Engine Adapter
EA 24/29

Be sure to check the following list to be sure your kit is complete:
1 Engine Adapter Tube; 1 Yellow Pusher Tube; 1 Spiral-Wound Engine Block; 1 Green Spacer Tube

You may fly your adapter without an engine block if desired, if so follow these instructions:
Test fit the engine into the Engine Adapter Tube. If you are using an engine that does not have a built in thrust ring at the nozzle end you will need to make one by using 1/4" to 1/2" wide masking tape. Tightly wrap enough tape around the end of the engine to create a thrust ring equal in diameter to the thickness of the tube of the Engine Adapter as shown in Figure A. Also wrap enough masking tape around the engine until it fits snugly into the tube. The engine should fit tightly enough so that you cannot pull it out easily with your fingers.
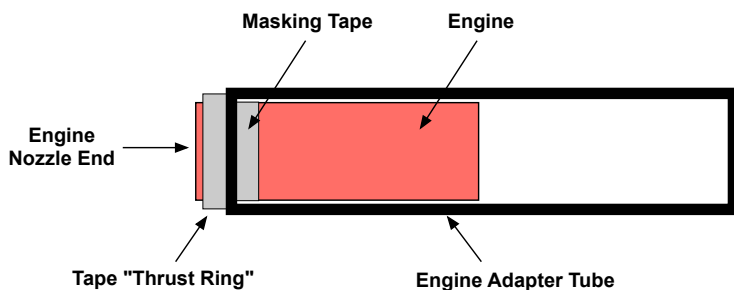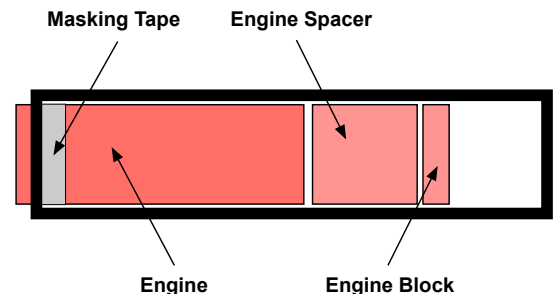

Figure A

Figure B

If you want to use an engine block, follow these instructions:
Locate the yellow pusher tube and make a pencil mark 1/4" from one end. Using a piece of scrap wood, cotton swab, etc., apply a small amount of glue all around the inside the adapter tube about 2" up inside the tube. Insert the engine block into the tube and take the yellow pusher tube and push the engine block into place up to the mark on the yellow tube. Remove the yellow tube and discard. Allow the glue to dry thoroughly.
The engine block is now glued to a depth to allow the use of the longer Estes black powder E9 engines, if flying with a 24mm Estes C11 or D12, or an Aerotech or Estes composite E, first insert the green spacer tube ahead of the engine then test fit the engine into the rear of the engine tube. Remove the engine and wrap enough masking tape around the engine until it fits snugly into the tube as shown in Figure B. The engine should fit tightly enough so that you cannot pull it out easily with your fingers.

The adapter with the engine can now be inserted into the engine mount of the model. If the model does not have any positive retention (such as hooks or a screw-on retainer), wrap tape around the outside of the adapter (like you did with the engine) to friction fit the adapter into the model.