

Accessory 11BG Kit Installation for ASCO® Series 300 Automatic Transfer Switches and some* ASCO® Series 300L Automatic Power Transfer Load Centers

*** Can be installed on only this Series 300L Automatic Power Transfer Load Center**

Check the BOM number listed in *PRODUCT DATA* area of the nameplate.

BOM number	Catalog Number
769561	D300L42200F1XC with Acc. 96CP in aluminum outdoor enclosure

Accessory 11BG module includes a programmable engine– generator exerciser and power source availability contacts. It can be added to a Series 300 Automatic Transfer Switch (ATS) that has a Group 1 Controller. If an existing engine exerciser (Acc. 11CD) is already installed, it must be disconnected first.

The Accessory 11BG module mounts directly behind the Series 300 ATS operator interface on the inside of the enclosure door. The module connects to the Series 300 ATS operator interface board and Group 1 controller.

Kits K629830 & K749999 include the Acc. 11BG module, mounting hardware, and all necessary wiring.

Tools required: 1/4", 5/16" nutdrivers,
small blade screwdriver
your Series 300 ATS Operator's Manual
for setting the DIP switches

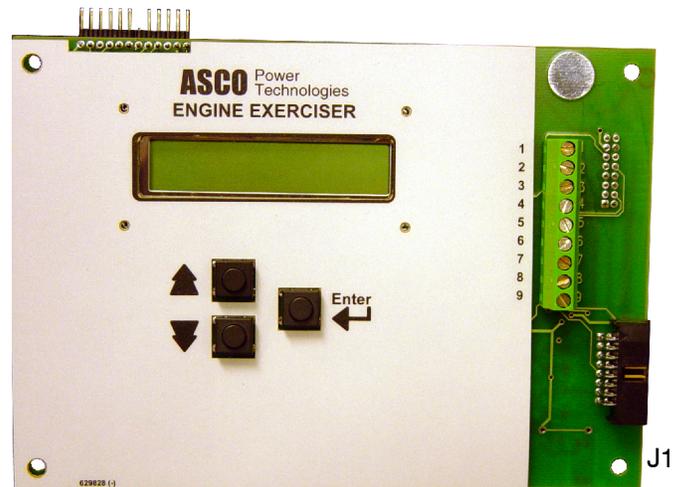


Figure 1. Accessory 11BG Module in kits.



⚠ DANGER

ELECTROCUTION – FLASH HAZARD
Do not work on the transfer switch until both the utility and generator are off. Turn OFF both circuit breakers.

Module Installation – Figures 2 & 3

1. With all power OFF, open the enclosure door. Locate the operator interface (membrane controls) mounted on the inside of the enclosure door. Use a 5/16” nutdriver to remove (counterclockwise) the four hex nuts from the corners of the operator interface. Do not remove the operator interface board (Figures 2 & 3).
2. Install (clockwise) four standoffs (from the kit) onto the four studs and tighten them with a 1/4” nutdriver.
3. Install the Acc. 11BG module on top of the operator interface so that four standoffs fit through the corner holes. Then install (clockwise) four 6–32 hex nuts (from the kit) to secure the assembly. Tighten the nuts.

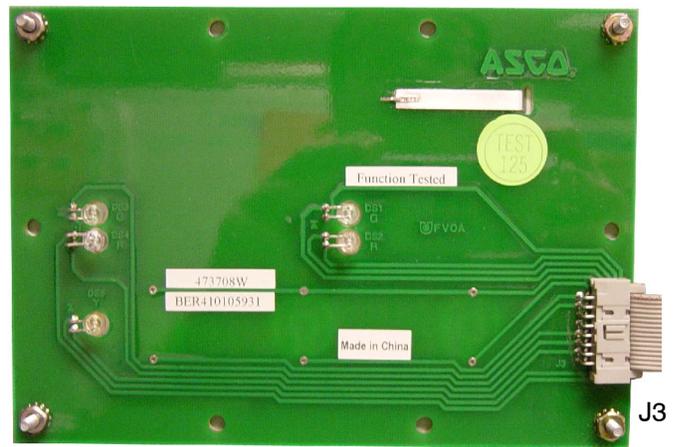


Figure 2. Series 300 ATS operator Interface board mounted on the enclosure door (back view).

Connecting the Module – Figures 1, 2, 4

1. With all power OFF, locate the two ribbon cables and note direction and orientation of each cable.
2. Unplug the ribbon cable (coming from the Controller) from the operator interface (J3 lower right side) and reconnect it (same orientation) to the Acc. 11BG module (J1 lower right side). See Figures 1, 2, & 4.
3. Connect the new ribbon cable (coming from the Acc. 11BG module upper right side) to the operator interface (J3 lower right side) with the same orientation as the original cable that was moved. See Figures 2 & 4.
4. Strip the insulation from both ends of the #16 gauge white wire (from the kit). Connect this prepared wire between Acc. 11BG module terminal 9 (right side) and the Group 1 Controller terminal 4 (bottom left). Figure 4.

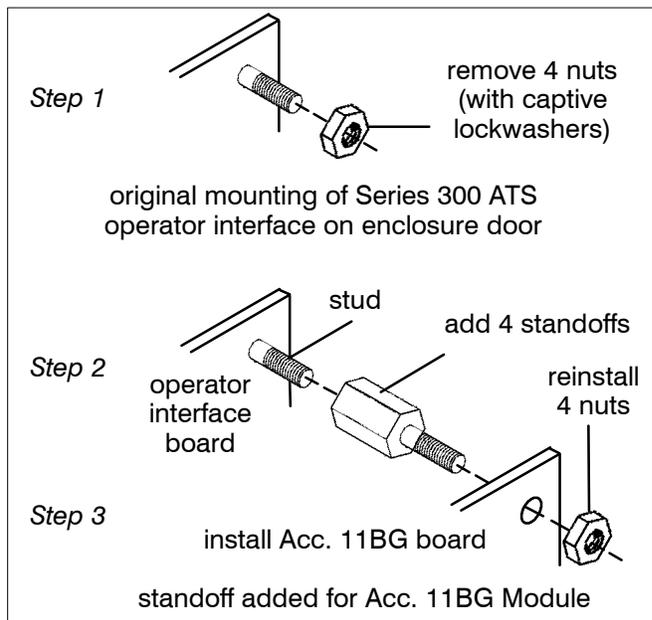


Figure 3. Module installation hardware.

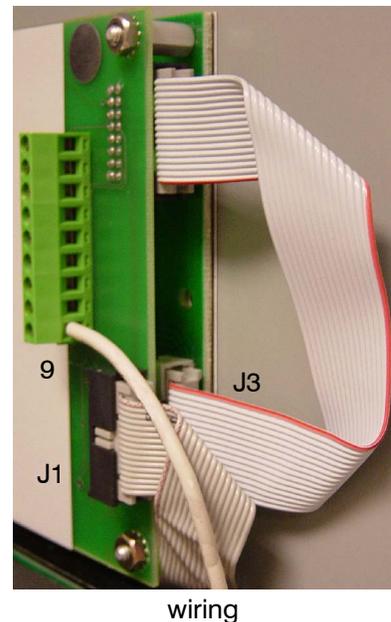
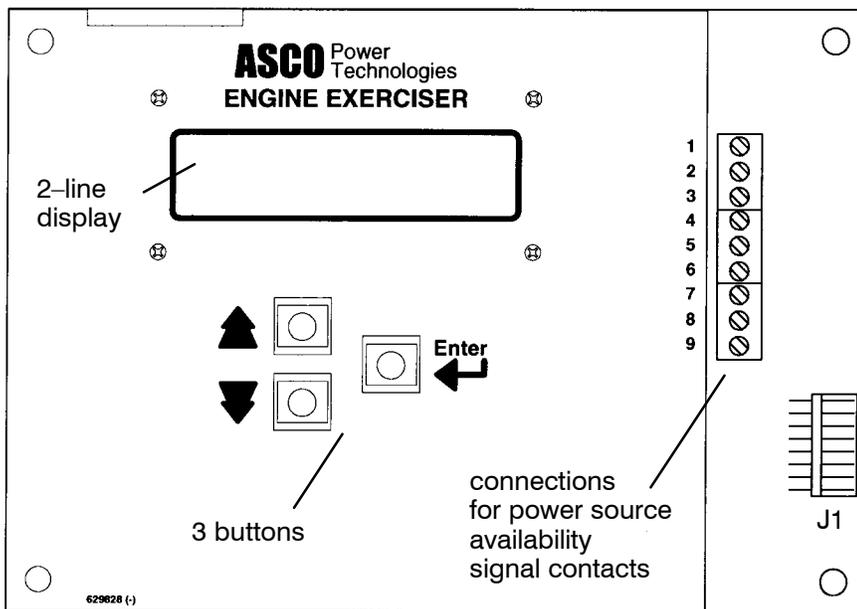


Figure 4. Accessory 11BG module (mounted behind operator interface and connected to the controller) includes power source availability signal contacts and a programmable engine exerciser.

Power Source Availability Signal Contacts

The module provides one Form C contact each for the normal and emergency power sources to signal the acceptability of the source as sensed by the controller. The signal contacts operate in conjunction with the *Source Available* lights on the operator interface. Field wiring terminals are provided as shown in Figure 5 and the wiring diagram.

Contact ratings:

2 amps @ 30 Vdc, 0.5 amp. @ 125 Vac resistive

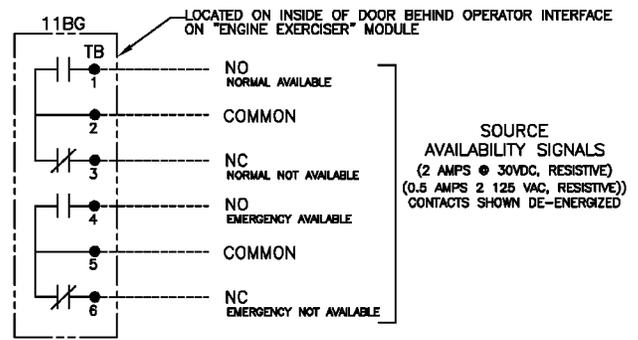


Figure 5. Power source availability signal contacts.

Programmable Engine–Generator Exerciser

Note: Refer to your Series 300 ATS Operator's Manual to set DIP switches S1 & S2 in the Group 1 Controller.

A backup battery in the Series 300 ATS Group 1 Controller (see Operator's Manual, Sections 4 and 5) must be turned on to maintain the settings and to allow programming with the normal and emergency power sources turned off.

The Acc. 11BG module includes a programmable generator exerciser that provides for weekly or biweekly operation. The exerciser may have to be turned on (enabled) by setting S1 DIP switch actuator 7 to OFF (left position), and S2 DIP switch actuator 5 to OFF (left position).

The programmable engine–generator exerciser incorporates a 7–day or 14–day time base. Proper Group 1 Controller settings must be made to determine whether or not the test will be done with or without load transfer (S1 DIP switch actuator 8).

See next page for instructions on setting the exerciser.

S1 DIP Switch Settings in Series 300 ATS Group 1 Controller

Programmable Exerciser Function	ACTUATORS 7 & 8		
	OFF	ON	
Enabled & Exercise without Load	Actuator 7 OFF	<input checked="" type="checkbox"/> <input type="checkbox"/>	EXER ACTV
	Actuator 8 OFF	<input checked="" type="checkbox"/> <input type="checkbox"/>	LOAD
Enabled & Exercise with Load	Actuator 7 OFF	<input checked="" type="checkbox"/> <input type="checkbox"/>	EXER ACTV
	Actuator 8 ON	<input type="checkbox"/> <input checked="" type="checkbox"/>	LOAD

S2 DIP Switch Settings in Series 300 ATS Group 1 Controller

Programmable Exerciser Function	ACTUATOR 5		
	OFF	ON	
Enabled	Actuator 5 OFF	<input checked="" type="checkbox"/> <input type="checkbox"/>	EXT EXER
Disabled	Actuator 5 ON	<input type="checkbox"/> <input checked="" type="checkbox"/>	EXT EXER

Shaded DIP switches are standard factory settings.

Programmable Engine Exerciser Settings

Fill in your settings for future reference

Weekly or Bi-weekly	Day of Week	Start Time	Run Time
Every = weekly Alt = bi-weekly	Sun through Sat	0 – 23 hour 0 – 59 minute	0 – 23 hour 0 – 59 minute 30 minutes is the default setting

Date exerciser was set _____

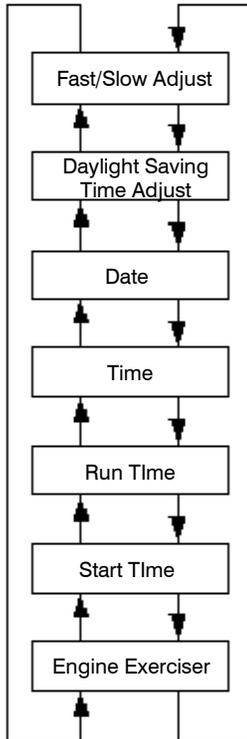
How to Set Optional Programmable Engine Exerciser (part of Acc. 11BG module)

⚠ DANGER

Hazardous voltage capable of causing shock, burns, or death is used in this transfer switch. Deenergize both Normal & Emergency power sources before programming the exerciser.

Navigating the Menu

Use the UP and DOWN arrow keys to move through the displays.



Changing the Parameters

Use the UP and DOWN arrow keys to move through the displays to the parameter to be changed. Push the ENTER key to start the editing process. The first parameter will flash. Use the UP and DOWN arrow keys to adjust the parameter to the desired value and press the ENTER key to save the value. The next parameter will now flash. Repeat the process until each parameter is properly configured.

Engine Exerciser Display

The Engine Exerciser Display shows the status of the engine exerciser. When the unit is shipped from the factory the programmable engine exerciser is “Disabled” and must be set to “Enabled” by the customer. When the engine exerciser is running, this display will count down the remaining time until the end of the exercise period.

Start Time Display

The Start Time Display shows the engine exerciser start time. There are four parameters that determine the start time:

- weekly (“Every”) or bi-weekly (“Alt”) operation
- day of week (“Sun” through “Sat”)
- start hour (0 through 23)
- start minutes (0 through 59)

For example, if the user wants the exerciser to run every other Saturday at 3 PM, the proper configuration would be: “Alt Sat @ 15:00”

NOTE: When choosing bi-weekly operation, the exerciser will always run on the week designated “(1)” on the date display.

Run Time Display

The Run Time Display shows the run time for the engine exerciser. The default setting from the factory is 30 minutes.

Time Display

The Time Display shows the present system time. The format is “hours:minutes:seconds”.

NOTE: During total power outages, power to the accessory is maintained by a battery in the Controller (see page 4-2 of Operator’s Manual). Be sure that the 9-volt alkaline battery is fresh and enabled (jumper in ON position) so that the time and date settings are not lost.

Date Display

The Date Display shows the present system date. The format is “day of week (week) month/day of month/year”.

NOTE: Week is either week 1 or week 2. This is used in conjunction with the bi-weekly timer.

Daylight Savings Time Adjust Display

This display shows whether the automatic daylight saving time adjustment is active. The factory default is “NO”. If enabled, the unit will automatically adjust for daylight saving time at 2 AM on the first Sunday of April and the last Sunday of October.

Fast / Slow Adjust Display

This display shows the automatic fast/slow adjustment value. The factory default is 0. This feature can be used to trim a clock that runs fast or slow. For example, if your clock runs 10 seconds slow per week, change the fast/slow adjust value to “+10” and the unit will automatically add 10 seconds to the clock every week.

NOTE: Adjustments are made Sunday morning at 2 AM. If you want your exerciser period to start at 2 AM on Sunday, you cannot use this feature and the adjustment must be set to 0.