

# JJC Aviation Flap Handle Cover

## Model # FC201

Thank you for your purchase. We hope that you will enjoy the look of your newly updated flap handle for many years to come. After spending years looking at the scratched and pitted flap handle in our test aircraft we finally decided to do something about it. Our first thought was to sand and paint the handle, but we didn't want to have to remove the handle from the aircraft and if we tried to paint it with it still attached we would have had to do a lot of masking and would still risk getting paint all over the place. Plus sanding and painting the handle would only provide a temporary fix since we were always banging up against the handle getting into and out of the aircraft. One day it hit us that a large diameter section of shrink tubing may be the answer. We experimented with several different types of tubing over a period of many weeks and finally settled on a type that was durable, flame-retardant, and fairly easy to install. The end result is a 1 foot section of tubing that will fit on any flap handle (Or any other round handles) that is 3/4" to 7/8" in diameter. The exposed length on the handle should not exceed 12 inches subtracting the length of the grip. It is simple to install with a high heat blow dryer or heat gun. When installed it will have a dark gray texture and be highly resistant to minor dings. This tubing will conform to small radius bends and cover most scratches and minor surface imperfections. We also sell separately special handle grips designed with a cutout for a release button that complements the cover.

## INSTALL INSTRUCTIONS

Installing the flap handle cover is a simple process, but extra care should be taken to insure that the installation is neat and clean. Please read the Special notes section before starting the install process.

1. Remove the old handle grip from the flap handle. **BEFORE** removing the grip make a mark around the base of the grip so that you will know how far it extends down the shaft. If removing the grip proves difficult the old grip can be cut off and replaced with one of the new grips that we sell to compliment this cover.
2. If the shaft is heavily scratched or pitted, lightly sand the shaft to smooth the surface. The shrink tubing will cover most minor surface imperfections but sharp burrs and deep scratches might be noticeable if not smoothed over before applying the tubing to the shaft. It is not necessary to remove old paint or apply new paint before installing the tubing.
3. Slide the tubing over the shaft. For best results keep heavy creases to the sides of the shaft. When heat is applied the creases will work their way out, but the shaft will look better from the top. Also make sure that the end of the tubing does not extend more that 1/8 to 1/4 of an inch past the mark you made in step two. If the tubing extends too far into the grip area the tubing will "bunch" up when the grip is reinstalled. Trim the tubing if necessary.
4. Raise the flap handle so that you can easily get all around the handle. Hold the tubing in place to prevent it from slipping and using a high heat hair dryer or heat gun, apply heat to the tubing to tightly shrink the tubing around the shaft. It is best to apply the heat from the bottom of the shaft first until the tubing starts to tighten on the shaft especially if there are any bends in the shaft, then start applying heat uniformly all around the shaft until the tubing has tightly gripped the shaft and all creases have been removed from the tubing.

5. Reinstall the grip onto the shaft. We do not recommend using glue on the grip unless for some reason the grip will not fit tightly on the handle. It make it easier to slide the grip onto the shaft use a light coating of soapy water on the top section of the shaft. This will allow the grip to slide easily onto the shaft and once the water dries the grip will stay tight on the shaft.

### **SPECIAL NOTES**

- This one foot section of tubing include in this package has been found to be long enough to cover the exposed area of most common flap handles, if you discover that your particular install requires a longer length of tubing it is possible to use another section of tubing to extend the length. If you take this option install the extended section onto the shaft first, heat it to assure a tight fit, then install the main section of tubing either butting it tightly against the extended section while applying heat or let the main section slightly overlap the extended section.
- After the install check that the flap handle does not rub against any part or cover on the aircraft. If it does make adjustments or trim components as necessary to provide proper clearance.
- Do not use any oil or lubricants on the exterior of the shaft.

### **LIMITED WARRANTY**

JJC Aviation Inc. warrants this product to be free of defects in manufacture for a period of one year from the date of purchase by the original retail purchaser. This warranty is not transferable to any other purchaser or user of the product. JJC Aviation's liability is limited only to the repair or replacement of the defective product. We are not responsible for problems related to misuse, abuse, improper installation, or damage to other aircraft components or systems. To obtain service under this warranty the purchaser must contact JJC Aviation Inc. to obtain an RMA number before the product will be accepted for repair. Items shipped to JJC Aviation Inc. without an authorized RMA number may be returned to the sender without being repaired. Once the RMA has been issued the product must be returned to the address below. The RMA number should be clearly written in on the outside of the package. It is the responsibility of the sender to properly package the product. The shipment must be prepaid. JJC Aviation Inc. cannot accept packages sent collect or postage due. Once the item has been received JJC Aviation Inc. will notify the sender and provide an estimated return date. JJC Aviation Inc. will repair or replace the defective product at their discretion. Once service has been completed JJC Aviation Inc. will return the product prepaid to the indicated return address.

**For Warranty services obtain an RMA and return to this address:**

**JJC Aviation Inc.**

**5000 Hwy 17 Suite 18 #215**

**Fleming Island, FL 32003-8230**

**Attention: RMA # (Insert number issued)**