Electronic Release System

Thank you for purchasing the Electronic Release System from Wingspan Models. There has never been product anything like this until now. You'll be amazed at how easy it will be to add multiple drop bombs to any aircraft. What would have taken up to four (4) servos and channels along with a complicated mechanism to do previously, can now be done in only one channel using the Electronic Release System. This frees up extra channels as well as space for other accessories and greatly reduces the complexity of adding drop bombs to any scale aircraft. This Electronic Release System is capable of dropping up to six (6) bombs in four (4) different modes and includes a time delayed servo pass through for operating another accessory. The servo pass through can also be enabled or disabled, allowing for up to eight (8) different release configurations. So no matter what type of scale aircraft type it's used in the Electronic Release System has got you covered. The Electronic Release System will increase the level of scale realism, and more importantly adds the WOW factor never before seen at the flying field.

REQUIREMENTS:
To work properly the Electronic Release System requires one free channel on a PCM receiver preferably set to a toggle switch. The electronic pylons are powered by a separate 6V battery having at least 2500mAh of capacity.

USER'S GUIDE:
The Electronic Release System works on the full pulse width received from the transmitter/receiver. It is therefore best to set the input signal channel as a two position toggle switch. For most modern radios systems it is not a problem to reassign switches, but for older or non computer radio systems the electronic release system will still work. In the case where a toggle switch is not available a rotary switch will also work. For rotary switches, make sure to rotate the switch to full open position prior to activation, then to activate rotate the switch to the full closed position. For the individual release mode repeat this process for each release. In the sequential and simultaneous modes one cycle of the rotary switch will release all bombs.

SETUP:
Use the supplied 4-40 wood screws to mount each release pylon cover in the desired location. This may require adding a hardwood block to screw into. Once the pylon cover is secured, snap the pylon housing on to the cover. Once the housing is installed make sure the manual release knob can slide back and forth freely.

When multiple pylons are mounted next to each other ensure that there is enough space for each bomb so that they do not come in contact with each other (See Figure 2). When mounted vertically the bombs will be at a slight downward angle due to gravity. Again make sure that the bombs do not come in contact with each other or they may not release (See Figure 3). Route the wires from the release pylons to the location where the Electronic Release Module will be mounted. In the case of longer wire runs, servo lead extensions may be used. Connect each release pylon into the numbered pylon jacks one (1) through six (6). Make sure that the lower numbers are used first as the release sequence goes from one (1) to six (6) (See Figure 4).

Refer to your radio's user manual on how to assign a switch to the desired channel that will operate the Electronic Release System. Once the switch has been assigned use the supplied input cable to send the signal from the receiver to the Electronic Release Module. Plug one end into the assigned channel on the receiver and the other end into the input jack of the Electronic Release Module. Connect the battery to the battery jack and if using an accessory, plug the accessory servo into the servo jack. The Electronic Release Module should be mounted in the same manner as the receiver. It should be wrapped in foam and mounted so that in the event of an accident, the Electronic Release Module is not impacted by heavier objects like a battery.

OPERATION:
The Electronic Release System has four (4) release modes (One by One, Three by Three, sequential, and simultaneous) and a 2 second time delayed servo pass through for operating an accessory like bomb bay doors. To set the release mode to the desired state, adjust the dip switch per the diagram on the Electronic Release Module (See Table 1). To enable or disable the servo pass through set the jumper to whichever position is desired. To mount each bomb pull back on the manual release knob and load the bomb, then return the manual release knob to its original position.

Mode of operation

RELEASE MODE	1	2	3
One X One	ON	ON	-
Three X Three	OFF	OFF	-
Sequential	OFF	ON	-
Simultaneous	ON	OFF	-
Servo Enable	-	-	ON

TABLE 1

GOOD   NO GOOD

FIGURE 2

GOOD   NO GOOD

*FIGURE 3*

Manual Release Knob
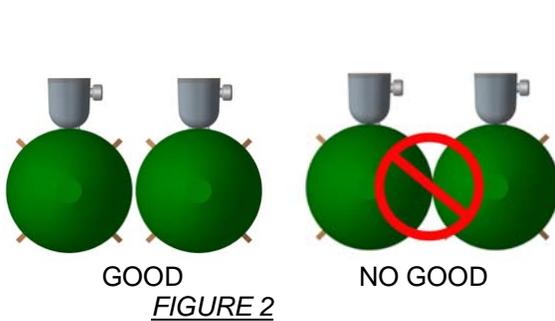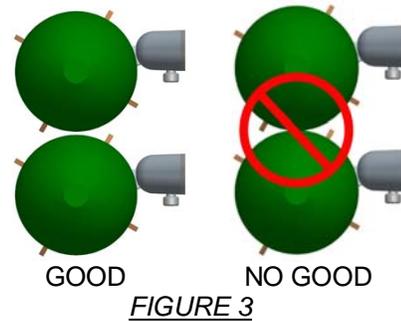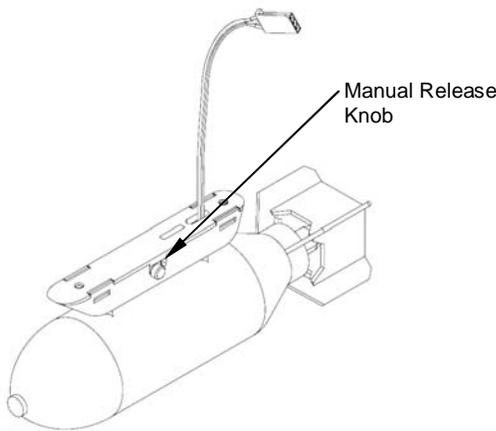
FIGURE 4
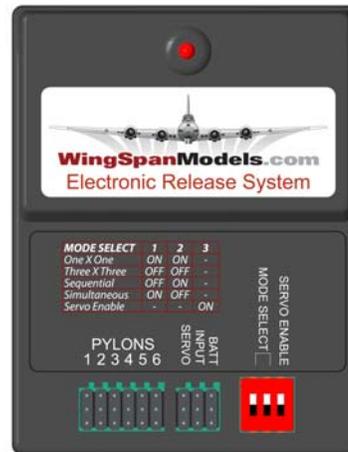
TECHNICAL SUPPORT:

For additional information about this product or help in solving technical issues please visit us at www.wingspanmodels.com or email us at support@wingspanmodels.com.

LIMITED WARRANTY:

Wingspan Models warrants that this product is free of defects in material and workmanship, subject to the following conditions:

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