

# WRIST INSTRUMENTS – BUGS – REDUCING MASKS



## VECTOR WRIST-TOP COMPUTER

The Vector combines an altimeter, vertical speed indicator, barometer, compass and a precision timepiece in one compact wristwatch-sized case. The instrument allows altitude measurement in feet or meters, up to a max. 27,000 ft., accurate to plus or minus 10 ft. It also provides instantaneous vertical ascent & descent rates in either feet/second or meters/second. The backlit display is easy to see in all lighting conditions. The barometer displays current barometric pressure and trends for accuracy, and deviation adjustment to correct for differences between true and magnetic north. Reliable & accurate, this new instrument provides time, day and date, as well as three daily alarms, a stopwatch and countdown timer. The unit is also waterproof to 100 ft. P/N 10-19325 .....

## MICROTIM™ BAROMETRIC ALTIMETER



**Features:** \* Extreme sensitivity. Registers changes in altitude of 2 feet or less. \* Calibrated from -2000 feet MSL (2000 feet BELOW sealevel) to +20000 feet MSL (20000 feet ABOVE sealevel). \* Low Power. Single AAA battery lasts for months. Battery monitor gives several DAYS of low-battery notice. \* One foot resolution, barometric-pressure and field-elevation adjustable. \* AGL(relative), MSL(sealevel) or BOTH alternately every 2 seconds. \* Selectable units: feet/inHg or meter/kPa or feet/mbar(hPa). \* Excellent ultralight altimeter or backup unit. Small (3"x1.5"x3/4") with large easy-to-read numbers (3/8" high numbers). Very durable (resin encapsulated internals), resists shock, vibration, and moisture. \* EASY TO USE right out of the box. The 3 primary key functions allow you to o 1) Raise the barometric pressure setting o 2) Lower the barometric pressure setting o 3) Zero the ground-level altitude (AGL) \* Then three additional functions are accessed by holding down one key for 5 seconds which allows you to o 4) Change units o 5) Change the display mode ( AGL, MSL, or BOTH) o 6) Reset MicroTim to factory defaults (AGL only, feet, 29.92 inHg). ...and that's all there is to it! P/N 10-01726 .....

## INSTRUMENT BUGS



"Bugs" are perfect for pilots who rent aircraft, and for owners. The transparent suction cup works on all instruments. A thumb screw friction lock lets the yellow pointer tip rotate 360°. Fly with it day & night. Includes: 2 "Bugs" in a plastic reusable storage box with instructions and 4 disposable alcohol swabs, which are used to clean the instrument face and bugs so that they stick well. P/N 10-00114 .....

## AIRCRAFT INSTRUMENT COVER



The instrument cover is a plastic disk approximately 2 3/4" in diameter and 1/16" thick. By use of the attached suction cup, the cover will mask the face of most general aviation flight instruments. It is useful in many training situations one of which is partial panel work. As a safety aid, the cover can be used to mask an instrument when it is non-functional, as is required by Regulations. Each package has two covers. P/N 13-04968.....

## INSTRUMENT COVERS



The suction cup on the back of this soft rubber disc enables the pilot or instructor to cover up one or more flight instruments for partial panel instruction or to cover a failed instrument during flight. Measures 3-1/8" in diameter. Flight instructors and IFR pilots should have several of these handy covers in their flight bags. P/N 13-00088..... ea

## INOPERATIVE INSTRUMENT AID



Designed with static cling polyester, the IIA will stick to your glass instrument face without licking and will stay there until you want to remove it. Practicing instrument failures during flight is a requirement by the Federal Aviation Administration for your practical test. One package includes four Inoperative Instrument Aids. Developed by a Certified Instrument Flight Instructor with the intent to improve instrument instruction. measures 3" in diameter. P/N 13-04173 .....

## 3ATI REDUCER PLATES



Reducer Plates 3-1/8"

**3ATI Reducers to 3 1/8"** - Use a 3ATI hole cut out to mount 3 1/8" diameter instrument. Plate can be shimmed to instrument-panel thickness. Simple installation. Heat-treated aluminum .080 thick with black anodize finish. P/N 07-01331 .....



Reducer Plates 2-1/4"

**3ATI Reducers to 2 1/4"** - Use a 3ATI hole cut out to mount 2 1/4" diameter instruments. Plate can be shimmed to instrument-panel thickness, comes with 4 rivets. Simple installation. Heat-treated aluminum .080 thick with black anodize finish. BACK PLATE 3.8 X 3.8 P/N 07-01330 .....

## REDUCING MASKS



Precision die-cut black anodized aluminum masks simplify installation of small instruments in large instrument panel cut-outs. 3 types available.

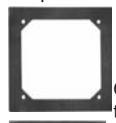
- #1: Large AN-type artificial horizon cut-out to 3-1/8" size P/N 10-05900 .....
- #2: Large AN-type directional gyro cut-out to 3-1/8" size P/N 10-06000 .....
- #3: 3-1/8" size cut-out to 2-1/4" size ..... P/N 10-06100 .....



template.

## DRILL JIG AND FILING TEMPLATE FOR THE 3 ATI INSTRUMENT CUT

A handy much needed tool to have for those difficult to make 3 ATI cut outs that everyone complains about. A rugged tool made of alloy steel with a 58-60 RC hardness for long life. Simply drill mounting holes and cut opening file to P/N 10-00153 .....



## MOUNTING PLATE FOR THE 3 ATI INSTRUMENT

Quick fix for a hard to cut out opening. Plate is .500 wider than instrument. For easy mounting, material is .080 aluminum P/N 10-00154 .....



## REDUCING PLATE FROM 2-1/4" DIA.

Reduce from 2.25" to 2" diameter instrument. For oil pressure, ammeter gauge etc. P/N 10-00155 .....



## INSTRUMENT COVERS FOR PARTIAL PANEL PRACTICE

Sold in 4 packs of 25 (for a total of 100 sticky notes). These round pads are white with a light blue ASA logo, and fit any aviation instrument. Perfect for partial panel practice or jotting down quick notes. P/N 13-21776 .....



## ANGLED INSTRUMENT MOUNTS

This angled instrument mount allows replacement of a 3-1/8" gauge with a 2-1/4" gauge. It places the gauge at a 20° angle toward the pilot for easier reading and reduced glare. Made from 20% glass fiber filled Lexan. P/N 10-06800 .....



## INSTRUMENT PANEL COVER-UPS

These white stick on instrument size covers are ideal for partial panel practice or to cover an actual failed instrument. These covers are reusable and are furnished in a package of 5 covers P/N 10-00066 .....



## INSTRUMENT PANEL COVER-UPS FOR PFD / MFD

Cover ups for PFD and MFD screens for glass cockpit training. For partial panel practice & actual instrument failures. \* Reusable, 3 per pack \* "Cling" type plastic covers, with lift tab \* Zip lock plastic bag for convenient storage. P/N 13-06116 .....



## INSTRUMENT HOLE COVER PLATES

Use these plates to attractively cover unused panel cut-outs. Aluminum and plastic plates have raised center, which brings the plug face about even with the front surface of the panel.

- Plastic plate for 2-1/4" Cut-Out..... P/N 10-06900 .....
- Plastic plate for 3-1/8" Cut-Out..... P/N 10-07000 .....
- Plastic plate for standard altimeter hole..... P/N 10-07100 .....
- Aluminum plate for 2-1/4"hole, black wrinkle ..... P/N 10-00427 .....
- Aluminum plate for 2-1/4"hole, no paint..... P/N 10-00428 .....
- Aluminum plate for 3-1/8"hole, black wrinkle ..... P/N 10-00429 .....
- Aluminum plate for 3-1/8"hole, no paint..... P/N 10-00430 .....
- Plastic plate for 3ATI hole, black fire retardant... P/N 10-00433 .....
- Aluminum plate for 3ATI hole, black wrinkle..... P/N 10-00434 .....
- Aluminum plate for 3ATI hole, no paint..... P/N 10-00436 .....
- Plastic plate for half ATI hole, black fire resist... P/N 10-00437 .....



## INSTRUMENT PANEL LAYOUT TEMPLATE

Use this template for precise positioning of instrument holes and mounting screw holes in panel. For both 2-1/4" & 3-1/8" dia. instruments. With transfer punch for marking screw hole centers and instructions. P/N 12-14600 .....

