



Powering the RV Adventure

**ATS 301 Automatic Line/Generator Transfer Switch
OWNER OPERATION GUIDE**

Visit our website at www.parallaxpower.com

Congratulations on the purchase of your new Parallax Power Supply product!

The Parallax ATS 301 automatic line/generator transfer switch has been designed to give safe, reliable, and maintenance-free service.

We hope it provides many years of enjoyment.



Listed for RV use in the U.S.A. and Canada

GENERAL INFORMATION

The ATS 301 is designed to switch the on-board 120-volt appliances to an alternate 120VAC power source such as an inverter or generator when the alternate power source is energized.

The ATS 301 features include a rugged galvanized steel enclosure, solid state printed circuit board construction, heavy duty PCB mounted relay, a 20-30 second generator time delay, time delay Enable/Disable, and compression lug wiring terminals with 5/32" hex drive set screws for ease of wiring and safe, reliable operation.

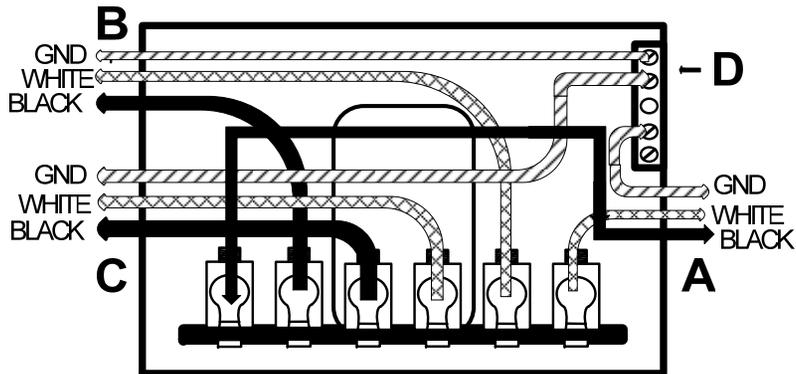
The default power source is the shore line or utility power input "side" of the switch.

The alternate power source or "Generator" input side of the switch will "take command" of the switch when the alternate source is energized.

Refer installation and servicing of this product to qualified service personnel. Technical or service information is provided solely for use by licensed electricians and certified RV technicians. No endorsement of technical expertise is expressed and/or implied. User assumes all liabilities arising from use of this information.

WIRING INSTRUCTIONS

WARNING: RISK OF ELECTRICAL SHOCK OR BURNS.



- A - COACH: 120VAC, 30A MAX
Output to loads or breaker panel
- B - GEN INPUT 120VAC
- C - LINE INPUT 120VAC

ALL CONNECTIONS MUST MEET TORQUE SPECIFICATIONS SHOWN ON THE WIRING LABEL LOCATED ON THE ATS 301 INSIDE COVER OR AS LISTED BELOW.

Terminal Torque Specifications

BONDED EQUIPMENT GND. CU 6-14; COPPER WIRE ONLY.
TORQUE RATING: 35 IN. LBS.

ALL OTHER TERMINALS TORQUE RATINGS:

<u>AWG CU</u>	<u>INCH-POUNDS</u>
10 - 14	35
8	40
6	45

FIELD WIRING CONDUCTORS - INSULATION RATING 90°C, MINIMUM.

COPPER WIRE ONLY.

WIRE SIZE OF FIELD WIRING CONDUCTORS- USE AMPACITY OF WIRE RATED AT 75 °C. MAXIMUM.

WARNING: RISK OF ELECTRICAL SHOCK OR BURNS.

No user serviceable parts inside.

Refer installation and servicing to qualified service personnel

WARRANTY INFORMATION

Reference the enclosed *Parallax Power Supply Warranty Policy* or download the policy at: <http://www.parallaxpower.com/warranty>

Parallax Power Supply

Phone: (800) 443-4859 ▪ Fax: (765) 608-5235

MOUNTING LOCATION

The ATS 301 is designed for indoor use only.

DO NOT mount in harsh environments; avoid areas where high levels of dust, dirt, or moisture may occur.

DO NOT mount in the same compartment as batteries or other flammable materials such as gasoline.

The ATS 301 is designed for horizontal mounting to a deck or floor. Vertical mounting may be used if conductor entry into the switch is horizontal to the floor.

DO NOT mount upside down.

Leave adequate room for routing the shore line, generator and load (breaker panel) conductors. Use appropriately rated conductors for field installed wiring. Install strain relief fittings on all field installed wiring to provide adequate wire protection and support. Combo knockouts are provided on each side for conduit trade sizes ½" and ¾".

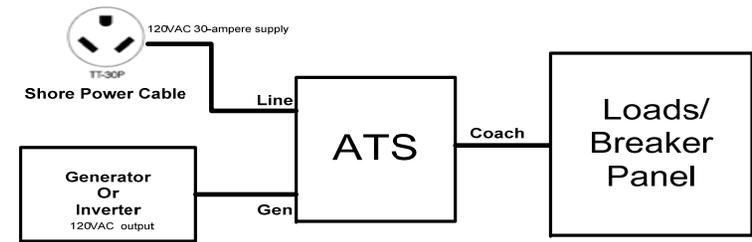
SPECIFICATIONS (Subject to change without prior notice)

Electrical rating: 120 volt, 30 amps
Maximum generator: 3,600 watts
Command source: generator

Dimensions: ATS 301
4.75" wide, 6.25" tall, 4.00" deep

Dimensions: ATS 301 w/ Deck-mounting plate
4.75" wide, 4.125" tall, 6.25" long
Mtg. Baseplate – 6.25" long, 6.00" wide
Weight: 3.75 pounds (all models)

Not ignition protected



FROM SHORE LINE

To operate appliances from shore line power, plug in the shore line cable to the supply pedestal at the campground or dock. The ATS automatically connects all AC load panel appliances to shore line power.

FROM INVERTER OR GENERATOR

To operate appliances from the alternate 120VAC power source, energize (power on) the alternate power source connected to the ATS generator input terminals.

When using the ATS 301 with a listed RV generator, a time delay is usually needed. With time delay enabled, a 20-25 second time delay is imposed to let the generator power stabilize before the ATS will transfer power from the alternate source to the ATS 301 load output terminals.

SET TIMER JUMPER

A shorting jumper at J1 provides the capability to disable the time delay in the ATS 301 for use with alternate supply sources (such as an inverter) that do not need a time delay period.

The default position for the shorting jumper is installed across "Timer Enable".

To disable timer, move the shorting jumper so that it is installed across the "Timer Disable" pins on J1.

