WACKER NEUSON

System Handbook

Telehandlers

TH627



Machine model	418-02
From serial no.	418 02 0011
Version	1.0
Doc. Number	1000363144
Language	[en]

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Test protocol type 418-02 (30 km/h (18.6 mph))

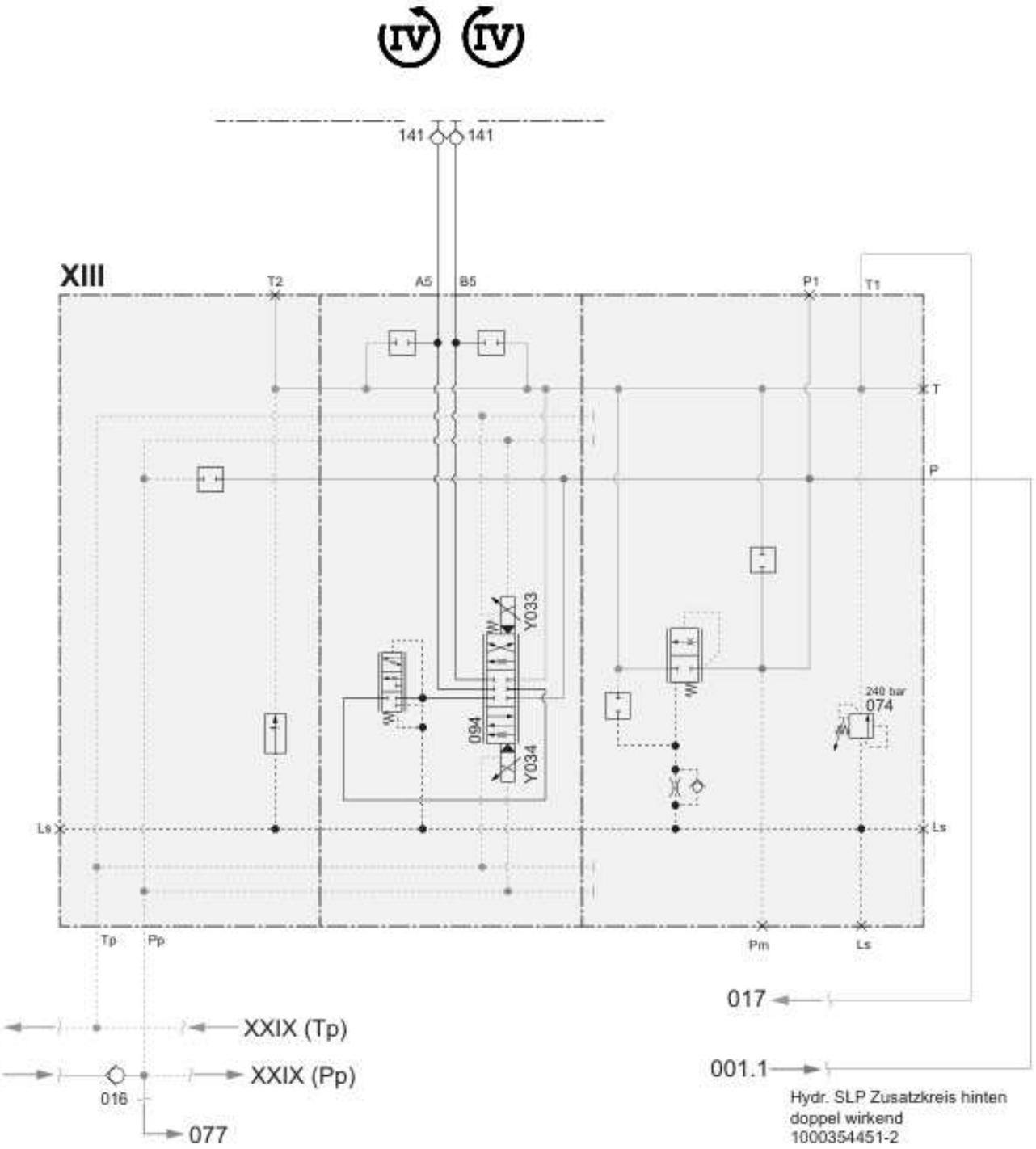
Serial no.	Serial no. Variable displacement pump	Manufacture no. Hydraulic motor	Operating hours

Hydraulic oil temperature 40°C – 60°C (104°F – 140°F)

Page	Test features	Note	Specified value	Measured value
4-11	Min. idling speed	Diagnosis tool	940 – 960 min^{-1} (rpm)	
4-11	Max. idling speed	Diagnosis tool	2,550 – 2,650 min^{-1} (rpm)	
4-12	Boost pressure	Max. diesel engine speed	30–32 bar (435.10–464.10 psi)	
4-11	Starting speed	Forward/reverse	1,050– 1,150 min^{-1} (rpm)	
4-13	Travel direction identification	Max. diesel engine speed M5 test port	> 320 bar (4641.20 psi)	
4-14	High pressure	Max. diesel engine speed	460–490 bar (6,671.74–7,106.85 psi)	
4-15	Pump engine droop	**Max. diesel engine speed** **Turtle (Mode1)** at 300–350 bar (4,351–5,076 psi) High pressure	2,250 – 2,300 U/min (rpm)	
4-16	Engine droop Variable displacement motor	from 30 km/h (18.6 mph) Hare/All wheel steering deceleration to 15 + 2 km/h (9.3 + 1.2 mph)	2350 – 2420 U/min (rpm)	
4-17	**Cardan shaft speed** Version 30 km/h (18.6 mph) Hydraulic motor speed using diagnosis tool	**Max. diesel engine speed** **Hare/front-axle steering** 18 and 20 inch Reifen	4,700–4,750 rpm	

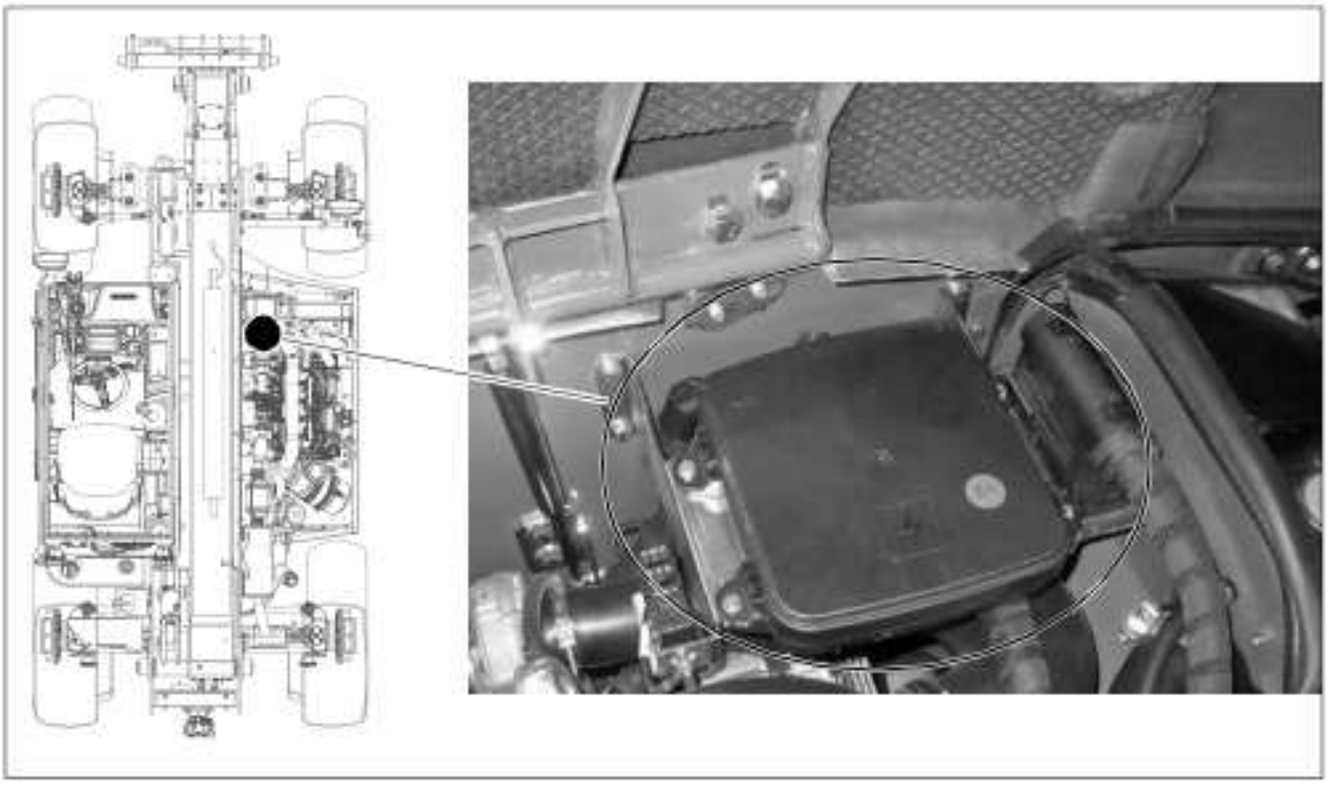
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Hydraulic diagram for rear double-action additional circuit

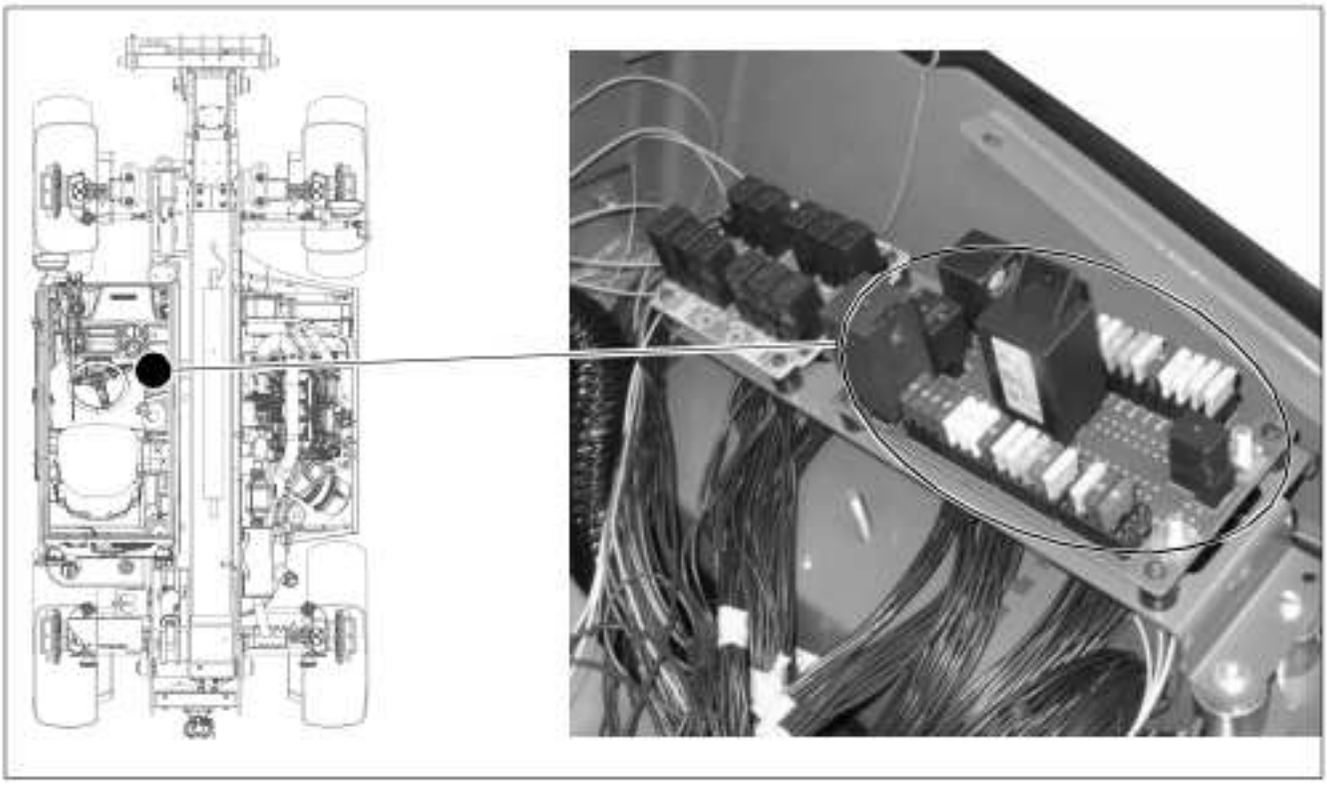


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Fuse box N025

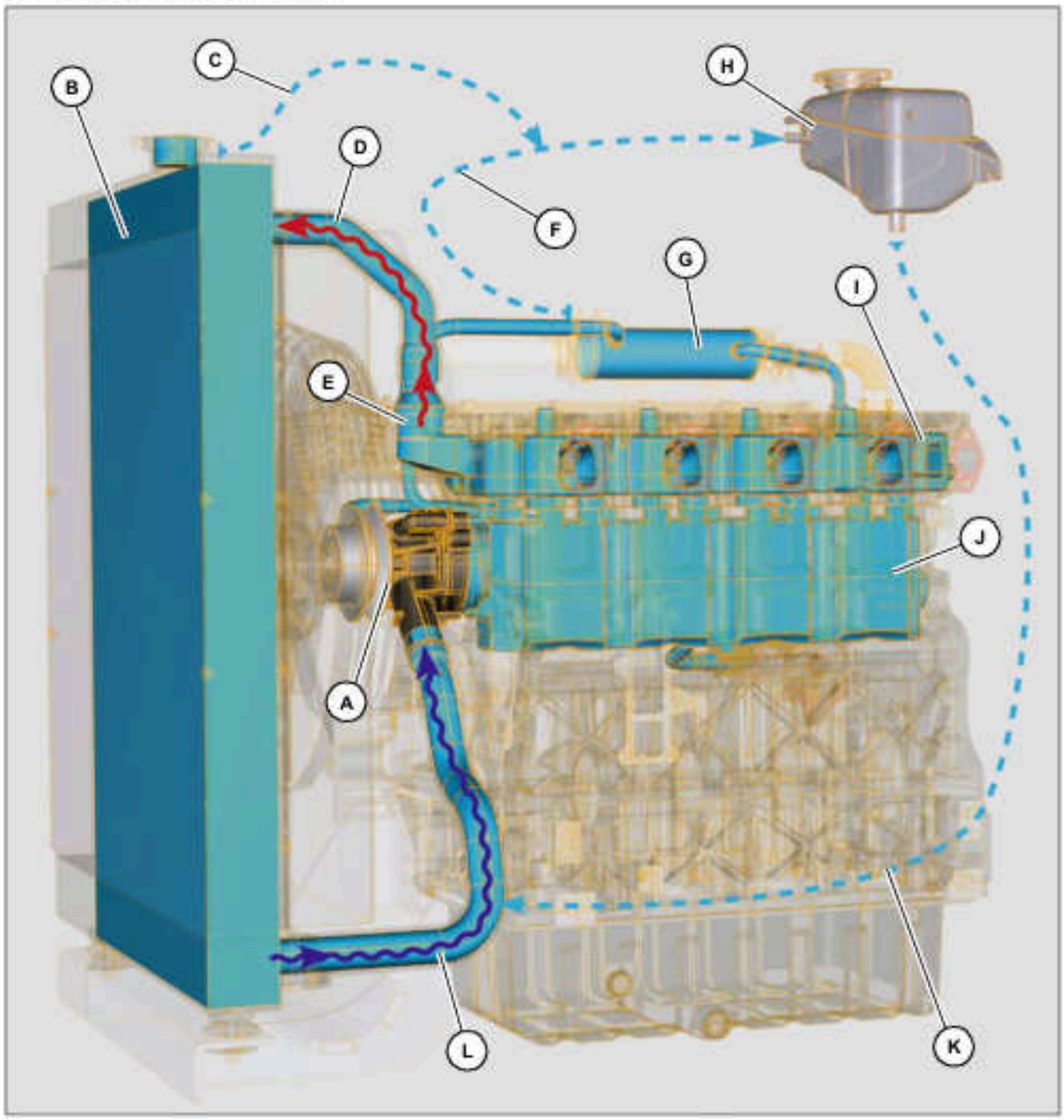


Motherboard N033



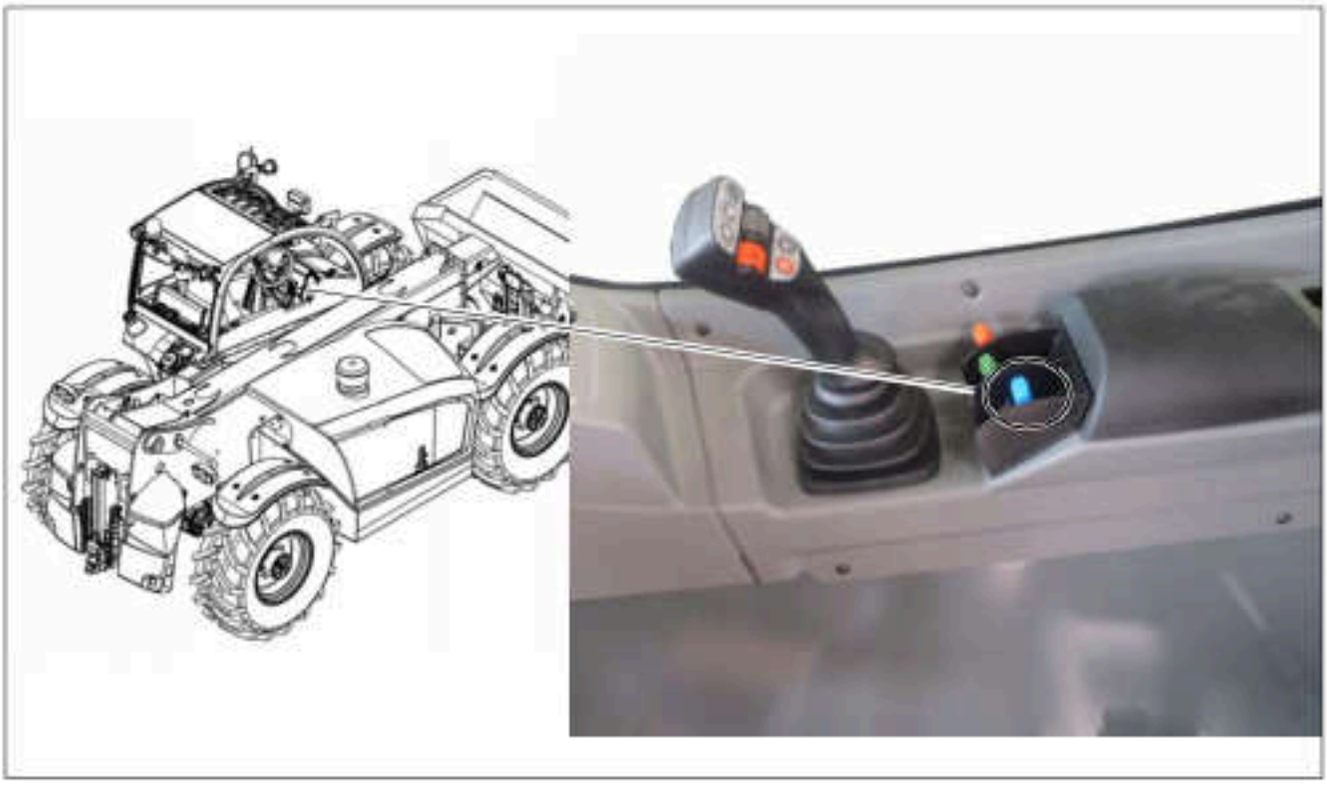
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Coolant system overview

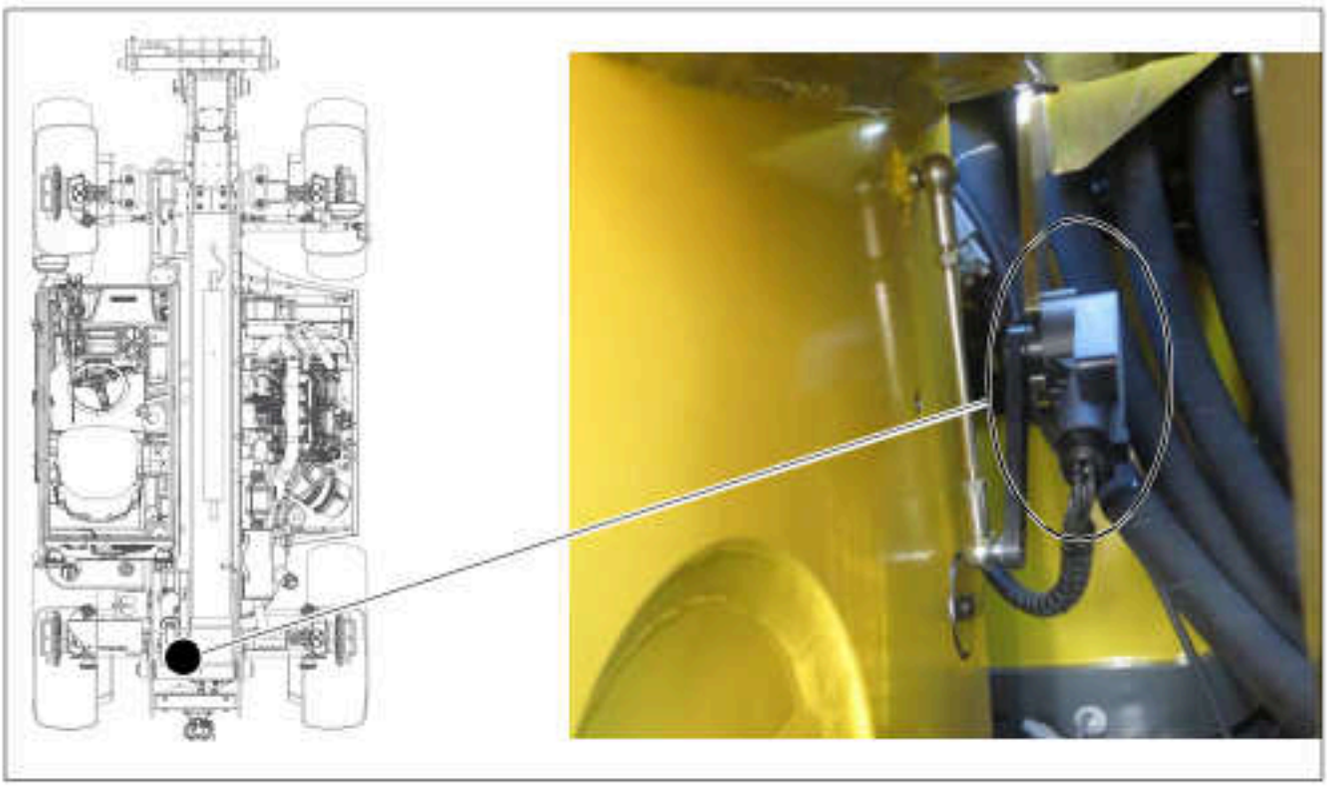


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Kriegang potentiometer R003



Angle of rotation sensor R023 – lifting arm



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Code	KNC	Designation	SPN	FMI	Alarm text	Information text What kind of error has occurred?	Error diagnosis text
959	S085	Keypad 1, Touch button 8, lock for long-haul travel	519959	7	Missing response of mechanical system or incorrect setting	S085: Lock for long-haul travel, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D003: 1. Check the signal line of keypad D003 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D003 Pin 2 to ground. 3. Replace keypad.
001		CAN Reception Keypad 2 optional error	520001	9	Abnormal update rate	0xC9: Operating mode, Can bus keypad- time-out / abnormal clock rate	1. Ignition change. 2. Check the terminal resistance from CAN 1 on diagnostic connector X001 between Pin 4 (CAN 1 H) and Pin 3 (CAN 1 L). This should be 120 ohm.
002	S047	Keypad 2, Touch button 1, tipping cylinder lock	520002	7	Missing response of mechanical system or incorrect setting	S047: Tipping cylinder lock, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
003	S044	Keypad 2, Touch button 2, load stabiliser	520003	7	Missing response of mechanical system or incorrect setting	S044: Load stabiliser, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
004	S064	Keypad 2, Touch button 3, reversing fan	520004	7	Missing response of mechanical system or incorrect setting	S064: Reversing fan, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
005	S018	Keypad 2, Touch button 4, rotating beacon	520005	7	Missing response of mechanical system or incorrect setting	S018: Rotating beacon, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
006	S180	Keypad 2, Touch button 5, continuous operation front socket Signal 2 or not assigned	520006	7	Missing response of mechanical system or incorrect setting	S180 (assignment of the keypad depends on selected options): front socket, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
007	S179 S027	Keypad 2, Touch button 6, continuous operation front socket Signal 1 or 14-pole front socket circuit selection (from, 1, 2, 3)	520007	7	Missing response of mechanical system or incorrect setting	S179/S027 (assignment of the keypad depends on selected options): front socket, keypad touch button – mechanics do not respond/ jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D003 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D003 Pin 2 to ground. 3. Replace keypad.
008	S182	Keypad 2, Touch button 7, tipping operation front socket Signal 2 or not assigned	520008	7	Missing response of mechanical system or incorrect setting	S182 (assignment of the keypad depends on selected options): front socket, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
009	S181	Keypad 2, Touch button 8, tipping operation front socket Signal 1 or not assigned	520009	7	Missing response of mechanical system or incorrect setting	S181 (assignment of the keypad depends on selected options): front socket, keypad touch button – mechanics do not respond/jammed actuated	Check the supply voltage of keypad D004: 1. Check the signal line of keypad D004 Pin 1 via fuse F032 (5A) to clamp 15. 2. Check the signal line keypad D004 Pin 2 to ground. 3. Replace keypad.
051		CAN Reception Keypad 2 optional error	520051	9	Abnormal update rate	0xCA: Operating mode, Can-Bus keypad- time-out/abnormal clock rate	1. Ignition change. 2. Check the terminal resistance from CAN 1 on diagnostic connector X001 between Pin 4 (CAN 1 H) and Pin 3 (CAN 1 L). This should be 120 ohm.

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