



# SERVICE INSTRUCTION

SI-34-02  
Revision 1

**TITLE: Flap Indicator Replacement**

## **SUBJECT / REASON / DESCRIPTION:**

UMA Instruments, the manufacturer of the "Flap Gauge", has changed connector type and eliminated the requirement for a drop resistor to adapt to 28 volt aircraft. This service instruction details the required modifications of the wiring harness to accept the new gauge.

At Revision 1 Figure 2 has been corrected to show the proper pin designations for the flap gauge, UMA Instruments p/n N0911000301000.

## **COMPLIANCE:**

Compliance is optional.

## **EFFECTIVITY:**

All FBA-2C1 and FBA-2C2 with UMA Flap Gauge p/n 9-110-30 installed.

## **APPROVAL:**

This modification has been approved by FAC Engineering and TCCA where applicable.

## **MANPOWER REQUIREMENTS:**

It is estimated that the modification will take approximately 1 hours. This excludes labor necessary to open and close the aircraft, and work is performed by experienced personnel.

## **SPECIAL TOOLS / EQUIPMENT:**

Common avionics installation tools, (Soldering iron, shrink tube, wire etc.).

## **PARTS LIST (BILL OF MATERIALS):**

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### **Found Aircraft Canada Inc.**

R.R.#2, 95 Airport Rd., Parry Sound, Ontario, Canada, P2A 2W8  
T (705) 378-0530 F (705) 378-0594

[www.foundair.com](http://www.foundair.com)

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UMA Instruments p/n N0911000301000 (Includes 9 pin D-Sub connector).

**WEIGHT & BALANCE:**

Negligible

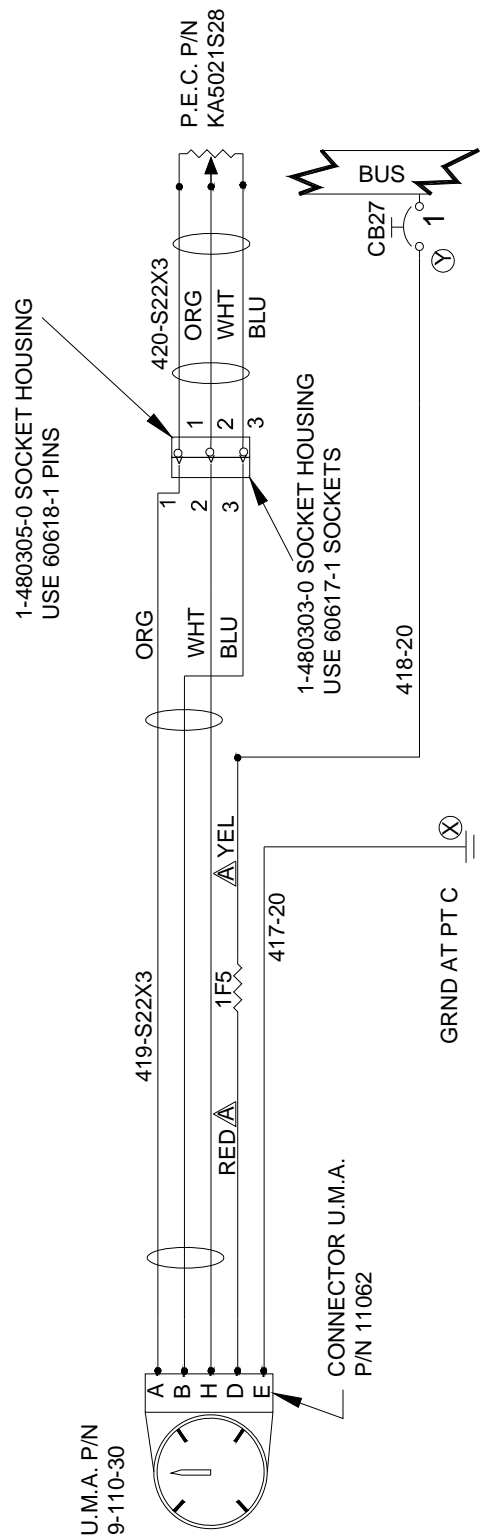
**DRAWINGS/MANUALS:**

n/a

**IMPLEMENTATION INSTRUCTIONS:**

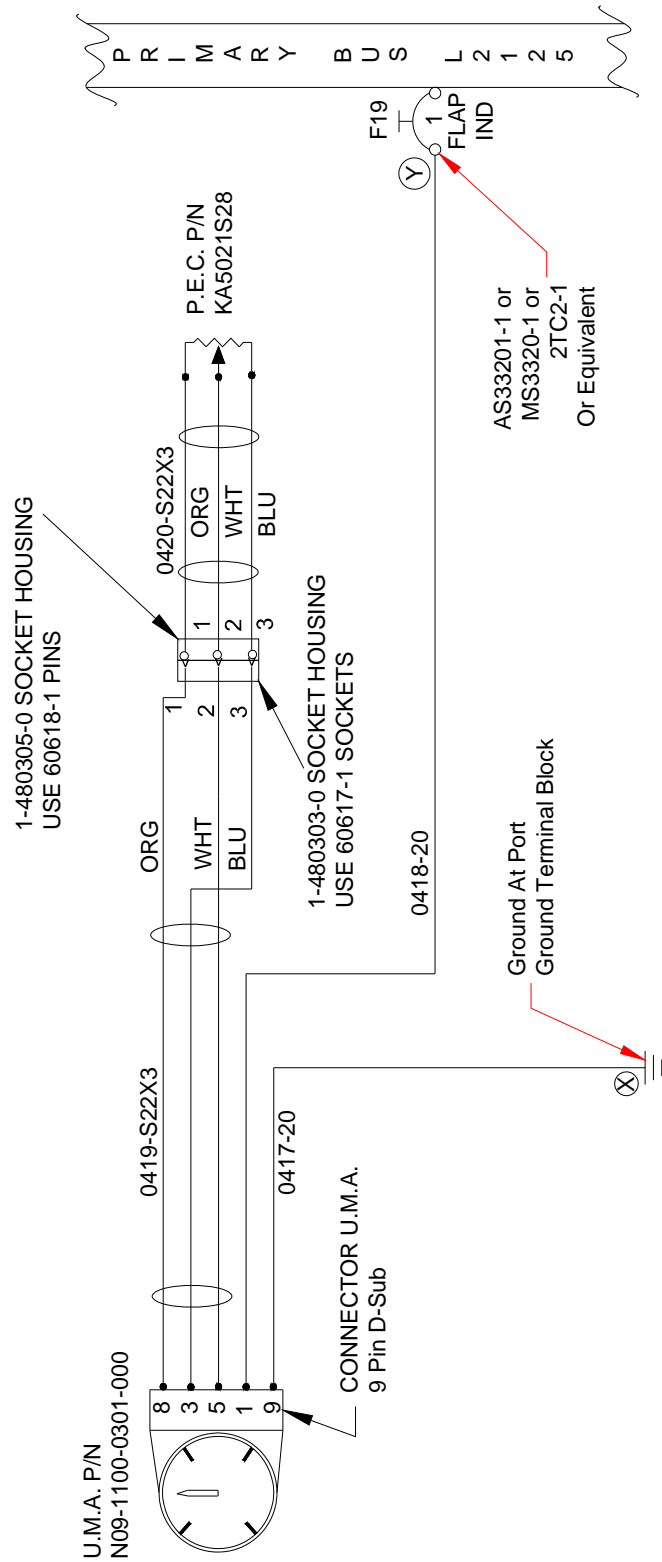
1. Figure 1 shows the original flap indicator system schematic. Figure 2 shows the updated flap indicator schematic. The installation technician will note the similarity between the two installations but for two items: The updated schematic no longer has the 1F5 resistor and the 9- Pin D-Sub connector uses numerals rather than letters to designate positions.
2. The technician shall disconnect the wires as shown in Figure 3 and attach the new connector per Figure 4. Extend or shorten wires as required.
3. Any replacement wires shall be M22759/16, M27500 or equivalent.
4. All wiring shall be installed per AC43.13-1A - latest revision.

- SOLDIER JOINT
- ▲ VENDOR SUPPLIED
- ⊗ PN18-10R-C
- ⊙ PN18-8R-C

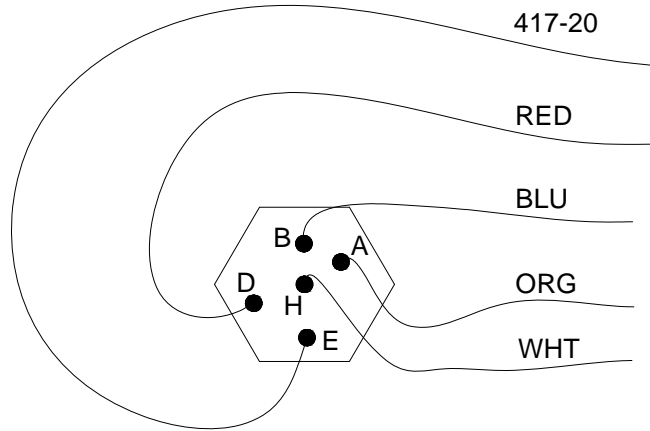


**Figure 1 Original System Schematic**

- SOLDIER JOINT
- ▲ VENDOR SUPPLIED
- ⊗ PN18-10R-C
- ⊙ PN18-8R-C

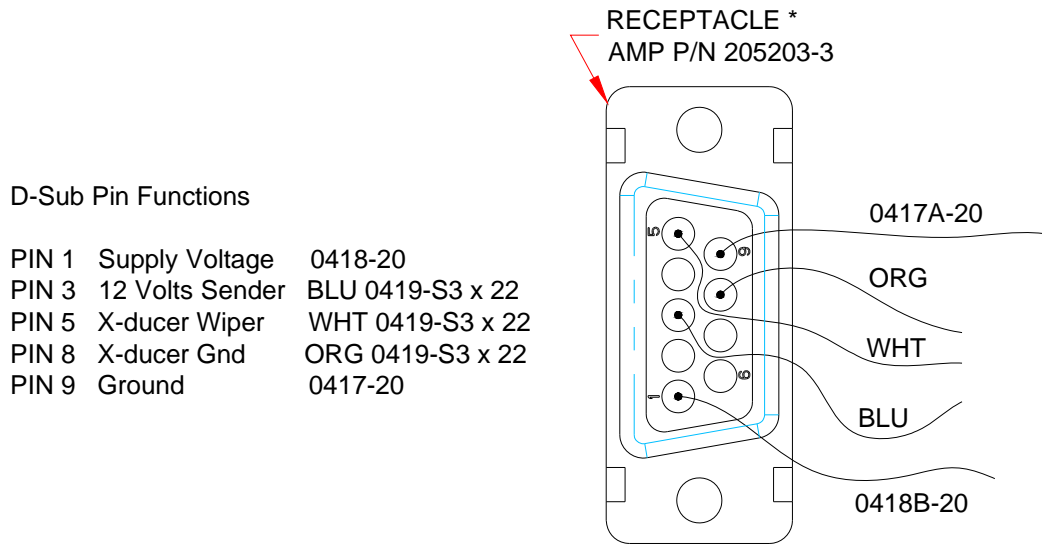


**Figure 2 Updated System Installation Schematic**



View On Back Of UMA 11062  
5 Pin Circular Connector

Figure 3 UMA Circular Connector



D-Sub Pin Functions

PIN 1	Supply Voltage	0418-20
PIN 3	12 Volts Sender	BLU 0419-S3 x 22
PIN 5	X-ducer Wiper	WHT 0419-S3 x 22
PIN 8	X-ducer Gnd	ORG 0419-S3 x 22
PIN 9	Ground	0417-20

View On Back Of UMA  
9 Pin D-Sub Connector  
(AMP P/N 205203-3)

Figure 4 UMA 9-Pin D-Sub

## **LOG BOOK CERTIFICATION:**

Wording to be used in log book to declare that the service instruction has been accomplished.

An example wording is as follows:

1. *Upon completion make an appropriate Log Book entry stating "SI 34-02, Rev 1 has been accomplished. "*