



Hydraulic Remote Controllers Build Program

Joysticks *PCL401*

Stackables *PCL402*

Foot Pedals *PCL402*

Bulletin HY14-1800/US



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Forestry



Material Handling



Construction



! WARNING

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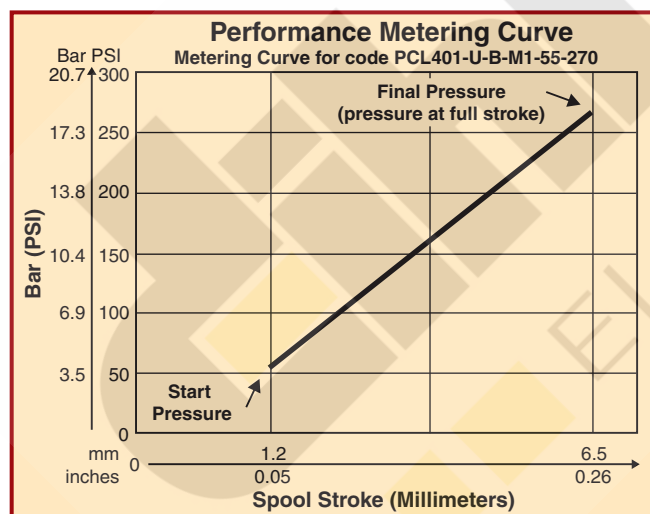
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Parker PCL Build Program

The PCL Build Program is designed to help a stocking distributor increase the value and services offered to their customers. This is accomplished by having the in-house capability of being responsive to your customer's needs. A wide variety of kits facilitate the conversion and customization of these controllers with a minimum amount of inventory.

Joysticks and stackable controllers have custom spring packs that are matched to our control valves and optimize controllability and machine performance.

The type of curve selected for the controllers in the program is referred to as "straight-line metering". This means that the "start pressure" and "final pressure" of the controller is linear. Here is a sample of this type of curve.



Here is a list of documentation available to support this product:

- ☐ PCL4 Catalog HY17-8357/UK
- ☐ Catalog CD HY14-1800/US – includes the bulletin, the catalog, spare parts list, service and assembly documentation, PowerPoint sales presentation, and DXF engineering drawings.



The basic kits for the program are:

- Joysticks and stackables with no handle.
- Handle kits.
- Detent kits.
- Footpedal conversion kits.
- Stud kits.
- Spring pack kits.
- Service kits.

Reference information:

Joysticks

- All ports are SAE 6.
- All ports (P,T,1,2,3,4) are located on the bottom of the housing.
- Mounting plate is code M1.
- Boots are included in the handle kits.

Stackables

- All ports are SAE 6.
- Pump and tank ports are located on the side of the housing. Ports A&B are located on the bottom of the housing.
- Mounting plate is code M3.
- Boots are included in the handle kits.

PCL401 Joystick and PCL402 Stackable Controllers

PCL401	Control Valve Match	Pressure Range (psi)		Part Number
		Start	Final	
Joystick	V10,V11,V20,V26,V42,V50,V56,V70,V86,V90	55	328	PCL401-U-B-M1-55-328
Joystick	VA/VG20, VA/VG35 & VO40	100	330	PCL401-U-B-M1-100-330
Joystick	PC25 & PC55	100	410	PCL401-U-B-M1-100-400
Joystick	F130CF, L90, P70 & VP/VPO/VPL	75	260	PCL401-U-B-M1-75-260
Joystick	F130CP	90	390	PCL401-U-B-M1-90-390
Joystick	K170 & K220	80	310	PCL401-U-B-M1-80-310
Joystick	CI & Gresen controllers metered with Forced Open	50	220	PCL401-U-B-M1-50-220-FO
Joystick	CI & Gresen controllers metered with Forced Open	100	300	PCL401-U-B-M1-100-300-FO

PCL402	Control Valve Match	Pressure Range (psi)		Part Number
		Start	Final	
Stackable	V10,V11,V20,V26,V42,V50,V56,V70,V86,V90	55	328	PCL402-U-S-M3-55-328
Stackable	VA/VG20, VA/VG35 & VO40	100	330	PCL402-U-S-M3-100-330
Stackable	PC25 & PC55	100	400	PCL402-U-S-M3-100-400
Stackable	F130CF, L90, P70 & VP/VPO/VPL	75	260	PCL402-U-S-M3-75-260
Stackable	F130CP	90	390	PCL402-U-S-M3-90-390
Stackable	K170 & K220	80	310	PCL402-U-S-M3-80-310
Stackable	CI & Gresen controllers metered with Forced Open	50	220	PCL402-U-S-M3-50-220-FO
Stackable	CI & Gresen controllers metered with Forced Open	100	300	PCL402-U-S-M3-100-300-FO

PCL401 Joystick Handle Kits

- Includes standard round boot & loose lead wires for electric switch handles

Description	Part Number
PCL401-H1B, Straight ball handle	9120059052
PCL401-H1W, Straight handle with knob and removable plastic window	9120089358
PCL401-E0, Electric switch handle with no switches	9120089507
PCL401-E1, Electric (on/off) switch handle with 2 position thumb switch	9120059053
PCL401-E2, Electric (on/off) switch handle with 3 position toggle switch	9120059054
PCL401-N0, Electric ergonomic straight handle with no switches	9120089606
PCL401-N2T, Electric (on/off) ergonomic straight handle with 2 thumb switches & 1 finger switch	9120089667
PCL401-N4T, Electric (on/off) ergonomic straight handle with 4 thumb switches & 1 finger switch	9120089613

PCL401 Handle Conversion Kits

From/To	Part Number
Tilt lt/rt stem, PCL401-TLSTEM	PCL401-TLSTEM
Straight, PCL401-STSTEM	PCL401-STSTEM

PCL402 Handle Kits

- includes standard boot and loose leads for electric switch handles

Description	Part Number
PCL401-H3-B, Straight ball handle	9120089362
PCL402-H4-B, Bent handle with ball knob - .59" offset	9120089363
PCL402-H5B, Bent handle with ball knob - 1.18" offset	9120089364
PCL402-H6B, Bent handle with ball handle - 1.77" offset	9120089365
PCL402-H3-W, Straight handle with knob and removable plastic window	9120089367
PCL402-H4-W, Bent handle with knob and removable plastic window - .59" offset	9120089368
PCL402-H5-W, Bent handle with knob and removable plastic window - 1.18" offset	9120089369
PCL402-H6-W, Bent handle with knob and removable plastic window - 1.77" offset	9120089370
PCL402-E0, Electric switch handle with no switches	9120089538
PCL402-E1, Electric (on/off) switch handle with 2 position thumb switch	9120089372
PCL402-E2, Electric (on/off) switch handle with 3 position thumb switch	9120089373

PCL402 Stackable Controllers

PCL402 Detent Kits (use PCL402 handle kits)

Description	Part Number
PCL402-MD2, Mechanical detent for ports A&B	9120089614
PCL402-S2, Friction detent. (Note: 35mm spacer req'd if another section stacked adjacently)	9120089352
PCL402-S2-H, Lever bracket kit for code H type handle	9120089377
PCL402-S2-E, Lever bracket kit for code E type handle	9120089378

PCL402 Marine Handle Parts

	Part Number
PCL402-M3-SS, Mounting plate - Code M3 out of stainless steel	9120089712
PCL402-B-SS, Hand Lever - Code B out of stainless steel	9120089713

Spacer Block 35mm wide. Same as PCL402 section width. Does not include section seals.	91262411
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Footpedal Kits - converts a standard PCL402

Code F. Steel stamped footpedal with required hardware. Includes M5 mounting plate.

	Part Number
- PCL402-F-PK, Pedal Kit	9120089309
- PCL402-F-MBK, Mounting/Bearing Plate Assembly	9120089310
- PCL402-C6-PPS, C6 spring push pin set	9120089398

Code A36. Cast aluminum footpedal with required hardware. Includes M5 mounting plate.

	Part Number
- PCL402-A36-PK, Pedal Kit	9120089659
- PCL402-A36-MBK, Mounting/Bearing Plate Assembly	9120089660
- PCL402-C6-PPS, C6 spring push pin set	9120089398

Stud Kits (includes seals)

	Part Number
PCL402-2-SK, 2 sections	9120 0893 59
PCL402-3-SK, 3 sections	9120 0893 03
PCL402-4-SK, 4 sections	9120 0893 04
PCL402-5-SK, 5 sections	9120 0893 05
PCL402-6-SK, 6 sections	9120 0893 06

Spring Packs

	Start	Final	Part Number
SP-55-328-SL, V10, V11, V20, V26, V42, V50, V56, V70, V86, V90	55	328	9126181859
SP-100-330-SL, VA/VG20, VA/VG35 & VO40	100	330	9126181824
SP-100-410-SL, PC25, PC55	100	410	9126181825
SP-75-260-SL, F130CF, L90, P70	75	260	9126181826
SP-90-400-SL, F130CP	75	400	9126181827
SP-80-310-SL, K170, K220	80	310	9126181828
Matches curve for former CI & Gresen controllers	50	220	9126181830-FO
Matches curve for former CI controllers	100	300	9126181815-FO

Service Kits

	Part Number
- Push pin seal kit (1 kit needed for each push pin)	9120089332
- PCL402 section seal (2 needed per section)	06636127
- PCL402 plug kit (needed to plug side P&T UNF ports)	9120089329
- PCL402 pin/bushing kit for A36 footpedal	9120089661
- Cable 3/0.34/650 MM, for code E handles, no connector	9120089681
- Cable assembly N2T, no connector	9120089683
- Cable assembly N2, no connector	9120089684
- Cable assembly N4, no connector	9120089685
- Cable assembly N4T, no connector	9120089686
- Cable assembly N4T, Deutch/640 MM	9120089687
- Cable assembly N4T, Deutch/900 MM	9120089688
- Shim Kit (4000 total pieces)	20016558

PCL4		-		-	U	-		-		-		-		
	Valve Type		Control Pressure Ports		Thread Connection		Pump and Tank Connection		Mounting Plate		Lever Unit		Lever Type	

Code	Description
01	For coordinate lever
02	For linear lever(s) or pedal

Number of Control-Pressure Ports	
4	
6	
8	
10	
12	

Code	Description
U	9/16-18 UNF-2B

Code	Description
M1	Mounting plate for PCL401
M3	Mounting plate for PCL402

Code	Description
B	Pump and tank connections on underside of valve
S	Pump and tank connections on side of valve

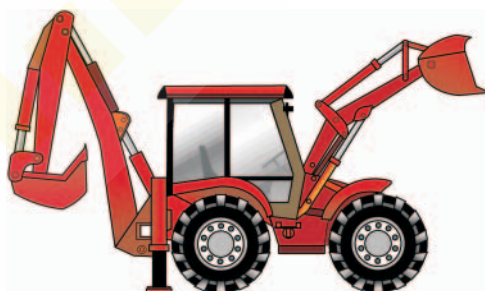
Code	Description
S	Straight *
L	Bent to the left *
R	Bent to the right *
B	Ball **
W	Window **

*Type N levers only
** Type H levers only

Code	Description
H1	Coordinate Lever
H3	Straight linear lever
E1	Linear or coordinate lever 2-position thumb switch
E2	Linear or coordinate lever 3-position toggle switch
N0	Coordinate lever without thumb switch
N2T	Coordinate lever with 3 thumb switches
N4T	Coordinate lever with 4 thumb switches
F	Pedal, pressed steel
A36	Pedal, cast aluminum



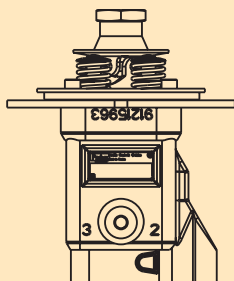
Wheel Loader



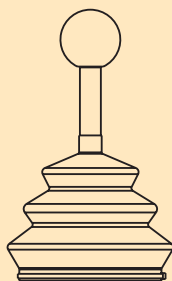
Backhoe Loader



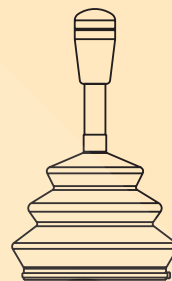
Fork Lift



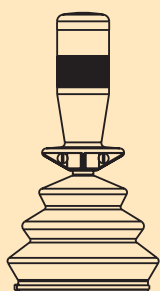
PCL401-M1



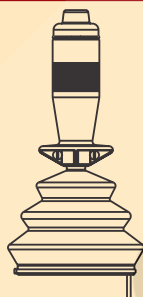
PCL401-H1B



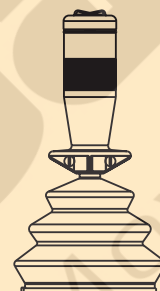
PCL401-H1W



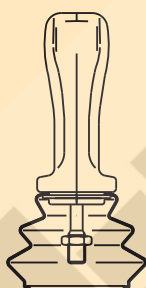
PCL401-E0



PCL401-E1



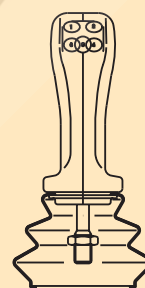
PCL401-E2



PCL401-N0



PCL401-N2T

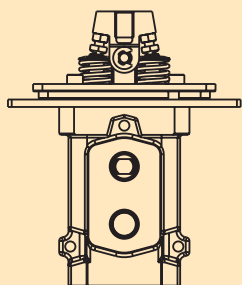


PCL401-N4T

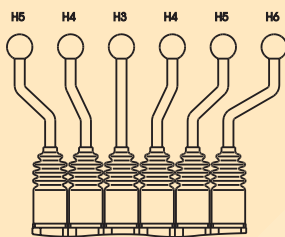


PCL401-TLSTEM

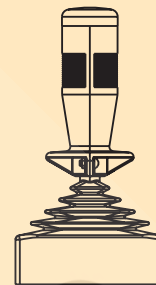




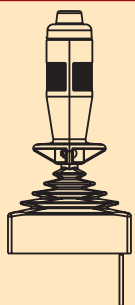
PCL402-M3



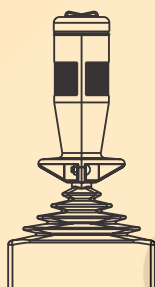
PCL402-H3B-H6B



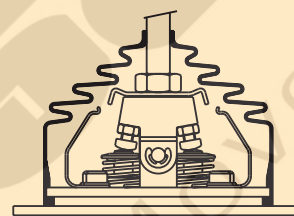
PCL402-E0



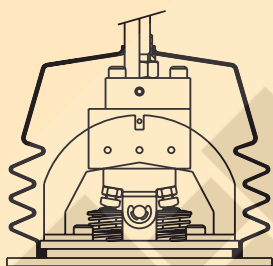
PCL402-E1



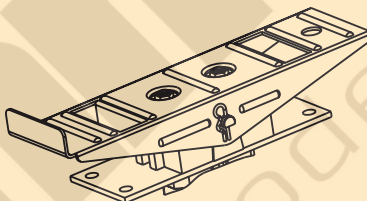
PCL402-E2



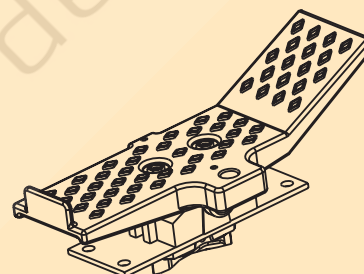
PCL402-MD2



PCL402-S2



PCL402-F



PCL402-A36

