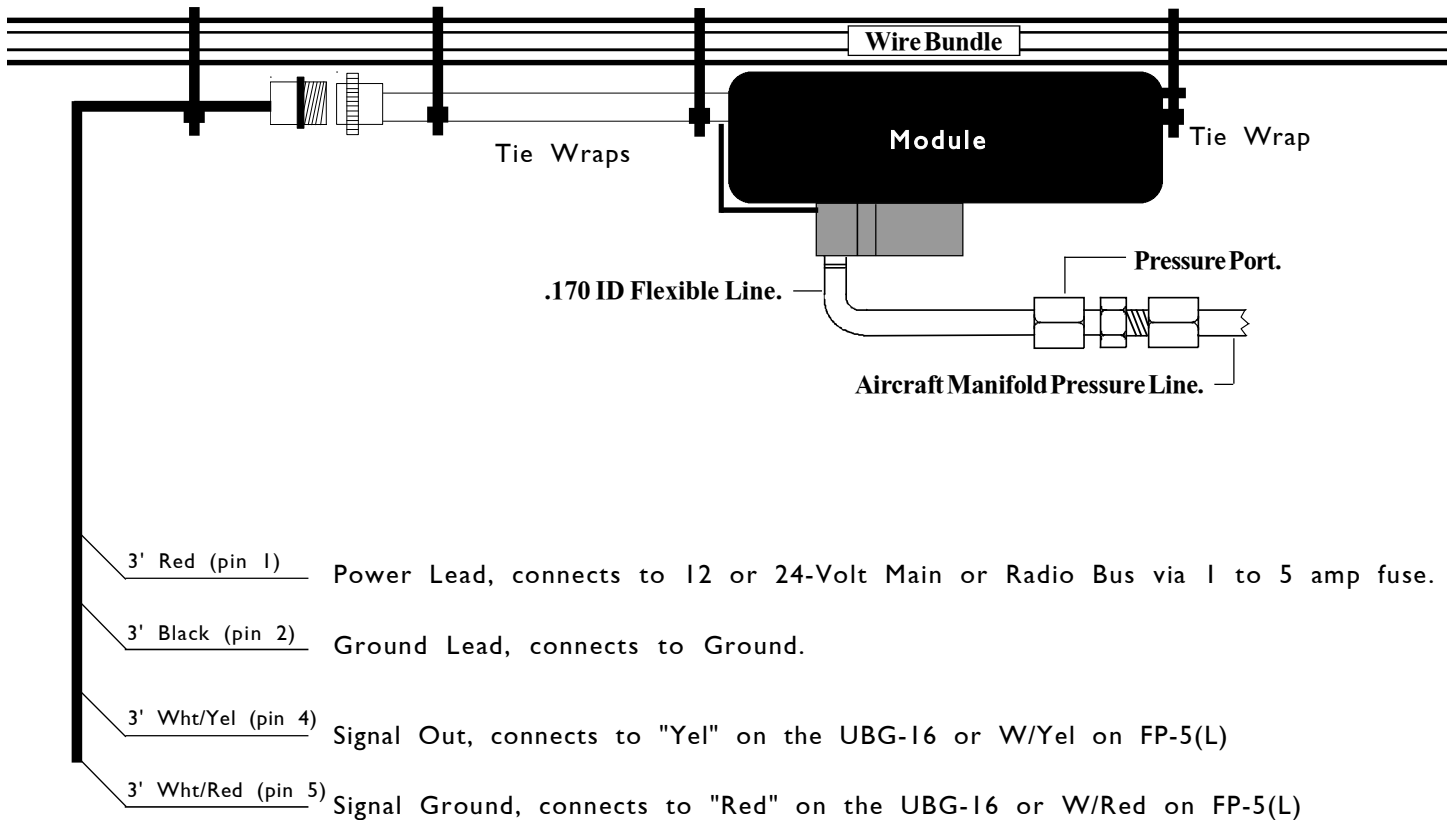


# Manifold Pressure Functional Module (FM-MP) Installation Instructions and Wiring Diagram

1110981

II 1119981 Supplement (UBG-16)  
II 0506931 Supplement (FP-5(L))

11/10/98



## 1. Mount the Module and Connect the 9-Pin Wire Harness:

Tie wrap the FM-MP Module to a wire bundle under the aircraft instrument panel. Connect the 9-Pin Wire Harness to the Module.

## 2. Route the Power and Ground Wires:

Route the red wire in the wire harness to the aircraft's 12 or 24-volt radio or main bus as applicable via a 1 to 5 amps fuse. Route the black wire in the wire harness to a good ground. **Tie wrap these wires so they do not obstruct the freedom of travel of any controls.**

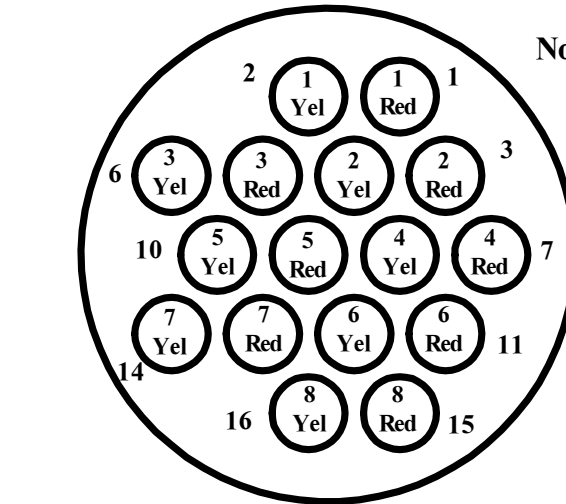
## 3. Connect the Manifold Pressure Line:

Connect the aircraft manifold pressure line to the pressure port on the FM-MP Module. Be sure this line is tight. This pressure port is a 1/4" flare union and is standard for most manifold pressure gauges. Care should be taken not to put excess pressure on the flexible line between the flare union and the pressure transducer mounted on the back of the instrument. The Pressure Transducer Port can break. **Make sure the flexible pressure line does not have any kinks.**

**5. Route the Signal Out and Ground Wires to the UBG-16:**

Route the White/Yellow wire to the appropriate left or right channel marked "Yel" on the UBG-16. Route and connect the White/Red wire to the appropriate channel marked "Red" on the UBG-16. **Tie wrap all wires so they do not obstruct the freedom of travel of any controls.**

**UBG Extension Cable Harness (Left or Right)  
Back View (wire side)**

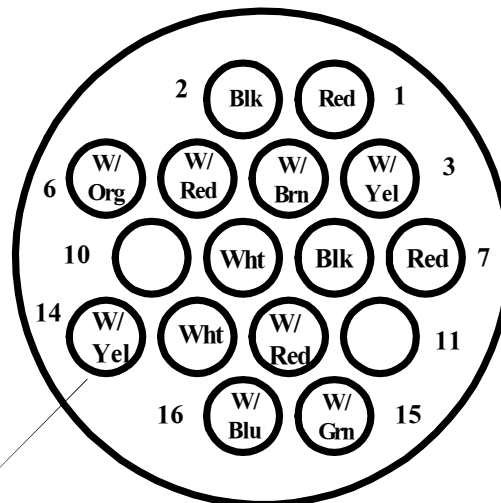


Note: 1 Red = Channel #1 Red wire (Gnd)  
1 Yel = Channel #1 Yel wire (Signal)

**6. Route the Signal Out and Ground Wires to the FP-5(L):**

Route and connect the White/Yellow wire to pin 14 on the FP-5(L) connector. Route and connect the White/Red wire to pin 12 on the FP-5(L) connector. **Tie wrap all wires so they do not obstruct the freedom of travel of any controls.**

**FP-5(L) Extension Cable Harness, Back View (wire side)**



12 through 14 connects to a Functional Module

## **Specifications and Operating Features**

**Model:**

FM-MP (Manifold Pressure Functional Module)

**Case Dimensions:**

3" x 2" x 1"

**Weight:**

Module Only: 2.8 Oz.

**Environmental:**

Meets TSO C45.

**Power Requirements:**

7.5 to 35 Volts, 1/10 Amp.

**Accuracy:**

2% or better in accordance with TSO C45.

**Resolution:**

.1 in Hg.

**Max Range:**

60 in Hg.

**Pressure Port:**

1/4" male flare union mounted on a .170" flexible tube.