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2.1 CAN-bus OPERATING INSTRUCTIONS

SYSTEM DESCRIPTION

The electro-hydraulic control system used on the UNIPLUS is a CAN-bus system where all the control signals are carried by one pair of wires. The 12 Volt, 30 Amp power supply is taken directly from the tractor battery to the machine fuses, as the incab power plugs on some tractors may not be capable of supplying an adequate amperage. Additional wires are used to power the control box and an auxiliary power supply.

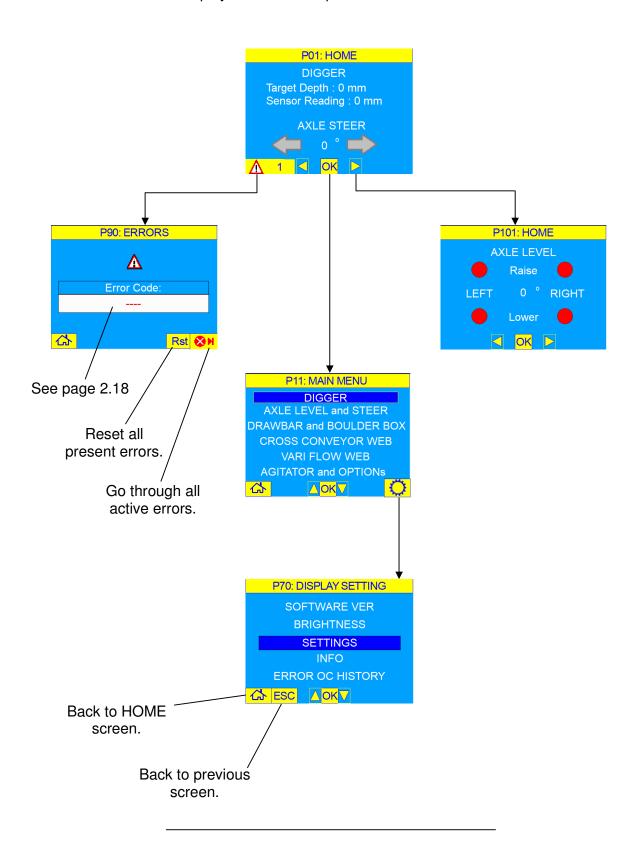
The system comprises of the control fascia which is connected to the input circuit board. The control box screen displays an overall illustration of the system and allows access to select and set operating parameters. The screen also gives access to a service menu which will allow the status of each function to be displayed.

On the machine, the power and control wires are taken onto a distribution board which allows the connection of the various control sensors and the fuses which cover all the power outputs. From the distribution board the master processor module is connected into the wiring loom which connects all the individual hydraulic valves.

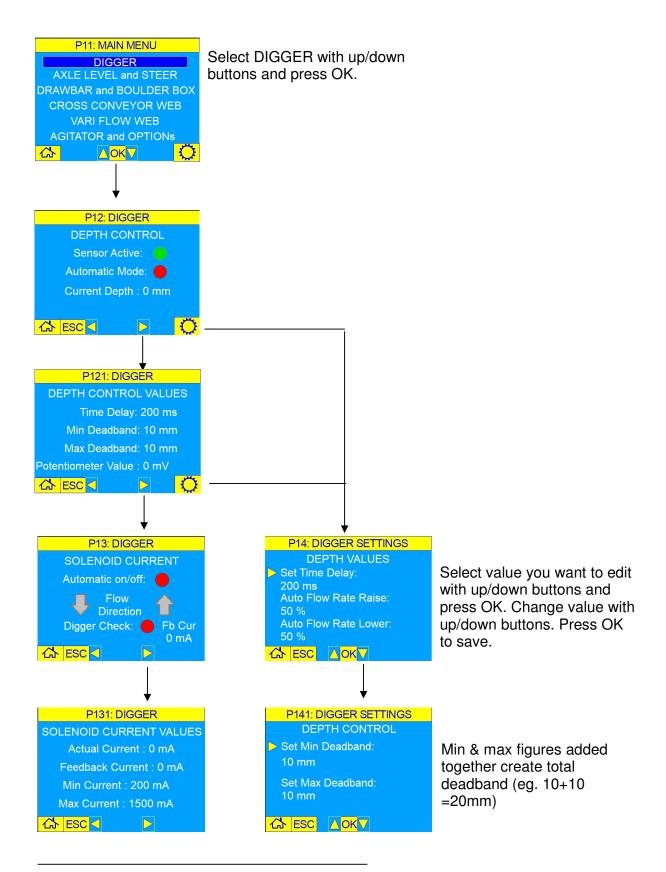
The switches on the control panel are designed to cover all build options. Depending on the specification of the machine, some functions will not be active.

HOME SCREEN

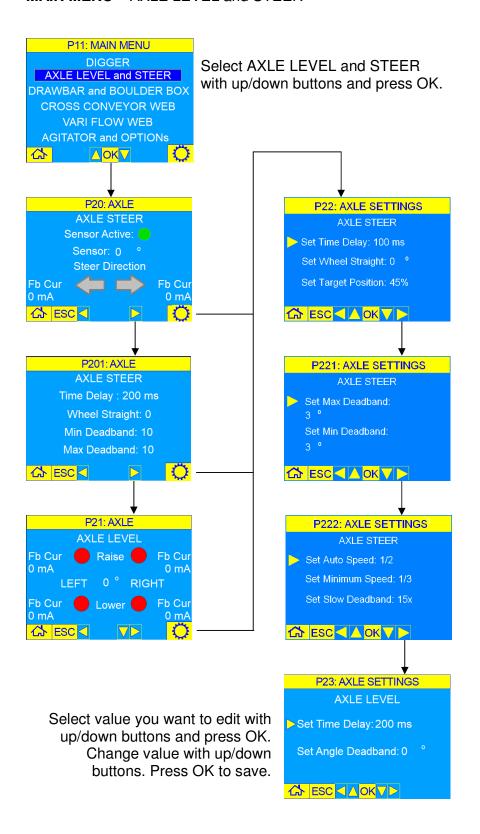
HOME screen is displayed after start-up.



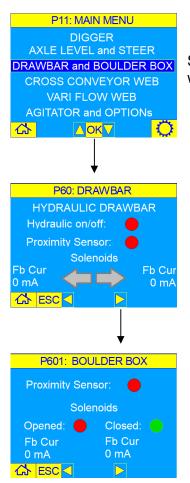
MAIN MENU - DIGGER



MAIN MENU - AXLE LEVEL and STEER

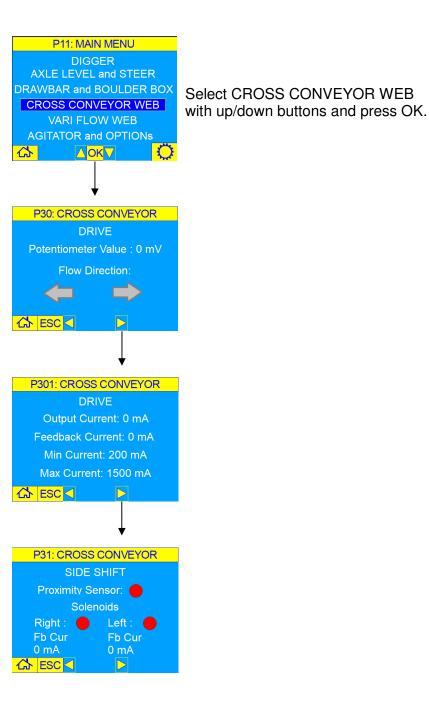


MAIN MENU - DRAWBAR and BOULDER BOX



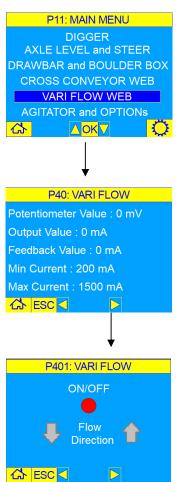
Select DRAWBAR and BOULDER BOX with up/down buttons and press OK.

MAIN MENU - CROSS CONVEYOR WEB



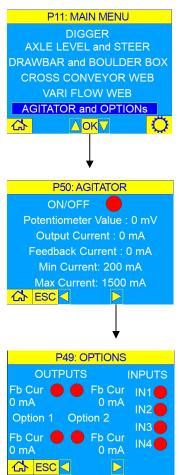
2.7 CAN-bus OPERATING INSTRUCTIONS

MAIN MENU - VARI FLOW WEB



Select VARI FLOW WEB with up/down buttons and press OK.

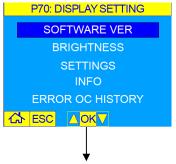
MAIN MENU – AGITATOR and OPTIONS



Select AGITATOR and OPTIONS with up/down buttons and press OK.

CAN-bus OPERATING INSTRUCTIONS

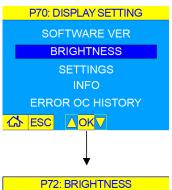
DISPLAY SETTING – SOFTWARE VERSION



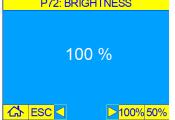
Select SOFTWARE VER with up/down buttons and press OK.



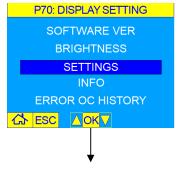
DISPLAY SETTING – BRIGHTNESS



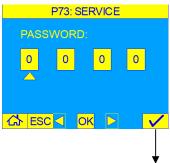
Select BRIGHTNESS with up/down buttons and press OK.



DISPLAY SETTING – DEALER SETTINGS



Select SETTINGS with up/down buttons and press OK.

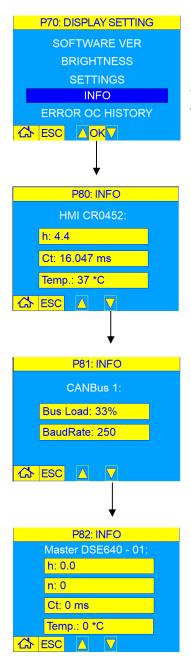


Enter password to access dealer settings in the SERVICE MENU. (Contact Standen Engineering).



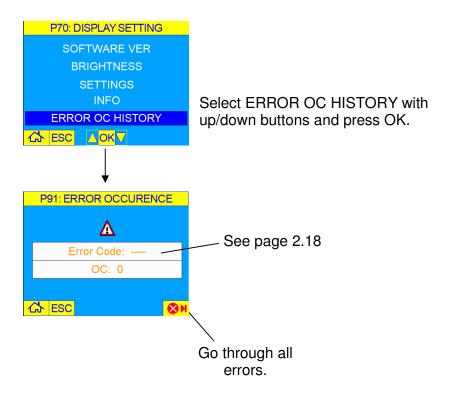
2.11 CAN-bus OPERATING INSTRUCTIONS

DISPLAY SETTING – INFORMATION



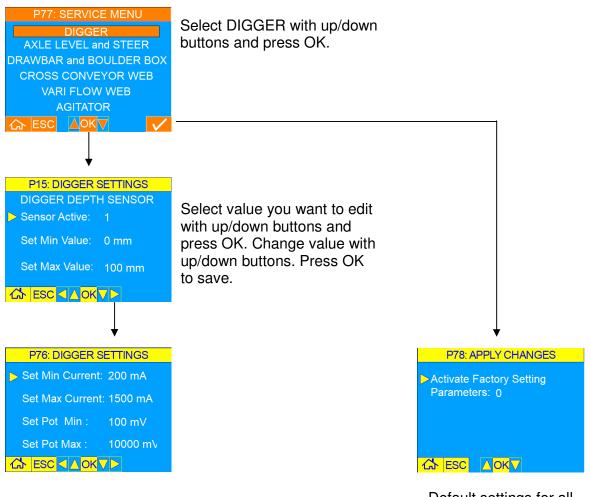
Select INFO with up/down buttons and press OK.

DISPLAY SETTING – ERROR OCCURRENCE HISTORY



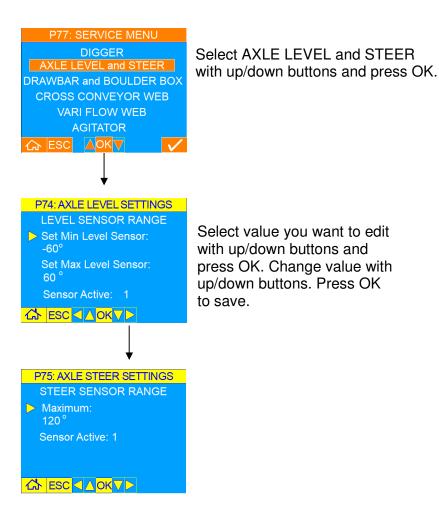
2.13 CAN-bus OPERATING INSTRUCTIONS

SERVICE MENU – DIGGER (dealer settings)



Default settings for all machine parameters set to 1.

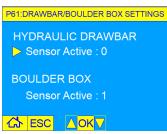
SERVICE MENU – AXLE LEVEL and STEER (dealer settings)



SERVICE MENU – DRAWBAR and BOULDER BOX (dealer settings)

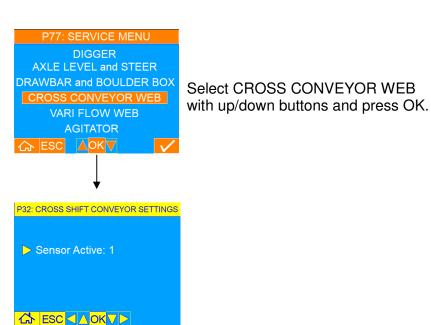


Select DRAWBAR and BOULDER BOX with up/down buttons and press OK.



Select value you want to edit with up/down buttons and press OK. Change value with up/down buttons. Press OK to save.

SERVICE MENU – CROSS CONVEYOR WEB (dealer settings)

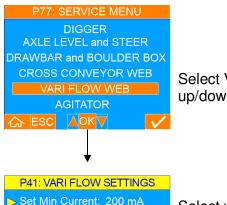




Select value you want to edit with up/down buttons and press OK. Change value with up/down buttons. Press OK to save.

2.17 CAN-bus OPERATING INSTRUCTIONS

SERVICE MENU – VARI FLOW WEB (dealer settings)



Select VARI FLOW WEB with up/down buttons and press OK.

P41: VARI FLOW SETTINGS

Set Min Current: 200 mA

Set Max Current: 1500 mA

Set Pot Min: 100 mV

Set Pot Max: 10000 mV

Ch ESC AOKV

Select value you want to edit with up/down buttons and press OK. Change value with up/down buttons. Press OK to save.

SERVICE MENU – AGITATOR (dealer settings)



Select AGITATOR with up/down buttons and press OK.



Select value you want to edit with up/down buttons and press OK. Change value with up/down buttons. Press OK to save.

ERROR CODES

Error code	Description	Cause	Action
1000			
1001	VB Voltage below normal or shorted low	Supply voltage out of range	Check the supply voltage of outputs
1002	Can Network 1 loss of communication; Wurth device or Master M640	CAN bus busy, error state or devices switched off	Check wiring, line resistors or supply voltage
1003	Depth sensor has an issue or out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1004	Digger Raise solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1005	Digger Lower solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1006	Digger Check solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1007	Digger potentiometer has an issue or out of range	Possibile situaton open ciruit, supply range or device defect	Check the wiring or supply connectors
1008	Axle level sensor has an issue or out of range	Possibile situaton open ciruit, supply range or device defect	Check the wiring or supply connectors
1009	Axle Level left solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1010	Axle Level left check solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1011	Axle Level right solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1012	Axle Level right check solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1013	Axle Steer sensor has an issue	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1014	Axle Steer left solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1015	Axle Steer right solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1016	Vari flow web forward solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1017	Vari flow web reverse solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1018	Vari flow web potentiometer has an issue or out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1019	Agitator solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1020	Agitator potentiometer has an issue or out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1021	Cross Drive web left solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1022	Cross Drive web right solenoid has an issue	Possibile situation of short druit or open ciruit	Check the wiring or soleniod connetor
1023	Cross Drive web potentiometer is out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1024	Drawbar Right solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1025	Drawbar Left solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1026	Drawbar sensor has an issue or out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1027	Cross Shift web left solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1028	Cross Shift web right solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1029	Boulder Box open solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1030	Boulder Box close solenoid has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1031	Boulder Box sensor has an issue or out of range	Possibile situation open ciruit, supply range or device defect	Check the wiring or supply connectors
1032	Loss of communication with Wurth device	Wurth device switched off, device defect or CANbus error state	Check wiring, line resistors or supply voltage
1033	Option1 output has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1034	Option2 output has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1035	Option3 output has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1036	Option4 output has an issue	Possibile situation of short ciruit or open ciruit	Check the wiring or soleniod connetor
1037	***********		
1038	************		
1039	***************************************		
1040			
UP-IN026			