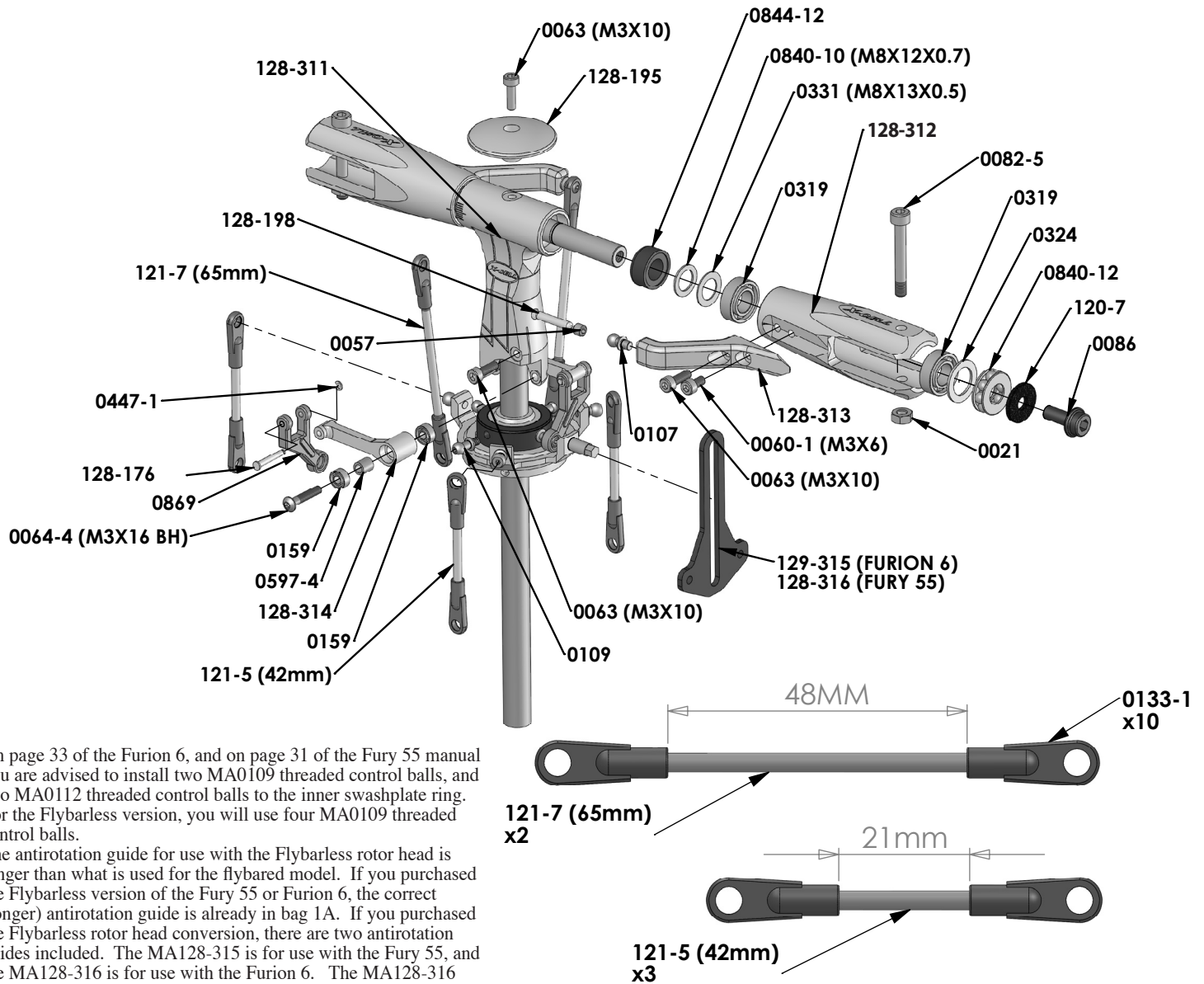


FLYBARLESS ROTOR HEAD ASSEMBLY

The MA128-310 Flybarless rotor head is available with the MA1028 Fury 55, and MA1029 Furion 6 helicopter kits. It is also available as an option part. For the use of a Flybarless rotor head we HIGHLY recommend the use of electronic stabilization electronics. There are several that are readily available.

If you are building the entire helicopter kit, you will notice that there are some changes from the flybared model. **Please note that the use of thread locking compound is required for all bolts that are threaded into metal. We recommend using X-Cell super-lock blue (MA3200-22) medium strength.**



- On page 33 of the Furion 6, and on page 31 of the Fury 55 manual you are advised to install two MA0109 threaded control balls, and two MA0112 threaded control balls to the inner swashplate ring. For the Flybarless version, you will use four MA0109 threaded control balls.
- The antirotation guide for use with the Flybarless rotor head is longer than what is used for the flybared model. If you purchased the Flybarless version of the Fury 55 or Furion 6, the correct (longer) antirotation guide is already in bag 1A. If you purchased the Flybarless rotor head conversion, there are two antirotation guides included. The MA128-315 is for use with the Fury 55, and the MA128-316 is for use with the Furion 6. The MA128-316 contains pem nuts installed at the factory.
- The linkages from the servos to the swashplate are different. Instead of using the MA0337 m2x30 threaded link rods, and MA0331 ball links, you will use the MA121-5 m3 x 42 threaded link rods, and MA0331-1 m3 (grey) ball links as shown on page 34 in the Fury 55 manual, and page 37 in the Furion 6 manual. The finished lengths of these linkages are shown above.
- Assemble the linkages that connect the inner ring of the swashplate to the pitch arm using two MA121-7 m3 x 65 threaded control rods, and four MA0133-1 m3 (grey) ball links. The lengths of these linkages are shown above.
- Assemble the MA 128-314 washplate follower arms. Attach the MA0869 plastic washout link using the MA128-176 washout pin, and secure the pin with an MA0447-1 e-clip. Insert the MA0159 m3 x 7 x 3 ball bearings, MA0597-4 brass spacers into the washout arm, and use an MA0064-4 m3 x 16 button head bolt to secure the arm to the rotor head as shown. Please note the orientation of the washplate follower arms in the image.
- Insert the MA0844-12 1 piece dampers into the rotor head. Insert MA128-187 head axle through the dampers (grease is not necessary). Study the image carefully, and install the MA0840-10 m8 x 12 x .7 shim followed by the MA0331 m8 x 13 x .5. onto the head axle. It is important that the MA0840-12 be installed directly next to the damper.
- Install an MA0319 m8 x 16 x 5 ball bearing into each end of the MA128-312 aluminum blade grip. On the root side of the grip, also install the MA0324 m10.75 x 16 x 1 shim, followed by the MA0840-12 thrust bearing. It is important that a high quality grease (we recommend Tri-Flow MA3200-06 synthetic grease) is used. There are 3 parts to each thrust bearing. Make sure you install the outer race with the larger inside diameter first, followed by the ball cage (orient the ball cage so that the grease is captured when the rotor head is spinning) and finally the other outside race with the smaller inside diameter. Install the MA120-7 carbon safety washer, and attach the aluminum blade grip assembly to the head axle using the MA0086 m5 x 8 flanged socket bolt.
- Install the MA0107 threaded control ball onto each of the MA128-313 flybarless pitch arms. Attach these arms onto the blade grip assembly using MA0060-1 m3 x 6, and MA0063 m3 x 10 socket bolts as shown in the illustration.
- Install the rotor head onto the main shaft. Notice the hole in the main shaft should line up with the hole in the rotor head. Install the MA128-198 dowel pin into this hole, and secure with the MA0057 m4 x 4 socket set screw.
- Install the head button (if you are converting your Fury 55 or Furion 6, you will re-use the head button originally included with your kit). Using the MA0063 m3 x 10 socket bolt.
- Install the rotorblades you have chosen using the MA0082-5 m4 x 30 socket bolts and MA0021 m4 locknuts.