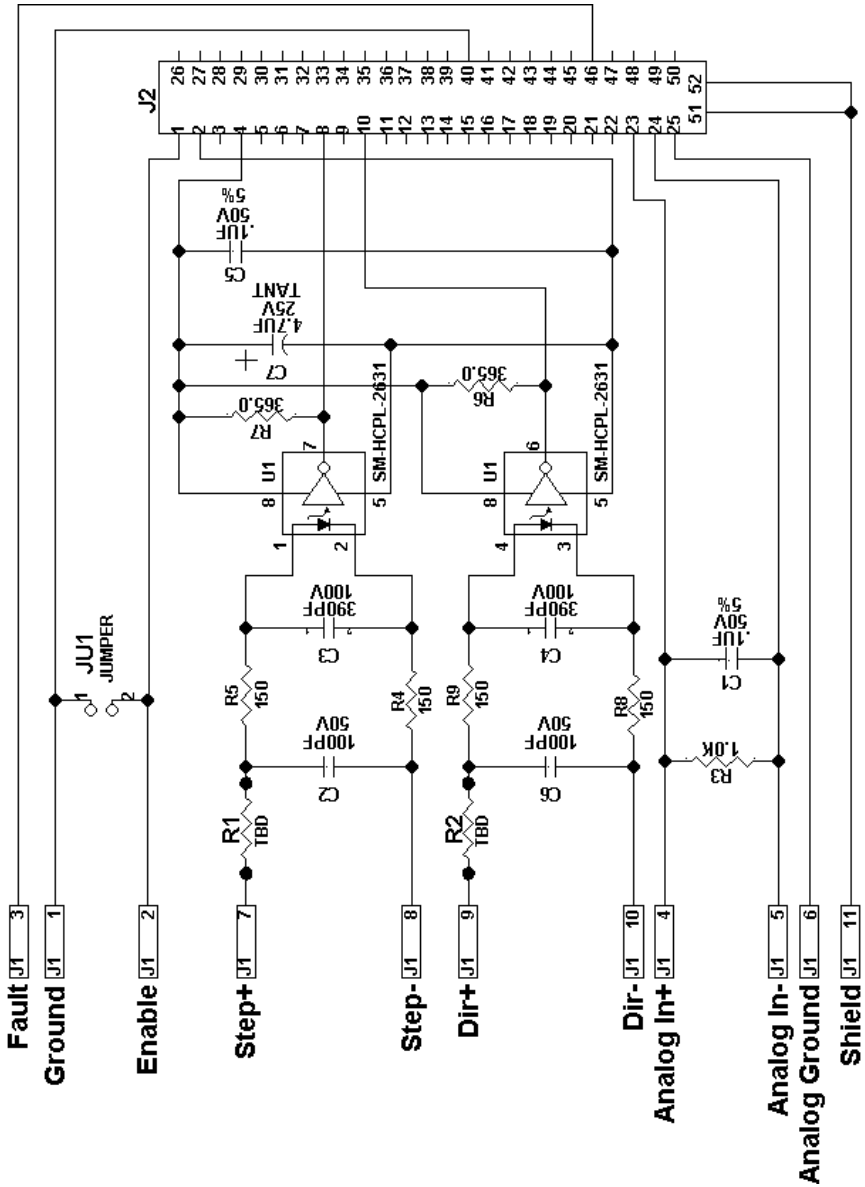
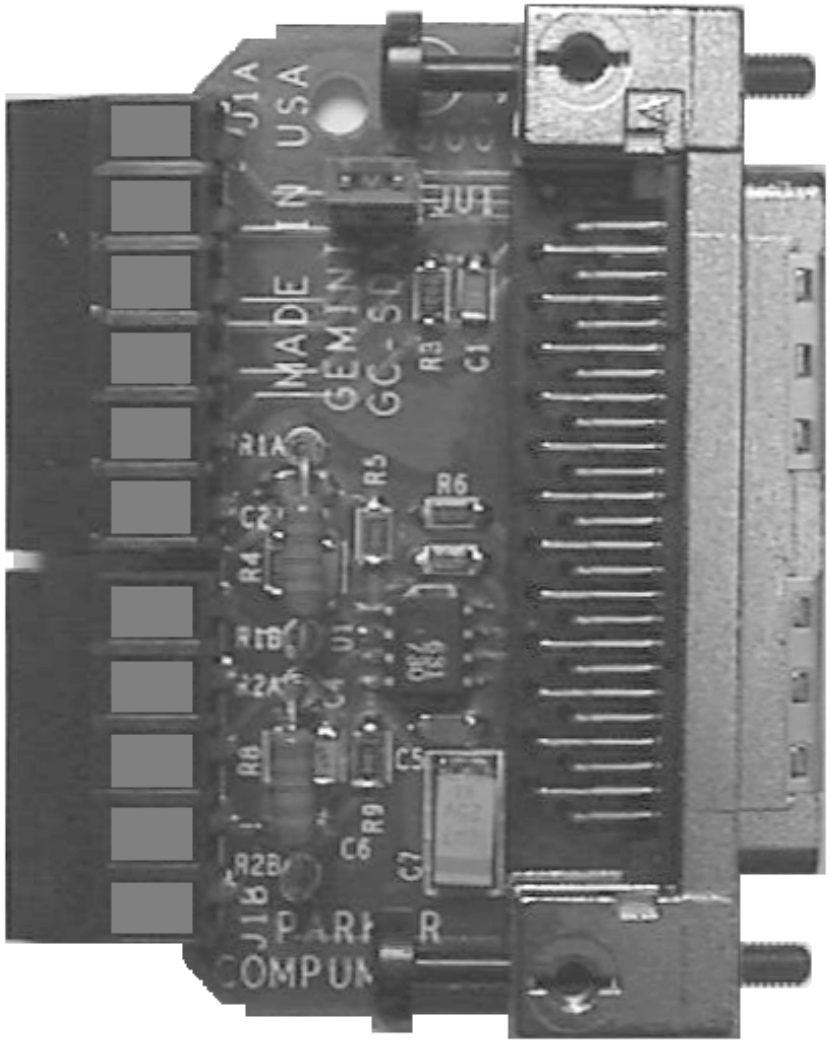
GC-SDA INSTALLATION GUIDE



GC-SDA SCHEMATIC



Compumotor Division
Parker Hannifin Corporation
p/n 88-018930-01A

DESCRIPTION:
The GC-SDA is a dedicated breakout board for the Compumotor Gemini series of servo and step motor drives. The GC-SDA supports the most basic set of commonly used signals and allows the drive to fit within an 8" deep enclosure.

Additional flexibility is achieved by allowing the customer to install the appropriate current limiting resistors as required for the STEP and DIRECTION signals, based on the signal voltage.

TERMINAL FUNCTIONS:

DGND:	Ground reference for the ENABLE input and the FAULT output.
ENABLE:	Drive enable input (connect to DGND to enable the drive).
FAULT:	Drive fault output.
ANALOG+:	Positive input for the ANALOG command.
ANALOG-:	Negative input for the ANALOG command.
AGND:	Ground reference for a single ended ANALOG + command.
STEP +:	Positive input for the STEP signal.
STEP -:	Negative or reference input for the STEP signal.
DIR +:	Positive input for the DIRECTION signal.
DIR -:	Negative or reference input for the DIRECTION signal.
SHIELD:	Connection for the signal cable metal shield.

JU1: ENABLE jumper. JU1 installed connects the ENABLE input to DGND. JU1 **must not** be installed to allow use of the ENABLE input terminal.

Note: Maximum reverse voltage for the STEP and DIRECTION inputs is 5VDC.

GC-SDA PINOUT DIAGRAM

Current limiting resistor (R1 and R2) selection:

R = (Vsignal - 5V) / 11ma

Approximate resistor selection

Vsignal	Resistor
5V:	0 ohm
12V:	680 ohm
24V:	1800 ohm

Note: resistors MUST be installed for the STEP (R1) and DIRECTION (R2) functions to work.