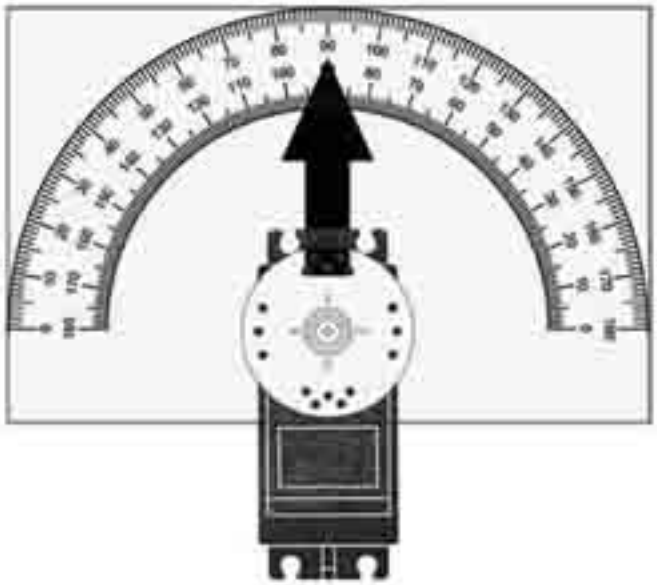
Using the programmers' center and end point function.

Please note that this function will match servos to each other but will not match them to the transmitter. This will be explained latter.



To begin matching the servos it is suggested that a jig be used. A jig will help simplify the setup process. The simple jig to the right can be made quickly using common materials. The following instructions will assume a jig is being used.

Place the servo in the jig slot and plug it into the programmer. Turn the programmer on and after it initializes scroll through the menus until the **"Reset"** menu is found. Press the **INPUT** button to enter the reset menu. When the programmer is ready, press both the **UP/L** and the **DN/R** buttons simultaneously. The programmer will then reset the servo to factory defaults.

After the servo has been reset, go to the **"Manual"** test menu. Press the **INPUT** button to enter the menu. Once in the menu, press the **M** button. This will send the servo a 1500ms pulse, which is neutral. Place the horn on the servo so the point is as close to zero as possible. Press the **INPUT** button twice to exit this menu.

By pressing the **DN/R** button 4 times, you will arrive at the **"EPAneuFS"** menu. Press the **INPUT** button to enter the menu. If you see a single arrow on the screen, turn the knob in the direction it indicates until another arrow appears. This is the programmers' way of telling you that you are now close to center.

Adjust the knob until the point on the horn is at 0 degrees on the jig. Once it is in this position, press the **M** button to set the new neutral position. Now turn the knob to the left until you reach your desired throw. This is usually between 45 and 60 degrees from center. Once the horn point is at the correct position, press the **UP/L** button. This will set the left throw. Turn the knob to the right until the desired throw is reached and press the **DN/R** button. Now the right throw is set also. Press the **INPUT** button to get out of the menu.

To match other servos to the first one, follow the same procedure for each one making sure that all the center and end points are set to the same positions.

The programmer is set up with 1500us as neutral, 900us as left extreme and 2100us as the right extreme end. When you reset the servo or program the center and end points, these values will always be center and extreme ends. In other words, if you were to go to the **"Manual"** menu in the programmer and press the **M** button, the servo will go to the position you programmed for neutral. This is because by pressing the **M** button the programmer sends a 1500us pulse to the servo. If you were to then install the servo in a receiver and the transmitter being used has a neutral pulse of 1520ms, your servo will be approximately two degrees off the programmed center. The only way to then return to the programmed center is to use either sub-trims or the standard trim of the transmitter