# Kyosho Caliber 30 radio setup and programing for Futaba 7CHP radio

# Chair 2 program (revo mixing, collective/throttle mixing)

start with new H-1, PCM type, set model name CHAIR2
disable hover throttle trim, hover throttle VR, pitch trim, hover pitch VR,
connect servos roll-1, pitch-2, collective-3, pedals-4 (NO GYRO YET), throttle-6
provide neutral signal to all servos and rig arms 90deg to pushrods
reverse 1,3,6
adjust subtrims all 1,2,3,4,6
    must have collective at neutral (use endpoint screen to see neutral point)
    set neutral position with endpoint screen, then adjust subtrim
now install gyro - adjust gain and center at same time keeping arm at 90degrees
set endpoints: pedal 100%, cyclic 80%
    rig collective down limit with bar tangent at upper surface to index mark (1/2 dia below center)
        grab the bar and wiggle to relieve sticktion
    rig collective up so collars on mast meet
    collective is approximately 45 down and 100 up with 3151 servo
    rig throttle full each way (collective at limits puts throttle at limits) with a little extra
        adjust down limit to 15% shorter than full idle
        THIS IS THE IDLE speed setting to be adjusted on first flight
program throttle TH curve 100, 80, 60, 30, 0
    THIS IS ROTOR RPM setting to be adjusted on first flight
program PMIX1, this is the ENGINE CUT
    master=offset, slave=channel6, switch is H.down, rate +20%
    switch H down is engine cutoff
program REVO
    hi=-10, lo=-10
    switch A.up
    switch A up is revo mixing on
program exponentials (see radio worksheet)
set all failsafes to NORMAL except 6, program this to go to idle
    test failsafe
these numbers are for 3004 throttle servos and pedal servos, 3151 for cyclic servos

# Box 1 program is exact copy of chair 2

# Chair 1 program (no revo mixing, collective/throttle mixing)

start with new ACRO, PCM, ch5 and ch7 OFF
reverse 1 and 3
subtrim 1,2,3,4,6
endpoints set the same way as for chair 2 program
program exponentials (see radio worksheet)
program offset throttle cut
set failsafe same as chair 2
    test failsafe