

CLAAS



TUCANO 480 / 470

Technical systems

SERVICE & PARTS

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Legend

Item	Component	Remark
CAN 0	Vehicle CAN	Vehicle CAN
CAN 1	J1939	J1939-CAN
DC Bus	Internal engine control CAN BUS	-
T signal	Clocked signal	Safety-relevant functions / operation
-	-	-
-	-	-
A015	Engine control module	ECM
A017	Adaptive drive module	ADM
A030	CEBIS terminal	-
A069	Vehicle base module	VBM
A074	Warning lights module	WLM
A075	Operating panel module	OPM
-	-	-
B154	Engine speed adjustment set value sensor	-
-	-	-
G002	Alternator	-
-	-	-
M021	Electric starting motor	-
-	-	-
S052	Road travel switch	-
S064	Ignition switch	-
S250	Threshing mechanism ON / OFF switch	-
-	-	-
Z032	Min. coolant level actual value switch	-
Z057	Ground speed control lever neutral actual value switch	-
Z069	Air filter maintenance actual value switch	-
Z041	Road travel engine speed reduction actual value switch	-

Legend for overview of functions

Item	Component	Remark
A069	Vehicle base module	VBM
-	-	-
B043	Fuel level sensor	-
B154	Engine speed adjustment set value sensor	-
-	-	-
Y091	Additional fuel tank solenoid coil	only for type 840

Measured value table

Item	Component	Measured value	Remark
B043	Sensor	12V	Supply (pin 1-3)
		0.25 - 4.45 V	Signal (linear, pin 1-2)
B154	Engine speed adjustment sensor	1.5V	Idle speed
		2.5V	Half throttle
		3.5V	Max. no-load speed
Y091	Solenoid coil	approx. 17 Ω	See lettering

Description of function

Additional fuel tank

When a level of <25% and >10% in the main fuel tank is detected (B043) with the diesel engine running at max. no-load speed, the vehicle base module (A069, VBM) actuates the additional fuel tank valve (Y091). Fuel can flow from the additional tank into the main tank.

The additional fuel tank valve (Y091) is deenergised again when the level in the main fuel tank is above 95%.

Item	Component
1002	Pressure filter (10µm)
2007	Ground drive fixed-displacement motor (HMF 105)
2009	Ground drive charge pump (22.5 cm ³ , 24 ⁺⁴ bar)
2011	Ground drive variable-displacement pump (HPV 135 / HPV 105)
3013	Ground drive pump servo-control hydraulic cylinder
4012	Orifice plate M Ø 2.0 mm
6006	Ground drive control pressure control valve
7010	Ground drive filter bypass valve (2 bar Δp)
7013	Ground drive reverse multifunction valve (420 bar)
7014	Ground drive forward multifunction valve (420 bar)
7016	Ground drive charge pressure relief valve (24 bar)
7018	Ground drive feed circuit cold start injector (32 bar)
7019	Ground drive flush pressure control valve
7021	Ground drive flush-out shuttle valve
9002	Ground drive hydraulics high pressure reverse measuring point
9003	Ground drive hydraulics high pressure forward measuring point

4-Trac

Function diagram, neutral

Designations

Item	Component	Remark
I	Main valve block	-
-	-	-
6014	Front attachment lower flow control valve	5 - 50 l/min
7003	Working hydraulics pressure relief valve	180 ⁺¹⁰ bar
7032	Non-return valve	-
7043	Lower front attachment hydraulic valve	-
9001	Working hydraulics measuring point	-
-	-	-
Y077	Working hydraulics master valve solenoid coil	-
Y085	Raise front attachment solenoid coil	-
Y087	Lower front attachment solenoid coil	-
-	-	-
e	Pilot spool	-
F	Pressure spring	-
H	Raise front attachment spool	-
K	Front attachment quick lower ram	-
L	Lower front attachment spool	-
R	Control spool	-
U	Master valve spool	-
V	Pilot valve	-

Item	Component	Remark
VII	Low-pressure hydraulic system valve block	-
-	-	-
Y021	Threshing mechanism clutch solenoid coil	-
Y035	Grain tank unloading solenoid coil	-
Y088	Front attachment clutch solenoid coil	proportional
-	-	-
S	Emergency actuation screw	-

Designations

Item	Component	Remark
I	Main valve block	-
III	AUTOCONTOUR / reversing valve block	-
IV	Front attachment dampening valve block	-
V	Steering (Orbitrol) valve block	-
VI	Autopilot valve block	-
IX	Grain tank unloading tube valve block	-
X	Threshing drum variable-speed drive valve block	-
-	-	-
A	- see Hydrostatic ground drive type 83x circuit diagram - see Hydrostatic ground drive type 840 circuit diagram	0747017.0 0747021.0
b1	- see Hydrostatic ground drive type 83x circuit diagram - see Hydrostatic ground drive type 840 circuit diagram	0747017.0 0747021.0
b2	- see Hydrostatic ground drive type 83x circuit diagram - see Hydrostatic ground drive type 840 circuit diagram	0747017.0 0747021.0
C	- see Hydrostatic ground drive type 83x circuit diagram - see Hydrostatic ground drive type 840 circuit diagram - see Low-pressure hydraulic system circuit diagram	0747017.0 0747021.0 0747018.0
G	- see Front attachment hydraulic system circuit diagrams	-
H	- see Hydrostatic ground drive type 840 circuit diagram	0747021.0
-	-	-
1010	Oil tank	-
1012	Return filter	-
-	-	-
2005	Working hydraulics pump	14 cm ³ /rev
2017	Rotary chaff screen drive pump	5.5 cm ³ /rev
2018	Steering hydraulics pump	11 cm ³ /rev
2026	Front attachment reversing motor	200 cm ³
-	-	-
3005	Right AUTOCONTOUR cross levelling hydraulic cylinder	-
3006	Left AUTOCONTOUR cross levelling hydraulic cylinder	-
3011	Threshing drum variable-speed drive hydraulic cylinder	-
3020	Swing grain tank unloading tube hydraulic cylinder	-
3023	Steering hydraulics cylinder	-
3051	Raise / lower front attachment hydraulic cylinder	-
3053	Reverse front attachment hydraulic cylinder	-

Item	Component	Remark
-	-	-
4008	Orifice plate H Ø 1.2 mm	-
4010	Orifice plate K Ø 1.5 mm	-
4041	Rotary coupling	-
-	-	-
5002	AUTOCONTOUR / cross levelling accumulator	-
5003	AUTOPILOT pressure accumulator	-
5008	Front attachment dampening pressure accumulator	depending on front attachment 25 - 85 bar
-	-	-
6003	AUTOCONTOUR / cross levelling balance screw	-
6004	AUTOPILOT balance screw	-
6009	Orbitrol steering system rotary valve	-
6014	Front attachment lower flow control valve	5 - 50 l/min
-	-	-
7003	Working hydraulics pressure relief valve	180 ⁺¹⁵ bar
7025	Steering double shock valve	-
7026	Steering pressure relief valve	-
7032	Non-return valve	-
7034	Lock-up valve unit	-
7040	AUTOCONTOUR cross levelling flow control valve	-
7043	Lower front attachment hydraulic valve	-
7059	One-way restrictor, two-sided	-
7076	Reversing connecting valve	-
-	-	-
8001	Quick release coupling	-
8011	Front attachment multi-coupling	-
-	-	-
9001	Working hydraulics measuring point	-
9009	Steering hydraulics measuring port	-
-	-	-
B002	Ground pressure sensor	-
B005	Working hydraulics / Autopilot pressure sensor	-
-	-	-
Y009	Autopilot left solenoid coil	-

Item	Component	Remark
A	- see Working hydraulics circuit diagram	0747015.0
b1	- see Working hydraulics circuit diagram	0747015.0
b2	- see Working hydraulics circuit diagram	0747015.0
C	- see Working hydraulics circuit diagram - see Low-pressure hydraulic system circuit diagram	0747015.0 0747018.0
D	- see Low-pressure hydraulic system circuit diagram	0747018.0
F	- see Low-pressure hydraulic system circuit diagram	0747018.0
-	-	-
1002	Pressure filter	10µm
1009	Hydraulic system oil cooler	-
1010	Oil tank	-
1012	Return filter	-
-	-	-
2003	4-Trac radial piston motor, left	935 cm ³
2004	4-Trac radial piston motor, right	935 cm ³
2005	Working hydraulics pump	14 cm ³ /rev
2007	Ground drive fixed-displacement motor	-
2009	Ground drive charge pump	22.5 cm ³ /rev 24 +4 bar
2011	Ground drive variable-displacement pump	(HPV 135 / HPV 105)
2016	Rotary chaff screen drive motor	11cm ³
2017	Rotary chaff screen drive pump	5.5 cm ³ /rev
2018	Steering hydraulics pump	11 cm ³ /rev
-	-	-
3013	Ground drive pump servo control hydraulic cylinder	-
-	-	-
4012	Orifice plate M Ø 2.0 mm	-
-	-	-
6006	Ground drive servo control hydraulic valve	-
-	-	-
7001	4-Trac flow control valve	-
7002	4-Trac control oil supply shuttle valve	-
7006	Pressure relief valve	150 bar
7010	Ground drive filter bypass valve	Δp=2 bar
7013	Ground drive reverse multifunction valve	420 bar

Item	Component	Remark
7014	Ground drive forward multifunction valve	420 bar
7016	Ground drive charge pressure relief valve	24 bar
7018	Ground drive supply circuit cold-start valve	32 bar
7019	Ground drive flush pressure control valve	10 bar
7021	Ground drive flush-out shuttle valve	-
7074	Pressurising valve	1 bar
7077	4-Trac ON/OFF hydraulic valve	-
-	-	-
9002	Ground drive hydraulics high pressure reverse measuring point	-
9003	Ground drive hydraulics high pressure forward measuring point	-
-	-	-
Y001	4-Trac solenoid coil	-

Seat contact function

Legend for overview of functions

Item	Component	Remark
A009	Autopilot module	Autopilot
A015	Engine control module	ECM
A017	Adaptive drive module	ADM
A025	Sieve adjustment module	SAM
A026	Deflector adjustment module	DAM
A027	Vario cutterbar module	VAR
A030	CEBIS terminal	-
A064	Telemetry module	TSM
A069	Vehicle base module	VBM
A075	Operating panel module	OPM
-	-	-
DM	Daimler engine diagnosis	Plug-in connection
-	-	-
R014	CAN BUS matching resistor	approx. 120 Ω
-	-	-
XD	CAN BUS diagnosis	Plug-in connection
-	-	-
CAN 0	Vehicle CAN	250 KB
CAN 1	J1939	250 KB
CAN 2	Front attachment CAN	50 / 250 KB

Designations

Item	Component
A033	Sidefinder / Pathfinder module

Fuse assignment

	Designation	Value
F001	Air conditioner clutch relay	15 A
F002	Maintenance light	15 A
F003	Instrument lighting	7.5 A
F004	Side light (left)	7.5 A
F005	Side light (right)	7.5 A
F006	Windscreen wiper (front) power supply	15 A
F007	Brake light	15 A
F008	- not used -	15 A
F009	Vehicle lighting	15 A
F010	Pathfinder power supply (+30)	15 A
F011	- not used -	15 A
F012	- not used -	15 A
F013	Stubble lighting	15 A
F014	- not used -	15 A
F015	Dipped beam (right)	15 A
F016	Dipped beam (left)	15 A
F017	Main beam (left)	15 A
F018	Main beam (right)	15 A
F019	Work lights (left inside railing)	20 A
F020	Work lights (right inside railing)	20 A
F021	Work lights (rear of grain tank)	20 A
F022	Work lights (roof, left)	15 A
F023	Work lights (area ahead, left)	20 A
F024	Work lights (area ahead, right)	20 A
F025	Work lights (right outside railing)	20 A
F026	Work lights (outside railing - left)	20 A
F027	- not used -	15 A
F028	Fan power supply	30 A
F029	Mirror power supply	10A
F030	Relay output warning beacon	20 A
F031	Work lights main switch	3 A

	Designation	Value
F032	Work lights (grain tank lighting)	7.5 A
F033	- not used -	15 A
F034	Broadcast receiver (+15)	7.5 A
F035	Turn signal indicator	15 A
F036	Broadcast receiver (+30)	15 A
F037	Hazard warning flasher	15 A

Designations

Module A025 SAM				
Module pin	CCN	Function	Measured variable set value	Direction
1.01	CAN0 low	Vehicle CAN	250k	---
1.02	F083	+12 V electronics	3A	IN
1.03	F071	+12 V power	15 A	IN
1.04	CAN0 high	Vehicle CAN	250k	---
1.05	-32	GND electronics	0 Volt	IN
1.06	-31	GND power	0 Volt	IN
2.01	+5V Ref	+5V reference	5 Volt	OUT
2.02	Coding	+12 V electronics	12 Volt	OUT
2.03	M012	Upper sieve adjustment	0/12 Volt	IN/ OUT
2.04	M023	Lower sieve adjustment	0/12 Volt	IN/ OUT
2.05	M012	Upper sieve adjustment	0/12 Volt	IN/ OUT
2.06	M023	Lower sieve adjustment	0/12 Volt	IN/ OUT
2.07	R037	Upper sieve adjustment signal	0.25 - 4.75 Volt	IN
2.08	R038	Lower sieve adjustment signal	0.25 - 4.75 Volt	IN
2.09	---	GND power (option)	---	---
2.10	-32	GND electronics	0 Volt	OUT
2.11	---	Coding	12 Volt	IN
2.12	---	blank	---	---
2.13	---	Coding	12 Volt	IN
2.14	---	blank	---	---
2.15	U006	Upper sieve adjustment signal (option)	1.25 -3.75 Volt	IN
2.16	U007	Lower sieve adjustment signal (option)	1.25 -3.75 Volt	IN

A069 VBM module				
Mod- ule pin	CCN	Function	Measured variable set value	Direc- tion
2.59	---	Identification of hydraulic reel drive	12 Volt	IN
2.60	B016	Gearbox / Ground speed signal sensor	0.4 volts / 4.6 volts Frequency	IN
2.61	B017	Reel signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.62	B011	Threshing drum signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.63	B012	Feed rake conveyor signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.64	B021	Grain elevator signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.65	B015	Fan signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.66	B029	Returns signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.67	B028	Straw chopper signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.68	B024	Rotor signal Speed of	0.4 volts / 4.6 volts Frequency	IN
2.69	F067	+12 V power	10 A	IN
2.70	F069	+12 V power	10 A	IN

TUCANO Rotor (Type 840)

Designations

Item	Component	Remark
F052	Power supply of angular sensors	7.5A
F053	Power supply of speed sensors	7.5A
F062	Power supply of sensors	7.5A
F064	Power supply of front attachment sensors	7.5A
F087	Diagnostic socket (+30)	10 A

Item	Plug-in connection
FA	Basic central terminal compartment
FAA	Basic central terminal compartment
FAB	Basic central terminal compartment
FDF	Basic central terminal compartment
FE	Basic central terminal compartment
FF	Basic central terminal compartment
FG	Basic central terminal compartment
FH	Basic central terminal compartment
FK	Basic central terminal compartment
FL	Basic central terminal compartment
FMM	Basic central terminal compartment
FP	Basic central terminal compartment
FT	Basic central terminal compartment
FV	Basic central terminal compartment
PM	Patch field
PS	Patch field
PV	Patch field
X7R	Right main wiring loom connector (10 15 150)
X7HR	Rear hood wiring loom connector (10 15 310)
X11S	Rear hood wiring loom connector (10 15 310)
X11T	Chopper wiring loom connector (60 10 860)
X14S	Right main wiring loom connector (10 15 150)
X14T	Autopilot rear wheel position indicator wiring loom connector (05 10 020)
X21S	Left main wiring loom connector (10 15 150)
X21T	RIO module extension wiring loom connector (60 10 860)
XB26	Straw walker speed sensor connector
XB27	Chaff spreader speed sensor connector
XC	Multicoupler connector C

Designations

Item	Component
A069	Vehicle base module
-	-
B012	Feed rake conveyor speed sensor
B021	Grain elevator speed sensor
B024	Rotor speed sensor
B027	Chaff spreader speed sensor
B029	Returns speed sensor
B043	Fuel level sensor
-	-
C036	Steering position (subassembly)
-	-
Z038	Left steering position actual value switch
Z039	Right steering position actual value switch
Z061	Straw jam warning actual value switch

Item	Plug-in connection
FA	Basic central terminal compartment
FAB	Basic central terminal compartment
PM	Patch field
PS	Patch field
X7HR	Rear hood wiring loom connector (10 15 310)
X7R	Right main wiring loom connector (10 15 150)
X8HR	Rear hood wiring loom connector (10 15 310)
X8R	Right main wiring loom connector (10 15 150)
X13S	Right main wiring loom connector (10 15 150)
X13T	Wheel position indicator wiring loom connector (05 10 020)

Designations

Item	Component
A069	Vehicle base module
-	-
B015	Fan speed sensor
-	-
M003	Fan speed adjustment motor

Item	Plug-in connection
FAB	Basic central terminal compartment
FG	Basic central terminal compartment
PH	Patch field

Designations

Item	Component
A069	Vehicle base module
A075	Operating panel module
-	-
S031	Grain tank unloading switch
S087	Grain tank unloading tube swing out switch
S088	Grain tank unloading tube swing in switch
-	-
Y033	Grain tank unloading tube swing-out solenoid coil
Y034	Grain tank unloading tube swing-in solenoid coil
Y035	Grain tank unloading solenoid coil
-	-
Z030	Grain tank unloading tube swung out actual value switch

Item	Plug-in connection
FAB	Basic central terminal compartment
FE	Basic central terminal compartment
PH	Patch field

Designations

Item	Component
S039	Left rape cutter drive switch

Item	Plug-in connection
FP	Basic central terminal compartment
FV	Basic central terminal compartment
XB	Multicoupler, connector B

Designations

Item	Component	Remark
A074	Warning lights module	-
-	-	-
E001	Left dipped beam	-
E002	Top left dipped beam	-
E003	Top right dipped beam	-
E004	Right dipped beam	-
E030	Left main beam	-
E031	Top left main beam	-
E032	Top right main beam	-
E033	Right main beam	-
E050	Left parking light	-
E051	Right parking light	-
-	-	-
F014	Operating panel module	15 A
F015	Right dipped beam	15 A
F016	Left dipped beam	15 A
F017	Left main beam	15 A
F018	Right main beam	15 A
-	-	-
C003	Steering column switch with parking light	-
C012	Top left drive light	-
C013	Top right drive light	-
C014	Bottom left drive light	-
C015	Bottom right drive light	-
-	-	-
H007	Main beam signal indicator	-
-	-	-
K001	Driving lights relay	-
K014	Drive lights / additional drive lights relay	-

Item	Plug-in connection
FB	Basic central terminal compartment
FBB	Basic central terminal compartment
FD	Basic central terminal compartment
FDD	Basic central terminal compartment

Item	Plug-in connection
FL	Basic central terminal compartment
SL	Roof-mounted central terminal compartment
LC	Roof-mounted central terminal compartment
LD	Roof-mounted central terminal compartment
X02S	Front left lighting wiring loom connector (10 20 100)
X02T	Operator's platform lighting wiring loom connector (10 15 330)
X03S	Front right lighting wiring loom connector (10 20 100)
X03T	Operator's platform lighting wiring loom connector (10 15 330)
X04S	Elevated drive lights wiring loom connector (10 20 380)
X04T	Elevated drive lights wiring loom connector (10 20 380)
X05S	Elevated drive lights wiring loom connector (10 20 380)
X05T	Elevated drive lights wiring loom connector (10 20 380)

Designations

Item	Component	Remark
E037	Grain tank lighting	-
E048	Sieve pan lights	-
E049	Returns light	-
-	-	-
F032	Sieve pan lights	7.5A
F073	Returns light	10 A
-	-	-
S147	Returns lighting switch	-
-	-	-
U012	Sieve pan light switch	-

Item	Plug-in connection
FD	Basic central terminal compartment
FDD	Basic central terminal compartment
FK	Basic central terminal compartment
FM	Basic central terminal compartment
FMM	Basic central terminal compartment
LC	Roof-mounted central terminal compartment
X7HR	Rear hood wiring loom connector (10 15 310)
X7R	Right main wiring loom connector (10 15 150)

Designations

Item	Component
A025	Sieve adjustment module
-	-
C018	Lower sieve adjustment motor unit
C019	Upper sieve adjustment motor unit
-	-
M012	Upper sieve adjustment motor
M023	Lower sieve adjustment motor
-	-
R037	Upper sieve adjustment actual value potentiometer
R038	Lower sieve adjustment actual value potentiometer

Item	Plug-in connection
X34S	Sieve adjustment wiring loom connector (43 20 500)
X34T	Sieve adjustment cable extension connector (43 20 500)
X35S	Sieve adjustment wiring loom connector (43 20 500)
X35T	Sieve adjustment cable extension connector (43 20 500)

Designations

Item	Component
A006	Automatic air conditioner module
A007	Cab fan module
A009	Autopilot module
A015	Engine control module
A025	Sieve adjustment module
A026	Deflector adjustment module
A030	CEBIS terminal
A033	Sidfinder module
A069	Vehicle base module
A074	Warning lights module
A075	Operating panel module
A081	Front attachment enable module
-	-
C001	Multifunction handle

Designations

Item	Component	Remark
30_1	Central terminal compartment plus pin	-
30_2	Central terminal compartment plus pin	-
30_3	Central terminal compartment plus pin	-
31_1	Chassis earth	-
31_4	Vehicle earth (threshing drum)	-
31_5	Chassis earth	-
31_6	Vehicle earth	-
31_7	Chassis earth	-
31_8	Chassis earth	-
31_9	Chassis earth	-
31_10	Chassis earth	-
-	-	-
A069	Vehicle base module	-
A074	Warning lights module	-
-	-	-
F085	Ignition switch	7.5A
F089	Alternator (terminal 61)	7.5A
F092	Starter	10A
F101	Vehicle main fuse	200A
F102	Roof-mounted central terminal compartment back-up fuse	125A
F103	Basic central terminal compartment back-up fuse	80A
-	-	-
G001	Battery	-
G002	Alternator	-
-	-	-
K015	Ignition relay	-
K15D	Ignition relay	-
K15DD	Ignition relay	-
K020	Relay CPU off / CPH off	-
K022	Ground speed control lever neutral relay (safety start switch)	-
K023	Main drive relay (safety start switch)	-
K050	Starter relay	-
K061	Time delay relay (61)	-
-	-	-
M021	Electric starting motor	-

Item	Component	Remark
-	-	-
S064	Ignition switch	-
-	-	-
U021	Battery isolating switch	-
-	-	-
Z057	Ground speed control lever neutral	-

Item	Plug-in connection
FA	Basic central terminal compartment
FDF	Basic central terminal compartment
FE	Basic central terminal compartment
FL	Basic central terminal compartment
FH	Basic central terminal compartment
FPP	Basic central terminal compartment
LB	Roof-mounted central terminal compartment
X09S	Ground speed control lever wiring loom (10 35 860)
X09T	Panel wiring loom (10 15 320)

Designations

Item	Component	Remark
A015	Engine control module	-
A017	Adaptive drive module	-
A069	Vehicle base module	-
A074	Warning lights module	-
-	-	-
B154	Engine speed adjustment set value sensor	-
-	-	-
F090	Engine diagnostic socket (+30)	3A
-	-	-
H050	Diesel engine monitoring signal light	-
-	-	-
Z032	Min. coolant level actual value switch	-
Z041	Road travel engine speed reduction actual value switch	-
Z069	Air filter maintenance actual value switch	-

Item	Plug-in connection
DM	Daimler engine diagnosis
FAB	Basic central terminal compartment
FE	Basic central terminal compartment
FG	Basic central terminal compartment
FL	Basic central terminal compartment
FP	Basic central terminal compartment
PE	Patch field

Designations

Item	Component
A069	Vehicle base module
-	-
B123	Hydraulic oil temperature sensor
-	-
Y077	Working hydraulics master valve solenoid coil
-	-
Z019	Min. hydraulic oil level actual value switch

Item	Plug-in connection
FAA	Basic central terminal compartment
FAB	Basic central terminal compartment
FG	Basic central terminal compartment
PE	Patch field
PH	Patch field

Designations

Item	Component
A069	Vehicle base module
-	-
B031	Cleaning system sensor
B032	Residual separation sensor

Item	Plug-in connection
PM	Patch field
X7HR	Rear hood wiring loom connector (10 15 310)
X7R	Right main wiring loom connector (10 15 150)

Designations

Item	Component	Remark
A069	Vehicle base module	-
-	-	-
E083	Cab left warning beacon	-
E084	Cab right warning beacon	-
E085	Rear warning beacon	-
-	-	-
F030	Warning beacon fuse	20 A
-	-	-
K010	Grain tank fill indicator 70% relay	-
K011	Warning beacon relay	-
-	-	-
S040	Warning beacon switch	-
-	-	-
Z027	Grain tank 100% full indicator actual value switch	-
Z028	Grain tank 70% full indicator actual value switch	-

Item	Plug-in connection
FA	Basic central terminal compartment
FD	Basic central terminal compartment
FDF	Basic central terminal compartment
FK	Basic central terminal compartment
FM	Basic central terminal compartment
SL	Roof-mounted central terminal compartment
LC	Roof-mounted central terminal compartment
LE	Roof-mounted central terminal compartment
LK	Roof-mounted central terminal compartment
PK	Patch field
X7HR	Rear hood wiring loom connector (10 15 310)
X7R	Right main wiring loom connector (10 15 150)
X26S	Cab lighting wiring loom connector (10 15 342)
X26T	Right warning beacon connecting cable connector (10 20 300)
X27S	Cab lighting wiring loom connector (10 15 342)
X27T	Left warning beacon connecting cable connector (10 20 300)

Designations

Item	Component	Remark
A009	Autopilot module	-
A069	Vehicle base module	-
A075	Operating panel module	-
-	-	-
B005	Working hydraulics / Autopilot pressure sensor	-
B006	Autopilot steering angle sensor	-
B083	Autopilot overrider switch OFF	-
-	-	-
F075	Autopilot	15 A
-	-	-
S009	Autopilot ON switch	-
-	-	-
R003	Autopilot centralizing switch set value potentiometer	-
-	-	-
Y009	Autopilot left solenoid coil	-
Y010	Autopilot right solenoid coil	-

Item	Plug-in connection
FF	Basic central terminal compartment
FL	Basic central terminal compartment
FMM	Basic central terminal compartment
FP	Basic central terminal compartment
FT	Basic central terminal compartment
FV	Basic central terminal compartment
PV	Patch field
X14S	Right main wiring loom connector (10 15 150)
X14T	Autopilot rear wheel position indicator wiring loom connector (05 10 020)
XB	Multicoupler, connector B
XC	Multicoupler connector A
XS10	Panel wiring loom connector (Autopilot main switch)
XS96	Panel wiring loom connector (Autopilot right / left)

Designations

Item	Component	Remark
A033	Sidefinder module	-
-	-	-
E035	Instrument lighting	-
-	-	-
F003	Instrument lighting	7.5A
-	-	-
S001	4-Trac switch	-
S034	Maize header folding switch	-
S039	Left rape cutter drive switch	-
S050	Mirror adjustment switch	-
S052	Road travel switch	-
S057	Front attachment reverse switch	-
S069	Cross levelling / table adjustment function selection switch	-
S147	Returns lighting switch	-

Item	Plug-in connection
FDD	Basic central terminal compartment
FP	Basic central terminal compartment
LB	Roof-mounted central terminal compartment
LF	Roof-mounted central terminal compartment
LG	Roof-mounted central terminal compartment
X01S	Rear cab operating panel wiring loom connector (10 15 342)
X01T	Interior lighting wiring loom connector (10 15 342)
XS10	Panel wiring loom connector (Autopilot main switch)
XS96	Panel wiring loom connector (Autopilot right / left)

Designations

Item	Component	Remark
C016	Left cab speaker	-
C017	Right cab speaker	-
C023	Broadcast receiver	-
C031	Cab interior light	-
C037	Driver's seat	-
-	-	-
E034	Interior lighting	-
E038	Reading light	-
E061	External console light	-
-	-	-
F034	Broadcast receiver (+15)	7.5A
F036	Broadcast receiver (+30)	15 A
F059	Seat compressor	15 A
-	-	-
M008	Operator's seat compressor	-
M043	Seat ventilation motor	-
M044	Lumbar support compressor	-
-	-	-
R085	Seat heater	-
-	-	-
S027	Interior lighting switch	-
S033	Reading lamp switch	-
-	-	-
W003	Broadcast receiver antenna	-
-	-	-
XR1	12V Broadcast receiver	-
-	-	-
Z005	Seat contact	-

Item	Plug-in connection
LH	Roof-mounted central terminal compartment
X01S	Rear cab operating panel wiring loom connector (10 15 342)
X01T	Interior lighting wiring loom connector (10 15 342)

Item	Plug-in connection
FP	Basic central terminal compartment
FPP	Basic central terminal compartment
LE	Roof-mounted central terminal compartment
LF	Roof-mounted central terminal compartment

Designations

Item	Component
A026	Deflector adjustment module
A075	Operating panel module
-	-
C024	Deflector adjustment motor unit
-	-
M022	Deflector adjustment motor
-	-
R028	Spreading direction actual value potentiometer
R029	Spreading direction set value potentiometer

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Designations

Item	Plug-in connection
-	-

Designations

Item	Plug-in connection
-	-

Designations

Item	Component
C025	Front left flashing position light
C026	Front right flashing position light

Designations

Item	Component
U035	MaxFlex lock switch
U036	MaxFlex unlock switch
U037	MaxFlex locking OFF switch
Y272	MaxFlex cutting table lock solenoid coil
Y273	MaxFlex cutting table unlock solenoid coil

Folding cutterbar (type 713)

Designations

Item	Component
C027	Front attachment left flashing position light
C028	Front attachment right flashing position light

Designations

Item	Component
Y053	Left rape cutter ON/OFF solenoid coil

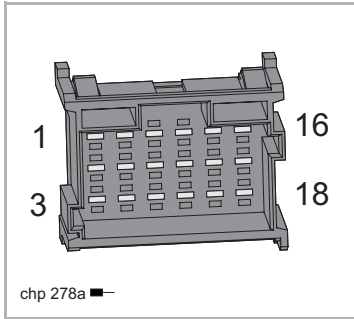
Designations

Item	Component
B003	Left CAC sensor band sensor
B004	Right CAC sensor band sensor

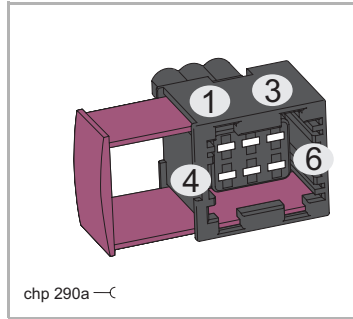
Designations

Item	Component
B003	Left CAC sensor band sensor
B004	Right CAC sensor band sensor

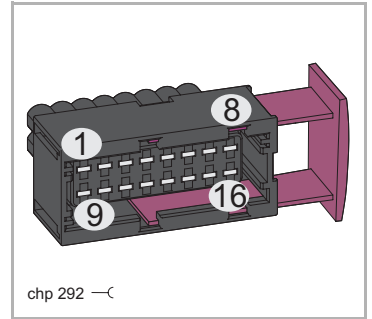
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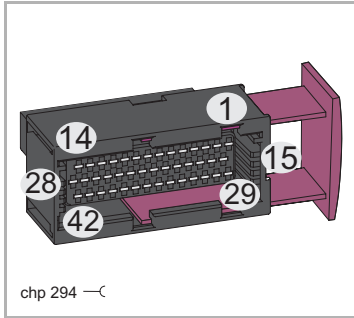
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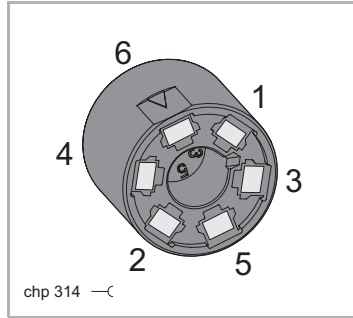
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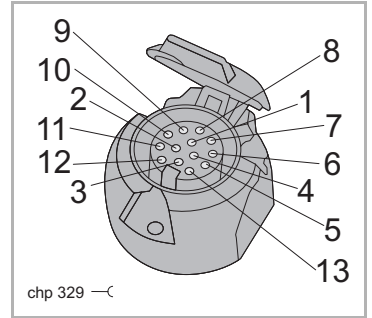
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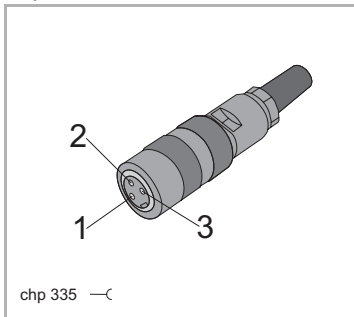
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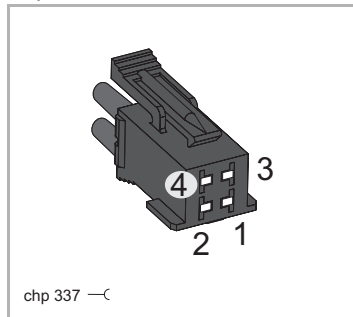
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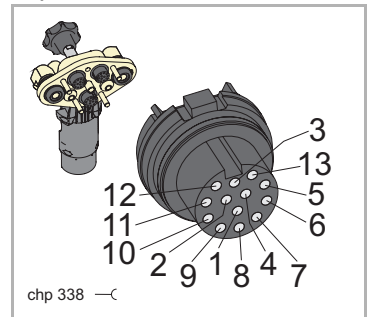
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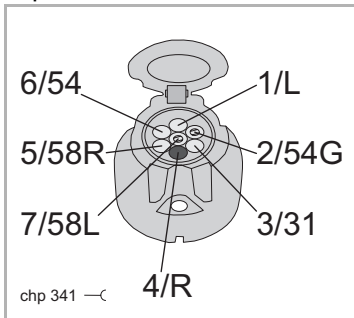
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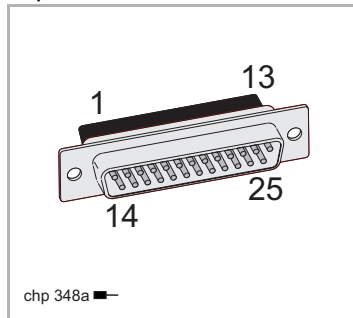
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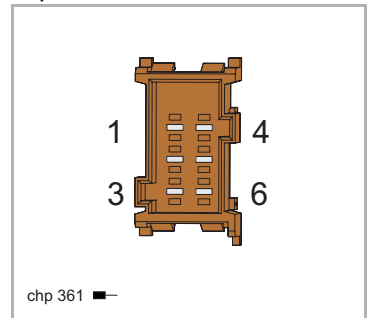
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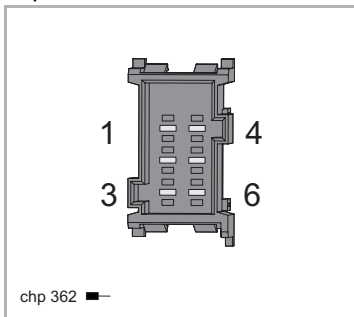
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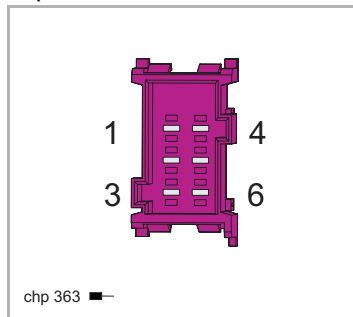
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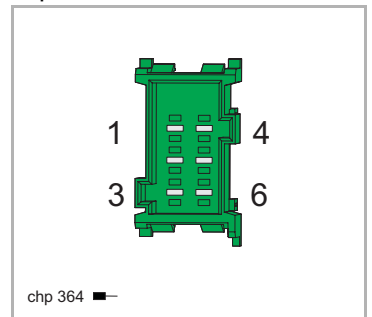
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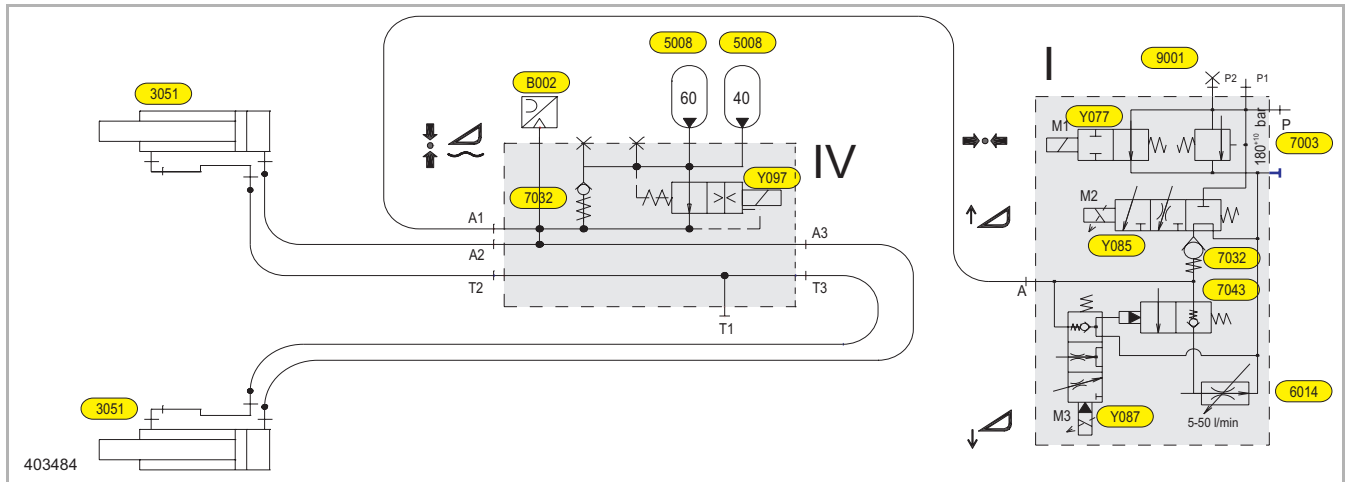


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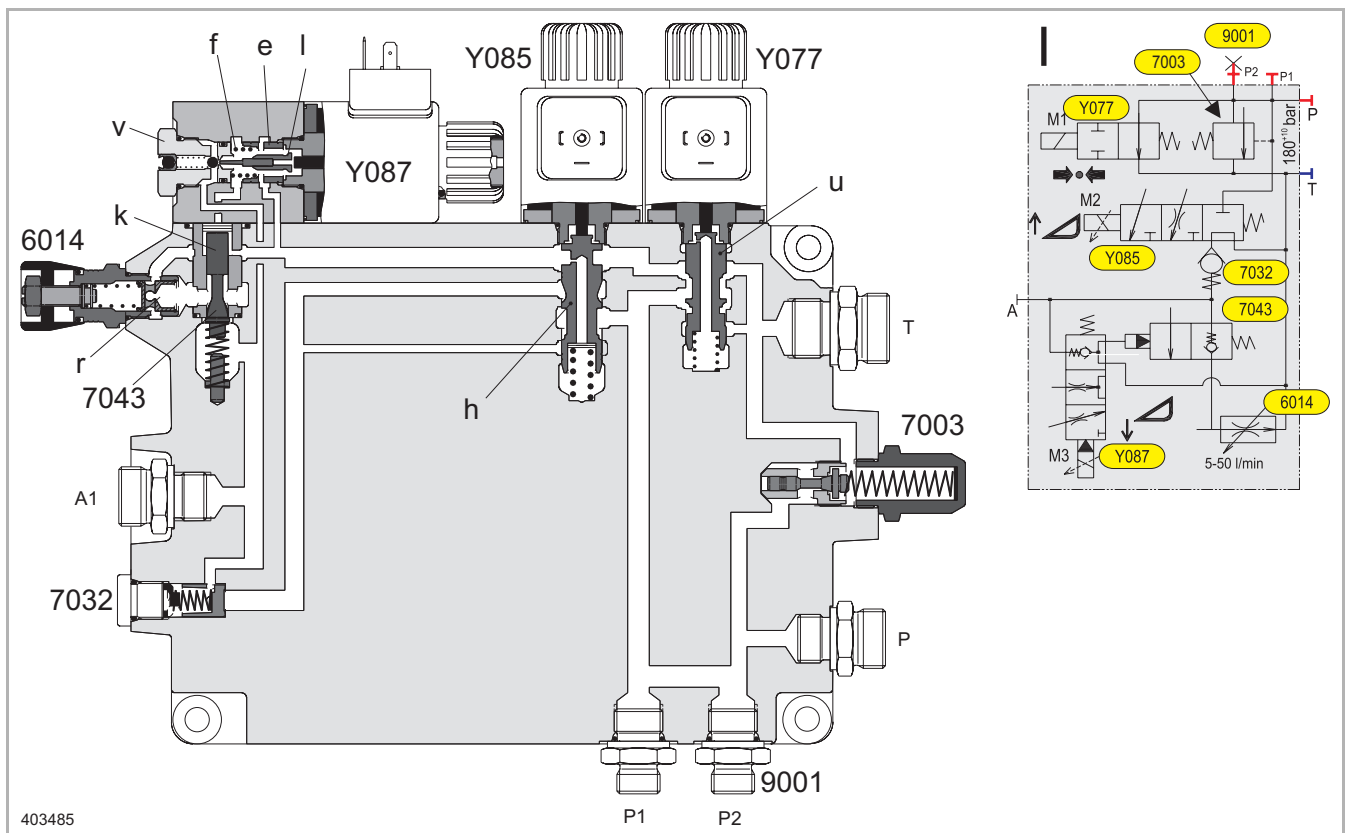


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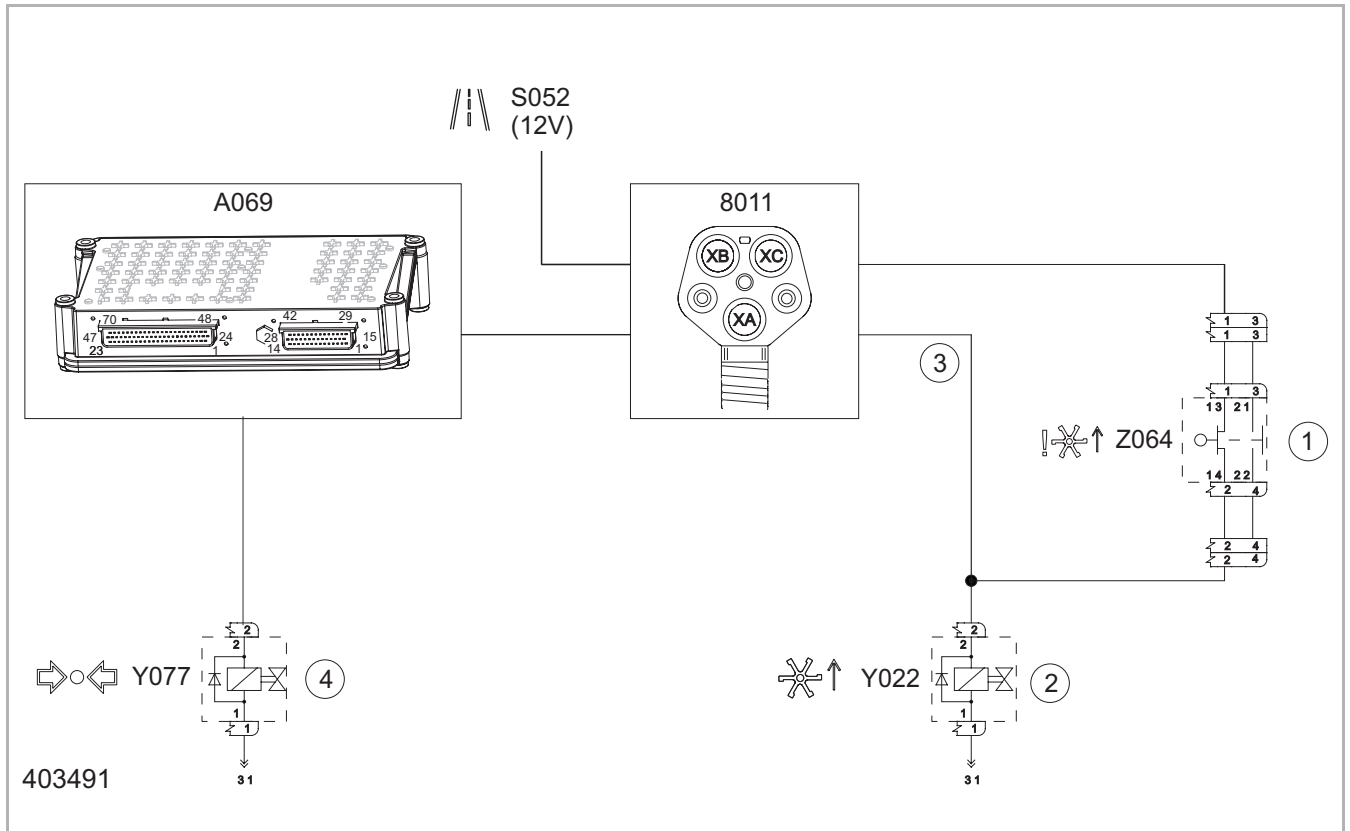


Main valve



Item	Component
6014	Flow control valve (5 – 50 ltr./min)
7003	Working hydraulics pressure relief valve (180 ⁺¹⁰ bar)
7032	Non-return valve (inlet valve)
7043	Lower front attachment hydraulic valve
9001	Working hydraulics measuring point
-	-
Y077	Working hydraulics master valve solenoid coil

Reverse front attachment



Item	Component
12V	Power supply
A069	Vehicle base module (VBM)
S052	Road travel switch
8011	Front attachment multi-coupling
Y022	Reel raise solenoid coil
Y023	Reel lower solenoid coil
Y077	Working hydraulics master valve solenoid coil
Z064	Vario reel emergency lift-out actual value switch

Hydraulic cylinder - Synchronous movement function

These synchronous movement hydraulic cylinders are designed so that the ram ring surface of the main cylinder (3015) is the same as the ram surface of the slave cylinder (3014). The cylinders thus have synchronous movements so that the connecting rods extend and retract in parallel and regardless of the load.

Hydraulic cylinder - Bottom valves

The bottom valves (V) in the main cylinder (3015) open upon reaching the upper end position, so that the slave cylinder can be filled and vented.

Legend for overview of functions

Item	Component	Remark
CAN0	Vehicle CAN	Vehicle CAN
LP	Low-pressure system	19 ⁺⁴ bar (constant)
T signal	Clocked signal	Safety-relevant functions / operation
-	-	-
2009	Ground drive charge pump	22.5 cm ³ , 24 ⁺⁴ bar
2012	Reel drive motor	160cm ³
2013	Reel drive pump	15 cm ³ , 140 ⁺⁵ bar
8011	Front attachment multi-coupling	-
-	-	-
A030	CEBIS terminal	-
A069	Vehicle base module	VBM
A075	Operating panel module	OPM
-	-	-
B016	Gearbox speed / ground speed sensor	-
B017	Reel speed sensor	-
B035	Feed rake conveyor position sensor	-
-	-	-
S052	Road travel switch	-
S057	Front attachment reverse switch	-
S095	Front attachment ON/OFF switch	-
S152	Cutting height control (CAC) multifunction push switch	-
S153	Pre-set cutting height control multifunction push switch	-
S250	Threshing mechanism ON/OFF switch	-
-	-	-
XC	Multicoupler connector	-
-	-	-
Y027	Reel speed adjustment solenoid coil	-

Manual cross levelling

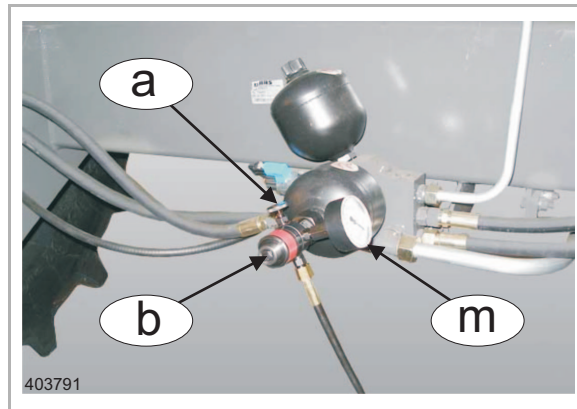
Front attachment dampening

26 Ground guidance

Auto-Contour (CAC)/Contour

Accumulator pressure filling instructions

(part no. 365 837.x)



- Remove cap
- Slightly slacken off the screw plug
- Screw on the filling unit hand-tight
- Close the drain valve (a)
- Open feed valve (b)
- Open the bottle valve briefly
- Set the pressure (m) with valve (a)
- Close feed valve (b)
- Open the drain valve (a) briefly
- Remove filling unit
- Tighten screw plug (30 Nm)
- Fit cap
- Apply lettering to accumulator

Item	Component
B	two notches
P	Pump connection
T	Tank connection

Sieve adjustment - Lower sieve

Legend for overview of functions

Item	Component	Remark
T signal	Clocked signal	Safety-relevant functions / operation
LP	Low-pressure system	19 ⁺⁴ bar (constant)
-	-	-
2009	Ground drive charge pump	22.5 cm ³ , 24 ⁺⁴ bar
3021	Grain tank unloading clutch hydraulic cylinder	-
CAN0	Vehicle CAN	Vehicle CAN
-	-	-
A069	Vehicle base module	VBM
A075	Operating panel module	OPM
-	-	-
C001	Multifunction handle	-
-	-	-
S031	Grain tank unloading switch	-
S052	Road travel switch	-
-	-	-
Y035	Grain tank unloading solenoid coil	-
-	-	-
Z005	Seat contact	-
Z030	Grain tank unloading tube swung out actual value switch	-

Measured value table

Item	Component	Measured value	Remark
Y035	Solenoid coil	3.8A 3.2Ω	See lettering

Description of function

Grain tank unloading

The prerequisite for the grain tank unloading function is that the road travel switch (S052) is set to the fieldwork position. Moreover, the seat contact (Z005) and the grain tank unloading tube swung out switch (Z030) must be closed.

When the grain tank unloading switch (S031) transmits a signal pulse to the operating panel module (A075), this command is transmitted on the CAN BUS and the vehicle base module (A069) energises the grain tank unloading solenoid coil (Y035).

When the grain tank unloading switch (S031) repeatedly transmits a signal pulse to the operating panel module (A075), this command is also transmitted repeatedly by the CAN BUS and the vehicle base module (A069) de-energises the grain tank unloading solenoid coil (Y035).

FMI 98 (Warning)

CLAAS-internal

FMI 99 (Info)

CLAAS-internal

DTC	ECU	CCN / SPN	FMI	Description
0x250_INF	YMM (A021)	Y052	18	Power supply at the module output failed or is below a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x3171	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3171_INF	YMM (A021)	B126	12	Data connection failed. Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3173	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3173_INF	YMM (A021)	B126	12	Data connection failed. Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3170	YMM (A021)	B126 / A021	12/ 19	Axle control inclination sensor faulty
0x3170_INF	YMM (A021)	B126 / A021	12/ 19	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3172	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3172_INF	YMM (A021)	B126	12	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3174	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3174_INF	YMM (A021)	B126	12	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3175	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3175_INF	YMM (A021)	B126	12	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3176	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3176_INF	YMM (A021)	B126	12	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.
0x3177	YMM (A021)	B126	12	Axle control inclination sensor faulty
0x3177_INF	YMM (A021)	B126	12	Module and/or CAN sensors are defective or software is not compatible. Restart the vehicle. If error persists, report error code to service.

DTC	ECU	CCN / SPN	FMI	Description
0x616	VBM (A069)	A069 / Y080	97/ 97	Vario cutting table reverse solenoid coil defective
0x616_INF	VBM (A069)	A069 / Y080	97/ 97	Error not clearly identifiable. Check solenoid coil, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (VBM)
0x61b	VBM (A069)	Y024	97	Reel forward solenoid coil defective
0x61b_INF	VBM (A069)	Y024	97	Error not clearly identifiable. Check solenoid coil, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (VBM)
0x620	VBM (A069)	Y025	97	Reel reverse solenoid coil defective
0x620_INF	VBM (A069)	Y025	97	Error not clearly identifiable. Check solenoid coil, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (VBM)
0x2d89	VBM (A069)	Y089	97	Front attachment variable-speed drive slow solenoid coil defective
0x2d89_INF	VBM (A069)	Y089	97	Error not clearly identifiable. Check solenoid coil, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (VBM)
0x621	VAR (A027)	A027	97	Vario cutterbar module defective
0x621_INF	VAR (A027)	A027	97	Error not clearly identifiable. Check solenoid coil, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (VBM)
0x2d02	VBM (A069)	B015	98	Fan slippage
0x2d02_INF	VBM (A069)	B015	98	Check drive belt tension, where necessary learn speeds (CEBIS), check variator
0x2d27	VBM (A069)	B024	98	Rotor slippage
0x2d27_INF	VBM (A069)	B024	98	Check drive belt tension, where necessary learn speeds (CEBIS), check variator
0x2d39	VBM (A069)	B011	98	Threshing drum slippage
0x2d39_INF	VBM (A069)	B011	98	Check drive belt tension, where necessary learn speeds (CEBIS), check variator
0x2d03	VBM (A069)	B015	8	Fan speed sensor signal faulty - set value cannot be saved

DTC	ECU	CCN / SPN	FMI	Description
0x2b18	VBM (A069)	Y022	5	Reel raise solenoid coil defective
0x2b18_INF	VBM (A069)	Y022	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2b1c	VBM (A069)	Y023	5	Reel lower solenoid coil defective
0x2b1c_INF	VBM (A069)	Y023	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2b22	VBM (A069)	Y101	5	Quick stop solenoid coil defective
0x2b22_INF	VBM (A069)	Y101	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2b27	VBM (A069)	Y086	5	Front attachment reverse solenoid coil defective
0x2b27_INF	VBM (A069)	Y086	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2b31	VBM (A069)	Y274	5	Reel speed adjustment solenoid coil defective
0x2b31_INF	VBM (A069)	Y274	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2a12	VBM (A069)	A026	5	Deflector adjustment motor defective
0x2a12_INF	VBM (A069)	A026	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2007	VBM (A069)	Y046	5	Snapping plate clearance narrow solenoid coil defective
0x2007_INF	VBM (A069)	Y046	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.

DTC	ECU	CCN / SPN	FMI	Description
0x3000_INF	HSM (A114)	S052	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x306a	HSM (A114)	Y110	18	Cutting angle reduce solenoid coil defective
0x306a_INF	HSM (A114)	Y110	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30cb	HSM (A114)	Y418	18	Pivot front axle right solenoid coil defective
0x30cb_INF	HSM (A114)	Y418	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30d0	HSM (A114)	Y419	18	Rear axle raising solenoid coil defective
0x30d0_INF	HSM (A114)	Y419	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30d5	HSM (A114)	Y420	18	Rear axle lowering solenoid coil defective
0x30d5_INF	HSM (A114)	Y420	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30e4	HSM (A114)	Y441	18	4-Trac master valve solenoid coil defective
0x30e4_INF	HSM (A114)	Y441	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30c6	HSM (A114)	Y417	18	Pivot front axle left solenoid coil defective
0x30c6_INF	HSM (A114)	Y417	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x306c	HSM (A114)	Y111	18	Cutting angle increase solenoid coil defective
0x306c_INF	HSM (A114)	Y111	18	Power supply failed or is outside a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0xea	YMM (A021)	A021	99	Measured set zero yield too high. Recalibrate the set zero yield.

DTC	ECU	CCN / SPN	FMI	Description
0x619_INF	VBM (A069)	Y024	4	Short circuit against earth: check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x61e	VBM (A069)	Y025	4	Reel reverse solenoid coil defective
0x61e_INF	VBM (A069)	Y025	4	Short circuit against earth: check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x782	Auto-pilot (A009)	B005	4	Working hydraulics / Autopilot pressure sensor signal faulty
0x782_INF	Auto-pilot (A009)	B005	4	Short circuit against earth: check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x79	VBM (A069)	A069 / A003	98/ 11	Engine load-drop! Critical aggregate speed
0x79_INF	VBM (A069)	A069 / A003	98/ 11	Engine speed has fallen below the rated speed. Reducing the ground speed
0x30e9	HSM (A114)	Y443	18	Rear axle hydraulics enable solenoid coil defective Axle adjustment not possible!
0x30e9_INF	HSM (A114)	Y443	18	Power supply failed or is below a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30ee	HSM (A114)	Y442	18	Rear axle hydraulics enable solenoid coil defective Axle adjustment not possible!
0x30ee_INF	HSM (A114)	Y442	18	Power supply failed or is below a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x554	VBM (A069)	Y124	18	Ground drive brake restrictor solenoid coil defective
0x554_INF	VBM (A069)	Y124	18	Power supply failed or is below a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x610	VBM (A069)	Y079 / A069	18/ 18	Vario cutting table forward solenoid coil defective
0x610_INF	VBM (A069)	Y079 / A069	18/ 18	Power supply failed or is below a defined range. Check power supply / fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x200a	VBM (A069)	Y046	18	Snapping plate clearance narrow solenoid coil defective

DTC	ECU	CCN / SPN	FMI	Description
0x18aa_INF	CEBIS (A030)	A021	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18ac	CEBIS (A030)	A064	17	Teleservice module failed
0x18ac_INF	CEBIS (A030)	A064	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18ae	CEBIS (A030)	A051	17	Radial spreader module failed
0x18ae_INF	CEBIS (A030)	A051	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18c1	CEBIS (A030)	A098	17	Grain tank unloading aid module failed
0x18c1_INF	CEBIS (A030)	A098	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18a6	CEBIS (A030)	A069	17	VBM module failed
0x18a6_INF	CEBIS (A030)	A069	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18c2	CEBIS (A030)	A114	17	Hillside function module failed
0x18c2_INF	CEBIS (A030)	A114	17	Module does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18ad	CEBIS (A030)	B126	17	Axle control inclination sensor failed
0x18ad_INF	CEBIS (A030)	B126	17	Sensor does not respond to data request. Check power supply (output, electronics). Check fuse, connectors and lines. Possible error in the CAN-BUS. Check the component compatibility. Restart the vehicle. If error persists, report error code to service.
0x18b2	VBM (A069)	Z019	99	Hydraulic oil level too low

DTC	ECU	CCN / SPN	FMI	Description
0x1803	VBM (A069)	110 / 110	0/ 98	Cooling water temperature too high
0x1803_INF	VBM (A069)	110 / 110	0/ 98	Check the engine cooling system, clean if needed.
0x1804	VBM (A069)	172	98	Diesel engine intake air temperature too high
0x1804_INF	VBM (A069)	172	98	Check the air filter, clean if needed.
0x1805	VBM (A069)	Z069	98	Engine air filter blocked
0x1805_INF	VBM (A069)	Z069	98	Check engine air filter, clean if needed. If error persists, report error code to service.
0x1806	VBM (A069)	94	98	Fuel filter blocked
0x1806_INF	VBM (A069)	94	98	Change the fuel filter, if necessary have the fuel system checked.
0x2d31	VBM (A069)	B026	98	Straw walker slippage
0x2d31_INF	VBM (A069)	B026	98	Reduce the machine loading, check the tension of the drive belts, where necessary learn speeds (CEBIS), where necessary check the settings of the straw chopper and swath discharge.
0x2d32	VBM (A069)	B026	8	Straw walker speed sensor signal faulty - set value cannot be saved
0x2d32_INF	VBM (A069)	B026	8	Actual straw walker speed is outside the valid target range. Diesel engine speed? Check sensor / sensor setting. Check connectors and lines, where necessary learn speeds (CEBIS). Restart the vehicle. If error persists, report error code to service.
0x2d33	VBM (A069)	B026	8	Straw walker stoppage
0x2d33_INF	VBM (A069)	B026	8	Threshing mechanism OFF! Signal frequency or pulse-width (PWM) are outside of the permitted range. Check straw walker drive, check sensor/sensor settings, check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2d3b	VBM (A069)	B011	8	Threshing drum stoppage
0x2d3b_INF	VBM (A069)	B011	8	Threshing mechanism OFF! Signal frequency or pulse-width (PWM) are outside of the permitted range. Check threshing drum drive, check sensor/sensor settings, check connectors and lines. Restart the vehicle. If error persists, report error code to service.

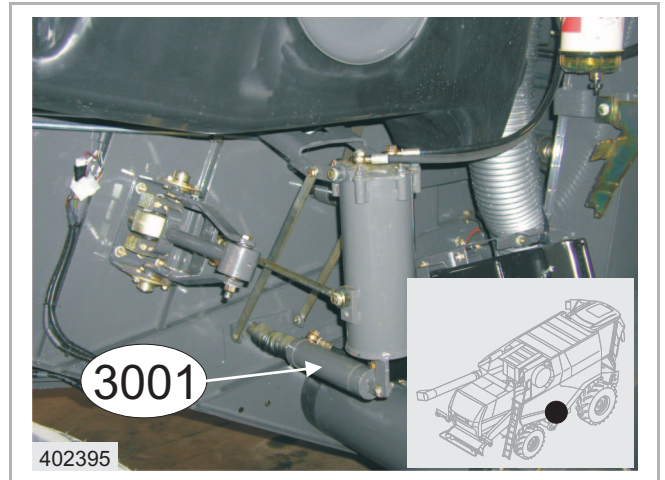
DTC	ECU	CCN / SPN	FMI	Description
0x2da6_INF	VBM (A069)	A069	12	Saving the upper sieve position not successful. Restart the vehicle. If error persists, report error code to service.
0x2db8	VBM (A069)	U007	19	Lower sieve end stops learning not possible
0x2db8_INF	VBM (A069)	U007	19	External operation still active. Software parameters are not met. Operating error? Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2dbb	VBM (A069)	U007	19	Saving of lower sieve set value not possible
0x2dbb_INF	VBM (A069)	U007	19	External operation still active. Software parameters are not met. Operating error? Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2da7	VBM (A069)	U006	19	Saving of upper sieve set value not possible
0x2da7_INF	VBM (A069)	U006	19	External operation still active. Software parameters are not met. Operating error? Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2dab	VBM (A069)	A025	18	Upper sieve adjustment motor defective
0x2dab_INF	VBM (A069)	A025	18	No power supply to the module (SAM): check fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (SAM).
0x2db0	VBM (A069)	A025	18	Upper sieve adjustment motor defective
0x2db0_INF	VBM (A069)	A025	18	No power supply to the module (SAM): check fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (SAM).
0x2dbf	VBM (A069)	A025	18	Lower sieve adjustment motor defective
0x2dbf_INF	VBM (A069)	A025	18	No power supply to the module (SAM): check fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (SAM).
0x2dc4	VBM (A069)	A025	18	Lower sieve adjustment motor defective
0x2dc4_INF	VBM (A069)	A025	18	No power supply to the module (SAM): check fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service. Possible defective power output on the module (SAM).
0x2dac	VBM (A069)	M012	97	Upper sieve adjustment function is faulty. Adjustment not possible!

DTC	ECU	CCN / SPN	FMI	Description
0x308d	HSM (A114)	B126	12	Axle control inclination sensor faulty
0x308d_INF	HSM (A114)	B126	12	Restart the vehicle. If error persists, report error code to service.
0x308e	HSM (A114)	B126	12	Axle control inclination sensor faulty
0x308e_INF	HSM (A114)	B126	12	Restart the vehicle. If error persists, report error code to service.
0x2900	VBM (A069)	B032	3	Residual separation sensor signal faulty
0x2900_INF	VBM (A069)	B032	3	Short circuit against battery +: Carry out sensor test in CEBIS. Check sensor, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2901	VBM (A069)	B031	3	Cleaning sensor signal faulty
0x2901_INF	VBM (A069)	B031	3	Short circuit against battery +: Carry out sensor test in CEBIS. Check sensor, connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x30e6	HSM (A114)	Y443	5	Rear axle hydraulics enable solenoid coil defective Axle adjustment not possible!
0x30e6_INF	HSM (A114)	Y443	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2902	VBM (A069)	B032	5	Residual separation sensor signal faulty
0x2902_INF	VBM (A069)	B032	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2903	VBM (A069)	B031	5	Cleaning sensor signal faulty
0x2903_INF	VBM (A069)	B031	5	Resistance in the circuit is too high; poor connections, open circuit (OL) or excessive internal component resistance. Check connectors and lines. Restart the vehicle. If error persists, report error code to service.
0x2904	VBM (A069)	B032	97	Residual separation sensor signal faulty
0x2904_INF	VBM (A069)	B032	97	Carry out sensor test in CEBIS. Check sensor, fuses, connectors and lines. Restart the vehicle. If error persists, report error code to service.

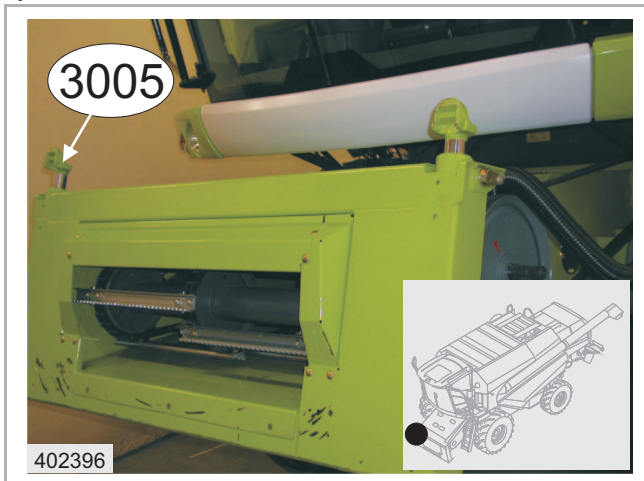
DTC	ECU	CCN / SPN	FMI	Description
0x817	CEBIS (A030)	A030	98	No track data available!
0x817_INF	CEBIS (A030)	A030	98	No track data included in the work record!
0x818	CEBIS (A030)	A030	99	GPS data reading not possible! Stop the work record first!
0x818_INF	CEBIS (A030)	A030	99	The GPS data cannot be loaded while a work record is running!
0x819	CEBIS (A030)	A030	99	Data invalid!
0x819_INF	CEBIS (A030)	A030	99	The data cannot be read, or the format has not been recognised!
0x81a	CEBIS (A030)	A030	99	Data quantity too high! Display is not possible!
0x81a_INF	CEBIS (A030)	A030	99	Displaying the data would place too great a load on the system.
0x81c	CEBIS (A030)	A030	99	No flags recorded!
0x81c_INF	CEBIS (A030)	A030	99	There are no flags in the GPS data!
0x81d	CEBIS (A030)	A030	99	No value available for this card!
0x81d_INF	CEBIS (A030)	A030	99	There are no values available for this card display!
0x825	CEBIS (A030)	A030	99	Chip card can be removed!
0x825_INF	CEBIS (A030)	A030	99	The chip card can now be removed from the terminal!
0x826	CEBIS (A030)	A030	99	Work order data being read from the chip card! Please wait!
0x826_INF	CEBIS (A030)	A030	99	The work order is being read from the chip card!
0x18c3	CEBIS (A030)	A003	17	Printer failed.

3001-3999 Hydraulic cylinder

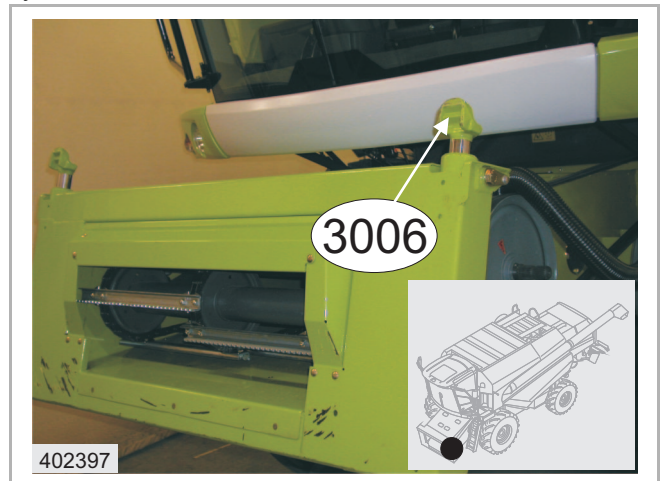
3001 3-D sieve pan hydraulic cylinder



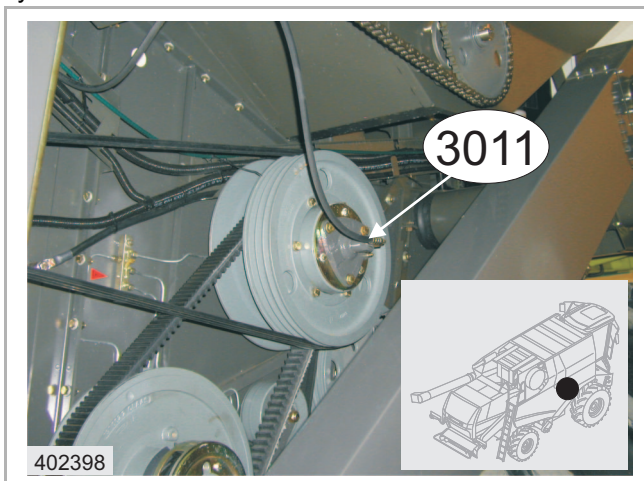
3005 AUTOCONTOUR right cross levelling hydraulic cylinder



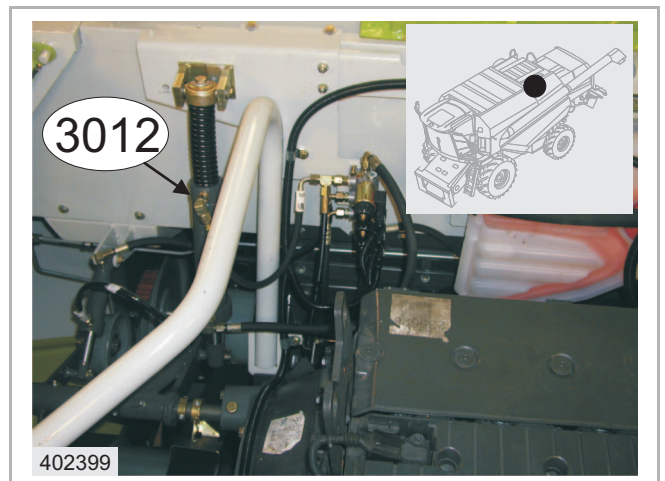
3006 AUTOCONTOUR left cross levelling hydraulic cylinder



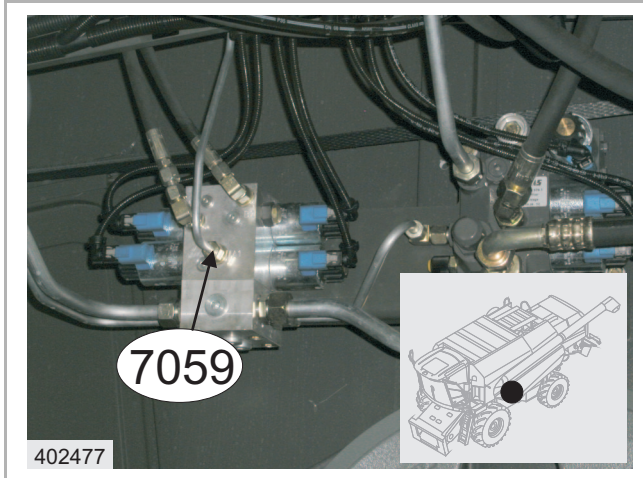
3011 Threshing drum variable-speed drive hydraulic cylinder



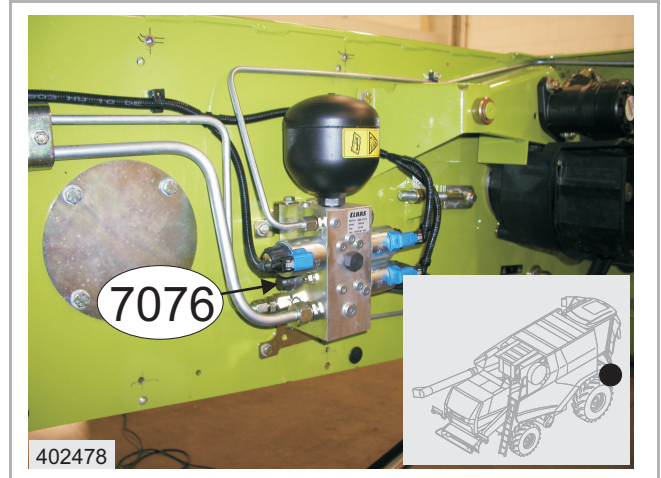
3012 Threshing mechanism clutch hydraulic cylinder



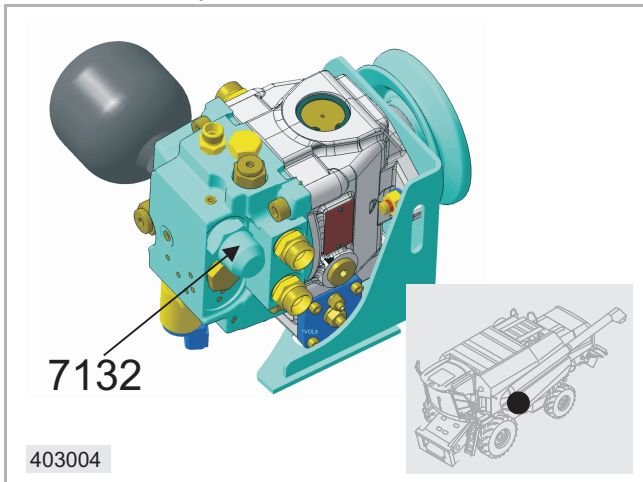
7059 One-way restrictor, two-sided



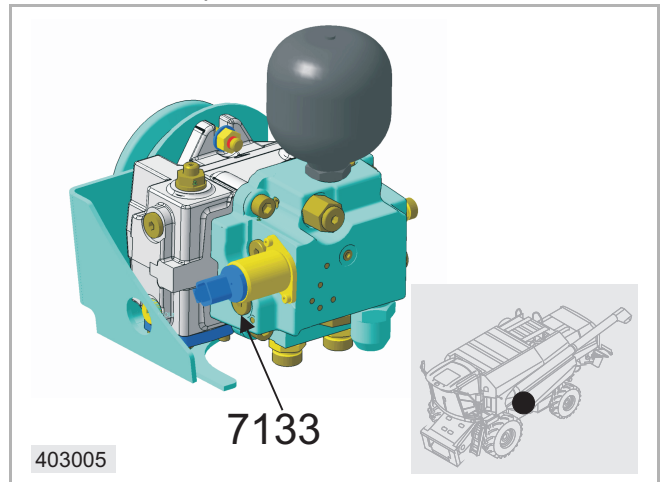
7076 Reversing sequence valve



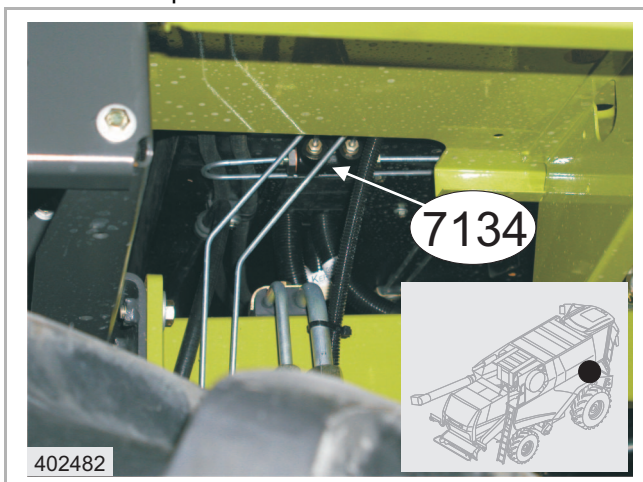
7132 Reel drive pressure relief valve



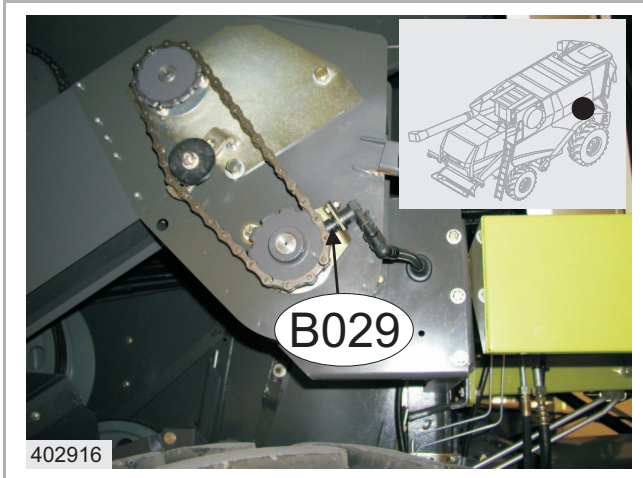
7133 Reel drive pressure cut-off



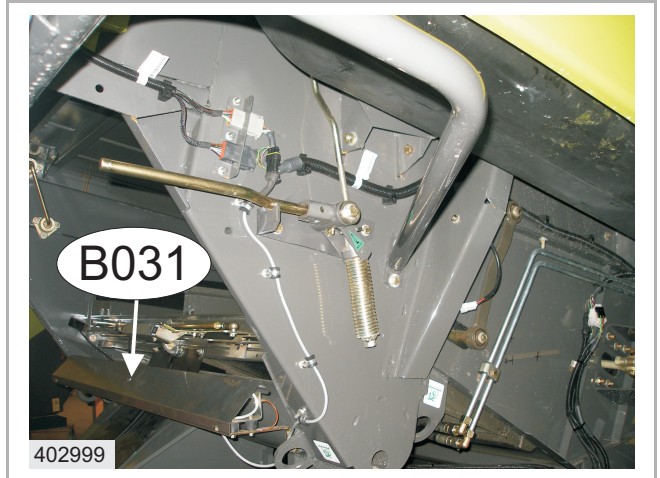
7134 Brake equalizer valve



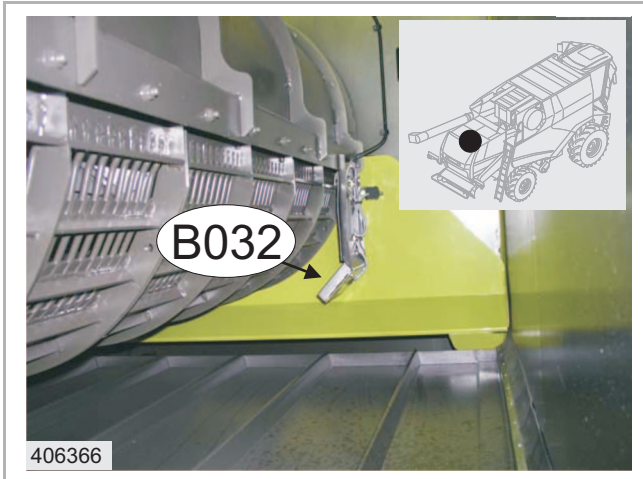
B029 Returns speed sensor



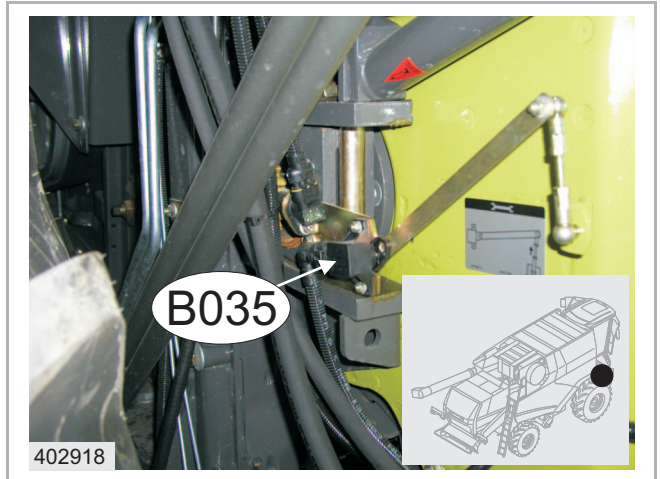
B031 Cleaning sensor



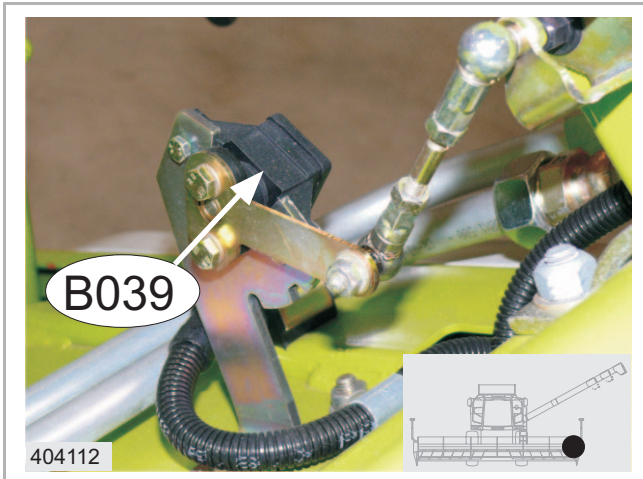
B032 Residual separation sensor



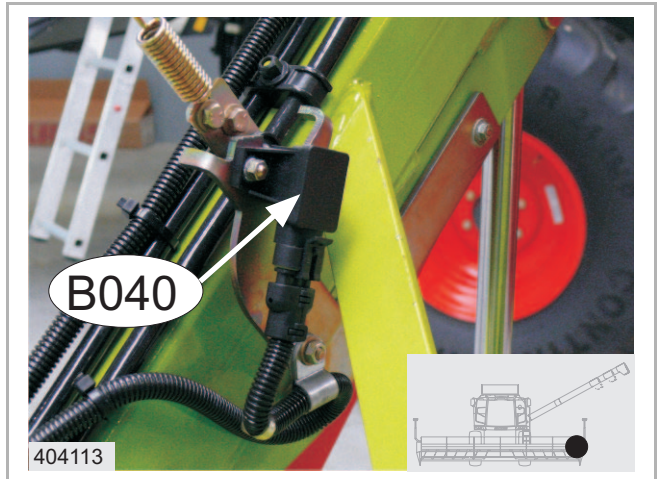
B035 Feeder housing position sensor



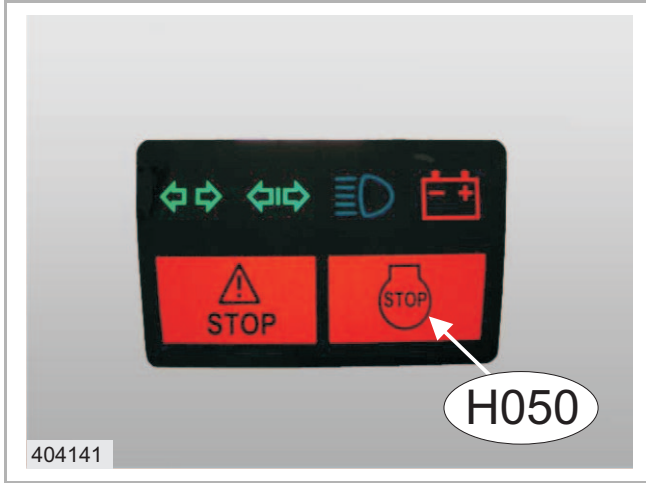
B039 Vertical reel position sensor



B040 Horizontal reel position sensor



H050 Diesel engine oil pressure signal light



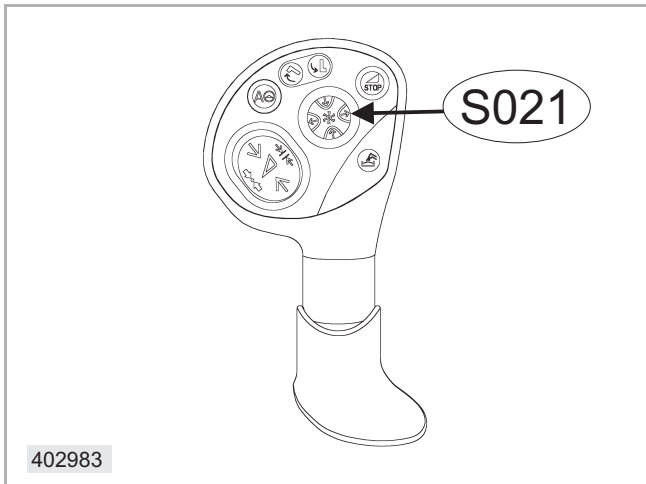
S019 Reel raise switch



S020 Reel lower switch



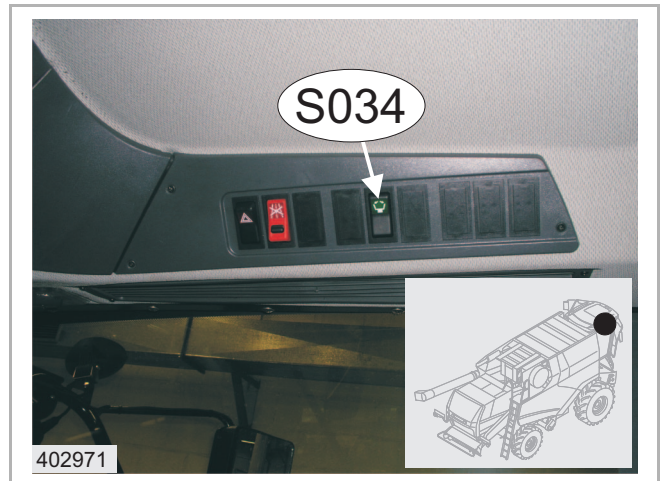
S021 Reel forward switch



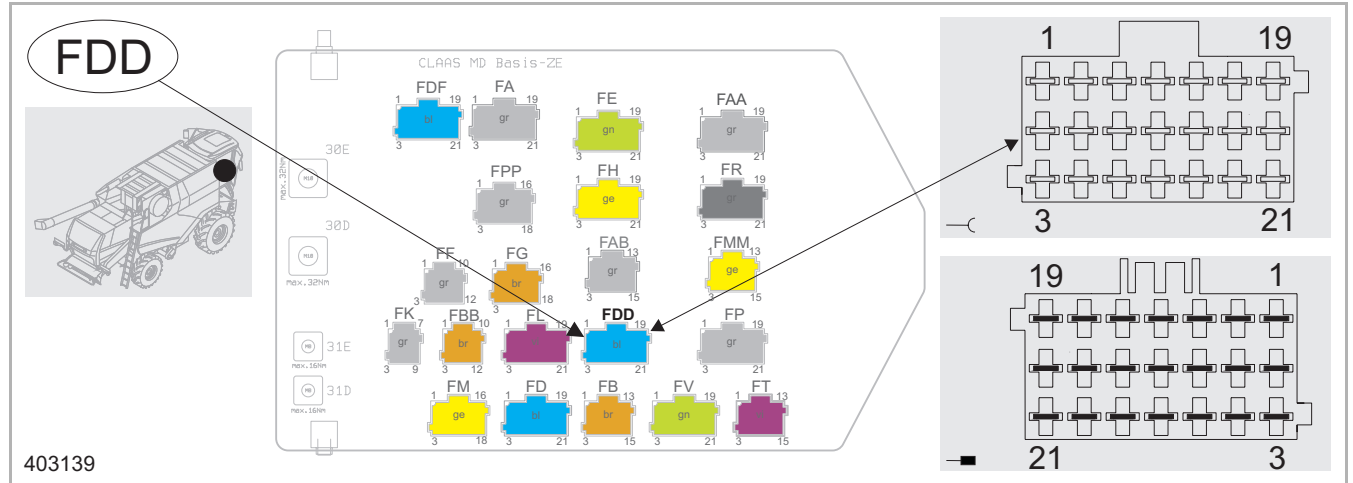
S022 Reel reverse switch



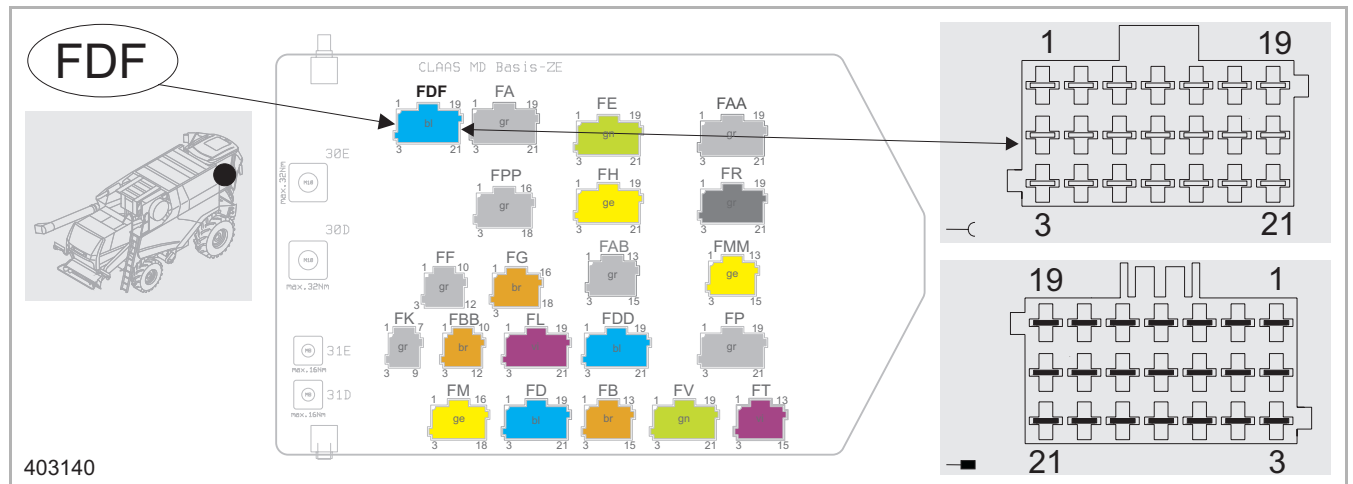
S034 Maize header fold switch



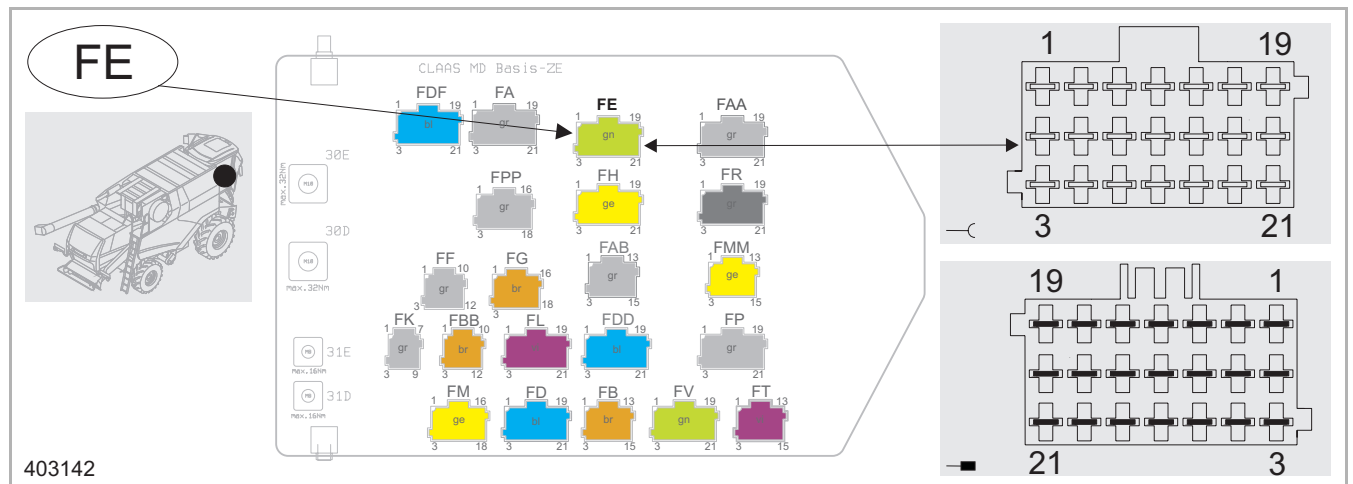
Connector FDD



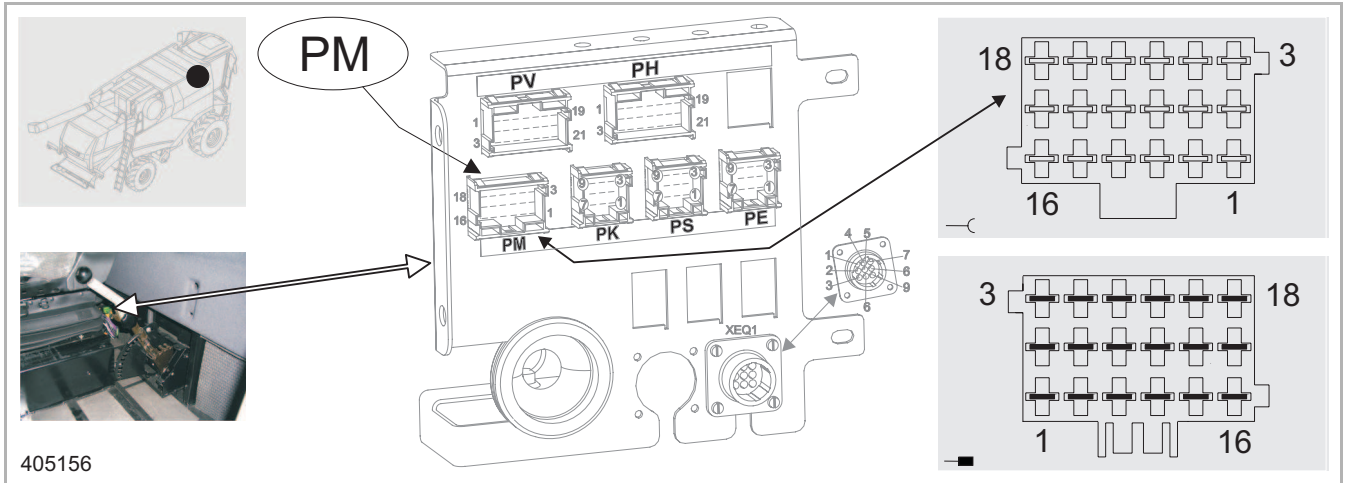
Connector FDF



Connector FE

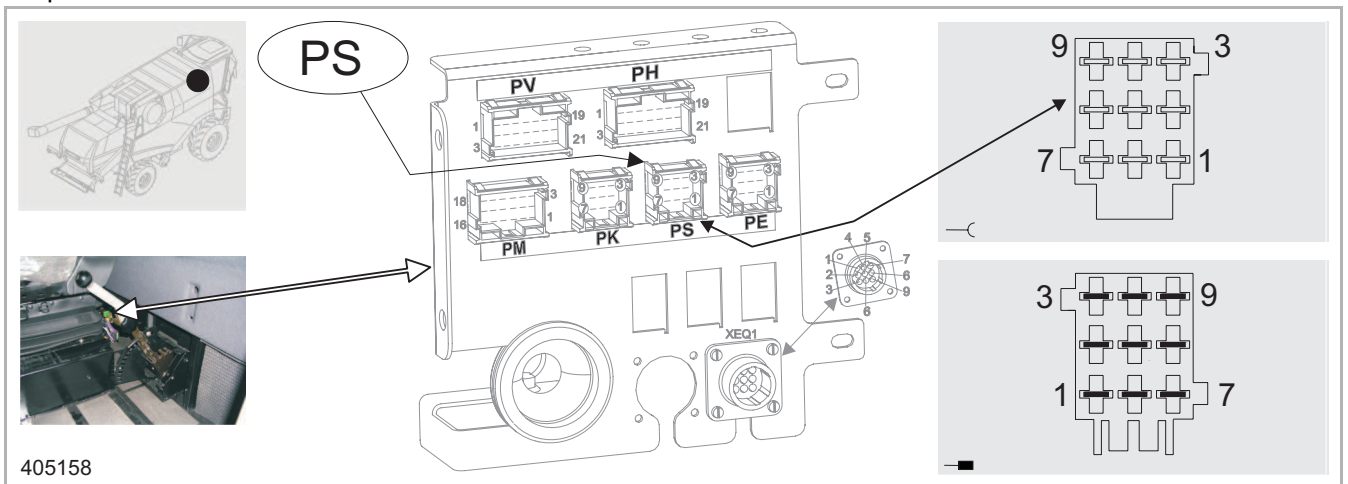


PM patch field connector



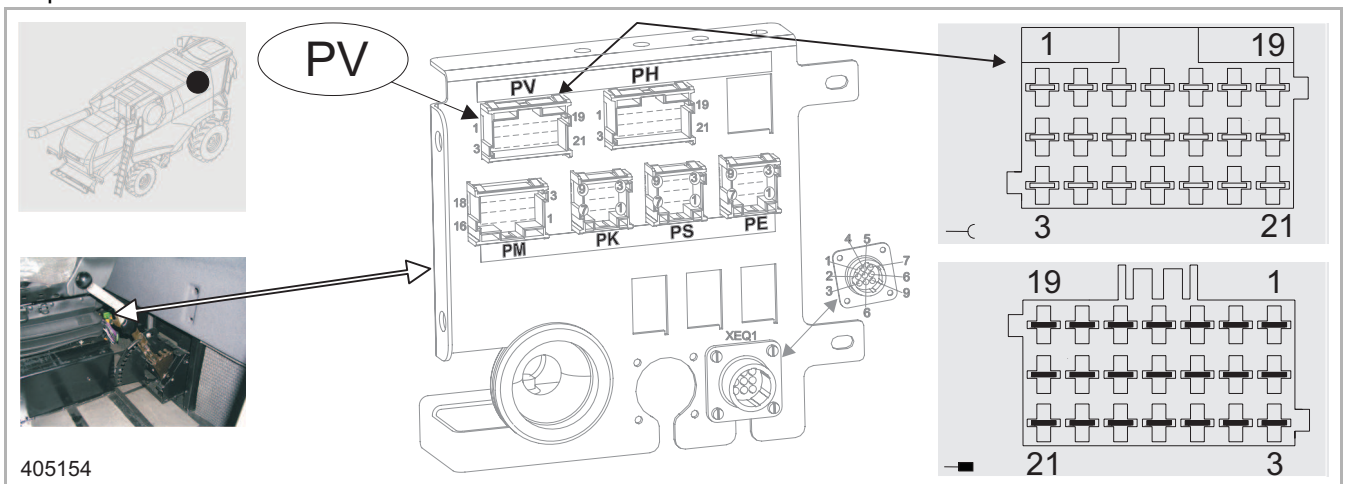
405156

PS patch field connector



405158

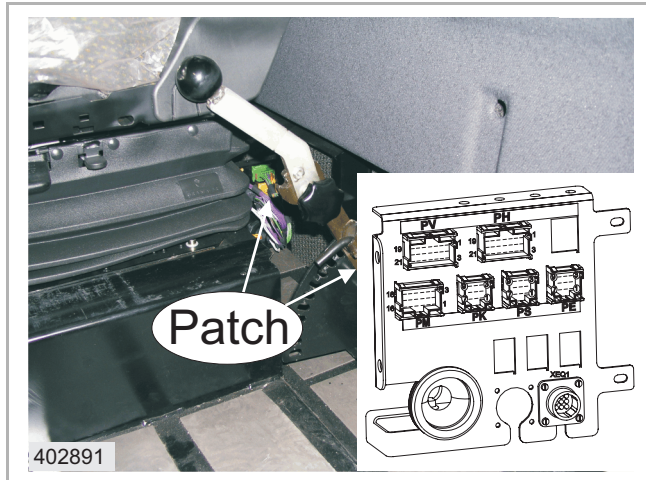
PV patch field connector



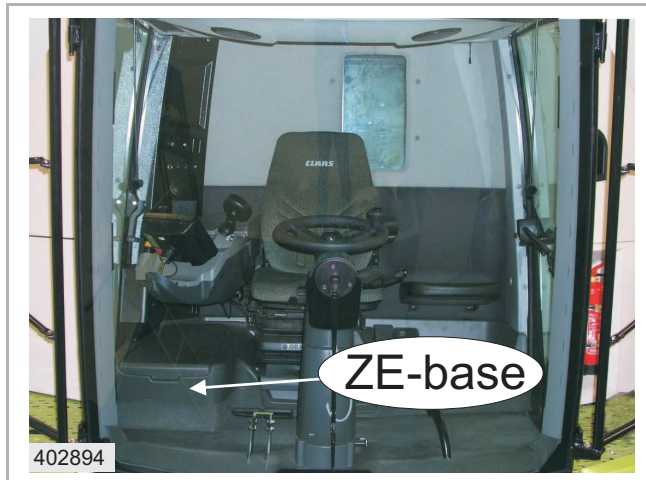
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Central terminal compartment

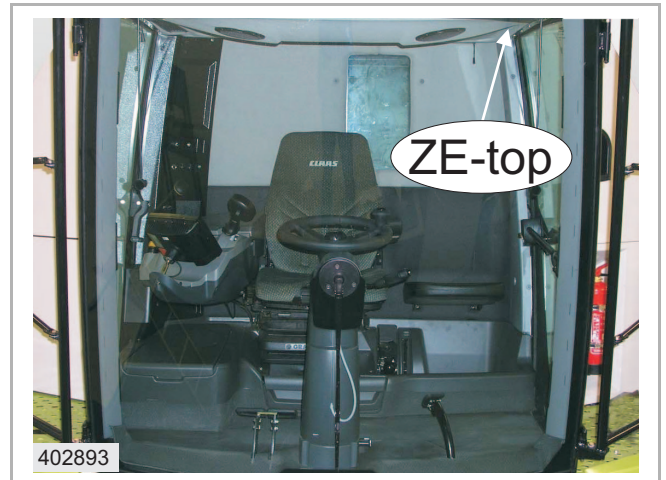
Patch field



Basic central terminal compartment



Roof central terminal compartment



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