); Signalbereich überschritten	Sensor error differential pressure (DPF); signal range check high	Sensor error differential pressure (DPF); signal range check high
815	3253	4	6-9-2	Sensorfehler Differenzdruck (DPF); Signalbereich unterschritten	Sensorfehler Differenzdruck (DPF); Signalbereich unterschritten	Sensor error differential pressure (DPF); signal range check low	Sensor error differential pressure (DPF); signal range check low
825	523009	9	2-5-3	Druckbegrenzungsventil (DBV) hat maximale Anzahl an Schaltvorgängen erreicht	Druckbegrenzungsventil (DBV) hat maximale Anzahl an Schaltvorgängen erreicht	Pressure Relief Valve (PRV) reached maximun allowed opening count	Pressure Relief Valve (PRV) reached maximun allowed opening count
826	523470	2	1-4-6	Druckbegrenzungsventil (DBV); Zwangsgeöffnet	Druckbegrenzungsventil (DBV) hat wegen Druckanstieg zwangsgeöffnet	Pressure Relief Valve (PRV) forced to open	Pressure Relief Valve (PRV) forced to open; performed by pressure increase
827	523470	2	1-4-6	Druckbegrenzungsventil (DBV); Zwangsgeöffnet	Druckbegrenzungsventil (DBV) hat wegen Druckstoß zwangsgeöffnet	Pressure Relief Valve (PRV) forced to open	Pressure Relief Valve (PRV) forced to open; performed by pressure shock
828	523470	12	1-4-6	Druckbegrenzungsventil (DBV); Zwangsgeöffnet, Systemreaktion ausgelöst	Druckbegrenzungsventil (DBV) geöffnet; Abschaltung	Pressure Relief Valve (PRV) forced to open; system reaction initiated	Open Pressure Relief Valve (PRV); shut off condition
829	523470	12	1-4-6	Druckbegrenzungsventil (DBV); Zwangsgeöffnet, Systemreaktion ausgelöst	Druckbegrenzungsventil (DBV) geöffnet; Warnung	Pressure Relief Valve (PRV) forced to open; system reaction initiated	Open Pressure Relief Valve (PRV); warning condition
830	523470	14	1-4-6	Druckbegrenzungsventil (DBV) ist geöffnet	Druckbegrenzungsventil (DBV) ist geöffnet	Pressure Relief Valve (PRV) is open	Pressure Relief Valve (PRV) is open
831	523470	11	1-4-6	Druckbegrenzungsventil (DBV) Fehler; Raildruck außerhalb Toleranzbereich	Das DBV kann in diesem Betriebspunkt nicht von einem Druckstoß geöffnet werden	Pressure Relief Valve (PRV) error; Rail pressure out of tolerance range	The PRV can not be opened at this operating point with a pressure shock
832	523470	11	1-4-6	Druckbegrenzungsventil (DBV) Fehler; Raildruck außerhalb Toleranzbereich	Raildruck außerhalb Toleranzbereich	Rail pressure out of tolerance range	Rail pressure out of tolerance range
833	523009	10	2-5-3	Druckbegrenzungsventil (DBV) hat maximal erlaubte Öffnungszeit überschritten	Druckbegrenzungsventil (DBV) hat maximal erlaubte Öffnungszeit überschritten	Pressure relief valve (PRV) reached maximun allowed open time	Pressure relief valve (PRV) reached maximun allowed open time
838	523450	3	1-4-3	Mehrstufenschalter feste Motordrehzahl; Batteriekurzschluss	Mehrstufenschalter feste Motordrehzahl; Batteriekurzschluss	Multiple Stage Switch constant speed; short circuit to battery	Multiple Stage Switch constant speed; short circuit to battery
839	523450	4	1-4-3	Mehrstufenschalter feste Motordrehzahl; Massekurzschluss	Mehrstufenschalter feste Motordrehzahl; Massekurzschluss	Multiple Stage Switch constant speed; short circuit to ground	Multiple Stage Switch constant speed; short circuit to ground
840	523450	2	1-4-3	Mehrstufenschalter feste Motordrehzahl; Signal unplausibel	Mehrstufenschalter feste Motordrehzahl; Signal unplausibel	Multiple Stage Switch constant speed; plausibility error	Multiple Stage Switch constant speed; plausibility error
841	523451	3	1-4-3	Mehrstufenschalter Drehzahlreglerparameter; Batteriekurzschluss	Mehrstufenschalter Drehzahlreglerparameter; Batteriekurzschluss	Multiple Stage Switch engine speed control parameter; short circuit to battery	Multiple Stage Switch engine speed control parameter; short circuit to battery
842	523451	4	1-4-3	Mehrstufenschalter Drehzahlreglerparameter; Massekurzschluss	Mehrstufenschalter Drehzahlreglerparameter; Massekurzschluss	Multiple Stage Switch engine speed control parameter; short circuit to ground	Multiple Stage Switch engine speed control parameter; short circuit to ground
843	523451	2	1-4-3	Mehrstufenschalter Drehzahlreglerparameter; Signal unplausibel	Mehrstufenschalter Drehzahlreglerparameter; Signal unplausibel	Multiple Stage Switch engine speed control parameter; plausibility error	Multiple Stage Switch engine speed control parameter; plausibility error
844	523452	3	1-4-3	Mehrstufenschalter Dachkurve; Batteriekurzschluss	Mehrstufenschalter Dachkurve; Batteriekurzschluss	Multiple Stage Switch engine torque limitation curve; short circuit to battery	Multiple Stage Switch engine torque limitation curve; short circuit to battery
845	523452	4	1-4-3	Mehrstufenschalter Dachkurve; Massekurzschluss	Mehrstufenschalter Dachkurve; Massekurzschluss	Multiple Stage Switch engine torque limitation curve; short circuit to ground	Multiple Stage Switch engine torque limitation curve; short circuit to ground
846	523452	2	1-4-3	Mehrstufenschalter Dachkurve; Signal unplausibel	Mehrstufenschalter Dachkurve; Signal unplausibel	Multiple Stage Switch engine torque limitation curve; plausibility error	Multiple Stage Switch engine torque limitation curve; plausibility error
849	1176	3	6-8-0	Sensorfehler Drucksensor vor Turbine; Signalbereich überschritten	Sensorfehler Drucksensor vor Turbine; Signalbereich überschritten	Sensor error pressure sensor upstream turbine; signal range check high	Sensor error pressure sensor upstream turbine; signal range check high
850	1176	4	6-8-0	Sensorfehler Drucksensor vor Turbine; Signalbereich unterschritten	Sensorfehler Drucksensor vor Turbine; Signalbereich unterschritten	Sensor error pressure sensor downstream turbine; signal range check high	Sensor error pressure sensor downstream turbine; signal range check high
856	523613	0	1-3-4	Raildruck Störung	Maximale positive Abweichung Raildruck überschritten (RailMeUn0)	Rail pressure disrupted	Maximum positive deviation of rail pressure exceeded (RailMeUn0)
857	523613	0	1-3-4	Raildruck Störung	Maximale positive Raildruckabweichung in Zumesseinheit überschritten (RailMeUn1)	Rail pressure disrupted	Maximum positive deviation of rail pressure in metering unit exceeded (RailMeUn1)
858	523613	0	1-3-4	Raildruck Störung	Leckage Railsystem (RailMeUn10)	Rail pressure disrupted	Railsystem leakage detected (RailMeUn10)
859	523613	0	1-3-4	Raildruck Störung	Maximale negative Raildruckabweichung in Zumesseinheit unterschritten (RailMeUn2)	Rail pressure disrupted	Maximum negative deviation of rail pressure in metering unit exceeded (RailMeUn2)
860	523613	0	1-3-4	Raildruck Störung	Negative Raildruckabweichung in Zumesseinheit Stufe 2 unterschritten (RailMeUn22)	Rail pressure disrupted	Negative deviation of rail pressure second stage (RailMeUn22)
861	523613	1	1-3-4	Minimaler Raildruck unterschritten (RailMeUn3)	Minimaler Raildruck unterschritten (RailMeUn3)	Minimum rail pressure exceeded (RailMeUn3)	Minimum rail pressure exceeded (RailMeUn3)
862	523613	0	1-3-4	Raildruck Störung	Maximaler Raildruck überschritten (RailMeUn4)	Rail pressure disrupted	Maximum rail pressure exceeded (RailMeUn4)
864	523613	2	1-3-4	Sollwert Zumesseinheit im Schubbetrieb unplausibel	Sollwert Zumesseinheit im Schubbetrieb unplausibel	Setpoint of metering unit in overrun mode not plausible	Setpoint of metering unit in overrun mode not plausible
876	523470	7	1-4-6	Maximaler Raildruck in Limp Home Modus überschritten (DBV)	Maximaler Raildruck in Limp Home Modus überschritten (DBV)	Maximum rail pressure in limp home mode exceeded (PRV)	Maximum rail pressure in limp home mode exceeded (PRV)
877	157	3	1-4-7	Sensorfehler Raildruck; Signalbereich überschritten	Sensorfehler Raildruck; Signalbereich überschritten	Sesnor error rail pressure; signal range check high	Sesnor error rail pressure; signal range check high
878	157	4	1-4-7	Sensorfehler Raildruck; Signalbereich unterschritten	Sensorfehler Raildruck; Signalbereich unterschritten	Sensor error rail pressure; signal range check low	Sensor error rail pressure; signal range check low
881	523633	11	7-0-1	Nox Konvertierungsrate ungenügend	Nox Konvertierungsrate ungenügend (SCR-Kat defekt, mangelhafte AdBlue Qualität)	Nox conversion rate insufficient	Nox conversion rate insufficient (SCR-Cat defect, bad AdBule quality)
882	523633	11	7-0-1	Nox Konvertierungsrate ungenügend	Nox Konvertierungsrate ungenügend (SCR-Kat defekt, mangelhafte AdBlue Qualität); Temperaturbereich 1	Nox conversion rate insufficient	Nox conversion rate insufficient (SCR-Cat defect, bad AdBule quality); temperature range 1
883	523633	11	7-0-1	Nox Konvertierungsrate ungenügend	Nox Konvertierungsrate ungenügend (SCR-Kat defekt, mangelhafte AdBlue Qualität); Temperaturbereich 2	Nox conversion rate insufficient	Nox conversion rate insufficient (SCR-Cat defect, bad AdBule quality); temperature range 2
887	3234	11	8-0-7	Nox-Sensor nach SCR Katalysator; Signal unplausibel "stuk in range"	Nox-Sensor nach SCR Katalysator; Signal unplausibel "stuk in range"	Nox Sensor downstream of SCR Catalysator; plausibility error "stuk in range"	Nox Sensor downstream of SCR Catalysator; plausibility error "stuk in range"
889	3224	1	8-0-8	Nox-Sensor vor SCR Katalysator; Signal unplausibel niedrig	Nox-Sensor vor SCR Katalysator; Signal unplausibel niedrig	Nox sensor upstream of SCR Catalysator; low signal not plausible	Nox sensor upstream of SCR Catalysator; low signal not plausible
892	4345	11	8-7-0	Sensor Druck Rücklaufleitung (SCR); Signal unplausibel	Sensor Druck Rücklaufleitung (SCR); Signal unplausibel	Sensor backflow line pressure (SCR); plausibility error	Sensor backflow line pressure (SCR); plausibility error
893	4343	11	8-7-1	Druckaufbau durch Förderpumpe fehlerhaft (SCR)	Druckaufbau durch Förderpumpe fehlerhaft (SCR)	General pressure check error (SCR)	General pressure check error (SCR)
894	4374	13	8-7-2	Vorhaltedruck AdBlue Dosierventil schwankt (SCR)	Vorhaltedruck AdBlue Dosierventil schwankt (SCR)	Pressure stabilisation error dosing valve (SCR)	Pressure stabilisation error dosing valve (SCR)
896	523723	11	8-7-4	Erkennung von AdBlue befülltem SCR-System im Init-State	Erkennung von AdBlue befülltem SCR-System im Init-State	Detection of AdBlue filled SCR system in Init-State	Detection of AdBlue filled SCR system in Init-State
897	523632	16	8-7-5	Pumpendruck SCR Dosiereinheit zu hoch	Pumpendruck SCR Dosiereinheit zu hoch	Pump pressure SCR metering unit too high	Pump pressure SCR metering unit too high
898	523632	18	8-7-6	Pumpendruck SCR Dosiereinheit zu niedrig	Pumpendruck SCR Dosiereinheit zu niedrig	Pump pressure SCR metering unit too low	Pump pressure SCR metering unit too low
899	523632	0	8-7-7	Druck Überlastung des SCR-System	Druck Überlastung des SCR-System	Pressure overload of SCR-System	Pressure overload of SCR-System

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
900	523632	1	8-7-8	Druckaufbau im SCR-System fehlerhaft	Druckaufbau im SCR-System fehlerhaft	Pressure build-up error SCR-System	Pressure build-up error SCR-System
903	4365	0	8-8-1	AdBlue Tank Temperatur zu hoch	AdBlue Tank Temperatur zu hoch	Urea tank temperature too high	Urea tank temperature too high
905	3241	0	8-8-3	Sensor Abgastemperatur vor SCR Katalysator; Signal unplausibel hoch	Sensor Abgastemperatur vor SCR Katalysator; Signal unplausibel hoch	Sensor SCR catalyst upstream temperature too high; plausibility error	Sensor SCR catalyst upstream temperature too high; plausibility error
906	3241	1	8-8-4	Sensor Abgastemperatur vor SCR Katalysator; Signal unplausibel niedrig	Sensor Abgastemperatur vor SCR Katalysator; Signal unplausibel niedrig	Sensor SCR catalyst upstream temperature too low; plausibility error	Sensor SCR catalyst upstream temperature too low; plausibility error
908	3361	7	8-8-6	AdBlue Dosiermodul blockiert (SCR)	AdBlue Dosiermodul blockiert (SCR)	AdBlue dosing valve blocked (SCR)	AdBlue dosing valve blocked (SCR)
914	523720	2	6-9-0	AdBlue Supplymodul Heizertemperatur; Signal unplausibel	Sensor Heizertemperatur AdBlue Supplymodul; Signal unplausibel (Normalbetrieb)	Urea supply module heater temperature; plausibility error	Sensor urea supply module heater temperature; plausibility error (normal condition)
915	523720	2	6-9-0	AdBlue Supplymodul Heizertemperatur; Signal unplausibel	Sensor Heizertemperatur AdBlue Supplymodul; Signal unplausibel (Kaltstart)	Urea supply module heater temperature; plausibility error	Sensor urea supply module heater temperature; plausibility error (cold start condition)
916	523721	2	6-8-9	Sensor AdBlue Supplymodul Temperatur; Signal unplausibel	Sensor AdBlue Supplymodul Temperatur; Signal unplausibel (Normalbetrieb)	Urea supply module heater temperature; plausibility error	Sesnor urea supply module temperature; plausibility error (normal condition)
917	523721	2	6-8-9	Sensor AdBlue Supplymodul Temperatur; Signal unplausibel	Sensor AdBlue Supplymodul Temperatur; Signal unplausibel (Kaltstart)	Urea supply module heater temperature; plausibility error	Sensor urea supply module temperature; plausibility error (cold start condition)
918	523981	11		Heizung AdBlue-Tank ohne Funktion (Aufheizphase)	Heizung AdBlue-Tank ohne Funktion (Aufheizphase)	Urea-tank without heating function (heating phase)	Urea-tank without heating function (heating phase)
919	523330	14	1-3-1	Status Wegfahrsperre; Kraftstoffzufuhr gesperrt	Status Wegfahrsperre; Kraftstoffzufuhr gesperrt	Immobilizer status; fuel blocked	Immobilizer status; fuel blocked
925	523720	8	6-9-0	AdBlue Supplymodul Heizertemperatur; Signal gestört	AdBlue Supplymodul Heizertemperatur; Duty Cycle fehlerhaft	Urea supply module heater temperature; signal disrupted	Urea supply module heater temperature; duty cycle in failure range
926	523720	8	6-9-0	AdBlue Supplymodul Heizertemperatur; Signal gestört	AdBlue Supplymodul Heizertemperatur; Duty Cycle im ungültigen Bereich	Urea supply module heater temperature; signal disrupted	Urea supply module heater temperature; duty cycle in invalid range
927	523721	11	6-8-9	AdBlue Supplymodul Temperaturmessung nicht verfügbar	AdBlue Supplymodul Temperaturmessung nicht verfügbar	Urea supply module temperature measurement not available	Urea supply module temperature measurement not available
928	523722	8	6-9-1	AdBlue Supplymodul PWM Signal; Signal gestört	AdBlue Supplymodul PWM Signal; Signal disrupted	Urea supply module PWM signal; signal disrupted	Urea supply module PWM signal; period outside valid range
929	523722	8	6-9-1	AdBlue Supplymodul PWM Signal; Signal gestört	Kein gültiges PWM Signal vom AdBlue Supplymodul empfangen	Urea supply module PWM signal; signal disrupted	Detect faulty PWM signal from Supply Modul
930	523721	8	6-8-9	AdBlue Supplymodul Temperatur; Signal gestört	AdBlue Supplymodul Temperatur; Duty Cycle fehlerhaft	Urea supply module temperature; signal disrupted	Urea supply module temperature; duty cycle in failure range
931	523721	8	6-8-9	AdBlue Supplymodul Temperatur; Signal gestört	AdBlue Supplymodul Temperatur; Duty Cycle im ungültigen Bereich	Urea supply module temperature; signal disrupted	Urea supply module temperature; duty cycle in invalid range
932	29	3	1-2-6	Handgas; Signalbereich überschritten, Batteriekurzschluss	Leergasschalter Handgas; Batteriekurzschluss	Handthrottle; signal out of range, short circuit to battery	Handthrottle idle validation switch; short circuit to battery
935	91	3	2-2-6	Sensorfehler Fahrpedal; Signalbereich überschritten	Sensorfehler Fahrpedal; Signalbereich überschritten	Sensor error accelerator pedal; signal range check high	Sensor error accelerator pedal; signal range check high
936	29	3	2-2-6	Handgas; Signalbereich überschritten, Batteriekurzschluss	Sensorfehler Handgas; Signalbereich überschritten	Handthrottle; signal out of range, short circuit to battery	Sesnor error handthrottle; signal range check high
937	29	4	1-2-6	Handgas; Signalbereich unterschritten, Massekurzschluss	Leergasschalter Handgas; Massekurzschluss	Handthrottle; signal out of range, short circuit to ground	Handthrottle idle validation switch; short circuit to ground
940	91	4	2-2-6	Sensorfehler Fahrpedal; Signalbereich unterschritten	Sensorfehler Fahrpedal; Signalbereich unterschritten	Sensor error accelerator pedal; signal range check low	Sensor error accelerator pedal; signal range check low
941	29	4	2-2-6	Handgas; Signalbereich unterschritten, Massekurzschluss	Sensorfehler Handgas; Signalbereich unterschritten	Handthrottle; signal out of range, short circuit to ground	Sensor error handthrottle sensor; signal range check low
942	523921	3	7-1-4	Sensorfehler Brennertemperatur; Signalbereich überschritten	Sensorfehler Brennertemperatur; Signalbereich überschritten	Sensor error burner temperature; signal range check high	Sensor error burner temperature; signal range check high
943	3532	3	6-7-0	Sensorfehler AdBlue Tanklevel; Signalbereich überschritten	Sensorfehler AdBlue Tanklevel; Signalbereich überschritten	Sensor error urea tank level; signal range check high	Sensor error urea tank level; signal range check high
944	523921	4	7-1-4	Sensorfehler Brennkammertemperatur; Signalbereich unterschritten	Sensorfehler Brennkammertemperatur; Signalbereich unterschritten	Sensor error burner temperature; signal range check low	Sensor error burner temperature; signal range check low
945	3532	4	6-7-0	Sensorfehler AdBlue Tanklevel; Signalbereich unterschritten	Sensorfehler AdBlue Tanklevel; Signalbereich unterschritten	Sensor error urea tank level; signal range check low	Sensor error urea tank level; signal range check low
946	1079	13	2-8-2	Sensorversorgungsspannungsfehler Kreis 1 (EMR)	Sensorversorgungsspannungsfehler Kreis 1 (EMR)	Sensor supply voltage monitor 1 error (ECU)	Sensor supply voltage monitor 1 error (ECU)
947	1080	13	2-8-2	Sensorversorgungsspannungsfehler Kreis 2 (EMR)	Sensorversorgungsspannungsfehler Kreis 2 (EMR)	Sensor supply voltage monitor 2 error (ECU)	Sensor supply voltage monitor 2 error (ECU)
948	523601	13	2-8-2	Sensorversorgungsspannungsfehler Kreis 3 (EMR)	Sensorversorgungsspannungsfehler Kreis 3 (EMR)	Sensor supply voltage monitor 3 error (ECU)	Sensor supply voltage monitor 3 error (ECU)
956	677	3	5-1-2	Starterrelais; Kurzschluss	Starterrelais plusseitig; Batteriekurzschluss	Starter relay; short circuit	Starter relay high side; short circuit to battery
957	677	4	5-1-2	Starterrelais; Kurzschluss	Starterrelais plusseitig; Massekurzschluss	Starter relay; short circuit	Starter relay high side; short circuit to ground
958	677	5	5-1-2	Starterrelais; Kabelbruch	Starterrelais; Kabelbruch	Starter relay; no load error	Starter relay; no load error
959	677	12	5-1-2	Starter Relais; Leistungsstufe Übertemperatur	Starter Relais; Leistungsstufe Übertemperatur	Starter relay; powerstage over temperature	Starter relay; powerstage over temperature
960	677	3	5-1-2	Starterrelais; Kurzschluss	Starterrelais minusseitig; Batteriekurzschluss	Starter relay; short circuit	Starter relay low side; short circuit to battery
961	677	4	5-1-2	Starterrelais; Kurzschluss	Starterrelais minusseitig; Massekurzschluss	Starter relay; short circuit	Starter relay low side; short circuit to ground
963	523922	5	7-1-5	Brenner Shut Off Valve; Kabelbruch	Brenner Shut Off Valve; Kabelbruch	Burner shut off valve; open load	Burner shut off valve; open load
965	523922	3	7-1-5	Brenner Shut Off Valve; Batteriekurzschluß	Brenner Shut Off Valve; Batteriekurzschluß	Burner shut of valve; short circuit to battery	Burner shut of valve; short circuit to battery
967	523922	4	7-1-5	Brenner Shut Off Valve; Massekurzschluss	Brenner Shut Off Valve; Massekurzschluss	Burner shut of valve; short circuit to ground	Burner shut of valve; short circuit to ground
969	624	5	5-1-3	Diagnoselampe; Kabelbruch	Diagnoselampe; Kabelbruch	SVS lamp; open load	SVS lamp; open load
970	624	12	5-1-3	Diagnoselampe; Leistungsstufe Übertemperatur	Diagnoselampe; Leistungsstufe Übertemperatur	SVS lamp; powerstage over temperature	SVS lamp; powerstage over temperature
971	624	3	5-1-3	Diagnoselampe; Batteriekurzschluß	Diagnoselampe; Batteriekurzschluß	SVS lamp; short circuit to battery	SVS lamp; short circuit to battery
972	624	4	5-1-3	Diagnoselampe; Massekurzschluss	Diagnoselampe; Massekurzschluss	SVS lamp; short circuit to ground	SVS lamp; short circuit to ground
973	523612	14	5-5-5	Softwarereset CPU	Softwarereset CPU SWReset_0	Softwarereset CPU	Softwarereset CPU SWReset_0
974	523612	14	5-5-5	Softwarereset CPU	Softwarereset CPU SWReset_1	Softwarereset CPU	Softwarereset CPU SWReset_1
975	523612	14	5-5-5	Softwarereset CPU	Softwarereset CPU SWReset_2	Softwarereset CPU	Softwarereset CPU SWReset_2
976	91	11	2-2-6	Plausibilitätfehler zwischen APP1 und APP2 oder APP1 und Leergasschalter	Plausibilitätfehler zwischen APP1 und APP2 oder APP1 und Leergasschalter	Plausibility error between APP1 and APP2 or APP1 and idle switch	Plausibility error between APP1 and APP2 or APP1 and idle switch
980	523550	12	5-1-5	T50 Starterschalter zu lange aktiv	T50 Starterschalter zu lange aktiv	T50 start switch active for too long	T50 start switch active for too long
981	172	3	2-2-6	Sensorfehler Ansaugluftemperatur; Signalbereich überschritten	Sensorfehler Ansaugluftemperatur; Signalbereich überschritten	Sensor error intake air; signal range check high	Sensor error intake air; signal range check high
982	172	4	2-2-6	Sensorfehler Ansaugluftemperatur; Signalbereich unterschritten	Sensorfehler Ansaugluftemperatur; Signalbereich unterschritten	Sensor error intake air sensor; signal range check low	Sensor error intake air sensor; signal range check low
983	172	2	2-2-6	Ansaugluftemperatur Sensor; Signal unplausibel	Ansaugluftemperatur Sensor; Signal unplausibel	Intake air sensor; plausibility error	Intake air sensor; plausibility error
984	523921	11	7-1-4	Sensor Brennertemperatur; Signal unplausibel	Sensor Brennertemperatur; Signal unplausibel	Sensor burner temperature; plausibility error	Sensor burner temperature; plausibility error
986	523921	0	7-1-4	Brennertemperatur; Maximalwert überschritten	Brennertemperatur; Maximalwert überschritten	Physical range check high for burner temperature	Physical range check high for burner temperature
989	523921	1	7-1-4	Brennertemperatur; Minimalwert unterschritten	Brennertemperatur; Minimalwert unterschritten	Physical range check low for burner temperature	Physical range check low for burner temperature
994	105	3	1-2-8	Sensorfehler Ladeluftemperatur; Signalbereich überschritten	Sensorfehler Ladeluftemperatur; Signalbereich überschritten	Sensor error charged air temperature; signal range check high	Sensor error charged air temperature; signal range check high
995	105	4	1-2-8	Sensorfehler Ladeluftemperatur; Signalbereich unterschritten	Sensorfehler Ladeluftemperatur; Signalbereich unterschritten	Sensor error charged air temperature; signal range check low	Sensor error charged air temperature; signal range check low
996	105	0	2-3-3	Ladeluftemperatur; Systemreaktion ausgelöst	Ladeluftemperatur zu hoch; Warnschwelle erreicht	Charged air cooler temperature; system reaction initiated	High charged air cooler temperature; warning threshold exceeded
997	105	0	2-3-3	Ladeluftemperatur; Systemreaktion ausgelöst	Ladeluftemperatur zu hoch; Abschaltschwelle erreicht	Charged air cooler temperature; system reaction initiated	High charged air cooler temperature; shut off threshold exceeded
1007	412	3	6-8-2	Sensorfehler Temperatur nach AGR Kühler; Signalbereich überschritten	Sensorfehler Temperatur nach AGR Kühler; Signalbereich überschritten	Sensor error EGR cooler downstream temperature; signal range check high	Sensor error EGR cooler downstream temperature; signal range check high
1008	412	4	6-8-2	Sensorfehler Temperatur nach AGR Kühler; Signalbereich unterschritten	Sensorfehler Temperatur nach AGR Kühler; Signalbereich unterschritten	Sensor error EGR cooler downstream temperature; signal range check low	Sensor error EGR cooler downstream temperature; signal range check low
1011	523960	0	7-7-1	Abgastemperatur nach AGR Kühler; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach AGR Kühler; Maximalwert überschritten	EGR cooler downstream temperature; out of range, system reaction initiated	Physical range check high for EGR cooler downstream temperature
1012	523960	1	7-7-1	Abgastemperatur nach AGR Kühler; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach AGR Kühler; Minimalwert unterschritten	EGR cooler downstream temperature; out of range, system reaction initiated	Physical range check low for EGR cooler downstream temperature
1014	51	6	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuatorfehler AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Signalbereich überschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check high
1015	51	5	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuatorfehler AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Signalbereich unterschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check low
1016	51	7	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Position AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8) unplausibel	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator position for EGR-Valve (2.9,3.6) or Throttle-Valve (6.1,7.8) not plausible
1017	51	5	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Kabelbruch	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); open load
1018	51	12	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Leistungsstufe Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Übertemperatur	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); powerstage over temperature
1019	51	3	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Batteriekurzschluss	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to battery

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1020	51	4	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Massekurzschluss	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to ground
1021	51	12	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Mechanischer Defekt AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8)	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Mechanical actuator defect EGR-Valve (2.9,3.6) or Throttle-Valve (6.1,7.8)
1022	51	6	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuatorfehler AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8), Signalbereich überschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check high
1023	51	5	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuatorfehler AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Signalbereich unterschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check low
1024	51	3	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Lagesensorfehler Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8), Signalbereich überschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Position sensor error of actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check high
1025	51	4	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Lagesensorfehler Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8), Signalbereich unterschritten	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Position sensor error actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); signal range check low
1026	4769	2	6-8-4	Sensor Abgastemperatur nach (DOC); Signal unplausibel	Sensor Abgastemperatur nach (DOC); Signal unplausibel	Sensor exhaust gas temperature downstream (DOC); plausibility error	Sensor exhaust gas temperature downstream (DOC); plausibility error
1029	4766	0	6-8-4	Abgastemperatur nach (DOC); Maximalwert überschritten	Abgastemperatur nach (DOC); Maximalwert überschritten	Physical range check high for exhaust gas temperature downstream (DOC)	Physical range check high for exhaust gas temperature downstream (DOC)
1032	4766	1	6-8-4	Abgastemperatur nach (DOC); Minimalwert unterschritten	Abgastemperatur nach (DOC); Minimalwert unterschritten	Physical range check low for exhaust gas temperature downstream (DOC)	Physical range check low for exhaust gas temperature downstream (DOC)
1034	4769	3	6-8-4	Sensorfehler Abgastemperatur nach (DOC); Signalbereich überschritten	Sensorfehler Abgastemperatur nach (DOC); Signalbereich überschritten	Sensor error exhaust gas temperature downstream (DOC); signal range check high	Sensor error exhaust gas temperature downstream (DOC); signal range check high
1035	4769	4	6-8-4	Sensorfehler Abgastemperatur nach (DOC); Signalbereich unterschritten	Sensorfehler Abgastemperatur nach (DOC); Signalbereich unterschritten	Sensor error exhaust gas temperature downstream (DOC); signal range check low	Sensor error exhaust gas temperature downstream (DOC); signal range check low
1036	4768	2	6-8-3	Sensor Abgastemperatur vor (DOC); Signal unplausibel	Sensor Abgastemperatur vor (DOC); Signal unplausibel	Sensor exhaust gas temperature upstream (DOC); plausibility error	Sensor exhaust gas temperature upstream (DOC); plausibility error
1039	4765	0	6-8-3	Abgastemperatur vor (DOC); Maximalwert überschritten	Abgastemperatur vor (DOC); Maximalwert überschritten	Physical range check high for exhaust gas temperature upstream (DOC)	Physical range check high for exhaust gas temperature upstream (DOC)
1042	4765	1	6-8-3	Abgastemperatur vor (DOC); Minmalwert unterschritten	Abgastemperatur vor (DOC); Minmalwert unterschritten	Physical range check low for exhaust gas temperature upstream (DOC)	Physical range check low for exhaust gas temperature upstream (DOC)
1044	4768	3	6-8-3	Sensorfehler Abgastemperatur vor (DOC); Signalbereich überschritten	Sensorfehler Abgastemperatur vor (DOC); Signalbereich überschritten	Sensor error exhaust gas temperature upstream (DOC); signal range check high	Sensor error exhaust gas temperature upstream (DOC); signal range check high
1045	4768	4	6-8-3	Sensorfehler Abgastemperatur vor (DOC); Signalbereich unterschritten	Sensorfehler Abgastemperatur vor (DOC); Signalbereich unterschritten	Sensor error exhaust gas temperature upstream (DOC); signal range check low	Sensor error exhaust gas temperature upstream (DOC); signal range check low
1047	3248	4	6-8-5	Sensorfehler Abgastemperatur nach Partikel Filter; Signalbereich unterschritten	Sensorfehler Abgastemperatur nach Partikel Filter; Signalbereich unterschritten	Sensor error particle filter downstream temperature; signal range check low	Sensor error particle filter downstream temperature; signal range check low
1066	1180	11	5-5-6	Sensor Abgastemperatur vor Turbine; Signal unplausibel	Sensor Abgastemperatur vor Turbine; Signal unplausibel	Sensor exhaust gas temperature upstream turbine; plausibility error	Sensor exhaust gas temperature upstream turbine; plausibility error
1067	1180	3	5-5-6	Sensorfehler Abgastemperatur vor Turbine; Signalbereich überschritten	Sensorfehler Abgastemperatur vor Turbine; Signalbereich überschritten	Sensor error exhaust gas temperature upstream turbine; signal range check high	Sensor error exhaust gas temperature upstream turbine; signal range check high
1068	1180	4	5-5-6	Sensorfehler Abgastemperatur vor Turbine; Signalbereich unterschritten	Sensorfehler Abgastemperatur vor Turbine; Signalbereich unterschritten	Sensor error exhaust gas temperature upstream turbine; signal range check low	Sensor error exhaust gas temperature upstream turbine; signal range check low
1069	4360	0	6-6-8	Abgastemperatur vor SCR Katalysator; Maximalwert überschritten	Abgastemperatur vor SCR Katalysator; Maximalwert überschritten	Physical range check high for urea catalyst upstream temperature	Physical range check high for urea catalyst upstream temperature
1070	4360	1	6-6-8	Abgastemperatur vor SCR Katalysator; Minimalwert unterschritten	Abgastemperatur vor SCR Katalysator; Minimalwert unterschritten	Physical range low for urea catalyst upstream temperature	Physical range low for urea catalyst upstream temperature
1072	4360	3	6-6-8	Sensorfehler Abgastemperatur vor SCR Katalysator; Signalbereich überschritten	Sensorfehler Abgastemperatur vor SCR Katalysator; Signalbereich überschritten	Sensor error urea catalyst exhaust gas temperature upstream; signal range check high	Sensor error urea catalyst exhaust gas temperature upstream; signal range check high
1073	4360	4	6-6-8	Sensorfehler Abgastemperatur vor SCR Katalysator; Signalbereich unterschritten	Sensorfehler Abgastemperatur vor SCR Katalysator; Signalbereich unterschritten	Sensor error urea catalyst exhaust gas temperature upstream; signal range check low	Sensor error urea catalyst exhaust gas temperature upstream; signal range check low
1074	1761	14	6-7-0	AdBlue Tanklevel; Warnschwelle erreicht	AdBlue Tanklevel; Warnschwelle erreicht	Urea tank level; warning threshold exceeded	Urea tank level; warning threshold exceeded
1077	3361	3	6-7-7	AdBlue Dosierventil; Batteriekurzschluss	AdBlue Dosieventil; Batteriekurzschluss plusseitig	Urea dosing valve; short circuit to battery	Urea dosing valve; short circuit to battery on high side
1078	3361	3	6-7-7	AdBlue Dosierventil; Batteriekurzschluss	AdBlue Dosierventil; Batteriekurzschluss oder Kabelbruch plusseitig	Urea dosing valve; short circuit to battery	Urea dosing valve; short circuit to battery or open load on high side
1079	3361	4	6-7-7	AdBlue Dosierventil; Massekurzschluss	AdBlue Dosierventil; Massekurzschluss oder Kabelbruch minusseitig	Urea dosing valve; short circuit to ground	Urea dosing valve; short circuit to ground or open load on low side
1080	3361	4	6-7-7	AdBlue Dosierventil; Massekurzschluss	AdBlue Dosierventil; Kurzschluss plusseitig	Urea dosing valve; short circuit to ground	Urea dosing valve; short circuit on high side
1081	4345	5	6-7-4	SCR Heizer Relais AdBlue Rücklaufleitung; Kabelbruch	SCR Heizer Relais AdBlue Rücklaufleitung sekundär Seite; Kabelbruch	SCR heater relay urea returnline; open load	SCR heater relay urea returnline sekondary side; open load
1082	4366	5	7-6-2	SCR Hauptrelais (Sekundärseite); Kabelbruch	SCR Hauptrelais (Sekundärseite); Kabelbruch	SCR main relay (secondary side); open load	SCR main relay (secondary side); open load
1083	4343	5	6-7-3	SCR Heizer Relais AdBlue Druckleitung; Kabelbruch	SCR Heizer Relais AdBlue Druckleitung sekundär Seite; Kabelbruch	SCR heater relay urea pressureline; open load	SCR heater relay urea pressureline secondary side; open load
1084	4366	5	7-6-2	SCR Hauptrelais; Kurzschluss	SCR Hauptrelais (Sekundärseite); Batteriekurzschluss	SCR main relay; short circuit	SCR main relay (secondary side); Shortcut to battery
1085	4366	5	7-6-2	SCR Hauptrelais; Kurzschluss	SCR Hauptrelais (Sekundärseite); Massekurzschluss	SCR main relay; short circuit	SCR main relay (secondary side); shortcut to ground
1086	4341	5	6-7-5	SCR Heizer Relais AdBlue Versorgungsleitung; Kabelbruch	SCR Heizer Relais AdBlue Versorgungsleitung sekundär Seite; Kabelbruch	SCR heater relay urea supplyline; open load	SCR heater relay urea supplyline secondary side; open load
1087	523719	5	6-7-2	SCR Heizer Relais AdBlue Supply Modul; Kabelbruch	SCR Heizer Relais AdBlue Supply Modul sekundär Seite; Kabelbruch	SCR heater relay urea supply module; open load	SCR heater relay urea supply modul secondary side; open load
1088	4366	5	6-7-1	SCR Tankheizventil; Kabelbruch	SCR Tankheizventil sekundär Seite; Kabelbruch	SCR Tank heating valve; open load	SCR Tank heating valve secundary side: open load
1089	4243	11	7-8-3	SCR System Heizerdiagnose meldet Fehler; Abschaltung SCR-System	SCR System Heizerdiagnose meldet Fehler; Abschaltung SCR-System	SCR system heater diagnostic reports error; shut off SCR-system	SCR system heater diagnostic reports error; shut off SCR-system
1090	4345	5	6-7-4	SCR Heizer Relais AdBlue Rücklaufleitung; Kabelbruch	SCR Heizer Relais AdBlue Rücklaufleitung primär Seite; Kabelbruch	SCR heater relay urea returnline; open load	SCR heater relay urea returnline primary side; open load
1092	4345	3	6-7-4	SCR Heizer AdBlue Rücklaufleitung; Batteriekurzschluss	SCR Heizer AdBlue Rücklaufleitung; Batteriekurzschluss	SCR heater urea returnline; short circuit to battery	SCR heater urea returnline; short circuit to battery
1093	4345	4	6-7-4	SCR Heizer AdBlue Rücklaufleitung; Massekurzschluß	SCR Heizer AdBlue Rücklaufleitung; Massekurzschluß	SCR heater urea returnline; short circuit to ground	SCR heater urea returnline; short circuit to ground
1094	4343	5	6-7-3	SCR Heizer Relais AdBlue Druckleitung; Kabelbruch	SCR Heizer Relais AdBlue Druckleitung primär Seite; Kabelbruch	SCR heater relay urea pressureline; open load	SCR heater relay urea pressureline primary side; open load
1096	4343	3	6-7-3	SCR Heizer AdBlue Druckleitung; Batteriekurzschluss	SCR Heizer AdBlue Druckleitung; Batteriekurzschluss	SCR heater urea pressureline; short circuit to battery	SCR heater urea pressureline; short circuit to battery
1097	4343	4	6-7-3	SCR Heizer AdBlue Druckleitung; Massekurzschluss	SCR Heizer AdBlue Druckleitung; Massekurzschluss	SCR heater urea pressureline; short circuit to ground	SCR heater urea pressureline; short circuit to ground
1098	523718	5	6-7-6	SCR Hauptrelais (Primärseite); Kabelbruch	SCR Hauptrelais (Primärseite); Kabelbruch	SCR main relay (primary side); open load	SCR main relay (primary side); open load
1100	523718	3	6-7-6	SCR Hauptrelais (Primärseite); Batteriekurzschluss	SCR Hauptrelais (Primärseite); Batteriekurzschluss	SCR main relay (primary side); short circuit to battery	SCR main relay (primary side); short circuit to battery
1101	523718	4	6-7-6	SCR Hauptrelais (Primärseite); Massekurzschluß	SCR Hauptrelais (Primärseite); Massekurzschluß	SCR main relay (primary side); short circuit to ground	SCR main relay (primary side); short circuit to ground
1102	4341	5	6-7-5	SCR Heizer Relais AdBlue Versorgungsleitung; Kabelbruch	SCR Heizer Relais AdBlue Versorgungsleitung primär Seite; Kabelbruch	SCR heater relay urea supplyline; open load	SCR heater relay urea supplyline primary side; open load
1104	4341	3	6-7-5	SCR-Heizer AdBlue Versorgungsleitung; Batteriekurzschluss	SCR-Heizer AdBlue Versorgungsleitung; Batteriekurzschluss	SCR-heater urea supplyline; short circuit to battery	SCR-heater urea supplyline; short circuit to battery
1105	4341	4	6-7-5	SCR-Heizer AdBlue Versorgungsleitung; Massekurzschluss	SCR-Heizer AdBlue Versorgungsleitung; Massekurzschluss	SCR-heater urea supplyline; short circuit to ground	SCR-heater urea supplyline; short circuit to ground
1106	523719	5	6-7-2	SCR Heizer Relais AdBlue Supply Modul; Kabelbruch	SCR Heizer Relais AdBlue Supply Modul primär Seite; Kabelbruch	SCR heater relay urea supply module; open load	SCR heater relay urea supplymodule primary side; open load
1108	523719	3	6-7-2	SCR Heizer AdBlue Supply Modul; Batteriekurzschluss	SCR Heizer AdBlue Supply Modul; Batteriekurzschluss	SCR heater urea supplymodule; short circuit to battery	SCR heater urea supplymodule; short circuit to battery
1109	523719	4	6-7-2	SCR Heizer AdBlue Supply Modul; Massekurzschluss	SCR Heizer AdBlue Supply Modul; Massekurzschluss	SCR heater urea supplymodule; short circuit to ground	SCR heater urea supplymodule; short circuit to ground
1110	4366	5	6-7-1	SCR Tankheizventil; Kabelbruch	SCR Tankheizventil primär Seite; Kabelbruch	SCR Tank heating valve; open load	SCR tank heating valve primary side; open load
1111	4366	12	6-7-1	Ausgang Leistungsstufe SCR Heizer Relais AdBlue Tank; Übertemperatur	Ausgang Leistungsstufe SCR Heizer Relais AdBlue Tank; Übertemperatur	SCR-heater relay urea tank powerstage output; over temperature	SCR-heater relay urea tank powerstage output; over temperature
1112	4366	3	6-7-1	SCR Tankheizventil; Batteriekurzschluss	SCR Tankheizventil; Batteriekurzschluss	SCR Tank heating valve; short circuit to battery	SCR Tank heating valve; short circuit to battery
1113	4366	4	6-7-1	SCR Tankheizventil; Massekurzschluss	SCR Tankheizventil; Massekurzschluss	SCR Tank heating valve; short circuit to ground	SCR Tank heating valve; short circuit to ground
1118	4375	5	6-6-6	AdBlue Pumpenmotor; Kabelbruch	AdBlue Pumpenmotor; Kabelbruch	Urea pump motor; open load	Urea pump motor; open load
1120	4375	3	6-6-6	AdBlue Pumpenmotor; Batteriekurzschluss	AdBlue Pumpenmotor; Batteriekurzschluss	Urea pump motor; short circuit to battery	Urea pump motor; short circuit to battery
1121	4375	4	6-6-6	AdBlue Pumpenmotor; Massekurzschluss	AdBlue Pumpenmotor; Massekurzschluss	Urea pump motor; short circuit to ground	Urea pump motor; short circuit to ground
1122	4334	0	6-6-5	AdBlue Pumpendruck; Außerhalb des zulässigen Bereichs	AdBlue Pumpendruck; Maximalwert überschritten	Urea pump pressure; out of range	Physical range check high for Urea Pump Pressure
1123	4334	1	6-6-5	AdBlue Pumpendruck; Außerhalb des zulässigen Bereichs	AdBlue Pumpendruck; Minimalwert unterschritten	Urea pump pressure; out of range	Physical range check low for Urea Pump Pressure
1124	4334	0	6-6-5	AdBlue Pumpendruck; Außerhalb des zulässigen Bereichs	Sensor AdBlue Pumpendruck; Signal unplausibel hoch	Urea pump pressure; out of range	Urea pump pressure sensor; high signal not plausible
1125	4334	1	6-6-5	AdBlue Pumpendruck; Außerhalb des zulässigen Bereichs	Sensor AdBlue Pumpendruck; Signal unplausibel niedrig	Urea pump pressure; out of range	Urea pump pressure sensor; low signal not plausible
1127	4334	3	6-6-5	Sensorfehler AdBlue Pumpendruck; Signalbereich überschritten	Sensorfehler AdBlue Pumpendruck; Signalbereich überschritten	Sensor error urea pump pressure; signal range check high	Sensor error urea pump pressure; signal range check high

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1128	4334	4	6-6-5	Sensorfehler AdBlue Pumpendruck; Signalbereich unterschritten	Sensorfehler AdBlue Pumpendruck; Signalbereich unterschritten	Sensor error urea pump pressure; signal range check low	Sensor error urea pump pressure; signal range check low
1129	4376	5	6-6-7	SCR Umkehrventil; Kabelbruch	SCR Umkehrventil; Kabelbruch	SCR reversing valve; open load	SCR reversing valve; open load
1130	4376	12	6-6-7	SCR Umkehrventil; Übertemperatur	SCR Umkehrventil; Übertemperatur	SCR reversing valve; over temperature	SCR reversing valve; over temperature
1131	4376	3	6-6-7	SCR Umkehrventil; Batteriekurzschluss	SCR Umkehrventil; Batteriekurzschluss	SCR reversing valve; short circuit to battery	SCR reversing valve; short circuit to battery
1132	4376	4	6-6-7	SCR Umkehrventil; Massekurzschluss	SCR Umkehrventil; Massekurzschluss	SCR reversing valve; short circuit to ground	SCR reversing valve; short circuit to ground
1135	3031	0	6-6-9	AdBlue-Tank Temperatur; Maximalwert überschritten	AdBlue-Tank Temperatur; Maximalwert überschritten	AdBlue-Tank temperature: maximum exceeded	AdBlue-Tank temperature: maximum exceeded
1136	3031	1	6-6-9	AdBlue-Tank Temperatur; Minimalwert unterschritten	AdBlue-Tank Temperatur; Minimalwert unterschritten	DEF-Tank temperature: below minimum	DEF-Tank temperature: below minimum
1138	3031	3	6-6-9	Sensorfehler AdBlue-Tank Temperatur; Batteriekurzschluss	Sensorfehler AdBlue-Tank Temperatur; Batteriekurzschluss	Sensor error urea tank temperature; short circuit to battery	Sensor error urea tank temperature; short circuit to battery
1139	3031	4	6-6-9	Sensorfehler AdBlue-Tank Temperatur; Massekurzschluss	Sensorfehler AdBlue-Tank Temperatur; Massekurzschluss	Sensor error urea tank temperature; short circuit to ground	Sensor error urea tank temperature; short circuit to ground
1157	97	12	2-2-8	Wasserabscheider Kraftstoffvorfilter; Maximalwert überschritten	Wasserabscheider Kraftstoffvorfilter; Maximalwert überschritten	Water in fuel level prefilter; maximum value exceeded	Water in fuel level prefilter; maximum value exceeded
1158	523946	0	7-7-2	Nullmengenkalibrierung Injektor 1 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 1 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 1 (in firing order); maximum value exceeded	Zerofuel calibration injector 1 (in firing order); maximum value exceeded
1159	523947	0	7-7-2	Nullmengenkalibrierung Injektor 2 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 2 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 2 (in firing order); maximum value exceeded	Zerofuel calibration injector 2 (in firing order); maximum value exceeded
1160	523948	0	7-7-2	Nullmengenkalibrierung Injektor 3 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 3 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 3 (in firing order); maximum value exceeded	Zerofuel calibration injector 3 (in firing order); maximum value exceeded
1161	523949	0	7-7-2	Nullmengenkalibrierung Injektor 4 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 4 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 4 (in firing order); maximum value exceeded	Zerofuel calibration injector 4 (in firing order); maximum value exceeded
1162	523950	0	7-7-2	Nullmengenkalibrierung Injektor 5 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 5 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 5 (in firing order); maximum value exceeded	Zerofuel calibration injector 5 (in firing order); maximum value exceeded
1163	523951	0	7-7-2	Nullmengenkalibrierung Injektor 6 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 6 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 6 (in firing order); maximum value exceeded	Zerofuel calibration injector 6 (in firing order); maximum value exceeded
1164	523946	1	7-7-2	Nullmengenkalibrierung Injektor 1 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 1 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 1 (in firing order); minimum value exceeded	Zerofuel calibration injector 1 (in firing order); minimum value exceeded
1165	523947	1	7-7-2	Nullmengenkalibrierung Injektor 2 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 2 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 2 (in firing order); minimum value exceeded	Zerofuel calibration injector 2 (in firing order); minimum value exceeded
1166	523948	1	7-7-2	Nullmengenkalibrierung Injektor 3 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 3 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 3 (in firing order); minimum value exceeded	Zerofuel calibration injector 3 (in firing order); minimum value exceeded
1167	523949	1	7-7-2	Nullmengenkalibrierung Injektor 4 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 4 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 4 (in firing order); minimum value exceeded	Zerofuel calibration injector 4 (in firing order); minimum value exceeded
1168	523950	1	7-7-2	Nullmengenkalibrierung Injektor 5 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 5 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 5 (in firing order); minimum value exceeded	Zerofuel calibration injector 5 (in firing order); minimum value exceeded
1169	523951	1	7-7-2	Nullmengenkalibrierung Injektor 6 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 6 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 6 (in firing order); minimum value exceeded	Zerofuel calibration injector 6 (in firing order); minimum value exceeded
1170	523612	12	5-5-5	Steuergerät; Interner Software Fehler	Interner Softwarefehler EMR	ECU reported internal software error	Internal software error ECU
1171	175	2	1-4-4	Motoröltemperatur; Signal unplausibel	Öltemperatur kundenseitig; Signal unplausibel	Oil temperature; plausibility error	Customer oiltemperature: signal unplausible
1173	523973	14	7-7-9	SCR Manipulationserkennung; Leistungsreduktions-Timer Grenzwert 1 unterschritten	SCR Manipulationserkennung; Leistungsreduktions-Timer Grenzwert 1 unterschritten	SCR Tamper detection; derating timer below limit 1	SCR Tamper detection; derating timer below limit 1
1174	523974	14	7-7-9	SCR Manipulationserkennung; Leistungsreduktions-Timer Grenzwert 2 unterschritten	SCR Manipulationserkennung; Leistungsreduktions-Timer Grenzwert 2 unterschritten	SCR Tamper detection; derating timer below limit 2	SCR Tamper detection; derating timer below limit 2
1175	523975	14	7-8-0	Unzureichende AdBlue Qualität; Leistungsreduktions-Timer Grenzwert 1 unterschritten	Unzureichende AdBlue Qualität; Leistungsreduktions-Timer Grenzwert 1 unterschritten	Urea quality; derating timer below limit 1	Urea quality; derating timer below limit 1
1176	523976	14	7-8-0	Unzureichende AdBlue Qualität; Leistungsreduktions-Timer Grenzwert 2 unterschritten	Unzureichende AdBlue Qualität; Leistungsreduktions-Timer Grenzwert 2 unterschritten	Urea qulaity; derating timer below limit 2	Urea qulaity; derating timer below limit 2
1177	523977	14	7-8-1	AdBlue Tanklevel; Leistungreduktions-Timer Grenzwert 1 unterschritten	AdBlue Tanklevel; Leistungreduktions-Timer Grenzwert 1 unterschritten	Urea tank level; derating timer below limit 1	Urea tank level; derating timer below limit 1
1178	523978	14	7-8-1	AdBlue Tanklevel; Leistungreduktions-Timer Grenzwert 2 unterschritten	AdBlue Tanklevel; Leistungreduktions-Timer Grenzwert 2 unterschritten	Urea tank level; derating timer below limit 2	Urea tank level; derating timer below limit 2
1180	168	0	3-1-8	Batteriespannung; Maximalwert überschritten	Batteriespannung; Maximalwert überschritten	Physikal range check high for battery voltage	Physikal range check high for battery voltage
1181	168	1	3-1-8	Batteriespannung; Minimalwert unterschritten	Batteriespannung; Minimalwert unterschritten	Physikal range check low for battery voltage	Physikal range check low for battery voltage
1182	172	0	2-2-6	Ansaugluftemperatur; Maximalwert überschritten	Ansaugluftemperatur; Maximalwert überschritten	Physical range check high for intake air temperature	Physical range check high for intake air temperature
1183	172	1	2-2-6	Ansaugluftemperatur; Minimalwert unterschritten	Ansaugluftemperatur; Minimalwert unterschritten	Physical range check low for intake air temperature	Physical range check low for intake air temperature
1187	523980	14	7-8-4	Mangelhafte AdBlue Qualität erkannt	Mangelhafte AdBlue Qualität erkannt	Bad quality of reduction agent detected	Bad quality of reduction agent detected
1192	523922	12		Brenner Shut Off Valve; Übertemperatur	Brenner Shut Off Valve; Übertemperatur	Over temperature error on burner shut of valve	Over temperature error on burner shut of valve
1193	1180	0		Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur vor Turbine; Maximalwert überschritten	Exhaust gas temperature upstream turbine; out of range, system reaction initiated	Physical range check high for exhaust gas temperature upstream turbine
1194	1180	1		Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur vor Turbine; Minimalwert unterschritten	Exhaust gas temperature upstream turbine; out of range, system reaction initiated	Physical range check low for exhaust gas temperature upstream turbine
1216	523914	5	8-5-1	Glühkerzenkontrolle; Kabelbruch	Freigabeleitung Glühkerzenkontrolle; Kurzschluss	Glow plug control; open load	Glow plug control release line; short circuit error
1217	523914	11	8-5-1	Glühkerzenkontrolle; Interner Fehler	Glühkerzenkontrolle; Interner Fehler	Glow plug control; internal error	Glow plug control; internal error
1219	524018	14	7-8-6	DPF wurde nicht regeneriert, Leistungsreduktion Phase 1 (Manuelle Regenerationsanforderung)	DPF wurde nicht regeneriert, Leistungsreduktion Phase 1 (Manuelle Regenerationsanforderung)	DPF wasn´t regenerated, power reduction phase 1 (manuell regeneration request)	DPF wasn´t regenerated, power reduction phase 1 (manuell regeneration request)
1220	524022	14	7-8-6	DPF wurde nicht regeneriert, Leistungsreduktion Phase 2 (Manuelle Regenerationsanforderung)	DPF wurde nicht regeneriert, Leistungsreduktion Phase 2 (Manuelle Regenerationsanforderung)	DPF wasn´t regenerated, power reduction phase 2 (manuell regeneration request)	DPF wasn´t regenerated, power reduction phase 2 (manuell regeneration request)
1221	524023	14	7-8-6	DPF wurde nicht regeneriert, Warnung (Modus manuelle Regenerationsanforderung)	DPF wurde nicht regeneriert, Warnung (Modus manuelle Regenerationsanforderung)	DPF wasn´t regenerated, warning condition (manuell regeneration mode)	DPF wasn´t regenerated, warning condition (manuell regeneration mode)
1222	190	14	2-1-2	Drehzahlerfassung; Außerhalb des zulässigen Bereichs, Signal gestört	Nockenwellen- und Kurbelwellensensor Signal nicht verfügbar auf CAN-Bus	Speed detection; out of range, signal disrupted	Camshaft- and Crankshaft speed sensor signal not available on CAN
1223	51	5	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Kabelbruch	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); open load
1224	51	6	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); elektrisch überlastet	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); over current
1225	51	12	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Leistungsstufe Übertemperatur	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); over temperature
1226	51	3	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Batteriekurzschluss (A02)	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to battery (A02)
1227	51	3	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Batteriekurzschluss (A67)	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to battery (A67)
1228	51	4	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Massekurzschluss (A02)	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to ground (A02)
1229	51	4	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Massekurzschluss (A67)	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); short circuit to ground (A67)

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1230	51	6	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Überlast durch Kurzschluß	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); Overload by short-circuit
1231	51	11	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Leistungsstufe Übertemperatur durch zu	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); Power stage overtemperature due to high current
1232	51	4	5-9-4	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Interner Fehler	Aktuator AGR Ventil (2.9;3.6) Drosselklappe (6.1;7.8); Spannung unter Grenzwert	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error	Actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); Voltage below threshold
1243	523988	5	7-9-2	Ladekontrollleuchte; Kabelbruch	Ladekontrollleuchte; Kabelbruch	Charging lamp; open load	Charging lamp; open load
1244	523988	12	7-9-2	Ladekontrollleuchte; Übertemperatur	Ladekontrollleuchte; Übertemperatur	Charging lamp; over temperature	Charging lamp; over temperature
1245	523988	3	7-9-2	Ladekontrollleuchte; Batteriekurzschluss	Ladekontrollleuchte; Batteriekurzschluss	Charging lamp; short circuit to battery	Charging lamp; short circuit to battery
1246	523988	4	7-9-2	Ladekontrollleuchte; Massekurzschluss	Ladekontrollleuchte; Massekurzschluss	Charging lamp; short circuit to ground	Charging lamp; short circuit to ground
1247	524019	11	8-6-2	Luftpumpe; Luftleitung blockiert	Luftpumpe; Luftleitung blockiert	Air Pump; air lines blocked	Air Pump; air lines blocked
1248	523910	9	6-9-5	Luftpumpe; CAN-Kommunikation unterbrochen	Luftpumpe; CAN-Kommunikation unterbrochen	Air Pump; CAN communication lost	Air Pump; CAN communication lost
1249	523910	7	6-9-5	Luftpumpe; CAN-Kommunikation unterbrochen keine Spülfunktion vorhanden	Luftpumpe; CAN-Kommunikation unterbrochen keine Spülfunktion vorhanden	Air pump; CAN communication interrupted no purge function available	Air pump; CAN communication interrupted no purge function available
1250	523910	12	6-9-5	Luftpumpe; Interner Fehler	Luftpumpe; Interner Fehler	Air Pump; internal error	Air Pump; internal error
1251	523910	0	6-9-5	Luftpumpe; Interner Fehler	Luftpumpe; Leistungsstufe Übertemperatur	Air Pump; internal error	Air Pump; powerstage over temperature
1252	523910	0	6-9-5	Luftpumpe; Interner Fehler	Luftpumpe; Betriebsspannungsfehler	Air Pump; internal error	Air Pump; operating voltage error
1253	523911	7	8-5-0	Brennerdosierventil (DV2); geschlossen blockiert	Brennerdosierventil (DV2); geschlossen blockiert	Burner dosing valve (DV2); blocked closed	Burner dosing valve (DV2); blocked closed
1254	524014	1	8-5-8	Luftdruck Glühkerzenspülleitung; Minimalwert unterschritten	Luftdruck Glühkerzenspülleitung; Minimalwert unterschritten	Air pressure glow plug flush line; below limit	Air pressure glow plug flush line; below limit
1255	524013	7	8-5-7	Brennerbetrieb gestört	Brennerbetrieb zu oft unterbrochen	Burner operation disturbed	Burner operation is interrupted too often
1256	523915	7	8-5-2	HCl Dosierventil (DV1); blockiert	HCl Dosierventil (DV1); geschlossen blockiert	HCl dosing valve (DV1); blocked	HCl dosing valve (DV1); blocked closed
1257	523915	7	8-5-3	HCl Dosierventil (DV1); blockiert	HCl Dosierventil (DV1); offen blockiert	HCl dosing valve (DV1); blocked	HCl dosing valve (DV1); blocked open
1258	524016	11	8-5-9	HFM Sensor; elektrischer Fehler	HFM Sensor; elektrischer Fehler	HFM sensor; electrical fault	HFM sensor; electrical fault
1259	524016	2	8-5-9	Luftpumpe; Luftmenge nicht plausibel	Geförderte Luftmenge nicht plausibel zur Pumpendrehzahl	Air Pump; air flow is not plausible	Amount of air is not plausible to pump speed
1260	524016	2	8-5-9	Luftpumpe; Luftmenge nicht plausibel	Berechnetet Luftmenge nicht plausibel zu HFM Messwert	Air Pump; air flow is not plausible	Calculated amount of air is not plausible to HFM reading
1261	523910	6	6-9-5	Luftpumpe; elektrisch überlastet	Luftpumpe; elektrisch überlastet	Air Pump; over current	Air Pump; over current
1262	523922	7	8-5-4	Shut Off Valve; blockiert	Brenner Shut Off Valve; geschlossen blockiert	Shut off valve: blocked	Burner Shut Off Valve; blocked closed
1263	524021	11	8-6-4	Brenner Kraftstoffleitung nach Shut Off Valve undicht	Brenner Kraftstoffleitung nach Shut Off Valve undicht	Burner fuel line pipe leak behind Shut Off Valve	Burner fuel line pipe leak behind Shut Off Valve
1264	523922	7	8-5-5	Shut Off Valve; blockiert	Brenner Shut Off Valve; offen blockiert	Shut off valve: blocked	Burner Shut Off Valve; blocked open
1265	524017	12	8-6-0	Zündkerzenkontrolle (SPCU); Interner Fehler	Zündkerzenkontrolle (SPCU); elektrischer Fehler	Spark plug control unit (SPCU); internal error	Spark plug control unit (SPCU); electrical fault
1266	524017	12	8-6-1	Zündkerzenkontrolle (SPCU); Interner Fehler	Zündkerzenkontrolle (SPCU); interner Fehler	Spark plug control unit (SPCU); internal error	Spark plug control unit (SPCU); internal error
1267	523989	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 7 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 7 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 7 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 7 (in firing order); maximum value exceeded
1268	523990	0	7-2-4	Fuel Balance Control Korrekturwert Injektor 8 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control Korrekturwert Injektor 8 (nach Zündfolge); Maximalwert überschritten	Fuel Balance Control integrator injector 8 (in firing order); maximum value exceeded	Fuel Balance Control integrator injector 8 (in firing order); maximum value exceeded
1269	523989	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 7 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 7 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 7 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 7 (in firing order); minimum value exceeded
1270	523990	1	7-2-4	Fuel Balance Control Korrekturwert Injektor 8 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control Korrekturwert Injektor 8 (nach Zündfolge); Minimalwert unterschritten	Fuel Balance Control integrator injector 8 (in firing order); minimum value exceeded	Fuel Balance Control integrator injector 8 (in firing order); minimum value exceeded
1279	523992	9		Timeout der CAN-Empfangsbotschaft DM19Vol1; NOX Sensor vor Katalysator	Timeout der CAN-Empfangsbotschaft DM19Vol1; NOX Sensor vor Katalysator	Timeout Error of CAN-Receive-Frame DM19Vol1; NOX sensor upstream	Timeout Error of CAN-Receive-Frame DM19Vol1; NOX sensor upstream
1283	523993	9		Timeout der CAN-Empfangsbotschaft DM19Vol2; NOX Sensor nach Katalysator	Timeout der CAN-Empfangsbotschaft DM19Vol2; NOX Sensor nach Katalysator	Timeout Error of CAN-Receive-Frame DM19Vol2; NOX sensor downstream	Timeout Error of CAN-Receive-Frame DM19Vol2; NOX sensor downstream
1285	524038	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys1TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys1TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys1TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys1TO (error memory Slave); Master-Slave internal CAN message
1286	524039	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys2TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys2TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys2TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys2TO (error memory Slave); Master-Slave internal CAN message
1287	524040	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys3TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys3TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys3TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys3TO (error memory Slave); Master-Slave internal CAN message
1288	524041	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys4TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys4TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys4TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys4TO (error memory Slave); Master-Slave internal CAN message
1289	524042	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys5TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys5TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys5TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys5TO (error memory Slave); Master-Slave internal CAN message
1290	524043	9		Timeout der CAN-Empfangsbotschaft ComMS_Sys6TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout der CAN-Empfangsbotschaft ComMS_Sys6TO (Fehlerspeicher Slave); Master Slave interne CAN Botschaft	Timeout error of CAN-Receive-Frame ComMS_Sys6TO (error memory Slave); Master-Slave internal CAN message	Timeout error of CAN-Receive-Frame ComMS_Sys6TO (error memory Slave); Master-Slave internal CAN message
1291	524045	9		Master-Slave CAN; Nachrichtenzähler-Fehler der CAN-Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Nachrichtenzähler-Fehler der CAN-Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Message-Counter-Error of CAN-Receive-Frame ComMSMoFOvR	Master-Slave CAN; Message-Counter-Error of CAN-Receive-Frame ComMSMoFOvR
1292	524046	9		Master-Slave CAN; Checksummen-Fehler der CAN-Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Checksummen-Fehler der CAN-Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Checksum-Error of CAN-Receive-Frame ComMSMoFOvR	Master-Slave CAN; Checksum-Error of CAN-Receive-Frame ComMSMoFOvR
1293	524047	9		Master-Slave CAN; Nachrichten-Längen-Fehler der CAN Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Nachrichten-Längen-Fehler der CAN Empfangsbotschaft ComMSMoFOvR	Master-Slave CAN; Messsage-Length-Error of CAN-Receive-Frame ComMSMoFOvR	Master-Slave CAN; Messsage-Length-Error of CAN-Receive-Frame ComMSMoFOvR
1294	524048	9		CAN Botschaft ComMSMoFOvR1TO Timeout Fehlerspeicher Slave	CAN Botschaft ComMSMoFOvR1TO Timeout Fehlerspeicher Slave	Timeout error CAN message ComMSMoFOvR1TO error memory Slave	Timeout error CAN message ComMSMoFOvR1TO error memory Slave
1295	524049	9		Kopierfehler von Botschaften in der Master / Slave Datenübertragung	Kopierfehler von Botschaften in der Master / Slave Datenübertragung	Message copy error in the Master / Slave data transfer	Message copy error in the Master / Slave data transfer
1297	523788	0	6-5-5	Turbolader Wastegate; CAN Fehler	CAN-Sendebotschaft ComTrbChActr "BusOff-Status"; Wastegate	Turbo charger wastegate; CAN Fehler	CAN-Transmit-Frame ComTrbChActr "BusOff-Satus"; Wastegate
1298	523788	0	6-5-5	Turbolader Wastegate; CAN Fehler	CAN-Sendebotschaft ComTrbChActr deaktiviert; Wastegate	Turbo charger wastegate; CAN Fehler	CAN-Transmit-Frame ComTrbChActr disable error; wastegate
1299	523788	0	6-5-5	Turbolader Wastegate; CAN Fehler	CAN-Sendebotschaft ComTrbChActr Plausibilitäts-Fehler; Wastegate	Turbo charger wastegate; CAN Fehler	CAN-Transmit-Frame ComTrbChActr plausibility error; wastegate
1300	523788	0	6-5-5	Turbolader Wastegate; CAN Fehler	Timeout der CAN-Sendebotschaft ComTrbChActr; Wastegate	Turbo charger wastegate; CAN Fehler	Timeout Error of CAN-Transmit-Frame ComTrbChActr; Wastegate
1302	524024	11	8-6-6	Abweichung der Abgastemperatur Sollert zu Istwert nach (DOC) zu groß	Abweichung der Abgastemperatur Sollert zu Istwert nach (DOC) zu groß	Deviation of the exhaust gas temperature setpoint to actual value downstream (DOC) too high	Deviation of the exhaust gas temperature setpoint to actual value downstream (DOC) too high
1324	523995	13	7-9-5	Fehlender Injektor Korrekturwert (IMA) Injektor 7 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 7 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 7 (in firing order)	check of missing injector adjustment value programming (IMA) injector 7 (in firing order)
1325	523996	13	7-9-6	Fehlender Injektor Korrekturwert (IMA) Injektor 8 (nach Zündfolge)	Fehlender Injektor Korrekturwert (IMA) Injektor 8 (nach Zündfolge)	check of missing injector adjustment value programming (IMA) injector 8 (in firing order)	check of missing injector adjustment value programming (IMA) injector 8 (in firing order)
1327	523998	4	7-9-8	Injektor Zylinder Bank 2 Slave; Kurzschluss	Injektor Zylinder Bank 2 Slave; Kurzschluss	Injector cylinder bank 2 slave; short circuit	Injector cylinder bank 2 slave; short circuit
1328	523999	12	7-9-9	Injektoransteuerung Slave defekt	Injektoransteuerung Slave defekt	Injector powerstage output Slave defect	Injector powerstage output Slave defect
1329	524000	5	8-0-0	Injektor 7 (nach Zündfolge); Stromunterbrechung	Injektor 7 (nach Zündfolge); Stromunterbrechung	Injector 7 (in firing order); interruption of electric connection	Injector 7 (in firing order); interruption of electric connection
1330	524001	5	8-0-1	Injektor 8 (nach Zündfolge); Stromunterbrechung	Injektor 8 (nach Zündfolge); Stromunterbrechung	Injector 8 (in firing order); interruption of electric connection	Injector 8 (in firing order); interruption of electric connection
1333	524000	3	8-0-0	Injektor 7 (nach Zündfolge); Kurzschluss	Injektor 7 (nach Zündfolge); Kurzschluss	Injector 7 (in firing order); short circuit	Injector 7 (in firing order); short circuit
1334	524001	3	8-0-1	Injektor 8 (nach Zündfolge); Kurzschluss	Injektor 8 (nach Zündfolge); Kurzschluss	Injector 8 (in firing order); short circuit	Injector 8 (in firing order); short circuit
1335	524000	4	8-0-0	Kurzschluss im Injektor 7 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 7 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 7 (in firing order)	High side to low side short circuit in the injector 7 (in firing order)

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1336	524001	4	8-0-1	Kurzschluss im Injektor 8 (nach Zündfolge) zwischen High-side und Low-side	Kurzschluss im Injektor 8 (nach Zündfolge) zwischen High-side und Low-side	High side to low side short circuit in the injector 8 (in firing order)	High side to low side short circuit in the injector 8 (in firing order)
1337	2797	4		Injektor Diagnose; Timeout der Massekurzschluss Überwachung Zyl. Bank 0	Injektor Diagnose; Timeout der Massekurzschluss Überwachung Zyl. Bank 0	Injector diagnostics; timeout error of short circuit to ground measurement cyl. Bank 0	Injector diagnostics; timeout error of short circuit to ground measurement cyl. Bank 0
1338	2798	4		Injektor Diagnose; Timeout der Massekurzschluss Überwachung Zyl. Bank 1	Injektor Diagnose; Timeout der Massekurzschluss Überwachung Zyl. Bank 1	Injector diagnostics; timeout error of short circuit to ground measurement cyl. Bank 1	Injector diagnostics; timeout error of short circuit to ground measurement cyl. Bank 1
1339	2798	4		Injektor Diagnose; Kurzschluss Bank 0, Bank 1	Injektor Diagnose; Test Massekurzschluss Überwachung Zyl. Bank 0	Injector diagnostics; short circuit Bank 0, Bank 1	Injector diagnostics; short circuit to ground monitoring Test in Cyl. Bank 0
1340	2798	4		Injektor Diagnose; Kurzschluss Bank 0, Bank 1	Injektor Diagnose; Test Massekurzschluss Überwachung Zyl. Bank 1	Injector diagnostics; short circuit Bank 0, Bank 1	Injector diagnostics; short circuit to ground monitoring Test in Cyl. Bank 1
1341	524035	12	5-5-5	Injektor Diagnose; Timeout der SPI Kommunikation	Injektor Diagnose; Timeout der SPI Kommunikation	Injector diagnostics; time out error in the SPI communication	Injector diagnostics; time out error in the SPI communication
1342	524036	12		Injektor Diagnose Slave; Timeout der SPI Kommunikation	Injektor Diagnose Slave; Timeout der SPI Kommunikation	Injector diagnostics Slave; time out error in the SPI communication	Injector diagnostics Slave; time out error in the SPI communication
1343	524004	12	8-0-4	Zu viele Fehlzündungen in Zylinder 7 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 7 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 7 (in firing order)	Too many recognized misfires in cylinder 7 (in firing order)
1344	524005	12	8-0-5	Zu viele Fehlzündungen in Zylinder 8 (nach Zündfolge) erkannt	Zu viele Fehlzündungen in Zylinder 8 (nach Zündfolge) erkannt	Too many recognized misfires in cylinder 8 (in firing order)	Too many recognized misfires in cylinder 8 (in firing order)
1345	524069	9		Timeout der CAN-Empfangsbotschaft MSMon_FidFCCTO; Master-Slave CAN Kommunikation fehlerhaft	Timeout der CAN-Empfangsbotschaft MSMon_FidFCCTO; Master-Slave CAN Kommunikation fehlerhaft	Timeout Error of CAN-Receive-Frame MSMon_FidFCCTO; Master-Slave CAN communication faulty	Timeout Error of CAN-Receive-Frame MSMon_FidFCCTO; Master-Slave CAN communication faulty
1357	524052	11		MS Steuergrät meldet Internen Fehler	Fehlerspeicher Slave meldet FID MSMonFC2; Shut-Off Path Test Fehler des Kraftstoffeinspritzsystem	MS ECU reported internal error	Error memory Slave reports FID MSMonFC2; Shut-Off Path test error of fuel injection system
1368	524052	11		MS Steuergrät meldet Internen Fehler	Fehlerspeicher Slave meldet FID MSMonFC3; Timeout der Motor Statusmeldungen (ComMS_Sys1-7) vom Master ECU	MS ECU reported internal error	Error memory Slave reports FID MSMonFC3; timeout of engine state messages (ComMS_Sys1-7) from master ECU
1378	523919	2	6-9-4	Sensor Luftdruck Luftpumpe; Signal unplausibel	Sensor Luftdruck Luftpumpe; Signal unplausibel	Sensor airpump pressure; plausibility error	Sensor air pump airpressure; plausibility error
1379	523920	2	7-1-6	Sensor Abgasgegendruck Brenner; Signal unplausibel	Sensor Abgasgegendruck Brenner; Signal unplausibel	Sensor exhaustgas back pressure; plausibility error	Sensor exhaust gas back pressure burner; plausibility error
1380	3253	2	6-9-2	Sensor Differenzdruck (DPF); Signal unplausibel	Sensor Differenzdruck (DPF); Signal unplausibel	Sensor differential pressure (DPF); plausibility error	Sensor differential pressure (DPF); plausibility error
1381	164	2	8-3-9	Raildrucksicherheitsfunktion nicht korrekt ausgeführt	Raildrucksicherheitsfunktion nicht korrekt ausgeführt	Rail pressure safety function is not executed correctly	Rail pressure safety function is not executed correctly
1389	523922	5	7-1-5	Brenner Shut Off Valve; Kabelbruch	Brenner Shut Off Valve; Kabelbruch	Burner Shut Off Valve; open load	Burner Shut Off Valve; open load
1390	523922	12	7-1-5	Brenner Shut Off Valve; Übertemperatur	Brenner Shut Off Valve; Übertemperatur	Over temperature error on burner shut of valve	Burner Shut Off Valve; powerstage over temperature
1392	523922	4	7-1-5	Brenner Shut Off Valve; Massekurzschluss	Brenner Shut Off Valve; Massekurzschluss	Burner shut of valve; short circuit to ground	Burner Shut Off Valve; short circuit to ground
1395	523921	2	7-1-4	Sensor Brennertemperatur; Signal unplausibel	Sensor Brennertemperatur; Signal unplausibel	Sensor burner temperature; plausibility error	Sensor burner temperature; plausibility error
1398	1136	0	6-8-1	ECU Temperatur; Maximalwert überschritten	ECU Temperatur; Maximalwert überschritten	Physikal range check high for ECU temperature	Physikal range check high for ECU temperature
1399	1136	1	6-8-1	ECU Temperatur; Minimalwert unterschritten	ECU Temperatur; Minimalwert unterschritten	Physikal range check low for ECU temperature	Physikal range check low for ECU temperature
1400	1136	3	6-8-1	Sensorfehler ECU Temperatur; Signalbereich überschritten	Sensorfehler ECU Temperatur; Signalbereich überschritten	Sensor error ECU temperature; signal range check high	Sensor error ECU temperature; signal range check high
1401	1136	4	6-8-1	Sensorfehler ECU Temperatur; Signalbereich unterschritten	Sensorfehler ECU Temperatur; Signalbereich unterschritten	Sensor error ECU temperature; signal range check low	Sensor error ECU temperature; signal range check low
1402	4769	2	6-8-4	Sensor Abgastemperatur nach (DOC); Signal unplausibel	Sensor Abgastemperatur nach OxiCat (Normalbetrieb); Signal unplausibel	Sensor exhaust gas temperature (DOC) downstream; plausibility error	Sensor exhaust gas temperature OxiCat downstream (normal operation); plausibility error
1403	4769	2	6-8-4	Sensor Abgastemperatur nach (DOC); Signal unplausibel	Sensor Abgastemperatur nach OxiCat (Regeneration); Signal unplausibel	Sensor exhaust gas temperature (DOC) downstream; plausibility error	Sensor exhaust gas temperature OxiCat downstream (regeneration); plausibility error
1404	3248	2	6-8-5	Sensor Abgastemperatur nach Partikelfilter; Signal unplausibel	Sensor Abgastemperatur nach Partikelfilter; Signal unplausibel	Sensor exhaust gas temperature downstream DPF; plausibility error	Sensor exhaust gas temperature downstream DPF; plausibility error
1405	3248	0	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter; Maximalwert überschritten	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physical range check high for exhaust gas temperature particulate filter downstream
1406	3248	0	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter Maximalwert überschritten; Abschaltung Regeneration	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physical range check high for exhaust gas temperature particulate filter downstream; shut off regeneration
1407	3248	0	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter Maximalwert überschritten; Warnung	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physical range check high for exhaust gas temperature particulate filter downstream; warning
1408	3248	1	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter; Minimalwert unterschritten	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physical range check low for exhaust gas temperature particulate filter downstream
1409	3248	1	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter Minimalwert unterschritten; Abschaltung Regeneration	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physikal range check low for exhaust gas temperature particulate filter downstream; shut off regeneration
1410	3248	1	6-8-5	Abgastemperatur nach Partikelfilter; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach Partikelfilter Minimalwert unterschritten; Warnung	Exhaust gas temperature particulate filter downstream; out of range, system reaction initiated	Physical range check low for exhaust gas temperature particulate filter downstream; warning
1411	1188	11	8-1-4	Turbolader Wastegate Steller; Interner Fehler	Wastegate Steller; Interner Fehler	Turbo charger wastegate actuator; internal error	Wastegate actuator; internal error
1412	1188	11	8-1-4	Turbolader Wastegate Steller; Interner Fehler	Wastegate Steller; EOL Kalibrierung nicht korrekt durchgeführt	Turbo charger wastegate actuator; internal error	Wastegate actuator; EOL calibration not performed correctly
1413	1188	13	8-1-4	Wastegate Steller Abweichung zu Kalibrierwert zu groß, Neukalibrierung erforderlich	Wastegate Steller Abweichung zu Kalibrierwert zu groß, Neukalibrierung erforderlich	Wastegate actuator calibration deviation too large, recalibration required	Wastegate actuator calibration deviation too large, recalibration required
1414	1188	2	8-1-4	Wastegate; Statusbotschaft von Steuergerät fehlt	Wastegate; Statusbotschaft von Steuergerät fehlt	Wastegate; status message from ECU missing	Wastegate; status message from ECU missing
1415	1188	7	8-1-4	Wastegate Steller; blockiert	Wastegate Steller; blockiert	Wastegate actuator; blocked	Wastegate actuator; blocked
1416	1188	11	8-1-4	Turbolader Wastegate Steller; Interner Fehler	Wastegate Steller; Übertemperatur (> 145°C)	Turbo charger wastegate actuator; internal error	Wastegate actuator; over temperature (> 145°C)
1417	1188	11	8-1-4	Turbolader Wastegate Steller; Interner Fehler	Wastegate Steller; Übertemperatur (> 135°C)	Turbo charger wastegate actuator; internal error	Wastegate actuator; over temperature (> 135°C)
1418	1188	11	8-1-4	Turbolader Wastegate Steller; Interner Fehler	Wastegate Steller; Betriebsspannungsfehler	Turbo charger wastegate actuator; internal error	Wastegate actuator; operating voltage error
1419	524011	0	7-7-2	Nullmengenkalibrierung Injektor 7 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 7 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 7 (in firing order); maximum value exceeded	Zerofuel calibration injector 7 (in firing order); maximum value exceeded
1420	524012	0	7-7-2	Nullmengenkalibrierung Injektor 8 (nach Zündfolge); Maximalwert überschritten	Nullmengenkalibrierung Injektor 8 (nach Zündfolge); Maximalwert überschritten	Zerofuel calibration injector 8 (in firing order); maximum value exceeded	Zerofuel calibration injector 8 (in firing order); maximum value exceeded
1421	524011	1	7-7-2	Nullmengenkalibrierung Injektor 7 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 7 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 7 (in firing order); minimum value exceeded	Zerofuel calibration injector 7 (in firing order); minimum value exceeded
1422	524012	1	7-7-2	Nullmengenkalibrierung Injektor 8 (nach Zündfolge); Minimalwert unterschritten	Nullmengenkalibrierung Injektor 8 (nach Zündfolge); Minimalwert unterschritten	Zerofuel calibration injector 8 (in firing order); minimum value exceeded	Zerofuel calibration injector 8 (in firing order); minimum value exceeded
1431	524028	2	8-1-5	CAN Botschaft PROEGRActr unplausibel	CAN Botschaft PROEGRActr unplausibel	CAN message PROEGRActr; plausibility error	CAN message PROEGRActr; plausibility error
1432	524029	2	8-1-5	Timeout CAN Empfangsbotschaft ComEGRActr - Abgasrückführsteller	Timeout CAN Empfangsbotschaft ComEGRActr - Abgasrückführsteller	Timeout Error of CAN-Receive-Frame ComEGRActr - exhaust gas recirculation positioner	Timeout Error of CAN-Receive-Frame ComEGRActr - exhaust gas recirculation positioner
1436	524034	5	8-1-6	Tellerseparator; Kabelbruch	Tellerseparator; Kabelbruch	Disc Separator; open load	Disc Separator; open load
1437	524034	12	8-1-6	Tellerseparator; Leistungsstufe Übertemperatur	Tellerseparator; Leistungsstufe Übertemperatur	Disc Separator; powerstage over temperature	Disc Separator; powerstage over temperature
1438	524034	3	8-1-6	Tellerseparator; Batteriekurzschluss	Tellerseparator; Batteriekurzschluss	Disc separator; short circuit to battery	Disc separator; short circuit to battery
1439	524034	4	8-1-6	Tellerseparator; Massekurzschluss	Tellerseparator; Massekurzschluss	Disc separator; short circuit to ground	Disc separator; short circuit to ground
1440	524030	7		AGR Steller; interner Fehler	AGR Steller; interner Fehler	EGR actuator; internal error	EGR actuator; internal error
1441	524031	13		AGR Steller; Kalibrierfehler	AGR Steller; Kalibrierfehler	EGR actuator; calibration error	EGR actuator; calibration error
1442	524032	2		AGR Steller; Statusbotschaft "EGRCust" fehlt	AGR Steller; Statusbotschaft "EGRCust" fehlt	EGR actuator; status message "EGRCust" is missing	EGR actuator; status message "EGRCust" is missing
1443	524033	7		AGR Steller; wegen Überlastung im Sicherheitsmodus	AGR Steller; wegen Überlastung im Sicherheitsmodus	EGR actuator; due to overload in Save Mode	EGR actuator; due to overload in Save Mode
1444	2621	5		Spülventil Brenner (EPV DPF-System); Kabelbruch	Spülventil Brenner (EPV DPF-System); Kabelbruch	Flush valve burner (EPV DPF-System); open load	Flush valve burner (EPV DPF-System); open load
1445	2621	12		Spülventil Brenner (EPV DPF-System); Leistungsstufe Übertemperatur	Spülventil Brenner (EPV DPF-System); Leistungsstufe Übertemperatur	Flush valve burner (EPV DPF-System); powerstage over temperature	Flush valve burner (EPV DPF-System); powerstage over temperature
1446	2621	3		Spülventil Brenner (EPV DPF-System); Batteriekurzschluss	Spülventil Brenner (EPV DPF-System); Batteriekurzschluss	Flush valve burner (EPV DPF-System); short circuit to battery	Flush valve burner (EPV DPF-System); short circuit to battery
1447	2621	4		Spülventil Brenner (EPV DPF-System); Massekurzschluss	Spülventil Brenner (EPV DPF-System); Massekurzschluss	Flush valve burner (EPV DPF-System); short circuit to ground	Flush valve burner (EPV DPF-System); short circuit to ground
1448	175	0	1-4-4	Motoröltemperatur; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Kundenseitige Öltemperatur zu hoch; Warnschwelle erreicht	Oil temperature; out of range, system reaction initiated	High customer oil temperature; warning threshold exceeded

KWP-Code	SPN	FMI	Blinkcode	Fehleridentifikation	Kurztext Detail	Error Identification	Short Text Detail
1449	175	0	1-4-4	Motoröltemperatur; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Kundenseitige Öltemperatur zu hoch; Abschaltschwelle erreicht	Oil temperature; out of range, system reaction initiated	High customer oil temperature; shut off threshold exceeded
1455	3711	12		Regenerationstemperatur (PfltRgn LightOff) wird nicht erreicht; Abbruch der Regeneration	Regenerationstemperatur (PfltRgn LightOff) wird nicht erreicht; Abbruch der Regeneration	Regeneration temperature (PfltRgn LigtOff) not reached; regeneration aborted	Regeneration temperature (PfltRgn LigtOff) not reached; regeneration aborted
1457	524055	4		Zündkerzen Kontrolle (SPCU); Massekurzschluss	Zündkerzen Kontrolle (SPCU); Massekurzschluss	Spark Plug Control Unit (SPCU); short circuit to ground	Spark Plug Control Unit (SPCU); short circuit to ground
1458	523960	0	7-7-1	Abgastemperatur nach AGR Kühler; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach AGR Kühler zu hoch; Warnschwelle erreicht	Exhaust gas temperature EGR downstream; out of range, system reaction initiated	High exhaust gas temperature EGR cooler downstream; warning threshold exceeded
1459	523960	1	7-7-1	Abgastemperatur nach AGR Kühler; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur nach AGR Kühler zu hoch; Abschaltschwelle erreicht	Exhaust gas temperature EGR downstream; out of range, system reaction initiated	High exhaust gas temperature EGR cooler downstream; shut off threshold exceeded
1460	1180	0	8-1-4	Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Turbolader Wastegate CAN Rückmeldung; Temperatur über Warnschwelle	Exhaust gas temperature turbine upstream; out of range, system reaction initiated	Turbocharger Wastegate CAN feedback; warning threshold exceeded
1461	1180	1	8-1-4	Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Turbolader Wastegate CAN Rückmeldung; Temperatur über Abschaltschwelle	Exhaust gas temperature turbine upstream; out of range, system reaction initiated	Turbocharger Wastegate CAN feedback; shut off threshold exceeded
1462	1180	0	5-5-6	Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur vor Turbine; Warnschwelle erreicht	Exhaust gas temperature turbine upstream; out of range, system reaction initiated	Exhaust gas temperature upstream turbine; warning threshold exceeded
1463	1180	1	5-5-6	Abgastemperatur vor Tubine; Außerhalb des zulässigen Bereichs, Systemreaktion ausgelöst	Abgastemperatur vor Turbine; Abschaltschwelle erreicht	Exhaust gas temperature turbine upstream; out of range, system reaction initiated	Exhaust gas temperature upstream turbine; shut off threshold exceeded
1474	524037	5		Aschelampe; Kabelbruch	Aschelampe; Kabelbruch	Ashlamp; open load	Ashlamp; open load
1475	84	2	5-2-1	Sensor Fahrzeuggeschwindigkeit; Signal unplausibel	Sensor Fahrzeuggeschwindigkeit; Signal unplausibel	Sensor vehicle speed; plausibility error	Sensor vehicle speed; plausibility error
1477	524037	3		Aschelampe; Batteriekurzschluss	Aschelampe; Batteriekurzschluss	Ashlamp; short circuit to battery	Ashlamp; short circuit to battery
1478	524037	4		Aschelampe; Massekurzschluss	Aschelampe; Massekurzschluss	Ashlamp; short circuit to ground	Ashlamp; short circuit to ground
1479	524062	12		EAT-System HMI Störung	Unterdrückungsschalter Regeneration nicht verfügbar; ComInhSwtNA	EAT-system HMI disrupted	Regeneration inhibit switch not available; ComInhSwtNA
1480	524062	12		EAT-System HMI Störung	Freigabeschalter Regeneration nicht verfügbar; ComRegSwtNA	EAT-system HMI disrupted	Regeneration release switch not available; ComRegSwtNA
1481	524025	5		DPF System; Betriebsspannungsfehler	DPF System; Betriebsspannungsfehler	DPF system; operating voltage error	DPF system; operating voltage error
1482	524044	9		CAN-Botschaft ComMS_Sys7 nicht von Slave empfangen	CAN-Botschaft ComMS_Sys7 nicht von Slave empfangen	CAN message ComMS_Sys7 not received from slave	CAN message ComMS_Sys7 not received from slave
1483	523632	2		Überprüfung SCR Zumesseinheit ist nicht durchgeführt worden	Überprüfung SCR Zumesseinheit ist nicht durchgeführt worden	Metering control is not performed in time error	Metering control is not performed in time error
1484	524068	2		Master ECU und Slave ECU haben sich als identische Typen identifiziert	Master ECU und Slave ECU haben sich als identische Typen identifiziert	Master ECU and Slave ECU have been identified as the same types	Master ECU and Slave ECU have been identified as the same types
1485	524052	11		MS Steuergrät meldet Internen Fehler	Master ECU und Slave ECU Datenstände oder Software nicht identisch	MS ECU reported internal error	Master ECU and Slave ECU data sets or software are not identical
1486	523718	5		SCR Hauptrelais; Kabelbruch (nur CV56B)	SCR Hauptrelais; Kabelbruch (nur CV56B)	SCR mainrelay; open load (only CV56B)	SCR mainrelay; open load (only CV56B)
1487	523718	12		SCR Hauptrelais; Leistungsstufe Übertemperatur (nur CV56B)	SCR Hauptrelais; Leistungsstufe Übertemperatur (nur CV56B)	SCR mainrelay; powerstage over temperature (only CV56B)	SCR mainrelay; powerstage over temperature (only CV56B)
1488	523718	3		SCR Hauptrelais; Batteriekurzschluss (nur CV56B)	SCR Hauptrelais; Batteriekurzschluss (nur CV56B)	SCR mainrelay; short circuit to battery (only CV56B)	SCR mainrelay; short circuit to battery (only CV56B)
1489	523718	4		SCR Hauptrelais; Massekurzschluss (nur CV56B)	SCR Hauptrelais; Massekurzschluss (nur CV56B)	SCR mainrelay; short circuit to ground (only CV56B)	SCR mainrelay; short circuit to ground (only CV56B)
1490	4376	5	6-6-7	SCR Umkehrventil; Kabelbruch	SCR Umkehrventil; Kabelbruch	SCR reversing valve; open load	SCR reversing valve; open load
1491	4376	12	6-6-7	SCR Umkehrventil; Übertemperatur	SCR Umkehrventil; Übertemperatur	SCR reversing valve; over temperature	SCR reversing valve; over temperature
1493	4376	4	6-6-7	SCR Umkehrventil; Massekurzschluss	SCR Umkehrventil; Massekurzschluss	SCR reversing valve; short circuit to ground	SCR reversing valve; short circuit to ground
1505	524057	2		Elektrische Kraftstoffpumpe; Kraftstoff-Druckaufbau Fehler	Elektrische Kraftstoffpumpe; Kraftstoff-Druckaufbau Fehler	Electric fuel pump; fuel pressure build up error	Electric fuel pump; fuel pressure build up error
1523	2659	2		Abgasrückführung AGS Sensor; Signal unplausibel	Abgasrückführung AGS Sensor; Signal unplausibel	Exhaust gas recirculation AGS sensor; plausibility error	Exhaust gas recirculation AGS sensor; plausibility error
1524	2659	0		Sensorfehler AGR Abgasmassenstrom; Maximalwert überschritten	Sensorfehler AGR Abgasmassenstrom; Maximalwert überschritten	Physical range check high for EGR exhaust gas mass flow	Physical range check high for EGR exhaust gas mass flow
1525	2659	1		Sensorfehler AGR Abgasmassenstrom; Minimalwert unterschritten	Sensorfehler AGR Abgasmassenstrom; Minimalwert unterschritten	Physical range check low for EGR exhaust gas mass flow	Physical range check low for EGR exhaust gas mass flow
1526	2659	12		Abgasrückführung; AGS Sensor hat "Freibrennen" nicht durchgeführt	Abgasrückführung; AGS Sensor hat "Freibrennen" nicht durchgeführt	Exhaust gas recirculation; AGS sensor has "burn off" not performed	Exhaust gas recirculation; AGS sensor has "burn off" not performed
1527	2659	2		Abgasrückführung AGS Sensor; Signal unplausibel	AGS Sensor Temperatur Abgasmassenstrom; Signal unplausibel	AGS sensor temperature exhaust gas mass flow; plausibility error	AGS sensor temperature exhaust gas mass flow; plausibility error
1615	3699	14		Maximale Stand-still-Dauer erreicht; Ölwechsel erforderlich	Maximale Stand-still-Dauer erreicht; Ölwechsel erforderlich	Maximum stand-still-duration reached; oil exchange required	Maximum stand-still-duration reached; oil exchange required
1616	3699	2		CRT System; Senorenfehler	Differenzdruck Sensor DPF und ein weiterer Sensor oder Aktuator CRT System defekt	DPF differential pressure sensor and a further sensor or actuator CRT system defective	DPF differential pressure sensor and a further sensor or actuator CRT system defective
1617	3699	2		CRT System; Senorenfehler	Temperatur Sensor vor und nach DOC gleichzeitig defekt	Temperature sensor us. and ds. DOC simultaneously defect	Temperature sensor us. and ds. DOC simultaneously defect
1659	524114	9		Timeout der CAN-Sendebotschaft A1DOC	Timeout der CAN-Sendebotschaft A1DOC	Timeout error of CAN-Transmit-Frame A1DOC	Timeout error of CAN-Transmit-Frame A1DOC
1660	524115	9		Timeout der CAN-Sendebotschaft AT1S	Timeout der CAN-Sendebotschaft AT1S	Timeout error of CAN-Transmit-Frame AT1S	Timeout error of CAN-Transmit-Frame AT1S
1661	524116	9		Timeout der CAN-Sendebotschaft SCR2	Timeout der CAN-Sendebotschaft SCR2	Timeout error of CAN-Transmit-Frame SCR2	Timeout error of CAN-Transmit-Frame SCR2
1662	524117	9		Timeout der CAN-Sendebotschaft SCR3	Timeout der CAN-Sendebotschaft SCR3	Timeout error of CAN-Transmit-Frame SCR3	Timeout error of CAN-Transmit-Frame SCR3
1663	524097	9		Timeout der CAN-Sendebotschaft DPFBrnAirPmpCtl	Timeout der CAN-Sendebotschaft DPFBrnAirPmpCtl	Timeout error of CAN-Transmit-Frame DPFBrnAirPmpCtl	Timeout error of CAN-Transmit-Frame DPFBrnAirPmpCtl
1664	524098	9		Timeout der CAN-Sendebotschaft ComDPFBrnPT	Timeout der CAN-Sendebotschaft ComDPFBrnPT	Timeout error of CAN-Transmit-Frame ComDPFBrnPT	Timeout error of CAN-Transmit-Frame ComDPFBrnPT
1665	524099	9		Timeout der CAN-Sendebotschaft ComDPFC0	Timeout der CAN-Sendebotschaft ComDPFC1	Timeout error of CAN-Transmit-Frame ComDPFC0	Timeout error of CAN-Transmit-Frame ComDPFC1
1666	524100	9		Timeout der CAN-Sendebotschaft ComDPFHisDat	Timeout der CAN-Sendebotschaft ComDPFHisDat	Timeout error of CAN-Transmit-Frame ComDPFHisDat	Timeout error of CAN-Transmit-Frame ComDPFHisDat
1667	524101	9		Timeout der CAN-Sendebotschaft ComDPFTstMon	Timeout der CAN-Sendebotschaft ComDPFTstMon	Timeout error of CAN-Transmit-Frame ComDPFTstMon	Timeout error of CAN-Transmit-Frame ComDPFTstMon
1668	524105	9		Timeout der CAN-Sendebotschaft ComEGRMsFlw	Timeout der CAN-Sendebotschaft ComEGRMsFlw	Timeout error of CAN-Transmit-Frame ComEGRMsFlw	Timeout error of CAN-Transmit-Frame ComEGRMsFlw
1669	524108	9		Timeout der CAN-Sendebotschaft ComEGRTVActr	Timeout der CAN-Sendebotschaft ComEGRTVActr	Timeout error of CAN-Transmit-Frame ComEGRTVActr	Timeout error of CAN-Transmit-Frame ComEGRTVActr
1670	524110	9		Timeout der CAN-Sendebotschaft ComETVActr	Timeout der CAN-Sendebotschaft ComETVActr	Timeout error of CAN-Transmit-Frame ComETVActr	Timeout error of CAN-Transmit-Frame ComETVActr
1671	524112	9		Timeout ComITVActr	Timeout ComITVActr	Timeout ComITVActr	Timeout ComITVActr
1672	524118	9		Timeout der CAN-Empfangsbotschaft ComRxCM0	Timeout der CAN-Empfangsbotschaft ComRxCM1	Timeout error of CAN-Receive-Frame ComRxCM0	Timeout error of CAN-Receive-Frame ComRxCM1
1673	524119	9		Timeout der CAN-Empfangsbotschaft ComRxCustSCR2	Timeout der CAN-Empfangsbotschaft ComRxCustSCR3	Timeout error of CAN-Receive-Frame ComRxCustSCR2	Timeout error of CAN-Receive-Frame ComRxCustSCR3
1674	524102	9		Timeout der CAN-Empfangsbotschaft ComRxDPFBrnAirPmpCtl	Timeout der CAN-Empfangsbotschaft ComRxDPFBrnAirPmpCtl	Timeout error of CAN-Receive-Frame ComRxDPFBrnAirPmpCtl	Timeout error of CAN-Receive-Frame ComRxDPFBrnAirPmpCtl
1675	524103	9		Timeout der CAN-Empfangsbotschaft ComRxDPFBrnAirPmp	Timeout der CAN-Empfangsbotschaft ComRxDPFBrnAirPmp	Timeout error of CAN-Receive-Frame ComRxDPFBrnAirPmp	Timeout error of CAN-Receive-Frame ComRxDPFBrnAirPmp
1676	524104	9		Timeout der CAN-Empfangsbotschaft ComRxDPFCtl	Timeout der CAN-Empfangsbotschaft ComRxDPFCtl	Timeout error of CAN-Receive-Frame ComRxDPFCtl	Timeout error of CAN-Receive-Frame ComRxDPFCtl
1677	524106	9		Timeout der CAN-Empfangsbotschaft ComRxEGRMsFlw1	Timeout der CAN-Empfangsbotschaft ComRxEGRMsFlw1	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw1	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw1
1678	524107	9		Timeout der CAN-Empfangsbotschaft ComRxEGRMsFlw2	Timeout der CAN-Empfangsbotschaft ComRxEGRMsFlw2	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw2	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw2
1679	524109	9		Timeout der CAN-Empfangsbotschaft ComRxEGRTVActr	Timeout der CAN-Empfangsbotschaft ComRxEGRTVActr	Timeout error of CAN-Receive-Frame ComRxEGRTVActr	Timeout error of CAN-Receive-Frame ComRxEGRTVActr
1680	524111	9		Timeout der CAN-Empfangsbotschaft ComRxETVActr	Timeout der CAN-Empfangsbotschaft ComRxETVActr	Timeout error of CAN-Receive-Frame ComRxETVActr	Timeout error of CAN-Receive-Frame ComRxETVActr
1681	524113	9		Timeout der CAN-Empfangsbotschaft ComRxITVActr	Timeout der CAN-Empfangsbotschaft ComRxITVActr	Timeout error of CAN-Receive-Frame ComRxITVActr	Timeout error of CAN-Receive-Frame ComRxITVActr
1682	524120	9		Timeout der CAN-Empfangsbotschaft ComRxSCRHtDiag	Timeout der CAN-Empfangsbotschaft ComRxSCRHtDiag	Timeout error of CAN-Receive-Frame ComRxSCRHtDiag	Timeout error of CAN-Receive-Frame ComRxSCRHtDiag
1683	524121	9		Timeout der CAN-Empfangsbotschaft ComRxTrbChActr	Timeout der CAN-Empfangsbotschaft ComRxTrbChActr	Timeout error of CAN-Receive-Frame ComRxTrbChActr	Timeout error of CAN-Receive-Frame ComRxTrbChActr
1684	524122	9		Timeout der CAN-Empfangsbotschaft ComRxUQSens	Timeout der CAN-Empfangsbotschaft ComRxUQSens	Timeout error of CAN-Receive-Frame ComRxUQSens	Timeout error of CAN-Receive-Frame ComRxUQSens
1685	524123	9		Timeout der CAN-Empfangsbotschaft ComSCRHtCtl	Timeout der CAN-Empfangsbotschaft ComSCRHtCtl	Timeout error of CAN-Receive-Frame ComSCRHtCtl	Timeout error of CAN-Receive-Frame ComSCRHtCtl
1686	524124	9		Timeout der CAN-Empfangsbotschaft ComTxAT1IMG	Timeout der CAN-Empfangsbotschaft ComTxAT1IMG	Timeout error of CAN-Receive-Frame ComTxAT1IMG	Timeout error of CAN-Receive-Frame ComTxAT1IMG
1687	524125	9		Timeout der CAN-Empfangsbotschaft ComTxTrbChActr	Timeout der CAN-Empfangsbotschaft ComTxTrbChActr	Timeout error of CAN-Receive-Frame ComTxTrbChActr	Timeout error of CAN-Receive-Frame ComTxTrbChActr

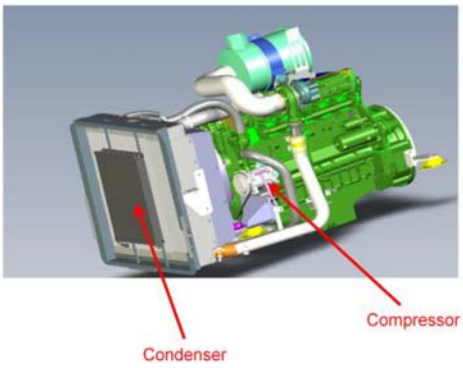
Air Conditioning

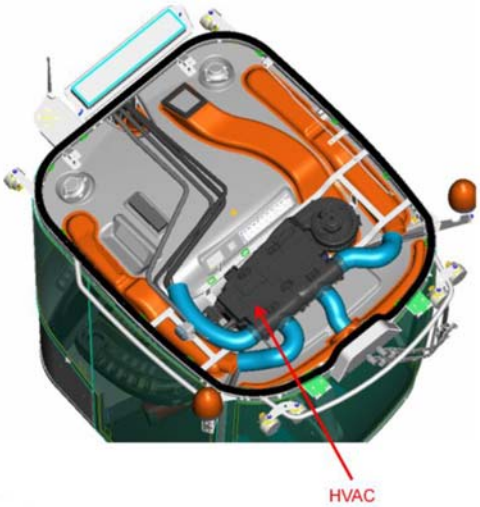
Panel

Previous Version

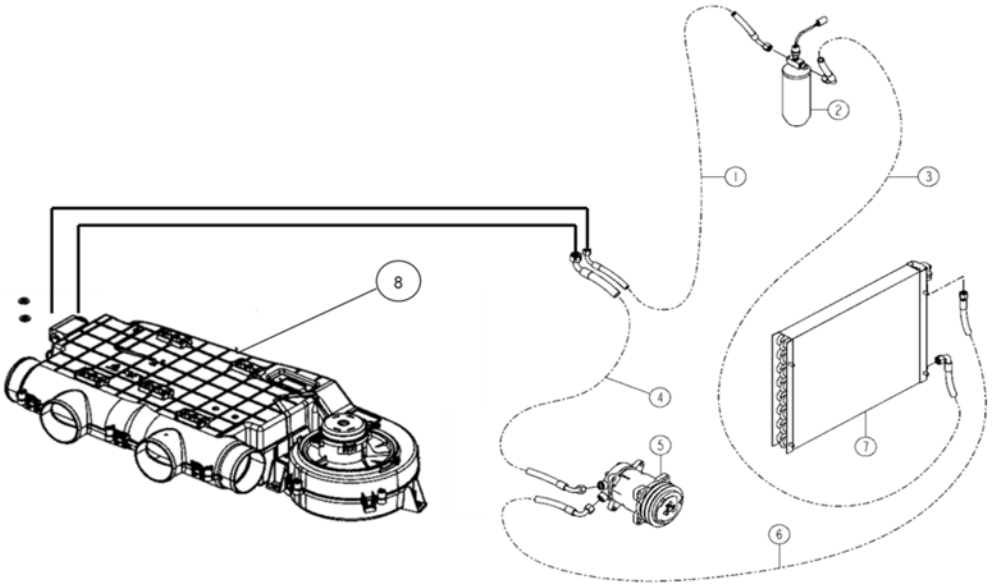
Present Version

Components/Locations



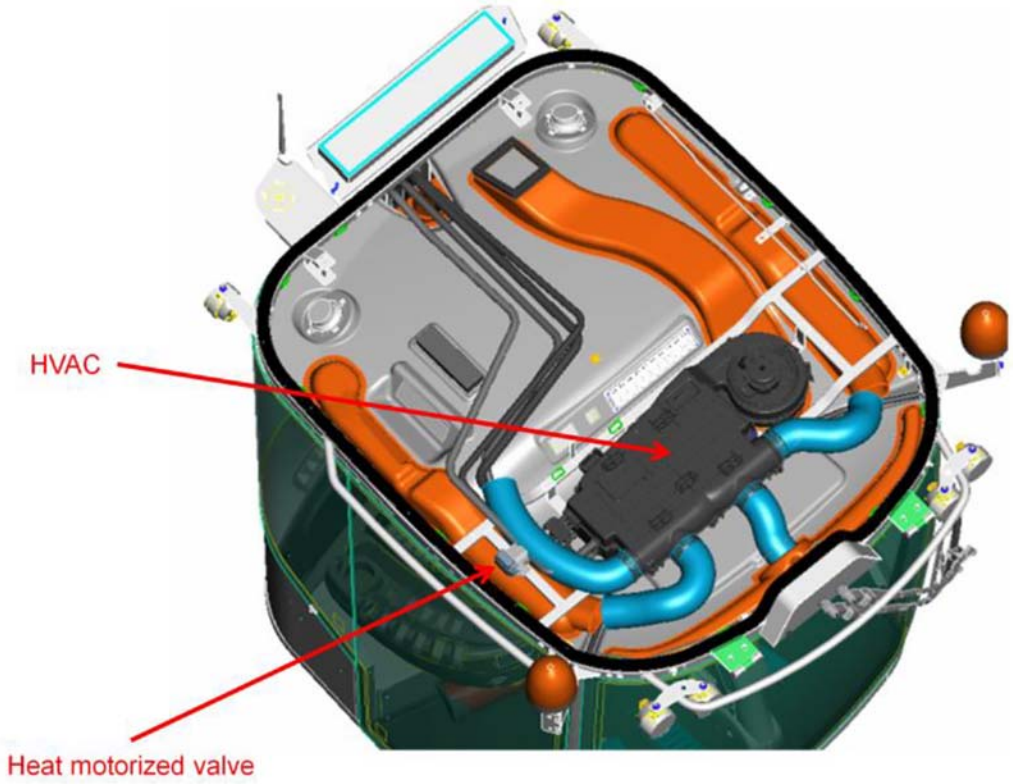


Fluid Circuit



Heating

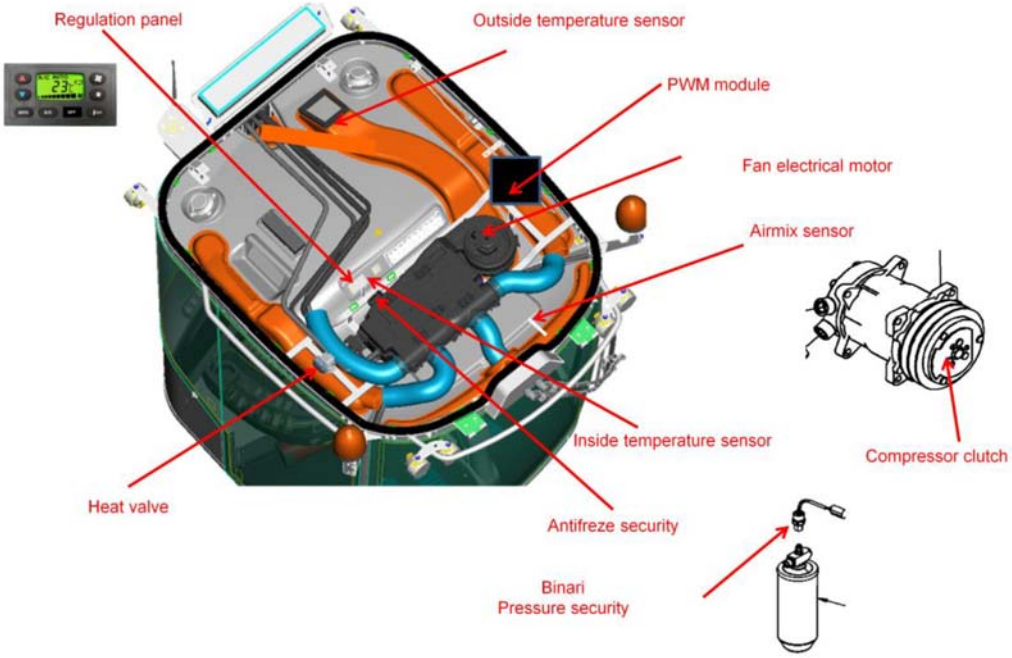
Components



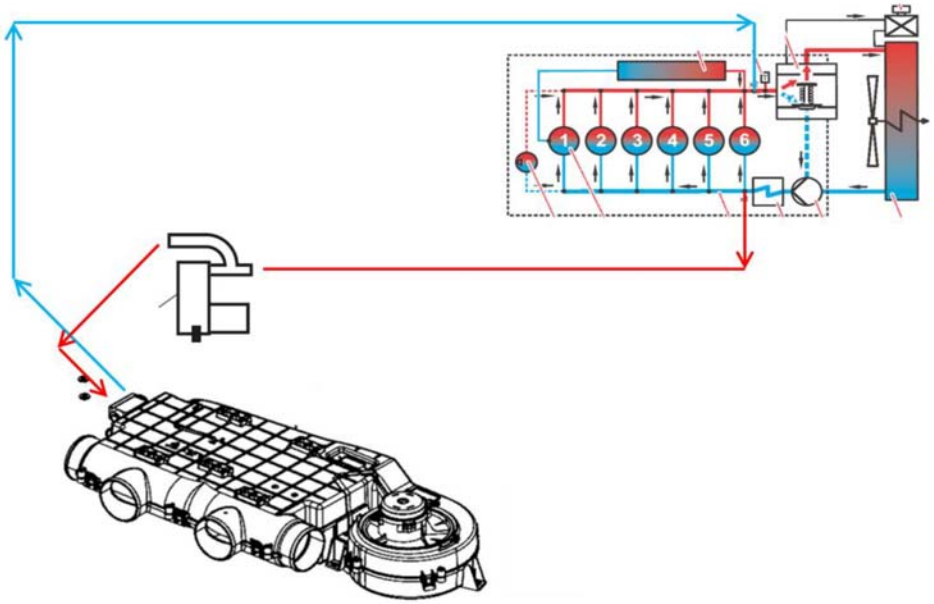
4 - Climate Control

Temperature Regulation

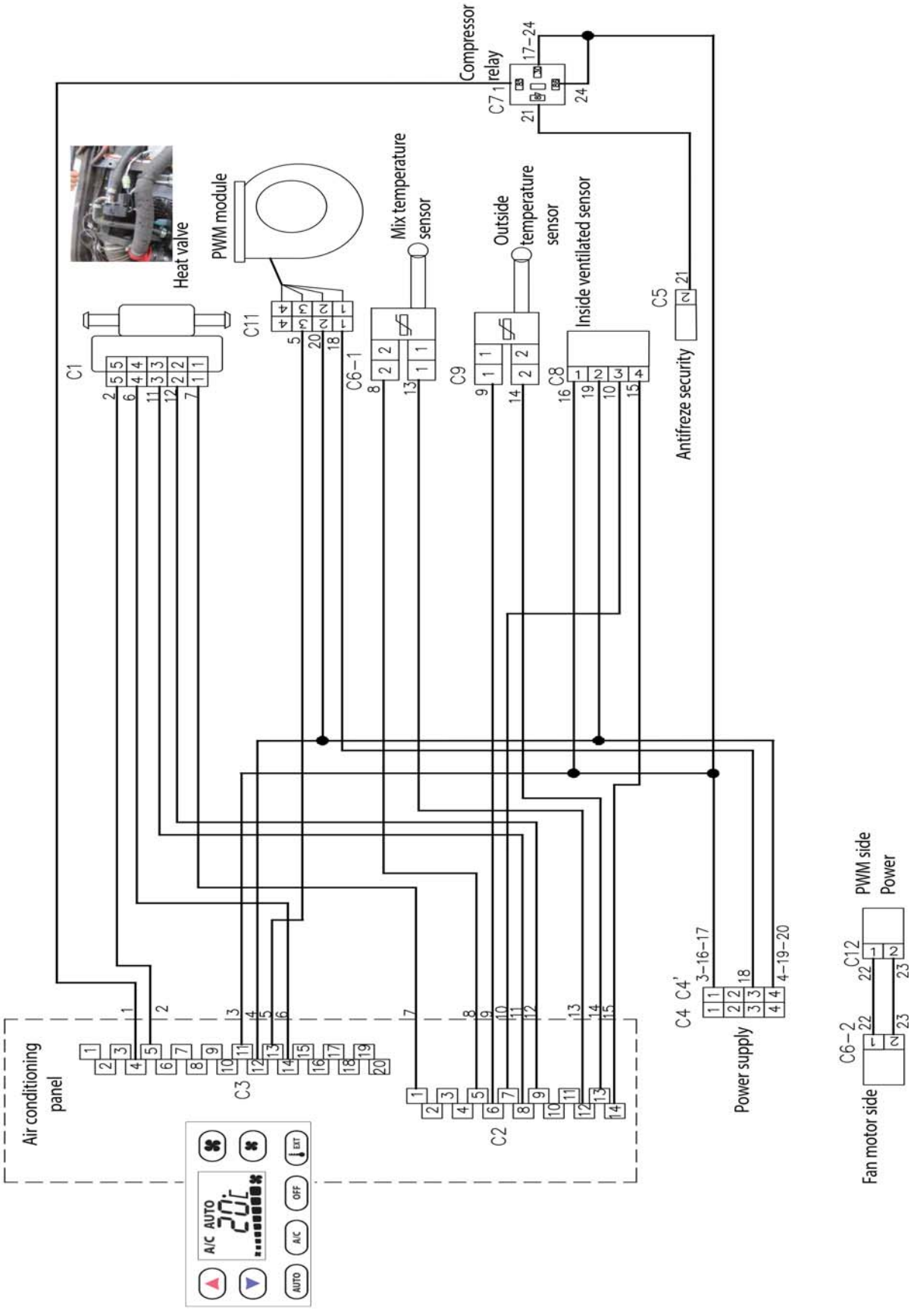
Electrical Components



Cooling Circuit

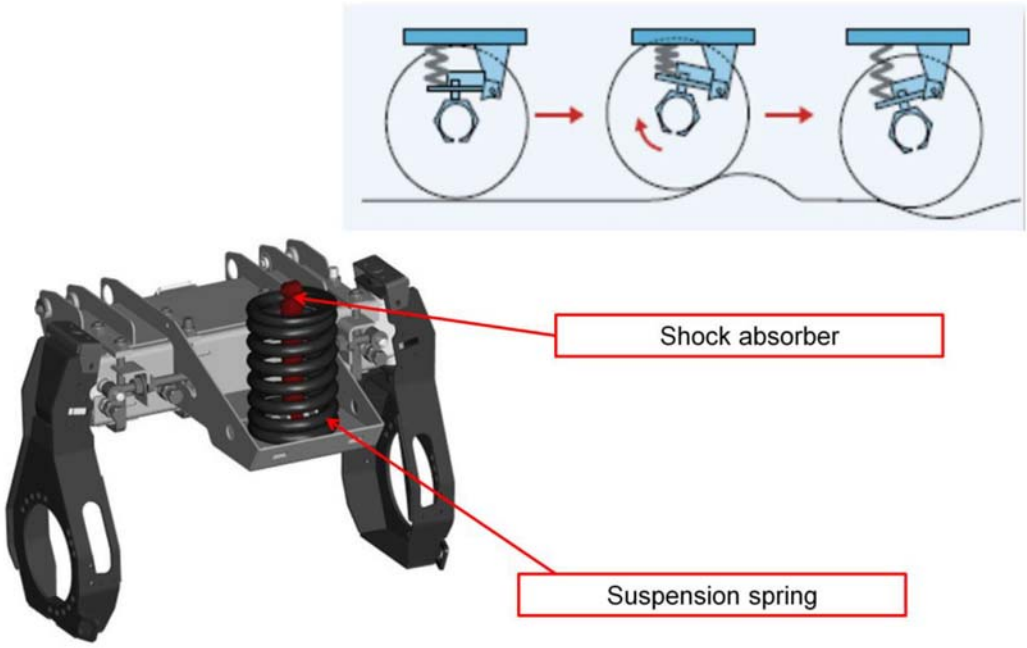


Wiring Diagram

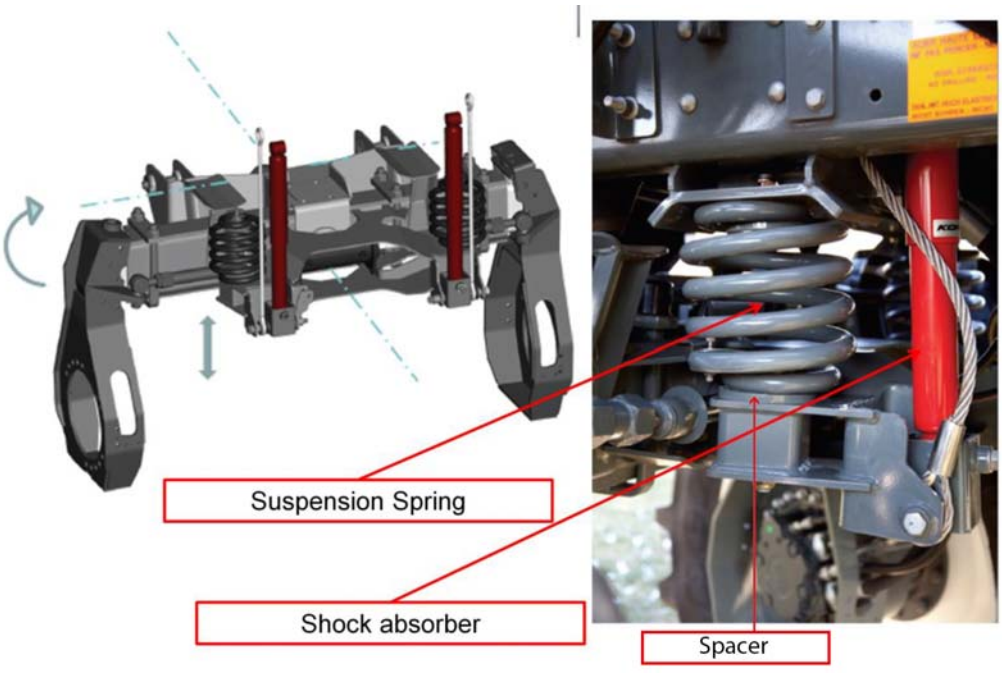


Suspension

Rear Suspension



Front Suspension

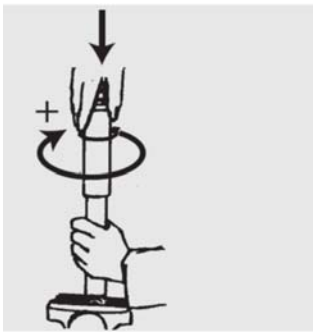


The spacer is on the left side only due to the weight of the platform.

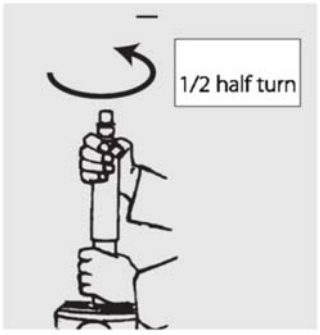
Suspension Adjustment

Shock absorbers must be adjusted before installing them on the machine

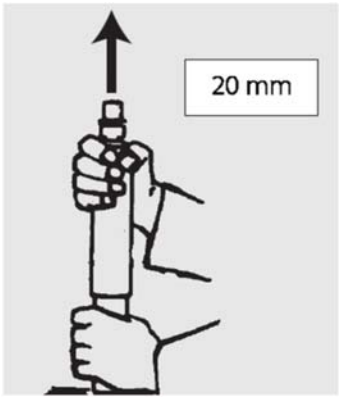
1. Compress the shock absorber and turn it clockwise for full suspension.



2. Turn the shock absorbers counter clockwise to obtain the factory setting.



3. Pull the shock absorber apart 20mm to free the setting part.

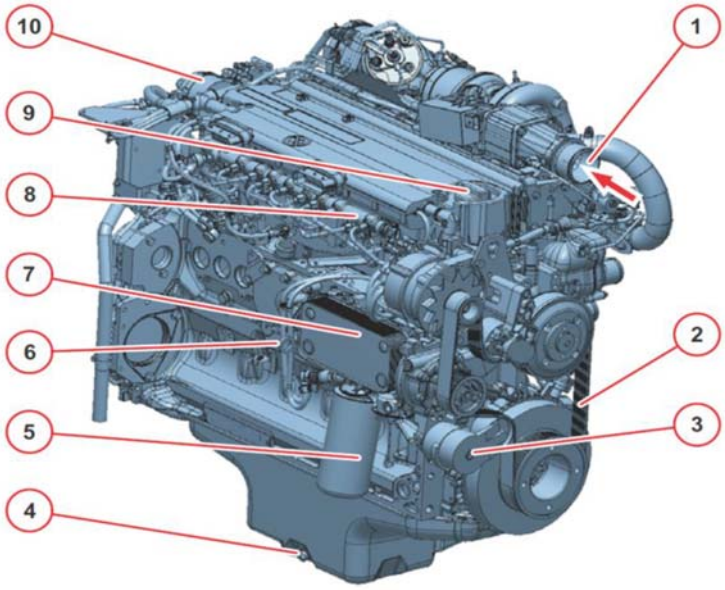


4. Install the shock absorber on the machine.

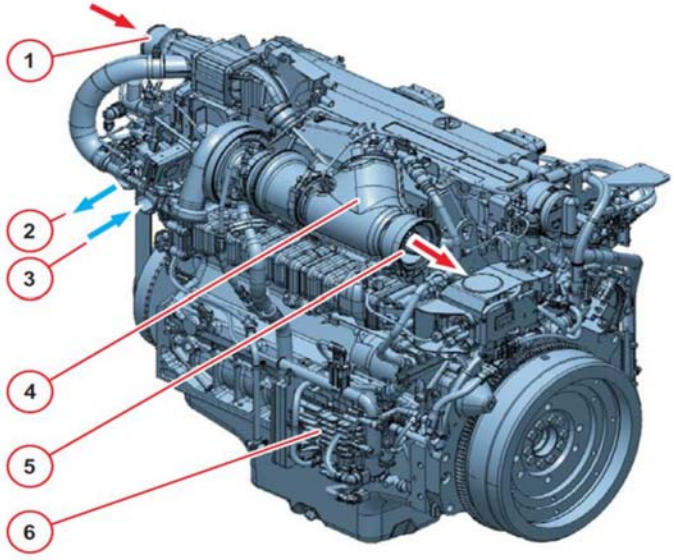
TCD 6.1 L6

Components

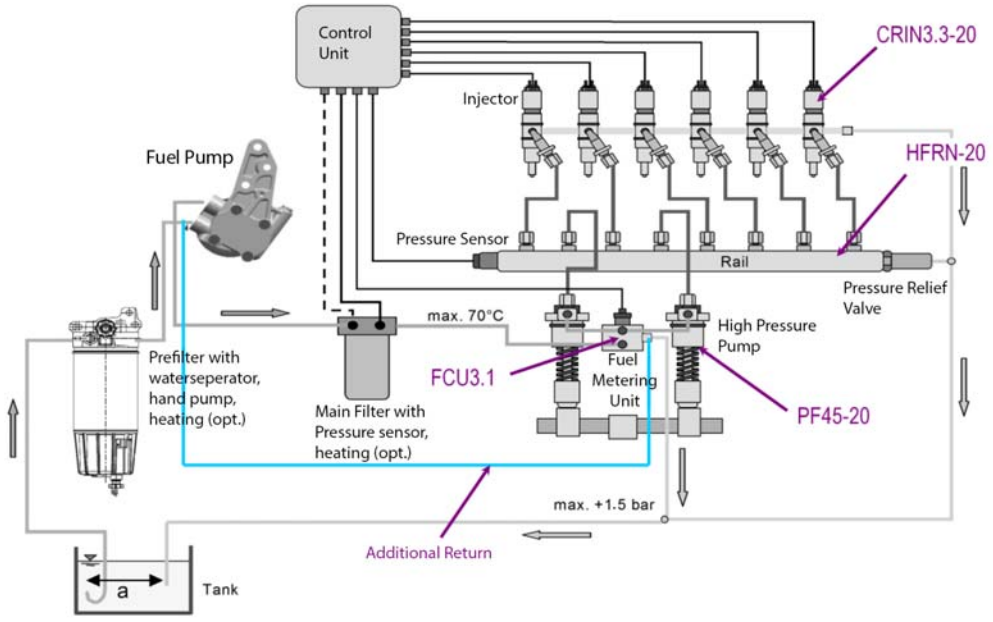
1. Combustion air inlet
2. V-rib belt
3. Tension pulley
4. Lubricating oil drain plug
5. Lubricating oil replacement filter
6. Lubricating oil dipstick
7. Lubricating oil cooler
8. Rail
9. Lubricating oil filling
10. Crankcase breather



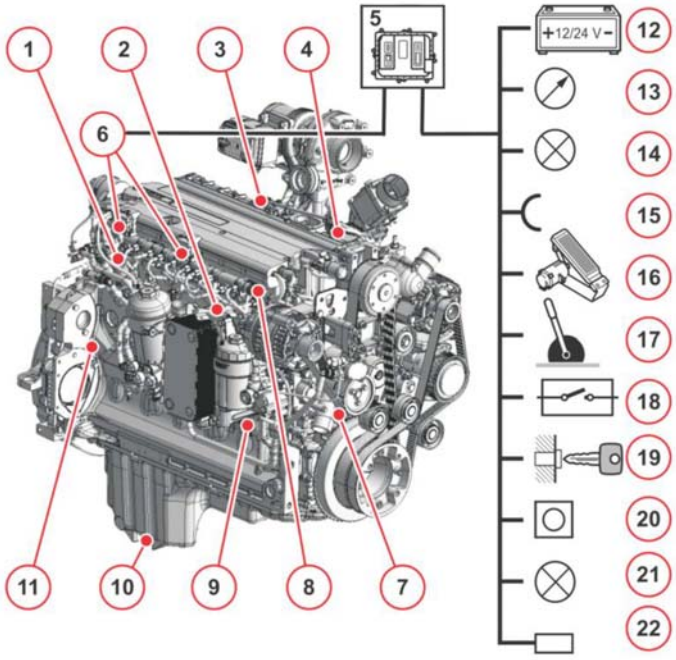
1. Combustion air inlet
2. Coolant outlet
3. Coolant inlet
4. Burner
5. Exhaust outlet
6. Air compressor



Rail



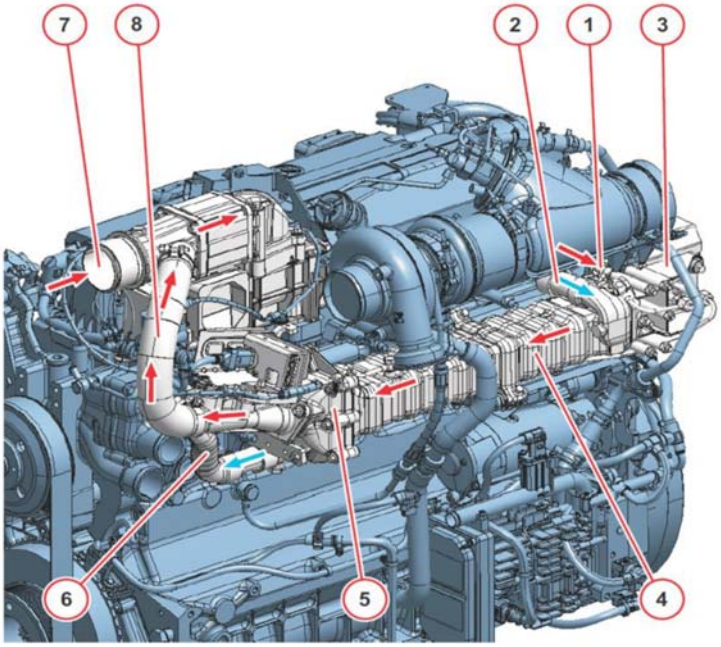
Sensors



1. Fuel transducer
2. Coolant temperature transmitter
3. Charge air pressure transmitter, charge air temperature transmitter TCD 6.1 L6
4. Charge air pressure transmitter, charge air temperature transmitter TCD 4.1 L4
5. Engine control unit
6. Central plug (for engine control)
7. Speed transmitter via crankshaft
8. Rail pressure sensor
9. Lubricating oil pressure transmitter
10. Lubricating oil level transmitter (optional)
11. Speed transmitter via camshaft
12. Power supply (battery)
13. Multifunction displays
14. Signal outputs (e.g. lights, speed, engine operation, etc.)
15. Inputs (e.g. override button
16. Accelerator
17. Hand throttle
18. Optional function selector switch (e.g. for P degree, type of controls, maximum curve, fixed speeds, etc.)
19. Detachable key switch Start/Stop
20. Diagnosis button
21. Error light
22. Diagnostic interface/CAN bus

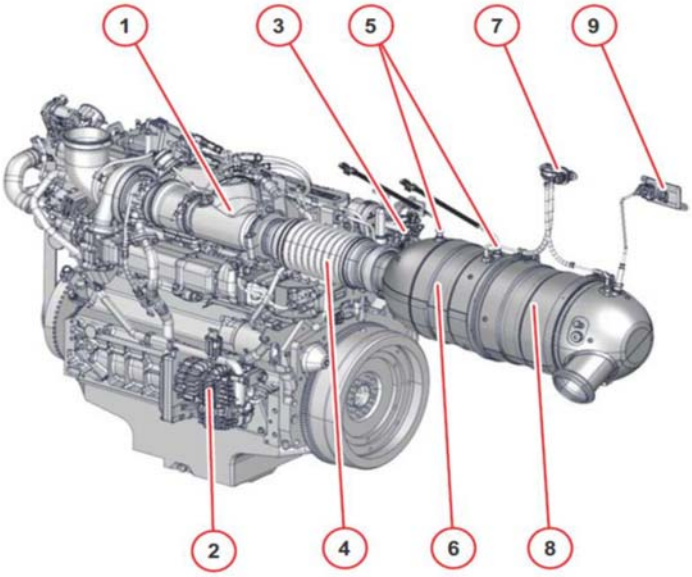
External EGR System

1. Exhaust gas partial flow (uncooled)
2. Coolant line to the EGR cooler
3. Actuator (electrically actuated)
4. Exhaust return cooler
5. Check valve
6. Coolant return to thermostat
7. Combustion air inlet
8. Exhaust gas partial flow (cooled)

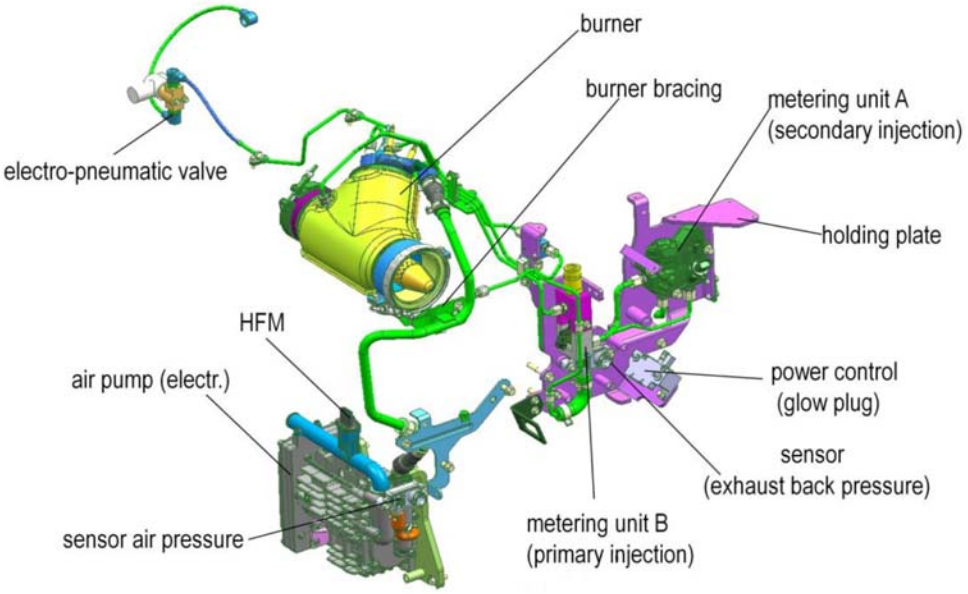


DPF (Diesel Particle Filter)

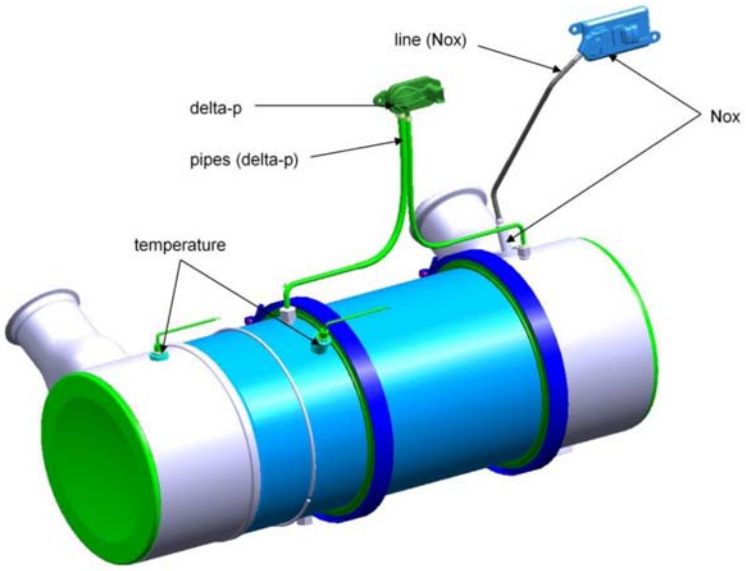
1. Burner
2. Air compressor
3. Fuel metering unit
4. Flexible pipe
5. Exhaust temperature sensor
6. Diesel oxidation catalytic converter
7. Differential pressure sensor
8. Diesel particle filter
9. NO_x sensor



Auxiliary Equipment Mounted on the Engine for Closed Filter with Burner

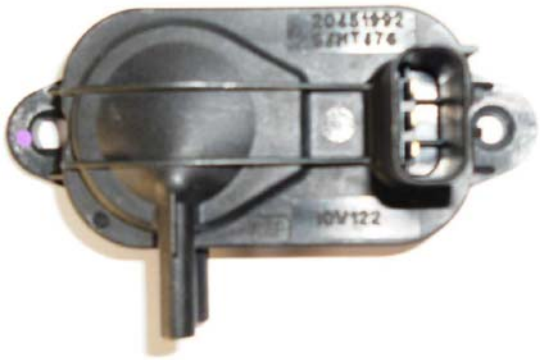


DPF Sensors



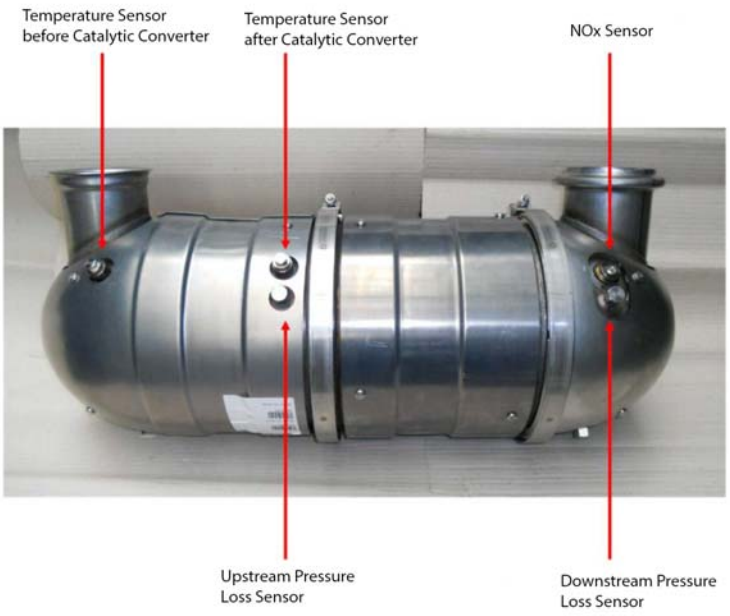
NOx Sensor

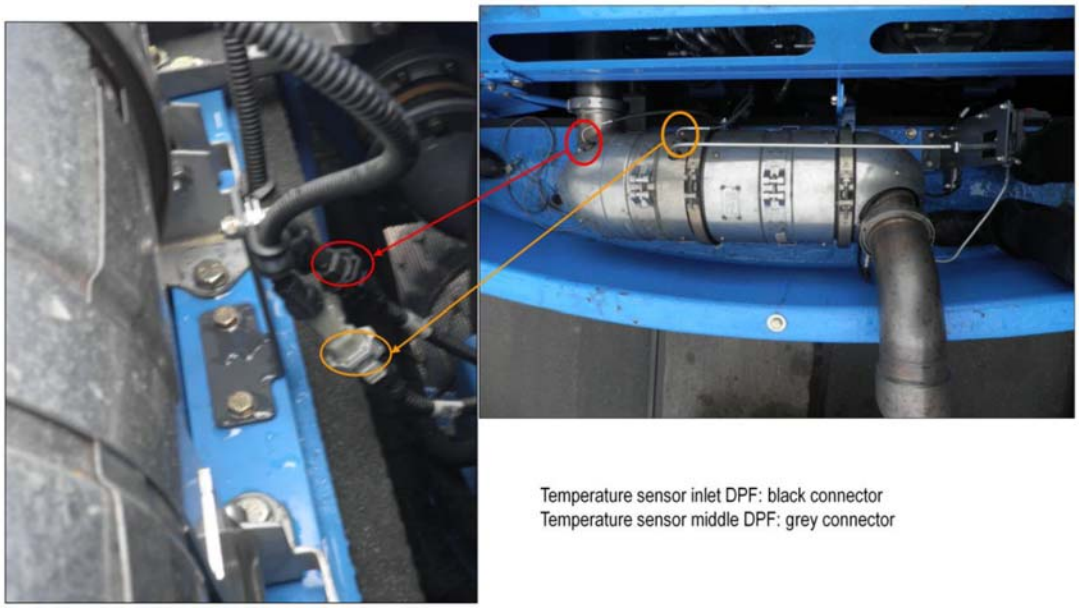
Pressure Drop Sensor



Temperature Sensors

DPF Sensor Location

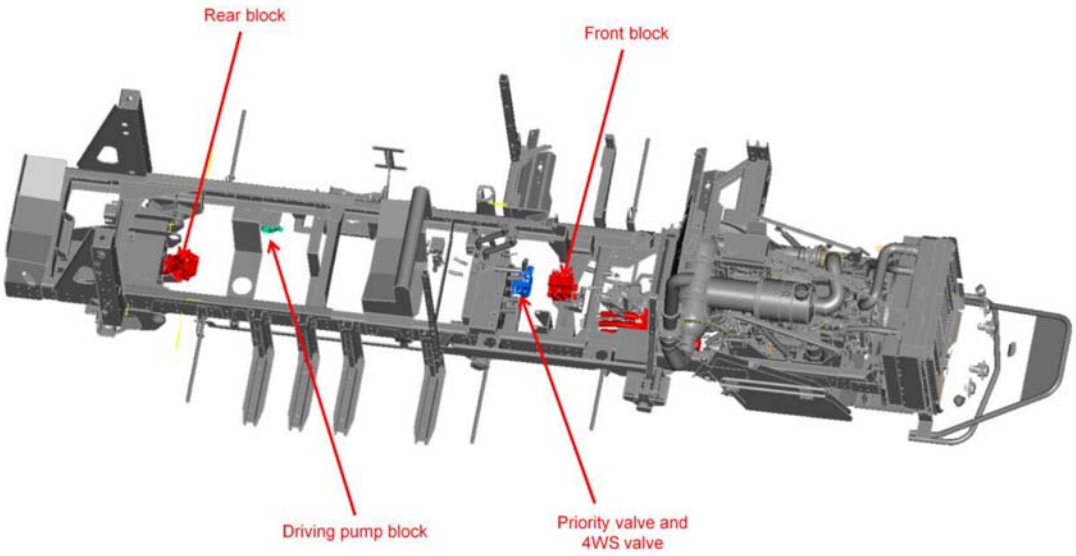




Temperature sensor inlet DPF: black connector
Temperature sensor middle DPF: grey connector

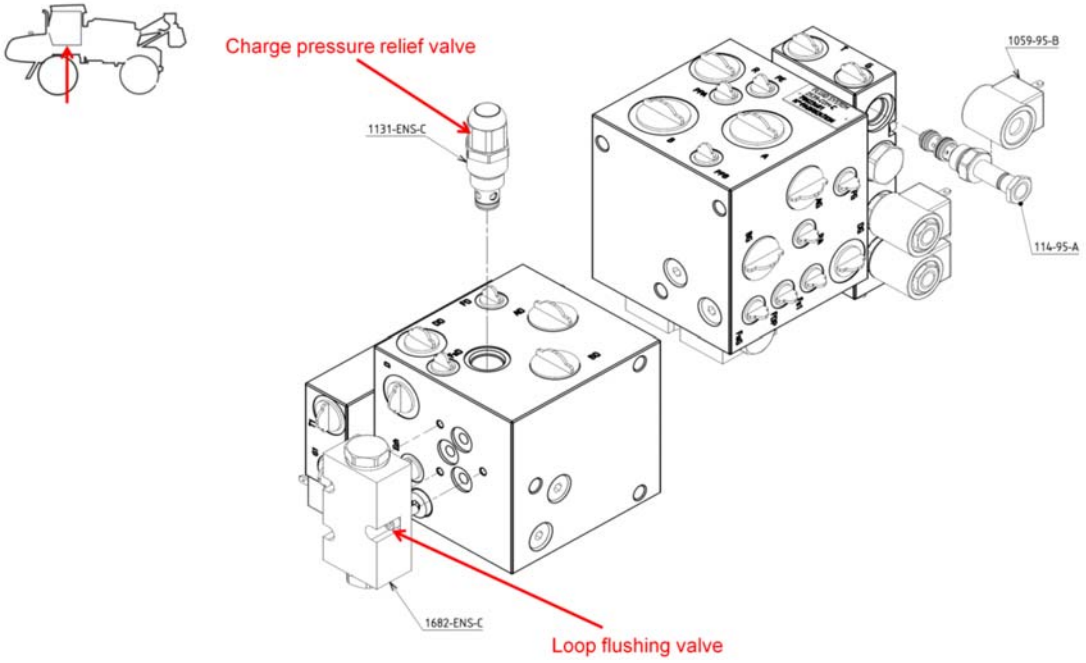
Blocks

Locations

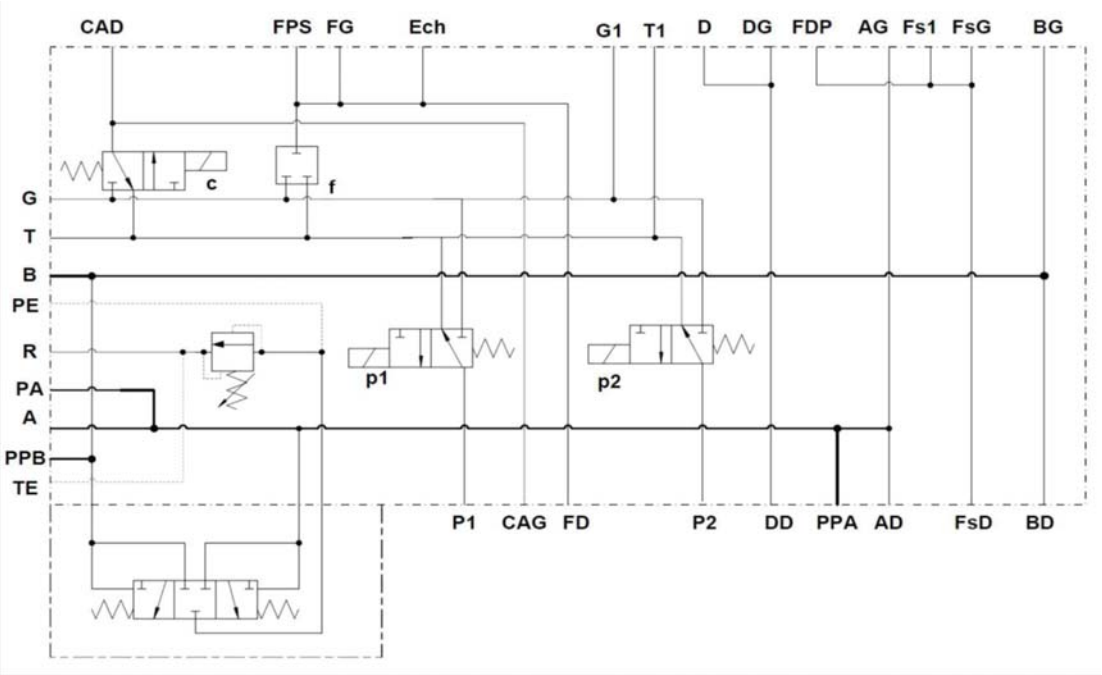


Front Block

Components



Diagram



CAD: Front displacement, Y front right wheel motors

FPS: Parking brake, FPS Rear block

FD: Parking brake front right, X front right wheel motors

Ech: Ladder, Ladder cylinder (big side)

D: Drain, back to tank

DD: Right drain, J front right wheel motor

FDP: Dynamic brake, F brake pedal

AD: HP front right, R front right wheel motor

FS1: Brake sensor 2320psi (160 bar)

FSD: Dynamic brake right, XD front right wheel motor

BD: HP rear front right wheel motor, L front right wheel motor

G1: Charge, G on rear block

T1: Return, T on rear block

BG: HP rear front left wheel motor, R front left wheel motor

FSG: Dynamic brake front left wheel motor, XD front left wheel motor

AG: HP front left wheel motor, L front left wheel motor

DG: Front left wheel motor drain, J front left wheel motor

P2: Footbridge out, footbridge cylinder (big side)

FG: Parking brake front left wheel motor, X front left wheel motor

CAG: Front displacement, Y front left wheel motor

P1: Foot bridge in, footbridge cylinder (small side)

A: Front HP, A2 differential lock block

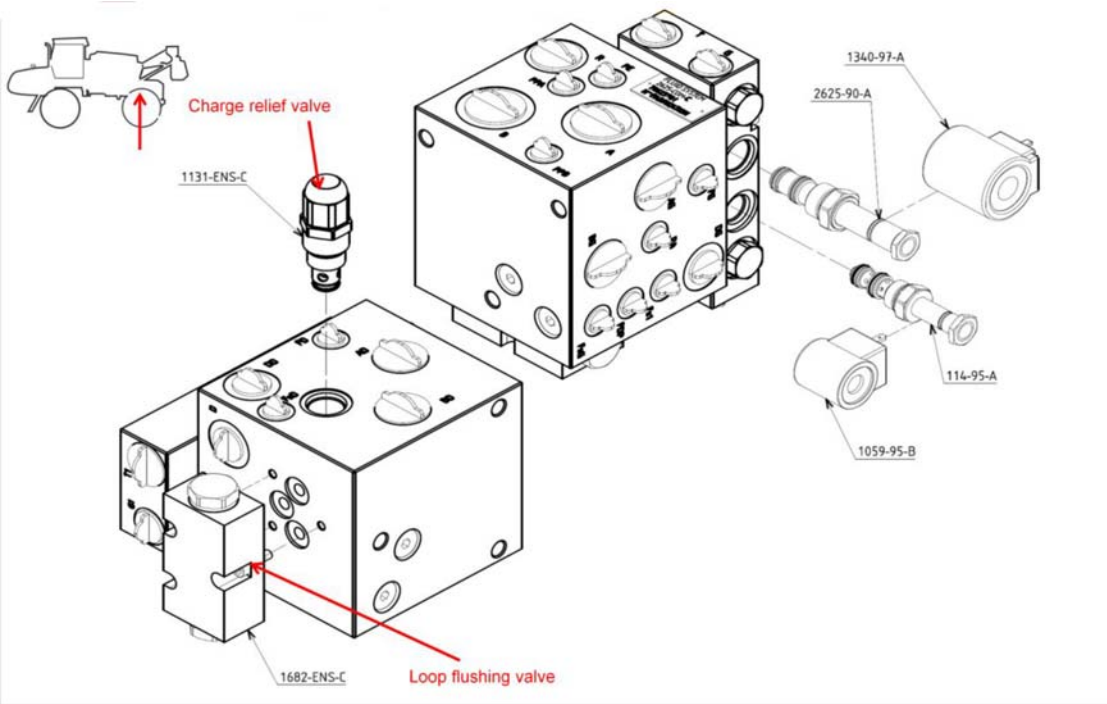
R: Loop flushing return, tank

B: HP rear, B2 differential lock block

T: Return, tank

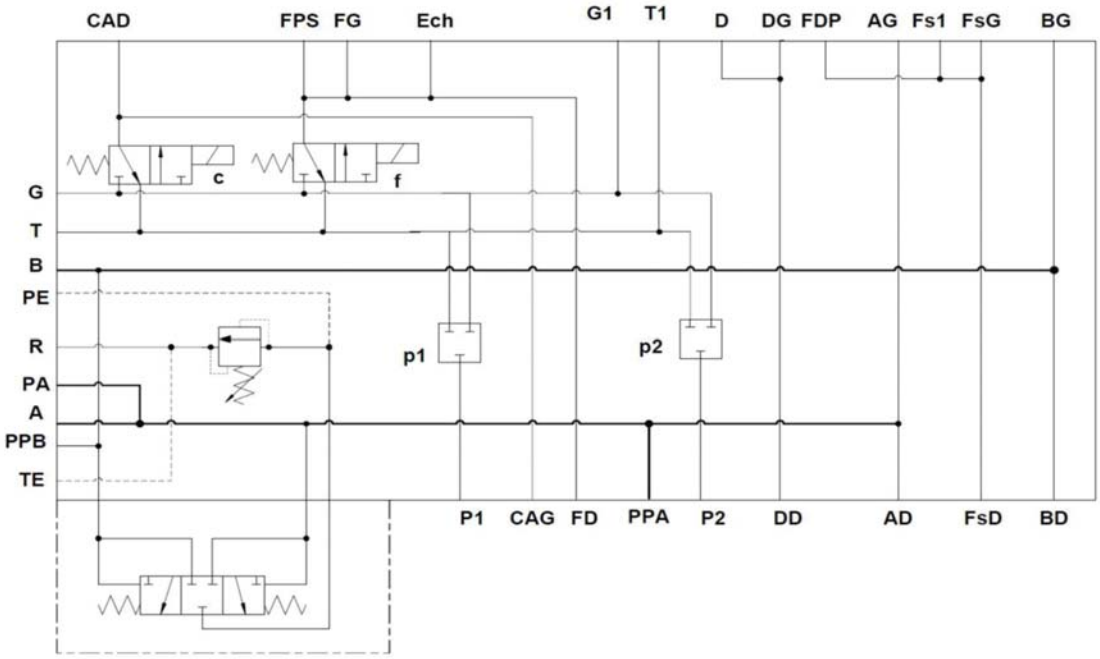
Rear Block

Components



7 - Hydraulics

Diagram



CAD: Rear right displacement, Y rear right wheel motor

FPS: Parking brake, FPS front block

FD: Parking brake rear right wheel motor, X rear right wheel motor

D: Drain, tank

DD: Drain rear right wheel motor, J rear right wheel motor

FDP: Return, tank

AD: Forward HP rear right wheel motor, R rear right wheel motor

FSD: Dynamic brake rear right wheel motor, XD rear right wheel motor (N/U)

BD: Reverse HP rear right wheel motor, L rear right wheel motor

BG: Reverse HP rear left wheel motor, R rear left wheel motor

FSG: Dynamic brake rear left wheel motor, XD rear left wheel motor (N/U)

AG: Forward HP rear left wheel motor, L rear left wheel motor

DG: Drain rear left wheel motor, J rear left wheel motor

PPA: Measure port forward HP

FG: Parking brake rear left wheel motor, X rear left wheel motor

CAG: Displacement rear left wheel motor, Y rear left wheel motor

TE: Loop flushing temperature

PPB: Measure point reverse HP

A: Forward HP, A1 differential lock block

PA: 8702psi (600 bar) sensor

R: Return, hydraulic cooler

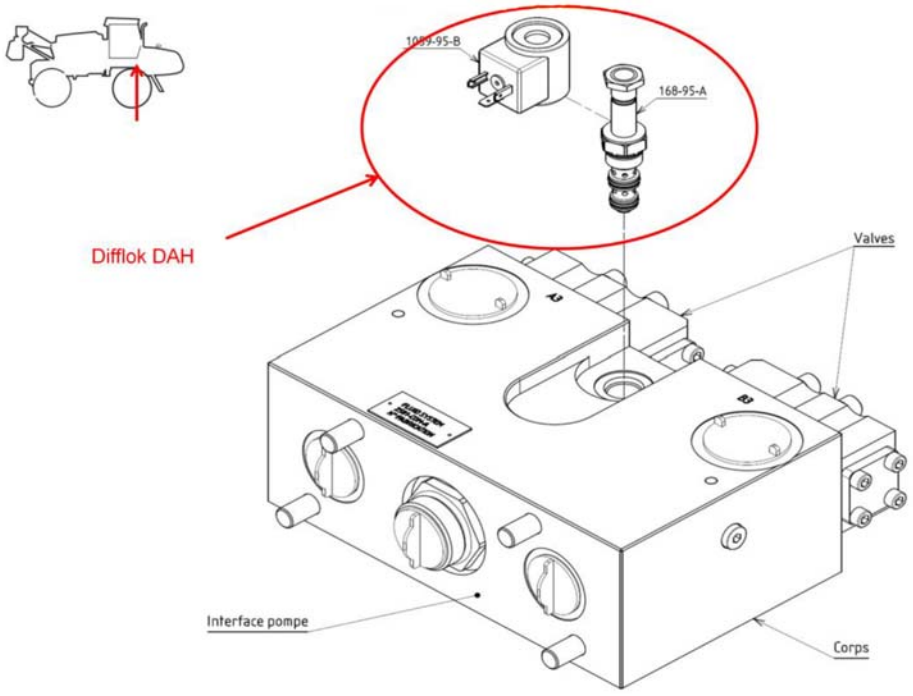
PE: Measure point loop flushing

T: Return, T1 front block

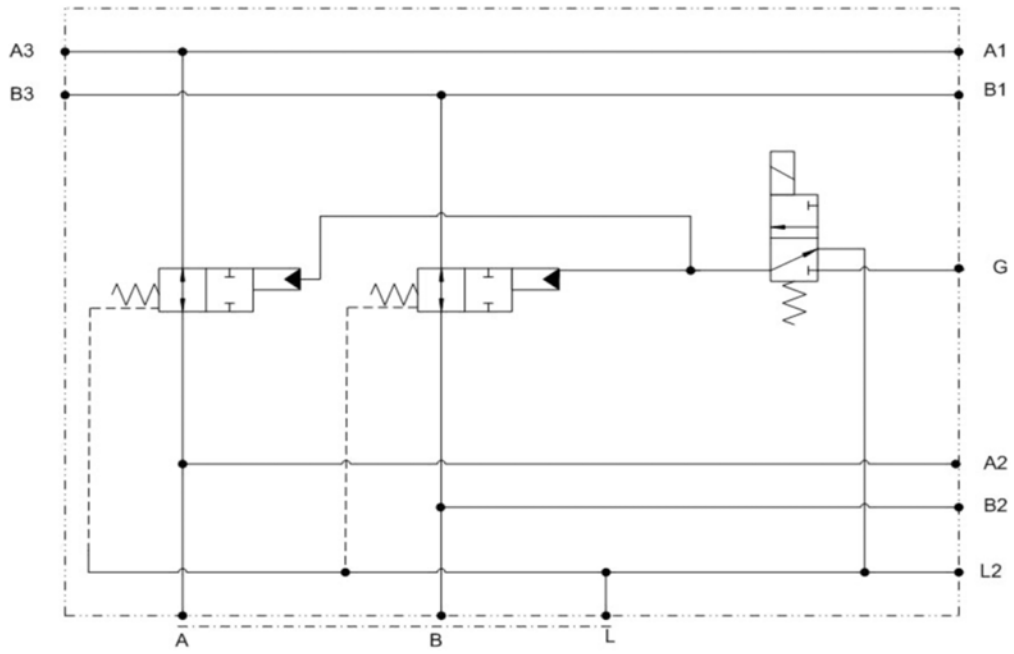
G: Charge, G1 front block

Differential Lock Block

Components



Diagram



A1: Forward HP rear axle, A (rear block)

B1: Reverse HP rear axle, B (rear block)

G: Charge

A2: Forward HP front axle, A (front block)

B2: Reverse HP front axle, B (front block)

L2: Suction front axle pump, suction filter

L: Suction front axle pump, front axle H1pump

B: Reverse HP, B (H1 pump)

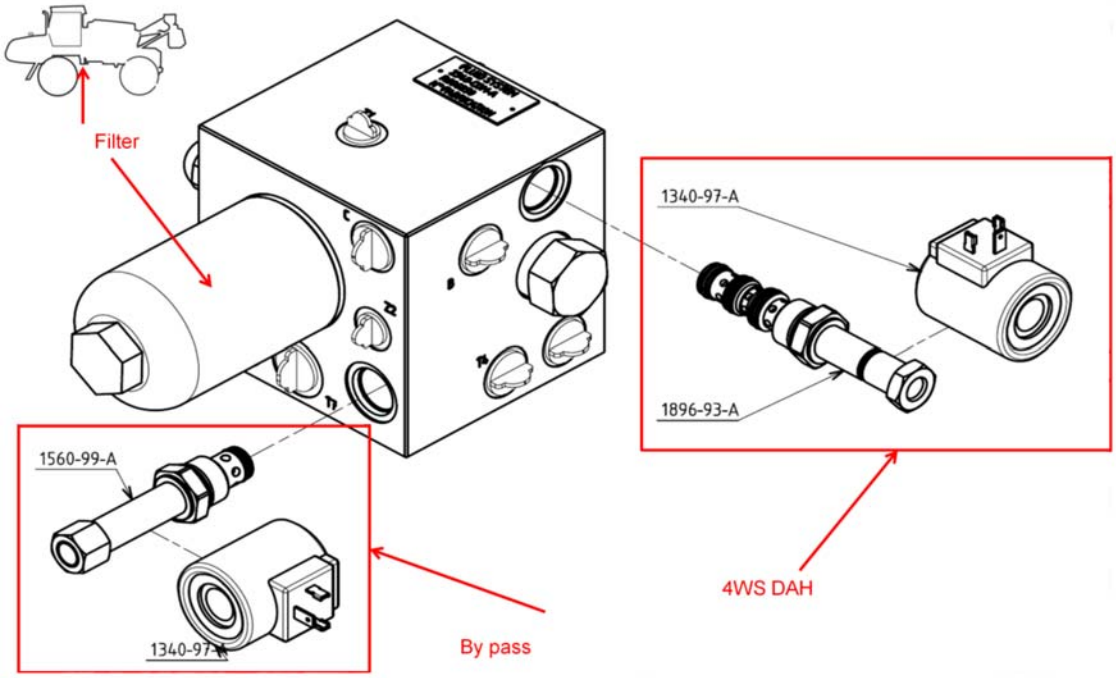
A: Forward HP, A (H1 pump)

B3: Reverse HP rear axle, H1pump rear axle

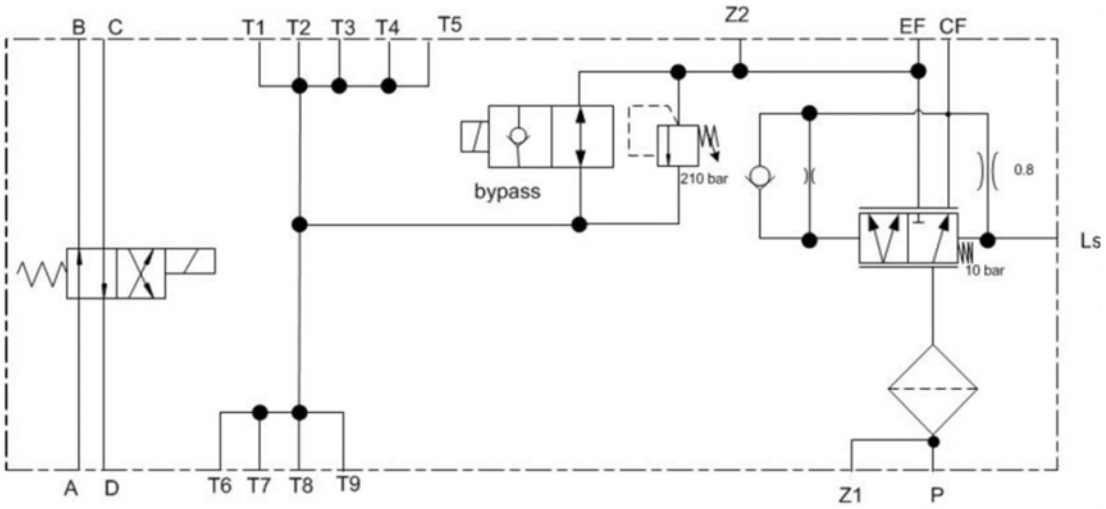
A3: Forward HP rear axle, H1 pump rear axle

Priority Valve, By-pass Block

Components



Diagram



A: 4-wheel steering

B: 4-wheel steering

C: 4-wheel steering

D: 4-wheel steering

P: Pressure from 17cc pump

Z1: Test port

EF: Excess Flow (boom feeding)

Z2: EF test port

CF: Constant flow (steering system feeding)

LS: Orbitrol signal

T1: Return

T2: Return

T3: Return

T4: Return

T5: Return

T6: Return

T7: Return

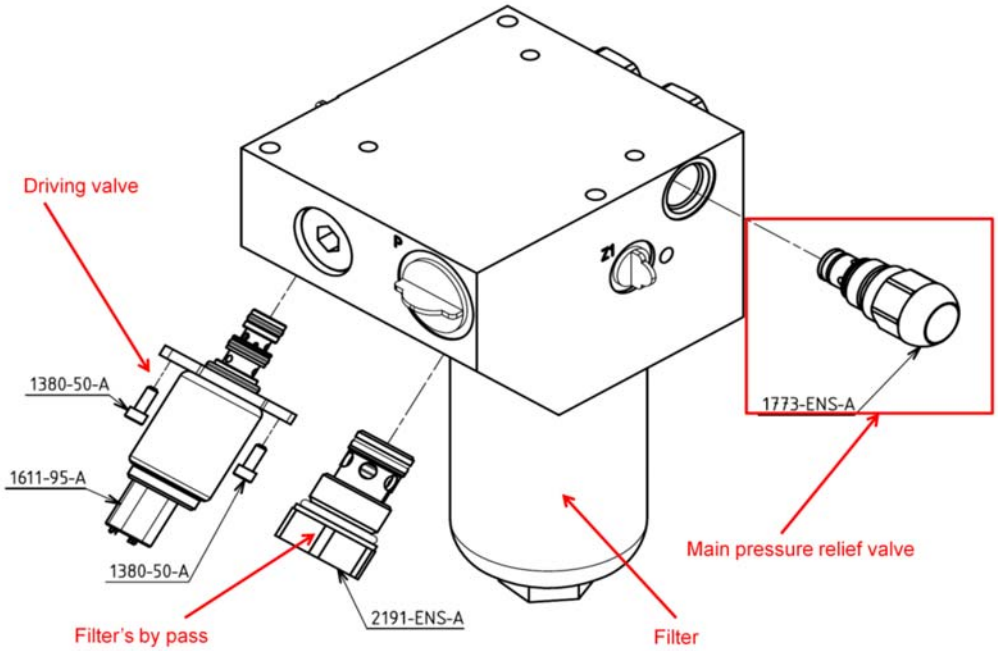
T8: Return

T9: Return

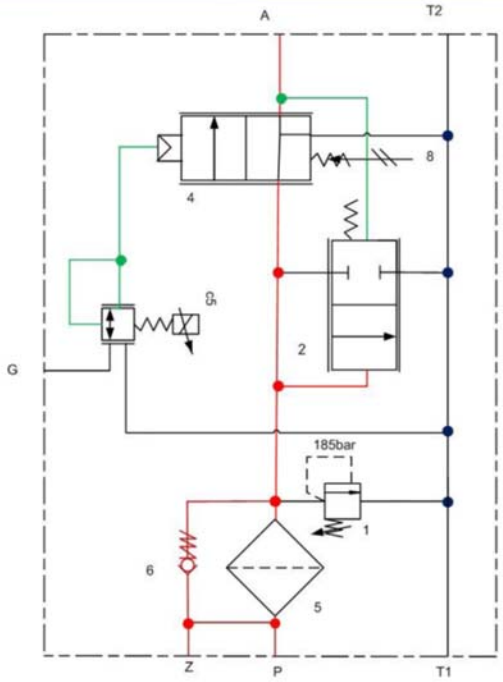
Pumps

Driving Pump

Components



Diagram



G: Charge pressure 435psi (30 bar)

P: Pressure from 38cc pump

Z: Test port (mini mesh)

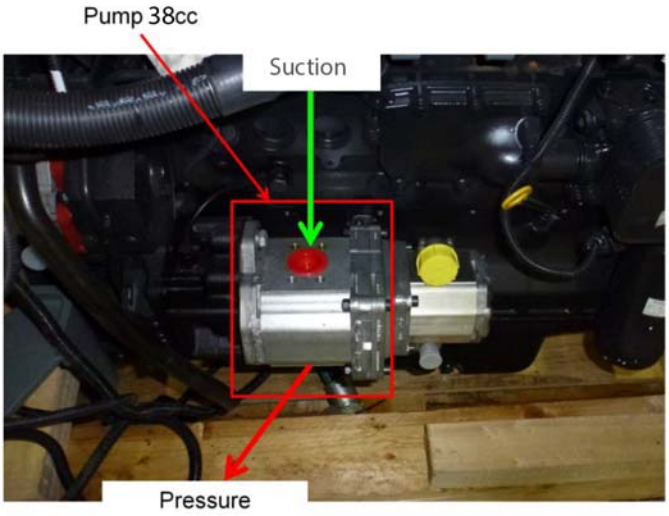
A: Spraying pump motor

T1: Return

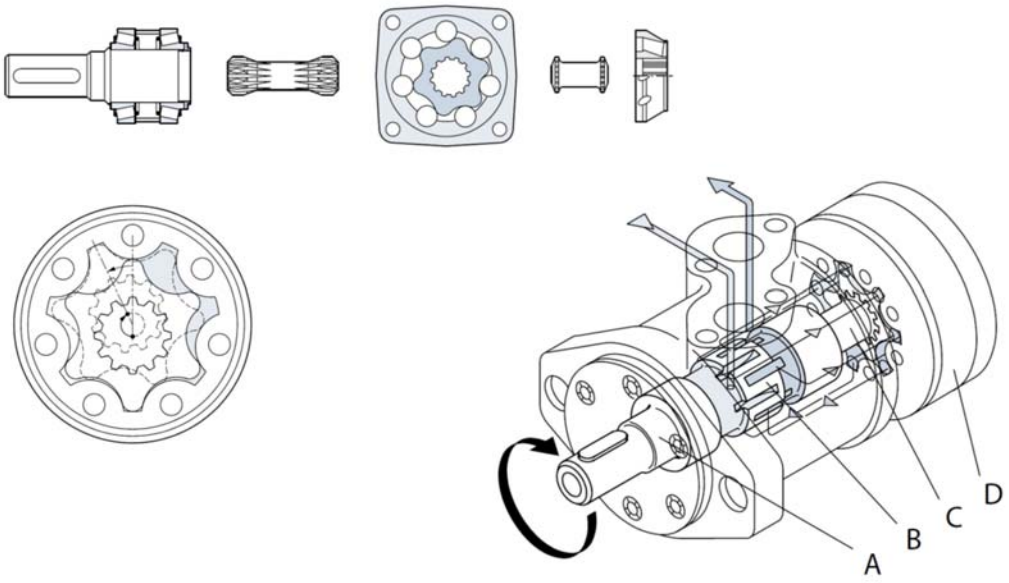
T2: Return

7 - Hydraulics

Hydraulic Pump



Spray Pump Hydraulic Motor

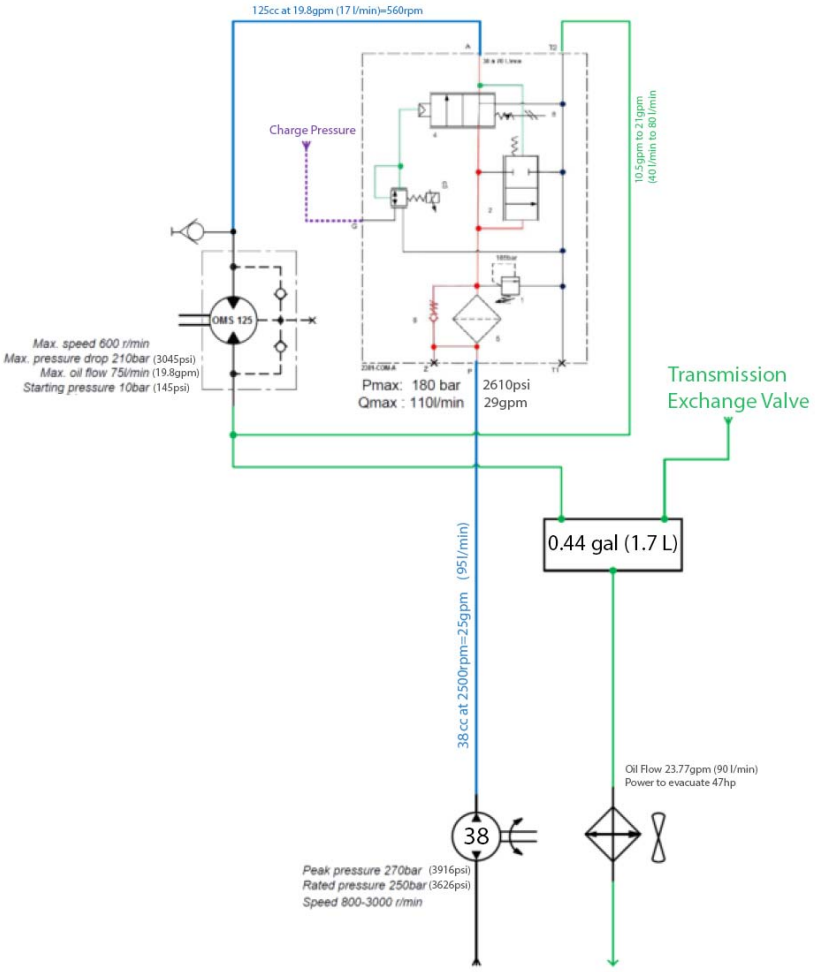


Type of motor: Gear

Displacement: 125cc

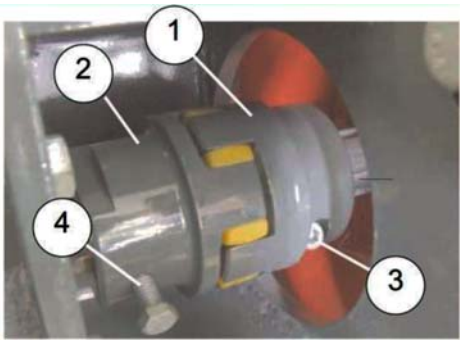
Output shaft: 32mm

Diagram

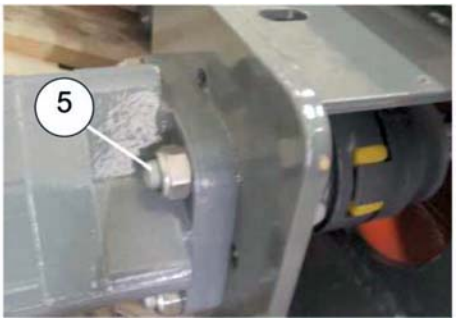


Coupling Assembly and Adjustment

- Place the coupling flange (1) on the splined shaft of the pump and the coupling flange (2) on the key-way shaft of the hydraulic motor shaft.



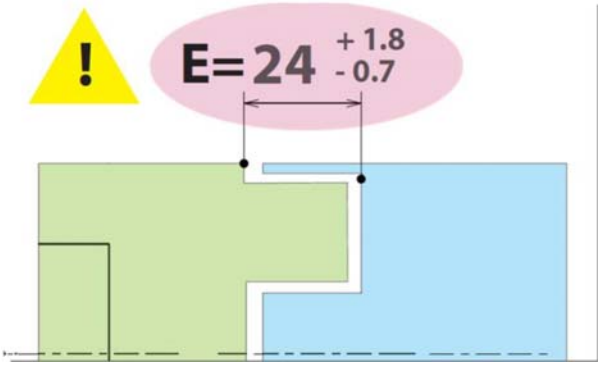
- Tighten screws (3) and (4).
- Reassemble the hydraulic motor by using the screws (5).



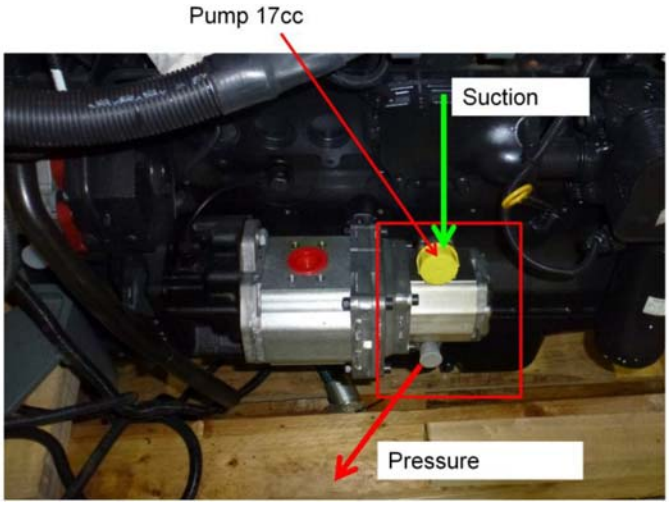
To ensure correct operation of the coupling, it is very important to observe the dimension E, in order to have an axial-mobility of the flexible coupling.

- Slide the coupling flange (2) in order to obtain dimension E and re-tighten screw (4)

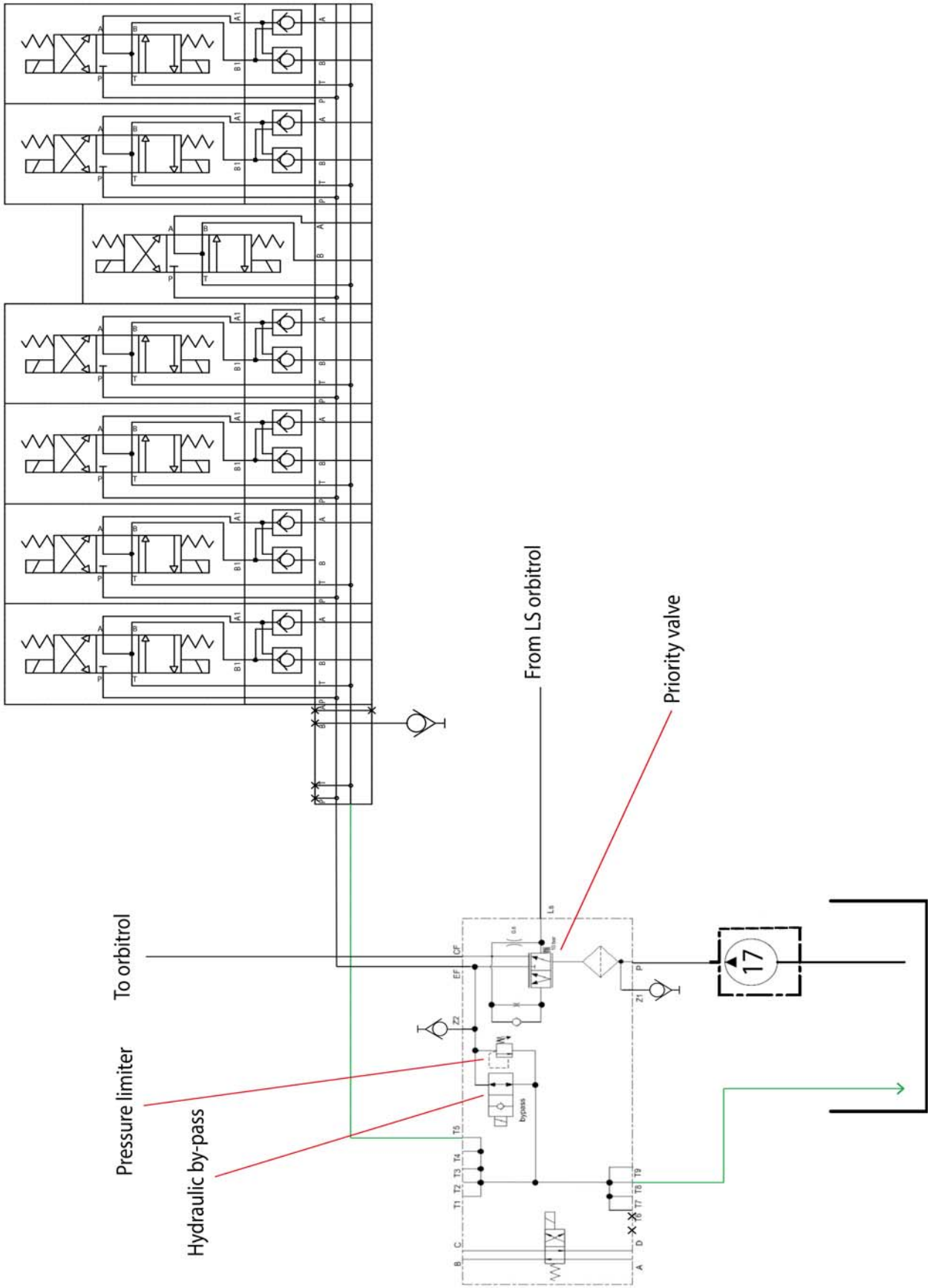
Dimension E=24mm (+1.8mm, -0.7mm)



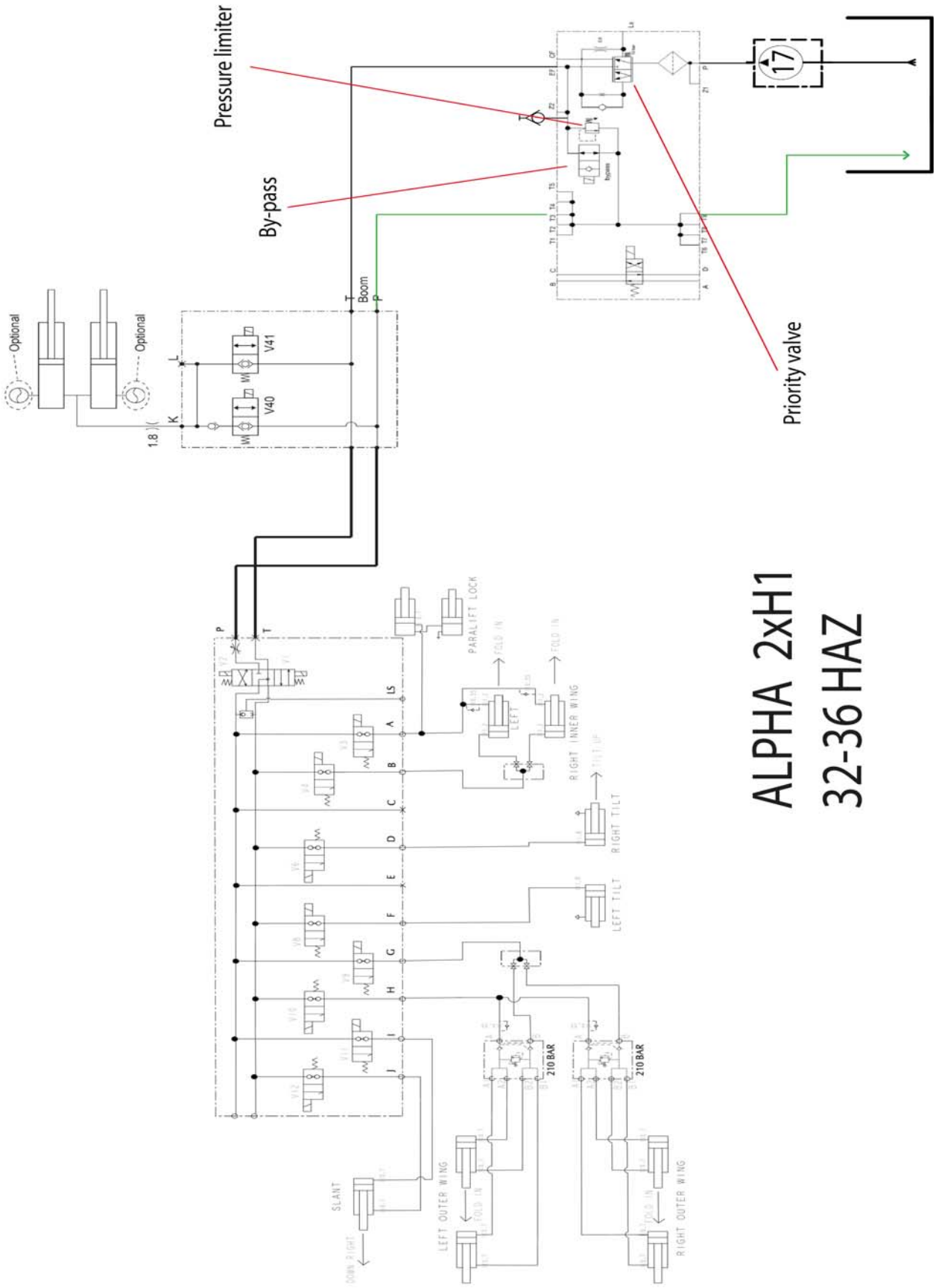
Steering/Boom Pump



Boom Driving Diagram (90' boom)



Boom Driving Diagram (118')



Hydrostatic Transmission

H1 Pump

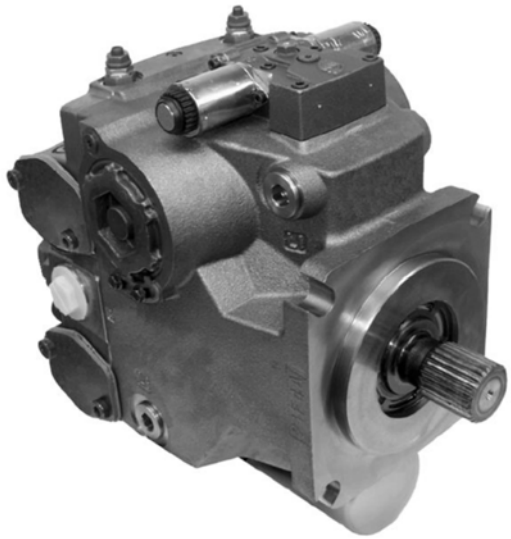
Pump Displacement: 115cc (used twice)

HP Pressure: 6962psi (480 bar) not adjustable

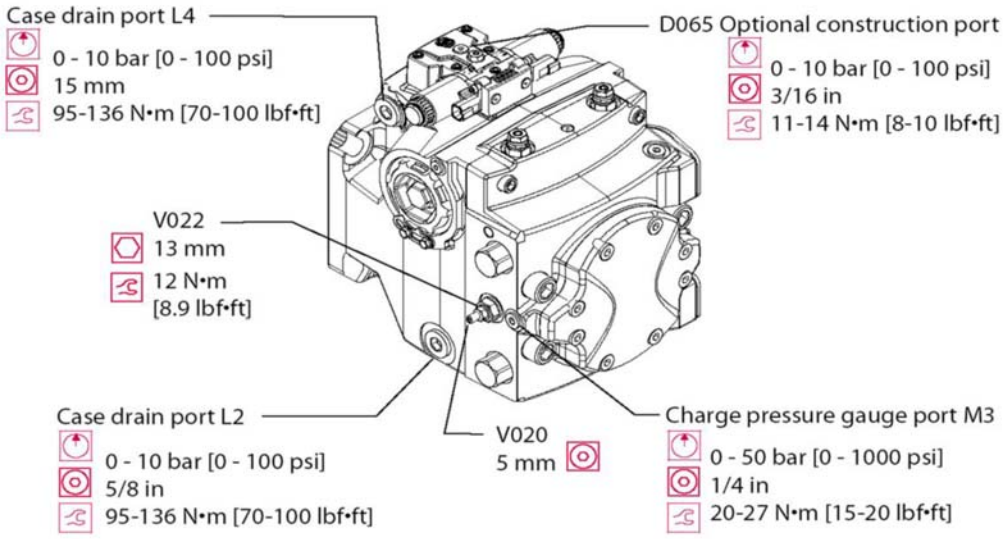
Flow Cancellation: 6526psi (450 bar)

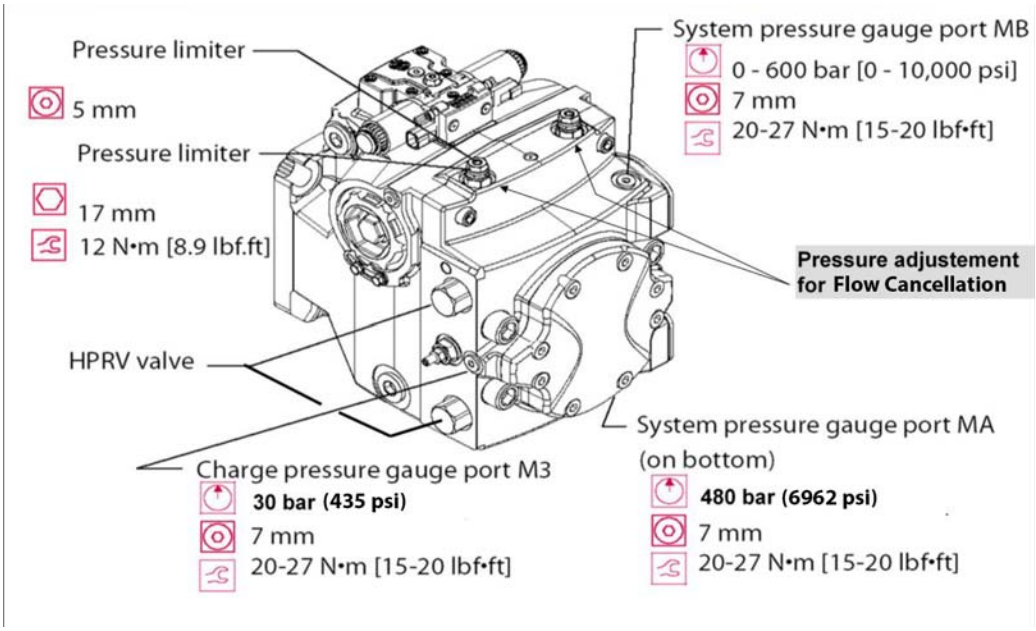
Charge Pump: 34cc

Charge Pressure: 406psi (28 bar)

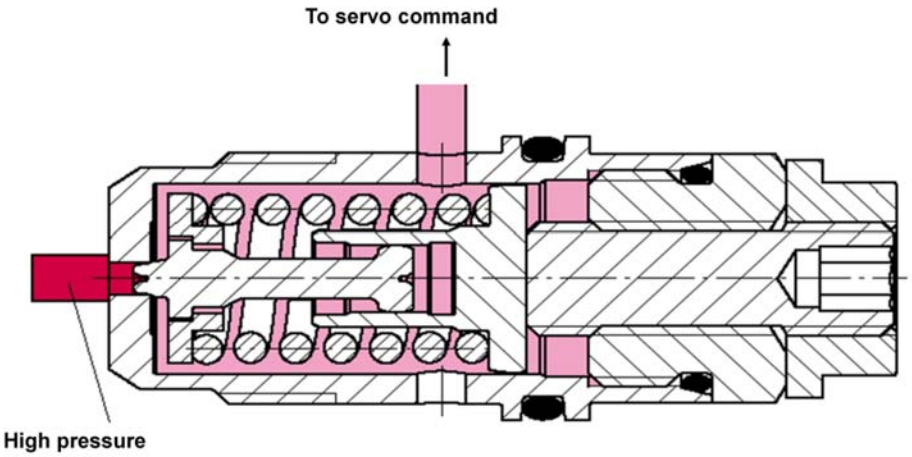


Ports





Flow Cancellation Valve

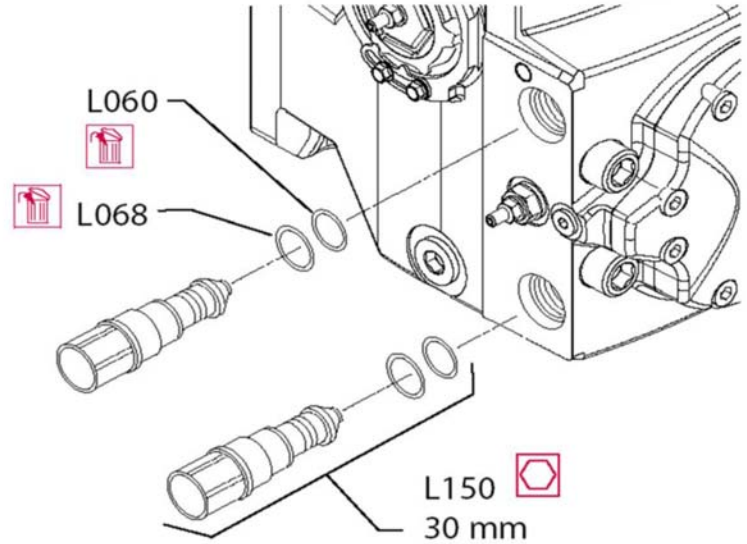


The factory setting for the flow cancellation valves is 6526psi (450 bar).

- These valves that protect the pump in case of overpressure.
- The valve sends pressure to the servo command to decrease the pump displacement.

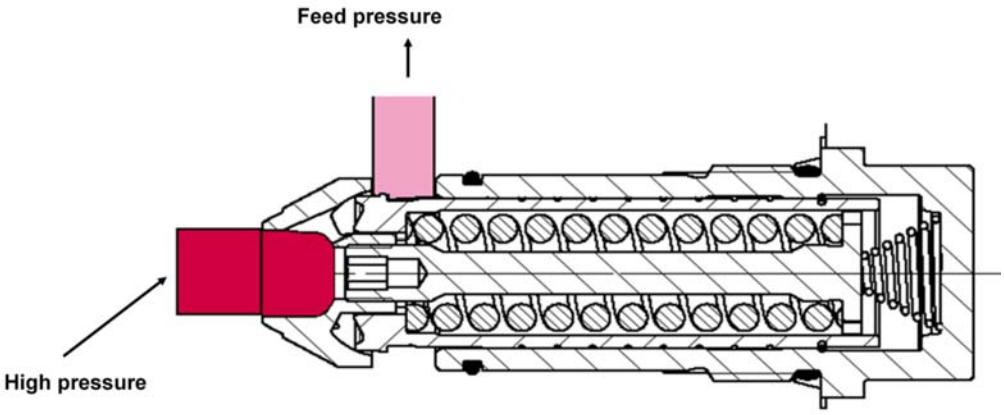
WARNING! You must never change the factory adjustment.

Relief Valve

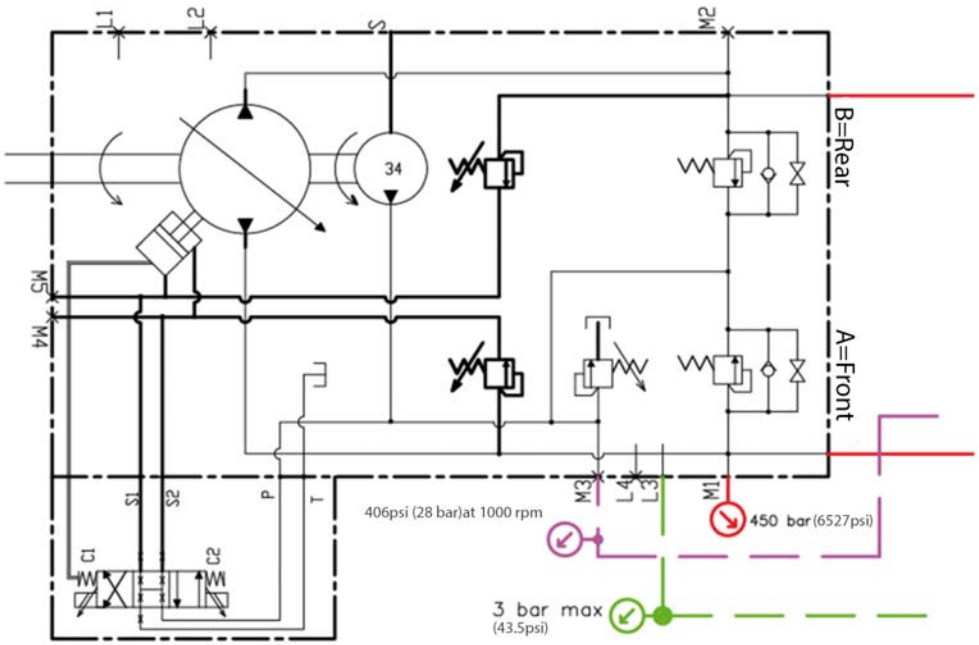


Relief valves aren't adjustable

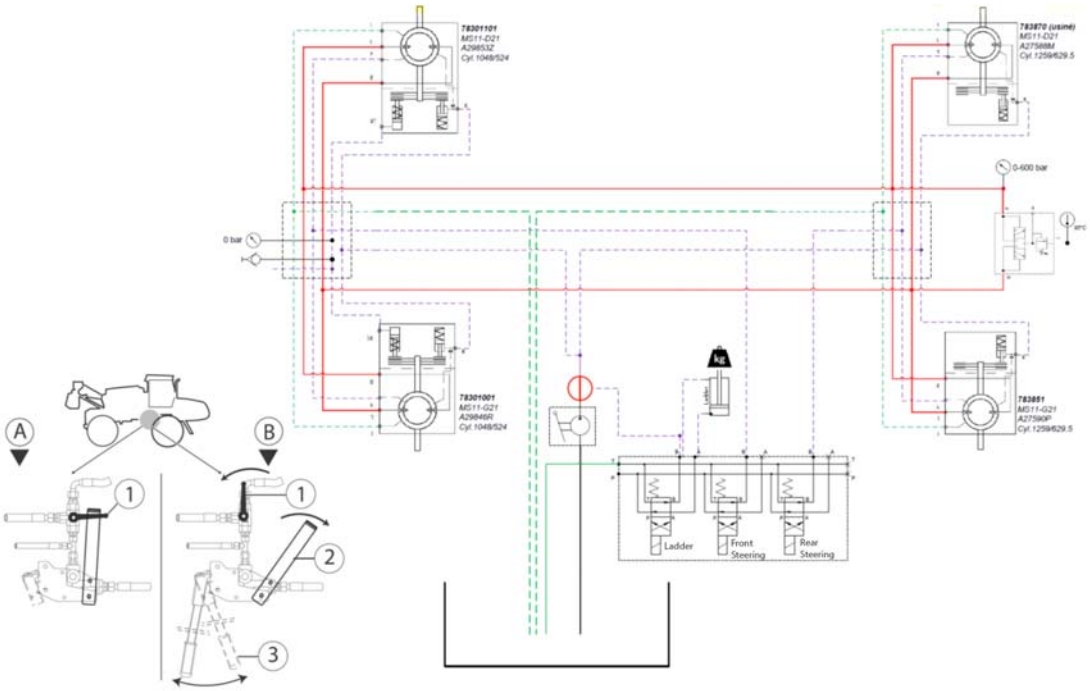
HP Valve



Diagram



Towing in case of Emergency



A. Ball Valve in normal running position

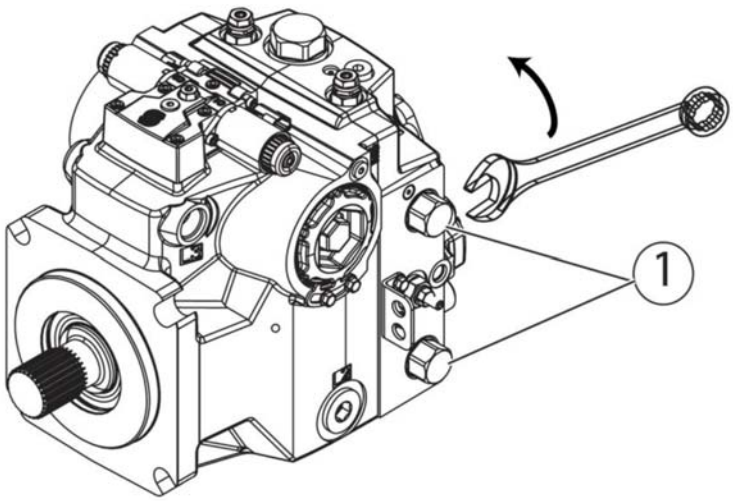
B. Ball valve in brake release position

ATTENTION! If you are on a hill, chock the machine before proceeding.

- Turn the security lock (2)
- Turn the ball valve (1) in the vertical position.
- Pump the hand pump (3) to totally release the brakes.

ATTENTION! In cases of needing to tow the machine, you must unscrew the HP valves to put the pump in loop mode.

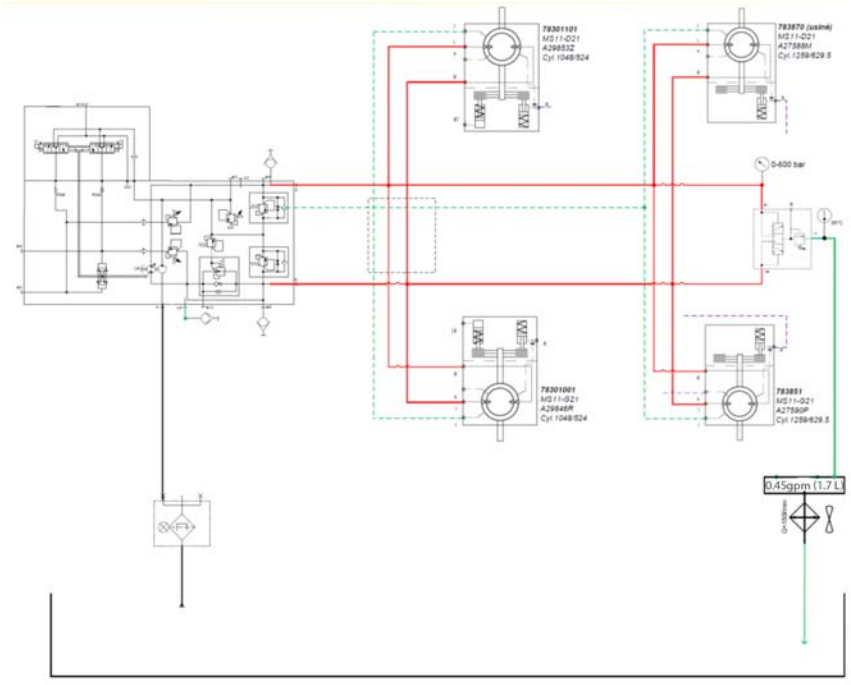
- Unscrew the HP valves (1) 3 revolutions to permit free flow into the pump.



Before restarting the machine make sure to screw the HP valves back in.

Loop Flushing

Diagram

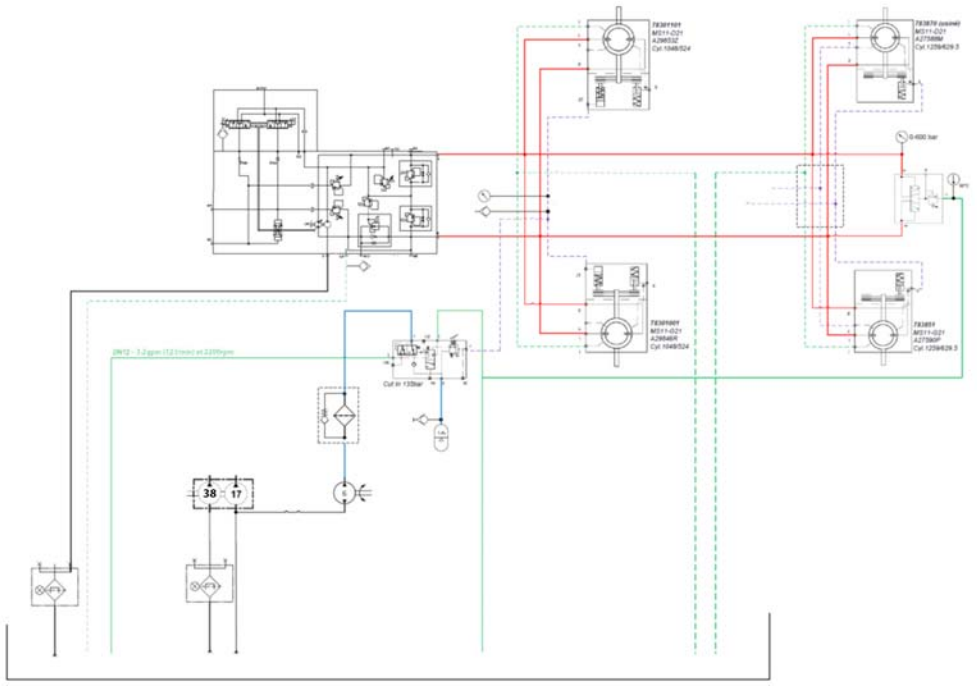


- Loop flushing is used for cooling the transmission oil.
- Loop flushing takes a small portion of the oil flow into the low pressure circuit and sends it into the tank.

Front Flow Valve	Rear Flow valve	RPM
8.45gpm (32 l/min) **Wheels Locked** **+ or - 0.53gpm (2 l/min)**	**8.45gpm (32 l/min)** **Wheels Locked** **+ or - 0.53gpm (2 l/min)**	**2000 rpm**

Dynamic Braking

Diagram



Steering

CanBus Double Displacement Orbitrol (OSPED)

Components

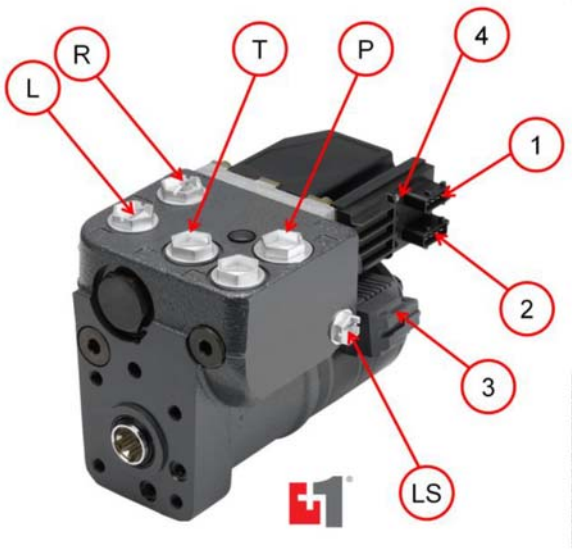
P: Pressure from priority valve

T: Return to tank

R: Right

L: Left

LS: Load sensing to priority valve



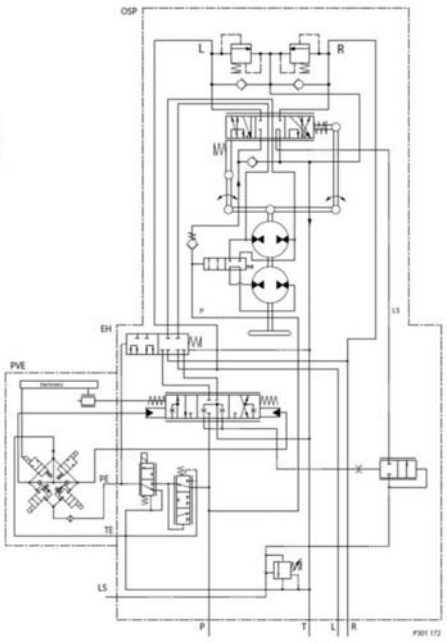
1: Dir V Plug, valve position sensor

2: Can V, valve driving (CAN message)

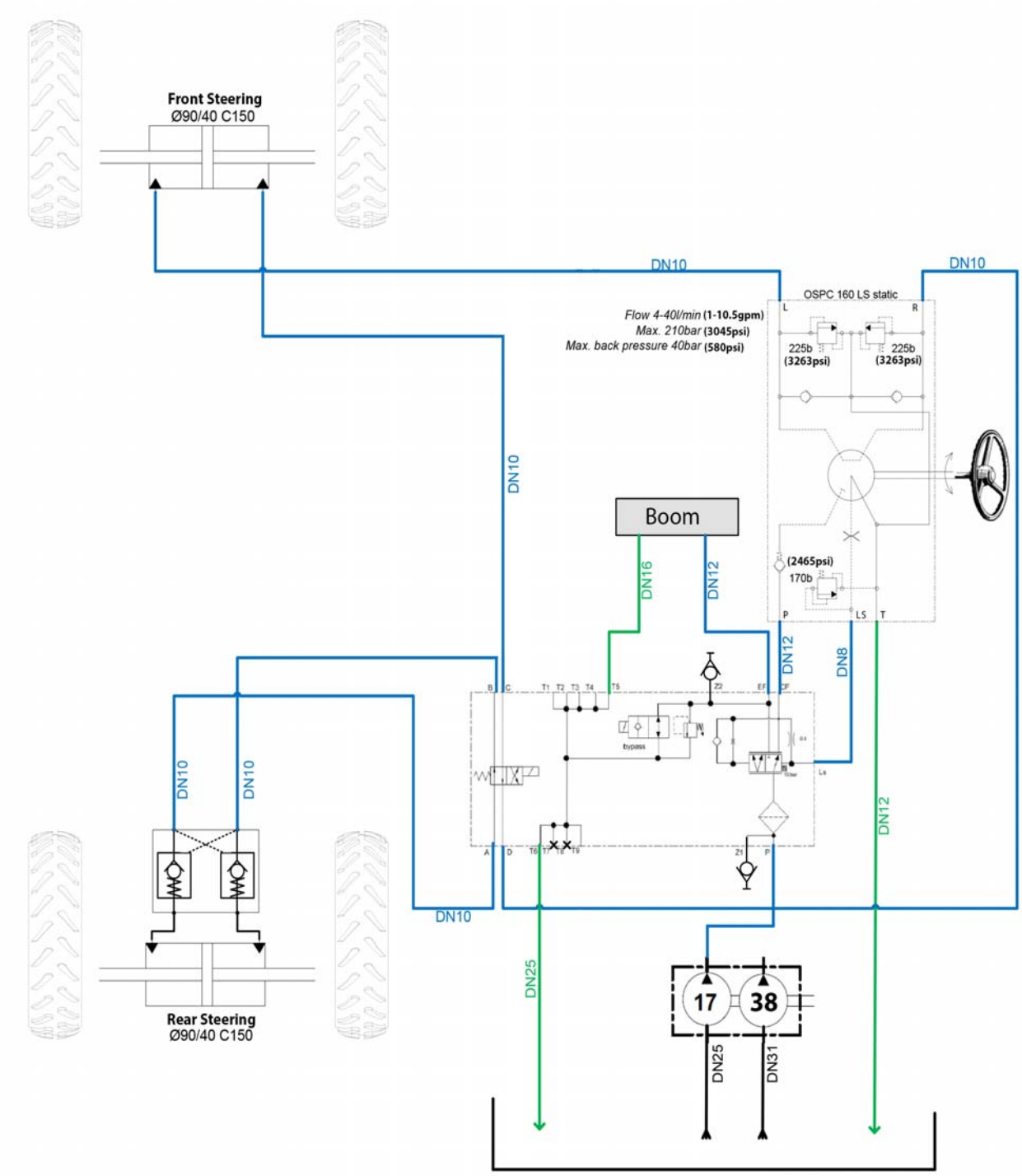
3: Safety Valve

4: Status Lights

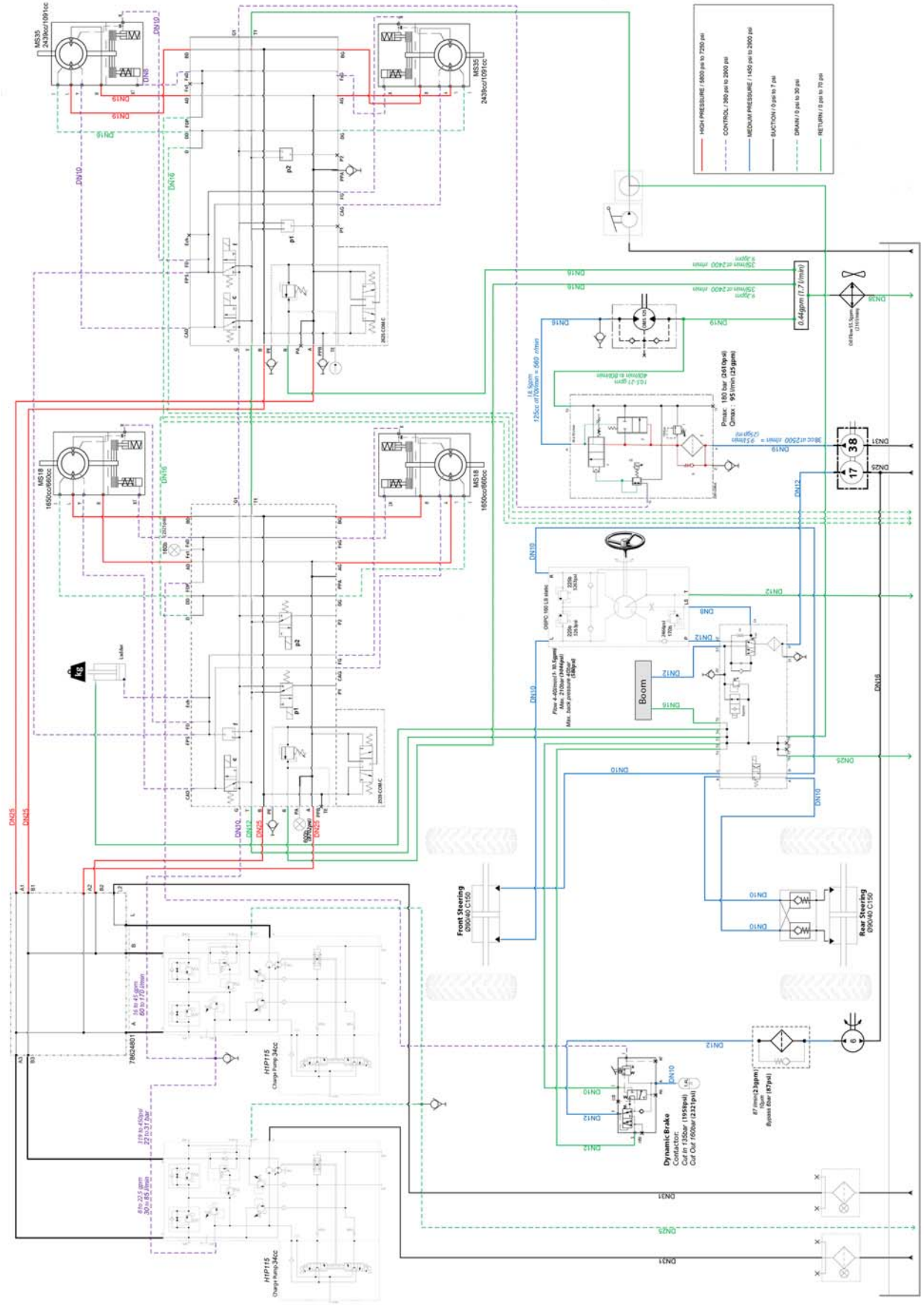
Diagram



Standard Steering Diagram

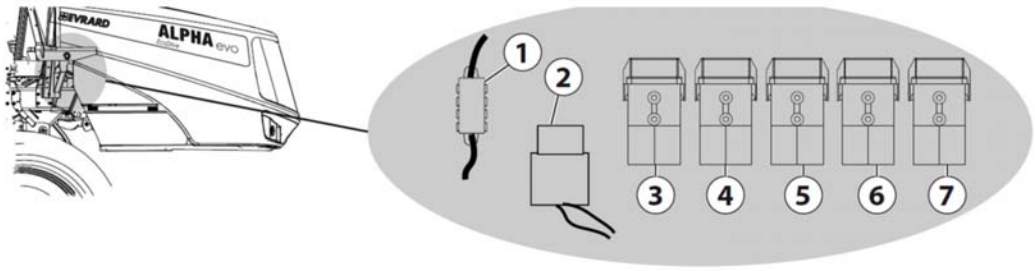


Hydraulic Diagram (Complete Machine)



Fuses

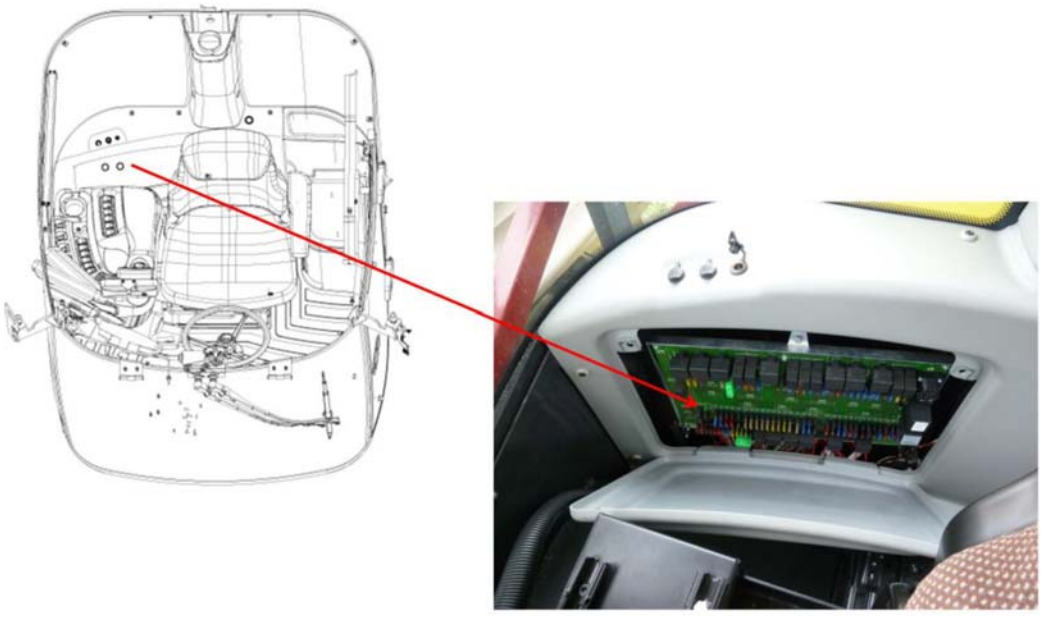
Front Fuses



Number	Amps	Description
1	10	Main Cabin Fuse (MEGAFUSE)
2		ECU Relay EMR4
3	15	Engine preheating spark plugs
4		Blower Fuse DPF
5	10	EGR valve - motor
6	15	NOx sensor of the DPF
7	60	Air burner for the DPF

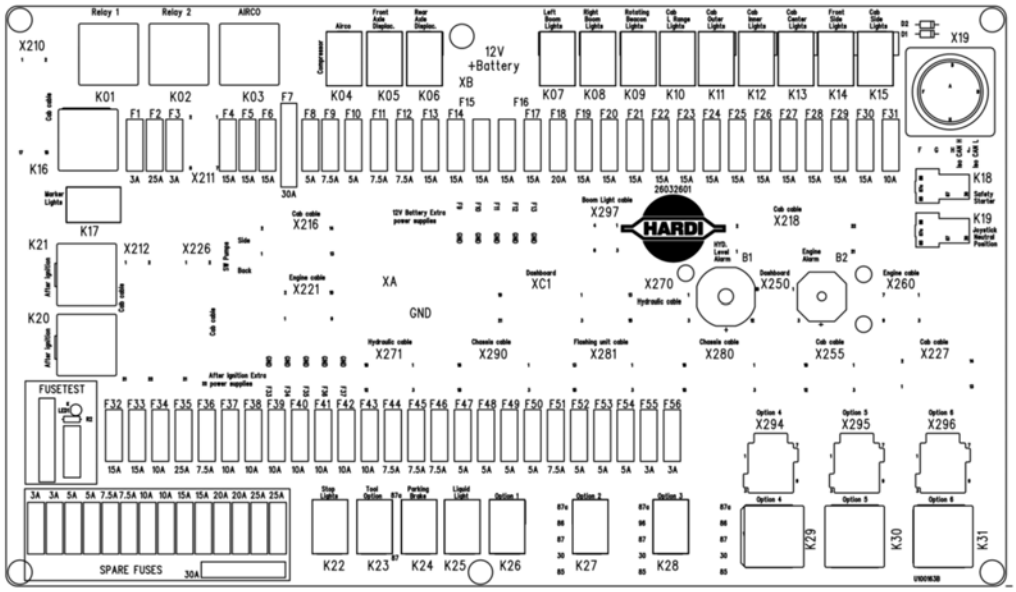
Fuse Box

Location



8 - Electrical

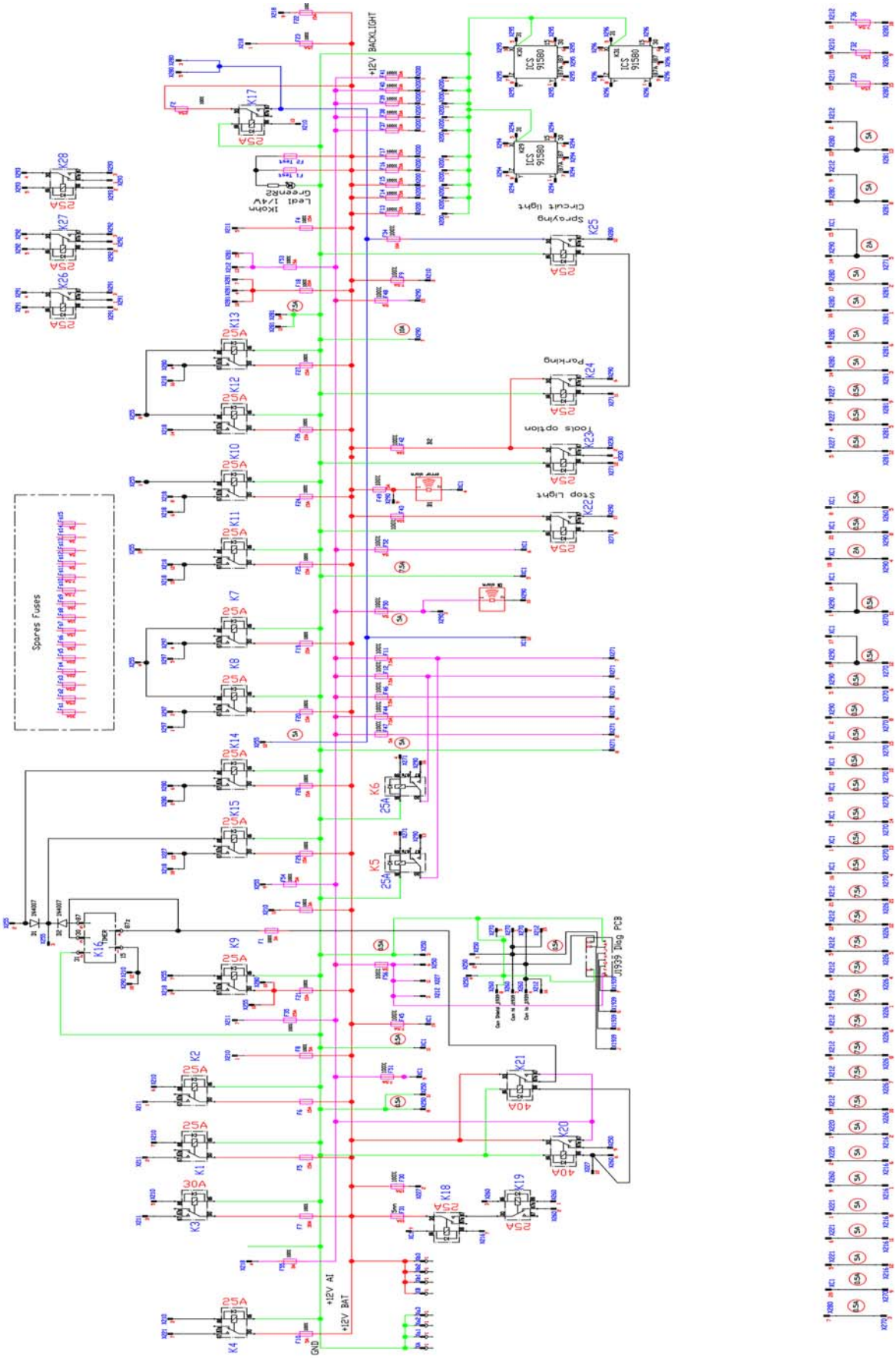
Fuse Card



Fuse	Amps	Description
F1	3A	not used
F2	10A	Side lights/back lighting
F3	3A	12V Batt - ceiling
F4	15A	Flasher unit - control
F5	15A	not used
F6	15A	not used
F7	30A	12V Batt - air conditioning
F8	5A	12 V Batt - car radio
F9	7.5A	Rear view mirrors
F10	5A	Air conditioning Compressor
F11	7.5A	Front hydraulic motor capacity
F12	15A	Rear hydraulic motor capacity
F13	15A	12V Batt - Trimble CFX 750 - optional
F14	15A	12V Batt - Auto Height control - optional
F15	15A	12V Batt - Adjustable track width VTK only - optional
F16	15A	12V Batt - Adjustable track width controller VTK only
F17	15A	12V Batt - optional
F18	20A	Flasher unit
F19	15A	Boom lights 1 and 2 (HC9500 only)
F20	15A	Boom lights 3 and 4 (HC 9500 only)
F21	15A	Hazard lights
F22	15A	Cigarette lighter - 12V sockets
F23	15A	Seat compressor unit
F24	15A	not used
F25	15A	Right front cabin lights
F26	15A	Left rear cabin lights
F27	15A	not used
F28	15A	Front cabin lights
F29	15A	Front side cabin lights
F30	15A	Starter contactor
F31	10A	Starter solenoid
F32	15A	Dipped Beam
F33	15A	Main beam headlights

Fuse	Amps	Description
F34	10A	Work area lighting (optional)
F35	25A	Windshield washer pump -windshield wipers
F36	7.5A	Acoustic alarm
F37	10A	12V after ignition - 4-wheel steering
F38	10A	12V after ignition - optional
F39	10A	12V after ignition - optional
F40	10A	12V after ignition - adjustable track width VTK only
F41	10A	12V after ignition - off-road unit
F42	10A	Road - parking -4-wheel drive standard mode
F43	5A	Brake lights
F44	7.5A	12V after contact with SD module - input 1
F45	7.5A	Permanent 12V battery - HC9500 console
F46	7.5A	12V after contact with SD module - input 2
F47	5A	not used
F48	5A	Footbridge control
F49	5A	Brake pressure - hydraulic level - alarms
F50	5A	Hydraulic oil level alarm
F51	7.5A	12V after ignition - engine error reversing buzzer
F52	5A	12V after ignition - "CONCOCKPIT" console - HC9500
F53	5A	12V after ignition - right and left direction indicator
F54	5A	12V after ignition - cabin switches
F55	3A	12V after ignition - air conditioning and car radio
F56	3A	12V after ignition - J1939 diagnostic socket

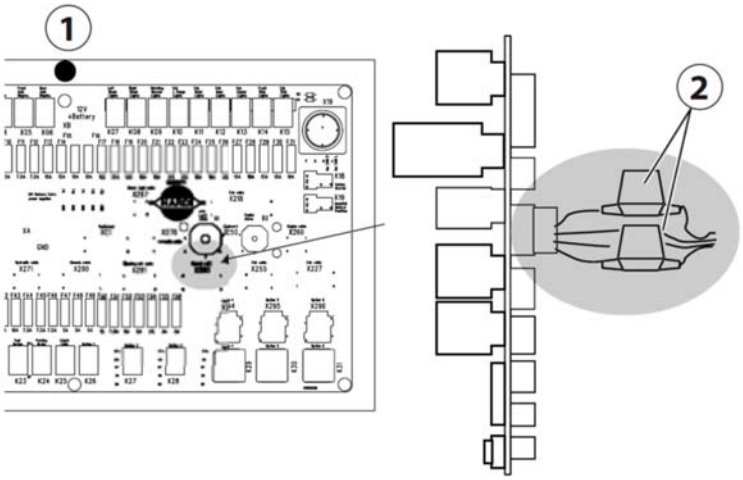
Diagram


+12V BACKLIGHT
Spraying Circuit light
Parking
Tools option
Stop Light
Spares Fuses
+12V AI
+12V BAT
GND

Sidelight Fuses

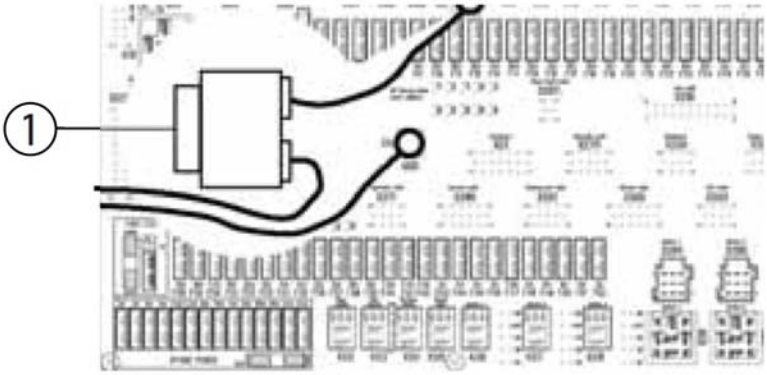
.

- 2 Fuses for the sidelight are located behind the main power PCB
- 7.5A fuses



Jobcom Fuse

- The Jobcom supply fuse is located behind the main power PCB.
- 30A fuse

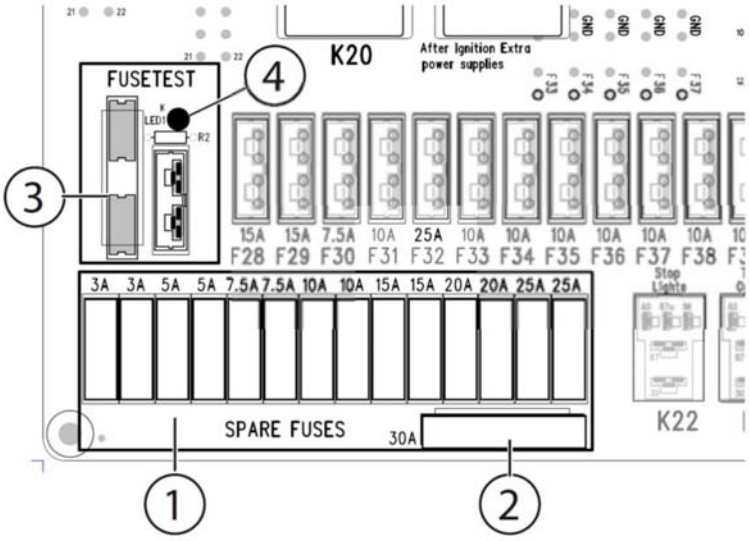


Fuse Tester/Spare Fuses

- The main power PCB has spare fuses (Auto fuses & Maxi fuses)

Checking the Fuse

1. Extract the fuse which you would like to check and put it on the fuse tester (3).
2. If the light (4) turns on, the fuse is OK, if the light (4) does not turn on, the fuse is dead.

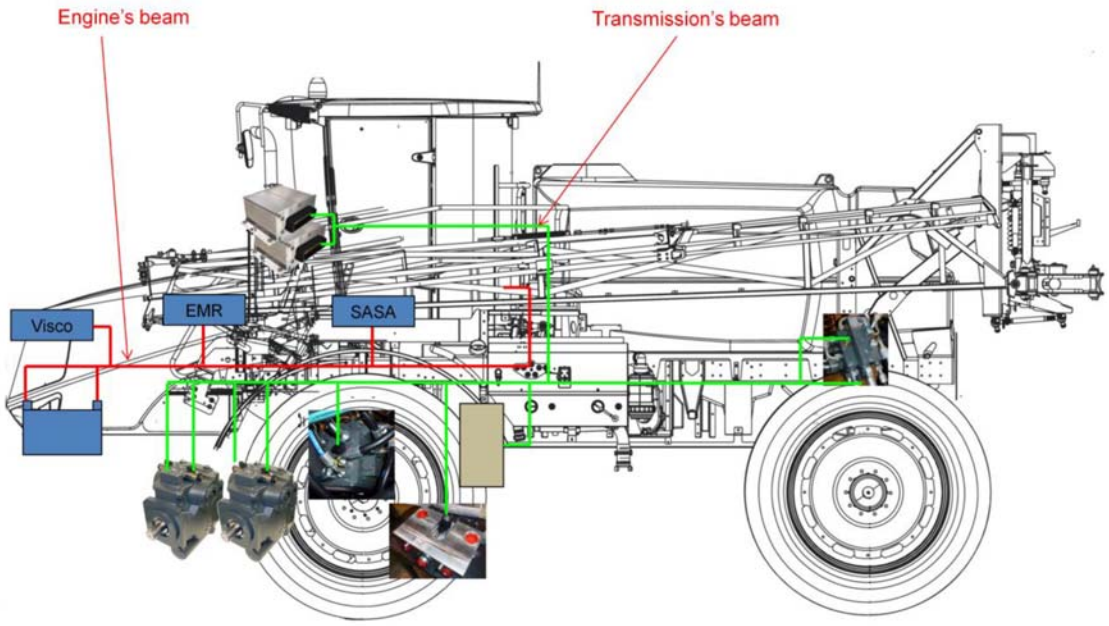


8 - Electrical

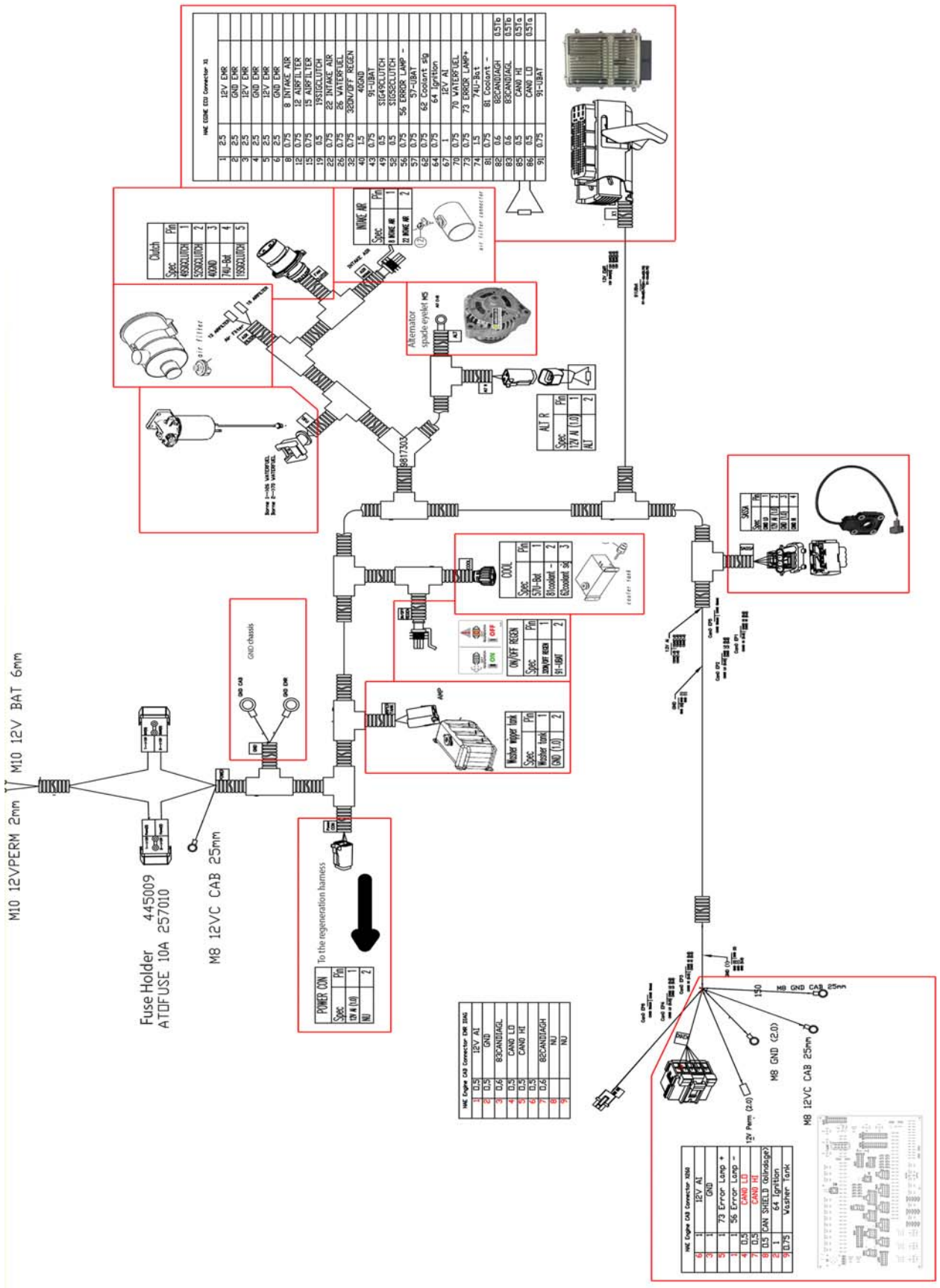
Harnesses

Engine/Transmission Harness

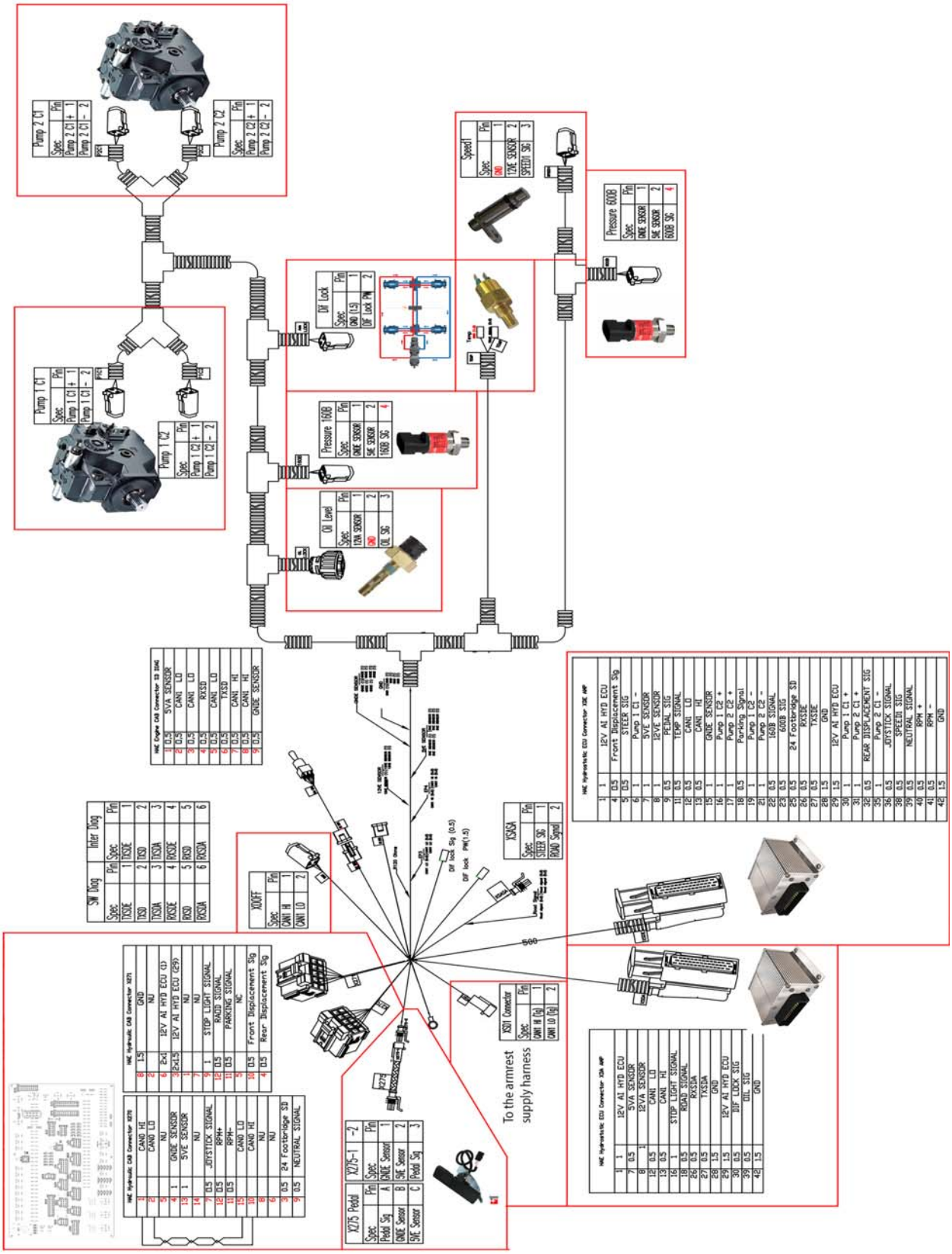
Location



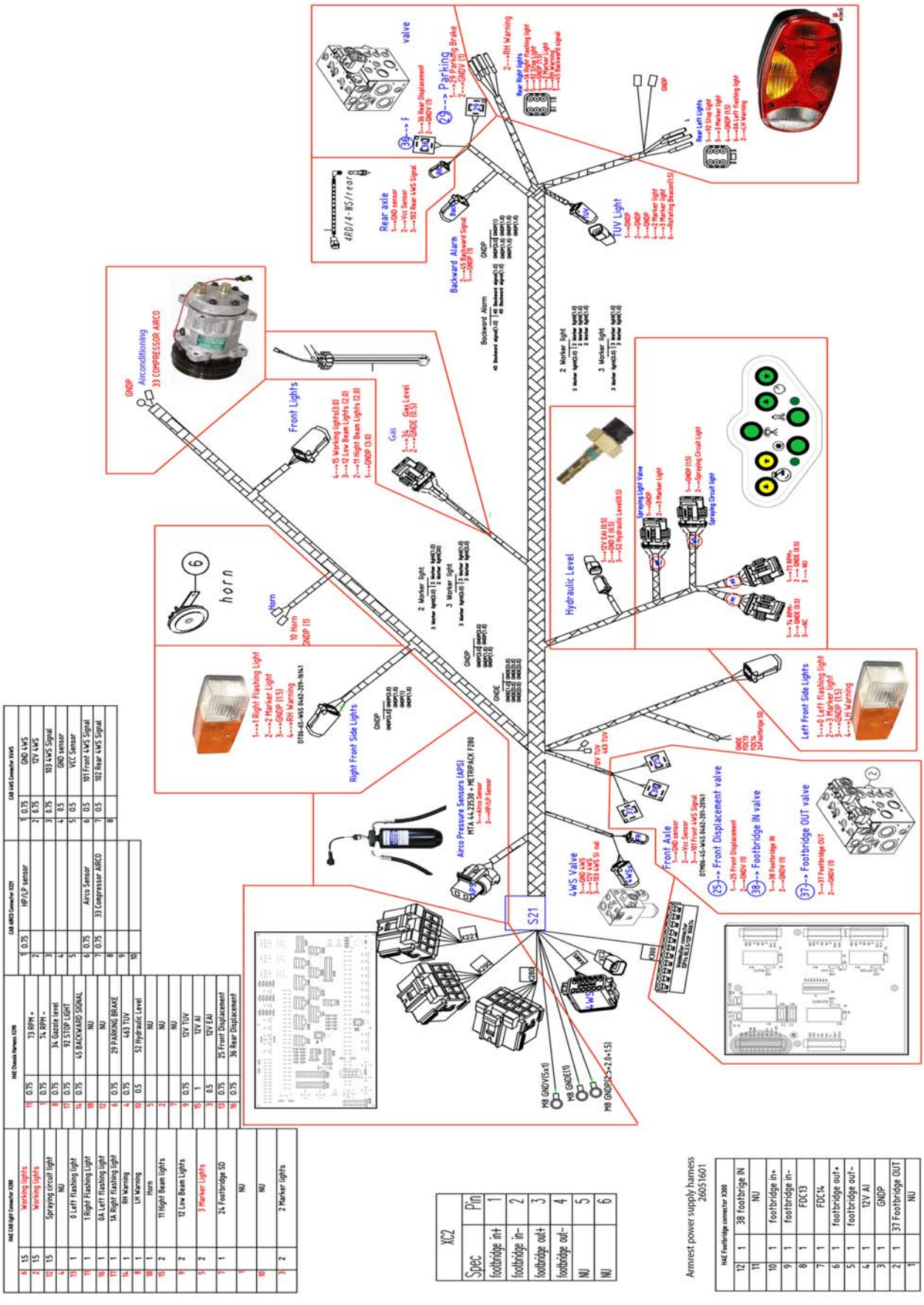
Engine Harness



Transmission Harness

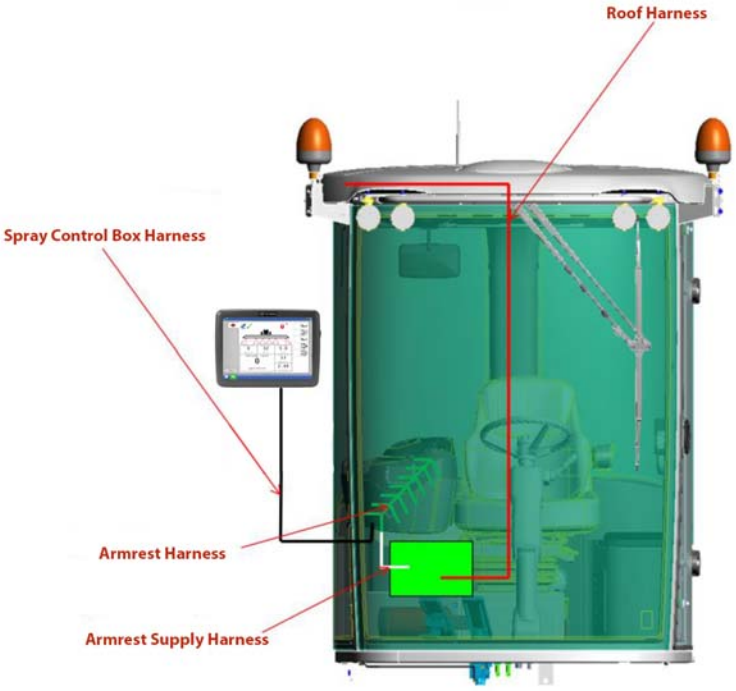


Main Harness

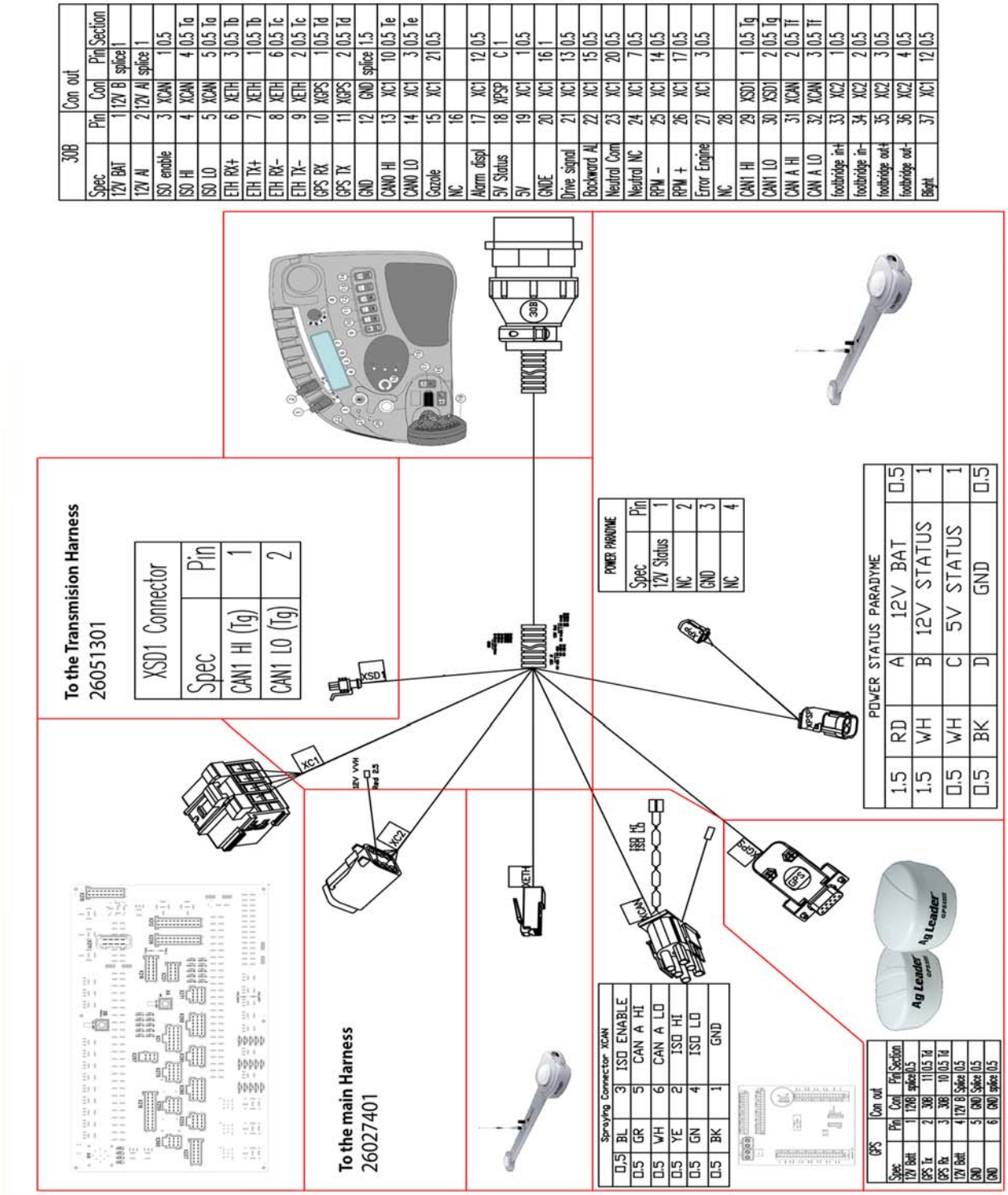


Cab Harnesses

Location



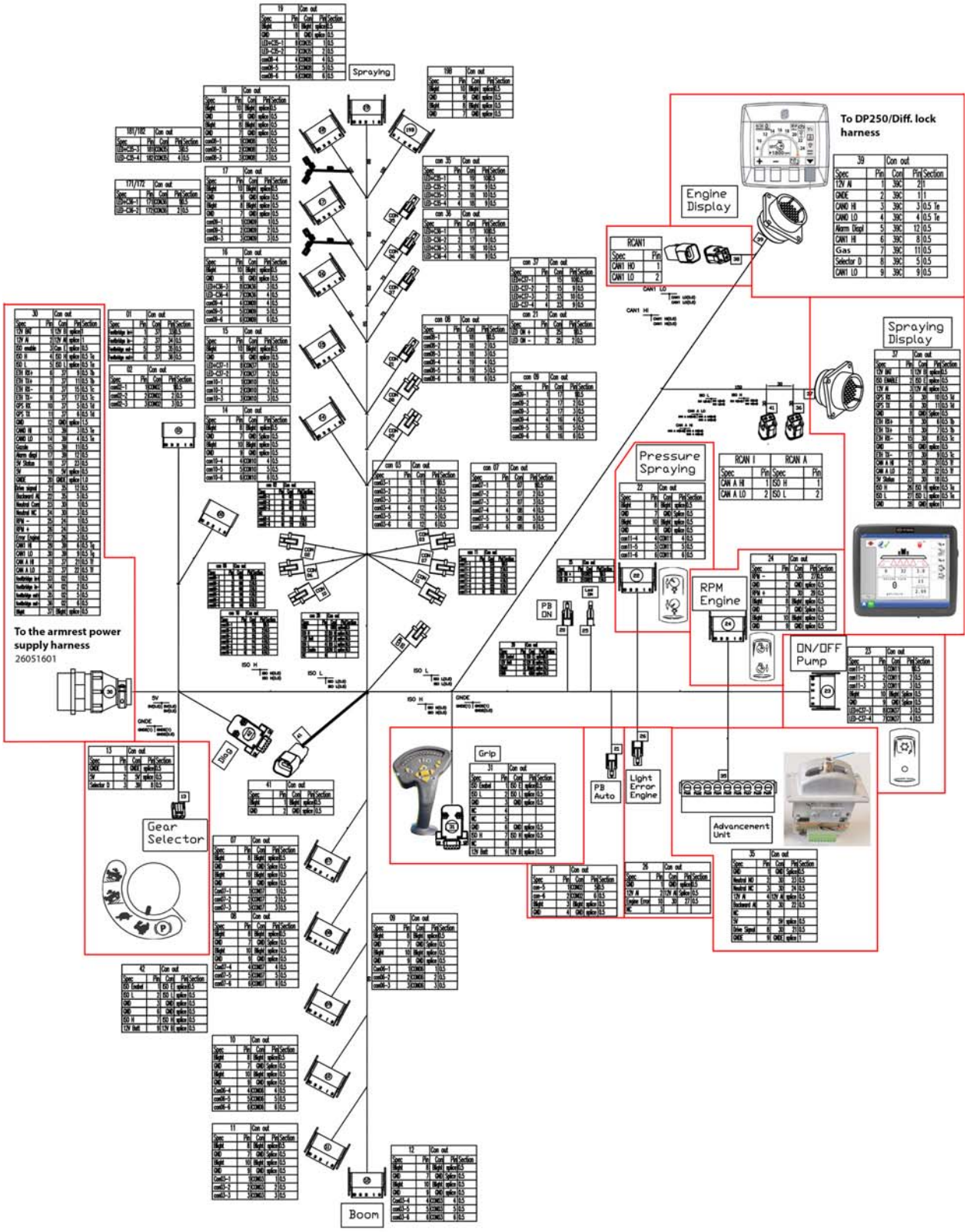
Armrest Supply Harness



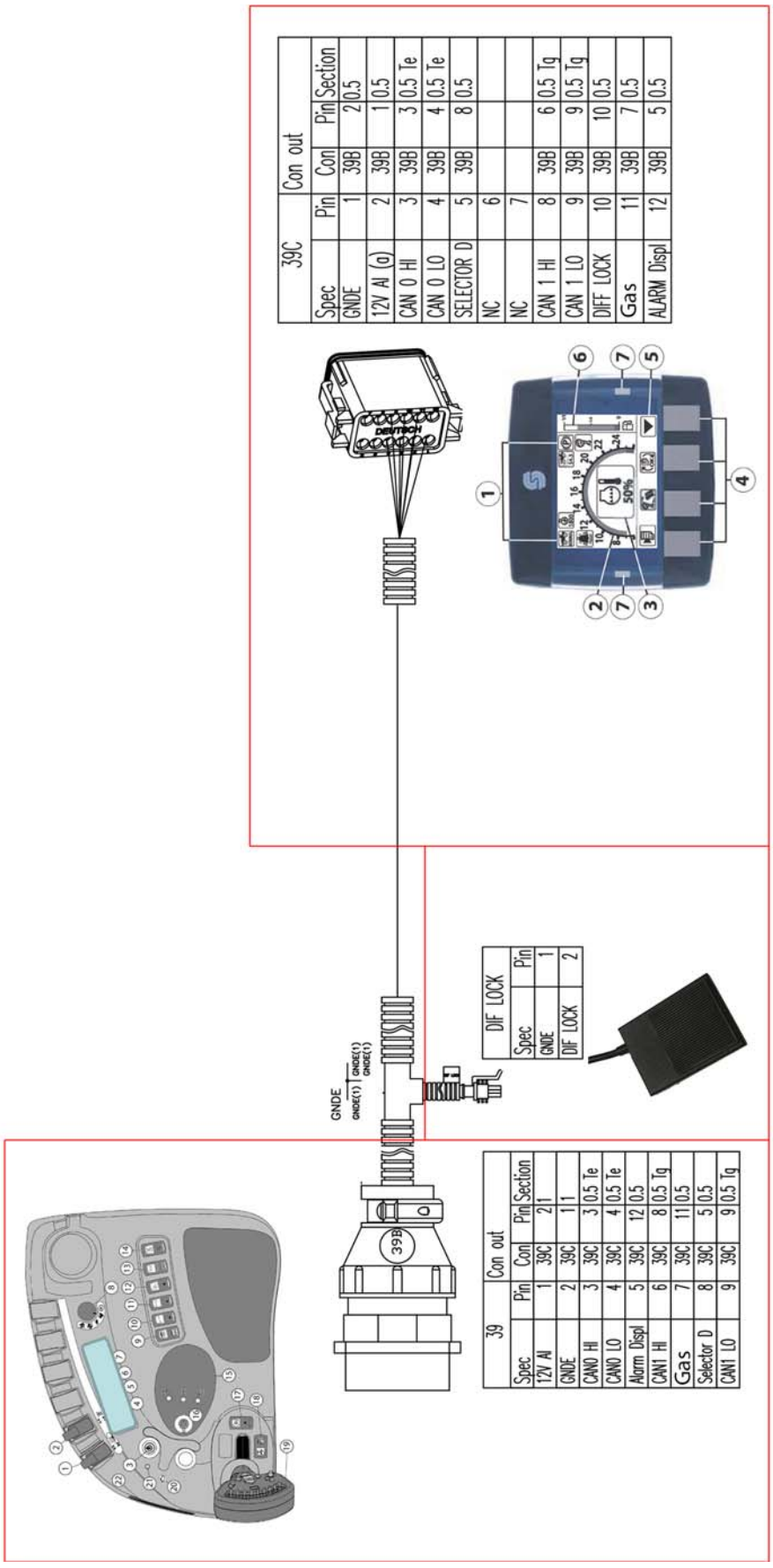
HAE Armrest CAB Connector XC1		
20	Neutral Com	0.5
7	Neutral NC	0.5
16	GNDE	1
1	5V	0.5
2	Selector D	0.5
13	Drive signal	0.5
15	Backward AL	0.5
12	Blight	0.5
5	GND	1.5
6	12V AI	0.5
18	NU	
4	Alarm Display	0.5
14	RPM -	0.5
17	RPM +	0.5
8	Error Engine	0.5
11	GND	1.5
9	12V AI	1
19	12V BAT	1
10	CAN0 HI	0.5
3	CAN0 LO	0.5
21	Gas	0.5

XC2 Armrest	
Spec	Pin
footbridge in+	1
footbridge in-	2
footbridge out+	3
footbridge out-	4
12V AI	5
12V WH (2.5)	6

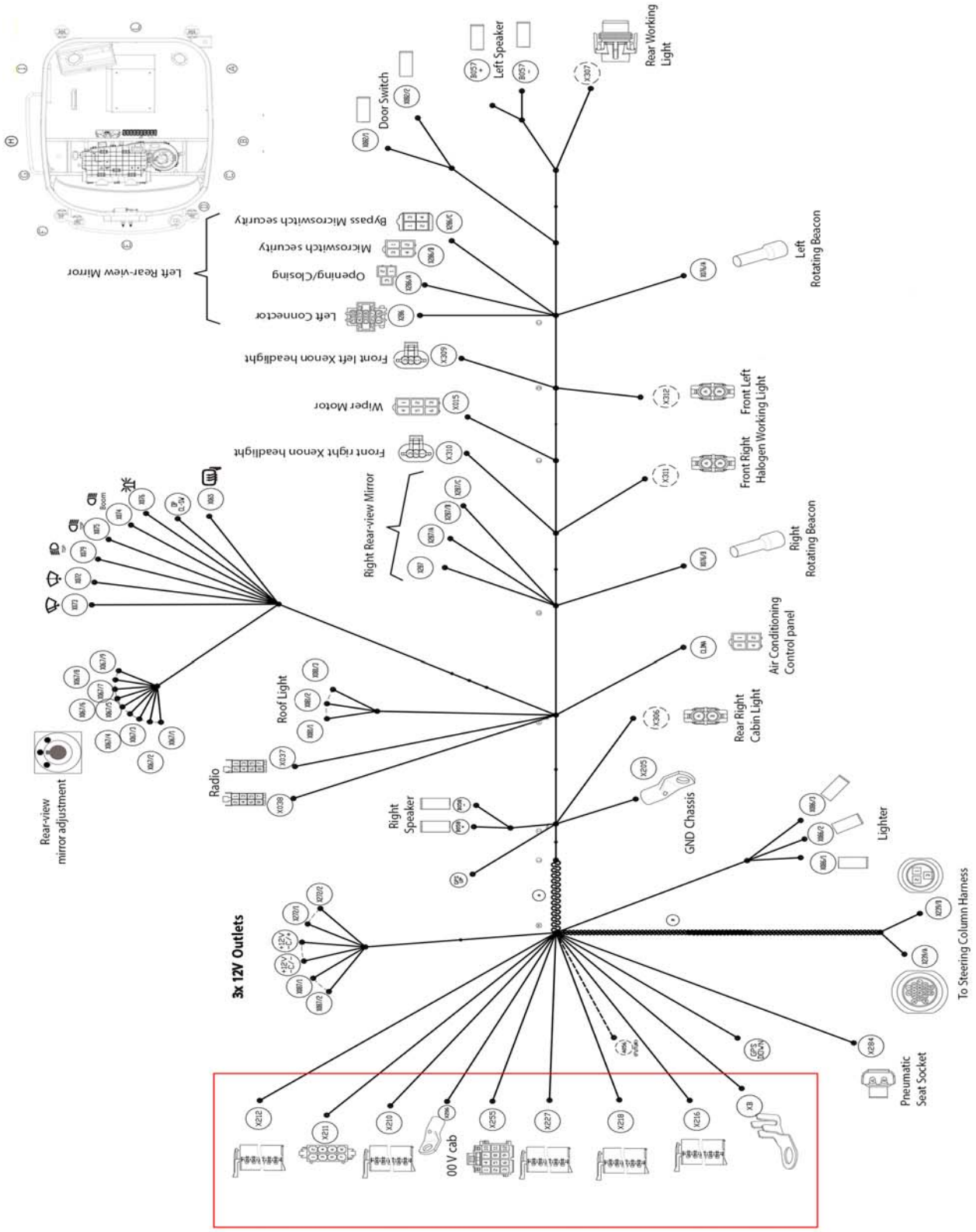
Armrest Harness



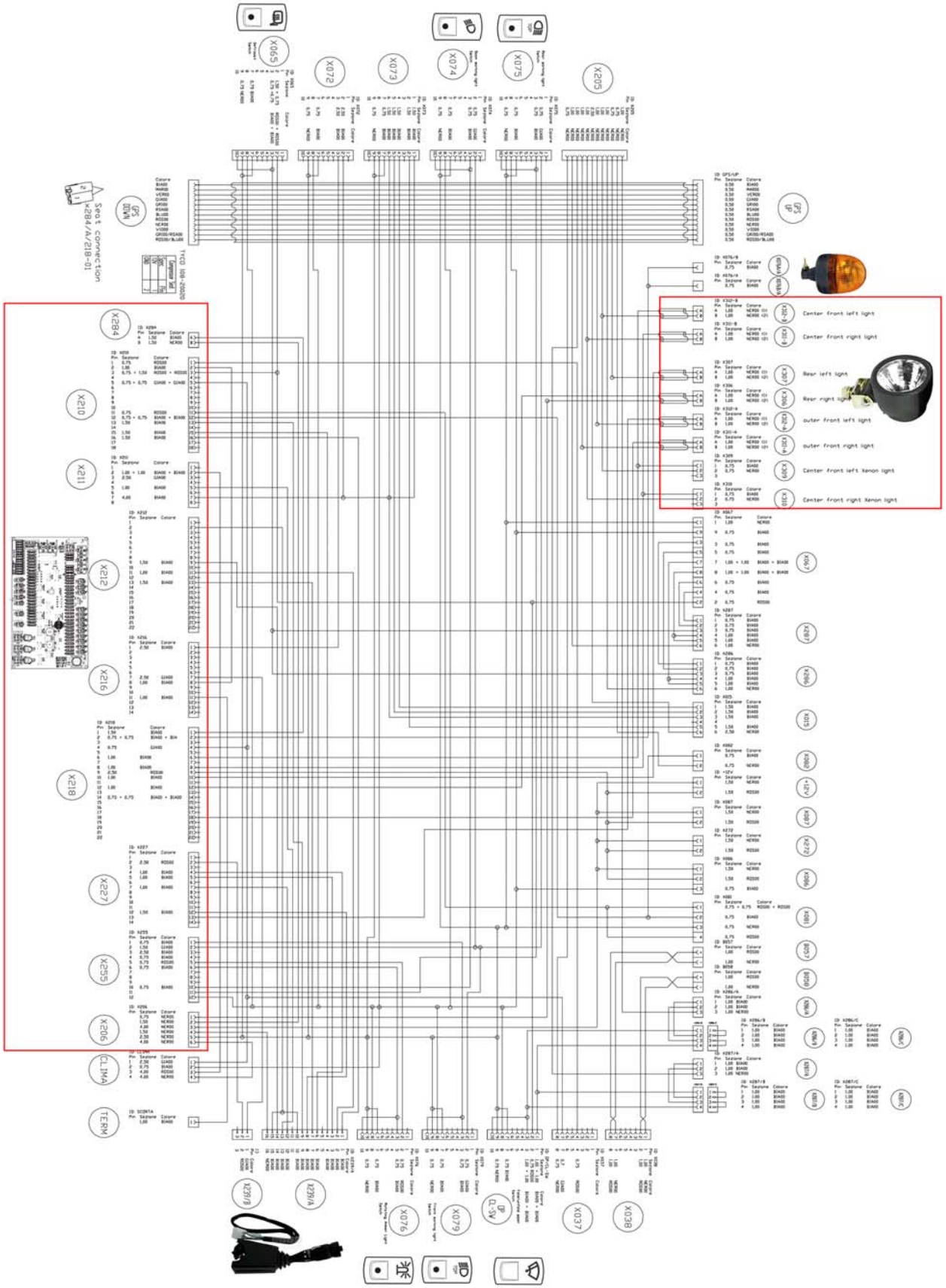
DP250/Diff. Lock Harness



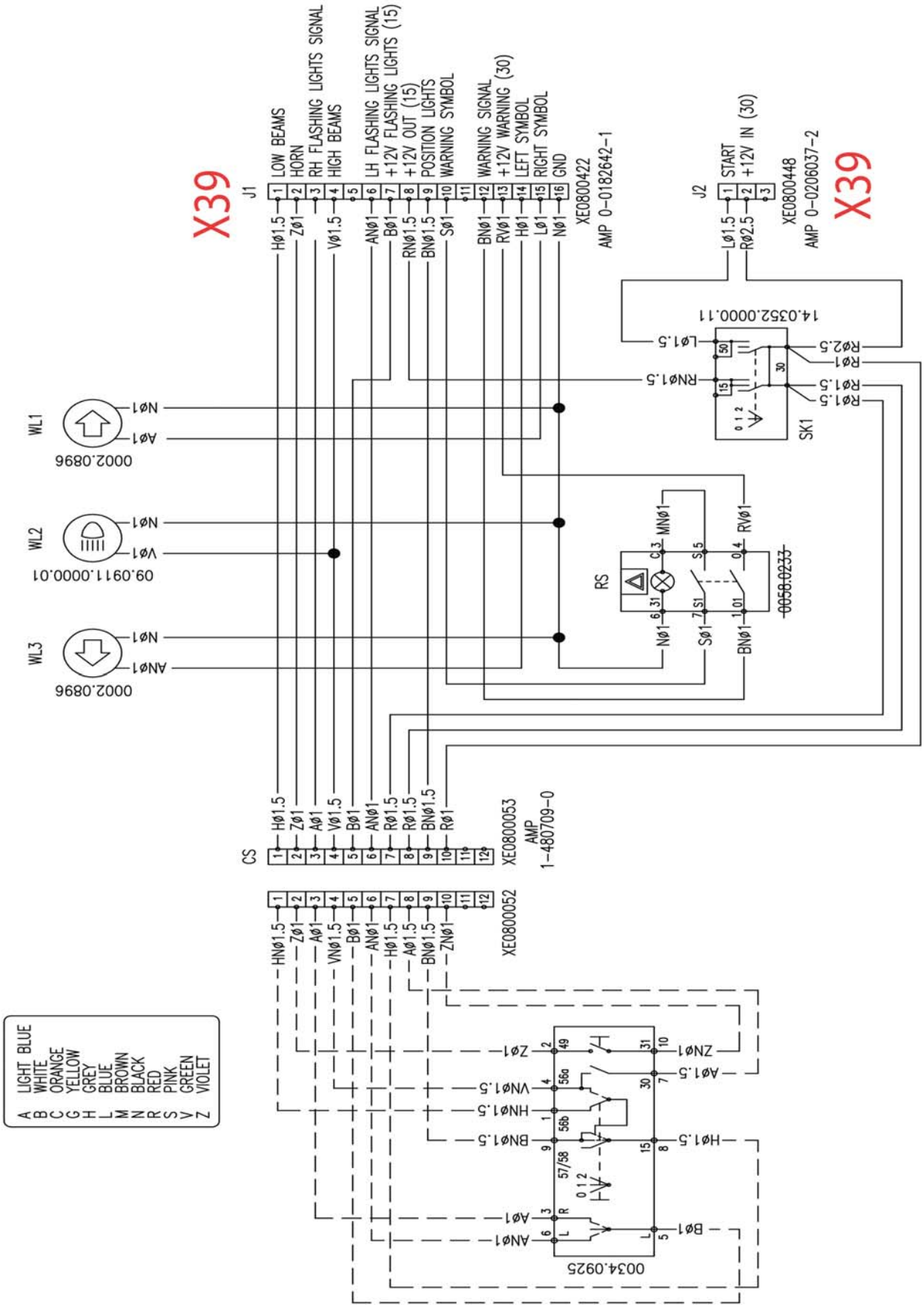
Roof Harness



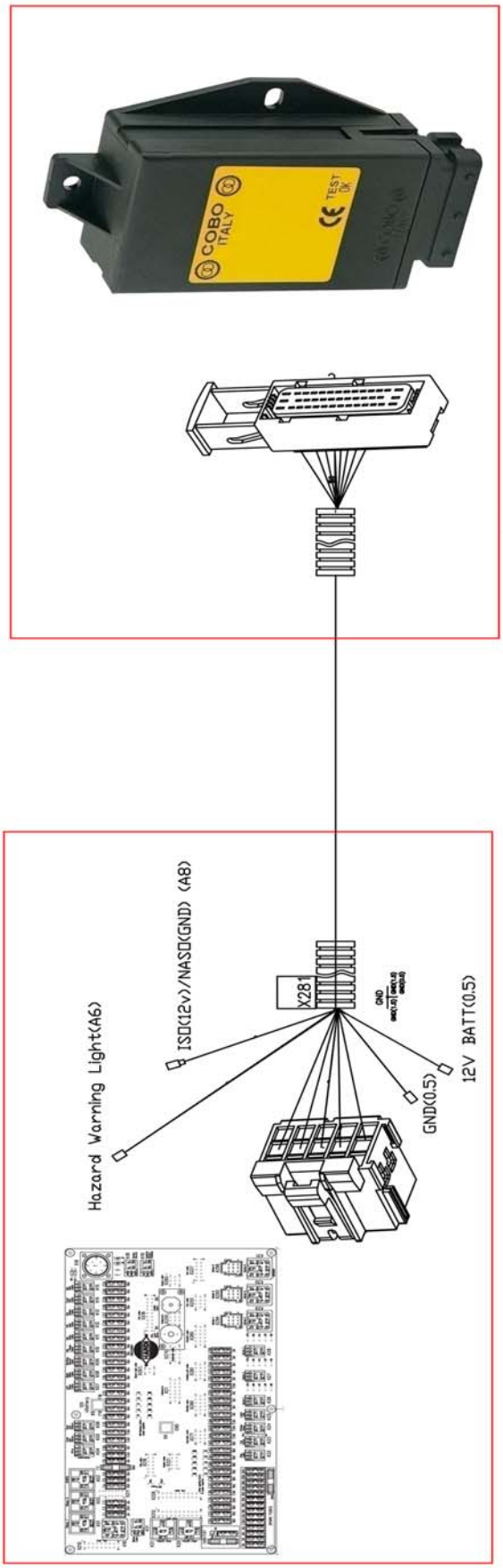
Roof Harness Pinout



Steering Column Harness



Flashing Unit Harness

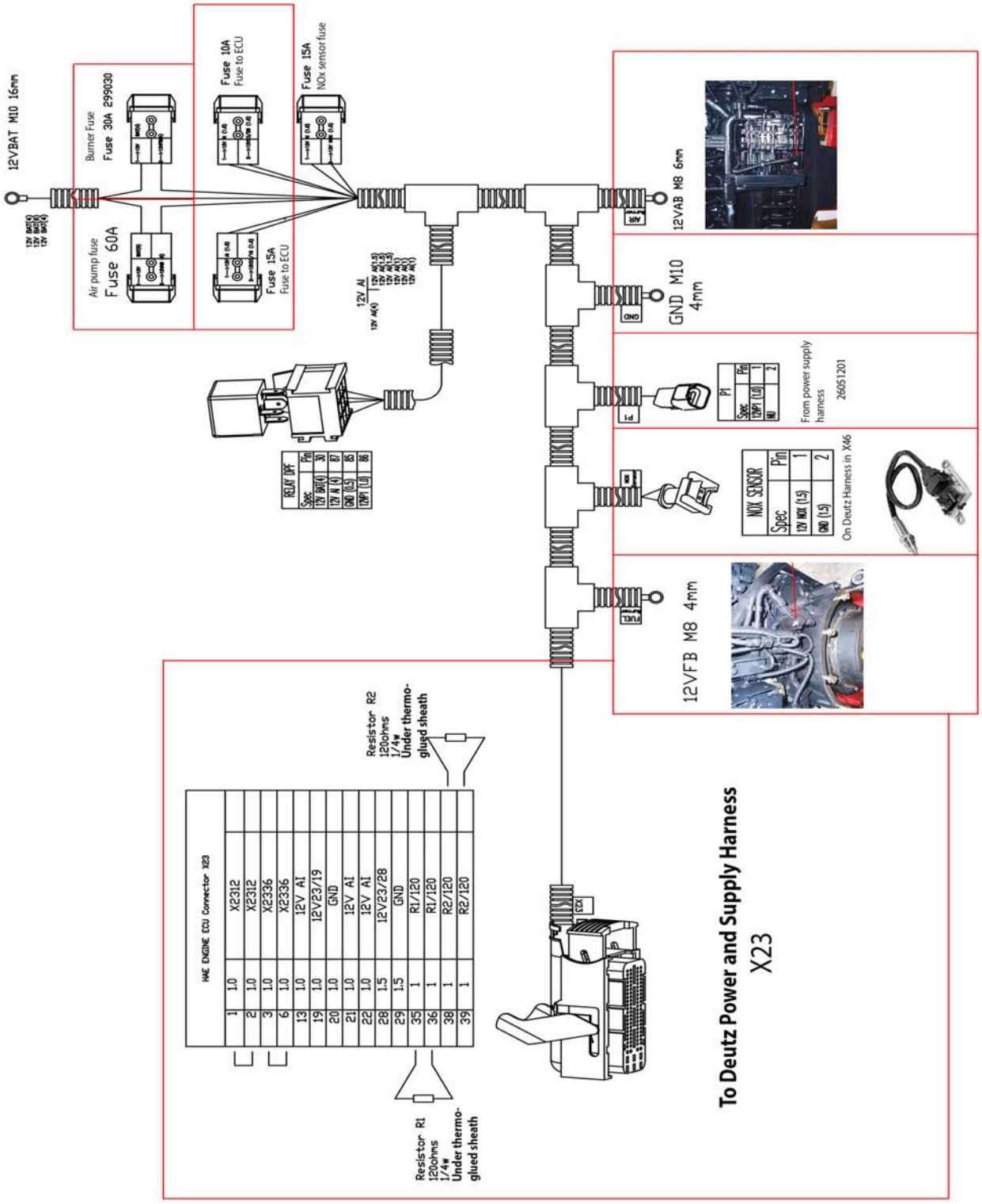


Flashing unit Connector		
B4	Input control emergency light	1
A8	ISO(12v)/NASO(GND)	0.5
B3	LH Flasher lights signal	1
B2	RH Flasher lights signal	1
B8	GND	1.5
A1	12V Batt	1.5
A2	Front Lamp RH	1.5
A4	Front Lamp LH	1.5
A3	Rear Lamp RH	1.5
A5	Rear Lamp LH	1.5
B6	SMV Lamp LH	1.5
B7	SMV Lamp RH	1.5
B1	12V Batt	1.5
A6	Hazard Warning Light	1.5

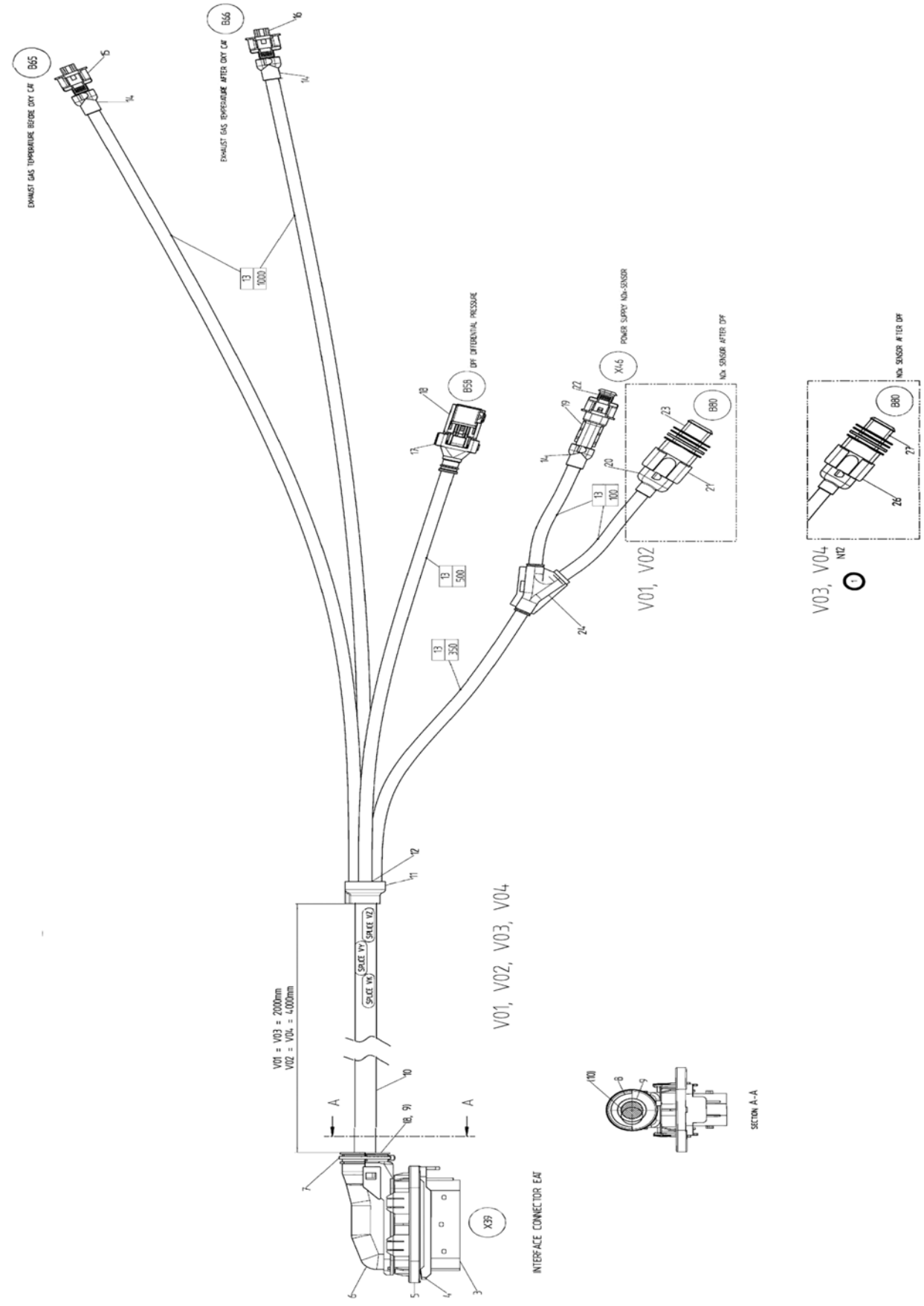
HAE CAB Flashing unit Connector X281		
9	Input control emergency light	1
15	NU	
4	12V Batt	1.5
11	GND	1.5
5	LH Flasher lights signal	1
12	RH Flasher lights signal	1
14	NU	
7	12V Batt	1.5
8	Front Lamp RH	1.5
13	Front Lamp LH	1.5
2	Rear Lamp RH	1.5
1	Rear Lamp LH	1.5
6	SMV Lamp LH	1.5
3	SMV Lamp RH	1.5
10	12V Batt	1.5

Deutz Harnesses

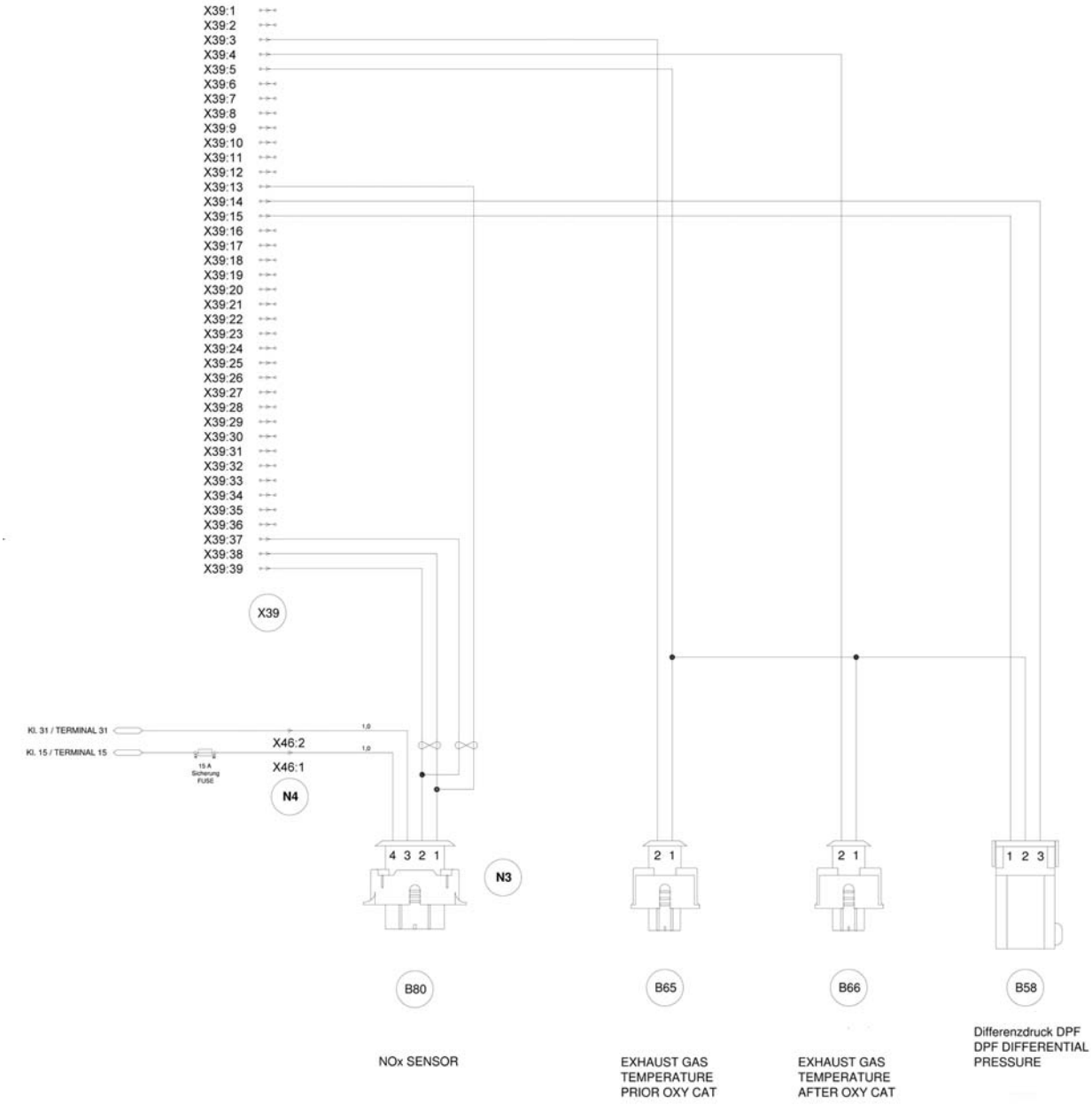
Cleanup Harness



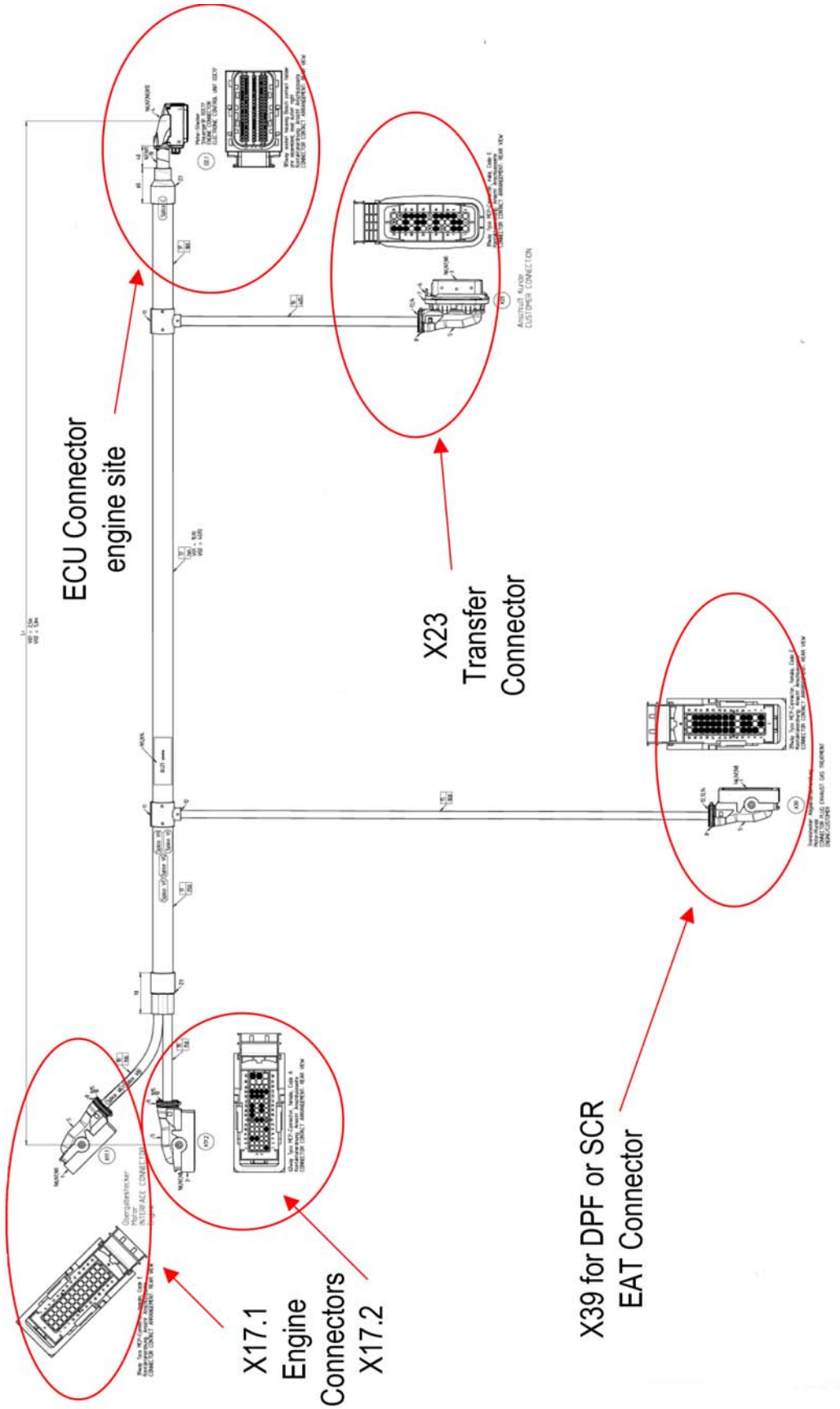
DPF Harness


B65
EXHAUST GAS TEMPERATURE BEFORE DOC CAT
B66
EXHAUST GAS TEMPERATURE AFTER DOC CAT
B56
DPF DIFFERENTIAL PRESSURE
X46
POWER SUPPLY NOx-SENSOR
B80
NOx SENSOR AFTER DPF
V01, V02
V03, V04
N12
V01 = V03 = 2000mm
V02 = V04 = 4000mm
SPLICE V1
SPLICE V2
SPLICE V3
V01, V02, V03, V04
X39
INTERFACE CONNECTOR EAI
SECTION A-A

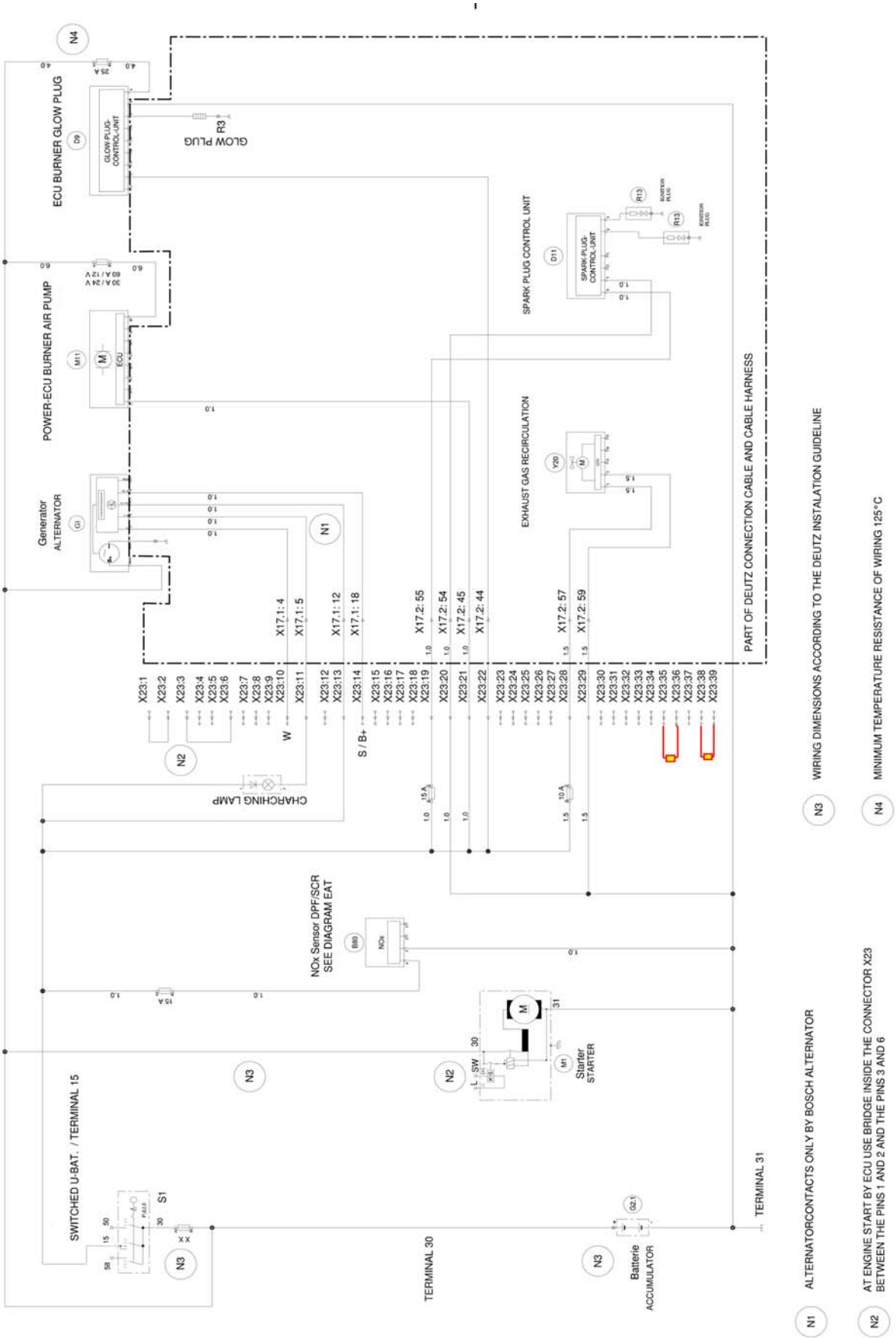
DPF Harness Pin-out



Deutz Power and Supply Harness

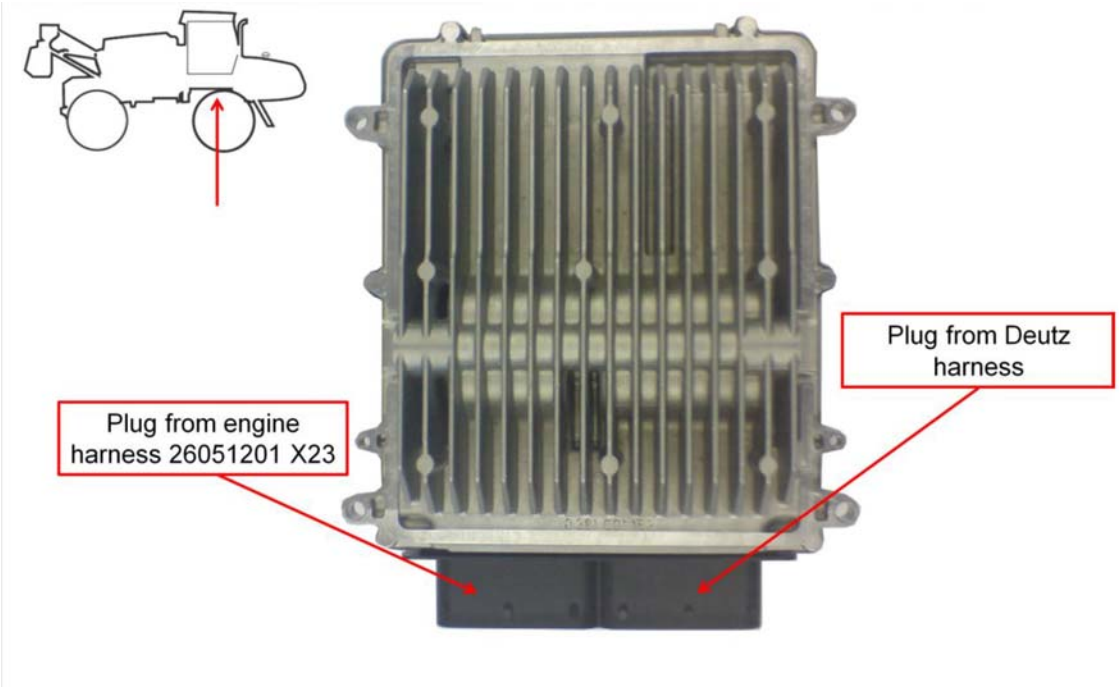


Deutz Power and Supply Harness Pin-out



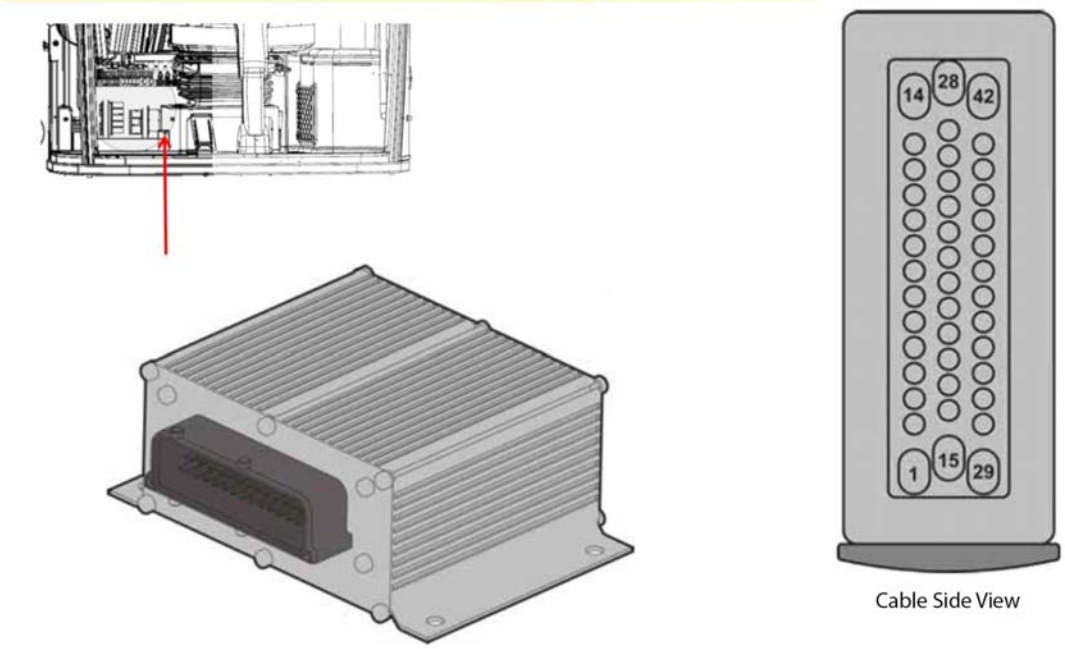
Modules

Engine ECU



- If the ECU fails, it will give a FMI and DTC error code.
- A Failure on the CAN network will put the engine in failure mode (engine will only turn at 1200rpm).

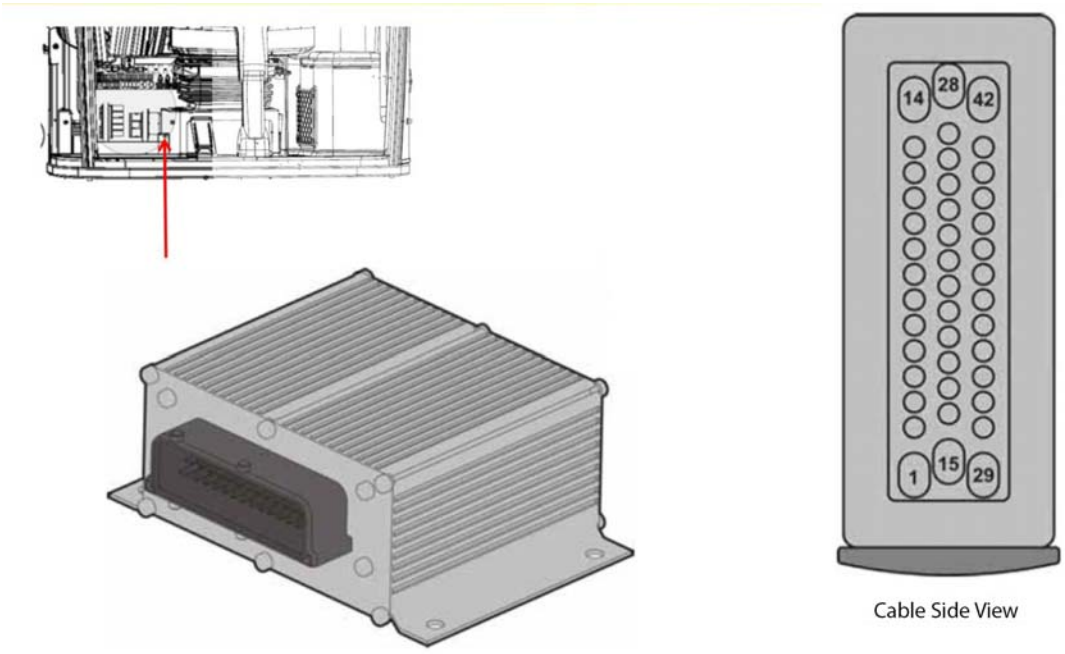
Smart Drive Extended ECU



- The Smart Drive Extended ECU is the Master ECU which manages the hydrostatic transmission.

Pin	Description	Pin	Description
1	12V AI HYD ECU	23	600 bar Sig
4	Front Displacement Sig	25	24 Footbridge SD
5	Steer Sig	26	RXSDE
6	Pump 1 C1 -	27	TXSDE
7	5VE Sensor	28	GND
9	Pedal Sig	29	12V AI HYD ECU
10	Speed 2 Sig	30	Pump 1 C1 +
11	Temp Signal	31	Pump 2 C1 +
12	CAN 1 LO	32	Rear Displacement Sig
13	CAN 1 HI	35	Pump 2 C1 -
15	GND Sensor	36	Joystick Signal
16	Pump 1 C2 +	38	Speed 1 Sig
17	Pump 2 C2 +	39	Neutral Sig
18	Parking Signal	40	RPM +
19	Pump 1 C2 -	41	RPM -
21	Pump 2 C2 -	42	GND
22	160 bar Signal		

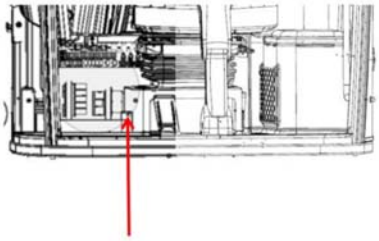
Smart Drive Auto ECU



- The Smart Drive Auto ECU is the Slave ECU which manages the hydrostatic transmission.

Pin	Description	Pin	Description
1	12V AI HYD ECU	26	RXSDA
7	5V Sensor	27	TXSDA
8	12V Sensor	28	GND
12	CAN 1 LO	29	12V AI HYD ECU
13	CAN 1 HI	30	Diff. Lock Sig
15	GND Sensor	39	Oil Sig
16	Stop Light Sig	42	GND
18	Road Sig		

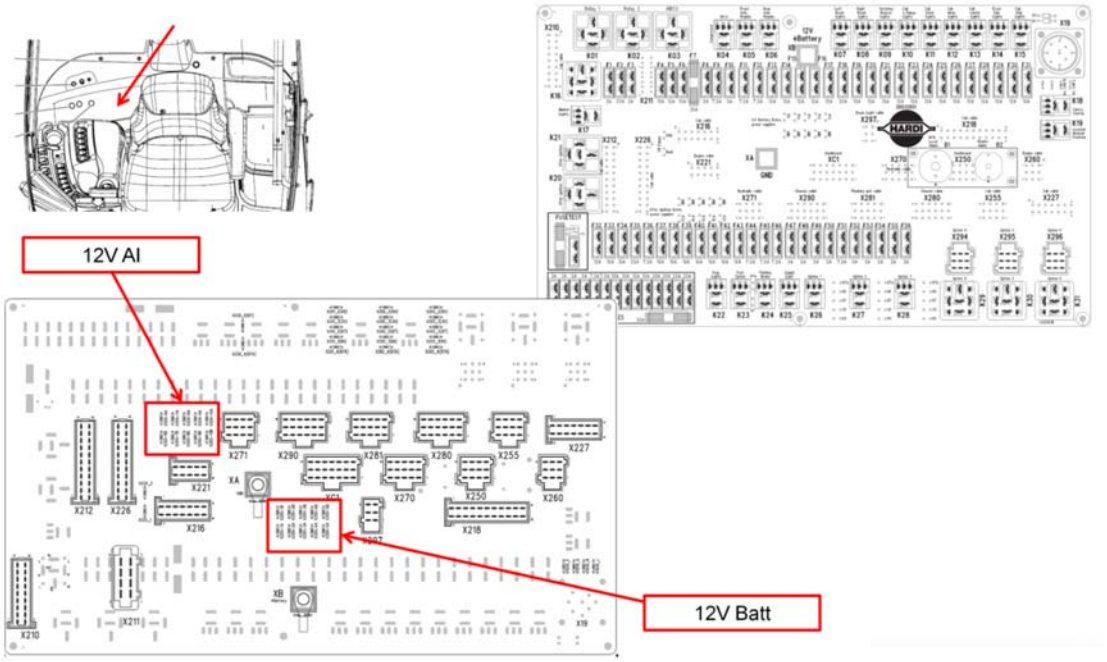
Flasher Unit



Pin	Description	Pin	Description
B1	12V Battery	A1	12V Battery
B2	RH Flasher Lights Sig	A2	Front Lamp RH
B3	LH Flasher Lights Sig	A3	Rear Lamp RH
B4	Input Control (Emergency Light)	A4	Front Lamp LH
B6	SMV Lamp LH	A5	Rear Lamp LH
B7	SMV Lamp RH	A6	Hazard Warning Light
B8	GND	A8	ISO (12V)/NASO (GND)

PCB

Power PCB



Pinout

HAE Armrest CAB Connector XC1	
20	Neutral contact
7	Neutral contact
16	Ground Sensor
1	5V sensor
2	Gear selector sig
13	Manipulator signal
15	Backward
12	Backlight
5	Ground
6	12V AI Display
18	Brake pressure light
4	Error alarm signal
14	RPM- Signal
17	RPM+ Signal
8	Error Engine Light signal
11	Armrest Gnd
9	Armrest 12V AI
19	Armrest 12V Batt
10	Can HI Display
3	Can Lo Display
21	Fuel Level

HAE CAB light Connector X280	
6	Side LH bonnet light
2	Side RH bonnet light
12	Spraying circuit light
4	center light option
11	Front LH flashing light
13	Front RH flashing light
17	Rear LH flashing light
16	Rear RH flashing light
14	Rear SMV lights
8	Front SMV lights
18	Horn
15	Headlights
9	Dimmed Lights
5	Tail lights
7	Footbridge SD
1	Enter light switch
10	Enter light 12V
3	Marker lights

HAE CAB Engine Connector X260	
6	After ignition signal
3	Ground relay
5	Error Lamp
1	Starter Security
4	CAN LO J1939
7	CAN HI J1939
8	CAN SHIELD
2	Starter signal
9	Washer wiper pump

HAE Hydraulic CAB Connector X271	
8	GND HYD ECU
2	12V AI HYD ECU
6	12V AI HYD ECU
3	12V AI HYD ECU
1	12V AI HYD ECU
7	12V AI HYD ECU
9	Stop light ecu Sig
12	Tool opt ecu sig
11	Parking ecu signal
5	Backward signal
4	Relay Front Displ
10	Relay Rear Displ

HAE Hydraulic CAB Connector X270	
2	CAN LO J1939
1	CAN HI J1939
5	CAN SHIELD
4	Sensor GND
13	5v sensor
14	Gear speed signal
7	Joystick signal
12	RPM+
11	RPM-
10	Can hi
15	Can lo
8	Dir1 signal
6	Dir2 signal
9	Neutral No
3	Footbridge SD

HAE Internal Roof CAB Connector X255	
2	Side cab light switch
9	12v AI light swtches
12	Light switch backlight
1	Working light switch
10	Rotating light power
7	Rotating light switch
3	Enter light switch signal
11	Side cab B light switch
8	Rear working light switch
4	Boom light switch

HAE CAB Boom Lights X297	
1	LH Boom light 1
2	LH Boom light 2
4	RH Boom light 1
5	RH Boom light 2

CNH CAB Connector X226	
1	Mirror Adj GER UP/DN
4	Mirror Adj RH U/D
5	Mirror Adj GER L/R
6	Mirror Adj LH L/R
7	Mirror Adj RH power
8	Mirror Adj LH U/D
10	Mirror Adj LH power
12	Mirror Adj RH L/R
21	Mirror Heating

CNH ASRCU CAB Connector X206	
1	Washer wiper pump
2	Washer wiper pump1
6	Washer wiper pump2
7	Startrelay
8	LP sensor
11	Common sensors
12	HP sensor

CNH CAB Connector X218	
1	seat
2	Rotating light
4	AIC
6	L21
8	L22
9	12v Plug
10	L19
12	L20
14	L17/L18
16	L15
18	L13

CNH ASRCU CAB Connector X221	
1	Airco LP sensor
5	Airco HP sensor
6	Airco Common Sensor
7	Airco Compressor

CNH CAB Connector X227	
2	Ignition key 12v Batt
4	LH Flasher lights signal
5	RH Flasher lights signal
7	Warning Signal
11	Diag 12V Batt
12	Ignition Key 12V AI
13	Side light worklight LH

HAE Rear CAB Connector X250	
9	Cut batt light
8	GND
11	GND
6	DIAG 12V AI
3	DIAG GND
4	CAN SHIELD
2	CAN LO J1939
1	CAN HI J1939

CNH CAB Connector X282	
1	Mirror Adj GER UP/DN
2	left warning column light
3	12V J1939
4	Mirror Adj RH U/D
5	Mirror Adj GER L/R
6	Mirror Adj LH L/R
7	Mirror Adj RH power
8	Mirror Adj LH U/D
9	right warning column light
10	Mirror Adj LH power
11	Horn
12	Mirror Adj RH L/R
13	12V BAT Multiswitches column
14	
15	CAN HI J1939
16	CAN LO J1939
21	Mirror Heating

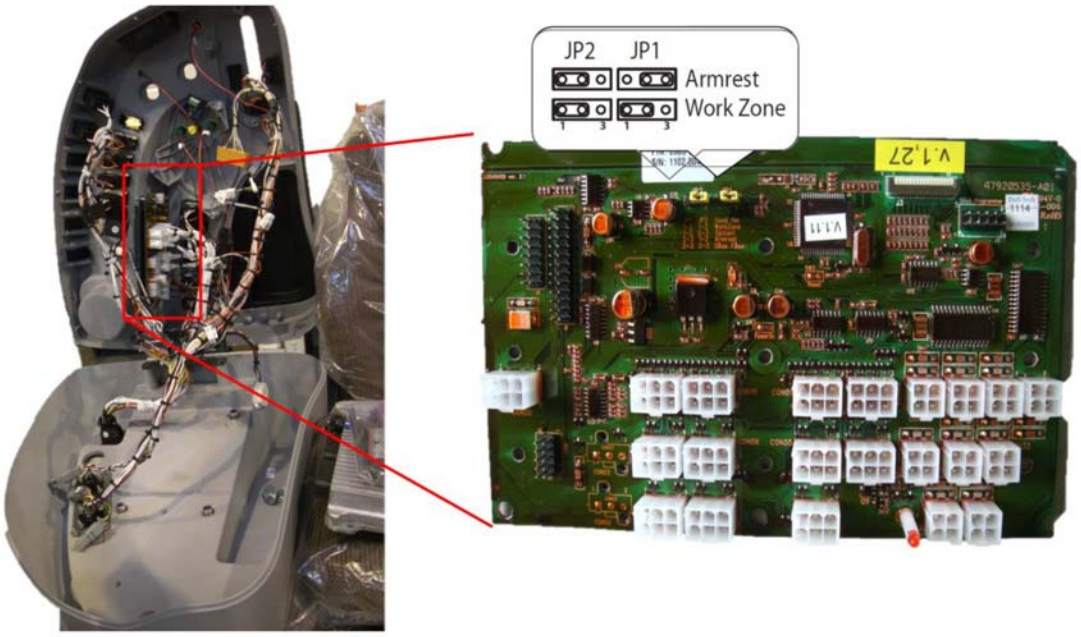
HAE Main Harness X290	
11	RPM+
1	RPM-
8	GO
17	STOP
14	Backward
18	In Tinner
12	NU
6	Parking
4	TUV
10	Oil alarm
5	DIR2
2	DIR1
7	Ground
9	TUV+
15	12V AI
3	12V AI
13	Front Displ
16	Rear Displ

HAE CAB Flashing unit Connector X281	
9	Input control emergency light
15	12V AI
4	12V Batt
11	Ground
5	LH Flasher lights signal
12	RH Flasher lights signal
14	Ground
7	12V Batt
8	Front Lamp RH
13	Front Lamp LH
2	Rear Lamp RH
1	Rear Lamp LH
6	SMV Roof Lamp LH
3	SMV Roof Lamp RH
10	12V Batt

CNH CAB Connector X210	
1	12V Batt Car radio
2	Airco Compressor signal
3	12V mirrors adjust
5	Airco Blower 1 Signal
6	Airco Blower 2 Signal
7	Airco Blower 3 signal
11	12V Batt Done light
12	K17 Done light timer
13	K7 Backlight input
15	FU31 Headlight
16	FU20 Dimmed light

CNH ASRCU CAB Connector X211	
1	K11 Blower 2
2	K10 Blower 3
3	K9 Blower 1
5	multi switches column power
7	Windscreen

Armrest PCB

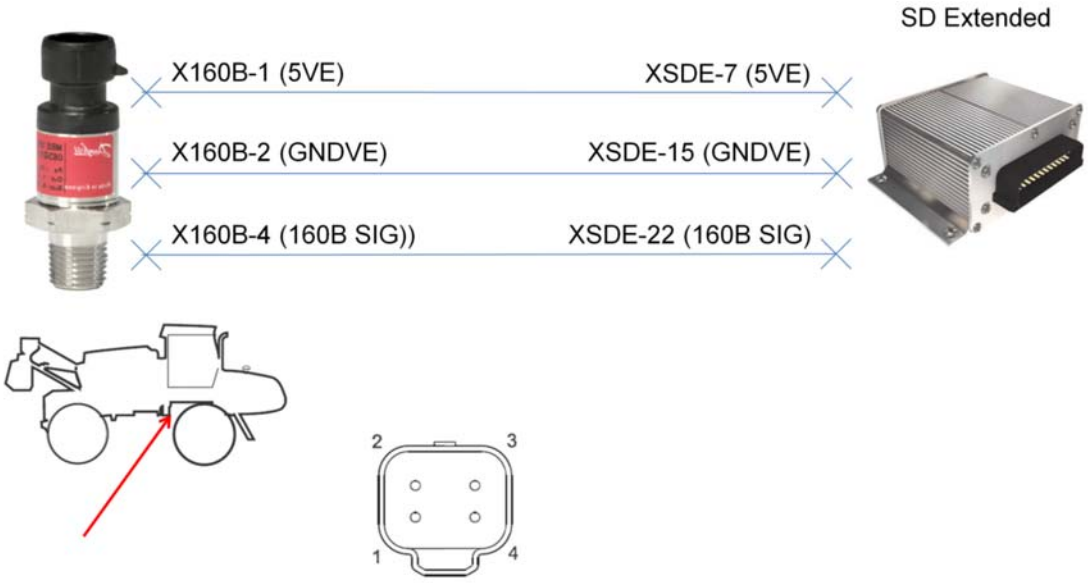


Sensors

Transmission Sensors

Sensor	Type	Function	
160b	Analogic	Measures the pressure in dynamic brake system	
600b	Analogic	Measures the pressure in forward HP circuit	
Loop flushing temperaure	Thermocontact	Measures the transmission's oil temperaure	
Oil level	Contact	Check the good oil level	
Footbridge	Contact	Check the footbridge's position	
Speed	Fréquential	Measures the forward speed	
Displacement pedal's sensor	Analogic	Measures the position of the displacement pedal	
Manipulator's sensor	Analogic	Measures the position of the manipulator	

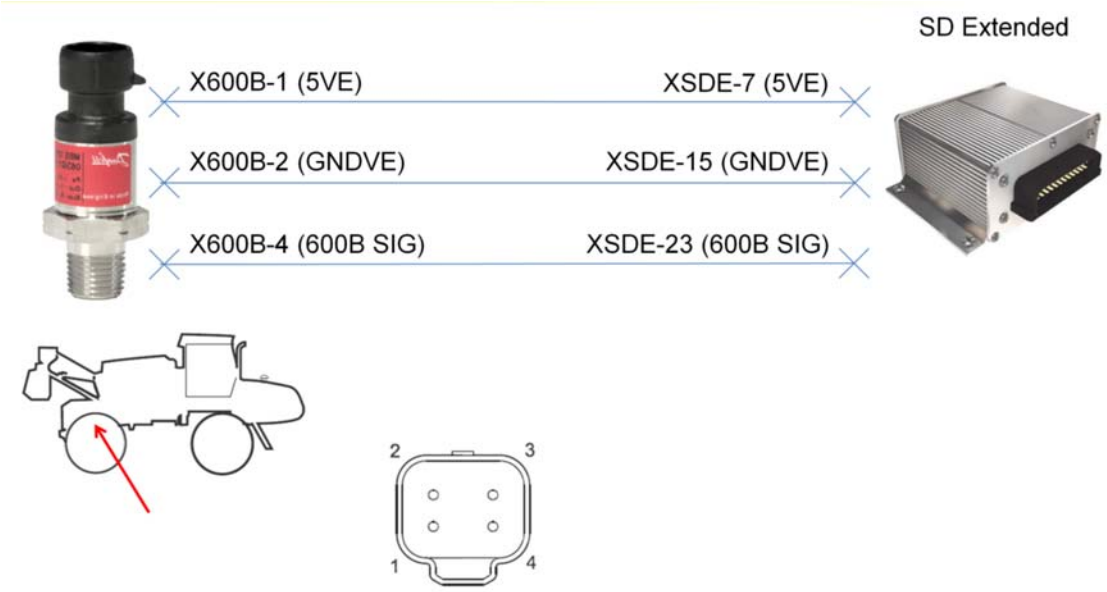
160 bar (2320psi) Sensor



- Measures the pressure in the dynamic brake circuit.
- When it detects a brake pedal push, it turns on the stop lights, and cancels the H1 pump flow when the pressure exceeds 1450psi (100 bar) into the brake circuit (forbids the machine to move).

Pin	Description
1	5V
2	GND
4	Signal (0.5-4.5V)

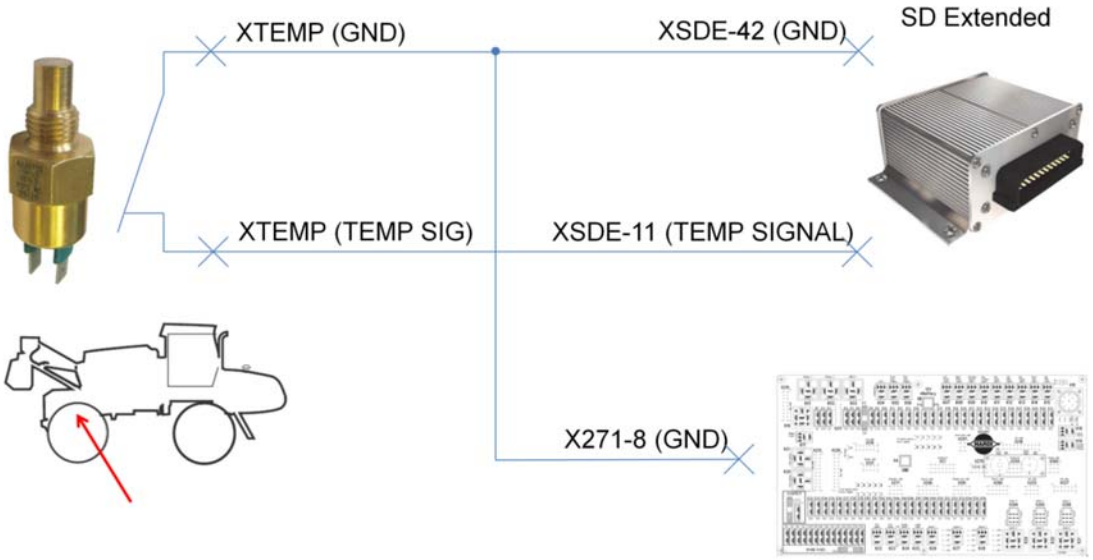
600 bar (8702psi) Sensor



- Measures pressure in the forward HP circuit.
- The signal can be read directly on the DP250.

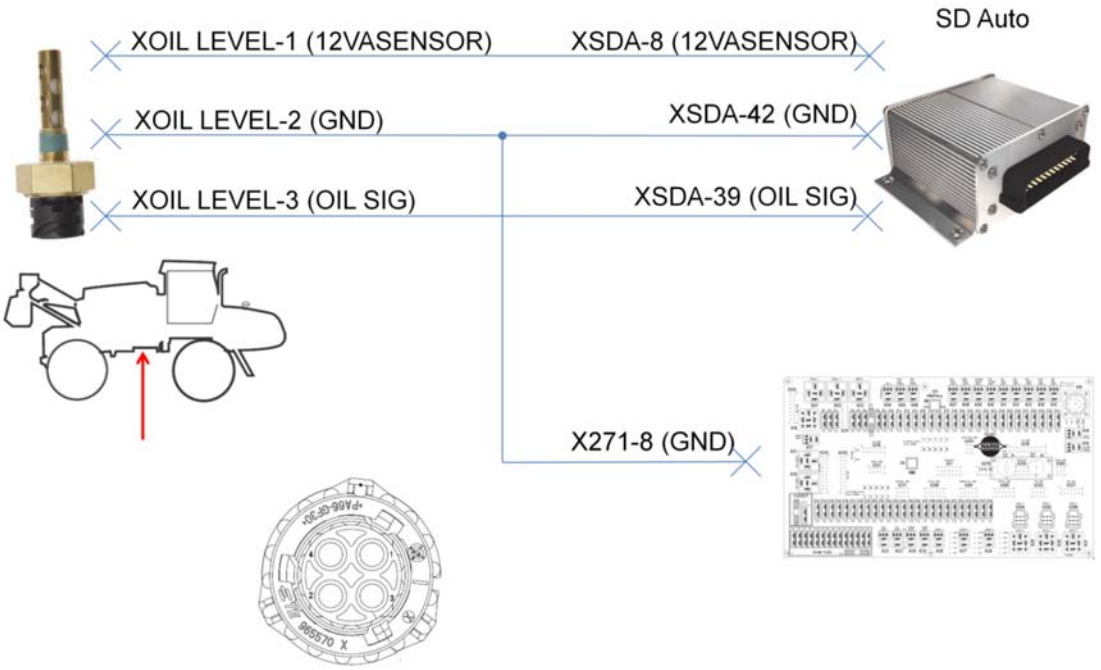
Pin	Description
1	5V
2	GND
4	Signal(0.5-4.5V)

Loop Flushing Temperature Sensor

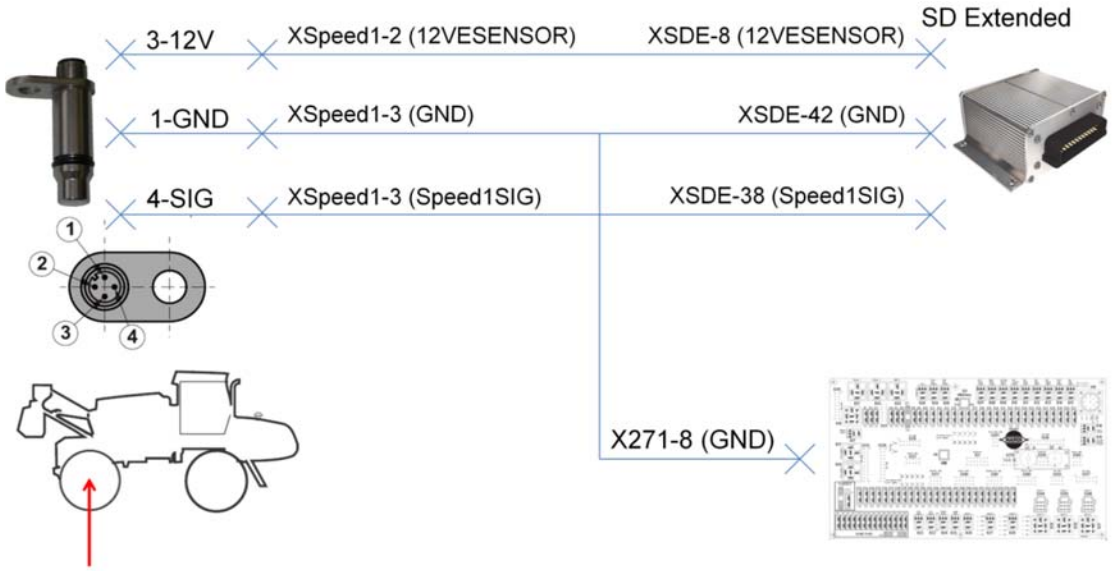


- Sensor is a thermostatic switch that opens at 203°F (95°C)
- When the oil temperature exceeds 203°F (95°C) it opens and puts the transmission in over temperature mode.
- The hydraulic power is limited and an alarm appears on the DP250 screen.
- When the temperature drops to less than 167°F (75°C), the machine operates normally.

Oil Level Sensor

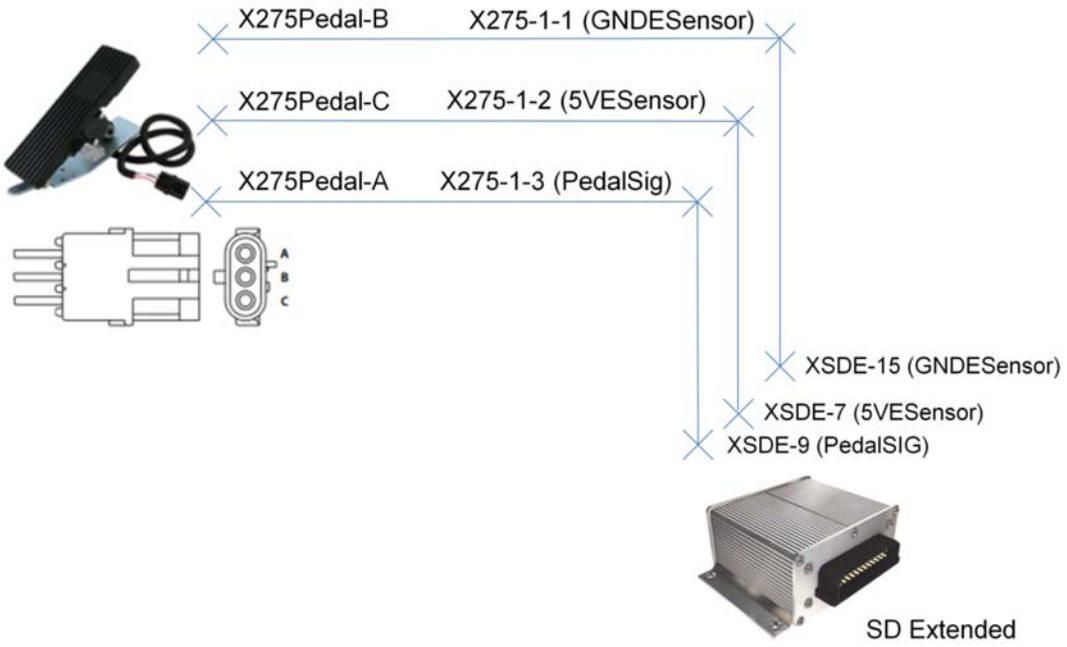


Speed Sensor



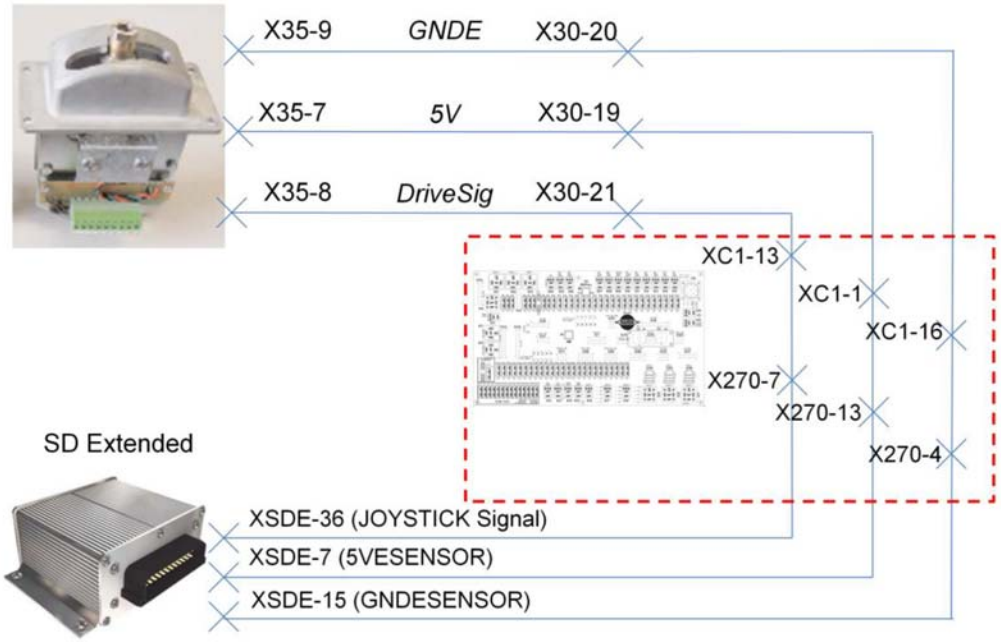
- This sensor calculates the machine's forward speed.
- This sensor is optional for the transmission.
- When the machine isn't equipped with a speed sensor, the displacement speed is calculated by the H1 pump displacement, wheel motor displacement, and the Deutz engine RPM.

Displacement Pedal Sensor



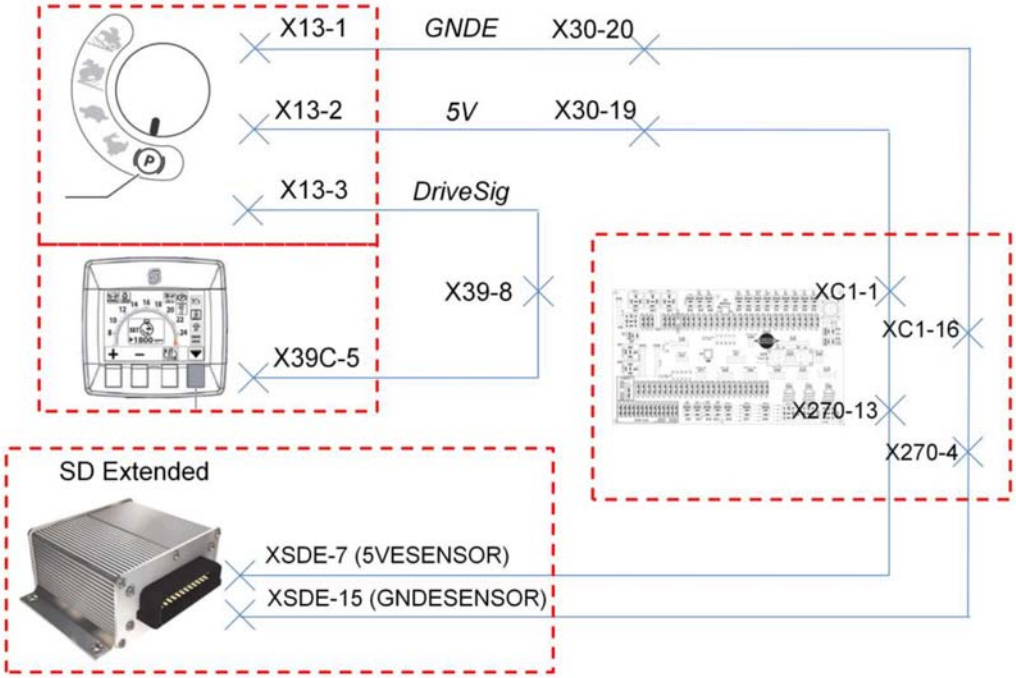
- The signal is between 0.5-4.5V.
- 0.5V when the pedal is released.
- 4.5V when the pedal is depressed.

Manipulator Sensor

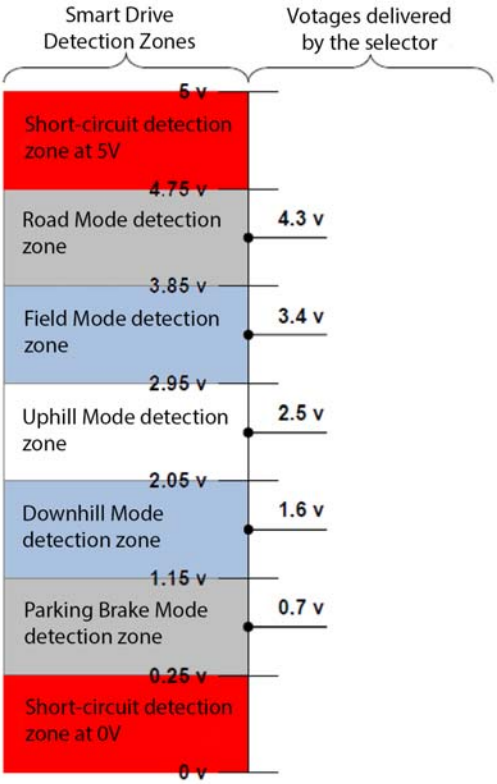


- The signal moves between 0.5V (manipulator in reverse) and 4.5V (manipulator in forward).
- Neutral signal is 2.5V

Speed Selector



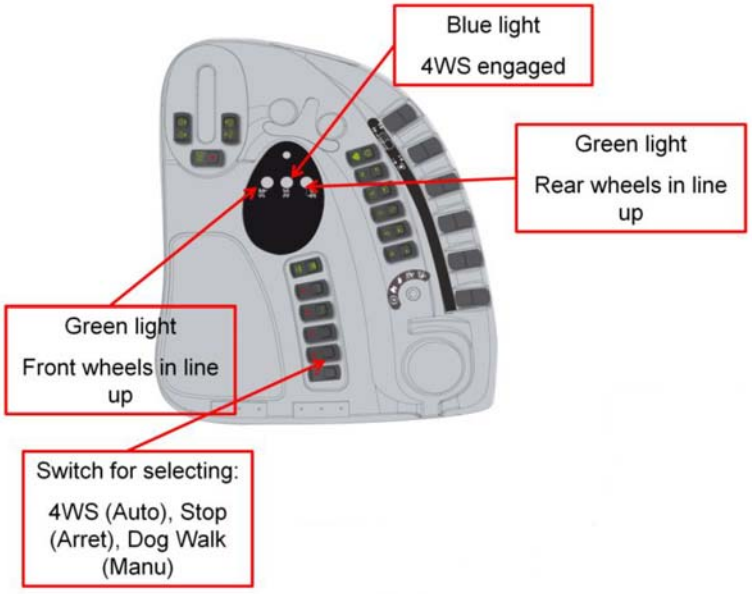
- This selector indicates the speed mode engaged.
- The signal moves between 0.5-4.5V.



4 Wheel Steering (4WS)

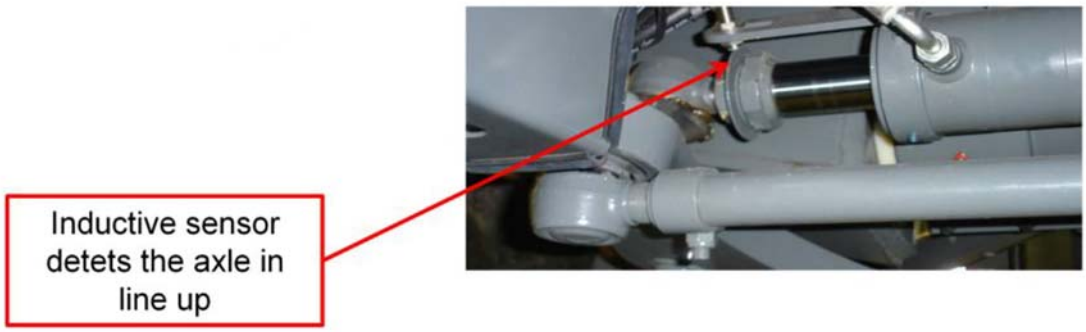
Components

Switch and Indicator Lights

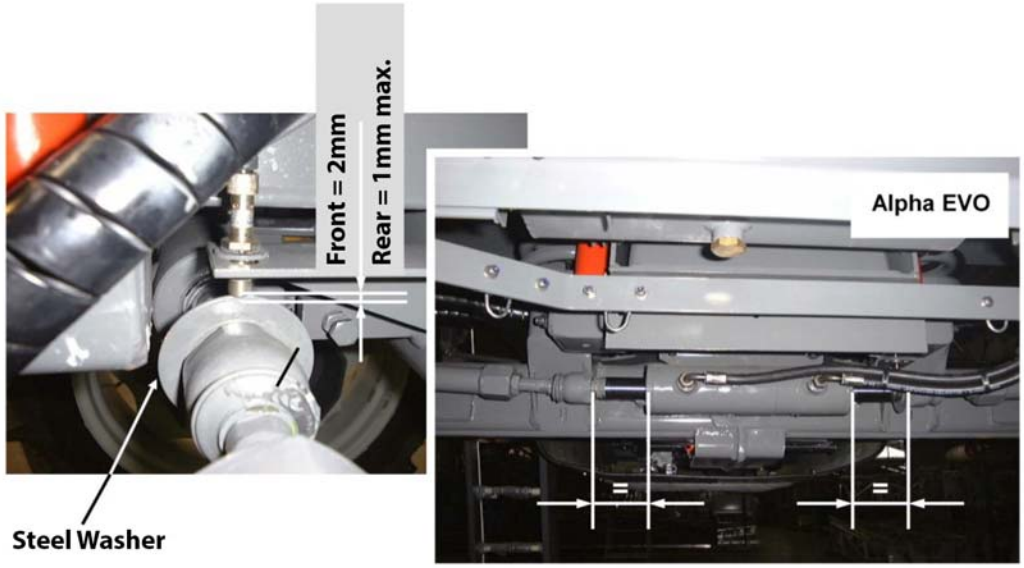


Pedal

Sensor



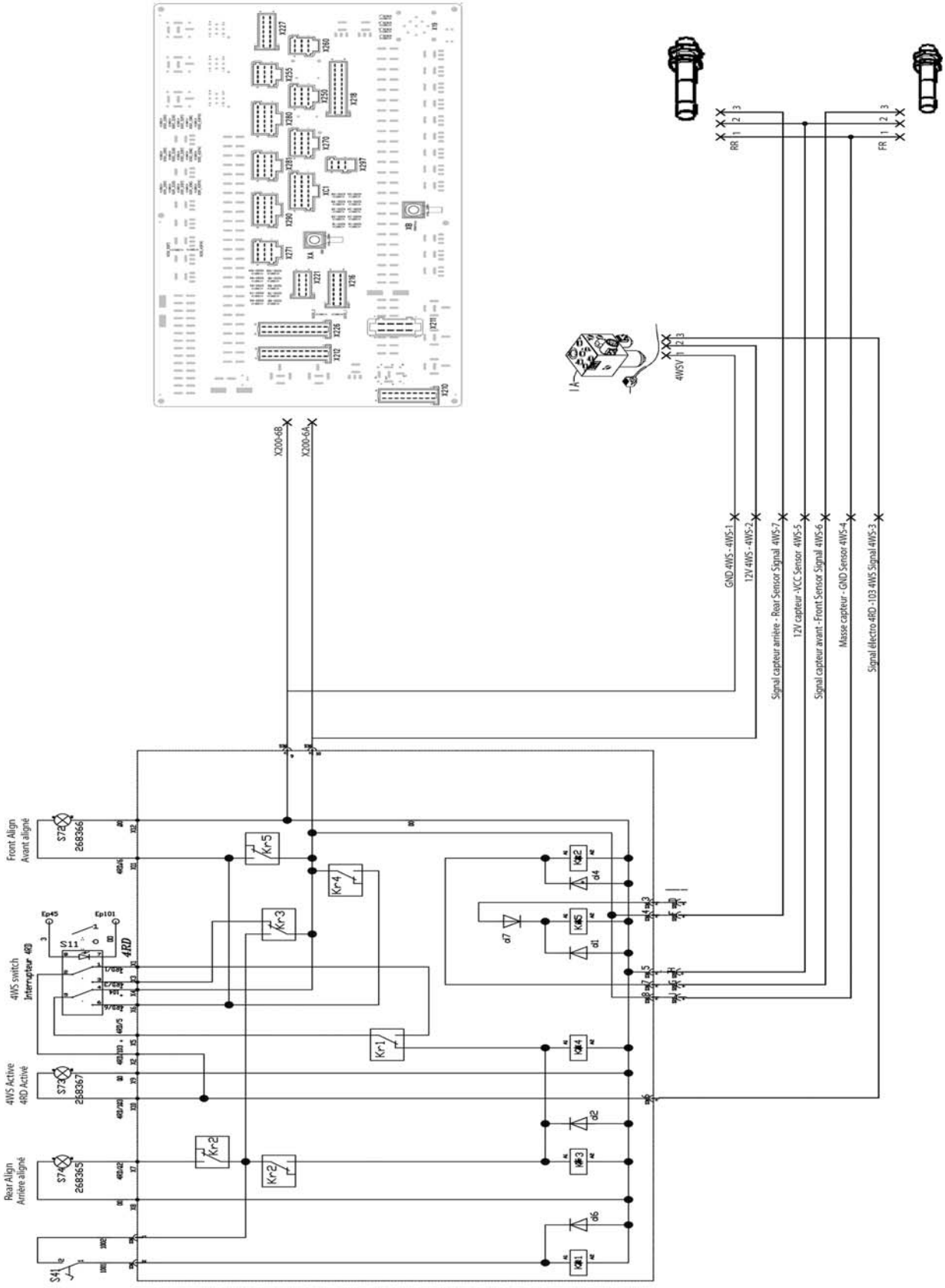
Sensor Adjustment



- Line up the front and rear axles.
- The rods of the cylinders must be the same length.
- Adjust the sensors near the steel washer as shown in the picture above.

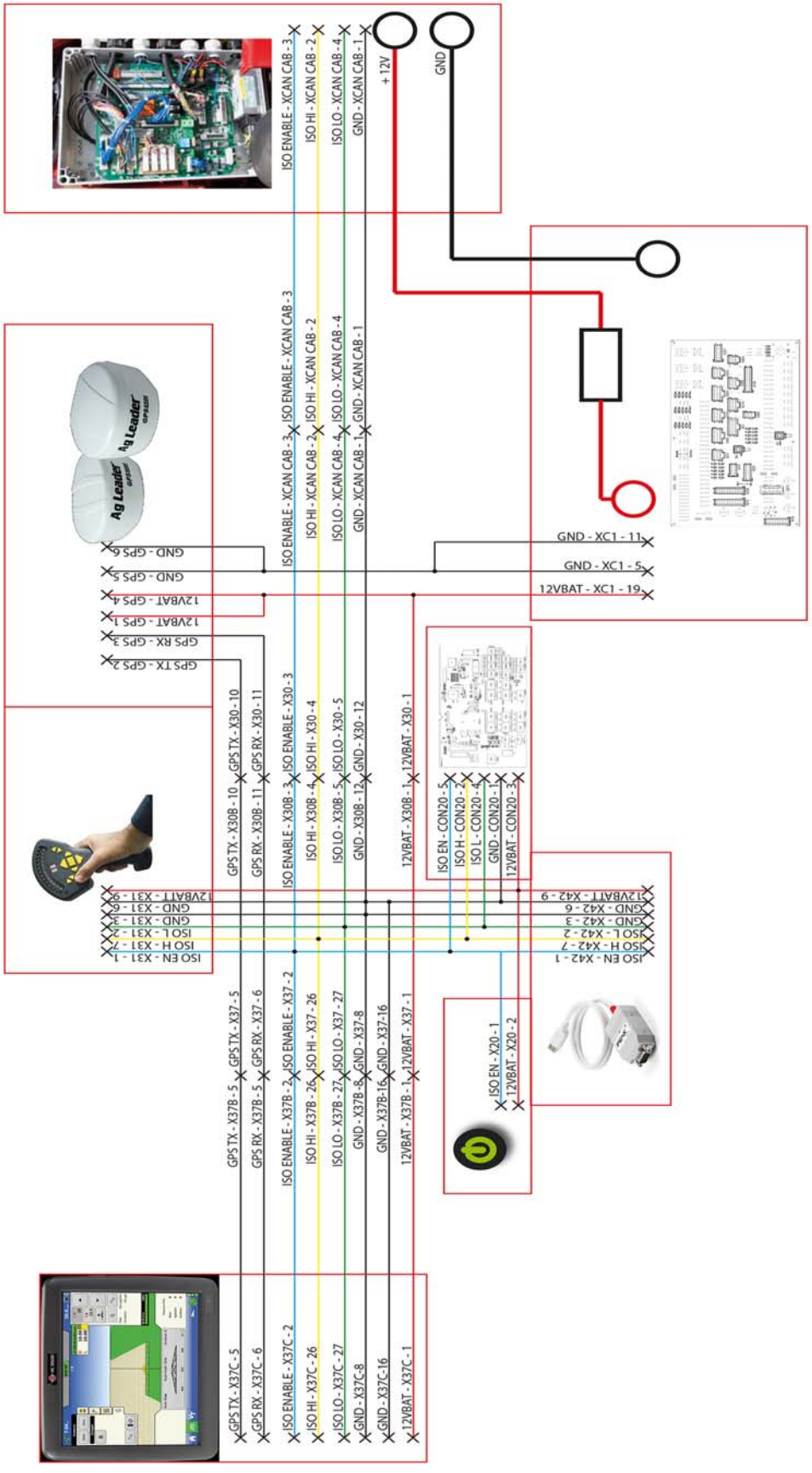
The front and rear sensors do not have the same part number.

Electrical Schematic

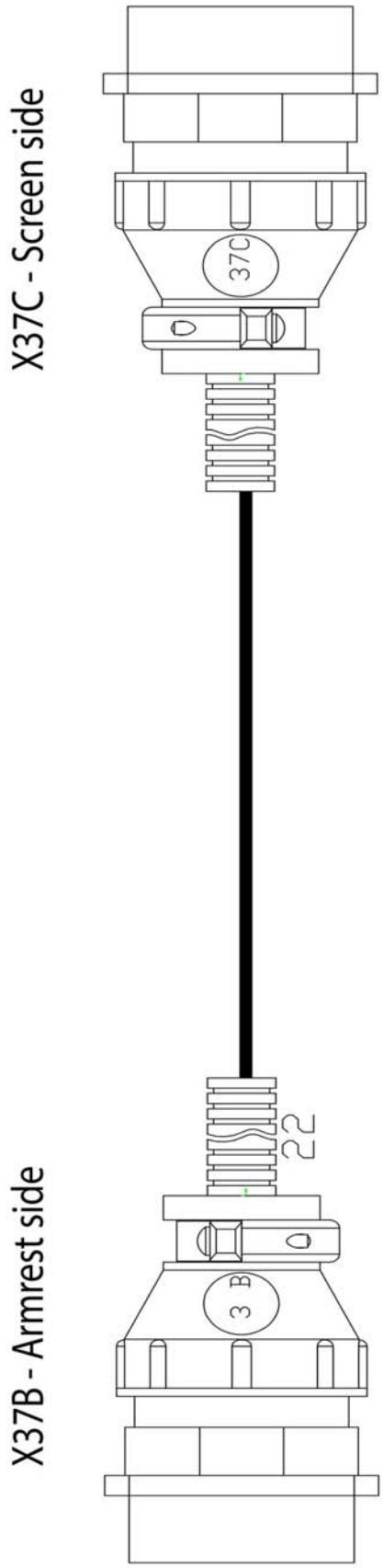


HC9500 to Jobcom Harnesses

HC9500 CanBus



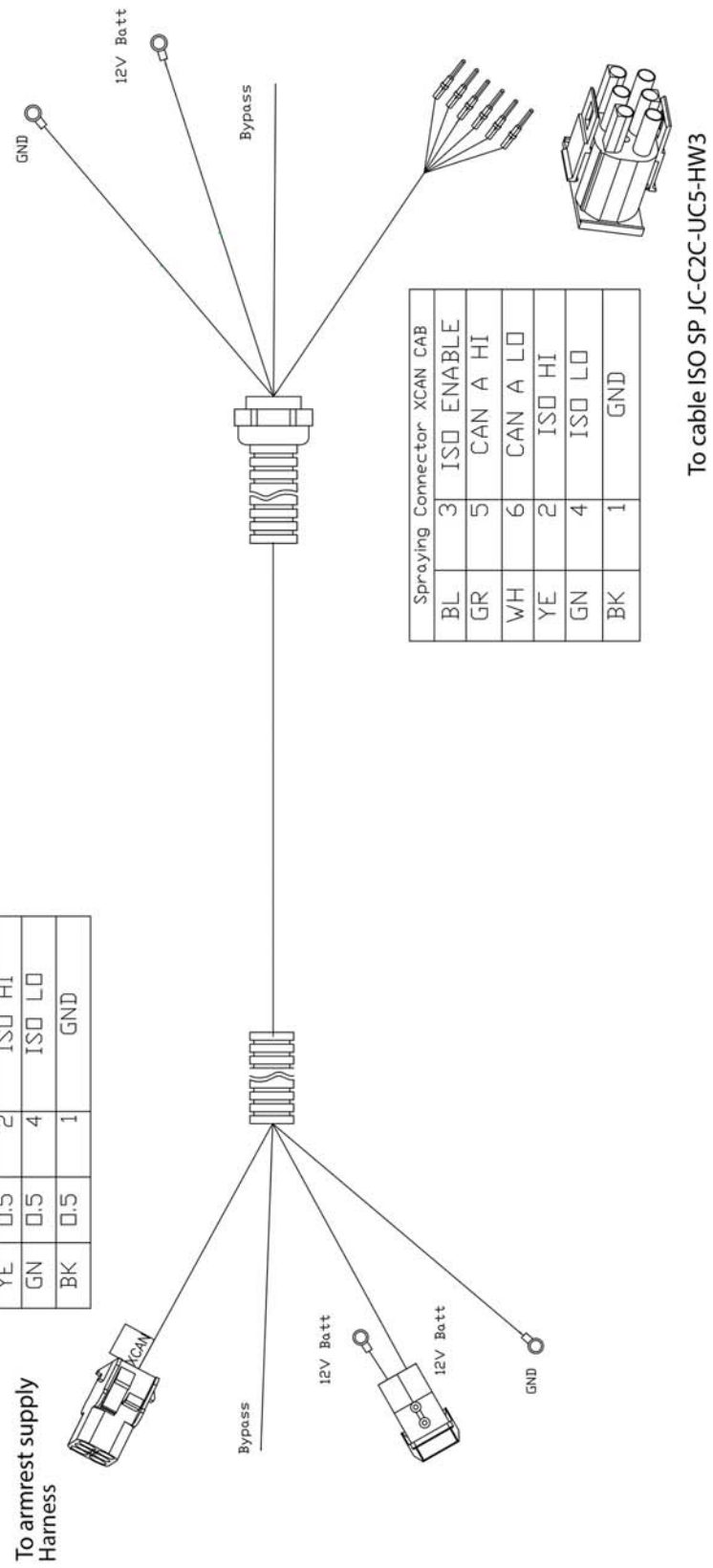
Armrest to HC9500 Cable



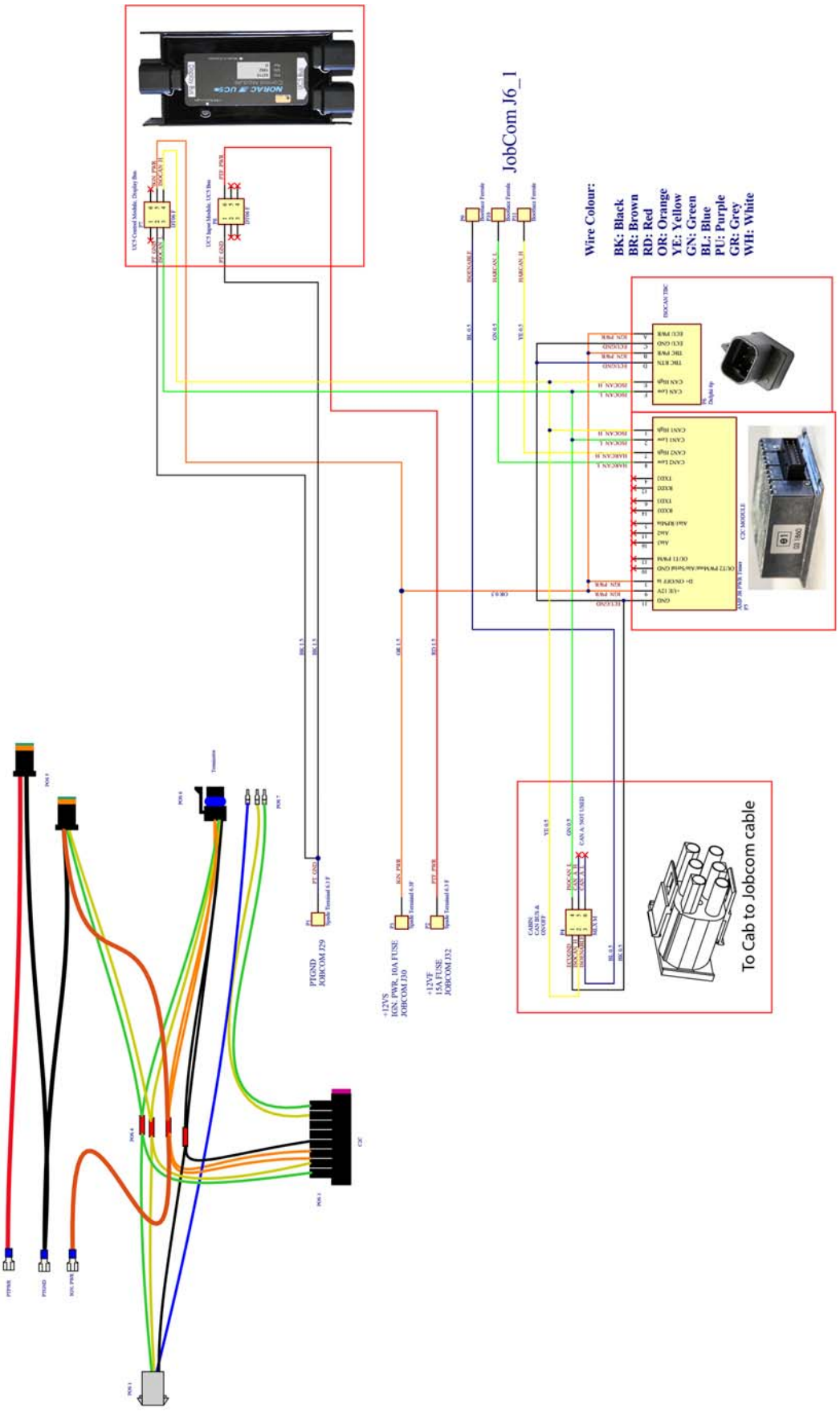
37C		Con out		
Spec		Pin	Con	Pin Section
12V BAT		1	37B	1 0.5
ISO ENABLE		2	37B	2 0.5
NC		3		
NC		4		
GPS RX		5	37B	5 0.5 Td
GPS TX		6	37B	6 0.5 Td
NC		7		
GND		8	37B	8 0.5
ETH RX+		9	37B	9 0.5 Tb
NC		10		
ETH TX+		11	37B	11 0.5 Tb
NC		12		
NC		14		
ETH RX-		15	37B	15 0.5 Tc
GND		16	37B	16 0.5
ETH TX-		17	37B	17 0.5 Tc
NC		18		
NC		19		
NC		20		
CAN A HI		21	37B	21 0.5 Tf
CAN A LO		22	37B	22 0.5 Tf
5V STATUS		23	37B	23 0.5
NC		24		
NC		25		
ISO H		26	37B	26 0.5 Ta
ISO L		27	37B	27 0.5 Ta
GND		28	37B	28 0.5

37B		Con out		
Spec		Pin	Con	Pin Section
12V BAT		1	37C	1 0.5
ISO ENABLE		2	37C	2 0.5
NC		3		
NC		4		
GPS RX		5	37C	5 0.5 Td
GPS TX		6	37C	6 0.5 Td
NC		7		
GND		8	37C	8 0.5
ETH RX+		9	37C	9 0.5 Tb
NC		10		
ETH TX+		11	37C	11 0.5 Tb
NC		12		
NC		14		
ETH RX-		15	37C	15 0.5 Tc
GND		16	37C	16 0.5
ETH TX-		17	37C	17 0.5 Tc
NC		18		
NC		19		
NC		20		
CAN A HI		21	37C	21 0.5 Tf
CAN A LO		22	37C	22 0.5 Tf
5V STATUS		23	37C	23 0.5
NC		24		
NC		25		
ISO H		26	37C	26 0.5 Ta
ISO L		27	37C	27 0.5 Ta
GND		28	37C	28 0.5

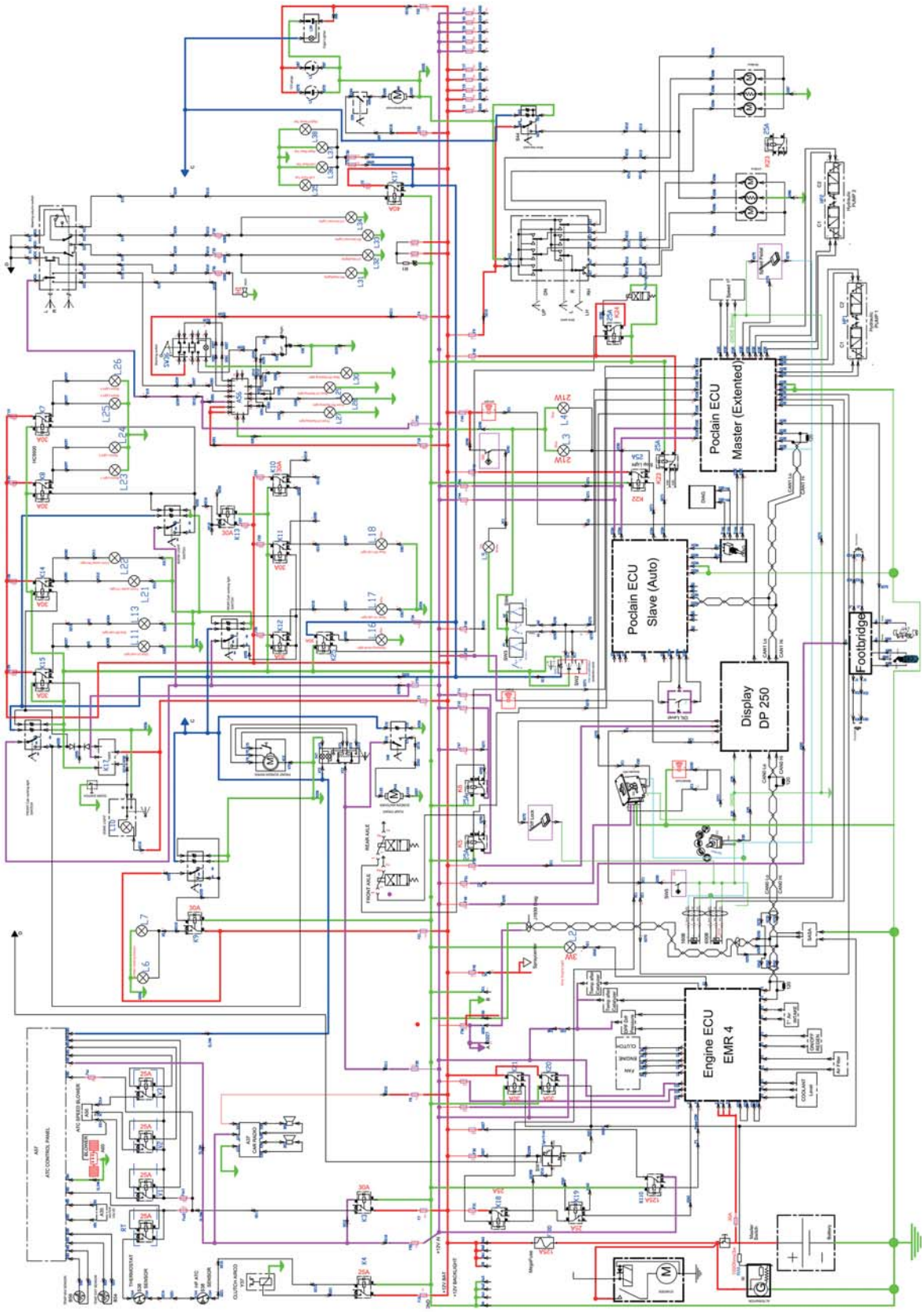
Cab to Jobcom Harness



Jobcom/C2C/UC5 Harness



Electrical Schematic



Warranty policy and conditions

HARDI® NORTH AMERICA INC. , 1500 West 76th Street, Davenport, Iowa, USA hereinafter called "HARDI®", offers the following limited warranty in accordance with the provisions below to each original retail purchaser of its own manufacturer, from an authorized HARDI® dealer that such equipment is at the time of delivery to such purchaser, free from defects in material and workmanship and that such equipment will be warranted for a period of one year from the time of delivery to the end user, providing the machine is used and serviced in accordance with the recommendations in the Operator's Manual and is operated under normal farm conditions.

HARDI®'s extended standard 3 year warranty and optional 5 year warranty is underwritten by Ag Guard, 21295 Hollingsworth Road, Tonganoxie, KS 66086, AgGuard.com. All warranty decisions after the first year are at the sole discretion of Ag Guard.

Standard 3 year and optional 5 year self-propelled warranty.

POWER TRAIN covers components that produce, transmit or control engine horsepower for propelling the machine (e.g. engine, engine electronic controls/sensors, turbo, water pump, fuel injection, drive-line couplers/shafts, U-joints, transfer gears, differential, transmission, final drives, axles, hydro, creeper, PTO, etc.).

POWER TRAIN + HYDRAULIC SYSTEMS includes Power train coverage plus hydraulic systems, parts and components associated with steering and implement control (e.g. tanks, pumps, coolers, motors, controls, sensors, valves, cylinders, accumulators, hoses/lines, couplers, swivels, filter bases, etc.).

POWER TRAIN + HYDRAULIC SYSTEMS + PLATFORM includes Power train + Hydraulic Systems coverage plus additional mechanical, electrical and structural components..

Model	Coverage	Terms	Hours	Deductible
Alpha	PT & Hydraulics	3 Years	1,000	$500.00
Alpha	PT & Hydraulics	5 years	2,000	$500.00
SARITOR	PT & Hydraulics	3 years	1,000	$500.00
SARITOR	PT & Hydraulics	5 Years	2,000	$500.00
PRESIDIO	PT & Hydraulics	3 Years	1,000	$500.00
PRESIDIO	PT & Hydraulics	5 Years	2,000	$500.00

1. This limited warranty is subject to the following exceptions:

   a) Parts of the machine not manufactured by HARDI®, (i.e. engines, tires, tubes, electronic controls and other components or trade accessories, etc.) are not covered by this warranty but are subject to the warranty of the original manufacturer. Any claim falling into this category will be taken up with the manufacturer concerned.

   b) This warranty will be withdrawn if any equipment has been used for purposes other than for which it was intended or if it has been misused, neglected, or damaged by accident, let out on hire or furnished by a rental agency. Nor can claims be accepted if parts other than those manufactured by HARDI® have been incorporated in any of our equipment. Further, HARDI® shall not be responsible for damage in transit or handling by any common carrier and under no circumstances within or without the warranty period will HARDI® be liable for damages of loss of use, or damages resulting from delay or any consequential damage.

2. We cannot be held responsible for loss of livestock, loss of crops, loss because of delays in harvesting or any other expense or loss incurred for labor, supplies, substitute machinery, rental for any other reason, or for injuries either to the owner or to a third party, nor can we be called upon to be responsible for labor charges, other than originally agreed, incurred in the removal or replacement of components.

3. The customer will be responsible for and bear the costs of:

   a) Normal maintenance such as greasing, maintenance of oil levels, minor adjustments including the boom.

   b) Transportation of any HARDI® product to and from where the warranty work is to be performed.

   c) Dealer travel time to and from the machine or to deliver and return the machine from the service workshop for repair unless otherwise dictated by state law.

   d) Dealer traveling costs.

4. Parts defined as normal wearing items, (i.e. Tires, Valves and O-rings) are not in any way covered under this warranty.

5. This warranty will not apply to any product which is altered or modified without the express written permission of the HARDI® Service and Engineering Departments and/or repaired by anyone other than an Authorized HARDI® Dealer.

6. Warranty is dependent upon the strict observance by the purchaser of the following provisions:

   a) That this warranty may not be assigned or transferred to anyone.

   b) That the Warranty Registration Certificate has been correctly completed by dealer and purchaser with their names and addresses, dated, signed and returned to the appropriate address as given on the Warranty Registration Certificate within 30 days of delivery to the purchaser.

   c) That all safety instructions in the operator's manual shall be followed and all safety guards regularly inspected and replaced where necessary.

7. This warranty is non-transferable.

8. Subject to the following terms, conditions and contributions, HARDI® extends the warranty on polyethylene tanks (excluding fittings, lids and gaskets) to FIVE YEARS. To qualify for this extended warranty, the tank must be drained and flushed with fresh water after each day's use. HARDI®'s liability is limited to replacement of defective parts FOB our plant in Davenport, IA at no cost to the purchaser for the first twelve months after date of purchase; at 20% of the then current retail price during the second year; at 40% during the third year; at 60% during the fourth year; and at 80% during the fifth year. This extended warranty is subject, in each instance, to the tank being inspected and approved for replacement or repair by HARDI® personnel before HARDI® will accept any liability hereunder.

9. HARDI® reserves the right to incorporate any change in design in its products without obligation to make such changes on units previously manufactured.

10. The judgement of the HARDI® Service Department in all cases of claims under this warranty shall be final and conclusive and the purchaser agrees to accept its decisions on all questions as to defect and the repair or exchange of any part or parts.

11. No employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by the CEO of HARDI® NORTH AMERICA INC. Approval of warranty is the responsibility of the HARDI® Service Department.

12. Any warranty work performed which will exceed $1000.00 MUST be approved IN ADVANCE by the Service Department. Warranty claims filed without prior approval will be returned.

13. ANY pump replacement MUST be approved by the HARDI® Service Department.

14. Claims under this policy MUST be filed with the HARDI® Service Department within thirty (30) days of when the work is performed or warranty shall be void unless prior arrangements are made.

15. Parts which are requested for return by the HARDI® Service Department must be returned prepaid within thirty (30) days for warranty settlement.

16. Warranty claims must be COMPLETELY filled out including part numbers and quantities or claims will be returned to the submitting dealer.

DISCLAIMER OF FURTHER WARRANTY

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH ABOVE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE PRODUCT CONTAINED HEREIN. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES (SUCH AS LOSS OF ANTICIPATED PROFITS) IN CONNECTION WITH THE RETAIL PURCHASER'S USE OF THE PRODUCT.