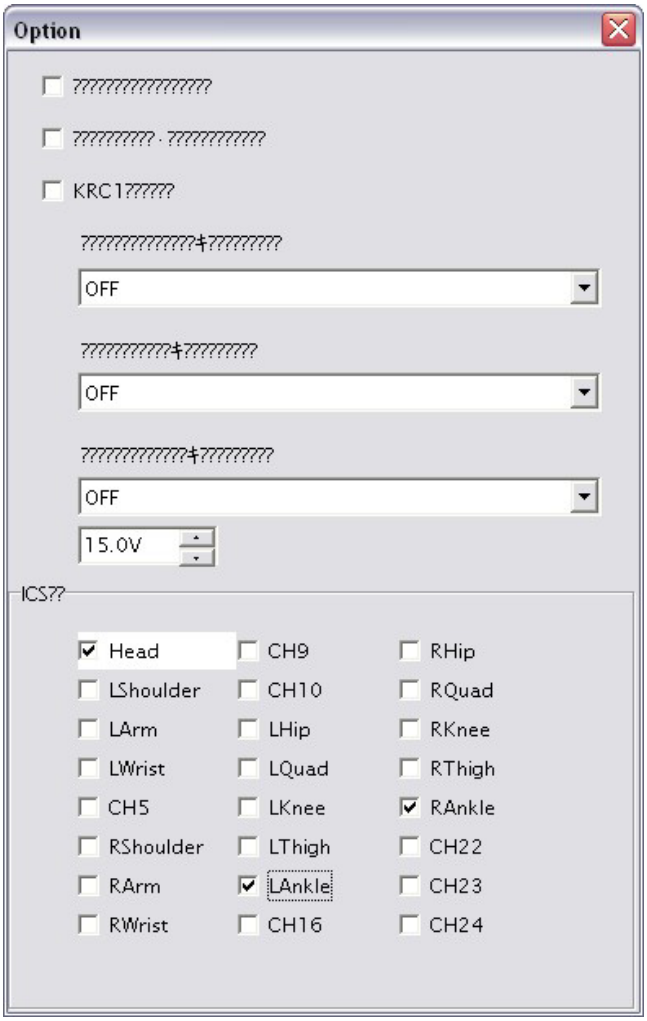
**ICS Servo customization with Heart-to-Heart version 3.0 and the KHR-2HV**

Unlike the KHR-1, the RCB-3J controller for the KHR-2HV has the ability to edit the KRS-788HV ICS digital servo settings with the USB connection supplied with the kit. This document will step by step show you how to set servo limits. I have not explored any other settings that are shown. **Perform these modifications at your own risk!!!**

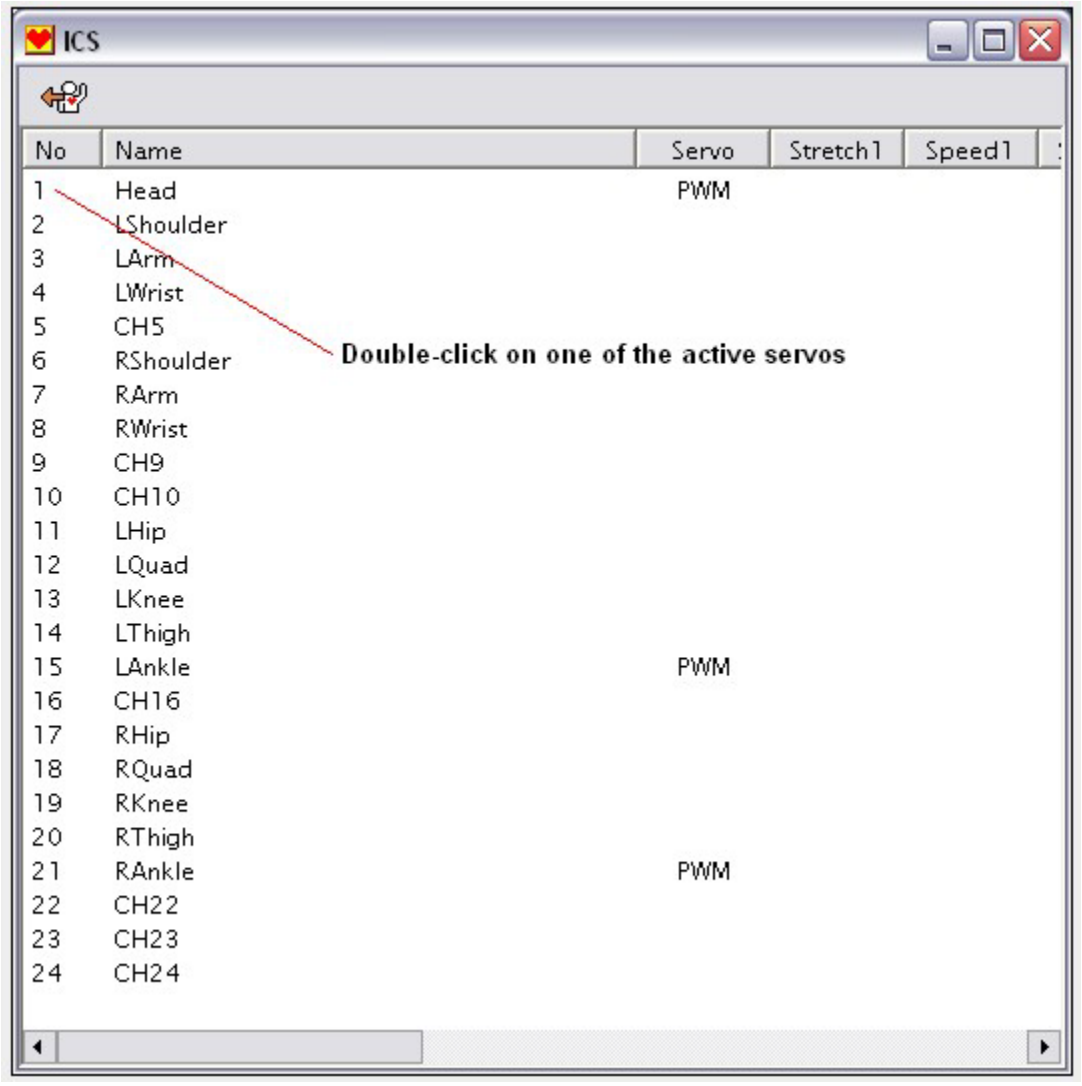
Start Heart-to-Heart v3.0 and switch on the KHR-2HV. Hit the ICS config window button (the wrench).


This will bring up the ICS config windows below. Toggle on the servos that you wish to customize and close the window.

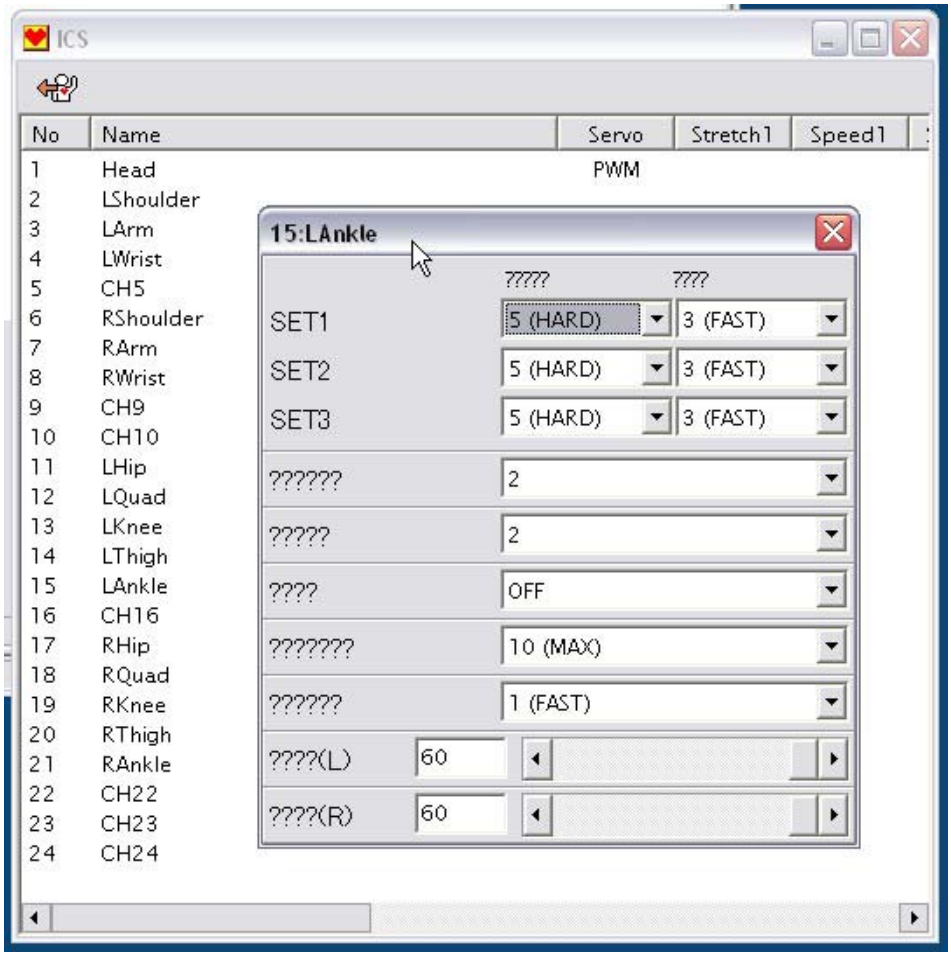


Now hit the little servo botton.


Now the ICS servo window opens up as shown below. **Go to the next page! Don't double click yet!**

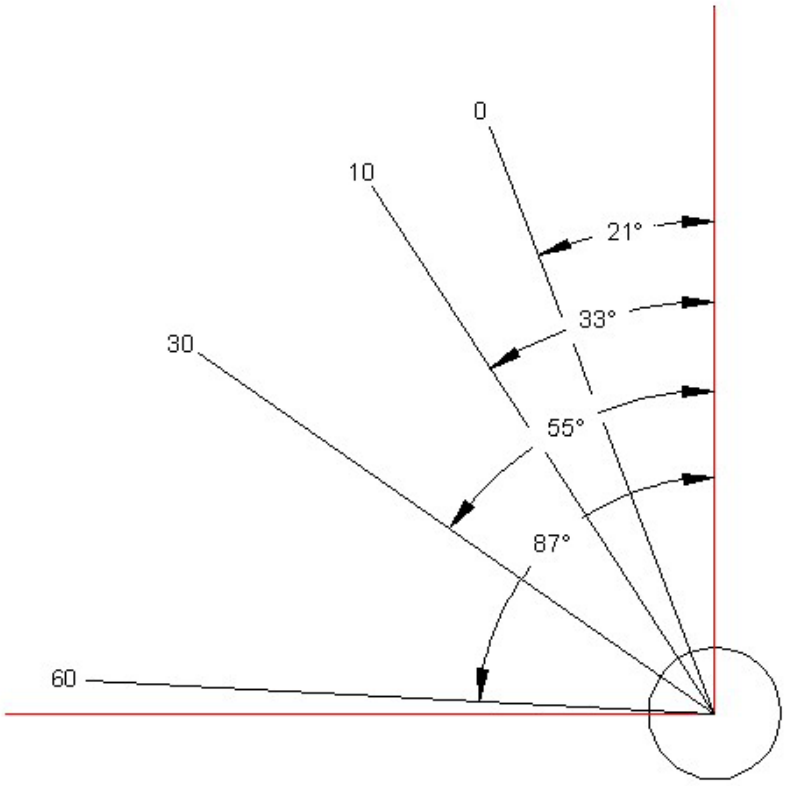


**Now this is important.** Once in the window shown on the previous page, turn the KHR-2HV off, then on again. You will see the green LED go off on the RCB-3J when you shut down, then a red LED appears when you power up. This tells the you that the RCB-3J will be using the ICS interface. The red LED will go off after a couple of seconds, then the green LED will come back on. Now you can double click one of the servos (as shown above) to bring up the servo settings sub-window shown below.




Now you can perform your edits. I have only edited the buttom two Left and Right limit sliders. I would suggest that you first edit channel number 1 (head) as you cannot hurt anything. **Mess around with the other parameters at your own risk!!!** Once your edits are complete, exit out of these windows, then power off the KHR-2HV, then turn on again. You are ready to test the servo in the POS window. Go at it slow, these servos can strip gears if the servo exceeds the mechanical limits.

I performed some angular measurements on channel 1 (Head servo) while setting limits on one side using values 0, 10, 30 & 60. Results are shown below:




So using a value of 0 for both Left and Right limits results in approx. 42 degrees of movement. Your mileage may vary.

If you have any edits or would like to add anything, please PM me at the Robosavvy site (RRDIAZ30).

Regards…Rick Diaz



Document version 1.1 07/09/2006