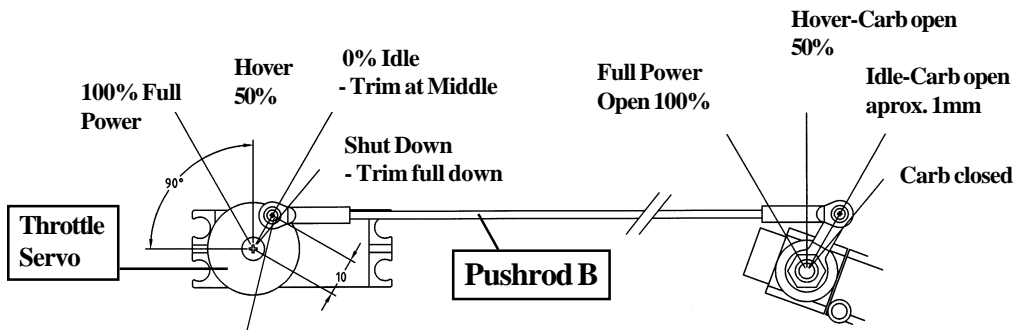
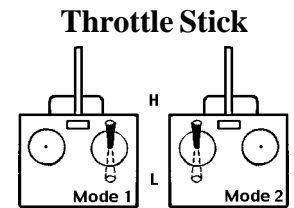


## STEP 44 Throttle Linkage

From Bag 4: Using threadlock on the nut only, attach one steel ball with one M2 Hex nut, to both the Throttle servo horn and the Throttle Extension from Step 17. Position the ball at 10mm from the center of the servo and in the outermost hole on the metal throttle arm. With the radio on, the throttle stick centered and the trim in the center, press the servo horn onto the servo so the ball is at 90 degrees to the servo ( the hovering position ). Move the throttle stick to the low/idle position and lower the trim fully down, while holding the loose end of pushrod (B), check that the ball link centers exactly over the steel ball on the servo horn. If necessary, increase or decrease the ATV low setting to bring them into alignment. The external trim on the throttle stick will allow the engine to idle well, yet shut down the engine when the trim is fully lowered or a "Throttle Cut" switch is thrown. Repeat the procedure for the throttle stick at 100%-full power position. Remember that it is important that the servo does not bind. If the ATV settings are more than 10 points different, it is better to reposition the carburetor lever.



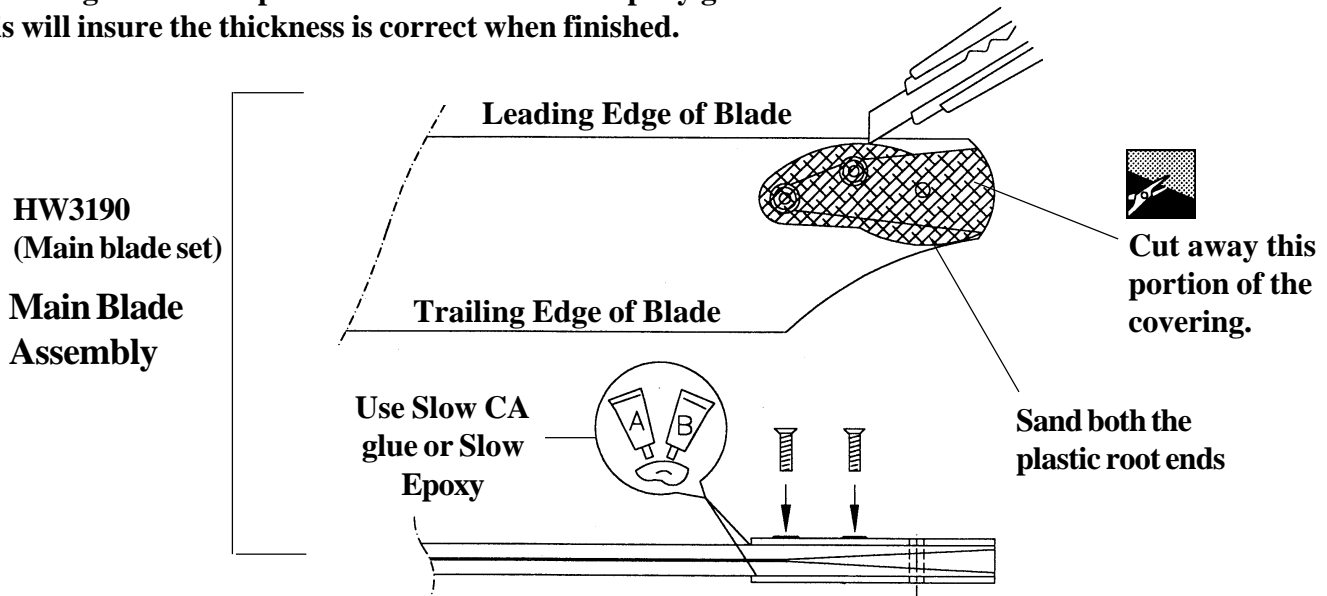
Steel Ball for Servos [CNLR1013]



As the throttle stick is moved from the low position to the high position, pushrod B moves backwards as the servo turns counter clockwise.

## STEP 45 Assembly of ARF Main Blades

The Main Rotor Blades in the Hawk kit are pre-built and balanced, the only work required is to glue the blade grip root ends to the blades ( **Please note that this step is necessary to insure the blades will not separate from the helicopter during flight!!** ). Temporarily install the root ends ( see note ) onto the blades by cutting the covering over the holes and using a pencil, mark the outline of the plastic parts on the covering. Remove the root ends and mark a second line about 3mm inside the first and trim away this internal portion of the covering with a sharp hobby knife. Using some sandpaper roughen the plastic root ends and glue them in place with Slo CA or slow epoxy glue. Install the blades onto the rotor head to dry. This will insure the thickness is correct when finished.



Note: The plastic blade grips have a top and a bottom which are different when viewed from the large end. Test fit the parts to be sure that the total thickness of the blades are 12mm. The 3mm brass tube and four M4x20 flat washers are not needed on the helicopter.