

CCPM SOFTWARE INITIAL ADJUSTMENTS

RADIO SYSTEM REQUIREMENTS (NOT INCLUDED)

6-channel or greater RC helicopter system with 120° or 140° CCPM function



JR 12X



JR X9303 2.4



SPEKTRUM DX7



SPEKTRUM DX6i

CCPM-Ready JR Radio Systems

Most current JR and Spektrum heli radio systems (12X, X9303 2.4, XP9303, DX7, DX6i, as well as older 10 series systems) are equipped with 120° and/or 140° CCPM electronics for use with JR CCPM machines. Radios you may be flying now, like the X347, X388S, XP783, and XP8103, have 120° CCPM capability built in but require activation by the Horizon Service Department. Please call 877-504-0233 for details.

**Please note that many XP8103 systems have the CCPM function already activated. Please check with the Horizon Service Center for details.*

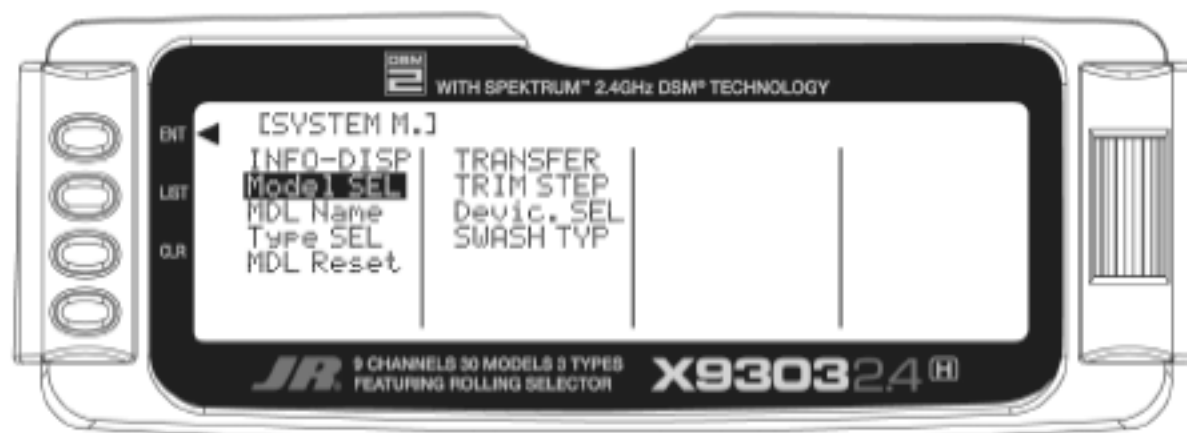
JR X9303 2.4 AND XP9303: PROGRAMMING

The following activation and setup procedure should be used for the JR 9303 systems. Prior to activating the CCPM function, it is first suggested that the data reset function be performed to reset the desired model number to be used back to the factory default settings.

Caution: Prior to performing the data reset function, it will be necessary to select the desired model number to be used.

A) Model Select/Data Reset

Press the ENT key while turning the power switch on to enter the system mode. Next, move the cursor to the MODEL SEL function. Press the roll selector to enter the model select function. Select the desired model number to be used, then press the roll selector. Next, move the roll selector to highlight LST, and press the roll selector. Move the roll selector to highlight MDL RESET, then press the roll selector. Press the CLEAR key, then press YES to reset the data of the current model selected.



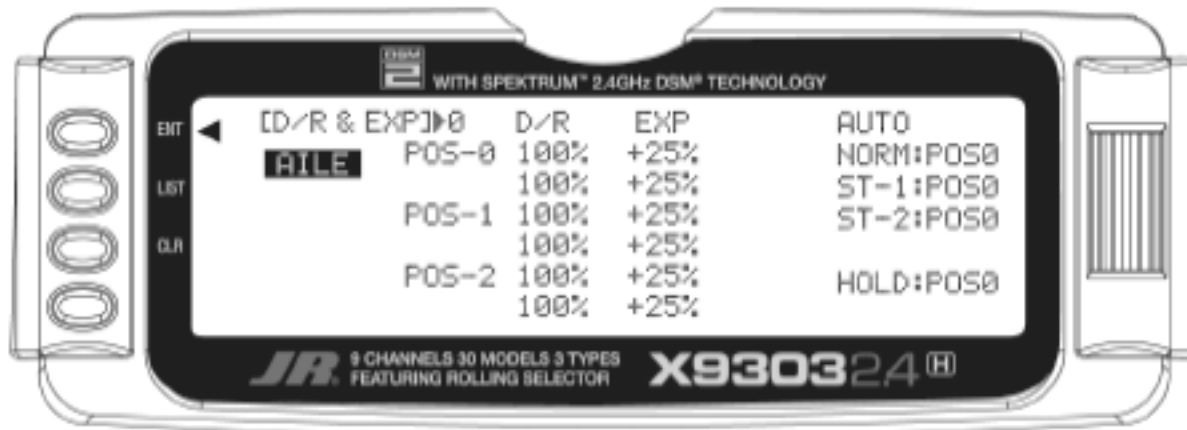
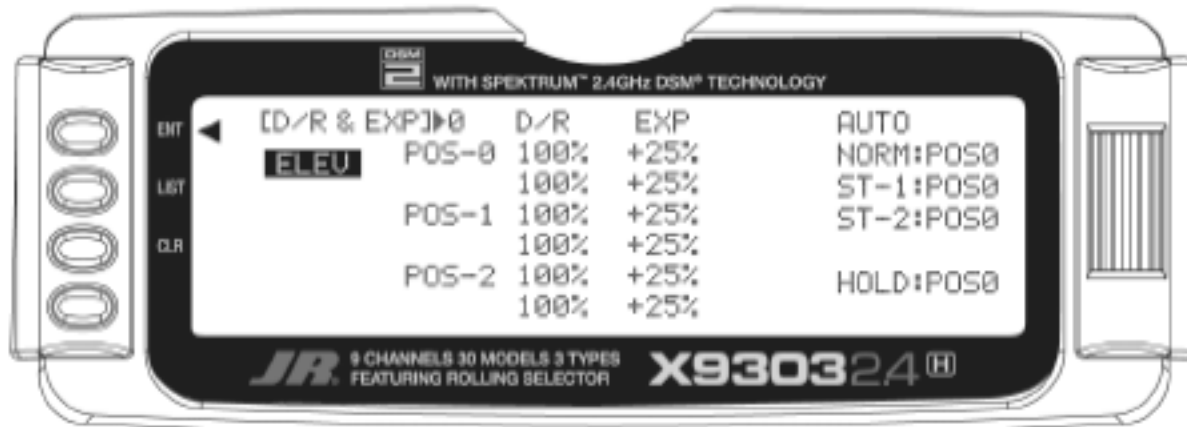
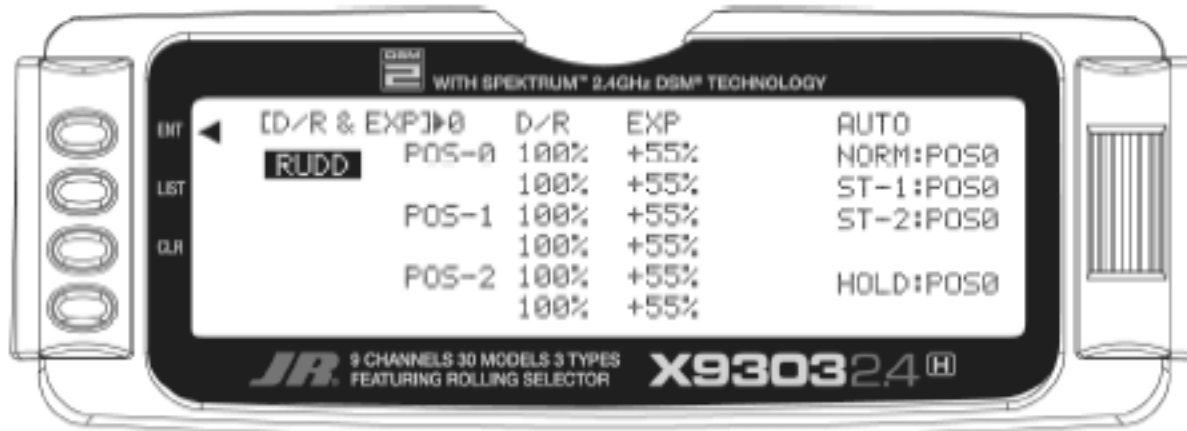
B) CCPM Activation

Move the roll selector to highlight the SWASH TYP function, then press the roll selector to access the swashplate type function. Press the roll selector to access the variations of CCPM mixing, then move the roll selector to select the desired CCPM type (120 or 140). Move the roll selector to highlight LST and press the roll selector to exit the system mode.



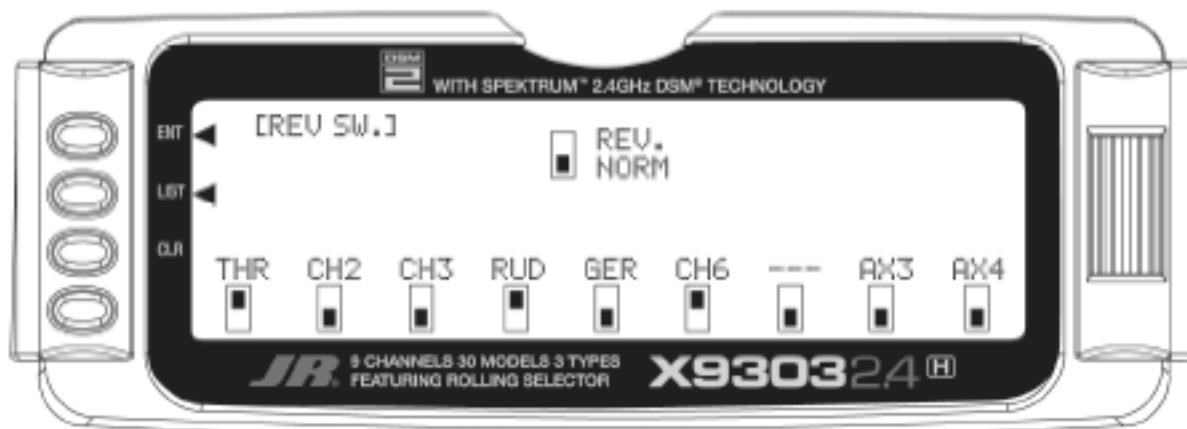
C) D/R and EXPO Selection

Turn the power switch on, then press the ENT key to enter the function mode. Move the roll selector to highlight the D/R and EXPO function, then press the roll selector to enter the function. Set the Dual Rate and Expo values as desired, below are suggested settings. Press the LST key to return to the menu.



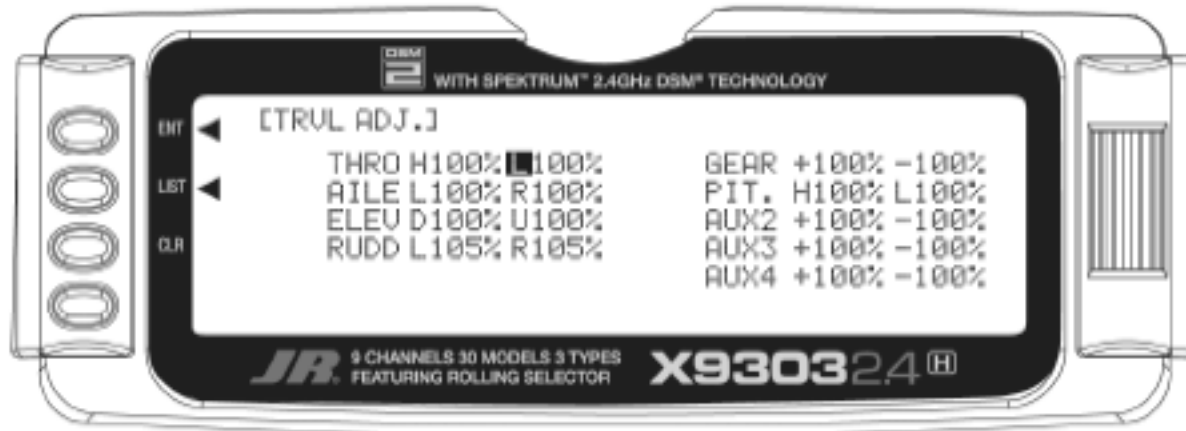
D) Servo Reversing

Move the roll selector and highlight REV.SW on the screen, then press the roll selector to enter the function. Next, reverse channels 1, 4, and 6 by moving the Roll selector, and pressing as needed to change from NORM to REV. Press the LST key to return to the menu.



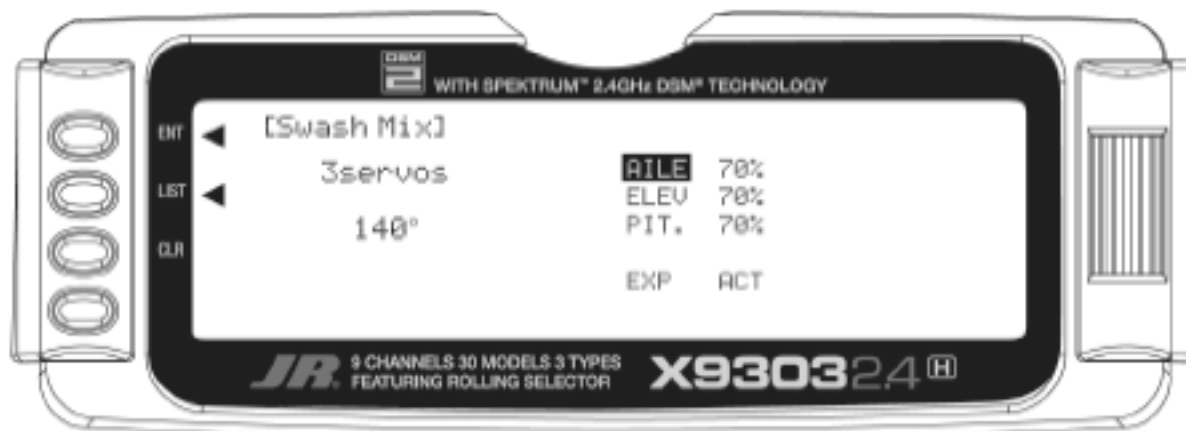
E) Travel Adjustment

Move the roll selector until TRVL.ADJ is highlighted on the screen, then press the roll selector to enter the function. Adjust the values as shown by moving the roll selector to highlight the desired channel, while using the control stick to select up/down, or left/right values to be adjusted. Please note that the required travel values will vary based on the type of servo selected. Press the LST key to return to the menu.



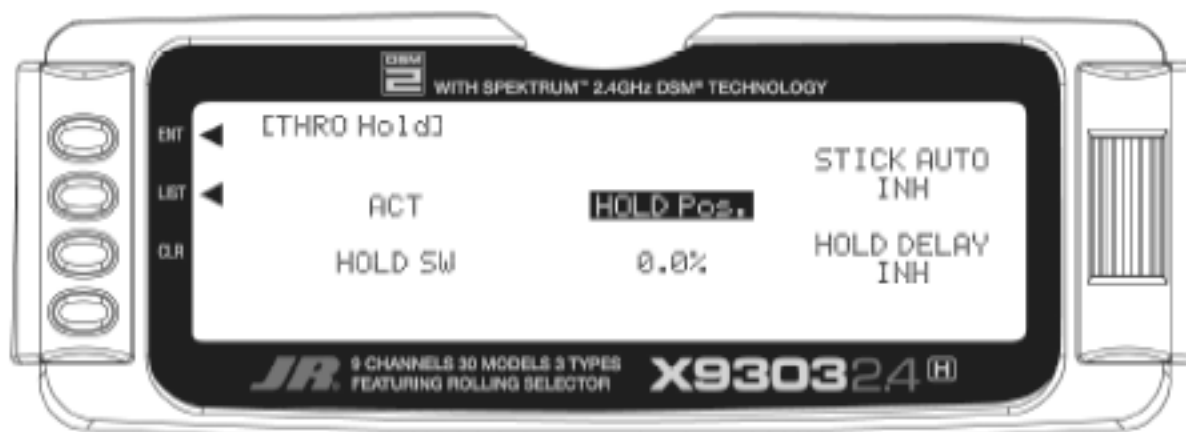
F) CCPM Settings

Move the roll selector to highlight the SWASH MIX function, then press the roll selector to enter the function. Set the value of the aileron, elevator, and pitch functions from the factory default setting using the + and - keys. Press the LST key to return to the menu.



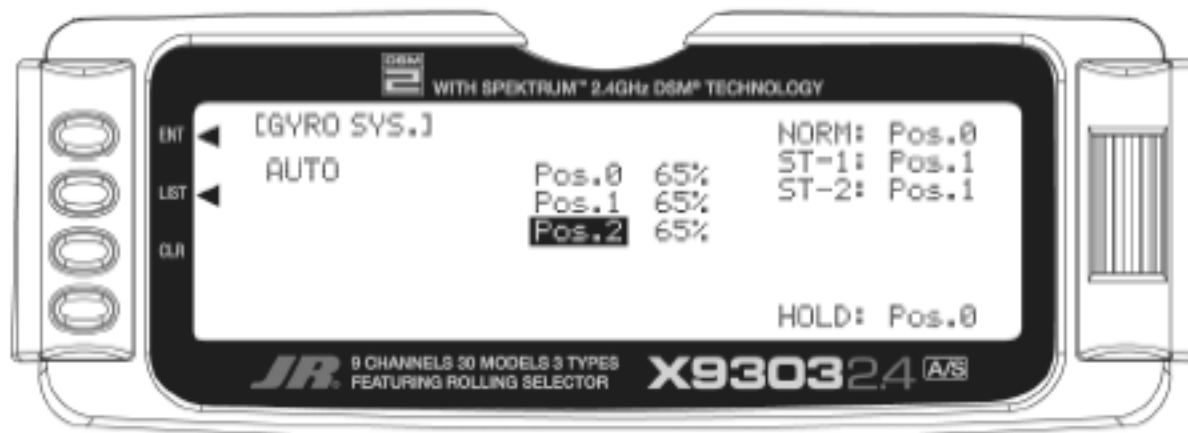
G) Throttle Hold Setting

Move the roll selector to highlight the THRO HOLD function, then press the roll selector to enter the function. Activate the throttle hold function. Once the throttle linkage is set up, set the hold position in this function so that when the throttle hold switch is pulled, the throttle servo does not move with the throttle stick at idle and throttle trim set at the idle position. Press the LST key to return to the menu.



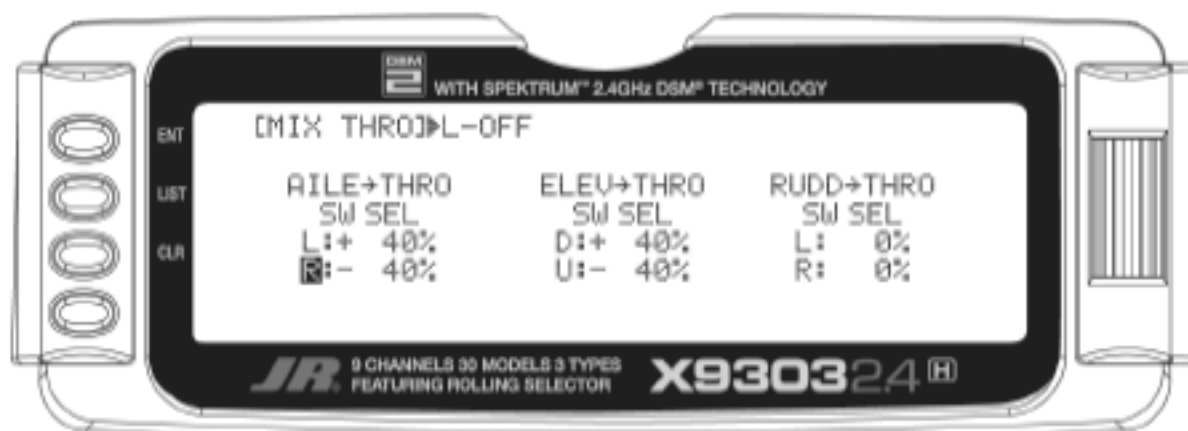
H) Gyro Sensitivity Selection

Move the roll selector to highlight the GYRO function, then press the roll selector to enter the function. Set the gyro gain as shown as a starting point for the G770 3D gyro. Adjust the percentage as necessary when flying the heli. Other gyros may require different settings, consult your gyro manual for further information on setting the gain. Press the LST key to return to the menu.



I) Mix to Throttle

Move the roll selector to highlight the MIX -> THRO function, then press the roll selector to enter the function. Set the Aileron to Throttle and Elevator to Throttle mixing as shown. This function is used to prevent the head speed from sagging during aerobatics. Adjust these values as needed in flight. This function is not required if using a governor. Press the LST key to return to the menu.



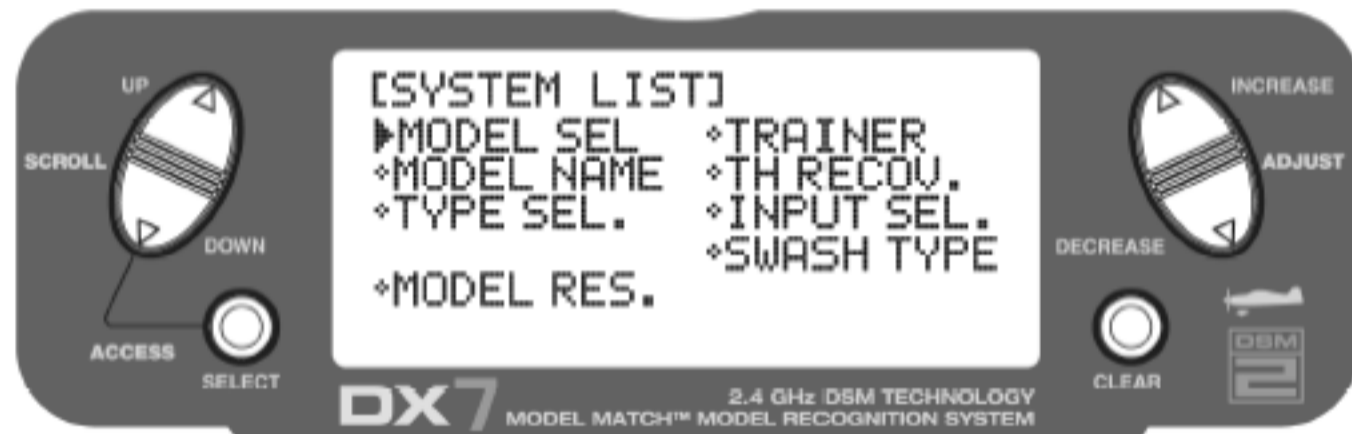
JR 7202 AND SPEKTRUM DX7: PROGRAMMING

The following activation and setup procedure should be used for the JR 7202 and Spektrum DX7 systems. Prior to activating the CCPM function, it is first suggested that the data reset function be performed to reset the desired model number to be used back to the factory default settings.

Caution: Prior to performing the data reset function, it will be necessary to select the desired model number to be used.

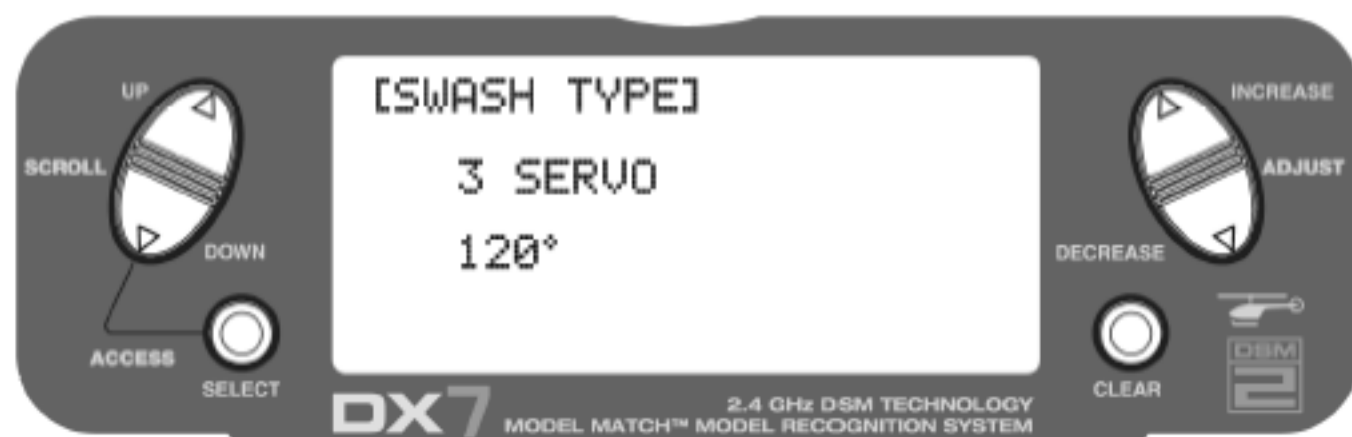
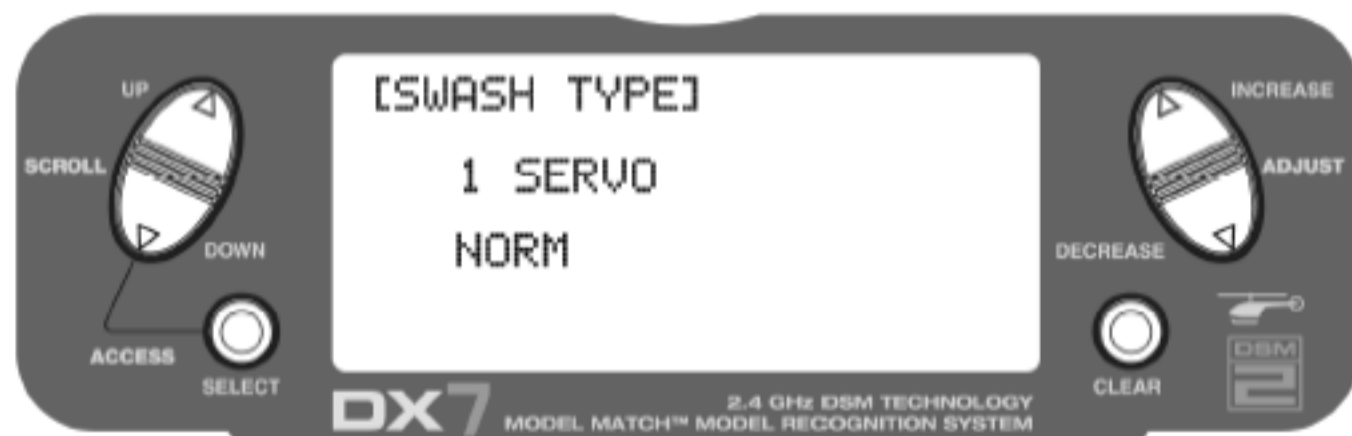
A) Model Select/Data Reset

Press the Down and Select keys while turning the power switch on to enter the system mode. Next, move the cursor to the MODEL SEL function with the UP key. Select the desired model number to be used with the increase or decrease key. Next, press the UP key until MODEL RESET is displayed. Press the CLEAR key, then press YES to reset the data of the current model selected.



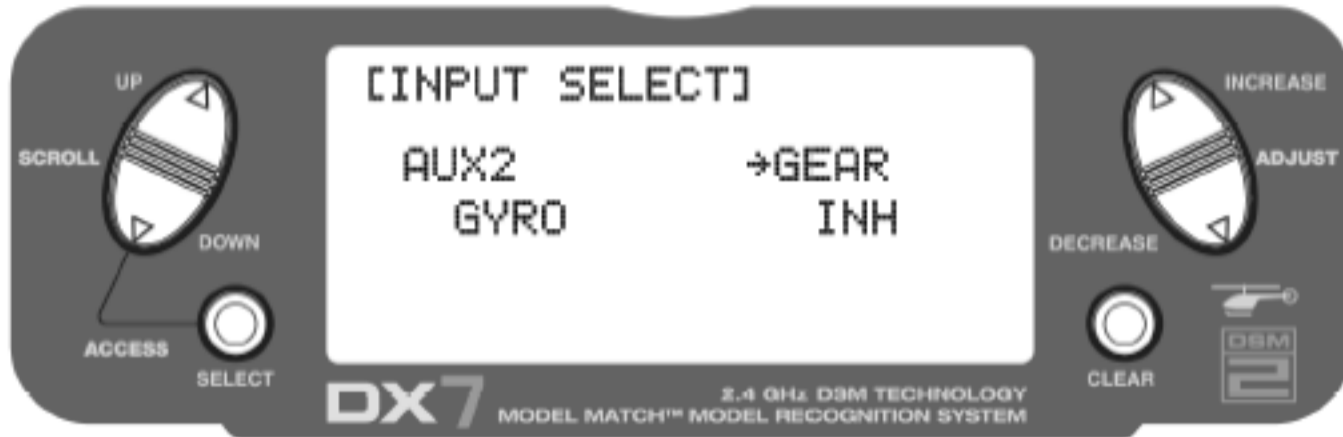
B) CCPM Activation

Press the UP key until the SWASH TYPE function is displayed, then press the INCREASE key to select the desired 120 CCPM type as shown.



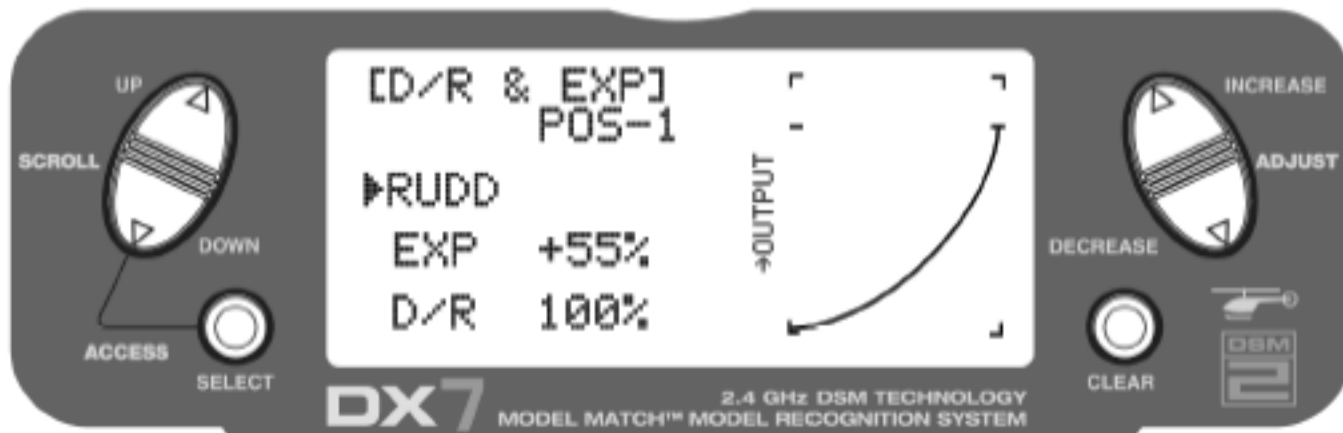
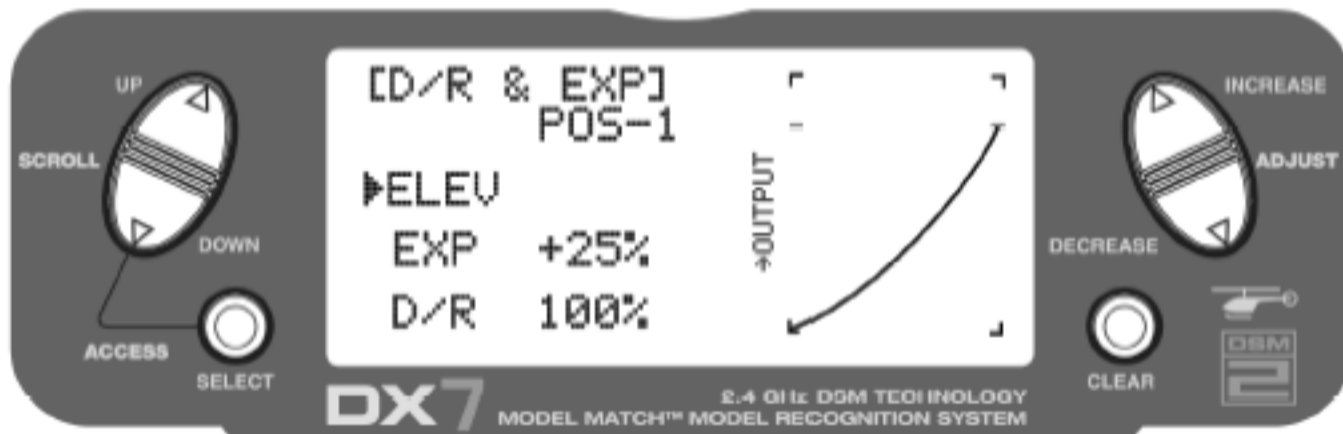
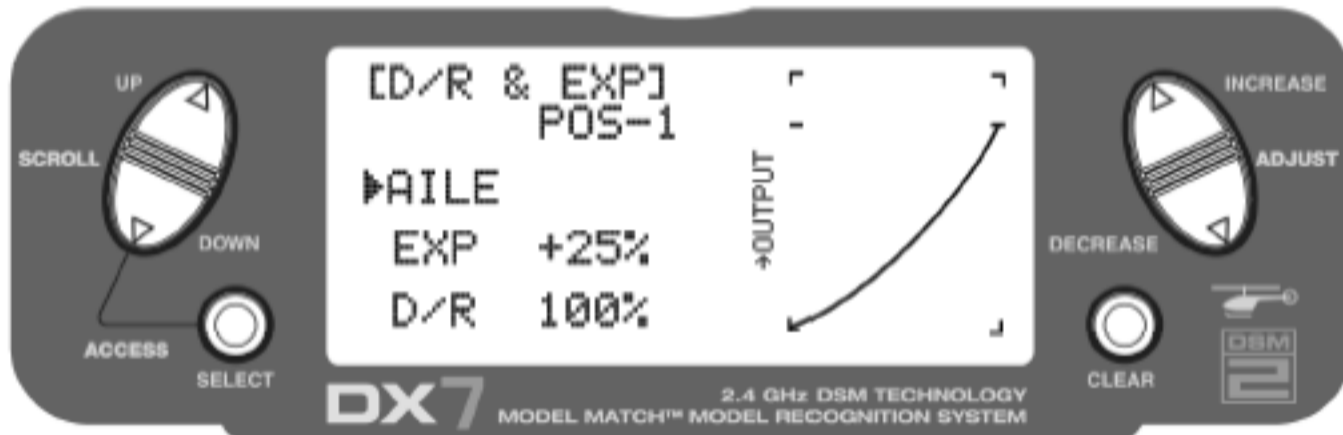
C) Input Select function

Press the DOWN key until the INPUT SELECT function is displayed, then set AUX 2 to GYRO and GEAR to INH. (If channel 7 is not available for the GYRO function, select GYRO under gear and select INH under AUX 2.) Press the down and select keys together to exit the system menu.



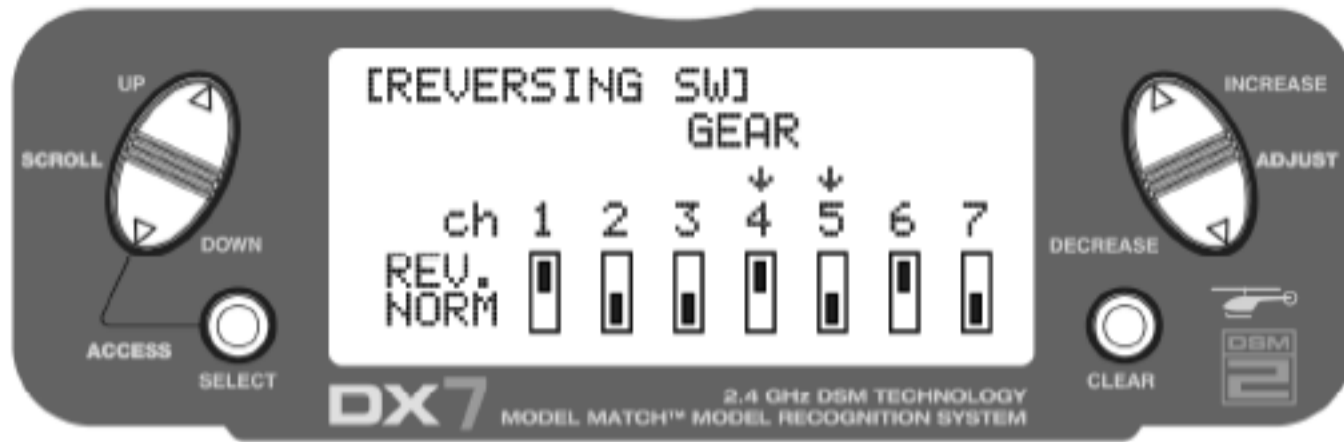
D) D/R and EXPO Selection

Turn the power switch on, then press the DOWN and SELECT keys together to enter the function mode. Press the UP key to select the D/R and EXPO function. Set the Dual Rate and Expo values as desired, below are suggested settings.



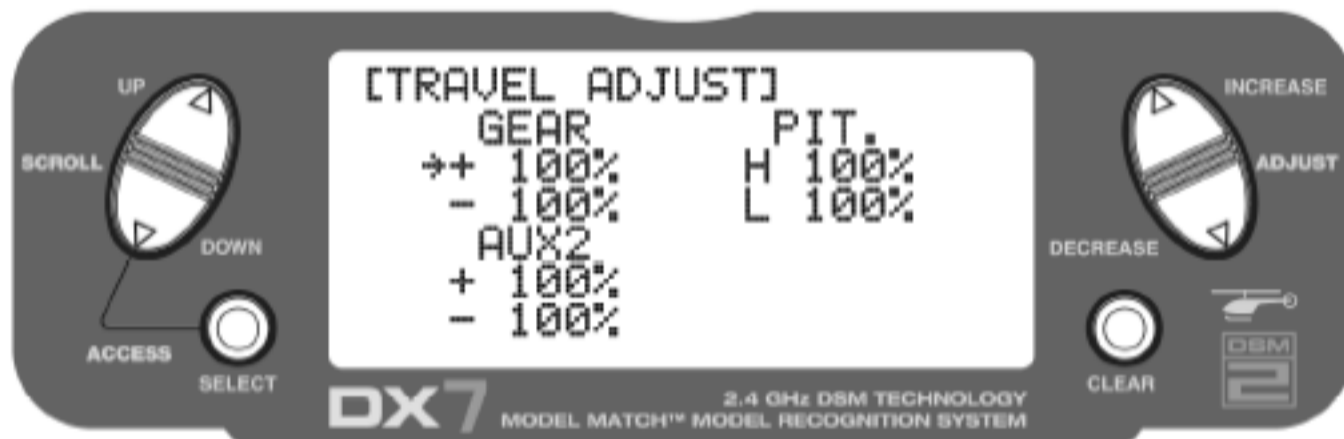
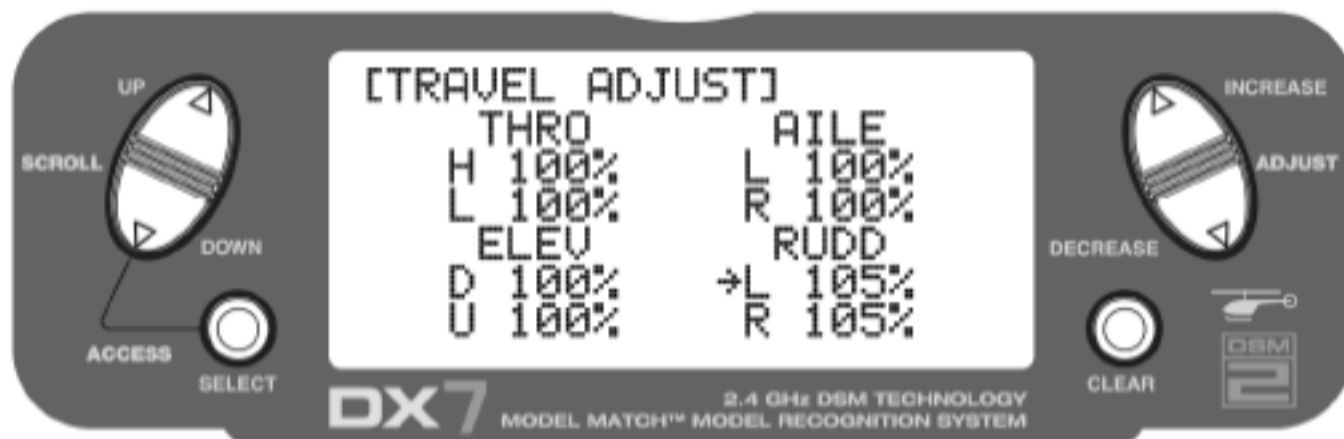
E) Servo Reversing

Press the UP key to select the REVERSING function. Next, reverse channels 1, 4, and 6 by selecting the channel with the SELECT key, and pressing the INCREASE key as needed to change from NORM to REV.



F) Travel Adjustment

Press the UP key to select the TRAVEL ADJUST function. Set the Travel Adjust values as shown as initial settings, while using the control stick to select up/down, or left/right values to be adjusted. Please note that the required travel values will vary based on the type of servo selected.



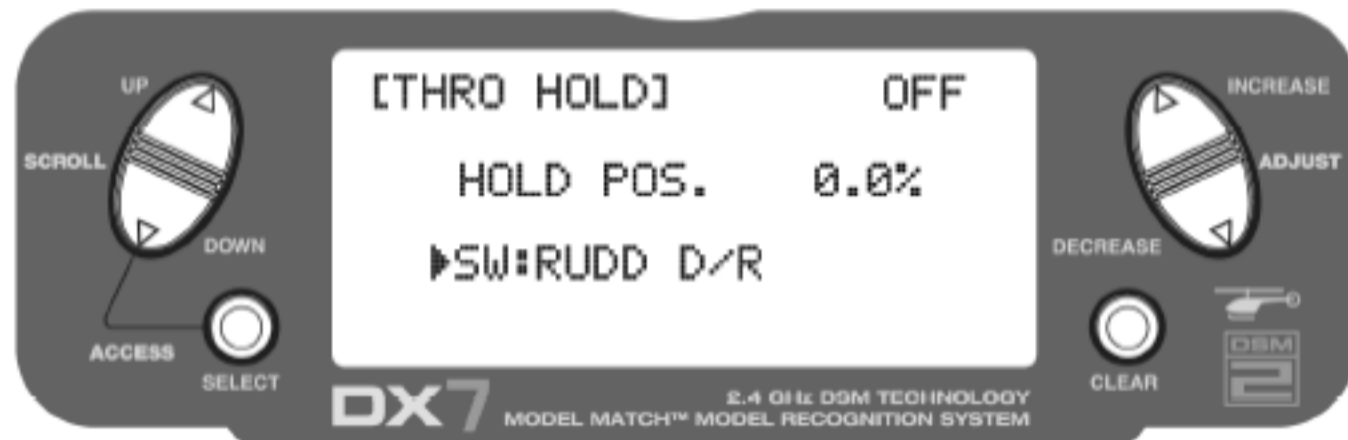
G) CCPM Settings

Press the UP key to select the SWASH MIX function. Change the value of the aileron, elevator, and pitch functions from the factory default setting using the INCREASE key and selecting the channel with the select key to the values as shown.



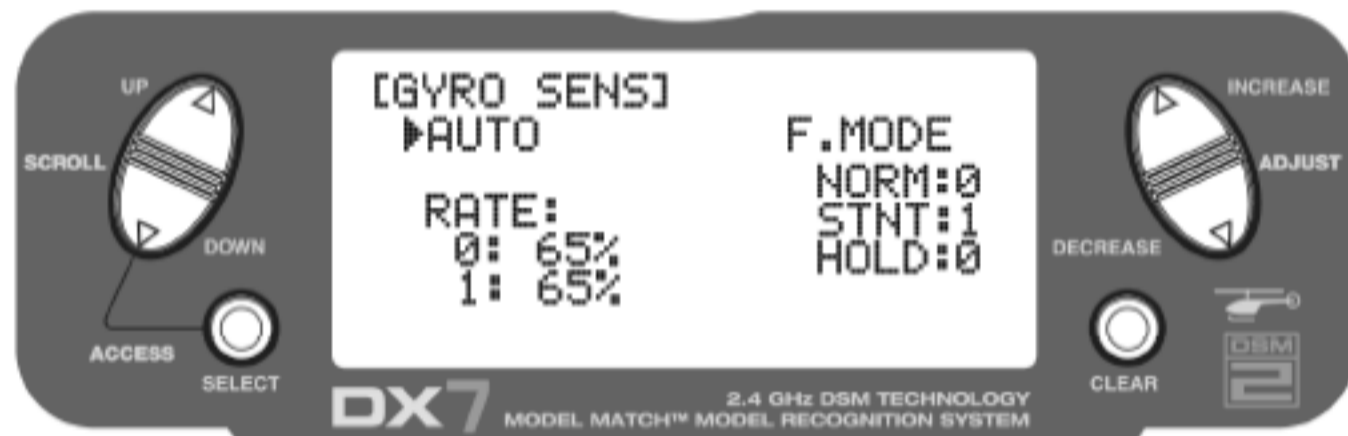
H) Throttle Hold Setting

Press the UP key to select the THRO HOLD function. Press the INCREASE key to activate the function. Once the throttle linkage is set up, set the hold position in this function so that when the throttle hold switch is pulled, the throttle servo does not move with the throttle stick at idle and throttle trim set at the idle position.



I) Gyro Sensitivity Selection

Press the UP key to select the GYRO SENS function. Set the gyro gain as shown as a starting point for the G770 3D gyro. Adjust the percentage as necessary when flying the heli. Other gyros may require different settings, consult your gyro manual for further information on setting the gain.



SPEKTRUM DX6i SYSTEMS: PROGRAMMING

The following activation and setup procedure should be used for the Spektrum DX6i systems. Prior to activating the CCPM function, it is first suggested that the data reset function be performed to reset the desired model number to be used back to the factory default settings.

Caution: *Prior to performing the data reset function, it will be necessary to select the desired model number to be used.*

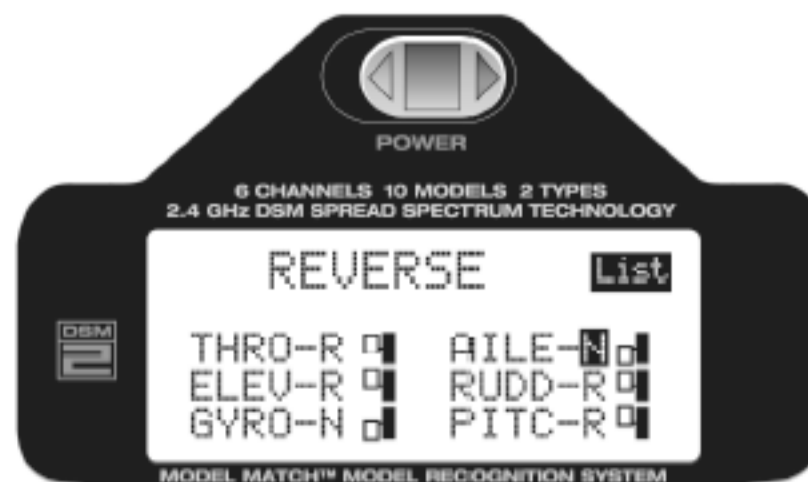
A) Model Select/Data Reset

Turn the power switch on then press the roll selector to enter the Adjust List. Next, move the cursor to the MODEL SEL function. Press the roll selector to enter the model select function. Select the desired model number to be used, then press the roll selector. Move the roll selector to highlight SET UP LIST and press the roll selector. Then move the roll selector to highlight COPY / RESET, then press the roll selector. Move the roll selector to highlight RESET, press the roll selector, then press YES to reset the data of the current model selected.



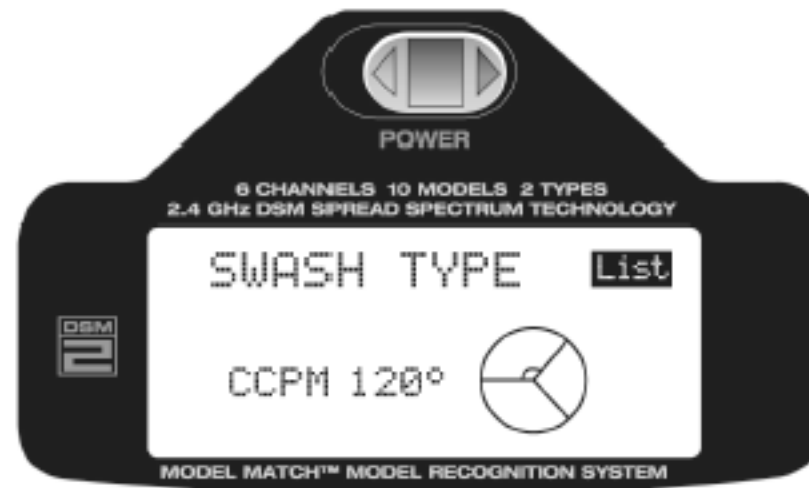
B) Servo Reversing

Move the roll selector and highlight REVERSE on the screen, then press the roll selector. Next, reverse channels 1, 3, 4, and 6 by moving the Roll selector to highlight each channel, pressing the roll selector, then moving the roll selector to change to R from N as needed. After making each selection, press the roll selector to confirm the change, then proceed to the next channel. Move the roll selector to highlight LIST and press the roll selector to exit the function.



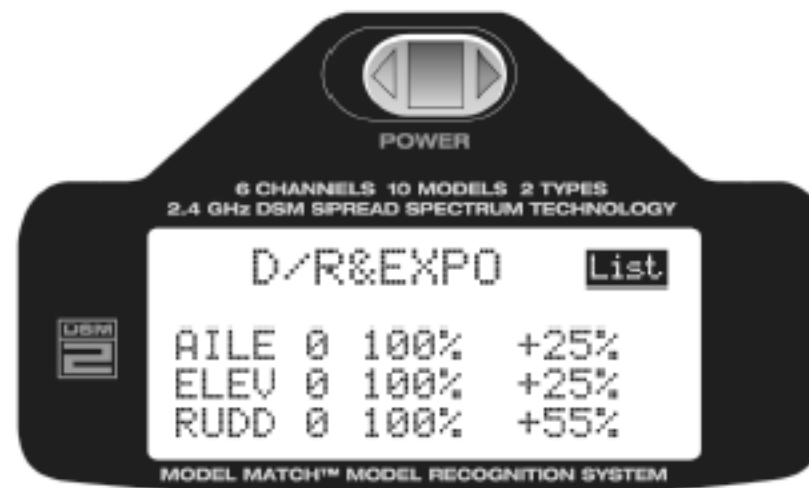
C) CCPM Activation

Move the roll selector to highlight the SWASH TYPE function, then press the roll selector to access the swashplate type function. Move the roll selector to highlight the CCPM type, then press the roll selector to access the variations of CCPM mixing, then move the roll selector to select the 120 CCPM type. Move the roll selector to highlight LIST and press the roll selector to exit the function. Next move the roll selector to highlight ADJUST LIST and press the roll selector to access that menu. Move the roll selector to highlight LIST and press the roll selector to exit the function.



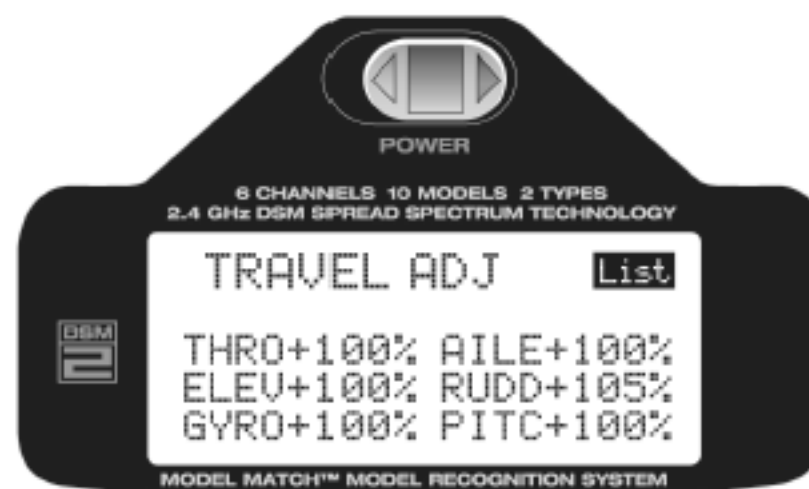
D) D/R and EXPO Selection

Move the roll selector to highlight the D/R&EXPO function and then press the roll selector to enter the function. Set the Dual Rate and Expo values as desired, below are suggested settings. Move the roll selector to highlight LIST and press the roll selector to exit the function.



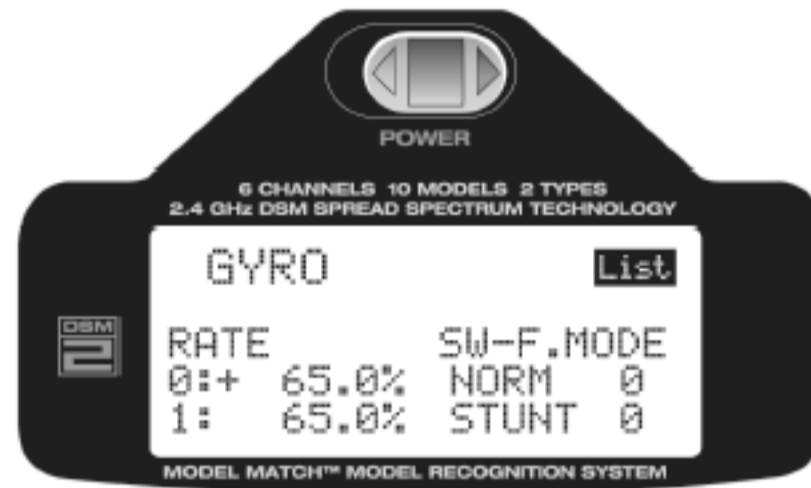
E) Travel Adjustment

Move the roll selector until TRAVEL ADJ is highlighted on the screen, then press it to enter the function. Adjust the values as shown by moving the roll selector to highlight the desired channel, while using the control stick to select up/down, or left/right values to be adjusted. Please note that the required travel values will vary based on the type of servo selected. Move the roll selector to highlight LIST and press the roll selector to exit the function.



F) Gyro Sensitivity Selection

Move the roll selector to highlight the GYRO function, then press the roll selector to enter the function. Set the gyro gain as shown as a starting point for the G770 3D gyro. Adjust the percentage as necessary when flying the heli. Other gyros may require different settings, consult your gyro manual for further information on setting the gain. Move the roll selector to highlight LIST and press the roll selector to exit the function.



G) CCPM Settings

Move the roll selector to highlight the SWASH MIX function, then press the roll selector. Set the value of the aileron, elevator, and pitch functions from the factory default setting using the + and - keys. Move the roll selector to highlight LIST and press the roll selector to exit the function.

