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# **SERVICE BULLETIN**

## **AP-SB15**

### **AP308 GEARMOTOR PINNING**

Date of Issue: 17May 2002

Applicability: Propeller Models: [Insert Models Affected]  
Serial Numbers: [Insert Serials Affected]

Compliance: Initial: [Insert Time for Initial Compliance]  
Subsequent: [Time for Subsequent Compliance]

## **1 Introduction**

This document ...

## **2 Material Information**

### **2.1. Parts Required**

<i>Quantity</i>	<i>Part Number</i>	<i>Description</i>

### **2.2. Special Tooling**

## **3 Instructions**

### **3.1. Removing gearmotor from motor mount plate**

You will need to start by removing the pc motor from the mounting plate.

- a. Cut the red and black wires next to the terminals of the sliping (note their position on the sliping) (be ready to feed the red and black wires into the hub as the pitch change motor is removed.)
- b. Mark the current position of the microswitch mounting rings against the gearbox housing
- c. Loosen the grub screws holding the coarse microswitch mount ring, and move the microswitch clear of the 6-32unc screws beneath.

- d. Remove the 4 x 6-32inc cap screws that mount the gearbox base to the motor mount plate. (note the orientation of the gearmotor on the motor mount plate.)
- e. Remove the gearmotor from the motor mount plate, feeding the red and black wires into the hub as the motor is withdrawn.

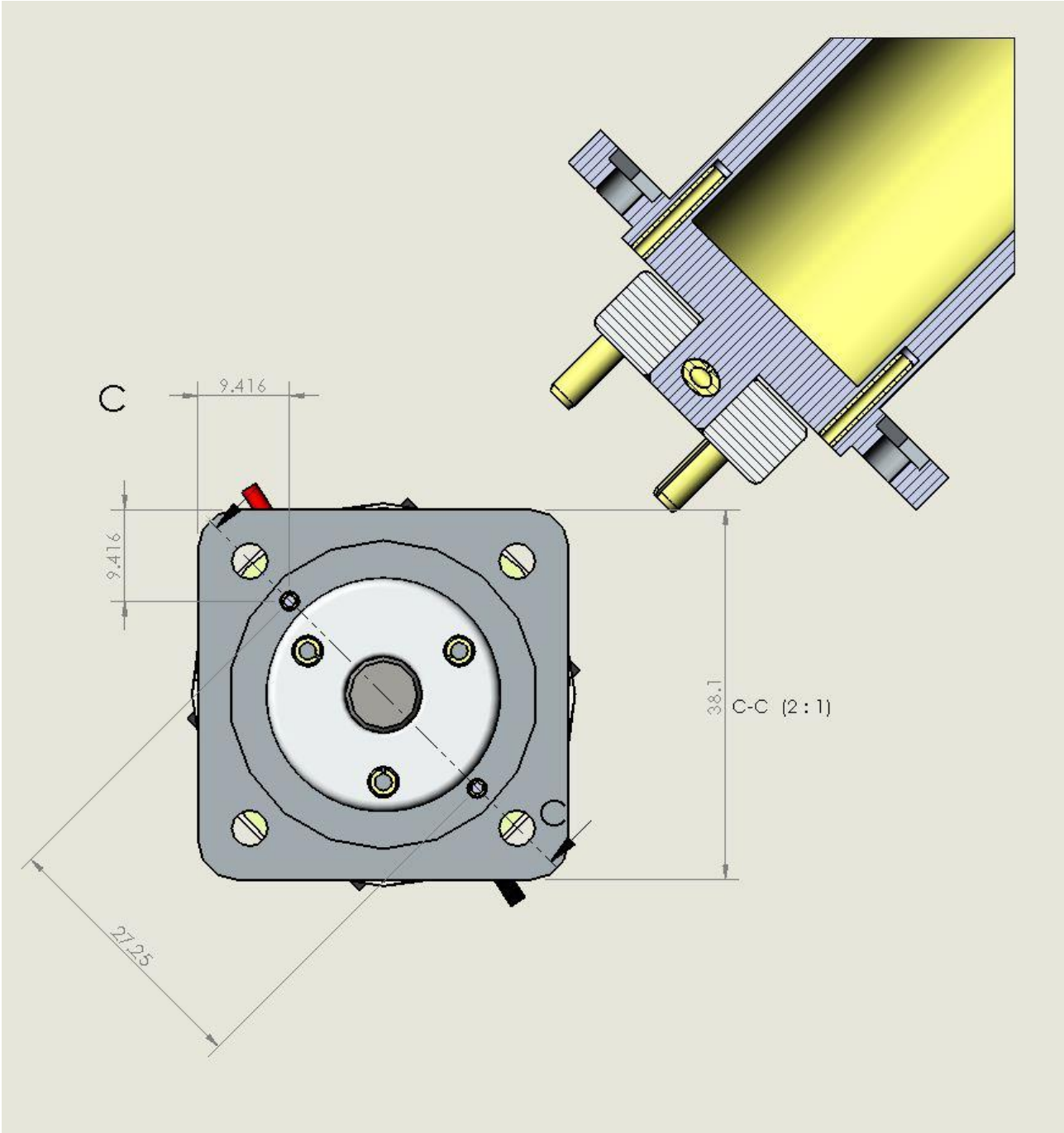
### **3.2. Gearmotor assessment**

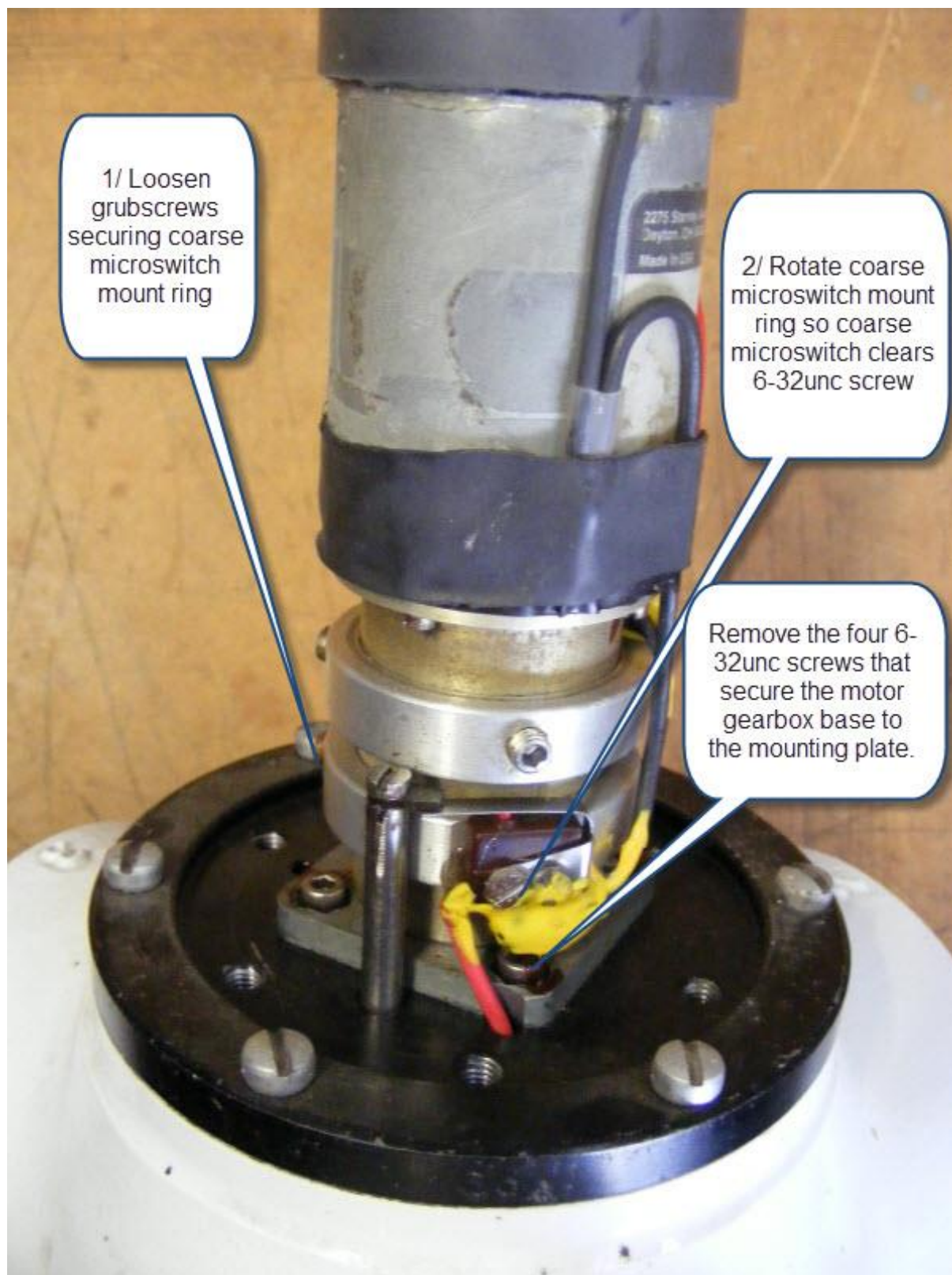
- a) Assess if the condition of the 3-48unc screws and the threaded holes in the gearbox barrel for servicability.
  - i) If they are serviceable, continue to reassembly of the gearbox and pinning of the base.
  - ii) If the holes are damaged, rotate the base to a fresh area of the gearbox barrel, then drill new holes at 2.1mm then tap with 3-48unc thread.
- b) Reassemble gearbox base plate to the gearbox barrel using 3-48 screws and Loctite 243 or similar.

### **3.3. Pinning gearbox base plate**

The possibility of the 3-48unc screws loosening in future can be greatly reduced by pinning the gearbox baseplate to the gearbox barrel.

- a) mark the gearbox base plate according to attached diagram (gearbox pinning).
- b) b/ drill two holes where marked to a depth of 15mm. (this should be performed in a drill press using a drill pecking action to clear the swarf from the drill)
- c) c/ press 2x 2mmx 12mm roll pins into the two holes. ( you can substitute the shank of a 2.1mm drill if no roll pins are available. If you do this the drill shanks should be held in with Loctite243 and ground off flush with gearbox base plate surface.)





#### 4 Completion

<i>Description</i>	<i>Check</i>
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