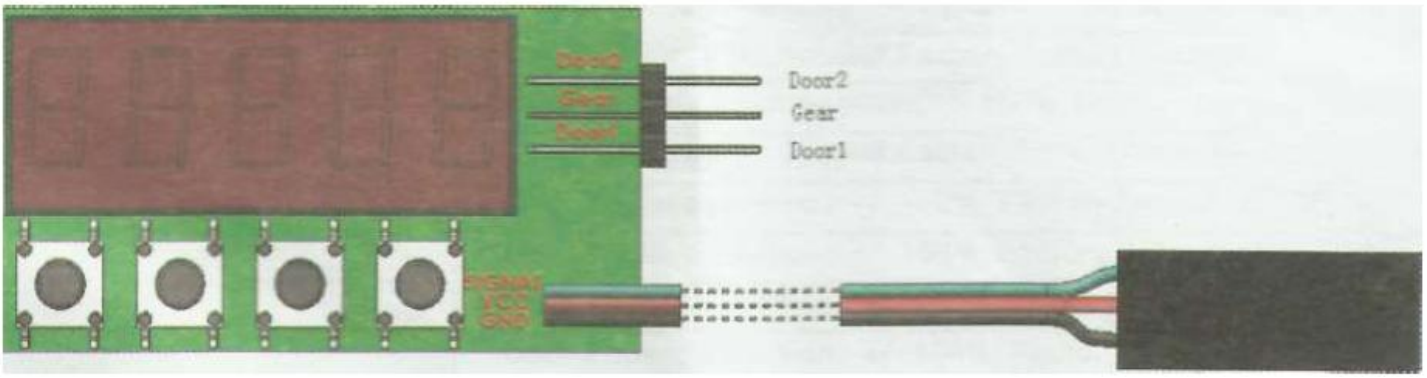
Gear and Door Sequencer Instructions Manual

Features

- Applicable to all scale model planes
- Can control landing gear and two gear doors through one channel
- Can set up the delay time between each step
- Can set up the three servos' start and end position
- Big size numerical code tube as setting interface
- V.3.0 is more easy setting and safer running.



HOW TO USE

Warning:

If it is your first time using this controller, you need read the entire manual carefully before use.

SETTING

- At first, connect the servos without load, connect the JR connector to the receive channel that you have decided on.
- Then power on, the display will show F1 at first, which means the controller is in mode F1.
- If you want to change to mode F2 or F3, press FUNC- and FUNC+ both for more than 2 seconds to change.
- About the meaning of F1, F2, F3, please see Note Table 1.
- After your choice of working mode, you need to check the servos' movement under such mode.
- Press both VOL- and VOL+ for more than 2 seconds, you see a setting list, each starts with a number.
- "o,1,2..... d" –“ o” means that the controller is on the “0”setting, the numbers following the “o” is the current volume.
- For details see Note Table 2.
- You can adjust the positions and delay time by pressing VOL- or VOL+, the servo will move to the set position in the real time.

SETTING CHECKING

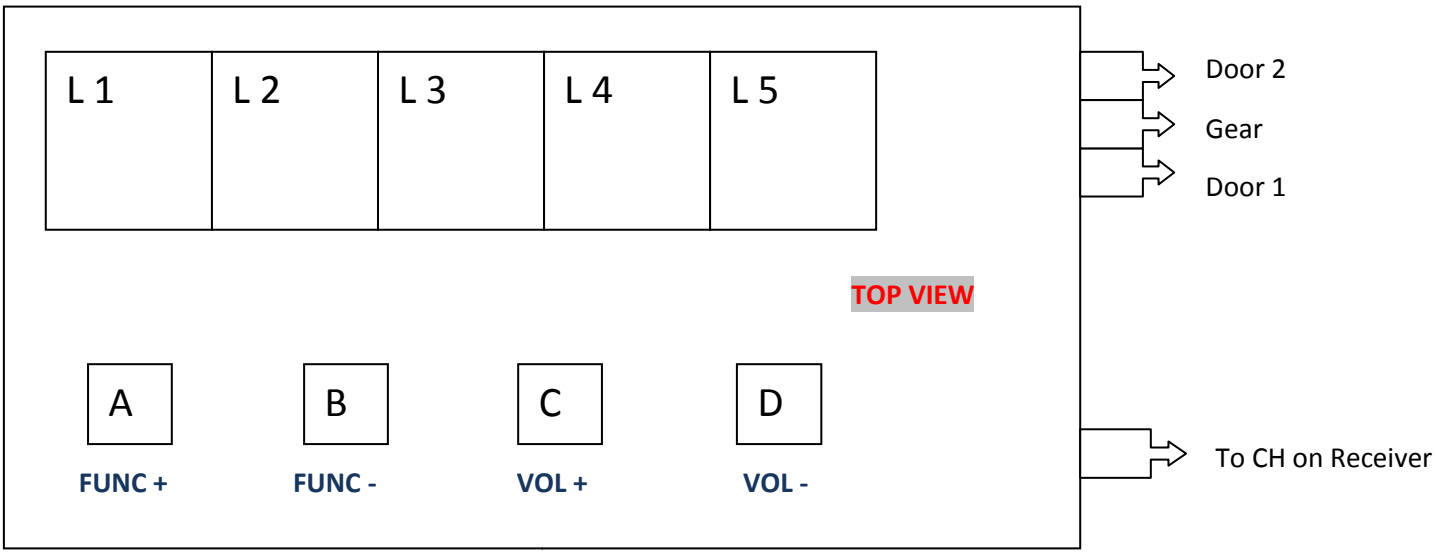
- If you busy setting and you want to check the normal running, you need to press VOL- and VOL+ both for more than 2 seconds again - this will make it back to up a level to working mode.
- Note that whenever you power your Tx/Rx off and then on again, the control signal from the Rx is active but the Gear and Door Sequencer Controller outputs to the servos are disabled.
- This is a safety feature, in order to protect your model and you from the accidental movement of the doors and landing gear on power up.
- To arm the system, you need to toggle the control channel switch on your Tx back and forth three times quickly.
- The retract controller is now armed (if your control channel has a three position switch please set it at zero).
- If the switch is at the ON position, you will see the servos start running the first half cycle of your choice of working mode.
- If the switch is at the OFF position, you will see the servos start running the last half cycle of your choice working mode.
- At this time, you may find there are still some settings that need adjustment.
- You can press VOL- and VOL+ both more than 2 seconds to enter setting mode again.

RUNNING

- After you have successfully tested the Gear and Door Sequencer Controller without load, you can install the system in your model.
- Please remember to test again after the installation and adjust the running if needed.
- There have two things you need to remember:
    - After powering the Gear and Door Sequencer Controller off, the controller needs to be armed again. Toggle the control channel switch on your Tx back and forth three times quickly to arm (if your control channel has a three position switch please set it at zero after arming)
    - 2) You need to put the controller back into working mode (press VOL- and VOL+ both more than 2 seconds)

RESETTING BACK TO FACTORY DEFAULT SETTING

- Sometime you may want to set the Gear and Door Sequencer Controller back to the factory default setting.
- This is the way to do it from the working mode:
    - Press both the VOL- and VOL+ for both more than 2 seconds to go into the programming mode
    - Then press both the FUNC- and the FUNC+ for more than 2 seconds, the displays will flash and all data is set back to factory default setting.



- L1 to L5 is five numerical code tubes. L1 show function code, L2 to L5 show value. The details are listed in the tables below.
- FUNC+, FUNC-, VOL+, VOL- are Buttons, these are used to change the mode, to start and to set, etc.
- Door1, Gear and Door2 are the connectors to operate servos.
- The JR connector is used to connect to your control channel on the receiver.

Short Description and Delay Settings

	L2 to L5	Description
F	1～3	3 different running modes (Mode 1,2 and 3, see Note below)
0	700～2500	Door1 opened position， XXXμS
1	700～2500	Door1 closed position， XXXμS
2	700～2500	Landing Gear up position， XXXμS
3	700～2500	Landing Gear down position， XXXμS
4	700～2500	Door2 opened position， XXXμS
5	700～2500	Door2 closed position， XXXμS
6	1～999	Delay 1， XXX * 0.1Second
7	1～999	Delay 2， XXX * 0.1Second
8	1～999	Delay 3， XXX * 0.1Second
9	1～999	Delay 4， XXX * 0.1Second

Note Table 1:

Working Mode **F1**	Radio control channel switch **ON**	Door **1,2** Open first Waiting (Delay **1)** time Landing Gear Down
	Radio control channel switch **OFF**	Landing Gear Up first Waiting (Delay **2)** time Door **1,2** Close
Working Mode **F2**	Radio control channel switch **ON**	Door **1,2** Open first Waiting (Delay **1)** time Landing Gear Down Waiting (Delay **2)** time Door **1,2** Close
	Radio control channel switch **OFF**	Door 1**,2** Open first Waiting (Delay **3)** time Landing Gear Up Waiting (Delay 4) time Door **1,2** Close
Working Mode **F3**	Radio control channel switch **ON**	Door **1,2** Open first Then waiting (Delay **1)** time And Landing Gear Down Then waiting (Delay **2)** time And Door **2** Close
	Radio control channel switch **OFF**	Door **2** Open first Waiting (Delay **3)** time Landing Gear Up Waiting (Delay **4)** time Door **1,2** Close

Note Table 2:

Under F1 Working Mode			
FUNCTION	**VOLUME**	**DESCRIPTION**	**FACTORY DEFAULTS**
0	+/- 150	Door 1 opened position, +/-150%	Factory Default = 100%
1	+/- 150	Door 2 opened position, +/-150%	Factory Default = 100%
2	1 ~ 999	Delay 1, XXX* 0.1 Second	Factory Default = 10*0.1 sec
3	+/- 150	Landing Gear Down Position, +/-150%	Factory Default = 100%
4	+/- 150	Landing Gear UP Position, +/-150%	Factory Default = 100%
5	1 ~ 999	Delay 2, XXX* 0.1 Second	Factory Default = 10*0.1 sec
6	+/- 150	Door 1 closed position, +/-150%	Factory Default = 100%
7	+/- 150	Door 2 closed position, +/-150%	Factory Default = 100%
Under F2 Working Mode			
0	+/- 150	Door 1 opened position, +/-150%	Factory Default = 100%
1	+/- 150	Door 2 opened position, +/-150%	Factory Default = 100%
2	1 ~ 999	Delay 1, XXX* 0.1 Second	Factory Default = 10*0.1 sec
3	+/- 150	Landing Gear Down Position, +/-150%	Factory Default = 100%
4	1 ~ 999	Delay 2, XXX* 0.1 Second	Factory Default = 10*0.1 sec
5	+/- 150	Door 1 closed position, +/-150%	Factory Default = 100%
6	+/- 150	Door 2 closed position, +/-150%	Factory Default = 100%

7	+/- 150	Door 1 opened position, +/-150%	Factory Default = 100%
8	+/- 150	Door 2 opened position, +/-150%	Factory Default = 100%
9	1 ~ 999	Delay 3, XXX* 0.1 Second	Factory Default = 10*0.1 sec
a	+/- 150	Landing Gear Up Position, +/-150%	Factory Default = 100%
b	1 ~ 999	Delay 4, XXX* 0.1 Second	Factory Default = 10*0.1 sec
c	+/- 150	Door 1 closed position, +/-150%	Factory Default = 100%
d	+/- 150	Door 2 closed position, +/-150%	Factory Default = 100%
Under F3 Working Mode			
0	+/- 150	Door 1 opened position, +/-150%	Factory Default = 100%
1	+/- 150	Door 2 opened position, +/-150%	Factory Default = 100%
2	1 ~ 999	Delay 1, XXX* 0.1 Second	Factory Default = 10*0.1 sec
3	+/- 150	Landing Gear Down Position, +/-150%	Factory Default = 100%
4	1 ~ 999	Delay 2, XXX* 0.1 Second	Factory Default = 10*0.1 sec
5	+/- 150	Door 2 closed position, +/-150%	Factory Default = 100%
6	+/- 150	Door 2 opened position, +/-150%	Factory Default = 100%
7	1 ~ 999	Delay 3, XXX* 0.1 Second	Factory Default = 10*0.1 sec
8	+/- 150	Landing Gear Up Position, +/-150%	Factory Default = 100%
9	1 ~ 999	Delay 4, XXX* 0.1 Second	Factory Default = 10*0.1 sec
a	+/- 150	Door 1 closed position, +/-150%	Factory Default = 100%
b	+/- 150	Door 2 closed position, +/-150%	Factory Default = 100%

Attention:

In the Table, the description of DOOR 1, Door 2 and Land Gear's Opened Position /Closed Position, Up/Down Position, the real positions maybe different from your real conditions. You need check all positions without load on the ground first, and make sure all actions are right before flying.

Compiled by: Encore

Date: June 2012