

18 August 1996

CONSTRUCTION AND ASSEMBLY MANUAL

(p/n 523-8121)



RST ENGINEERING

MAIL: 13249 Grass Valley Ave
SHIP: 13993 Downwind Court
Grass Valley CA 95945
(916) 272-2203 (voice & fax)
E-mail: sales@rst-engr.com
Web Page <http://www.rst-engr.com>

RST-523 Marker Beacon Receiver Printer Prototype3 (cardboard cutout) Version

Welcome to the “cardboard cutout” version of the RST-523 Marker Beacon Receiver. This model is intended to allow you to “install” the receiver into your aircraft for form and fit before actually purchasing the full kit. We are pleased to give you this model with our compliments and hope that you find a good use for it. If you want another copy, it is available on our website at www.rst-engr.com in a .zip format with .gif graphics.

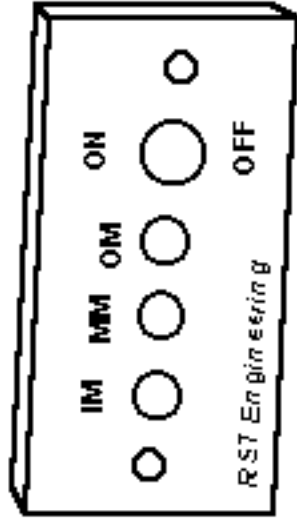
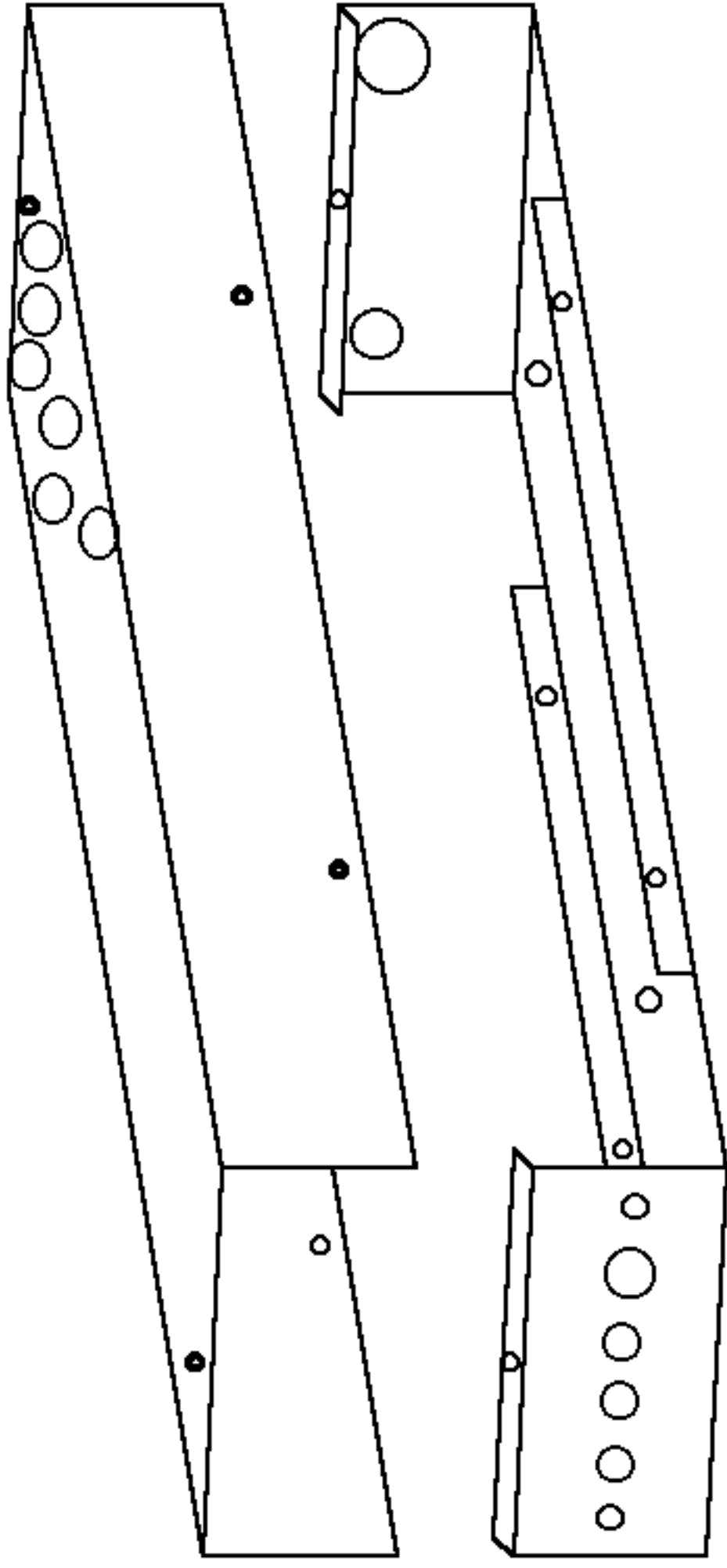
INSTRUCTIONS:

1. The completed model should resemble the conceptual view shown in drawing 523-0600. The only addition to this drawing is the inclusion of the printed circuit board mounted inside the chassis on the cutout drawing.
2. Print or copy the Cutout Model page (drawing 523-0610) on a sheet of moderately heavy paper or card stock. Check the 5.60” dimension on the cover to be sure that your printer or copier has not enlarged or reduced the 1:1 drawing size of the original drawing.
3. Cut out the five main components of the marker receiver: Main Chassis, Cover, PC Board, and both Vertical and Horizontal faceplates. (Note -- in the “real” kit, the faceplate is BLACK with WHITE lettering, and there is only one faceplate with vertical and horizontal markings on the front and back of the faceplate respectively. The faceplate can then be used for either mounting orientation by reversing the faceplate.)
4. Main Chassis: Fold the side chassis lips (“A” and “B”) at the dotted line DOWN (away from the printing) at a right angle. Fold front and rear lips (“C” and “D”) down at a right angle. Fold front and rear surfaces (“E” and “F”) down. You should have a structure that resembles the main chassis as shown on the 3-D view. (Note -- all printing will be on the OUTside of the chassis.)
5. Cover: Fold the two sides (“G” and “H”) down at the dotted lines. Test the cover for fit over the chassis and make any minor bending corrections that may be necessary for fit. Note that the cover will fit either way on the chassis.
6. The marker receiver in the “real” unit will mount onto the main chassis (note matching holes) with ¼” standoffs. You can glue the PC board down onto the main chassis inside surface OR make little tiny standoffs using soda straws and glue the straws to the chassis and the PC board to the straws.
7. Faceplate: The faceplate in the “real” unit has small colored lenses at IM (red), MM (yellow) and OM (green). There is also a toggle switch protruding 0.3” out the front of the “on-off” hole. Simulate these parts any clever way you wish (colored candy at the lights and a cutoff toothpick for the switch handle) and then glue the faceplate to the main chassis. The little holes at the ends of the faceplate will get #4 panhead screws to hold the faceplate to the chassis in the “real” version.
8. To make the simulation complete, there is a 9-pin plug about the size of two sugar cubes side by side coming out the small hole on surface “F” (the rear panel) and an RCA or (optional) BNC panel mount antenna jack extending about ½” out the rear of the large hole on surface “F”. A block of balsa wood with a heavy string will simulate the connector and a small cork glued to surface “F” will make a good antenna jack. When you are happy with the way it looks, glue or tape the unit together.

Please note that you will have to fly this unit and note conformance to the FARs before using it under actual instrument conditions!!!

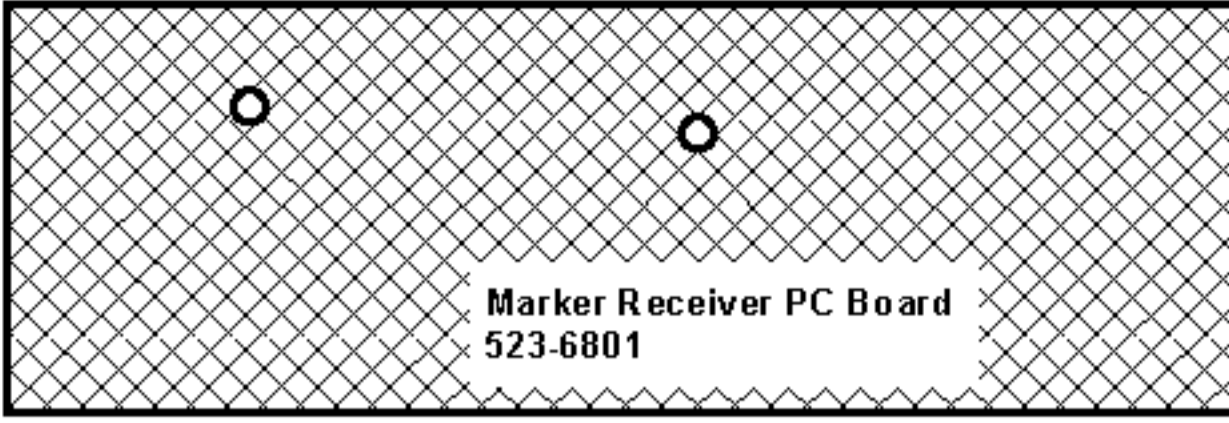
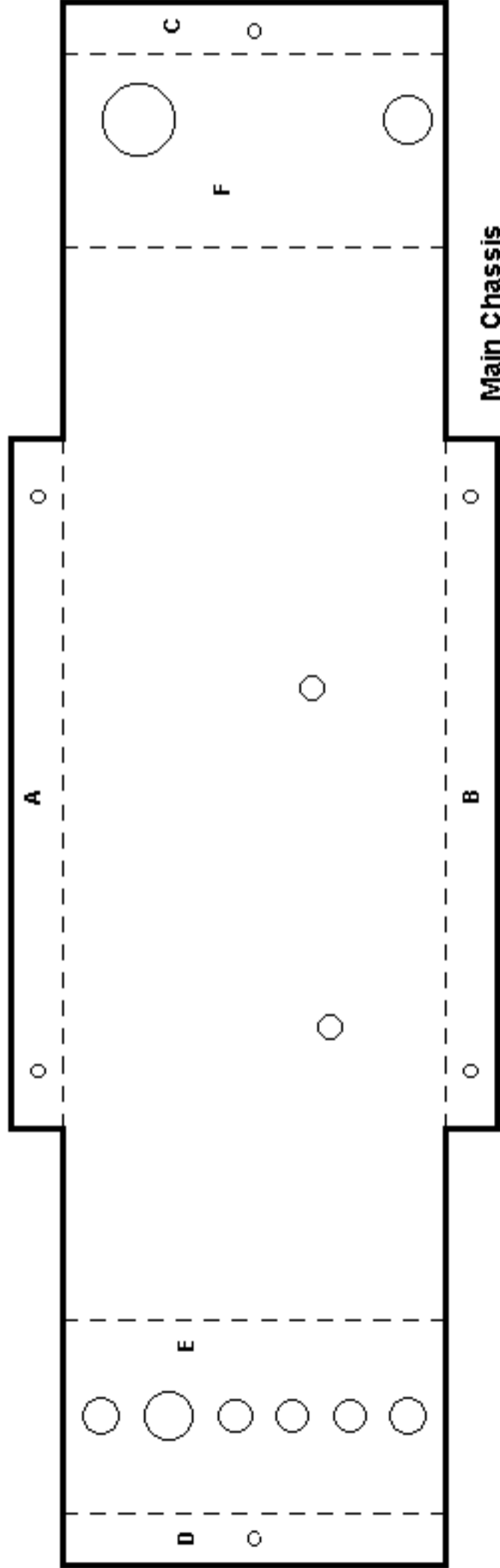
Enjoy,

Jim Weir
VP Engineering

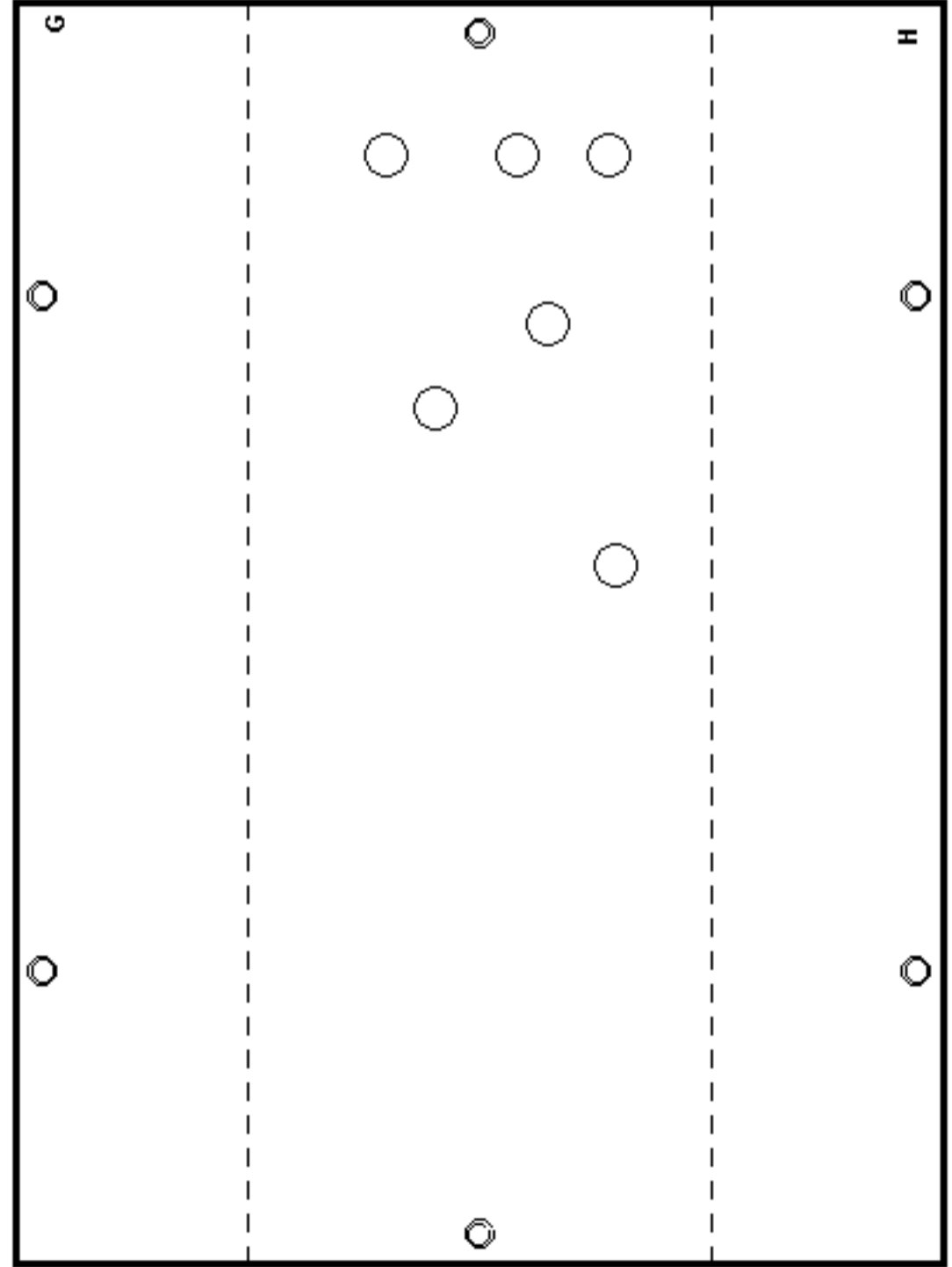
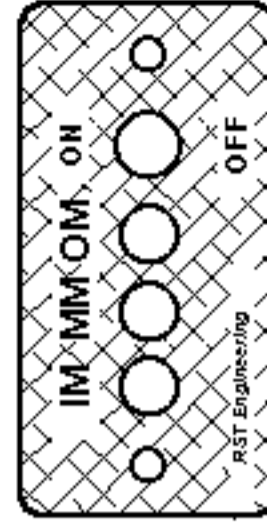
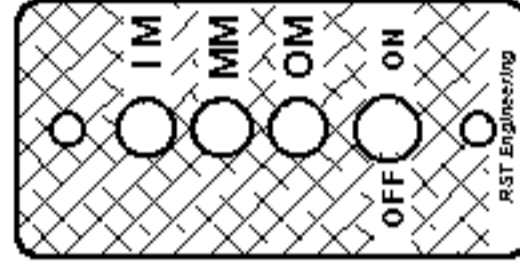


RST-523 3-d Conceptual Views

Scale: NTS	Approved by: <i>Gene West</i>	Drawn by: OWJ
Date: 15 Aug 96		Rev: A
RST Engineering 13249 Grass Valley Ave Grass Valley CA 95945 916/272-2203 (voice & fax) rst-engr@oro.net		Drawing # 523-0600



Faceplate Vertical mount



**RST-523 Marker Beacon Receiver
Printer Prototype Cutout Drawing**

Scale: 1:1

Date: 17 Aug 96

Approved by: *Gene Weisz*

Drawn by: OWJ

Rev: A

RST Engineering

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Drawing #

523-0610