KRAMER
on the safe side

System manual

Telehandlers

4209/KT429
4407/KT447
5007/KT507
5507/KT557
5509/KT559



Machine model	416-22-24-26-28-29
Version	1.2
Document number	1000384668
Language	[en]

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DevDes	Location	Position	device designation	item number
-XM16	+EBW	/53.C4	separator Coolant level sensor	1000283096
-XP40	+CBW	/3.B7	connection Main board (fuses & Relay)	1000099201
-XP41	+CBW		connection Main board (fuses & Relay)	1000104433
-XP42	+CBW4	/72.B6	connection Main board (fuses & Relay)	1000051984
-XP45	+CBW	/12.B2	connection Main board (fuses & Relay)	1000098961
-XP46	+CBW	/4.B1	connection Main board (fuses & Relay)	1000146828
-XP47	+CBW	/73.E1	connection Main board (fuses & Relay)	1000098960
-XP48	+CBW	/61.C2	connection Main board (fuses & Relay)	1000149340
-XP49	+CBW		connection Main board (fuses & Relay)	1000100971
-XP80	+CBW	/21.E7	main Electrical power supply Board	1000126891
-XR01	+CBW	/21.B7	separator cabin harness-motor harness	1000303404
-XR01	+EBW	/21.C7	separator cabin harness-motor harness	1000303401
-XR02	+CBW	/6.C8	separator cabin harness-frame harness	1000303405
-XR02	+FRW	/6.C8	separator cabin harness-frame harness	1000260163
-XR03	+CBW	/21.C7	separator cabin harness-motor harness	1000147060
-XR03	+EBW	/21.C7	separator cabin harness-motor harness	1000147131
-XR05	+FRW	/40.C6	Separation point gooseneck cable	1000105121
-XR05	+TAW	/40.D6	Separation point gooseneck cable	1000100595
-XR06	+FRW	/57.E2	separator Cabin-Chassis	1000147459
-XR06	+OPW9	/57.E2	separator Cabin-Chassis	
-XR08	+EBW	/29.B4	separator cabin harness-motor harness	
-XR10	+CBW		separator Cabin-Chassis	
-XR10	+FRW		separator Cabin-Chassis	1000147459
-XR33	+FRW	/47.D1	separator Trailer-Power outlet	1000308641
-XR33	+FRW1	/47.D1	separator Trailer-Power outlet	1000308642
-XR99	+FRW	/71.B4	separator Chassis	1000104286
-XS03	+CBW	/13.E1	separator Cabin-Operator seat	
-XS03	+STW	/13.D1	separator Cabin-Operator seat	1000183226
-XS04	+CBW	/42.B6	separator Cabin-Operator seat	1000240116
-XS04	+STW	/42.B6	separator Cabin-Operator seat	1000148271
-XS217	+EBW	/70.C7	jumper Option pressure switch Steering system	1000155227

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19.3 Installation position of the compressed air system

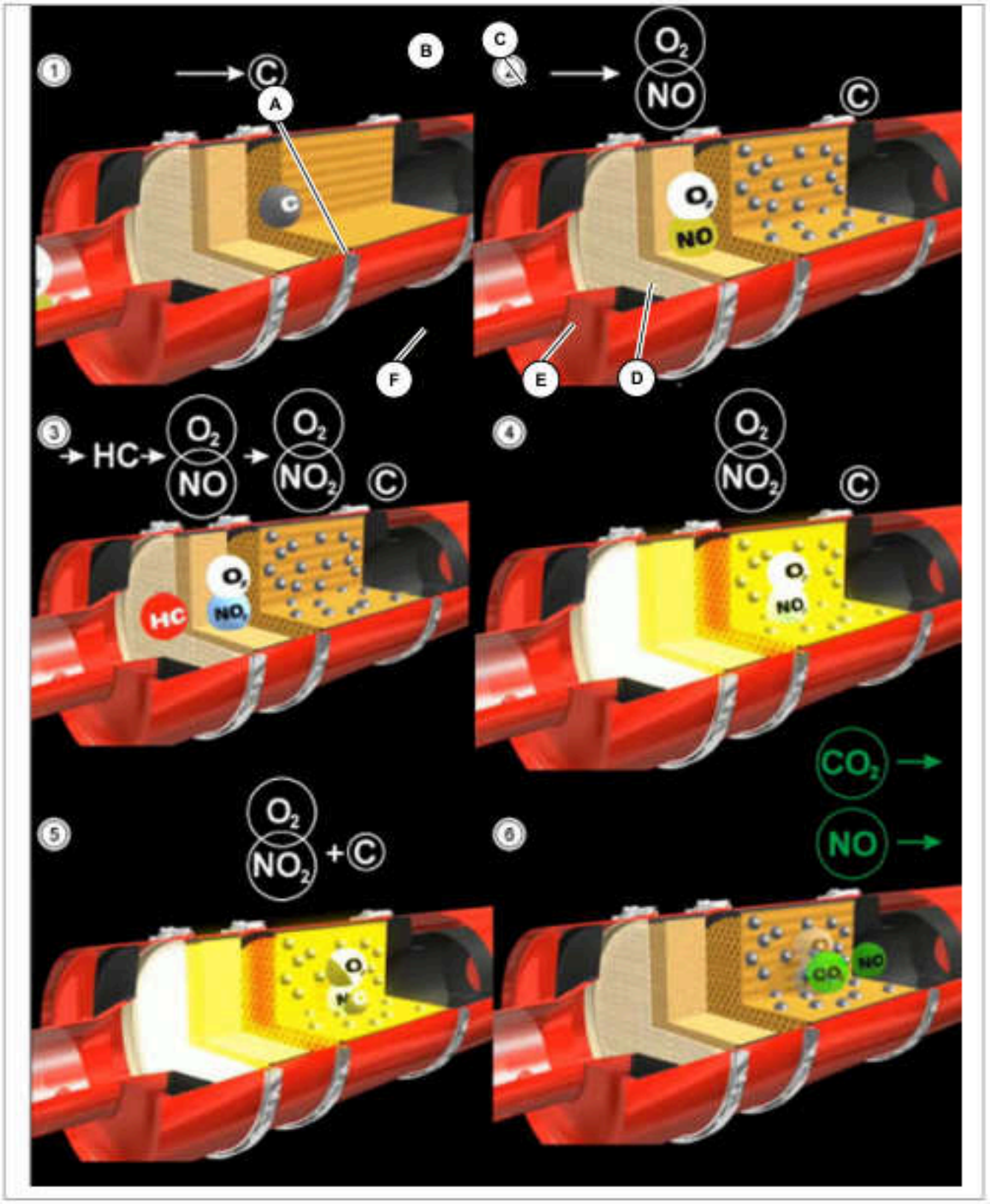
Installation position of the compressed air

BMK	Description	Function description	Installation position
B052	Compressed-air braking system sensor	*6-54*	*19-134*
P520	Air reservoir	*6-46*	*19-135*
P530	Pressure reducing valve	*6-48*	*19-135*
P540	Solenoid valve for hand brake Y049	*6-49*	*19-135*
P541	Solenoid valve, advance Y050	*6-49*	*19-135*
P560	Non-return valve	*6-51*	*19-135*
P570	Trailer control valve break function	*6-52*	*19-135*
P571	Trailer control valve	*6-53*	*19-135*
P590	Shuttle valve	*6-53*	*19-135*
S208	Compressed air brake pressure switch	*6-55*	*19-134*
Y049	Solenoid valve for hand brake Y049	*6-49*	*19-134*
Y050	Solenoid valve, advance Y050	*6-50*	*19-134*

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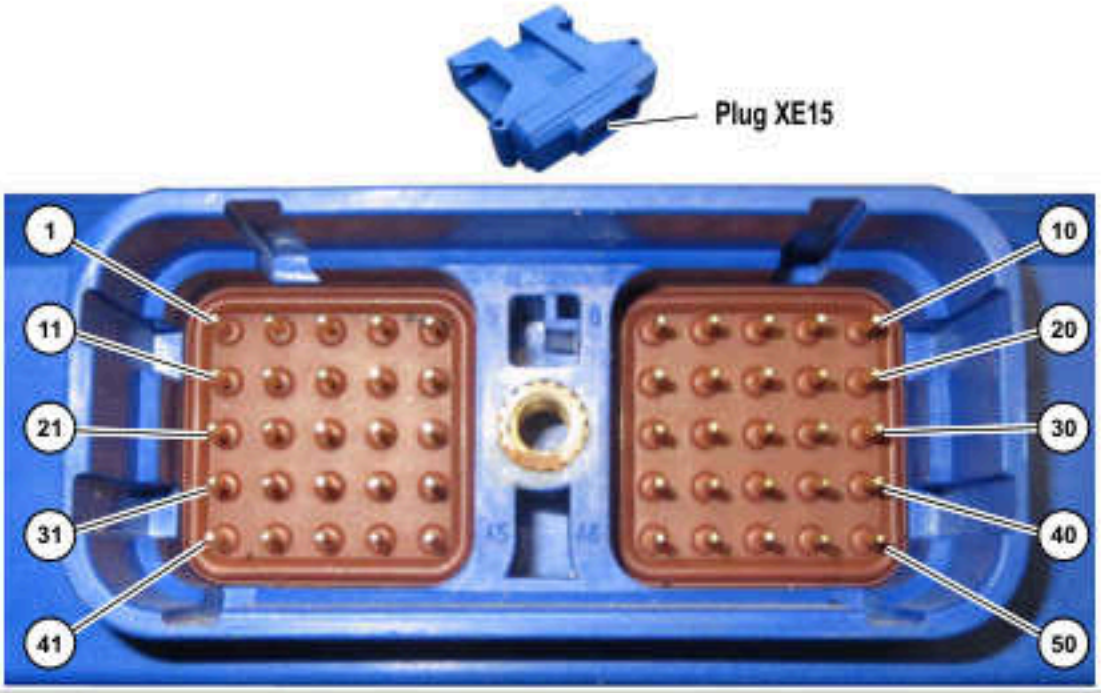
CSF system setup

The CSF system consists of a diesel oxidation catalytic converter (DOC) and diesel particulate filter (DPF) that are integrated together.



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Outputs of cabin controller N015

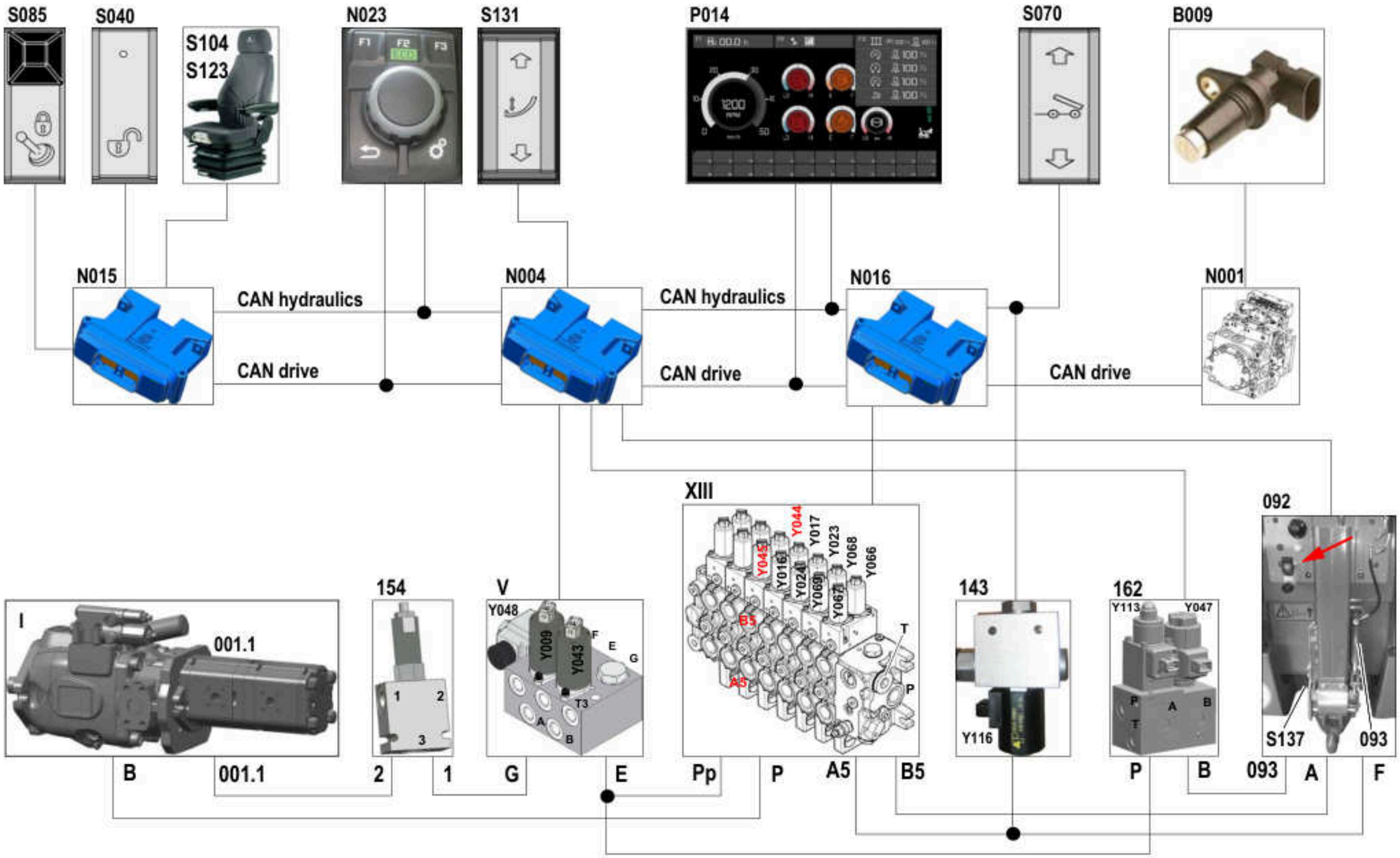


PIN	Cable colour	Measurand	Component	Description
8	YE/WH	5 volts sensor	R012 (1, 4) R036 (1)	Manual throttle Levelling potentiometer
9	YE/BN	Ground sensor	R012 (3, 6) R036 (2)	Manual throttle Levelling potentiometer
33	–	–	–	–
34	GN	DIN 12 volts	Y092 ()	Solenoid valve for the axle cut-off
35	GY	DIN 12 volts	K003 (86)	Reverse drive warning sound B003, reverse drive lights H030, 031 (H078/H079)
36	GN	DIN 12 volts	K139 (86)	Central lubrication system relay
37	WH	DIN 12 volts	N005 (43)	Deutz electronics clutch signal
38	GN	DIN 12 volts	S044 (7)	Load stabiliser speed signal
39	GN	DIN 12 volts	S044 (1)	Load stabiliser continuous signal
40	–	–	–	–
41	GN	PWM	Y016 (2)	Lock solenoid valve
42	GN	PWM	Y017 (2)	Unlock solenoid valve
43	PK	PWM	Y035 (2)	Fan
44	–	–	–	–
45	BU	PWM	Y112 (2)	PCOR valve
46	–	–	–	–

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8.8 Control of the tipper/auto-hitch

Overview: control of tipper/autohitch



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