

Technical Data Sheet

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B-00372-1	28V MULTI ENGINE ALTERNATOR CONTROL
Duty Voltage Factory Set To Load Current Regulation Load Balance Balance Information Authority of Balance Circuit Over-Voltage Trip Point Over-Voltage Trip Time Line Contactor Current Weight Dimensions	Continuous PWM 28.5V 4A Max. 0.5V No Load to Full Load Within 10% of Alternator Rating From 50mV (Full Load) Shunt, Each Alternator Output 1V Maximum Rise Of Regulator Voltage Setting 32.0V 1.0V above Calibration, 0.8 seconds 5.0V above Calibration, 0.29 seconds 1.0A Max. 0.5lb. Max. 23/4"L x 55/8"W x 2"H
PINOUT	FUNCTION
AMP 206705-2 Connector Red Pin 1 Blue Pin 2 Pin 3 Violet Pin 4 White Pin 5 Yellow Pin 6 Orange Pin 7 Green Pin 8 Black Pin 9	Mates with AMP 206966-1 Shell, AMP 66103-2 Pins +28V Field N/C Voltage Regulator Sense Contactor - Shunt + Shunt Equalizer Ground
OPERATION NOTES	DESCRIPTION
OPERATION NOTES Note 1: Note 2: Note 3:	This unit designed 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 protective device 'A' 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 protective device 'A' of the faulted machine.
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Note 1: Note 2: Note 3: Note 4: Note 5:	This unit designed 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 protective device 'A' 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 protective device 'A' of the faulted machine. Internal fuse in B-00372-1 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. Overvoltage protection is incorporated which latches off regulator output following an overvoltage event 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
Note 1: Note 2: Note 3: Note 4: Note 5: Note 6:	This unit designed 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 protective device 'A' 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 protective device 'A' of the faulted machine. Internal fuse in B-00372-1 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. Overvoltage protection is incorporated which latches off regulator output following an overvoltage event 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 28V 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
Note 1: Note 2: Note 3: Note 4: Note 5: Note 6: Note 7:	This unit designed 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 protective device 'A' 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 protective device 'A' of the faulted machine. Internal fuse in B-00372-1 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. Overvoltage protection is incorporated which latches off regulator output following an overvoltage event 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 28V 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

Note 44.	When werd with an appreting of the master, according to the many later (Due to Field) and appreciate
Note 11:	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.
Note 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 which can result in any other source of voltage being applied to these terminals. A dangerous condition with extensive damage to the control may result from not observing this requirement.
Note 13:	Unit chassis is internally connected to black ground.
Note 14: Note 15:	Contactor output is internally protected from damage if it is shorted to ground. Shunt leads of orange and yellow circuits of B-00372-1 should be twisted pair and run physically separated from other circuits where possible.
PART NUMBER	AIRCRAFT ELIGIBILITY
B-00372-1 102-384038-1	Hawker Beechcraft: D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, G58, 95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42), 95-C55, 95-C55A

NOTE: Installer must cross-check eligibility with applicable technical data.

Data Sheet B-00372-1.A