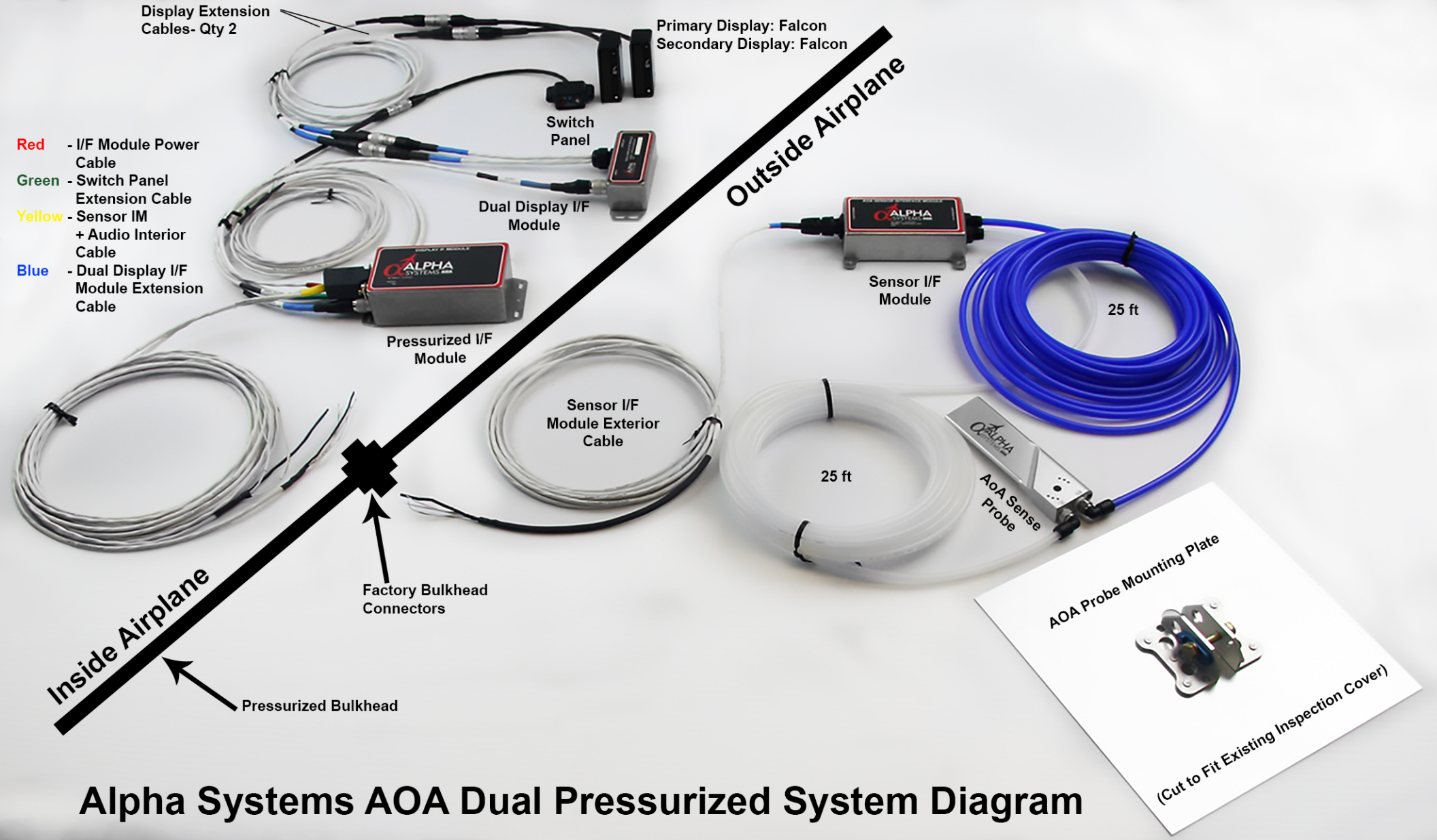
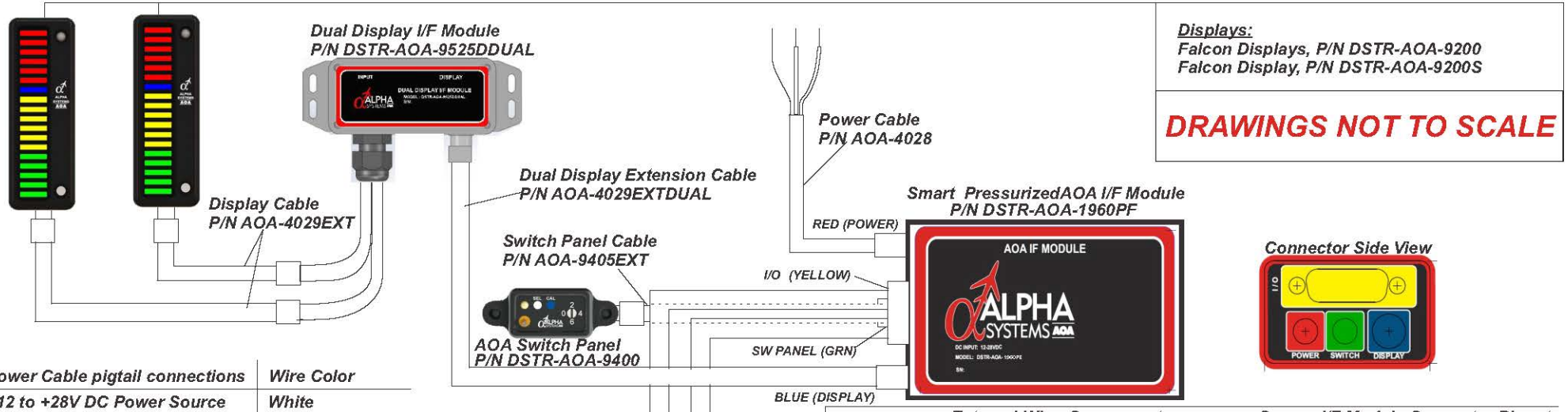


Alpha Systems AOA Dual Pressurized System Diagram

Drawing Location: P:\Operations\DepotStar\Alpha Systems AOA\AOA WIRING DIAGRAMS 2014\AOA SYSTEM CONNECTION DIAGRAMS PDFS\Falcon System Connection



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

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

Sensor + Audio I/F Cable
P/N AOA-4056

External Wing Components

Sensor I/F Module Connector Pinout

1	GND
2	DC POWER
3	SENSOR ANALOG OUTPUT
4	SHIELD
5	NU
6	NU

Connector Side View

Hose Connector Side View

Factory Bulkhead Connector (PLANE)

AOA Sensor I/F Module
P/N DSTR-AOA-1975

AOA SENSOR INTERFACE MODULE

BOTTOM HOLE
PROBE INPUT
FRONT HOLE
(WHITE)
(BLUE)

Sensor I/F Module Exterior Cable P/N AOA-4055

Pressure Hoses

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 (mono)
	3	Reserved
	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	Display +5VDC Power
	2,6,7,8	Reserved
	3	I2C Clk (SCL)
	4	Ground
	5	I2C Data (SDA)
	9	no connect
	10	no connect
Switch (C2)	1	+5VDC
	2	Ground
	3	I2C Clk (SCL)
	4	I2C Data (SDA)
	5	Reserved
	6	Reserved

Cable pigtail connections to Aircraft Audio Panel:

Signal	Wire Color
AP Audio (mono)	White/Green
AP Ground	White/Black
Shielding wire	Bare Wire

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

Cable Pigtail Connections to Bulkhead Connector	Wire Color
Sensor I/F Ground	White/Blk
Sensor I/F Power	White/Red
Sensor Analog Output	White
Shielding wire	Bare Wire

Cable Pigtail Connections to Bulkhead Connector	Wire Color
Sensor I/F Ground	White/Blk
Sensor I/F Power	White/Red
Sensor Analog Output	White
Shielding wire	Bare Wire

Forward

50 Degree Angle (Starting Angle)

Mounting Plate

Probe

Note:
AOA (Display) I/F Module ~ .650 lbs.
Sensor I/F Module ~ .420 lbs.

Alpha Systems AOA Pressurized Dual Falcon Connection Diagram (DSTR-AOA-9200PK)

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