

Regulator Adjustment

RAPCO FAA-PMA Regulators come factory preset to a specific suction value for each part number. Each unit is put through a series of tests on a calibrated test bench to assure that it meets the required standards. If the regulator needs adjustment it may be due to other problems in the system.

If after installing a new regulator, or anytime the aircraft suction gauge reads outside of its normal operating range, first consult the aircraft maintenance manual to confirm that all service instructions and service letters have been complied with. This includes replacing all pneumatic filters. Replace all hoses every six years. Also test or replace all necessary pneumatic components as specified. Valves, manifolds and regulators should be tested at five years from date of manufacturer and then every year thereafter until ten years, replace at ten years. Dry air pumps should be replaced every six years. In some instances suction will drop off towards the end of a pump's service life. Suction gauge calibration should be tested. Be aware that modifications to the system can result in problems. If all service instructions have been complied with and there is still a problem, check for leaks or malfunctioning components in the system. The Airborne 343 Test Kit can be helpful in doing so.

If you have completed the above and still feel that it is necessary to adjust the regulator be sure to do so in accordance with the following procedure: Push back the tabs on the bottom of the regulator that lock the T handle of the adjusting screw in place.

CAUTION: Turning the T handle adjusting screw more than two (2) full turns in either direction can damage the regulator. If adjusting screw is turned to the point of binding while turning it in (clockwise) or becomes disengaged while turning it out (counter clockwise) be aware that the warranty will be void. Make small adjustments of not more than one quarter ($\frac{1}{4}$) turn at a time, turn the T handle clockwise to increase vacuum, or counter clockwise to decrease vacuum. Be sure to reset the lock tabs once you have finished.

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