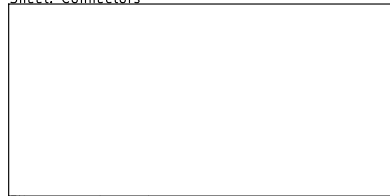


Chrysler CCD/SCI Scanner

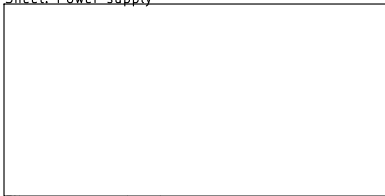
Hardware for interfacing Chrysler's legacy CCD/SCI-bus.

Sheet: Connectors



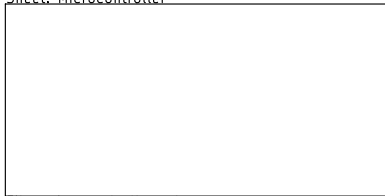
File: connectors.sch

Sheet: Power supply



File: power_supply.sch

Sheet: Microcontroller



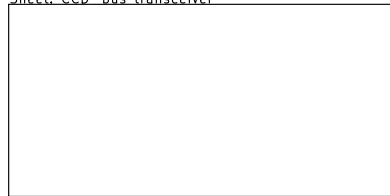
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Sheet: USB



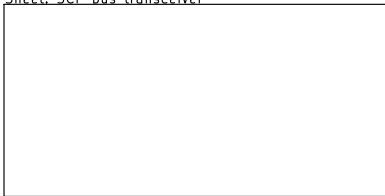
File: usb.sch

Sheet: CCD-bus transceiver



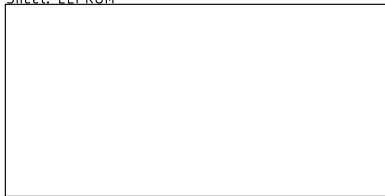
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Sheet: SCI-bus transceiver



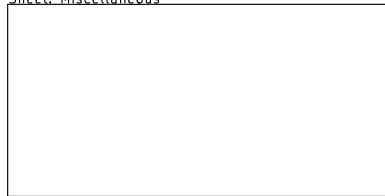
File: sci-bus_transceiver.sch

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: <https://chryslerccdsci.wordpress.com>

Sheet: /
File: ChryslerCCDSCIScanner_V150.sch

Author: Daniel Laszlo

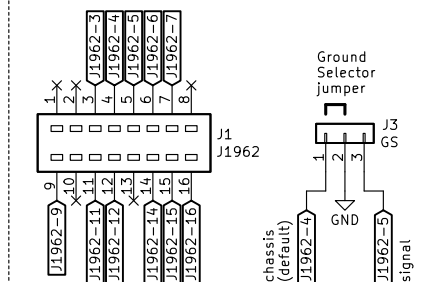
Size: A4 Date: 2021-08-19

Rev: 1.5.0-2

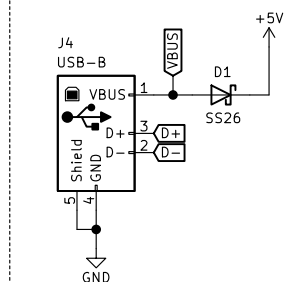
KiCad E.D.A. kicad (5.1.8)-1

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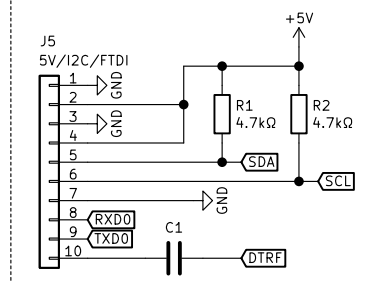
J1962 data link connector + GS jumper



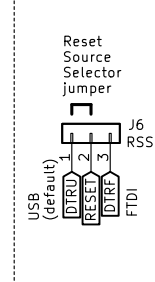
USB Type B female connector



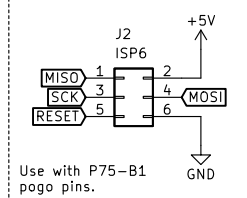
External connector



RSS jumper



ISP6 programmer



Chrysler CCD/SCI Scanner

Hardware for interfacing Chrysler's legacy CCD/SCI-bus.
Part number: BC-003150

Boundary Condition
Website: <https://chryslerccdsci.wordpress.com>

Sheet: /Connectors/
File: connectors.sch

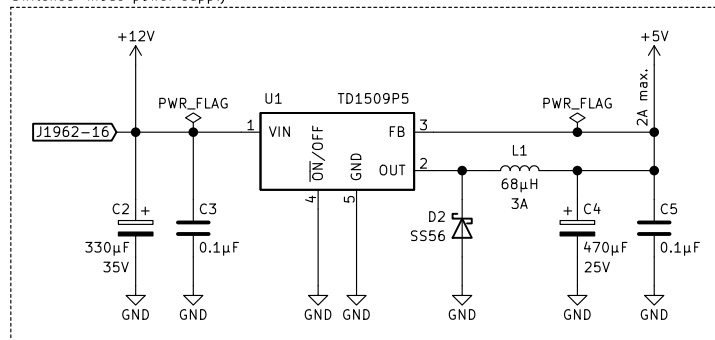
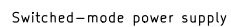
Author: Daniel Laszlo

Size: A4 Date: 2021-08-19

KiCad E.D.A. kicad (5.1.8)-1

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Chrysler CCD/SCI Scanner

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

Part number: BC-003150

Boundary Condition

Website: <https://chryslerccdsci.wordpress.com>

Sheet: /Power supply/

File: power_supply.sch

Author: Daniel Laszlo

Size: A4

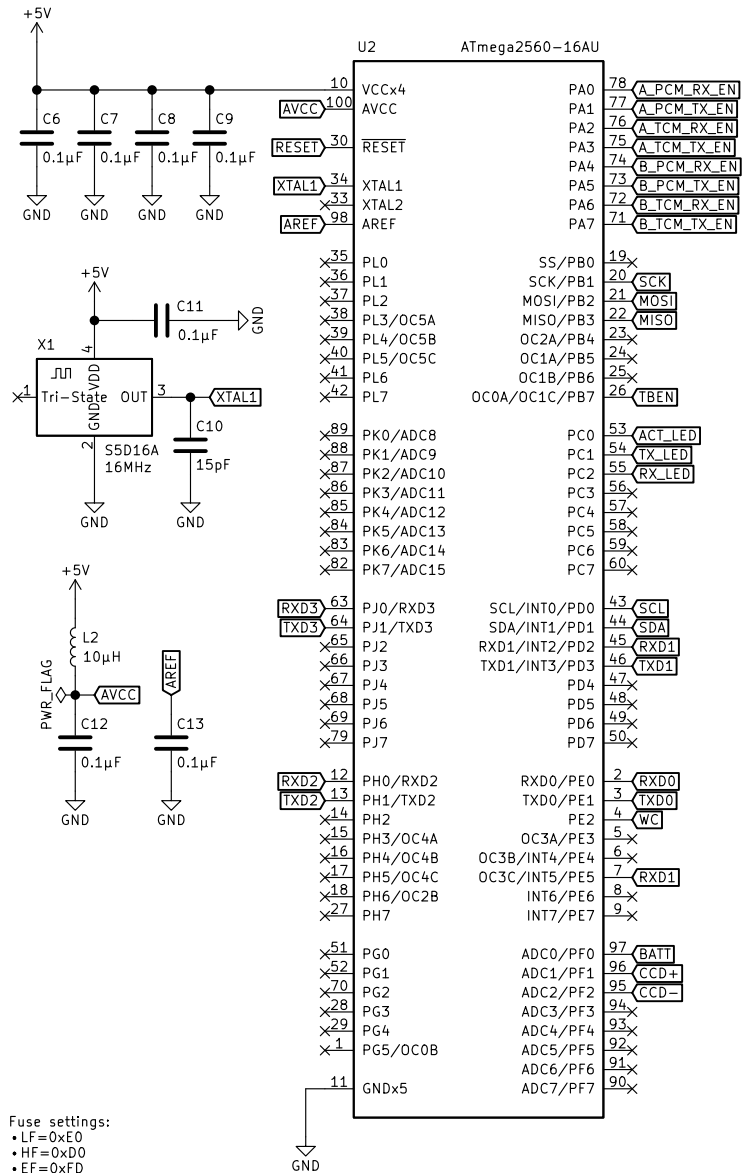
Date:	2021-08-19
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Rev: 1.5.0-2

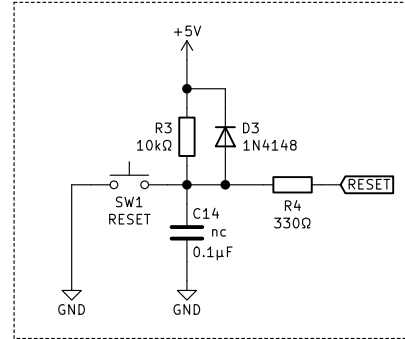
Size: A1	Date: 2021
KiCad E.D.A.	kicad (5.1.8)-1

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ATmega2560-16AU microcontroller (Arduino Mega)



Reset button



Chrysler CCD/SCI Scanner

Hardware for interfacing Chrysler's legacy CCD/SCI-bus.
Part number: BC-003150

Boundary Condition
Website: <https://chryslerccdsci.wordpress.com>

Sheet: /Microcontroller/
File: microcontroller.sch

Author: Daniel Laszlo

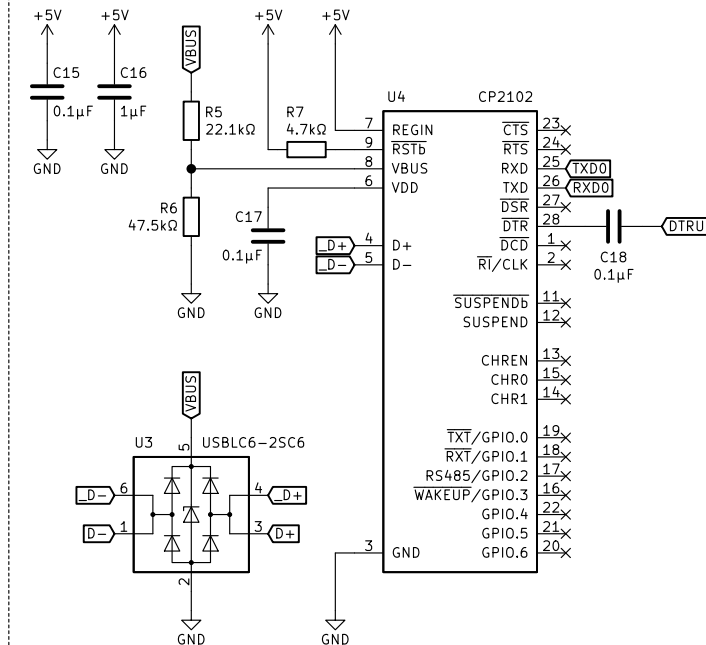
Size: A4 Date: 2021-08-19

Rev: 1.5.0-2

KiCad E.D.A. kicad (5.1.8)-1

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USB/UART bridge



Chrysler CCD/SCI Scanner

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

Part number: BC-003150

Boundary Condition

Website: <https://chryslerccdsci.wordpress.com>

Sheet: /USB/

File: usb.sch

Author: Daniel Laszlo

Size: A4

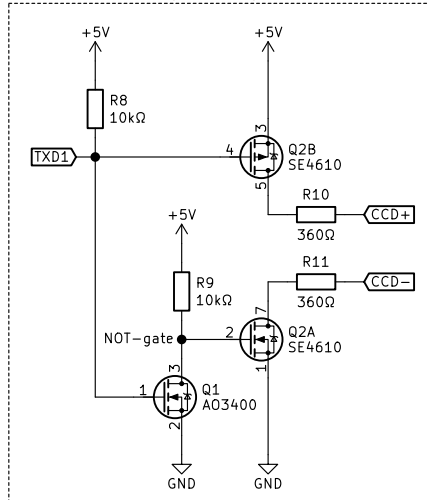
Date: 2021-08-19

Rev: 1.5.0-2

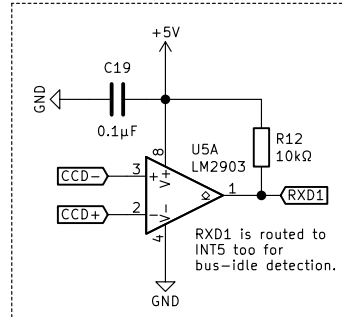
KiCad E.D.A. kicad (5.1.8)-1

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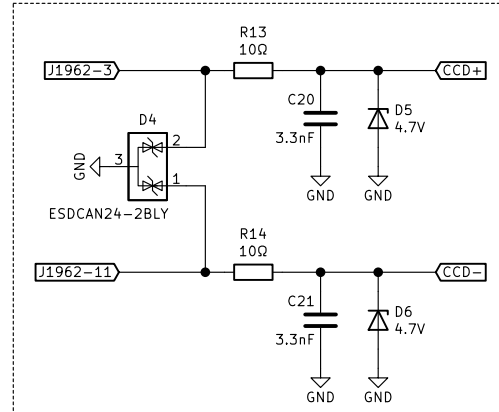
CCD-bus transmitter (SAE J1567)



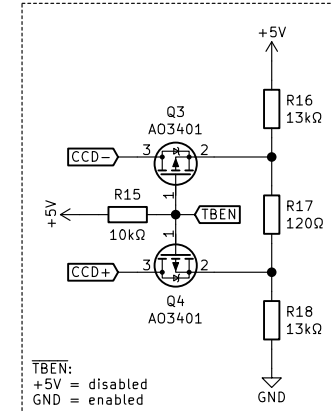
CCD-bus receiver (SAE J1567)



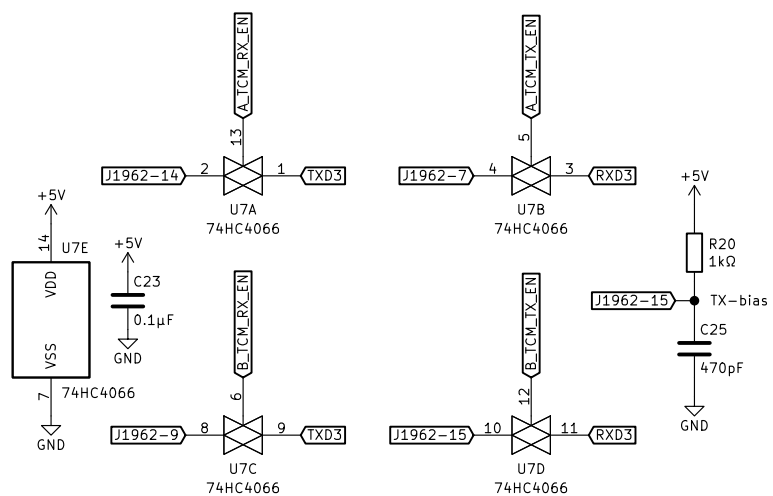
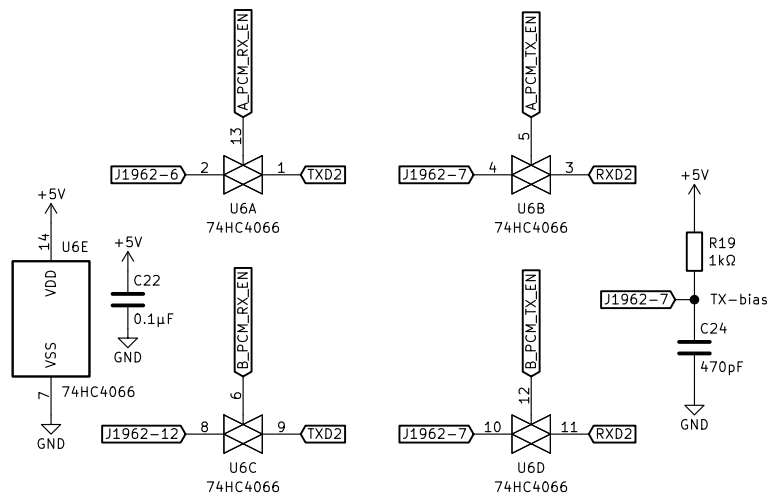
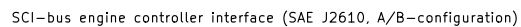
CCD-bus protection



Selectable CCD-bus termination and bias



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

Hardware for interfacing Chrysler's legacy CCD/SCI-bus.
Part number: BC-003150

Boundary Condition

Website: <https://chryslerccdsci.wordpress.com>

Sheet: /SCI-bus transceiver/

File: sci-bus_transceiver.sch

Author: Daniel Laszlo

Size: A4

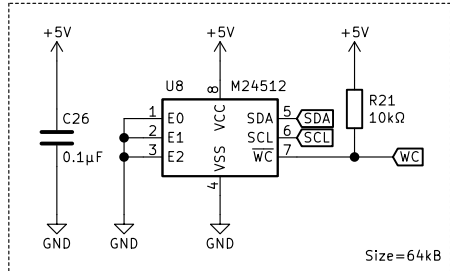
Date: 2021-08-19

Rev: 1.5.0-2

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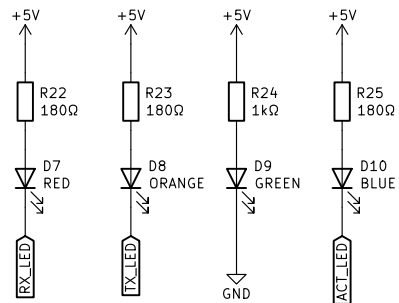
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External EEPROM

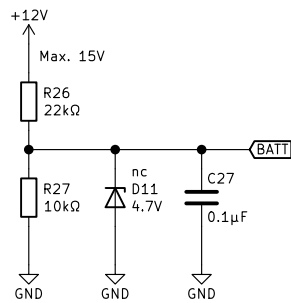


Chrysler CCD/SCI Scanner	
Hardware for interfacing Chrysler's legacy CCD/SCI-bus.	
Part number: BC-003150	
Boundary Condition	
Website: https://chryslerccdsci.wordpress.com	
Sheet: /EEPROM/	
File: eeprom.sch	
Author: Daniel Laszlo	
Size: A4	Date: 2021-08-19
KiCad E.D.A. kicad (5.1.8)-1	Rev: 1.5.0-2
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Status LEDs



Battery voltage sensor



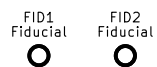
Revision history

- 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



Chrysler CCD/SCI Scanner

Hardware for interfacing Chrysler's legacy CCD/SCI-bus.
Part number: BC-003150

Boundary Condition
Website: <https://chryslerccdsci.wordpress.com>

Sheet: /Miscellaneous/
File: miscellaneous.sch

Author: Daniel Laszlo

Size: A4 Date: 2021-08-19

KiCad E.D.A. kicad (5.1.8)-1

Rev: 1.5.0-2

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