

Alpha Systems AOA Dual Non-Pressurized System Diagram

Display
Extension
Cables-
Qty 2

Primary Display: Eagle
Secondary Display: Eagle

Switch
Panel

Dual Display
I/F Module

I/F Module

25 ft

25 ft

AoA Sense
Probe

AOA Probe Mounting Plate

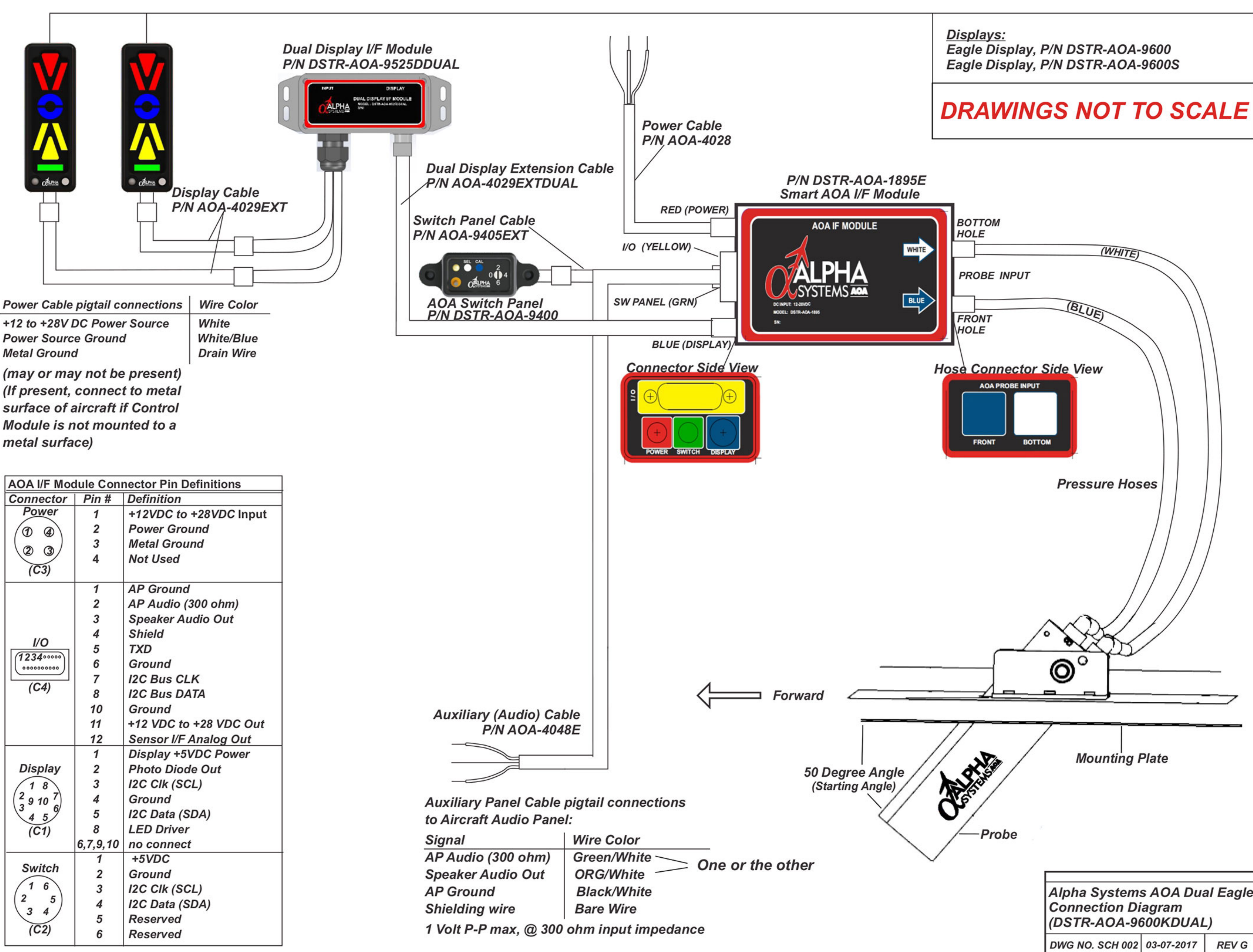


(Cut to Fit Existing Inspection Cover)

- Red - I/F Module Power Cable
- Green - Switch Panel Extension Cable
- Yellow - Enhanced AUX Cable
- Blue - Dual Display I/F Module Extension Cable

Displays:
 Eagle Display, P/N DSTR-AOA-9600
 Eagle Display, P/N DSTR-AOA-9600S

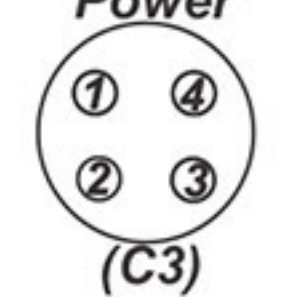
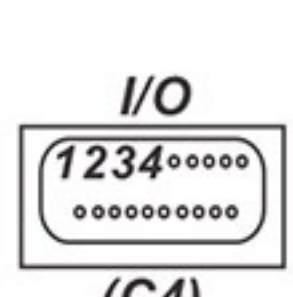
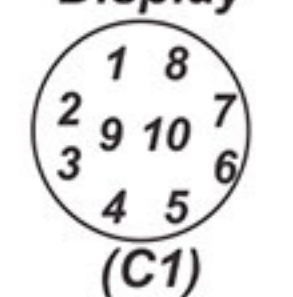
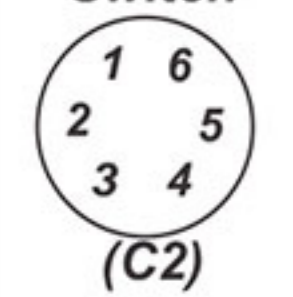
DRAWINGS NOT TO SCALE

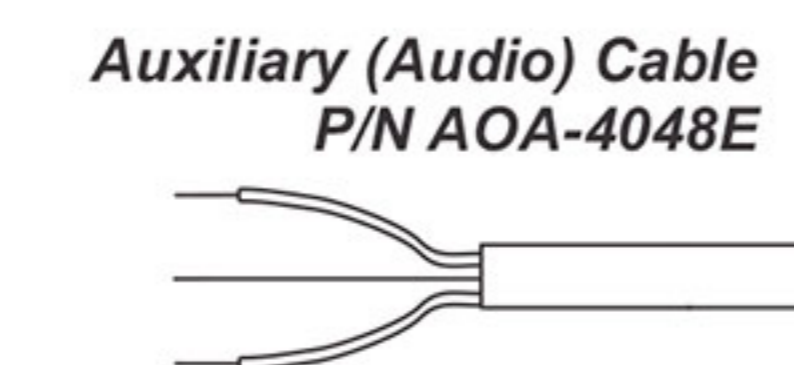


Power Cable pigtail connections

Wire Color	Connection
White	+12 to +28V DC Power Source
White/Blue	Power Source Ground
Drain Wire	Metal Ground

(may or may not be present)
 (If present, connect to metal surface of aircraft if Control Module is not mounted to a metal surface)

AOA I/F Module Connector Pin Definitions		
Connector	Pin #	Definition
Power  (C3)	1	+12VDC to +28VDC Input
	2	Power Ground
	3	Metal Ground
	4	Not Used
I/O  (C4)	1	AP Ground
	2	AP Audio (300 ohm)
	3	Speaker Audio Out
	4	Shield
	5	TXD
	6	Ground
	7	I2C Bus CLK
	8	I2C Bus DATA
	10	Ground
	11	+12 VDC to +28 VDC Out
	12	Sensor I/F Analog Out
	Display  (C1)	1
2		Photo Diode Out
3		I2C Clk (SCL)
4		Ground
5		I2C Data (SDA)
8		LED Driver
6,7,9,10		no connect
Switch  (C2)		1
	2	Ground
	3	I2C Clk (SCL)
	4	I2C Data (SDA)
	5	Reserved
	6	Reserved



Auxiliary Panel Cable pigtail connections to Aircraft Audio Panel:

Signal	Wire Color
AP Audio (300 ohm)	Green/White
Speaker Audio Out	ORG/White
AP Ground	Black/White
Shielding wire	Bare Wire

1 Volt P-P max, @ 300 ohm input impedance

One or the other

