Primary Display: Falcon
Secondary Display: Falcon

Display Extension Cables- Qty 2

Switch Panel with Bezel

Dual Display I/F Module

Above Dash HUD

HUD

Dome

Base Plate

Above Dash HUD

HUD

Dome

Base Plate

HUD Covers

25 ft

Outside Airplane

Pressurized I/F Module

Red - I/F Module Power Cable
Green - Switch Panel Extension Cable
Yellow - Sensor IM + Audio Interior Cable
Blue - Dual Display I/F Module Extension Cable

Sensor I/F Module

Sensor I/F Module Exterior Cable

Factory Bulkhead Connectors

Inside Airplane

Pressurized Bulkhead

25 ft

AoA Sense Probe

AOA Probe Mounting Plate
(Cut to Fit Existing Inspection Cover)

REMOVE BEFORE FLIGHT

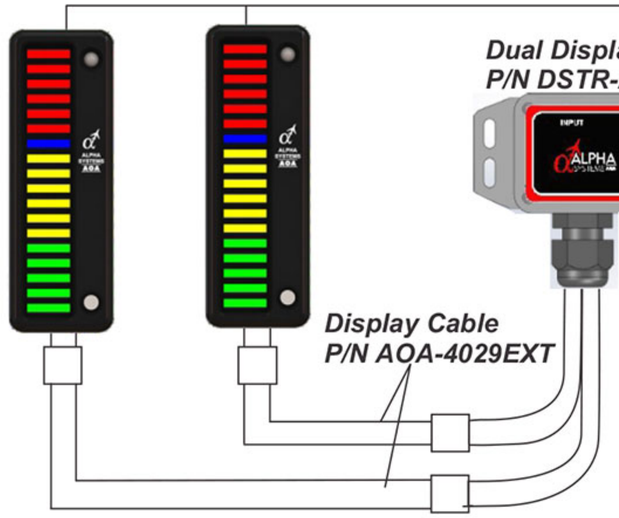
Probe Cover

Alpha Systems AOA Falcon Dual Pressurized Above Dash HUD System Diagram DSTR-AOA-9200DPK-(ADH)

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

Displays:
Falcon Displays, P/N DSTR-AOA-9200
Falcon Display, P/N DSTR-AOA-9200S

DRAWINGS NOT TO SCALE



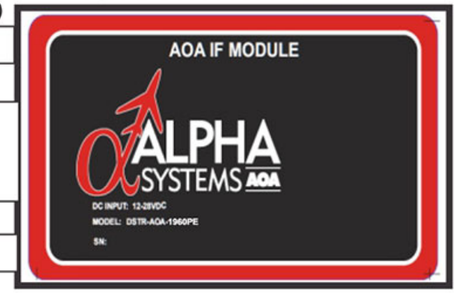
Dual Display I/F Module
P/N DSTR-AOA-9525DDUAL

Display Cable
P/N AOA-4029EXT

Dual Display Extension Cable
P/N AOA-4029EXTDUAL

Power Cable
P/N AOA-4028

Smart PressurizedAOA I/F Module
P/N DSTR-AOA-1960PF



RED (POWER)

I/O (YELLOW)

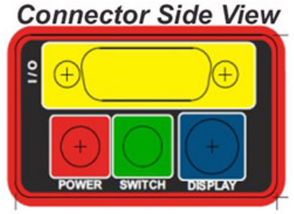
SW PANEL (GRN)

BLUE (DISPLAY)

Switch Panel Cable
P/N AOA-9405EXT

AOA Switch Panel
P/N DSTR-AOA-9400

Connector Side View

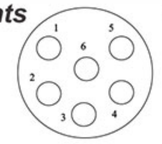


Power Cable pigtail connections	Wire Color
+12 to +28V DC Power Source	White
Power Source Ground	White/Blue
Metal Ground	Drain Wire

(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

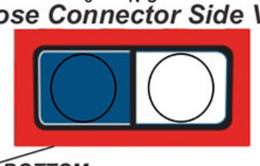


Sensor I/F Module Connector Pinout

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

BOTTOM HOLE

PROBE INPUT

FRONT HOLE

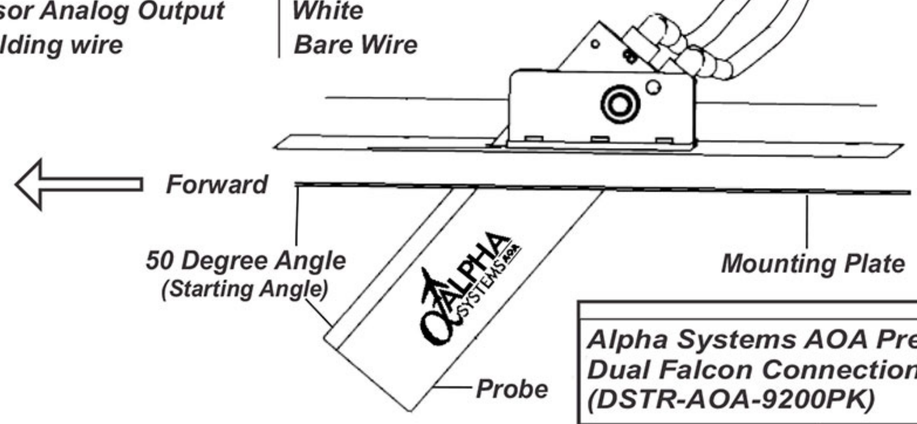
(WHITE)

(BLUE)

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

Pressure Hoses

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



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

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)

DWG NO. SCH 010	03-08-2017	REV E