Digital Side Car
Revision 8

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These design packages are made available primarily to serve as an educational tool. Mentors are strongly encouraged to use them to help their students learn more about electronics.
to NI 9403 Digital IO Module

For use with NI 9403
1487
19-037-213L571

General Purpose Digital IO

Secondary SPI Power Spigot

I2C Driver

The pull-downs for the
I2C SCL A and SDA A outputs
are included in the big resistor
packs.

I2C Port

Set Default States for all DIO lines
Power Input with Reverse Voltage Protection

6V/3A Buck Supply

5V/3A Buck Supply

Change List:
- Removed current source for cost.
- Removed C6.
- Replaced Q1
- Added Q1 Gate Resistor

Input Voltage not to exceed 20 V
Protect with 10 Amp Breaker

Project: Digital Side Car, Rev 8
Size: Letter
Letter: Power Input, Supplies & Indicators
Date: 5/31/2009
File: Power Side Doc
Drawn By: EJW
pull-downs on outputs (required given tri-state period of the '595s)