

Technical Data Sheet		
B-00392-1	14V MULTI ENGINE ALTERNATOR CONTROL	
Duty Voltage Factory Set To Load Current Load Balance Balance Information Authority of Balance Circuit Over-Voltage Trip Point Over-Voltage Trip Time Alternator Inop. Indicator Alternator Inop. Sensing Point Weight Dimensions	Continuous PWM 14.0V 5A Max. Within 10% of Alternator Rating From 50mV (Full Load) Shunt, Each Alternator Output 1V Maximum Rise Of Regulator Voltage Setting 16.0V 0.5V above Calibration 3.0V above Calibration 0.15A Max. 5.25V 0.5lb. Max. 23/4"L x 55/8"W x 2"H	
PINOUT	FUNCTION	
Red Blue Brown Gray Green Yellow Orange Black Violet	+14V Field Alternator Inop. Sense (AUX Terminal) Alternator Inop. Indicator Equalizer - Shunt + Shunt Ground Voltage Regulator Sense	
OPERATION NOTES	DESCRIPTION	
Note 1: Note 2: Note 3:	This unit design for fuselage mounting. To be protected from water, except condensation. Mount on a metallic airframe member for secondary ground. Alternator Inop. Will not warn if Alternator C/B is open and alternator is still operating. A short from ALT+ to FIELD+ of either machine will result in uncontrolled overvoltage on the main bus which can be removed only by opening Alternator C/B of the faulted machine. Internal	
Note 4:	fuse in B-00392-1 will open. In a split bus system, opening of bus tie must also result in opening of the equalizer in order to maintain normal individual operation of controls.	
Note 5:	Overvoltage protection is incorporated which latches off regulator output following an overvoltage event	
Note 6:	This unit is protected against damage due to output (Field) short to ground. A short will latch off	
Note 6: Note 7:	This unit is protected against damage due to output (Field) short to ground. A short will latch off the output until reset. Reset of latch off caused by either overvoltage or shorted output is accomplished by momentary turn off of 14/V supply.	
	the output until reset.	
Note 7:	the output until reset. Reset of latch off caused by either overvoltage or shorted output is accomplished by momentary turn off of 14V supply. In an operating system (2 units with equalizer connection), an excess current in one shunt due to an overvoltage condition in that side will cause the opposite side overvoltage sensing to be desensitized so that the side causing the overvoltage will be selectively tripped. Excess shunt current then falling to zero will permit the normal side overvoltage sensitivity to restore to its	

trip calibration point).

Note 11:

elevated to the value provided for selective trip action (approximately 2V above the overvoltage

When used with an operating alternator, never bypass the regulator (Bus to Field) as a means of

checking alternator integrity or the overvoltage protection circuit action.

lote 12:	Caution: for each control the voltage source for regulator input	and sense terminal must be the
	load terminal of the related shunt, with no means provided whi	ch can result in any other source
	of voltage being applied to these terminals. A dangerous conc the control may result from not observing this requirement.	lition with extensive damage to
PART NUMBER	AIRCRAFT ELIGIBILITY	
B-00392-1	Piper PA-44-180, PA-44-180T	
585-400		