



CONCORDE BATTERY CORPORATION
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BATTERY SERVICE INSTRUCTIONS



MAINTENANCE-FREE, VALVE-REGULATED,
SEALED LEAD-ACID BATTERIES
DESIGNED FOR DEEP CYCLE / BACK-UP POWER PHOTOVOLTAIC APPLICATIONS

BATTERY SERVICE INSTRUCTIONS

1. CHARGE PROCEDURES -

Concorde Sun-Xtender Sealed, Valve Regulated AGM Batteries are charged at the factory and are ready for installation when they are received. While in storage they should be boost charged every 90 days or when their open circuit voltage falls below 12.5 V for a 12 volt battery, 6.25 V for a 6 volt battery and 2.08 V for a 2 volt battery.

Boost charge batteries using a regulated constant potential [constant voltage] charger, with an output of 14.1 to 14.4 V [for 12 volt batteries]. The battery is considered fully charged when the current drops to approximately 0.5 A for one hour.

Batteries that have not been boost charged and have been in storage for long periods of time [not more than 9 months] may need a conditioning charge. These batteries should be charged at the constant current rate [listed below] until the voltage remains constant or decreases for one hour or until the battery temperature reaches 115 F [46 C] while on charge.

CONSTANT CURRENT CHARGE RATE TABLE							
12 VOLT BATTERIES			6 VOLT BATTERIES			2 VOLT BATTERIES	
PVX-340T	2		PVX-1380T	7		PVX-4140T	19
PVX-420T	2		PVX-1680T	8		PVX-5040T	24
PVX-490T	2		PVX-1780T	8		PVX-5340T	24
PVX-560T	3		PVX-2080T	10		PVX-6240T	30
PVX-690T	3		PVX-2160T	10		PVX-6480T	30
PVX-840T	4		PVX-2240L	11			
PVX-890T	4						
PVX-1040T	5						
PVX-1080T	5						
PVX-2120L	10						
PVX-2580L	12						

2. RESERVE CAPACITY TEST PROCEDURE -

Make sure the battery is charged in accordance with paragraph 2 above.

With the battery temperature above 68 F [20 C] discharge the battery at 25 A to 10.5 V for a 12 V battery [1.75 V per cell]. Record the minutes of discharge.

If the battery fails to deliver 80% of its rated discharge time [in minutes] the battery should be replaced. Refer to the 25 A discharge time table below.

25 A DISCHARGE TIME TABLE										
12 VOLT BATTERIES				6 VOLT BATTERIES				2 VOLT BATTERIES		
	Rated	80%			Rated	80%			Rated	80%
PVX-340T	50	40		PVX-1380T	242	194		PVX-4140T	726	581
PVX-420T	61	49		PVX-1680T	298	238		PVX-5040T	894	715
PVX-490T	84	67		PVX-1780T	316	253		PVX-5340T	948	758
PVX-560T	96	77		PVX-2080T	372	298		PVX-6240T	1116	893
PVX-690T	121	97		PVX-2160T	390	312		PVX-6480T	1170	936
PVX-840T	149	119		PVX-2240L	492	394				
PVX-890T	158	126								
PVX-1040T	186	149								
PVX-1080T	195	156								
PVX-2120L	390	312								
PVX-2580L	504	403								

All specifications and ratings subject to change without notice.