

# Chrysler CCD/SCI Scanner

Hardware for interfacing Chrysler's legacy CCD/SCI-bus.

Sheet: Connectors



File: connectors.sch

Sheet: Power supply



File: power\_supply.sch

Sheet: Microcontroller



File: microcontroller.sch

Sheet: USB



File: usb.sch

Sheet: CCD-bus transceiver



File: ccd-bus\_transceiver.sch

Sheet: SCI-bus transceiver



File: sci-bus\_transceiver.sch

Sheet: EEPROM




File: eeprom.sch

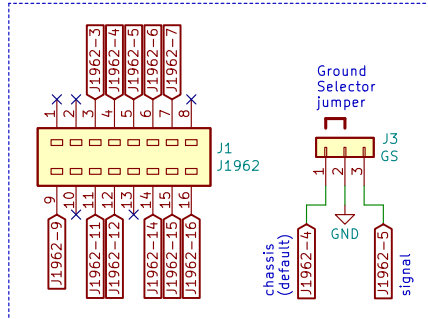
Sheet: Miscellaneous



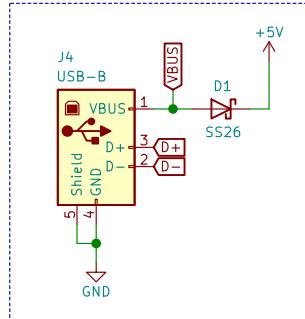
File: miscellaneous.sch

Chrysler CCD/SCI Scanner		
Hardware for interfacing Chrysler's legacy CCD/SCI-bus. Part number: BC-003150		
Boundary Condition		
Website: <a href="https://chryslerccdsci.wordpress.com">https://chryslerccdsci.wordpress.com</a>		
Sheet: /		
File: ChryslerCCDSCIScanner_V150.sch		
Author: Daniel Laszlo		
Size: A4	Date: 2021-08-19	Rev: 1.5.0-2
KiCad E.D.A. kicad (5.1.8)-1		Page: 1/9

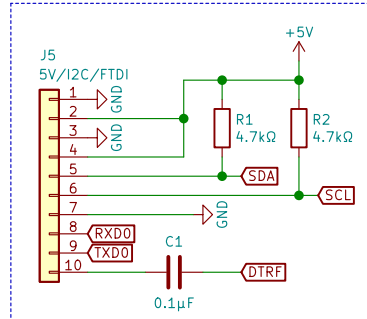
J1962 data link connector + GS jumper



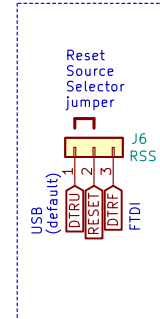
USB Type B female connector



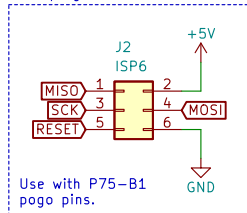
External connector



RSS jumper



ISP6 programmer



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Author: Daniel Laszlo

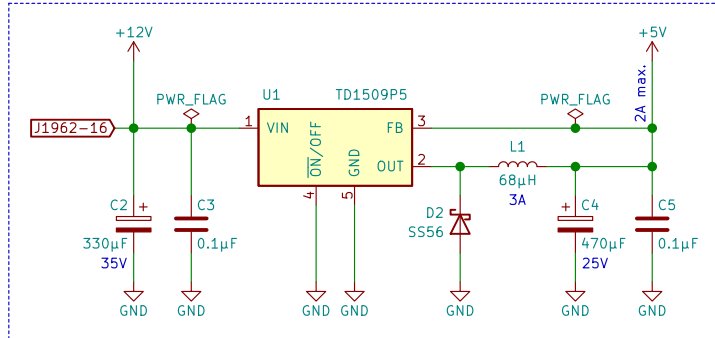
Size: A4 Date: 2021-08-19

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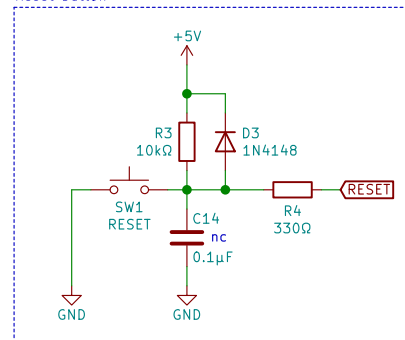
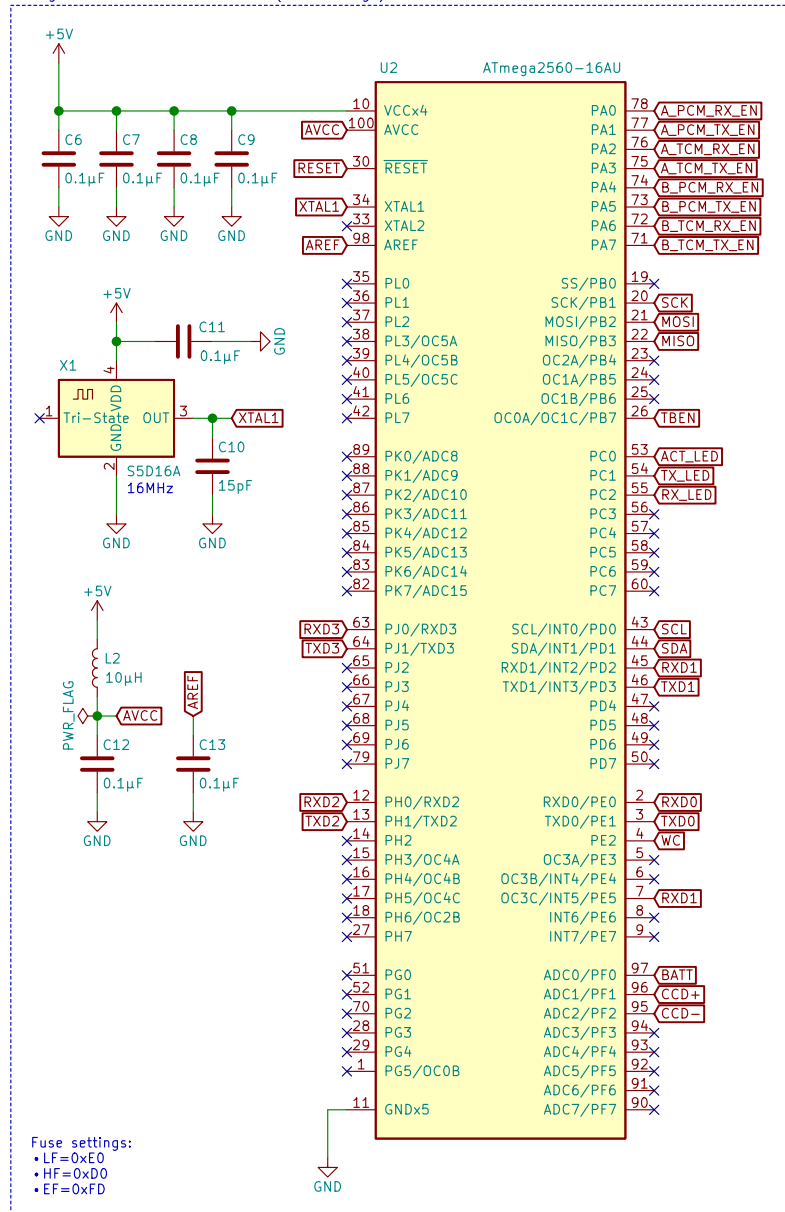
Rev: 1.5.0-2

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Switched-mode power supply



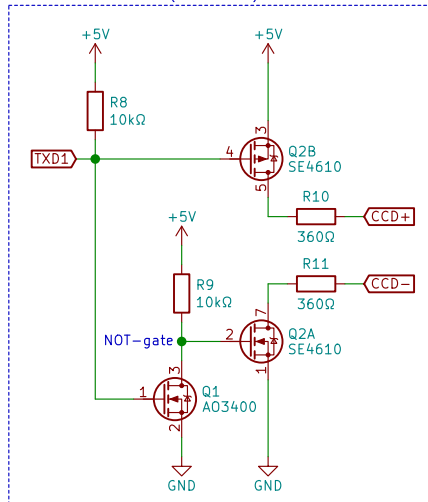
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Author: Daniel Laszlo		
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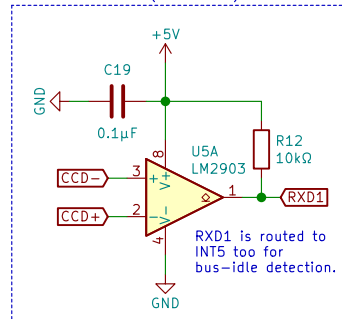
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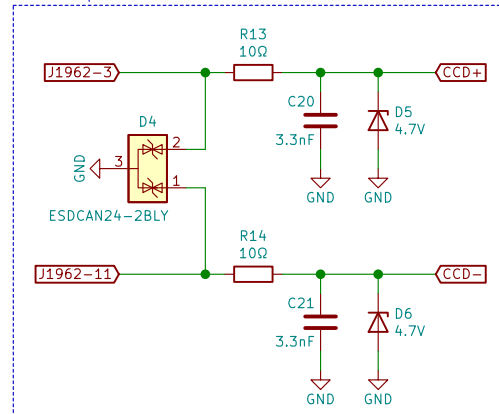
CCD-bus transmitter (SAE J1567)



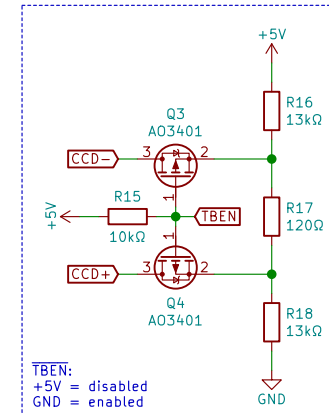
CCD-bus receiver (SAE J1567)



CCD-bus protection



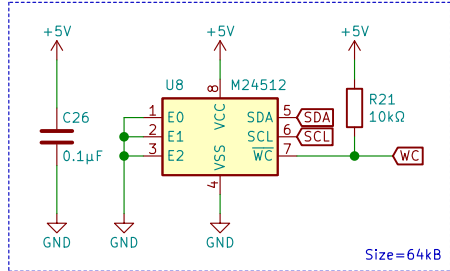
Selectable CCD-bus termination and bias



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Sheet: /CCD-bus transceiver/	
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Author: Daniel Laszlo	
Size: A4	Date: 2021-08-19
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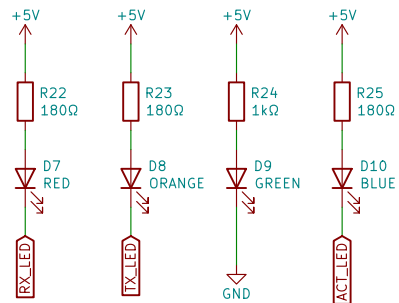
# External EEPROM



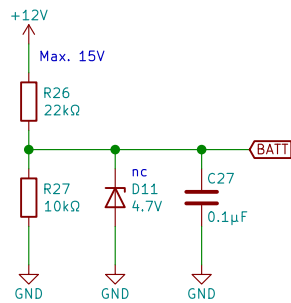
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# Status LEDs



# Battery voltage sensor



# Revision history

- 1.5.0-1 (2021-03-15):
- new schematic and PCB design in KiCad,
  - battery voltage sensor components changed (C27, D11, R27, R28) for better resolution,
  - 16 MHz crystal replaced with crystal oscillator (X1).
- 1.5.0-2 (2021-08-19)
- C14 removed due to auto-reset issue during programming,
  - U5 LM393 replaced with LM2903,
  - D11 Zener diode removed due to interference.

# Mounting holes



# Fiducials



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