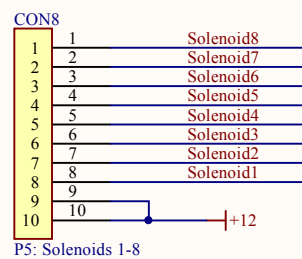
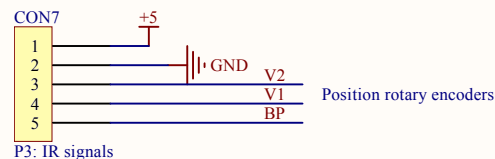
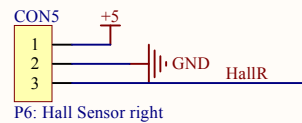
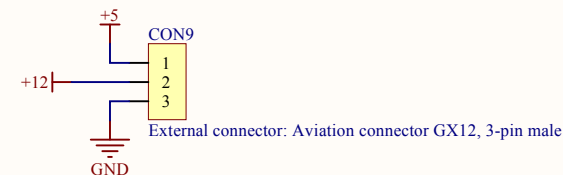
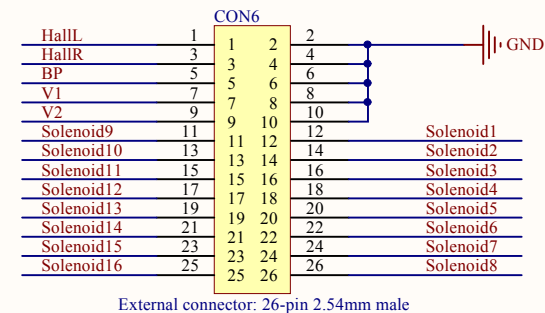
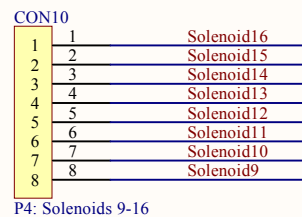


Hall Sensor signals, measured:
~1.7-2.0V open (no magnet)
~3.8V closed (with magnet)



Solenoid numbering looking at machine counting left-to-right



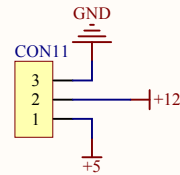
Title		
KH-930 internal wiring		
Size	Number	Revision
A4		
Date:	01.09.2018	Sheet 1 of 3
File:	Internal.SchDoc	Drawn By:

1

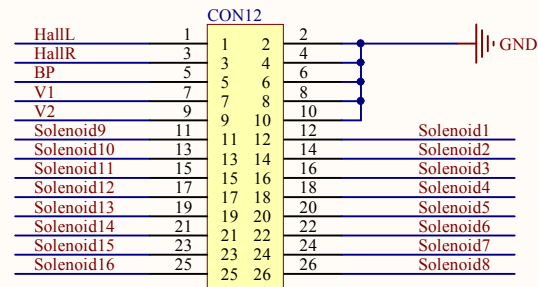
2

3

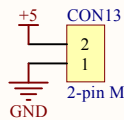
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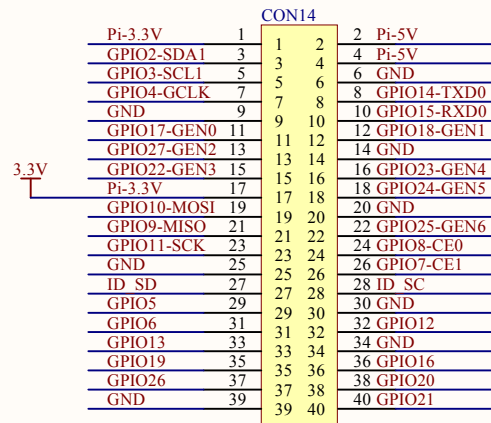
Aviation connector GX12, 3-pin male



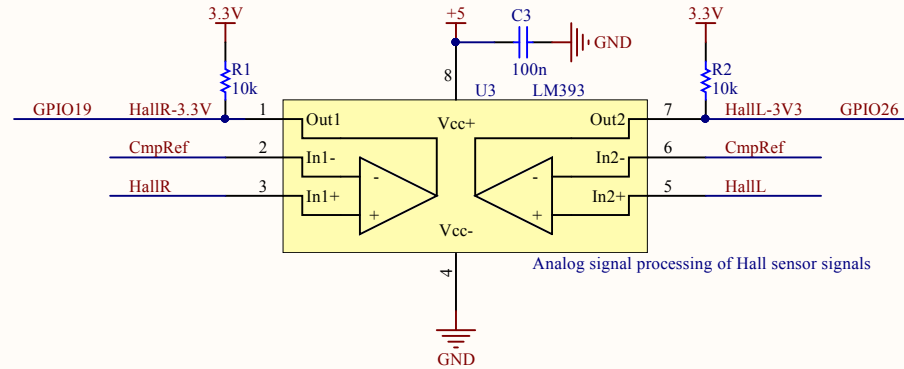
26-pin 2.54mm male, to knitting machine



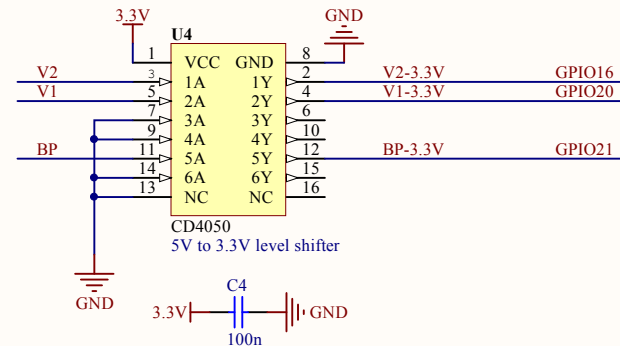
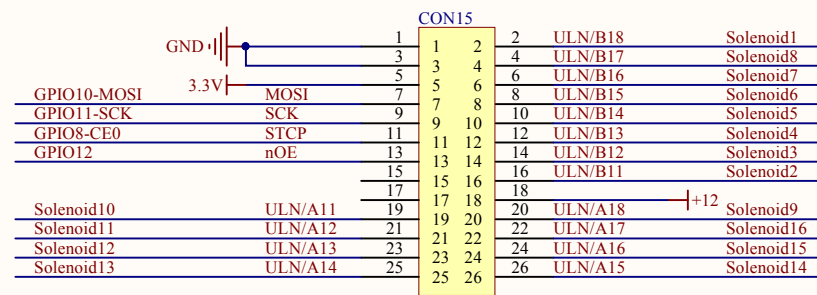
2-pin Molex, supplies power to Raspberry Pi



Connector to Raspberry Pi 3 B+ Revision 1.0



Analog signal processing of Hall sensor signals

CD4050
5V to 3.3V level shifter

26-pin 2.54mm male, to upper piggyback/driver PCB

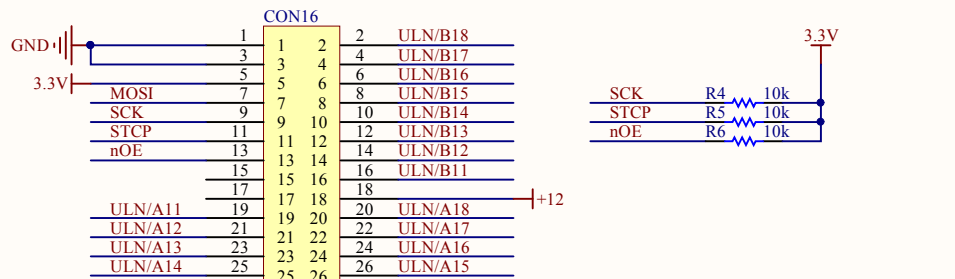
Title Raspberry Pi connector PCB / analog signal processing		
Size A4	Number	Revision
Date:	01.09.2018	Sheet 2 of 3
File:	External-Lower.SchDoc	Drawn By:

1

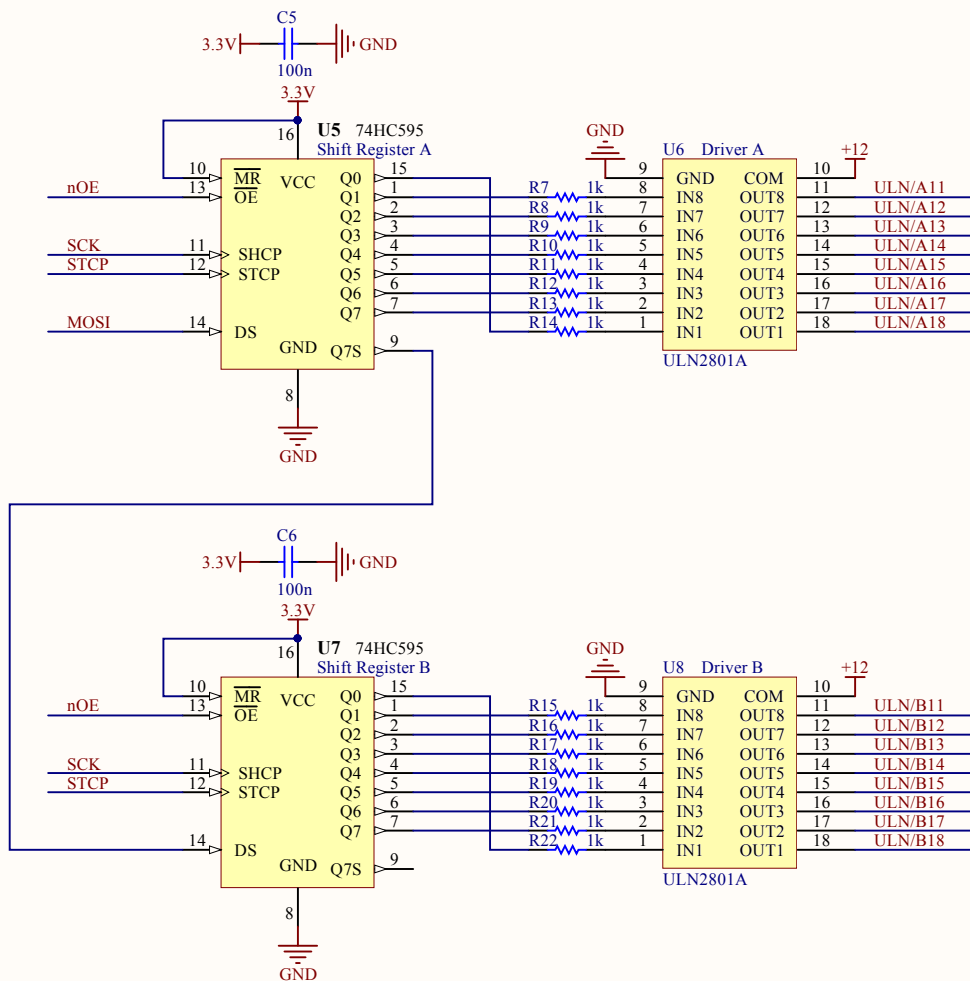
2

3

4



26-pin 2.54mm male, connected to lower PCB



Title		
Upper piggyback PCB / serial-to-parallel multiplexers and drivers		
Size	Number	Revision
A4		
Date:	01.09.2018	Sheet 3 of 3
File:	External-Upper.SchDoc	Drawn By: