

**Genius Harness Instructions:
SG-BPH-14-6-9-DP**

The BPH-14 harness is shipped with a standard pin-out, which is the most common for modern day machines. This pin-out follows the Bobcat standard, which covers Kubota, Daewoo, Takeuchi, Mustang, Case, Gehl, Volvo & New Holland. There are two exceptions to the rule. Cat D-Series which uses the first four connections and then on control 5 & 6 they change. John Deere is extra sneaky by changing the ground wire so nothing works. In an effort to keep costs down as well as our SKU's, we ship the same harness for all machines. Only these two machines will require some additional work. Here are the instructions particular to your machine.

Cat D-Series: Move the Blue wire from G to A. Move the White with black stripe wire from H to J.

John Deere: Move the Black wire from B to A.

On the back of the connector, there are two slotted screws. Undo them until they are very loose and then twist the top of the strain relief until it comes off. Look inside the back of the connector and you will see some white plugs. Using a long slender item like a jewelers screwdriver you want to push of the pins that you will be moving a connection to. ie - John Deere - Push the A plug out and move it to once you remove the socket wire.



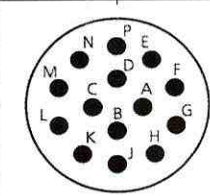
Now it is time to move the connection. There is a little plastic tool included in your kit. This is a single use pin/socket removal tool. Handle it gently and you could have it for many uses. Jam it down hard and it will immediately break. Gently slide this tool around the wire that you need to move and slowly slide it down the wire and into the rubber boot. You will feel it restrict and tighten. Give it a slight turn and keep pushing and you will feel a definite click as it dislodges the locking collar. If this does not happen, pull it back and try again or add some water-soluble lubricant. Never force it. Once it clicks into place, you can pull on the wire or use a tool to push the socket out from the face side. Slide the socket into the new position and make sure it seats so that you can see it on the face of the connector.



Refer to video #100 on our web site showing these steps as well if you are having trouble.

Skid Steer Genius
 Skid Steer Loader Electronic Pin-Out - 4 & 6 Port Cables
 Revision February 2019

Pin	A	B	C	D	E - White Wire	F	G	H-Wh/BK Stripe	J	K	L	M	N	P
Bobcat 14 Pin	LH L/R	(-) GND	LH Center - L	LH Center - R	LH Right - Up	LH Right - Dn	RH -L Side - Up	RH -L Side - Dn	Open	(+12V)	Aux Hy Enable Jumper K to L to lock out hydraulic pump control	Open	Open	Open
Case 14 Pin	N/A	(-) GND	Button 2 LH Handle - Dn	Button 2 LH Handle - Up	Button 1 RH Right - Up	Button 1 RH Right - Dn	Button 3 LH Handle - Up	Button 3 LH Handle - Dn	Signal Power	Keyed (+12V)	EHF Interlock	N/A	N/A	N/A
Cat 14 Pin	LH Trigger AUX 7 Push Rabbit First	(-) GND	C- Control - Aux 5 - Lower Right Button	C+ Control - Aux 6 - Upper Right Button	C2 Control - Aux 4	C1 Control - Aux 3	N/A	N/A	Aux 8 Switch On/Off Locking	For XPS Machines HF Jumper B - K	N/A	N/A	For XHP Machines HF Jumper B - N	N/A
JCB/Volvo 14 Pin	N/A	(-) GND	C-SW FWD	C-SW BWD	D-SW FWD	D-SW BWD	F-SW FWD	F-SW BWD	N/A	(+12V)	N/A	N/A	N/A	N/A
John Deere	(-) GND		Right Down	Left Down	Left Up	Dash Right	Right Up	Dash Left	N/A	N/A	N/A	N/A	N/A	N/A
Kubota 14 Pin SVL75/90/95 2017 and prior	N/A	(-) GND	LH Switch	RH Switch	N/A	N/A	N/A	N/A	N/A	(+12V)	N/A	N/A	N/A	N/A
Kubota 14 Pin SSV Controls 2017+ Hand/Foot	N/A	(-) GND	LH Stick Center Toggle Down	LH Stick Center Toggle Up	RH Stick Left Button	RH Stick Right Button	RH Stick Left UP/DN Toggle Up	RH Stick Left UP/DN Toggle Dn	Electrical Mode Change	(+12V)	N/A	N/A	N/A	N/A
Kubota 14 Pin SSV Controls 2017+ ISO	N/A	(-) GND	Left Stick Left Switch	Left Stick Right Switch	Right Stick Toggle Left	RH Stick Toggle Right	Left Stick Toggle Right	Left Stick Toggle Left	Electrical Mode Change	(+12V)	N/A	N/A	N/A	N/A
Kubota Extended 14 Pin Add-on Kit, Plastic button	N/A	(-) GND	Button #1	Button #2	Button #3	Button #4	Button #5	Button #6	Button #7 - Not Supplied	(+12V)	N/A	N/A	N/A	N/A
New - NH 14 Pin	N/A	(-) GND	LH #3 - DN	LH #3 - UP	RH #1 - UP	RH #1 - DN	HANDLE #2 - UP	HANDLE #2 - DN	ON/OFF ATT Signal Power	(+12V)	N/A	N/A	N/A	N/A
Old - NH 14 Pin	N/A	(-) GND	SW3 MOM DN	SW MOM UP	SW1 MOM UP	SW1 MOM DN	SW2 MOM DN	SW2 MOM UP	ON/OFF	(+12V)	N/A	N/A	N/A	N/A
Takeuchi -	N/A	(-) GND	SW1 UP - R Joy/L Up	SW 1 DN - R Joy/L Down	SW 2 UP - Rjoy/R Up	SW 2 DN - R Joy/R Down	Console	Console	R Joy Trigger - Need to re-pin	(+12V)	N/A	N/A	N/A	N/A
Yanmar	N/A	(-) GND	SW1 UP	SW 1 DN	SW 2 UP	SW 2 DN	SW3 UP	SW3 DN	N/A	(+12V)	N/A	N/A		
Mustang	N/A	(-) GND	SW1 UP	SW 1 DN	SW 2 UP	SW 2 DN	SW3 UP	SW3 DN	N/A	(+12V)	N/A	N/A		
Gehl	SW 4	(-) GND	SW1 UP	SW 1 DN	SW 2 UP	SW 2 DN	SW3 UP	SW3 DN	N/A	(+12V)	N/A	N/A		
Terex	(-) GND	LH-SW Dn	LH - Right	LH- Left	(-) GND	Seat SW	LH - Up	N/A	N/A	N/A	N/A	N/A		
Wacker 14 Pin	N/A	(-) GND	LH Center - L	LH Center - R	LH Right - Up	LH Right - Dn	N/A	N/A	N/A	(+12V)	N/A	N/A		



18-14
 14 size 16

The wire colors shown are for reference when setting up your attachment. Each wire aligns with a pin control on your electrical connection and then with your buttons on your sticks. Depending on how your machine was ordered, you may or may not have all of the buttons in place to make your attachment work. Getting Started: Hydraulics first. Make sure your hydraulics are going in the right direction. For most machines, the male on your machine is pressure. For Bobcat it is the female. Swap the couplers on the end of the hoses if your pressure line does not go to the hydraulic block to a connection that has a P stamped next to it. Take the green & orange pair of wires first and plug them into your first stack of solenoids. Start your machine, turn on your hydraulics and push the two buttons that correspond to these colors on your sticks. There should be some movement. You can follow the color to the solenoid that is making the motion and with a sharpie, write it down on the solenoid. Repeat this process on each stack of solenoids until you have detail on what each solenoid does. Look at the guide above and then plug each wire color into each function as you want it to operate. It will never be the same as Bobcat because their buttons are in different places compared to every other manufacturer. Troubleshooting: If nothing works, check your fuses, harness condition of your machine, hydraulic direction. If one or two work, check your harness condition and switches. If you never used them before, maybe they are damaged or not connected. The BPH harnesses are factory tested but will only work if your machine is in working condition and all of the buttons are present. Any other issues, check our web site first for instructional videos. Chances are we have covered this.