

This is the Revision A version of the ScanPanel Module. The status of this project is work in progress.

ScanPanel Module (Revision B)

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1. Introduction

The ScanPanel module is meant to be attached to a standard servo arm to provide a convenient location to attach other modules for scanning purposes. Currently, this module provides the specialized connections between Sense3 and the ScanBase.

Servo arms typically have 3 or 4 holes in a row on each arm. These holes are typically spaced 3 millimeters apart. The initial distance from the center of the servo arm is not standardized. In order to accomodate as many different servo arms as possible, the ScanPanel modules has three sets of holes as shown in the table below:

Angles (degrees)	Hole distances
30, 210	6, 9, 12, 15
90, 270	7, 10, 13, 16
150, 330	8, 11, 14, 17

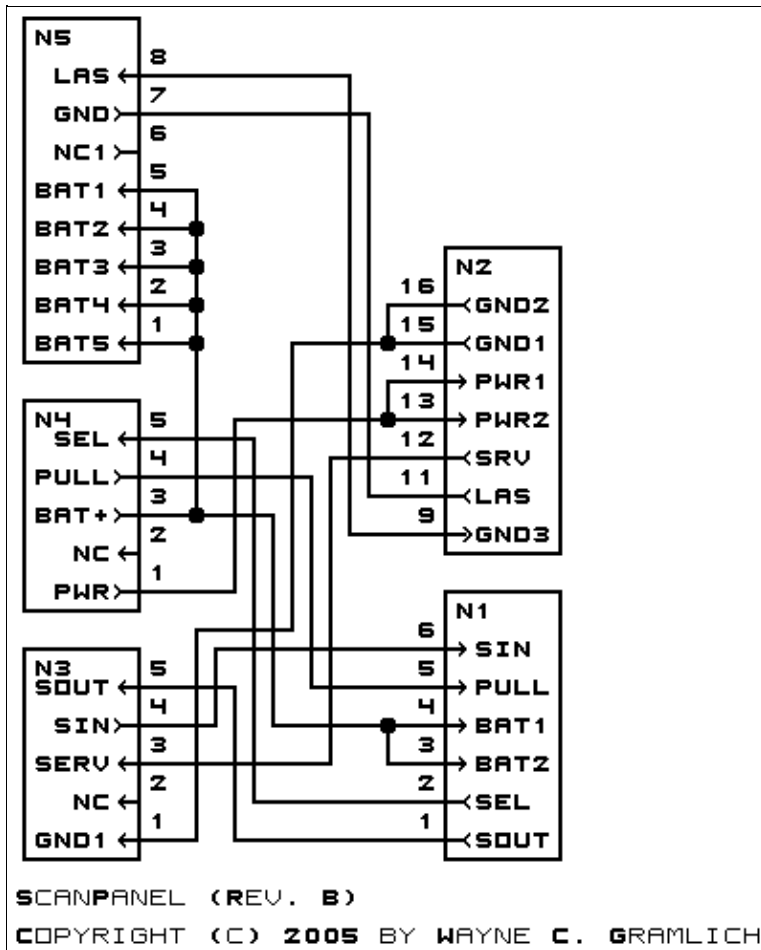
Using a cross style horn, the holes should line up one of the hole sets above.

2. Hardware

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2.1 Schematic

The schematic is shown below:



The [parts list](#) is kept in a separate file.

2.2 Printed Circuit Board

The printed circuit files are listed below:

[scanpanel_back.png](#)

The solder side layer.

[scanpanel_front.png](#)

The component side layer.

[scanpanel_artwork.png](#)

The artwork layer.

[scanpanel.gbl](#)

The RS-274X "Gerber" back (solder side) layer.

[scanpanel.gtl](#)

The RS-274X "Gerber" top (component side) layer.

[scanpanel.gal](#)

The RS-274X "Gerber" artwork layer.

[scanpanel.drl](#)

The "Excellon" NC drill file.

[scanpanel.tol](#)

The "Excellon" tool rack file.

3. Issues

Any fabrication issues will be listed here.

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