



Electronic Equalize Timer
 S2A-177A Assembly
 Option - 04J

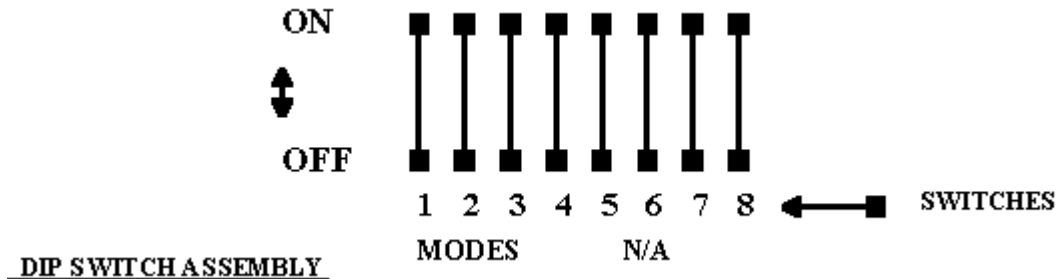
The Equalize Timer assembly is a microprocessor based electronic timer which is capable of being set for six (6) different timer modes and nine (9) equalize cycle timer settings (2,4,8,12,16,24,48,72 and 144 hours).

The equalize timer can be set from a 0-144 hour rotary timer knob on the front door. Select the desired number of hours you wish to equalize the battery and push the equalize switch, the equalize "LED" will light and the unit will equalize the battery. After the equalize cycle is complete the equalize light will diminish and the float light will illuminate. The equalize time cycle can be stopped at any time by pushing the equalize switch.

Note: The Equalize button will initiate or cancel the equalize cycle only when using Mode1, Mode2, or Mode3.

SETTINGS

The "DIP" switches (1-3) located on the p.c. board of the electronic timer are used to adjust the programming for the timer's operational mode. Note: Only use switches 1, 2, and 3 on p.c. board. (4,5,6,7 and 8 are not used)



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MODES

The switches 1, 2, and 3 control the mode of operation. By selecting the switch positions from the table below the mode may be changed.

1	2	3	
on	on	on	= MODE0
off	on	on	= MODE1
on	off	on	= MODE2
off	off	on	= MODE3
on	on	off	= MODE4
off	on	off	= MODE5
on	off	off	= MODE6
off	off	off	= MODE7

MODE0

This is the standard timer mode . If the "PUSH TO EQUALIZE " button is depressed the timer will switch the charger into the equalize mode and the timer will automatically return the charger to the float mode when the equalize cycle is complete. The number of hours of equalize charge is determined by setting the rotary switch. The push-button may be depressed again to cancel the cycle and return the charger to float.

MODE1

This mode of operation automatically starts an equalize cycle every 7 days. The length of this cycle is determined by the rotary switch. After the equalize period the timer will wait for another 7 days and then restart.

MODE2

This mode of operation automatically starts an equalize cycle every 14 days. The length of this cycle is determined by the rotary switch. After the equalize period the timer will wait for another 14 days and then restart.

MODE3

This mode of operation automatically starts an equalize cycle every 30 days. The length of this cycle is determined by the rotary switch. After the equalize period the timer will wait for another 30 days and then restart.

MODE4 (Optional Special Hardware Required)

In this mode of operation arms an equalize cycle when the d.c. battery voltage falls below a preset level (usually 1.8 V/C for lead; 1.17 V/C for nickel/cadium batteries- factory set) for 30 seconds . When the d.c. voltage returns to a value above the nominal voltage (usually 2.0 V/C for lead; 1.2 V/C for nickel/cadium batteries-factory set) the cycle begins. The number of hours of equalize charge is determined by the setting of the rotary switch.

MODE5 (Optional Special Hardware Required)

In this mode of operation an equalize cycle is started each time an a.c. input power failure occurs. A set of a.c. power failure contacts is placed in series with the input d.c. to the timer circuit assembly and each time the circuit is reset by the loss of power an equalize cycle is produced. After the cycle caused by the a.c. power failure , the timer reverts back to the standard mode (MODE0), and the push-button can then be used also to initiate the cycle. The number of hours of equalize charge is determined by setting the rotary switch.

MODE6 & MODE7

These modes are currently not programmed and if selected the timer will automatically revert to MODE0 (standard timer).