



RADIO SETUP INFORMATION

**JR CCPM
140°**

XG8 
DMSS
DUAL MODULATION
SPECTRUM SYSTEM



Please note:

This manual only describes CCPM settings to be used in conjunction with the JR NEX6 and TAGS01.

Other helicopter settings or adjustments are not described in this manual.

In this manual we describe settings specifically for the JR XG8. If you are using a different make or model of radio, please refer to your radio instruction manual in combination with this manual.

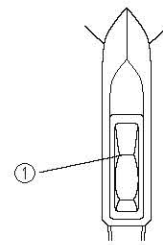
Do not turn on the helicopter until these radio settings are completed. Even then, ensure the motor is unplugged from the ESC when completing the radio and TAGS01 setup.

JR-CCPM plays a critical role in coordinating the simultaneous activating of multiple servos to control the swashplate. Activation of just a single servo would not lead to control of the swashplate - the three swashplate servos must be controlled in a coordinated fashion. The setup of these servos differs from that for other control functions which control just one servo (for example, the Rudder). The JR TAGS01 flybarless gyro unit then acts to further stabilize the helicopter.

The initial settings given here must be confirmed on the bench, and then fine tuned after test flying the helicopter. Prior to commencing this process, confirm all the trim levers and trim knobs on the transmitter are in their neutral (zero) positions. Also shift all switches to position '0' (switches moved away from the operator).

JR PROPO®

1. Initial Radio Setup



① Turn on the power switch and press the **[LST]** key located on the lower of the transmitter. **[FUNCTION LIST 1/3]** screen displayed.



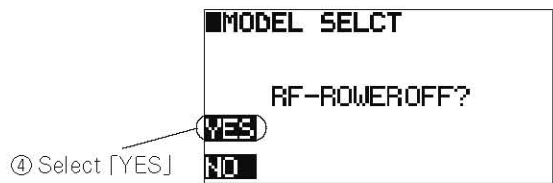
② Press the **[FNC]** key twice to display **[FUNCTION LIST 3/3]** and then turn the dial to select **[SYS. LIST]** and press.



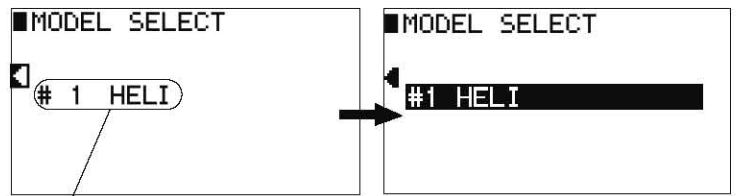
③ **[SYSTEM LIST 1/2]** screen displayed. Turn the dial to select **[MODEL SEL.]** and press.



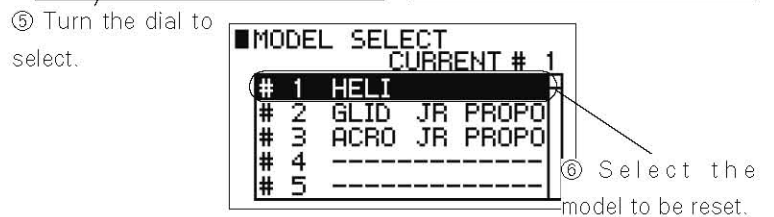
④ **[RF-POWER OFF?]** is displayed. Press the **[CLR]** key to select **[YES]**.



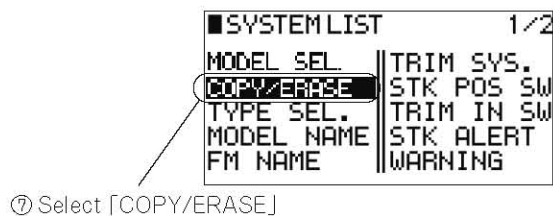
⑤ Current model No. is displayed. Turn the dial to select this area and press.



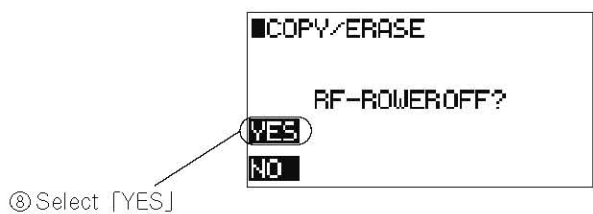
⑥ Turn the dial to select the model No. which can be reset and press.



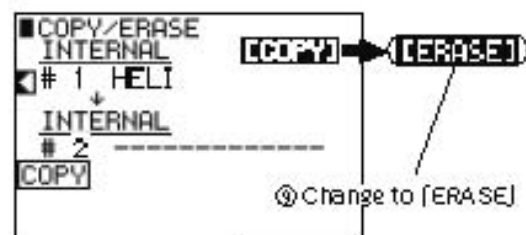
⑦ Use the **[LST]** key to return to **[SYSTEM LIST]**. Turn the dial to select **[COPY/ERASE]** and press.



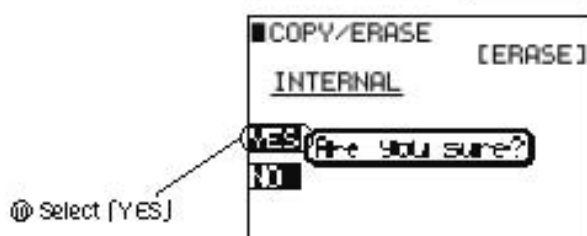
⑧ **[RF-POWER OFF?]** is displayed. Press the **[CLR]** key to select **[YES]**.



⑨ Turn the dial to select [COPY] and press to change it to [ERASE] then press the [FNC] key.



⑩ [Are you sure?] is displayed. Press the [CLR] key to select [YES].

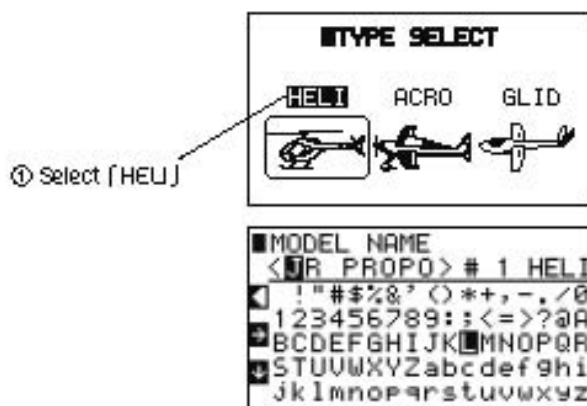


2. Navigating the Parameter Setup Menus

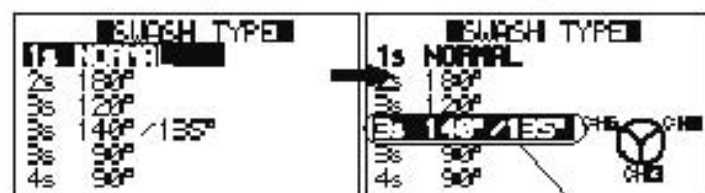
The figure on the right is displayed automatically when you initialized your radio or input a new model or change the model type.

① Turn the dial to select [HELI] and press to set.

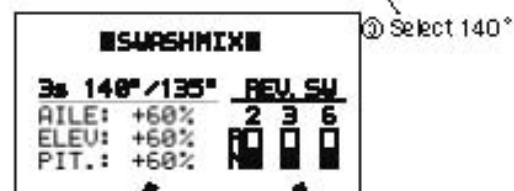
② [MODEL NAME] is displayed - input the model name. (You can skip this by pressing the [ENT] key)



③ Turn the dial to select 140° CCPM and press.



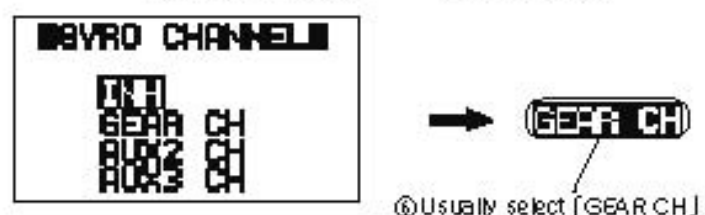
④ Confirm the screen shows mixing and reverse options for the Swash type you selected. Then turn the dial to select the swash mix item you wish to change and press to input the value.



⑤ Turn the dial to select the reverse switch you wish to change and press to reverse. After you are finished, press the [ENT] key.



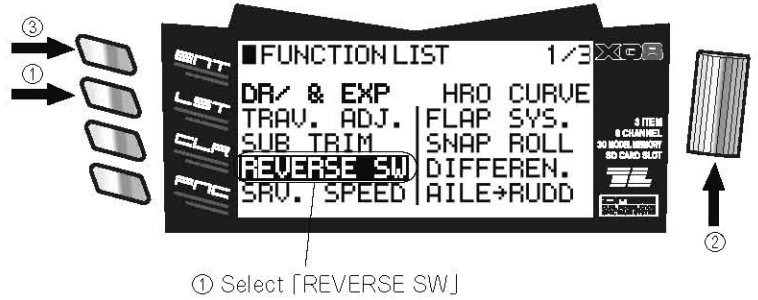
⑥ [GYRO CHANNEL] - select the channel you wish to use for gyro sensitivity and press the dial. (Usually select [GEAR CH])



⑦ Press the [LIST] key twice to return to the regular screen.

3. Setting Servo Directions

- ① Press the **[LST]** key to display [FUNCION LIST 1/3].
Turn the dial to display [REVERSE SW] and press.



- ② Turn the dial to reverse [4 (RUDD)].
※ Note that channels 3 and 6 should have been already set to reverse on the previous page.



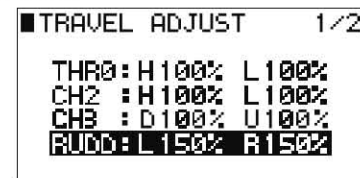
- ③ Press the **[ENT]** key to return to the regular screen.

4. Setting the TRAVEL ADJ. Values

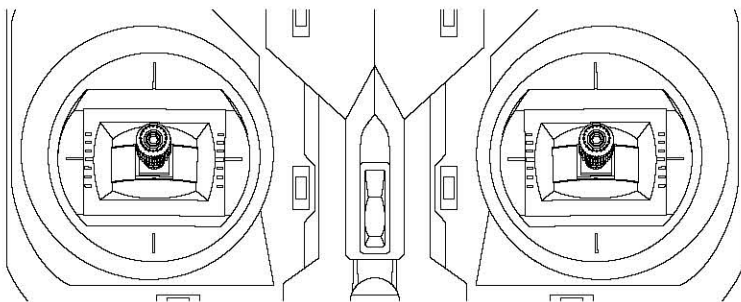
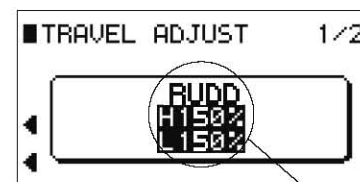
- ① Press the **[LST]** key to display [FUNCTION LIST].
Turn the dial to select [TRAV. ADJ.] and press.



- ② Turn the dial to select each item and press.

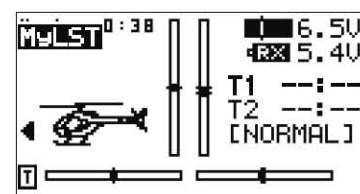


- ③ Turn the dial to input the number shown in the figure.



※ Use the appropriate control stick to switch between H/L, U/D or L/R.

- ④ Press the **[ENT]** key to return to the regular screen.

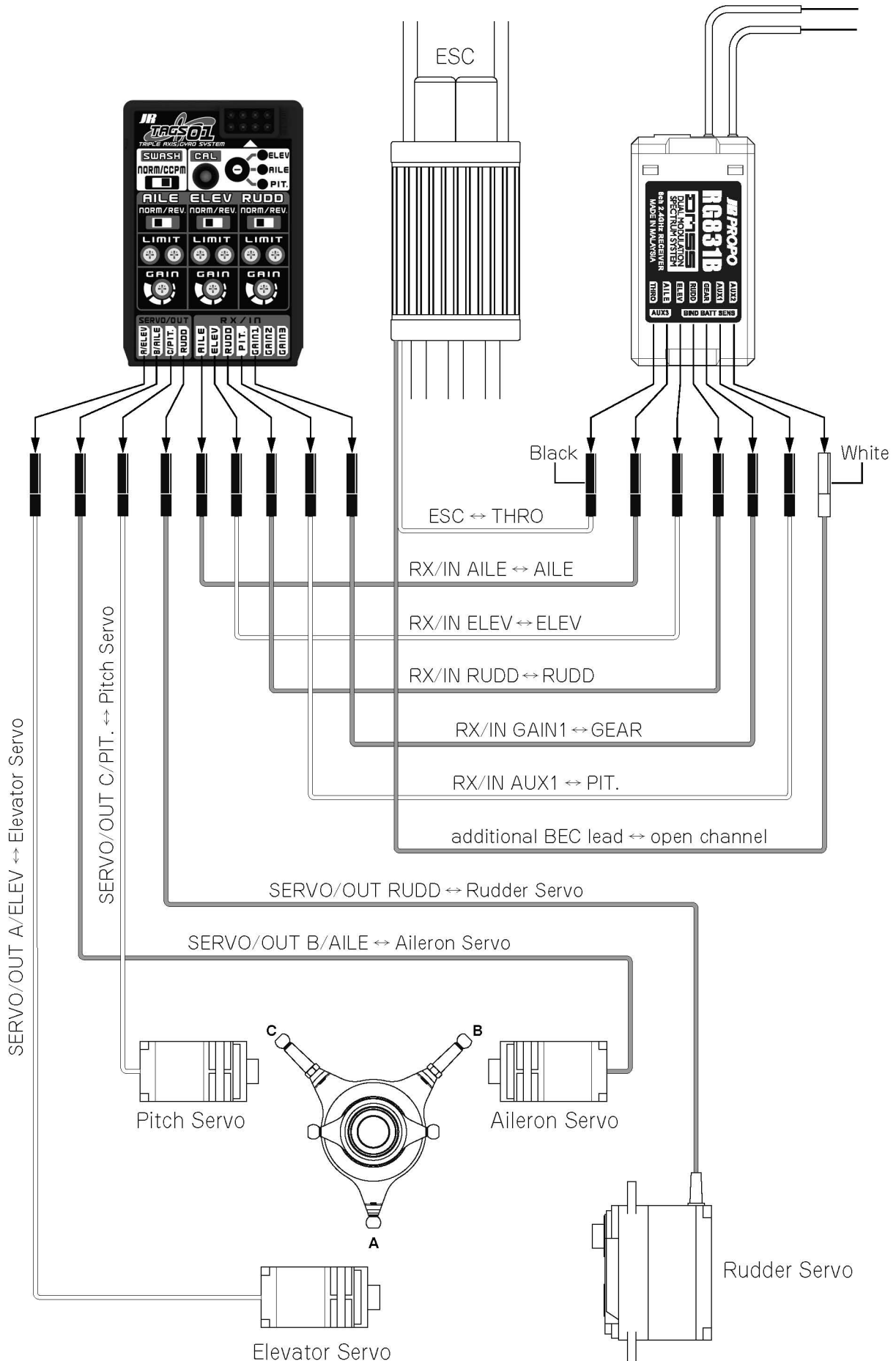


5.Wiring

Confirm connections between the servos, TAGS01, and the receiver as per the figure below.

The color coding of various wire leads in the diagram is simply to allow easy identification of the leads.

When using other makes of Radio set or Gyro, please refer to the instruction manual to confirm correct wiring.



DATA SHEET

Servos and Gyro
 Swash Servo : FBL-DS11
 Rudder Servo : DS3500G
 GYRO : TAGS01

	THRO	AILE	ELEV	RUDD	GEAR	PIT.	AUX2	AUX3
REVERSE SW	REV	REV	REV	REV	REV	REV	REV	REV
	(NORM)	(NORM)	(NORM)	(NORM)	(NORM)	(NORM)	(NORM)	(NORM)
SUB TRIM	0	0	0	0	0	0	0	0
TRAVEL ADJUST	H100% L100%	L100% R100%	D100% U100%	L150% R150%	+100% -100%	H100% L100%	+100% -100%	+100% -100%
FAIL SAFE	ON							

	THRO	AILE	ELEV	RUDD	HOV.PITCH	HOV.THRO
TRIM STEP	2	1	1	1	4	4

Dual-Rate EXP	POS0	D/R	AILE	ELEV	RUDD
			60	60	100
		EXP	60	60	100
			+20	+20	+40
	POS1	D/R	100	100	100
			100	100	100
		EXP	+40	+40	+40
			+40	+40	+40
	POS2	D/R			
		EXP			
	AUTO	NORM	0	0	0
		ST-1	1	1	1
		ST-2	1	1	1
		HOLD	1	1	1

SWASH MIX	TYPE	1S · 2S180° · 3S120° · 3S140° · 3S90° · 4S90°		
	AILE→ELEV	L: %	R: %	
	ELEV→AILE	R: %	U: %	
	SW SELECT	NORM · ST-1 · ST-2 · ST-3 · ST-4 · HOLD		
	GAIN	AILE	+50	%
		ELEV	+50	%
		PITCH	-50	%
	EXP	(NH) ACT		
	ELEV→PIT.CACELLER	INH · ()		
	Gyro SENS	AILE D/R	Channel	(GEAR)
ELEV D/R		TYPE	NORMAL · (TLOCK)	NORMAL · T.LOCK
RUDD D/R		NORM	(N) T 100 %	N · T %
FMOD SW		ST-1(Pos1)	(N) T 100 %	N · T %
		ST-2(Pos2)	(N) T 100 %	N · T %
(AUTO)	HOLD	(N) T 100 %	N · T %	

THRO Curve	NORM	EXP	IN	L	1	2	3	H
		OFF · (ON)	OUT	0	25	50		100
			0	42	51		70	
	ST-1	OFF · (ON)	IN	0				100
			OUT	85				85
	ST-2	OFF · (ON)	IN	0				100
		OUT	85				85	

PITCH Curve	NORM	OFF · (ON)	IN	0	25	50		100
			OUT	28	57	71		97
	ST-1	OFF · (ON)	IN	0	50			100
		OUT	20	56			90	
ST-2	OFF · (ON)	IN	0	50			100	
		OUT	0	50			100	

※ On this helicopter, when the swashplate moves up, the rotor blades give negative pitch. When the swashplate goes down, the rotor blades give positive pitch.

✳ The TAGS01 with this combo kit already has these optimized parameters programmed.

NORMAL

GTUNE Ver. 1.1.8

File(F) Help(H)

Triple Axis Gyro System
Parameter Editor

DISCONNECT

Firmware Ver. 1.0.4

PARAMETER SETUP GAIN MONITOR DEAD BAND FIRMWARE UPDATE SYSTEM RESET

CONTROL PARAMETER

Each parameter is individually adjusted for both flight modes (NORMAL and STUNT). The gain dials on the control unit and gain control on the transmitter further modify these values.

FLIGHT MODE
 NORM STNT

READ WRITE

AILE				ELEV				RUDD				
	STD	CURR			STD	CURR			STD	CURR		
P Gain	10	10	10		P Gain	60	60	60	P Gain	630	550	550
I Gain	1400	1400	1400		I Gain	1500	1500	1500	I Gain	2000	2000	2000
D Gain	200	200	200		D Gain	1500	1500	1500	D Gain	1600	1600	1600
F.F. Gain	32	32	32		F.F. Gain	20	20	20	F.F. Gain	0	0	0
HOLD Gain	12	12	12		HOLD Gain	12	12	12	HOLD Gain	14	14	14
CTRL Gain	125	125	125		CTRL Gain	125	125	125	CTRL Gain	360	360	360
A.C. Gain	0	0	0		A.C. Gain	0	0	0	A.C. Gain	96	96	96
A.C. Rate	4	4	4		A.C. Rate	4	4	4	A.C. Rate	24	24	24

STUNT

GTUNE Ver. 1.1.8

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FLIGHT MODE
 NORM STNT

READ WRITE

AILE				ELEV				RUDD				
	STD	CURR			STD	CURR			STD	CURR		
P Gain	10	10	10		P Gain	60	60	60	P Gain	500	300	300
I Gain	1100	1100	1100		I Gain	1350	1250	1250	I Gain	1200	1000	1000
D Gain	200	200	200		D Gain	1275	1050	1050	D Gain	1000	1000	1000
F.F. Gain	0	0	0		F.F. Gain	0	0	0	F.F. Gain	0	0	0
HOLD Gain	12	12	12		HOLD Gain	14	14	14	HOLD Gain	14	14	14
CTRL Gain	220	220	220		CTRL Gain	240	200	200	CTRL Gain	720	720	720
A.C. Gain	0	0	0		A.C. Gain	0	0	0	A.C. Gain	96	96	96
A.C. Rate	4	4	4		A.C. Rate	4	4	4	A.C. Rate	24	24	24

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Nov. 2011

NEX E6 Radio Setup Information Version 2

The product and the contents of these instructions are subject to change
without notice due to improvement.