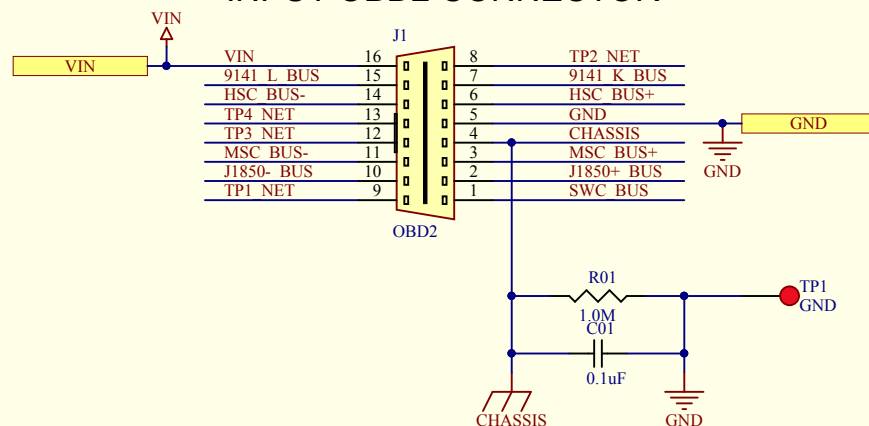
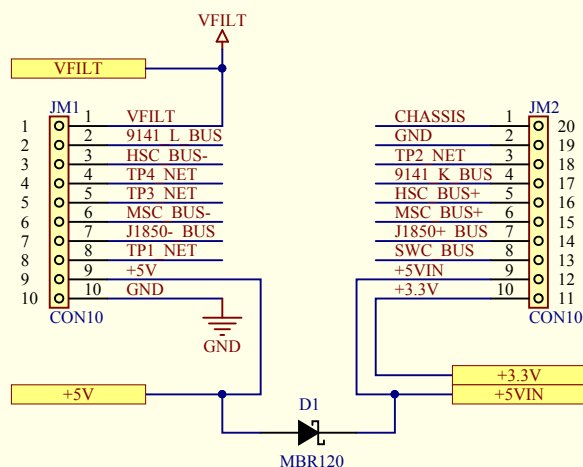


INPUT OBD2 CONNECTOR



POWER BOARD BRIDGE CONNECTORS



Macchina hardware is released under Creative Commons Share-alike 4.0 International.


Note: This is a human-readable summary of (and not a substitute for) the license.

You are free to:

Share — copy and redistribute the material in any medium or format. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Under the following terms:

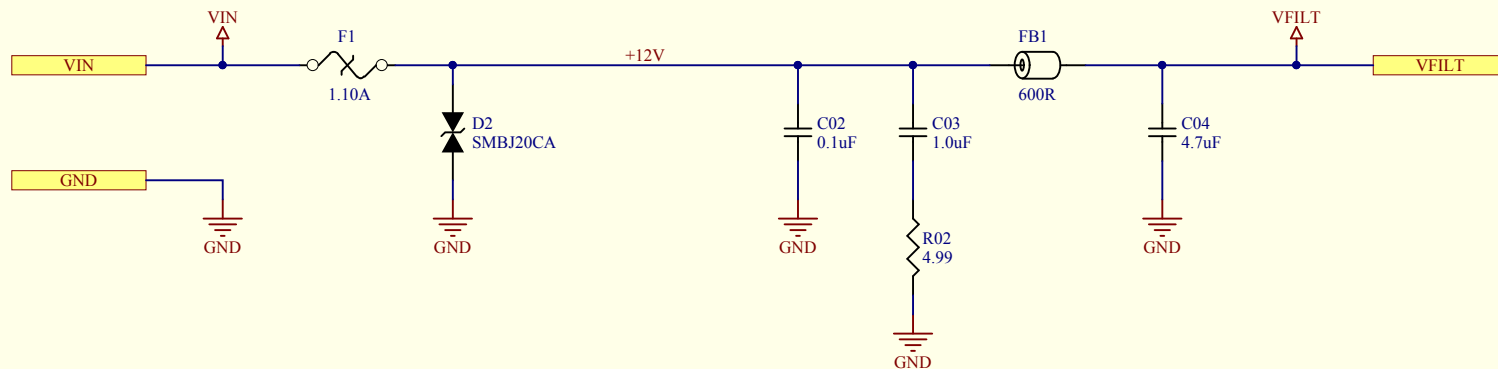
Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. Notices:

You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material.

 MACCHINA		Macchina LLC P.O. Box 18701 Minneapolis, MN 55418 612-787-2658	
Project - Macchina A0 - Interface Board Title: Interface Circuit - OBD Input Connectors			
Size: LETTER	Document Number: SCH-01003	Revision: R1	PCB #: PCB-01003 R1
Date: 4/8/2020		Sheet 1 of 7	
File: SCH-01003 R1 P2.SCHDOC		Drawn By: RGR	Eng: JS

OVER ($\pm V$ and $\pm A$) PROTECTION

INPUT EMI FILTER

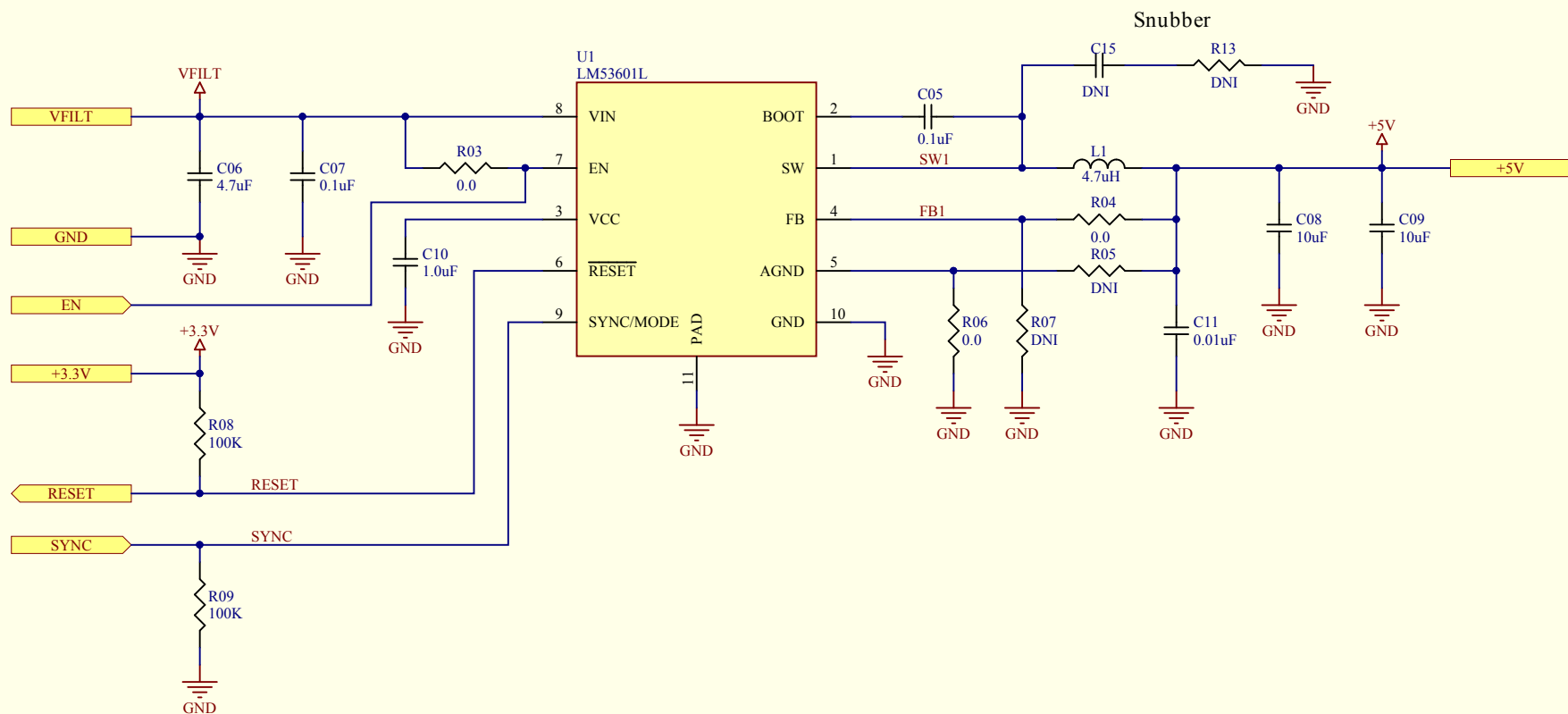


Macchina LLC
P.O. Box 18701
Minneapolis, MN 55418
612-787-2658

Project - Macchina A0 - Interface Board
Title: Protection Circuit - Fuse, TVS, and EMI Filter

Size: LETTER	Document Number: SCH-01003	Revision: R1	PCB #: PCB-01003 R1
Date: 4/8/2020		Sheet 2 of 7	
File: SCH-01003 R1 P3.SCHDOC		Drawn By: RGR	Eng: JS

AUTOMOTIVE 5 VOLT SWITCHING REGULATOR

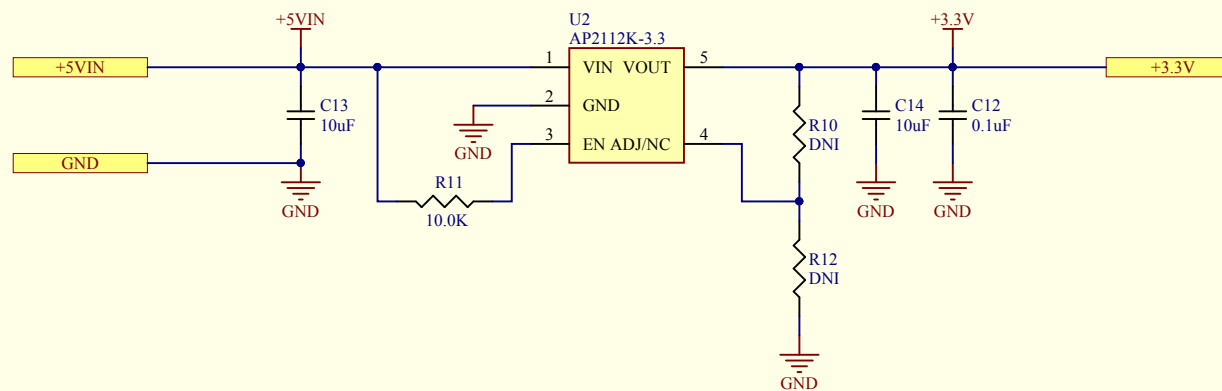



Macchina LLC
P.O. Box 18701
Minneapolis, MN 55418
612-787-2658

Project - Macchina A0 - Interface Board
Title: Main Power Supply Circuit - 5V, 1A Switching Regulator

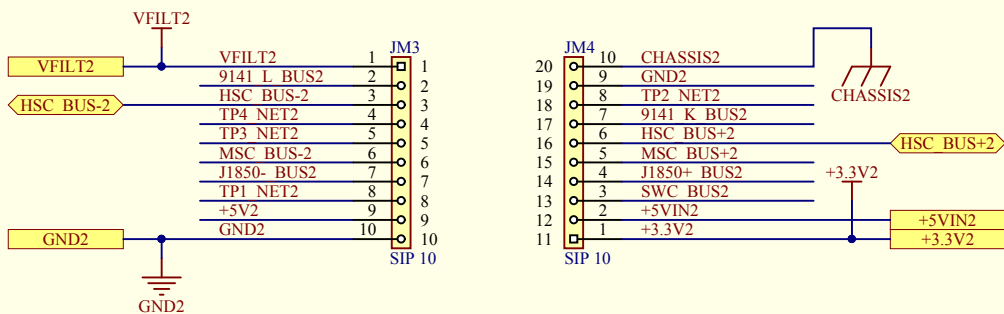
Size: LETTER	Document Number: SCH-01003	Revision: R1	PCB #: PCB-01003 R1
Date: 4/8/2020	Sheet 3 of 7		
File: SCH-01003 R1 P4.SCHDOC		Drawn By: RGR	Eng: JS

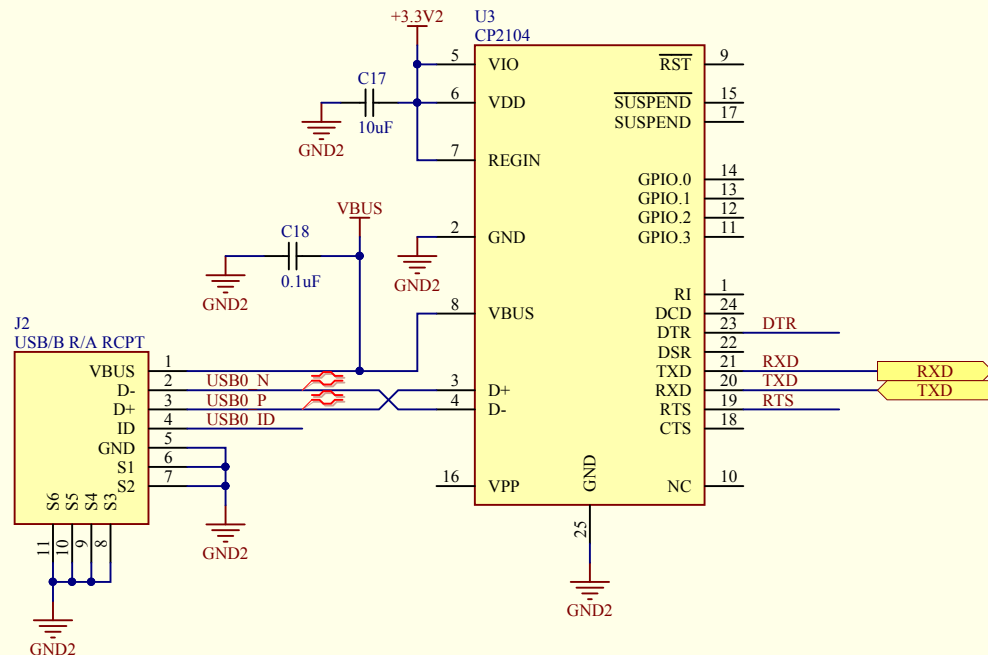
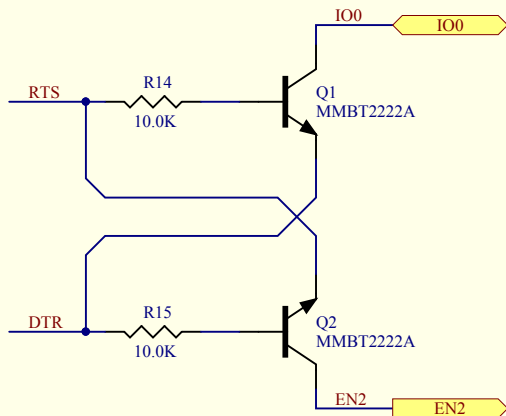
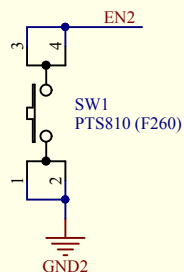
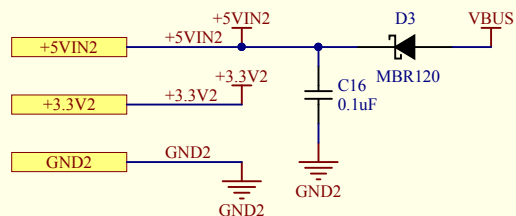
+3.3V 600mA LINEAR REGULATOR



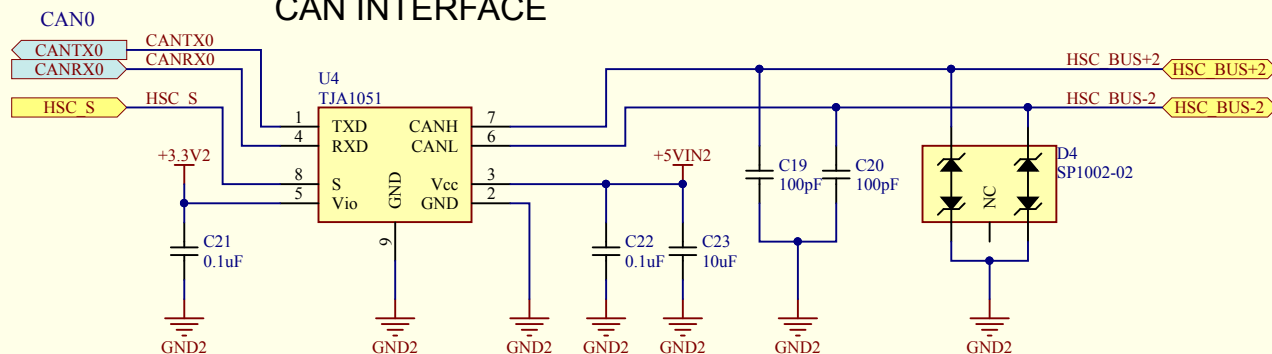
		Macchina LLC P.O. Box 18701 Minneapolis, MN 55418 612-787-2658	
		Project - Macchina A0 - Interface Board Title: Linear power Supply Circuit - 3.3V 600mA Linear Regulator	
Size: LETTER	Document Number: SCH-01003	Revision: R1	PCB #: PCB-01003 R1
Date: 4/8/2020		Sheet 4 of 7	
File: SCH-01003 R1 P5.SCHDOC		Drawn By: RGR	Eng: JS

MAIN BOARD BRIDGE CONNECTORS





CAN INTERFACE



Macchina LLC
P.O. Box 18701
Minneapolis, MN 55418
612-787-2658

Project - Macchina A0 - RF Transmitter - ESP32 Board
Title: USB and Digital Interface Circuit

Size: LETTER	Document Number: SCH-01004	Revision: R2	PCB #: PCB-01004 R2
Date: 4/8/2020	Sheet 6 of 7		
File: SCH-01004 R2 P3.SCHDOC			Drawn By: RGR Eng: JS

ESP-WROOM-32 MODULE

