

## Burlen 6/12 volt Battery – 12VBATT

### 6-volt connection

To set the batteries to 6-volt supply you need to connect the 2 negative poles together (see Fig 1). Use the short black wire with the piggyback crimp one end and the standard crimp the other end. Make sure the piggyback crimp is on the middle most connector.



Fig. 1.

Then connect the long black wire to the open terminal on the negative side of the battery as in Fig 2.

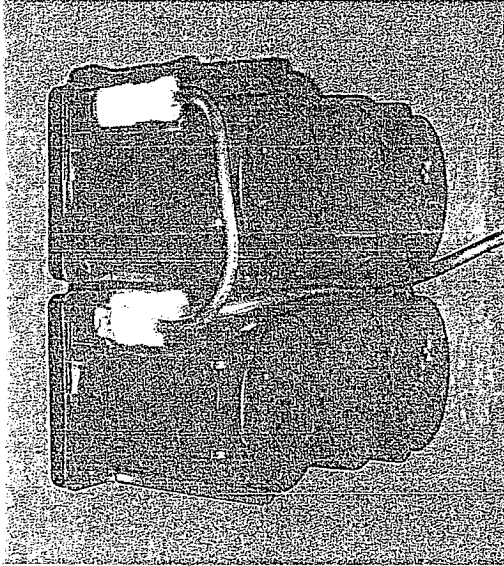


Fig 2.

Now slide the batteries into the battery box making sure that the wires go in the correct place when the battery slides down in (see Fig 1&2).

Now for connecting the positive side of the battery, connect the two positive poles together using the short red wire with the piggyback crimp on one end and the standard crimp the other end. Make sure the piggyback crimp is in the middle As in Fig 3.

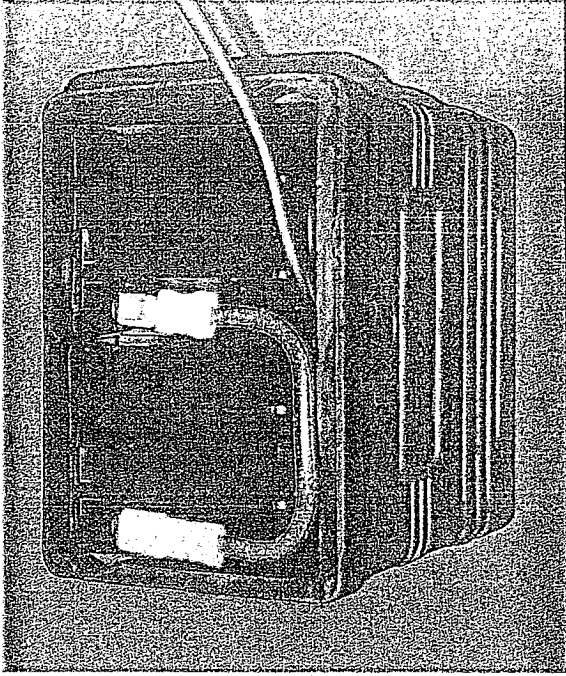


Fig. 3.

Then for the fuse wire this is to be connected to the last remaining piggyback crimp see Fig 4.

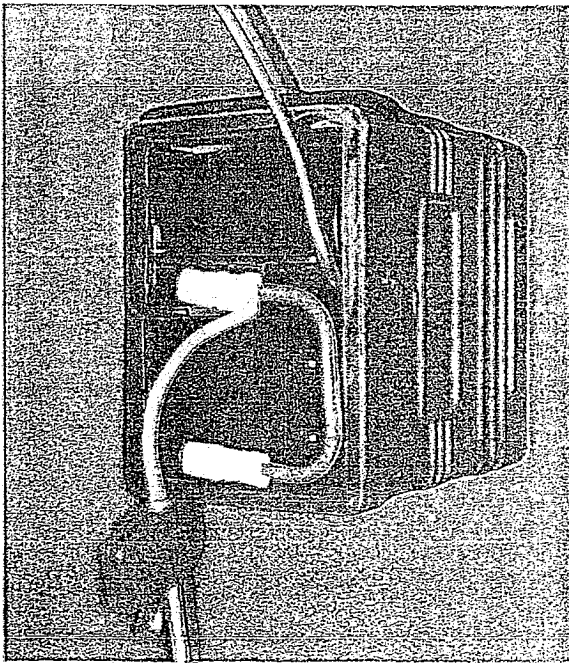


Fig. 4.

**Always remember:**

Never put the fuse in until all of the wiring has been completed. To avoid short circuit and blowing of the fuse or damage to the electric of your vehicle.

Also remember to use the correct fuse for the power supply you are using at the time for example 20amps for 6volt and 10amps for 12volt.

Never connect the negative pole to the positive pole on the same battery. Always leave the end covers on the wires until you are ready to join them to the rest of the wiring of your vehicle and the battery is in place and secure.

**12-volt connection**

To set the battery to 12-volt supply first you have to connect the positive pole of one battery to the negative pole of the other battery see Fig 5.

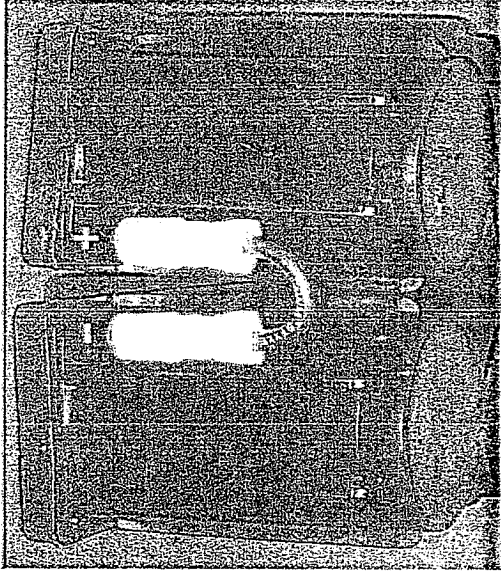


Fig. 5.

Then you can slide the batteries into the box making sure that the wires are in the right place see Fig 5.

Then the long black cable can be connected to the remaining negative pole of the battery as in Fig 6.

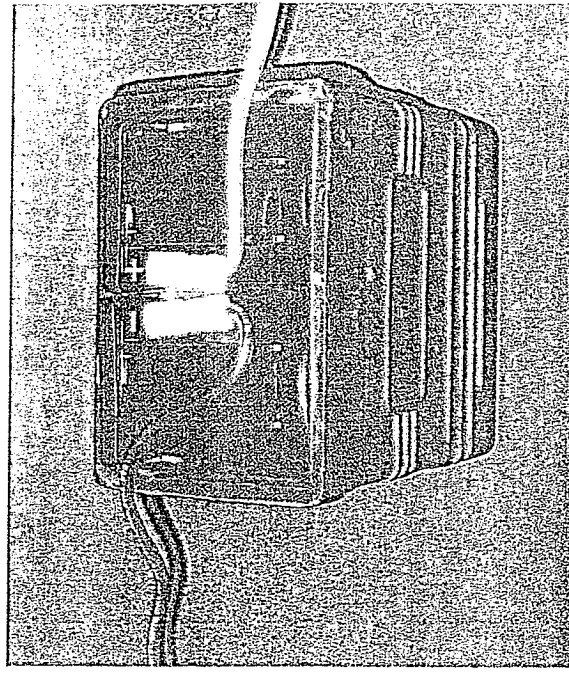


Fig. 6.

Also, the fuse wire can be connected to the positive side of the battery see Fig 6.

**Always remember:**

Never put the fuse in until all of the wiring has been completed, to avoid short circuit and blowing of the fuse or damage to the electric of your vehicle.

Also remember to use the correct fuse for the power supply you are using at the time for example 20amps for 6volt and 10amps for 12volt.

Never connect the negative pole to the positive pole on the same battery. Always leave the end covers on the wires until you are ready to join them to the rest of the wiring of your vehicle and the battery is in place and secure.

**TECHNICAL SPECIFICATIONS AT 25°C**

Capacity to 1.67 vpc (volts per cell) 10 hour rate                      5.00Ah 1 hour rate                         3.99Ah 15 minute rate                    3.40Ah	Maximum recommended storage time before recharge	24 months @ 25°C or 2.0 vpc, whichever is earlier.
Maximum overall dimensions, in. (mm) Length, in.(mm)                 5.47 (138.94) Width, in.(mm)                 2.11 (53.59) Height, in.(mm)                3.02 (76.71) Weight, lb. (kg)                 2.16 (.98)	Safety pressure relief valve	8 psi
Internal resistance of fully charged battery, M/ohms at 25°C    10.0	Atmospheric pressure range	Vacuum to 2 atmospheres
Nominal battery voltage        6.0	Charging, per 6V battery at 25°C Constant Voltage (Cyclic)    7.35 to 7.50 Constant Voltage (Float)     6.81 to 7.05 Constant Current (Cyclic)    1.0A Constant Current (Float)     10mA max. (with appropriate control and regulation) 5mA min.	
Nominal short circuit level for charged battery    600A	Life expectancy (to 80% of rated capacity) Cycle Life, 100% DOD, C/5    300*	
Temperature range Storage                            - 40°C to + 40°C Discharge                        - 40°C to + 40°C Charge                              - 40°C to + 40°C	Float Lift at 25°C, based on accelerated test methods, 6.8 volts constant voltage charge at 25°C ambient temperature	Up to eight (8) years
Mounting	Each battery is equipped with 0.216 in./5.49 mm mounting holes in the cover. The tightening torque for mounting the monobloc is 25 in-lbs. When using 4 mounting bolts, small spacers (washers) 1 to 3 mm thick should be placed between the battery and the mounting surface to prevent bowing or stressing the battery case.	

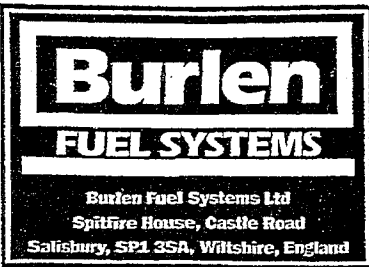
\*300 cycles at 100% depth of discharge; one cycle per day, C/5 (Charge: 7.50V constant voltage, 3C current limit, 16 hour charge).

**CYCLE LIFE**

Cycle Life varies with depth of discharge (D.O.D)

DOD %	Cycle Life
100	300
80	450
60	700
25	1,600
10	3,000
5	5,000

N.B Service life is dependant on correct charging of the product and operating temperature.



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**6 Volt - 5.0 Ah / 9064W sealed lead rechargeable battery (non-spillable).**

Thank you for purchasing the Burlen 6 volt 5 amp/hour no maintenance battery. The Burlen Battery can be mounted any way up but please mount securely using the holes in the casing or with rubber straps and preferably on an anti-vibration pad (rubber or foam).

Unlike normal lead acid batteries the Burlen Battery can be left (charged) for over 1 year and it will retain up to 80% of its charge (depending on temperature and conditions).

**WARNING NOTICE**

Check your charging system, if in doubt do not fit this battery.

Sealed Dry batteries must be charged at 7.05 to 7.4 volts, over or under voltage charging will cause irreparable damage and the guarantee will be void.

Do not leave in a discharged state or permanent damage could result.

**SAFETY PRECAUTIONS**

1. Recombination technology is designed to contain and recombine gas produced in overcharge. In certain circumstances such as abusive overcharge gasses can be vented through the safety valve. To prevent any possibility of explosion. This valve is situated under the label and is self sealing.

***Never charge in a gas tight container***

2. Pure lead/tin batteries have a very low internal impedance and are capable of delivering very high currents if short circuited. The resultant heat could cause severe burns or a fire.

***Do not short circuit cells or batteries***

3. To ensure correct service life and operation:

***Use approved charging methods***

**DISPOSAL**

This Battery contains materials capable of being recycled and should be disposed of according to the laws governing the recycling of lead products.

**TRANSPORTATION**

The Products are classified as non-spillable wet lead acid batteries and can be shipped by land, sea, and air as non-hazardous cargo.