# WAITER'S LANDING GEAR CONTROLLER

# **LONGEZ - BERKUT**

#### **REVISION HISTORY**

The Drawing, Firmware, and Manual version numbers should all match.

- 2.2.0 28 FEB 2010 Add C121 and C122 to for Nose Split and Hydraulic Operation
- 2.1.4 06 OCT 2008 Fix Infinity Strut switch on X106
- 2.1.3 12 JUL 2008 Add Firmware Switch to allow NC/NO switches & Strut/Spd Brk
- 2.1.2 31 MAY 2007 Correct for NC vs NO on the Hydraulic switch.
- 2.1.1 29 MAY 2007 Stuck MUTE button alarms 1/2 sec ON 1/2 sec OFF
- 2.1.0 26 MAY 2007 Change logic of Canopy Open and Airspeed Sensor
- 2.0.1 23 MAY 2007 INITIAL RELEASE
- 1.1.2 BETA NOT RELEASED







NOTE 1 -Depending on how the Controller is programmed, these outputs could serve either of these two functions.

NOTE 2 - If the Nose is set up to use Hydraulics, Y2 is then used for the Speed Brake Retract, and Y3 is not used.

All Diodes are 1N4004

**Controller OUTPUTS** 

28 FEB 2010









All Diodes are 1N4004







### EMERGENCY ELECTRICAL EXTEND (NON-INFINITY GEAR)







# OPTIONAL GEAR RETRACT INTERLOCKs













![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

#### Use this relay for R3 thru R8

![](_page_25_Figure_1.jpeg)

CUBE RELAY VIEWED FROM BOTTOM

10 JULY 2005

The relays and a pigtail (with suppression diode) are available from Jameco. The relays are \$2.49 each (part# 148582CH) and the pigtail is \$2.35 (Part# 170624CH)

## Use this relay for R1 and R2

![](_page_26_Figure_1.jpeg)

CUBE RELAY VIEWED FROM BOTTOM

22 MAY 2007

R51-1D70-12F (70 amp SPST relay) R95-160A Socket These parts available from Mouser Electronics (800) 346-6873

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

This cable is used to Program the DI05 and DI06 (port 1) AND also to read the serial port data stream (port 2)

#### PLC SERIAL DATA CABLE

12 JULY 2008

![](_page_29_Figure_0.jpeg)

PLC > SETUP > SETUP SEC COM PORT.

Set the PROTOCOL to NON-SEQUENCE, 9600 baud