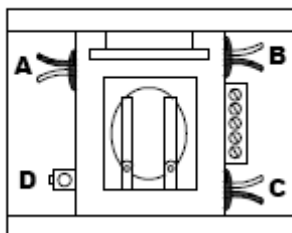


ATS 301 TECHNICAL BULLETIN

Parallax Power Supply has developed the ATS 301 line / generator switch in an on-going effort to bring new, innovative, reliable and cost effective products to the marketplace. As a result the ATS 301 was designed in such a manner as to be able to replace all of 30 AMP line / generator switches that are currently produced by Parallax Power Supply. Other key features of the ATS 301 include; Significant size and weight reduction in comparison to the ATS 30, Printed Circuit Board design that eliminates the possibility of improperly torqued wiring terminations at the time the switch is manufactured, and the use of a shrouded “ice-cube” style relay to help prevent the intrusion of foreign material to the relay contacts or swinger arm. Please review the comparison chart on page 3 to see other changes and enhancements that the ATS 301 has to offer. We understand that with change, sometimes there is inconvenience, and we have tried to anticipate that, and have determined that in some cases when an ATS 30 needs to be replaced by an ATS 301 the existing wiring may not be long enough to reach all of the field wiring terminals inside the ATS 301. In most cases this problem can be solved by positioning the ATS 301 in such a manner so that the shore-line and generator conductors can be routed into the ATS 301 and then extending the load conductors by using a junction box and a short length of Romex to allow load side entry into the ATS 301. (See diagram on Pg 2) For those situations where the above remedy will not work, we have provided existing wiring layouts for the ATS 30 and ATS 301 in order for you to determine the best wiring solution for your particular needs in the event you come across this circumstance. If after reviewing these documents and still have additional questions please contact Technical Support at: 1-800-443-4859 or e-mail: techsupport@parallaxpower.com

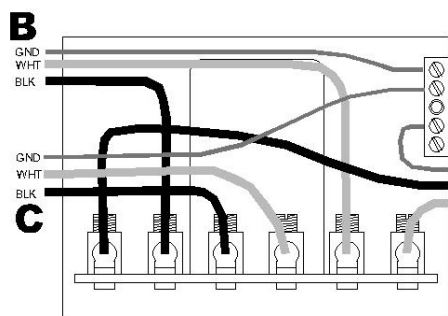
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ATS 30 WIRING DIAGRAM



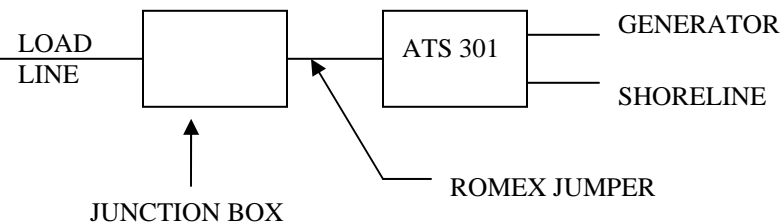
- A - LOAD: 120 VAC, 30 A MAX.**
- B - GENERATOR INPUT: 120 VAC**
- C - SHORELINE INPUT: 120 VAC**
- D - BONDED EQUIPMENT GND.
CU 6-14; COPPER WIRE ONLY
TORQUE RATING: 35 IN. LBS.**

ATS 301 WIRING DIAGRAM



- A - LOAD: 120VAC, 30A MAX
 - B - GENERATOR INPUT: 120VAC
 - C - SHORLINE INPUT: 120VAC
 - D - BONDED EQUIPMENT GND.
CU 6-14; COPPER WIRE ONLY.
- | TERMINAL TORQUE RATINGS: | | |
|--------------------------|----|-------------|
| AWG | CU | INCH-POUNDS |
| 10-14 | | 35 |
| 8 | | 40 |
| 4-6 | | 45 |
| 2 | | 50 |

SUGGESTED WORK AROUND



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ATS 30 AND ATS 301 COMPARISON CHART			
	ATS (OPTION A)	ATS 30	ATS 301
LENGTH	4"	8-5/8"	6"
WIDTH	4-3/4"	4-1/8"	4-1/8"
HEIGHT	6"	5-1/8"	4-7/16"
WEIGHT	3 LBS	4 LBS	3.5 LBS
MOUNTABLE TO 6300, 7300 SERIES	X		X
MOUNTABLE TO 80 SERIES	X		X
WIRELESS PCB CONSTRUCTION			X
FIELD INSTALLATION TERMINALS			X
LEADED WIRENUT FIELD INSTALATION	X	X	
DC RELAY	X	X	X
SHROUDED RELAY			X

Additional Technical Data:

- The relay used in the ATS 301 was cycle tested by Parallax Power Supply over 20,000 times at 120VAC 60Hz 30Amp load without failure before it was chosen.
- Each contact set is rated for 120VAC 40Amps. This is 30% more capacity than the system's main breaker. This will allow the ATS 301 to handle current spikes without fatigue or failure.
- New electronic timing at circuitry design consistently operates in a voltage range of 100VAC to 140VAC between 45Hz and 65Hz allowing the ATS 301 to switch even when voltage conditions are poor (***Please note that although the ATS 301 may be capable of operating in these severe conditions other equipment and appliances may be damaged by these voltage extremes***). The circuitry is also "inverter friendly" allowing proper operation with modified sine wave inputs created from some inverters and generators.

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