Binder Design
Excel (dual-deploy) rocket kit

Excel
HIGH POWER ROCKET KIT
BUILDING INSTRUCTIONS
"EZ MOTOR RETAINER" INSTRUCTIONS

BINDER DESIGN 3.0" AVIONICS BAY KIT
BINDER DESIGN SCREW SWITCH

BUILDING INSTRUCTIONS

HIGH POWER ROCKET KIT

Excel

Fisher series kit

Kit Specifications:

Designed for TRA and NAR Level One and Level Two certifications, the Excel stands ready to do the job. Designed for an easy build, stable flights and eye-catching looks. This kit also comes with nice upgrades like motor retention hardware, rail buttons, nylon recovery harness and a rip-stop nylon parachute. It also features our unique, super strong fin section components and detailed instructions

Features a kit industry first...Modular fin can construction!

DIAMETER:	3.0"
LENGTH:	36.75" single deploy, 52.68" dual deploy
MOTOR MOUNT:	29mm or 38mm
REC. MOTORS:	
29mm*:	G80T G104T H128W H180W H238T I200W
(*) H motors or larger recommended for dual deploy version	
38mm:	H242T I161W I211W I300T I195J I284W I435T** J350W**

(**) Indicates that this model can fly on these high thrust motors if expert modeling techniques are utilized and 30 minute epoxy is used throughout construction. In addition, for flights that may achieve mach speeds, it is highly recommended to reinforce the fins with fiberglass or carbon fiber to minimize fin flutter.

Important: Nose weight may be required for this model to be stable on larger motors. Always check stability margin before flight!

Kit includes cut and sanded 1/4" aircraft quality plywood fins, high strength airframe tube, centering rings, aft thrust ring, high quality hardware package, motor tube, plastic nose cone, computer designed and cut vinyl decals to finish as shown. Includes motor retention!

NOTICE TO BUYER...This model rocket kit is not a toy! It is not recommended for children under age 18, unless used under adult supervision. If not assembled and used properly, it could cause property damage, personal injury, or death. By purchasing this kit, the buyer agrees that neither Binder Design nor the designer of this kit will be responsible for damage occurring through the use of the product and shall be held harmless in any such claims. If the buyer is not prepared to accept full responsibility for the use of this product, buyer should return unopened kit in original condition to place of purchase. Always follow NAR or TRA Safety Codes when using any model rocket products, and use common sense. This model may require FAA waiver for flight. Consult your local rocket club for more information or contact the NAR or TRA.

BINDER DESIGN
www.binderdesign.com

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"EZ MOTOR RETAINER" INSTRUCTIONS

Excel
BINDER DESIGN
"EZ MOTOR RETAINER" INSTRUCTIONS
Finally, a simple, affordable motor retainer that can be installed on new rockets or retrofit to already built rockets. Retains Aerotech, CTI, and snap-ring style hardware!
BINDER DESIGN
Contents:
2 Threaded Inserts
Important!: The EZ Motor Retainer is designed to work on rockets with the motor tube flush with the back centering ring. If your motor tube extends past the aft ring, you will need to trim it flush with the aft ring.
Preparation: Locate all of the parts and set them aside where they won't get lost. If you are missing anything, please contact Binder

Rail Button
SUPPLY HOUSE
1010 Deluxe Rail Buttons
Screw type: zinc/phillips
(see reverse for mounting diagram)

BINDER DESIGN 3.0" AVIONICS BAY KIT

BINDER DESIGN

A full 12" long for mounting of altimeters, timers, transmitters etc. Features a 4" long section of airframe for mounting of switches and provides the perfect place for drilling of vent holes. Stepped end-caps minimize the chance of ejection gas leakage into the bay interior. Comes complete with screw-switch for remote arming!

PARTS LIST:

- 2 - 6" long airframe couplers
- 1 - 4" long section of 3.0" airframe
- 2 - drilled end caps
- 2 - drilled bulkhead plates
- 2 - all-thread sections
- 2 - eye-bolts
- 8 - 1/4" nuts
- 10 - washers
- 4 - wing-nuts
- 1 - screw switch with arming decal

CUT AWAY VIEW

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INSTRUCTIONS:

☐ Mark both couplers 2" from one end. Apply epoxy to the inside of the 4" long section of airframe and slide the couplers into the airframe up to the marks until they bottom

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BINDER DESIGN
SCREW SWITCH
A robust screw
wire, strain relief and
ends.
arming decal.
Installation instructions:
Drilling and mounting:
where you want to place the hole for the switch, making sure on
airframes that the back of the screw will not hit against your altimeter
When you are pleased with the placement, drill a 3/8" hole
airframe, and or coupler. Test fit the switch and make sure that there is
the back of the switch and your electronics mount. If you
pleased with the placement, mix up a batch of epoxy and epoxy the
in the hole. After your model is painted, affix the arming decal to your
by peeling off the application tape. The decal will come up with the
Line up carefully and press the decal into position, smoothing out the
Remove the tape and the decal will remain affixed to your rocket.
to your electronics:
have an altimeter with
arming switch, just
the ferrules to your
altimeter does
separate
have to wire the
the positive lead
off the ferrules
the switch
lead and
altimeter
tubing on
splices.
operation:
The switch closes the
circuit by turning counter-clock
be
intermittent when the screw first closes the
the
circuit is completed.