

# VIBLE<sup>90</sup><sub>SG</sub> FBL



with



## RADIO SETUP INFORMATION



**DSX11**



**XG8** DSM DUAL MOTOR/PROP SPECTRUM SYSTEM

**JR CCPCM** **140°** **CHOICE** **JR CCPCM** **120°**

# ☆ Transmitter Setup For The JR DSX11

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 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).

Please also be familiar with the instructions for the transmitter. The initial settings can be entered into the transmitter without turning power on to the receiver. Please note that fine adjustment will be needed after test flying the helicopter.

## 1. Initial Radio Setup

① Press (and hold) the **[ENT]** key located on the lower left of the Transmitter, then turn on the power switch.

([SYSTEM LIST], List screen displayed)

② Turn the dial on the right side of the Transmitter to select **[MODEL SELECT]** and press the dial.

\* If your radio is new or if you are selecting a model number which has no data in it, No.11 display will be shown automatically.

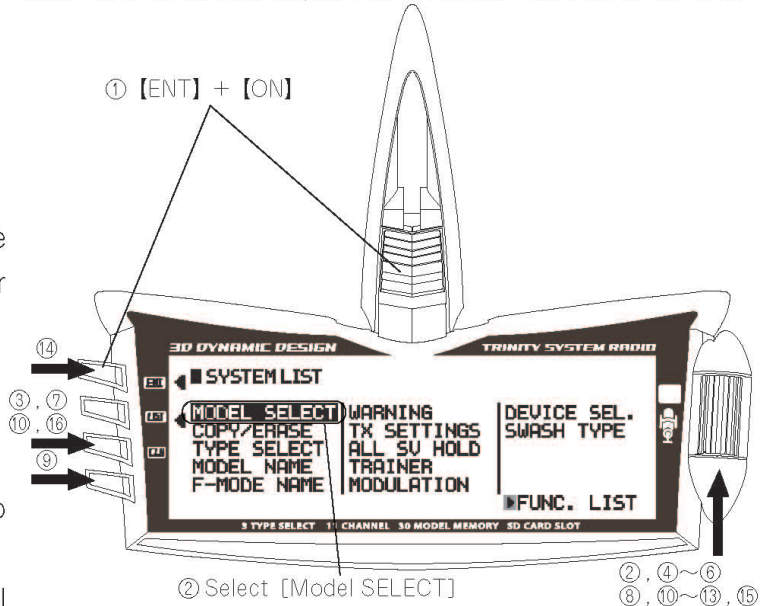
③ Turn the dial to select **[YES]** and press the dial.

④ Turn the dial to select the model number you wish to reset and press the dial again to select it.

⑤ Turn the dial to select the **[LIST]** key to return to **[SYSTEM LIST]** .

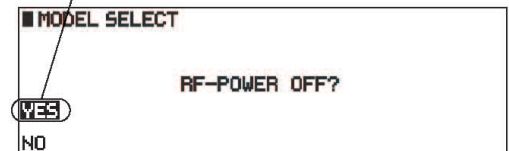
⑥ Turn the dial to select **[COPY/ERASE]** and press the dial.

⑦ Press the **[CLR]** Key.



② Select [Model SELECT]

③ Select [YES]

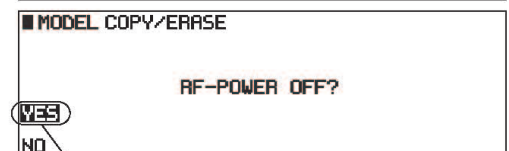
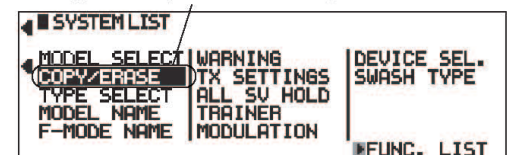


④ Select the model to be reset.

⑤ Select [LST]



⑥ Select [COPY/ERASE]



⑦ Select [YES]

⑧ Confirm the model No. you selected is shown and select [ERASE] and press the dial.

⑨ Press the [FUNCTION] Key.

⑩ Press [CLR] to reset.

⑪ Select [HELI] and press the dial key to input the [MODEL NAME]. After you input the model name, press [LIST] key [OK]. also press [ENT] key [OK].

⑫ Turn the dial to select [3 Servo 120°] or [3 Servo 140°] and press it.

(this choice depends on the hardware configuration of your model)

⑬ the numbers, +/- and REVERSE the direction of each servo as shown in the figure.

⑭ Press the [ENT] Key.

⑮ Turn the dial to select [GEAR] and press.

⑯ Press the [ENT] key to return to the regular screen.

⑧ Select [ERASE]

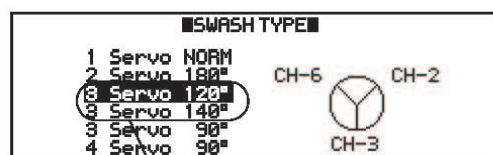
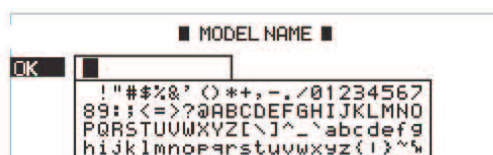


⑨ Select [ERASE]

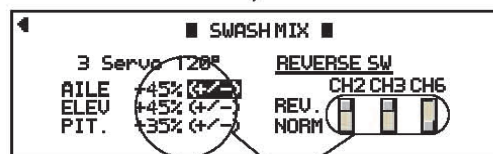
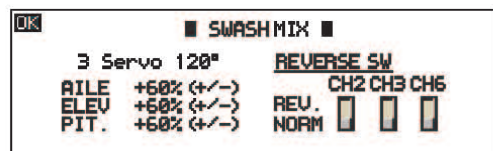


⑩ Select [YES]

⑪ Select [HELI]



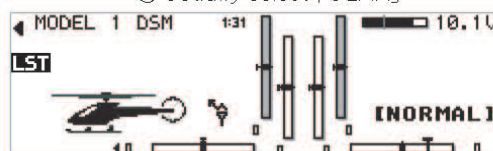
⑫ Select either 120° or 140°



⑬ Input these parameters

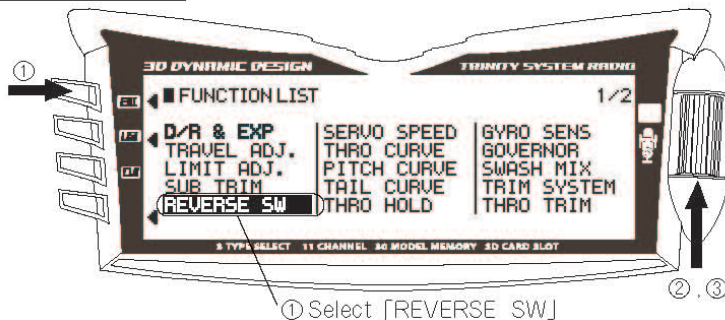


⑮ Usually select [GEAR]



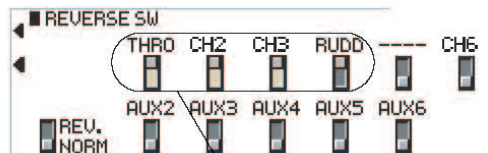
## 2. Setting Throttle Servo Direction (REVERSE SWITCHES)

① Switch over to [FUNCTION LIST] by pressing the [ENT] key, turn the dial and select [REVERSE SW] then press the dial again.



② Turn the dial to reverse switch as shown in the figure on the right.

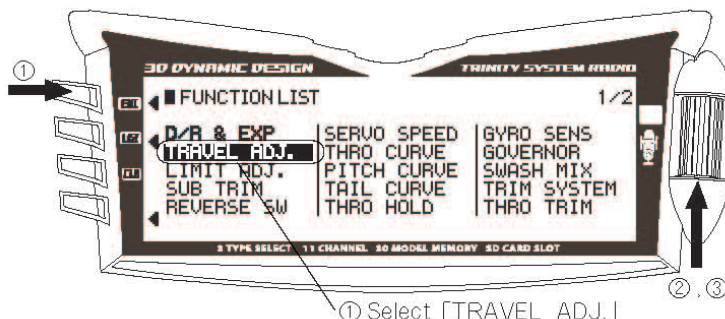
Return to [FUNCTION LIST] by pressing the [Lst] key.



② Switch to reverse

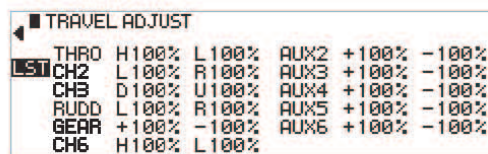
## 3. Setting TRAVEL ADJ. Values

① Turn the dial to select [TRVL ADJ.] and press the dial.



② Turn the dial to select each item and press the dial to change each in turn.

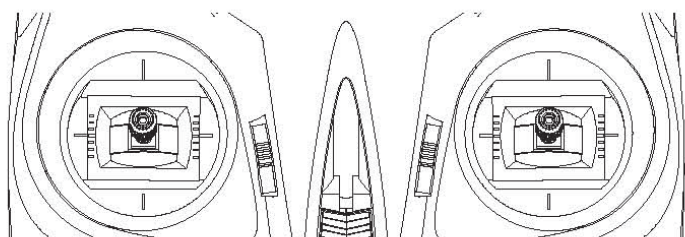
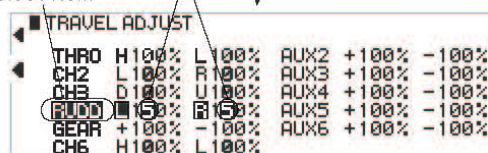
③ Turn the dial to shift to each item and input the number as shown in the figure.



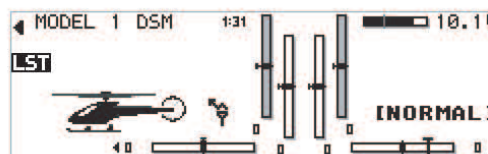
③ Input the number

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

② Select item



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



## Setting for other kinds of Radio set.

※ 1 If you use a transmitter other than the JR DSX11 or the XG8, please refer to the manufactures instruction manual.

※ 2 If you are using a FBL system other than the TAGS01, please refer to your FBL system manual.

# ☆ Transmitter Setup For The XG8

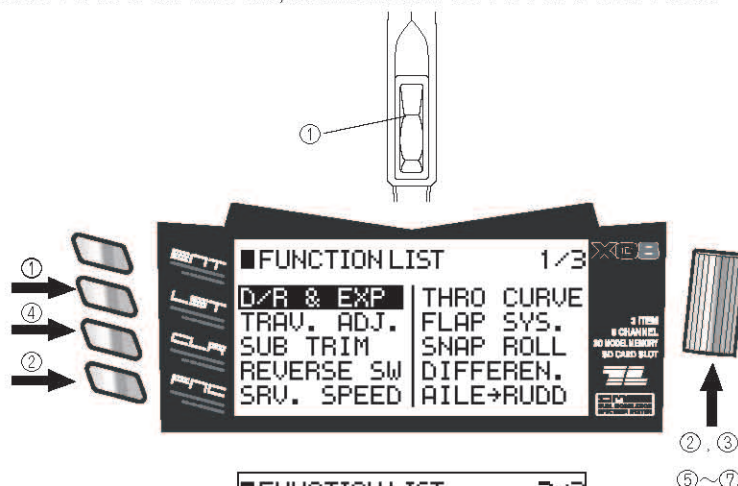
JR-CCPM plays a critical role in coordinating the simultaneous activating of multiple servos to control the swashplate. Activation of just a single servo would not lead to control of the swashplate - the three swashplate servos must be controlled in a coordinated fashion. The setup of these servos differs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

The 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).

Please also be familiar with the instructions for the transmitter. The initial settings can be entered into the transmitter without turning power on to the receiver. Please note that fine adjustment will be needed after test flying the helicopter.

## 1. Initial Radio Setup

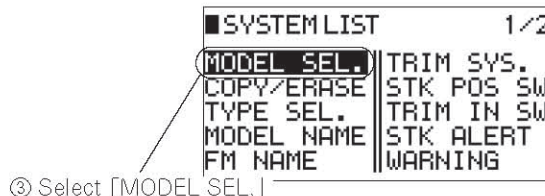
① Turn on the power switch and press the **[LST]** key located on the lower of the transmitter. [FUNCTION LIST 1/3] screen displayed.



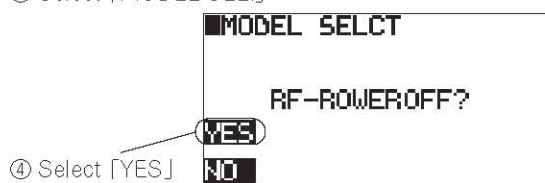
② Press the **[FNC]** key twice to display [FUNCTION LIST 3/3] and then turn the dial to select **[SYS. LIST]** and press.



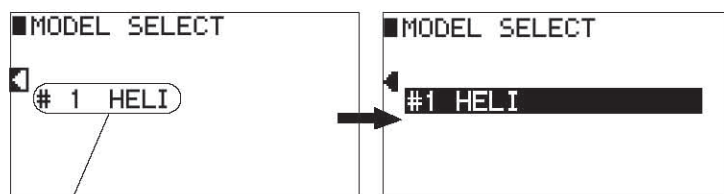
③ [SYSTEM LIST 1/2] screen displayed. Turn the dial to select **[MODEL SEL.]** and press.



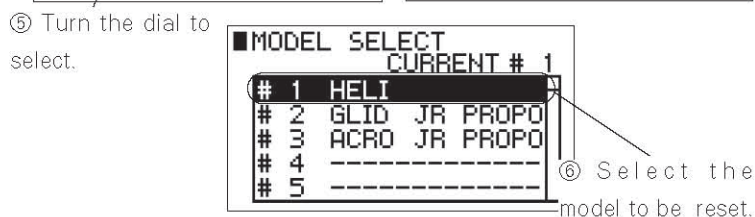
④ [RF-POWER OFF?] is displayed. Press the **[CLR]** key to select **[YES]**.



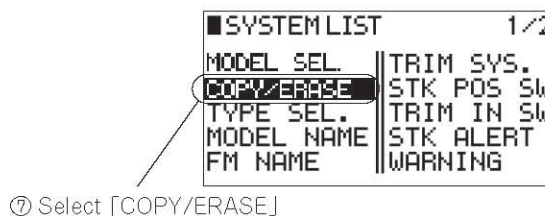
⑤ Current model No. is displayed. Turn the dial to select this area and press.



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

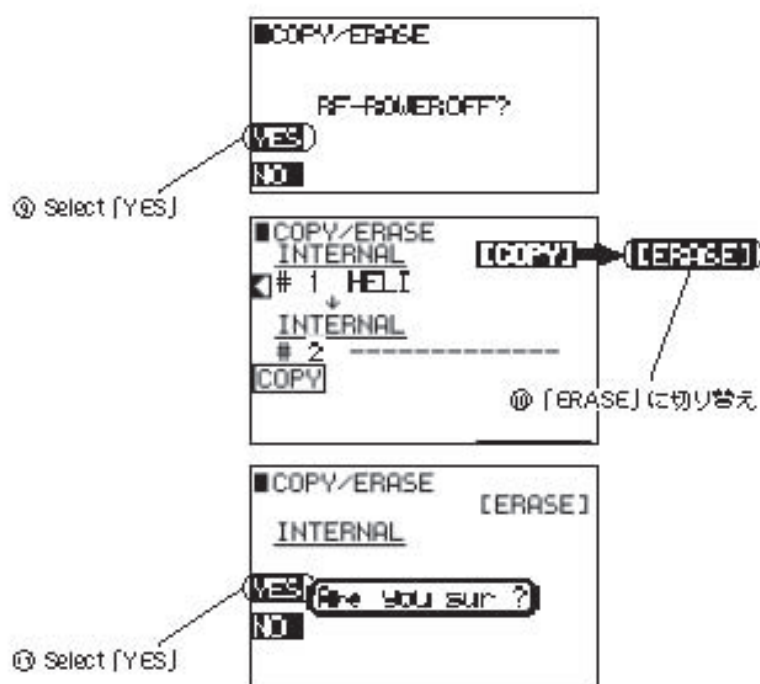


⑦ Use the **[LST]** key to return to [SYSTEM LIST]. Turn the dial to select **[COPY/ERASE]** and press.



⑦ Select [COPY/ERASE]

- ⑨ [RF-POWER OFF?] is displayed.  
Press the [CLR] key to select [YES].



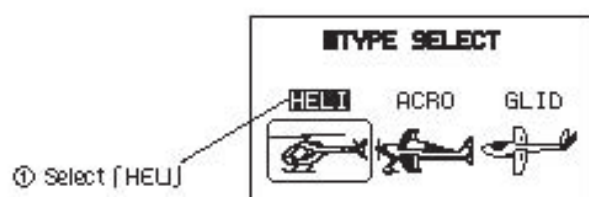
- ⑩ Turn the dial to select [COPY] and press to change it to [ERASE] then press the [FNC] key.

- ⑪ [Are you sure?] is displayed.  
Press the [CLR] key to select [YES].

## 2. Navigation feature

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.

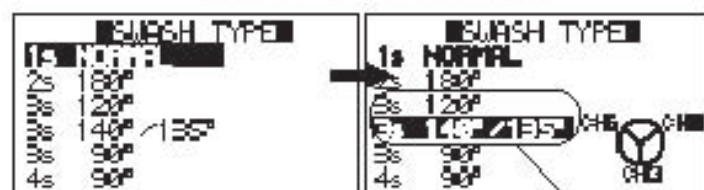


- ② [MODEL NAME] is displayed - input the model name.

(You can skip this by pressing the [ENT] key)

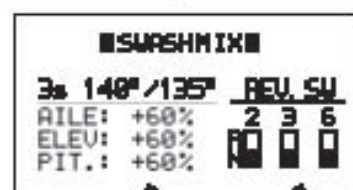


- ③ Turn the dial to select 120° CCPM or 140° CCPM and press.



- 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.



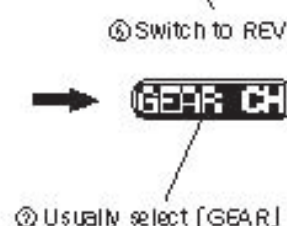
- ⑤ Turn the dial to select the reverse switch you wish to change and press to reverse. After you are finished, press the [ENT] key.



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



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



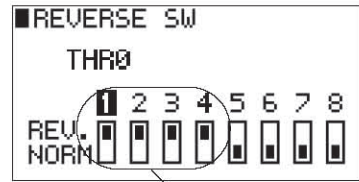
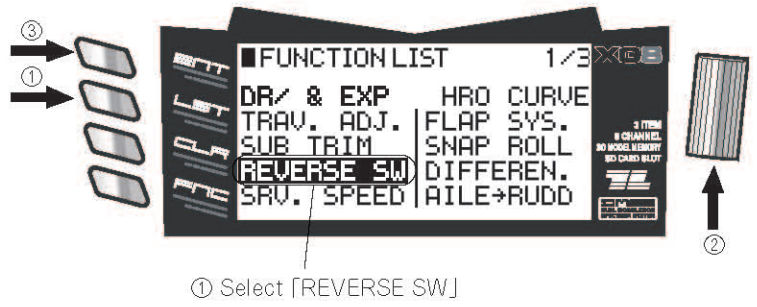
## 2. Setting Rudder Servo Direction (REVERSE SWITCHES)

① Press the **[LIST]** key to display [FUNCTION LIST 1/3].

Turn the dial to display [REVERSE SW] and press.

② Turn the dial to reverse [4 (RUDD)] as necessary.

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



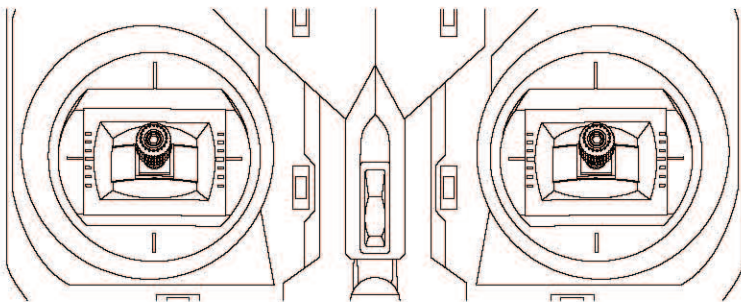
## 3. Setting the TRAVEL ADJ. Values

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

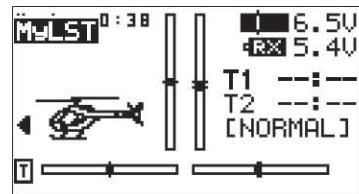
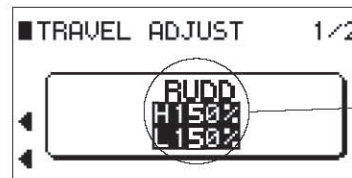
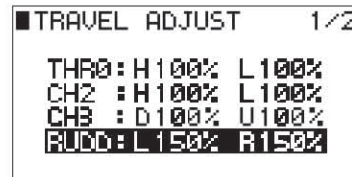
② Turn the dial to select each item and press.

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.



## Setting for other kinds of Radio set.

※ 1 If you use a transmitter other than the JR XG8 (or DSX11 as described above), please refer to the manufactures instruction manual.

※ 2 If you are using a FBL system other than the TAGS01, please refer to your FBL system manual.

# ☆ Wiring Diagram for JR Radios for FBL Rotor Head

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

The lead harnesses of the servos shown in the diagram are color coded simply for easy distinction.

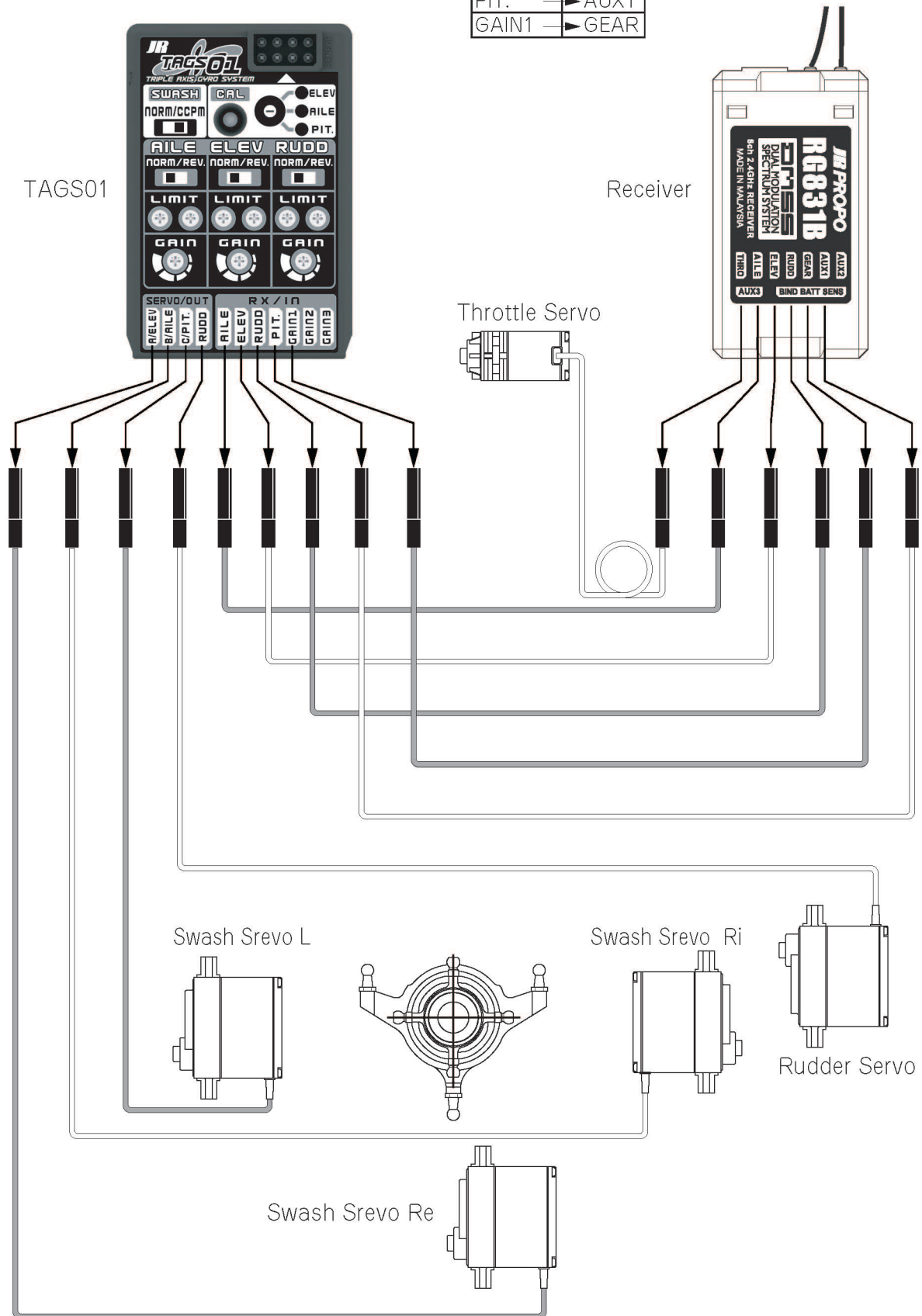
When using other makes of Radio set refer to the instruction manual to confirm correct wiring.

## Servo Connections to Receiver

Swash Servo Re	→	A/ELEV
Swash Servo Ri	→	B/AILE
Swash Servo L	→	C/PIT.

## TAGS01 connections to Receiver

AILE	→	AILE
ELEV	→	ELEV
RUDD	→	RUDD
PIT.	→	AUX1
GAIN1	→	GEAR





### DATA SHEET

	THRO	AILE	ELEV	RUDD	GEAR	PIT.	AUX2
REVERSE SW	(REV) NORM	(REV) NORM	(REV) NORM	(REV) NORM	REV NORM	REV (NORM)	REV NORM
SUB TRIM	0						
TRAVEL ADJUST	H ※1 % L %	H100% L100%	H100% L100%	H150% L150%	H100% L100%	H100% L100%	H100% L100%
FAIL SAFE							

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

Select either  
120° or 140°

Dual-Rate · EXP	POS0	D/R	AILE	ELEV	RUDD	
			60	60	80	
		EXP	60	60	80	
			+30	+30	+20	
	POS1	D/R	AILE	ELEV	RUDD	
			85	85	80	
		EXP	85	85	80	
			+30	+30	+45	
	POS2	D/R	AILE	ELEV	RUDD	
			100	100	90	
		EXP	100	100	90	
			+30	+30	+35	
	AUTO	NORM	AILE	ELEV	RUDD	
			0	0	0	
			ST-1	1	1	1
			ST-2	2	2	2
HOLD	2	AILE	ELEV	RUDD		
		2	2	2		

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	+45 %
		ELEV	+45 %
PITCH		+35 %	
EXP	(INH) ACT		
ELEV→PIT.CACELLER	INH · ( )		
Gyro SENS	AILE D/R	Channel (GEAR) AUX2	
	ELEV D/R	TYPE NORMAL (TLOCK) NORMAL · TLOCK	
	RUDD D/R	NORM (N) T 90 % N · T %	
	FMOD SW	ST-1(Pos1) (N) T 80 % N · T %	
	(AUTO)	ST-2(Pos2) (N) T 80 % N · T %	
	HOLD (N) T 90 % N · T %		

- ※ 1 Depends on the engine you use.
- ※ 2 Set swash EXP to INH.
- ※ 3 Set to the indicated mode for each position. The above are all very important. Please make sure you confirm the settings.

		EXP		L	1	2	3	H
THRO Curve	NORM	(OFF) ON	IN OUT	0 0	20 32	80 66		100 100
	ST-1	(OFF) ON	IN OUT	0 100	50 70			100 100
	ST-2	(OFF) ON	IN OUT	0 100	50 80			100 100
PITCH Curve	NORM	OFF · (ON)	IN OUT	0 30	10 50	88 78		100 90
	ST-1	OFF · (ON)	IN OUT	0 10	50 50			100 90
	ST-2	OFF · (ON)	IN OUT	0 0	50 50			100 100
	HOLD	OFF · (ON)	IN OUT	0 10	50 50			100 100

Rotor RPM guide

- Hovering 1,600 ~ 1,700 rpm
- Sports Flight 1,900 ~ 2,000 rpm
- 3D Flight 1,900 ~ 2,000 rpm

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**JR PROPO®**

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