

# GYROS – STANDBY VACUUM SYSTEMS



## MINI 2-INCH ELECTRIC ATTITUDE INDICATORS

The Mini Gyro offers big features in a compact package. At half the cost of the competition, the Mini Gyro not only saves panel space, but also time and money. An ideal standby instrument, this TSO-approved indicator has 10-32 volt DC operation and is an attractive alternative to vacuum systems.

It features unique LED lighting selectable to 5, 14 or 28 volts. Remote emergency power supply available for this indicator (P/N 11-05540).

Standard airplane display ..... P/N 10-01721 .....  
 Delta airplane display ..... P/N 10-01722 .....  
 Emergency Power Supply ..... P/N 11-05540 .....



## VOLT & VAC ALERT

A gyro instrument can start giving false information in less than one minute, and it is important that the pilot become instantly aware of a vacuum loss. The Volt & Vac Alert monitors instrument vacuum and electrical voltage. Should either fall below set values, the system will provide an instantly recognizable voice warning directly in the pilots headset, and then flash a light positioned within the normal gyro scan area, providing him with instant recognition of a problem. The Volt & Vac Alert is STC - PMA approved P/N 10-00393 .....

## RAPCO STANDBY PNEUMATIC CLUTCH REPLACEMENTS



400 Series replacement clutches for Rapco standby pneumatic systems are available in 12 volt or 24 volt. They can be purchased either new or as an overhauled exchange. A core charge will be added to the purchase price of exchange units and

refunded with the return of a repairable 400 series core.

Description	Description	Price
400 NEW clutch, 12V	10-02656	.
400 NEW clutch, 24V	10-02656-1	.
400 EXC Clutch, 12V	10-23949	.
Remanufactured exchange		
400 EXC Clutch, 24V	10-23949-1	.
Remanufactured exchange		

## VACUUM WARNING INDICATOR



The Precise Flight Vacuum Warning Indicator will provide the pilot with immediate warning of failure of the vacuum system, providing valuable time prior to gyro failure. An inexpensive system that can alert the IFR pilot immediately in the event of vacuum failure.

P/N 11-02205 .....

## VENTURI

**2" VENTURI** - This small aluminum venturi provides 2" Hg vacuum for operating turn/bank indicator. Has 1/8" NPT port. Use 1/4" tubing for hookup. Wt. 3.5 oz. P/N 15045 .....



**4" VENTURI** - This venturi develops 4" Hg suction from double-throat venturi and 10" long horn. Used to operate a directional gyro or gyro horizon. When operating a directional gyro there is sufficient capacity to also operate a turn/bank. All aluminum construction. May require a suction regulator. Wt. 0.9 lb. .... P/N 15050 .....



**9" VENTURI** - This "super venturi" is similar in appearance to the 4" venturi but with redesigned air passages and a recontoured, long (11-1/4") horn. It pulls enough vacuum to operate a gyro horizon, directional gyro and a turn/bank. Must be used with a suction regulator. P/N15052 .....



## SIGMA TEK CAGEABLE ATTITUDE GYROS



Short stops (engine off less than twelve minutes) and some aerobatic maneuvers may cause your attitude gyro to tumble or precess from its vertical reference. When the rotor is spinning, the gyros normal erection system is slow and can take several minutes to correct a large erection error. This non-locking caging feature allows the pilot to quickly align the gyro display and rotor to gyro case reference. The attitude gyro should only be caged for quick alignment during straight and level VFR flight using well defined earth horizon for reference

or prior to take off. **All lighted gyros must order tray separately.**

P/N	DESCRIPTION	PRICE
5000B	Standard Gyro, Unlighted (non-cageable)	.
5000B-F	Standard Gyro w/Vacuum Failure Flag (non-cageable)	.
5000M-1	With Caging Knob, 0° Panel Tilt	.
5000M	With Caging Knob, 0° Panel Tilt, Lighted	.
5000M-2	With Caging Knob, 8° Panel Tilt	.
5000M-5	With Caging Knob, 8° Panel Tilt, Lighted	.
5000B-46	With Inclinator, 0° Panel Tilt	.
5000B-45	With Inclinator, 0° Panel Tilt, Lighted	.
5000B-51	With Inclinator, 8° Panel Tilt	.
5000B-53	With Inclinator, 8° Panel Tilt, Lighted	.
5000M-3	With Caging & Inclinator, 0° Panel Tilt	.
5000M-6	With Caging & Inclinator, 0° Panel Tilt, Lighted	.
5000M-4	With Caging & Inclinator, 8° Panel Tilt	.
5000M-7	With Caging & Inclinator, 8° Panel Tilt, Lighted	.



## VAC-2 VACUUM PUMP ADAPTER

The revolutionary VAC-2 adapter provides a direct replacement for the Lycoming vacuum pump pad adapter casting. The VAC-2 design provides a standard vacuum pump pad with provision for inverted oil pick-ups. Normally there is a T fitting mounted on the firewall that supplies the inverted oil. For many engines when this T fitting is used, the oil pressure will drop down into the yellow on the oil pressure gauge for three to five seconds when inverted. On some aircraft this drop in oil pressure will cause the prop to cycle

because of lack of oil pressure. With the VAC-2 adapter installed you do not have this drop in oil pressure. By using the VAC-2 adapter you have (1) the best inverted oil pickup, (2) a stock vacuum pump pad adapter. Used in place of Christen "T" fitting.

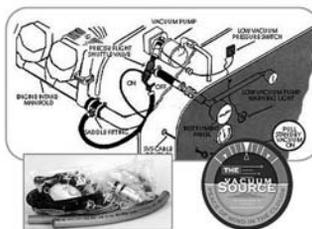
The VAC-2 comes complete with oil seal installed, gaskets, and MS 20822-10D fitting. Just slip vacuum pump gear assembly and washer into VAC-2 and install on engine. The standard Lycoming vacuum pump gear assembly and washer will fit into the B & C adapter. (Gear and washer shown are not included.)

VAC-2-4 for 4 Cylinder Engines ..... P/N 07-06790 .....

VAC-2-6 for 6 Cylinder Engines ..... P/N 07-06795 .....



## STANDBY VACUUM SYSTEM SVS V



Manufactured by Precise Flight, Inc., this Standby Vacuum System, SVS V, is a new solution to the old problem of in-flight vacuum pump failures. It operates on a differential between manifold pressure and ambient pressure which is directed through a shuttle valve system to drive the flight instruments. When the vacuum pump fails, the pilot simply turns on the SVS system and adjusts

engine power settings while observing the instrument suction gauge to obtain adequate differential to operate the instruments. Kit includes low vacuum light and installs in 2-4 hours. STC'd for most aircraft. This kit can provide peace of mind on all flights and, if that pump ever fails, can be a real life saver. P/N 10-00400 .....

## AERO SAFE GUARDIAN I STANDBY VACUUM/PRESSURE SYSTEMS



The Aero Safe Guardian I Standby/ Pressure system is designed to provide the pilot with the most reliable standby source of instrument air available for single engine aircraft. STC'd for most Bellanca, Beech, Cessna, and Piper single engine aircraft. Specify aircraft make, model, year, and serial number when ordering.

Vacuum system ..... P/N 10-00267 .....  
 Pressure system ..... P/N 10-00268 .....