PHC electronic systems

- Complete electronic control systems, plug-and-play
- Pre-setted functionality
- Customization on request
- Applicable on a wide range of directional valves
- Robust construction
- Suitable for general applications

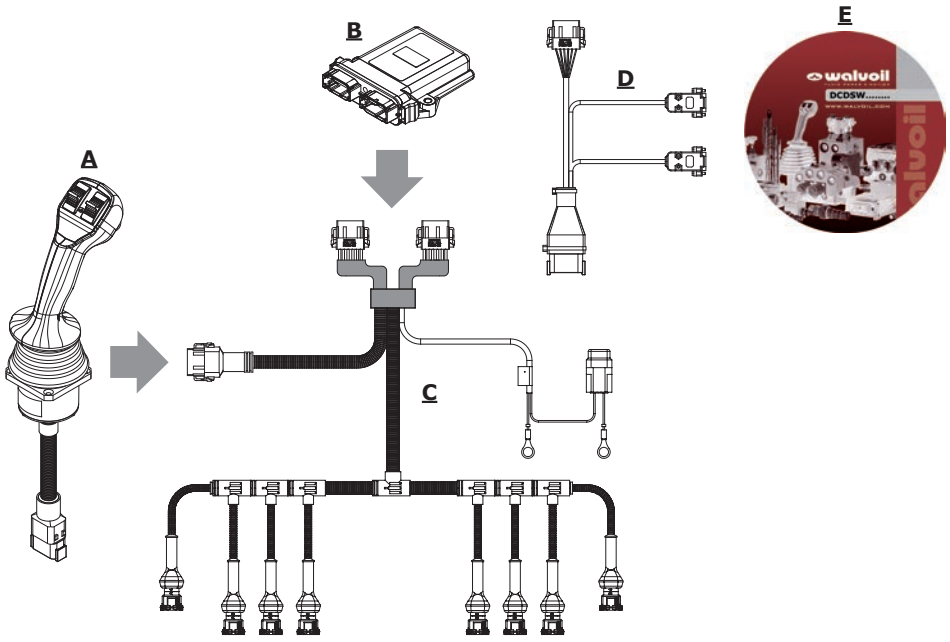
Working conditions								
General features		**PHC400F**	**PHC220C**	**PHC250C**	**PHC251C**	**PHC400C**	**PHC640C**	**PHC400P**
System type	potentiometric ratiometric	•						•
	CAN bus		•	•	•	•	•	
Proportional functions (nr.)		4	2	2	2	4	6	4
Float function management		•	•	•	•	•	•	•
Digital outputs (nr)		/	2	3	3	/	2	/
"Dead man" switch management		•	/	/	/	•	•	/
Return to dig		/	/	•	•	/	/	/
Fast-Slow		/	/	/	•	/	/	/

PHC400F

System description

The system can be used for 12VDC or 24VDC applications.
It allows to drive up to four functions/sections on the directional valve, all the controls are proportional.
The control signals come from an analog AJW joystick. CED400X control unit drives the directional valve.
The "dead man" switch enables all the functions; the float and the fast/slow signals are used to control the float and fast/slow functions.
Acceleration and decelerations ramp times are programmable and applicable to the machine movements for those applications that require to manage heavy loads.
Through a dedicated WST software, a few customizations can be set to adjust the system dynamic.

Code	**1XSE40002**
Description	PHC400F electronic system
Notes	12-24V application, 4 proportional functions (1 floating)



PHC400F parts

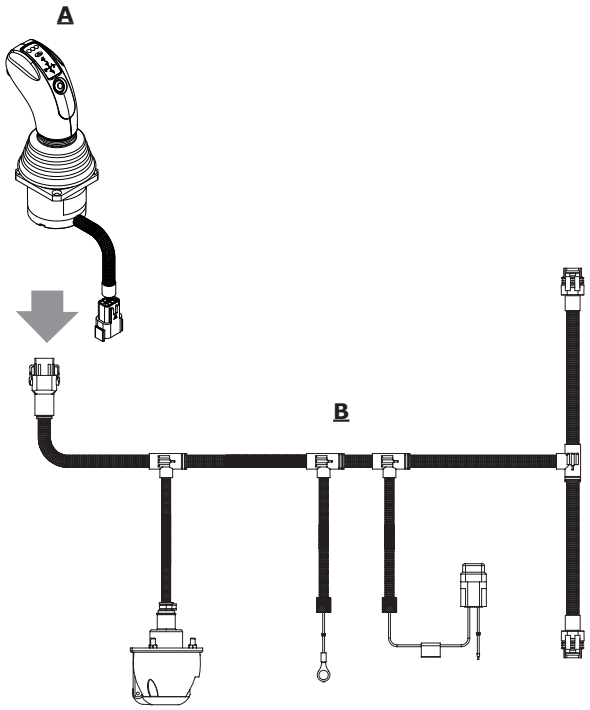
ID	Code	Type	Qty
A	**183540028**	AJW analog joystick: 4 proportional axis, "dead man" switch, 1 push-button	1
B	**183334003**	CED400X/PHC400F/v43.02 electronic control unit	1
C	**183480118**	KCD04 harness	1
D	**VCAV600018**	CED400X programming cable	1
E	**DCDSW0170051**	PHC/v2.0 SYSTEM WST software	1

PHC220C

System description

The system can be used for the front-end loader application, 12VDC.
It allows to drive up to two functions/sections on the directional valve, all the controls are proportional.
The control signals come from a CAN bus CJW joystick, that drives two mechatronic EME controls, which drive the directional valve.
The float signal is used to control the float function on the directional valve, two external diverter valve can be driven with one push-buttons from the joystick handle.

Code	**1XSE21002**
Description	PHC220C electronic system
Notes	12V application, 2 proportional functions (1 for floating), 4th function through diverter valves



PHC210C parts

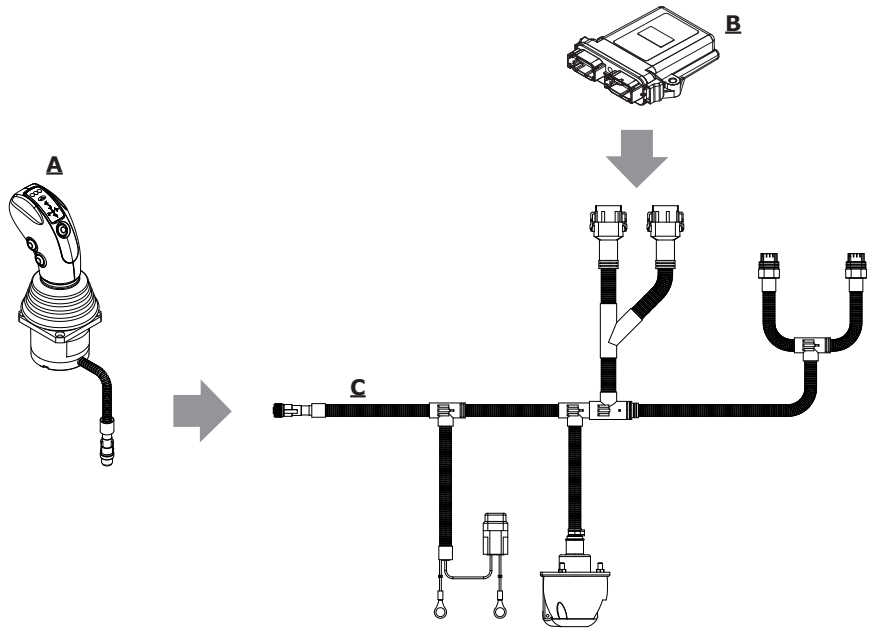
ID	Code	Type	Qty
A	**183530045**	CJW SAE J1939 joystick: 2 proportional functions, 2 ON/OFF switch, 3 push-buttons	1
B	**183480165**	KCD05 harness	1

PHC250C

System description

The system can be used for the front-end loader application, 12VDC.
It allows to drive up to two functions/sections on the directional valve, all the controls are proportional.
The control signals come from a CJW CAN bus joystick, that drives two mechatronic EME controls, which drive the directional valve.
The float and return to dig functions are available on the directional valve, three external diverter valves can be driven with the push-buttons from the joystick handle.

Code	**1XSE21006**
Description	PHC250C electronic system
Notes	12V application, 2 proportional functions (1 floating), 3rd, 4th and 5th function for diverter valves, return to dig sensors



PHC250C parts

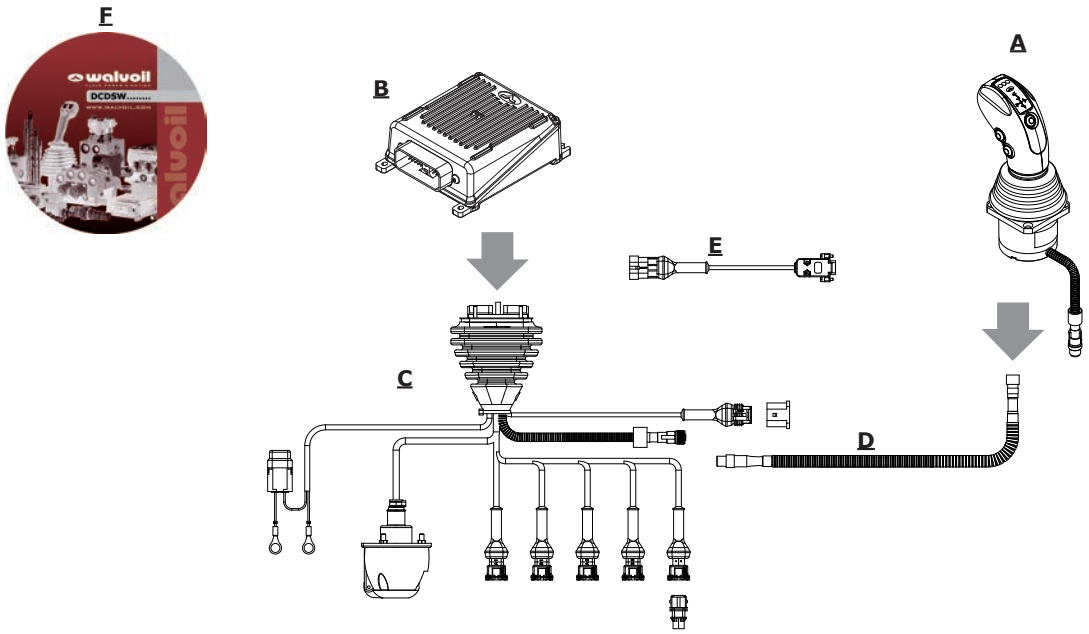
ID	Code	Type	Qty
A	**183530044**	CJW SAE J1939 joystick: 2 proportional functions, 1 ON/OFF switch, 6 push-buttons	1
B	**183360010**	CED040/PHC250C-12V/v06.00 electronic control unit	1
C	**183480166**	KCD05 harness programming cable	1

PHC251C

System description

The system can be used for the front-end loader application, 12VDC.
It allows to drive up to two functions/sections on the directional valve, all the controls are proportional.
The control signals come from a CJW CAN bus joystick. CED252 control unit drives the directional valve.
The float, Fast/Slow and return to dig functions are available on the directional valve, three external diverter valves can be driven with the push-buttons from the joystick handle.
Through a dedicated WST software, the diagnostic on the system can be executed.

Code	**1XSE21007**
Description	PHC251C electronic system
Notes	12V application, 2 proportional functions (1 floating), 3rd, 4th and 5th function for diverter valves, return to dig sensors



PHC251C parts

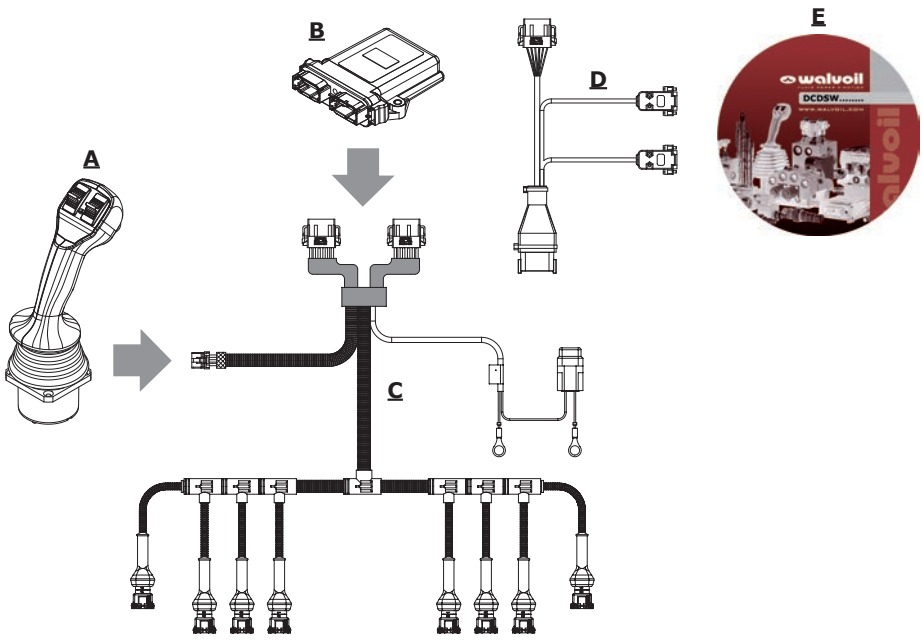
ID	Code	Type	Qty
A	**183530044**	CJW SAE J1939 joystick: 2 proportional functions, 1 ON/OFF switch, 6 push-buttons	1
B	**183350025**	CED252/PHC251C/v40.25 electronic control unit	1
C	**183480167**	KCD09 harness	1
D	**183490001**	extension for joystick connection , L=4m (*157.48 in*)	1
E	**VCAV600014**	CED252 programming cable	1
F	**DCDSW004005**	WST/FLC/v11.01 software	1

PHC400C

System description

The system can be used for 12VDC or 24VDC applications.
It allows to drive up to four functions/sections on the directional valve, all the controls are proportional.
The control signals come from a CAN bus CJW joystick. CED400X control unit drives the directional valve.
The "dead man" switch enables all the functions; the float and the fast/slow signals are used to control the float and fast/slow functions.
Acceleration and decelerations ramp times are programmable and applicable to the machine movements for those applications that require to manage heavy loads.
Through a dedicated WST software, a few customizations can be set to adjust the system dynamic.

Code	**1XSE40003**
Description	PHC400C electronic system
Notes	12-24V application, 4 proportional functions (1 floating)



PHC400C parts

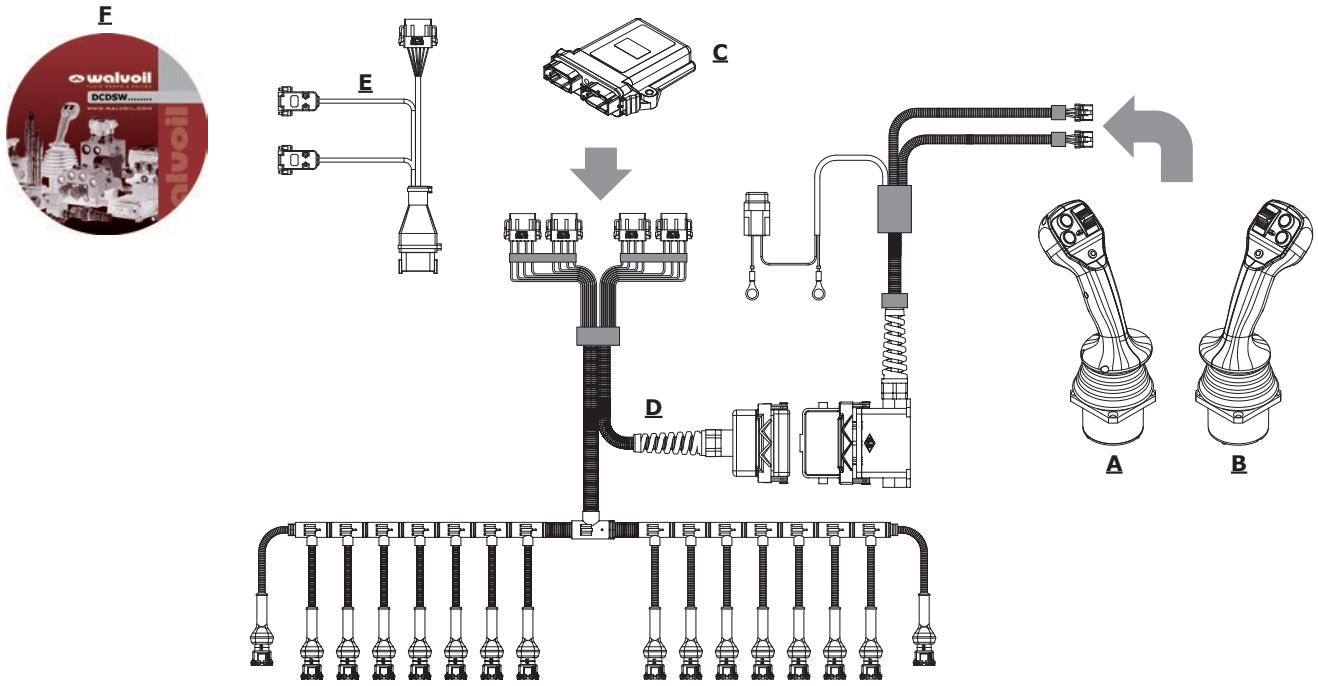
ID	Code	Type	Qty
A	**183530011**	CJW CAN bus joystick: 4 proportional axis, "dead man" switch, 1 push-button	1
B	**183338007**	CED400X/PHC400C/v73.01 electronic control unit	1
C	**1834800168**	KCD04 harness	1
D	**VCAV600018**	CED400X programming cable	1
E	**DCDSW0170088**	PHC/v2.0 SYSTEM WST software CAN bus	1

PHC640C

System description

The system can be used for 12VDC or 24VDC applications.
It allows to drive up to eight functions/sections on the directional valve; six controls are proportional, two controls are on/off actuated.
The control signals come from a CAN bus CJW joystick. CED400X control units drive the directional valve.
The "dead man" switch enables all the functions.
Acceleration and decelerations ramp times are programmable and applicable to the machine movements for those applications that require to manage heavy loads.
Through a dedicated WST software, a few customizations can be set to adjust the system dynamic.

Code	**1XSE40004**
Description	PHC640C electronic system
Notes	12-24V application, 6 proportional functions, 2 on/off functions



PHC640C parts

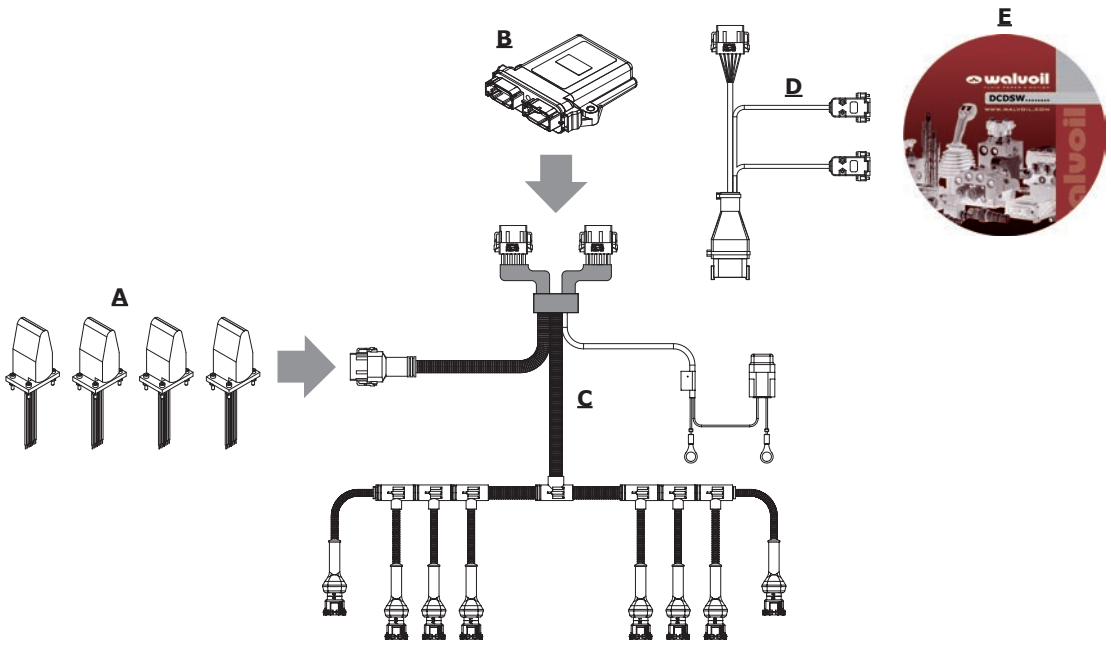
ID	Code	Type	Qty
A	**183530012**	CJW CAN bus joystick: 3 proportional functions, "dead man" switch, 2 push-buttons, 1 LED, left configuration	1
B	**183530013**	CJW CAN bus joystick: 3 proportional functions, "dead man" switch, 2 push-buttons, 1 LED, right configuration	1
C	**183338007**	CED400X/PHC400C/v73.01 electronic control unit	1
D	**183480169**	KCD03 harness	1
E	**VCAV600018**	CED400X programming cable	1
F	**DCDSW0170088**	PHC/v2.0 SYSTEM WST software CAN bus	1

PHC400P

System description

The system can be used for 12VDC or 24VDC applications.
It allows to drive up to four functions/sections on the directional valve, all the controls are proportional.
The control signals come from four single axis analog joysticks. CED400X control unit drives the directional valve.
The 'operator presence' switch enables all the functions, the float and the fast/slow commands are used to control the float and fast/slow functions.
Acceleration and decelerations ramp times are programmable and applicable to the machine movements for those applications that require to manage heavy loads.
Through a dedicated WST software, a few customizations can be set to adjust the system dynamic.

Code	**1XSE40005**
Description	PHC400P electronic system
Notes	12-24V application, 4 proportional functions (1 floating)



PHC400P parts

ID	Code	Type	Qty
A	**VJOY200001**	MDN142 potentiometric joystick: 1 proportional axis with redundancy	4
B	**183334003**	CED400X/PHC400F/v43.02 electronic control unit	1
C	**183480118**	KCD04 harness	1
D	**VCAV600018**	CED400X programming cable	1
E	**DCDSW0170051**	PHC/v2.0 SYSTEM WST software	1