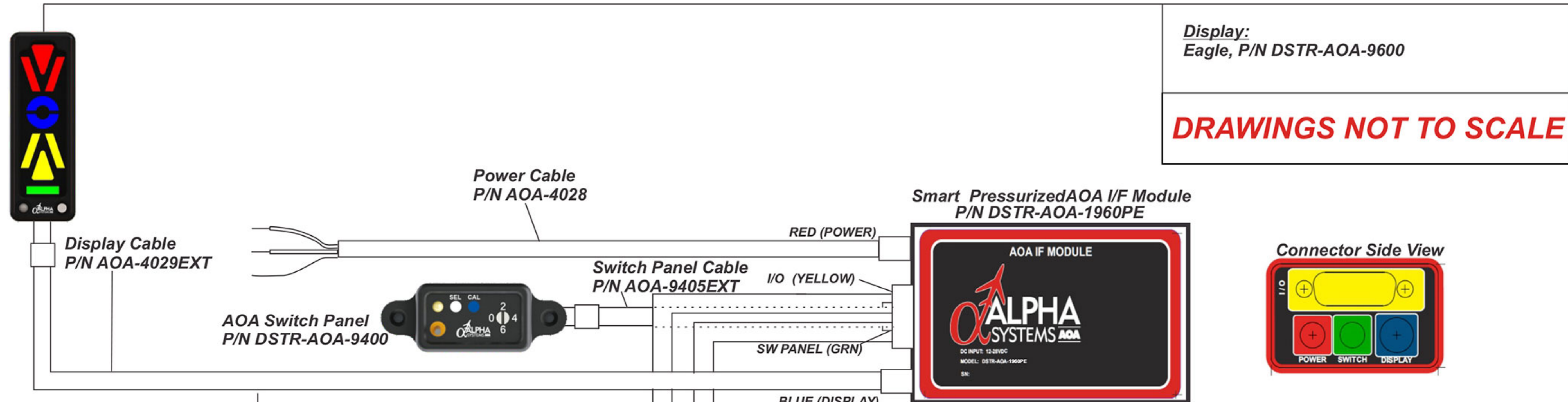


Alpha Systems AOA Eagle Pressurized Above Dash HUD System Diagram DSTR-AOA-9600K-(ADH)

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

DRAWINGS NOT TO SCALE



Power Cable pigtail connections

| Wire Color | Definition |
|------------|-----------------------------|
| 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)

| 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 |
| 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 | +5VDC |
| | 2 | Ground |
| | 3 | I2C Clk (SCL) |
| | 4 | I2C Data (SDA) |
| | 5 | Reserved |
| | 6 | Reserved |

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

Cable pigtail connections to Aircraft Audio Panel:

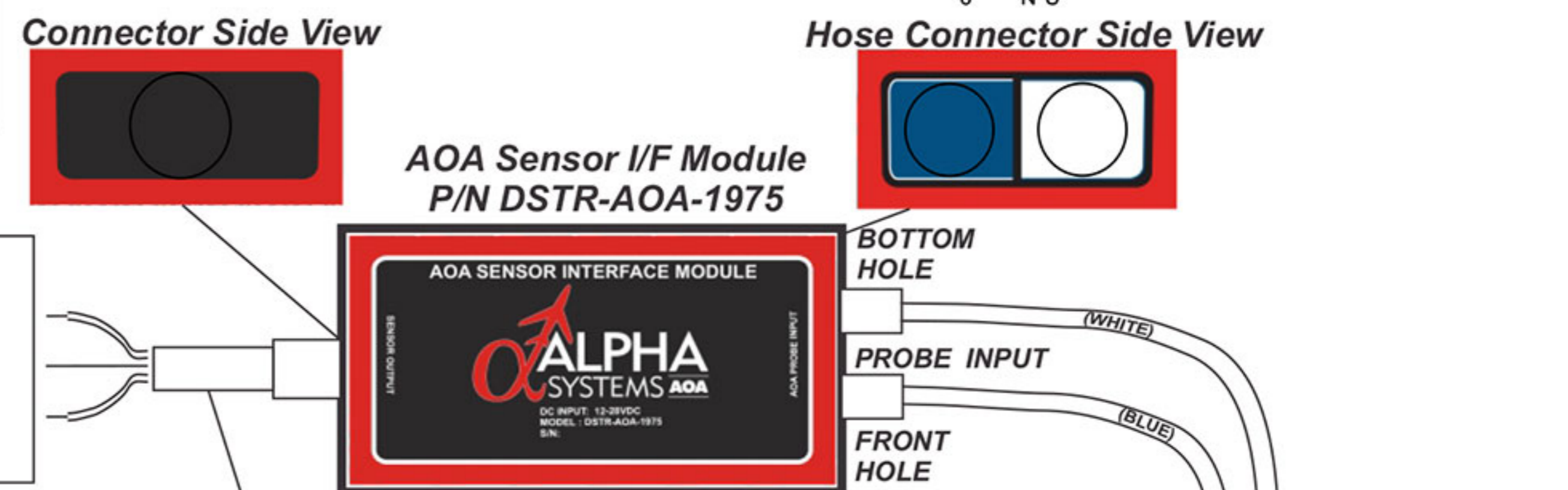
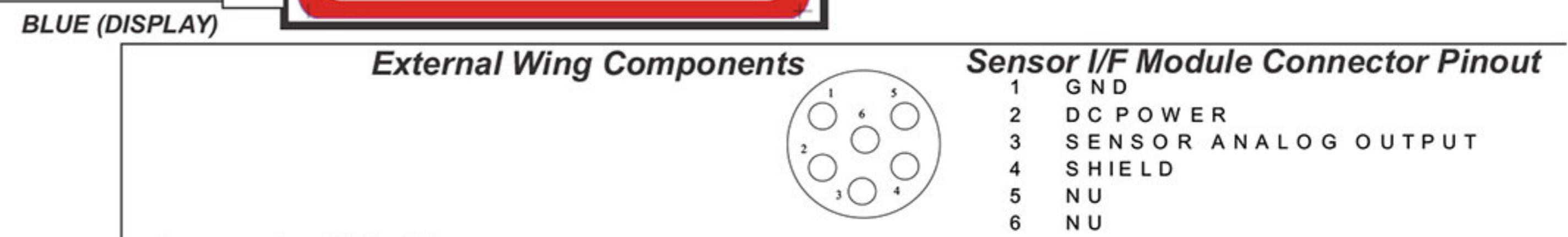
| Signal | Wire Color |
|-----------------|-------------|
| AP Audio (mono) | White/Green |
| AP Ground | White/Black |
| Shielding wire | Bare Wire |

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

Cable Pigtail Connections to Bulkhead Connector

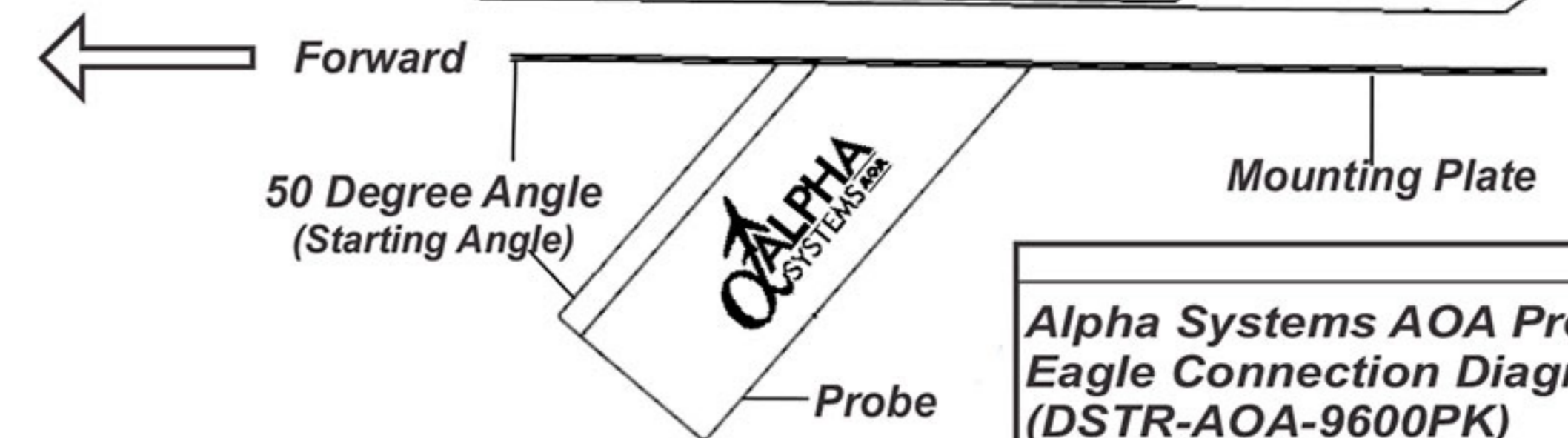
| Signal | Wire Color |
|----------------------|------------|
| Sensor I/F Ground | White/Blk |
| Sensor I/F Power | White/Red |
| Sensor Analog Output | White |
| Shielding wire | Bare Wire |

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



Cable Pigtail Connections to Bulkhead Connector

| Signal | Wire Color |
|----------------------|------------|
| Sensor I/F Ground | White/Blk |
| Sensor I/F Power | White/Red |
| Sensor Analog Output | White |
| Shielding wire | Bare Wire |



| | | |
|--|------------|-------|
| Alpha Systems AOA Pressurized Eagle Connection Diagram (DSTR-AOA-9600PK) | | |
| DWG NO. SCH 004 | 03-07-2017 | REV E |