

SCHUMACHER BATTERY TROUBLESHOOTING CHART

PROBLEM	POSSIBLE CAUSE	REASON
Battery clamps do not spark when touched together.	The charger is equipped with an auto-start feature. It will not supply current to the battery clamps until a battery is properly connected. The clamps will not spark if touched together.	No problem, this is a normal condition.
The charger will not turn on when properly connected.	<p>AC outlet is dead.</p> <p>Poor electrical connection.</p> <p>Clips are not making a good connection to the battery. CONNECTED LED is not lit.</p>	<p>Check for open fuse or circuit breaker supplying AC outlet.</p> <p>Check power cord and extension cord for loose fitting plug.</p> <p>Check for poor connection to battery and frame. Make sure connection points are clean. Rock clips back and forth for a better connection.</p>
Engine start does not work.	<p>Drawing more than 85 amps.</p> <p>Failure to wait 3 minutes (180 seconds) between cranks.</p> <p>The charger may be overheated.</p> <p>Battery may be severely discharged.</p>	<p>Crank time varies with the amount of current drawn. If cranking draws more than 85 amps, crank time may be less than 5 seconds.</p> <p>When the countdown from 180 to 0 is displayed, wait until the display shows "rd" for the next crank.</p> <p>The thermal protector may have tripped and needs a little longer to reset. Make sure the charger vents are not blocked. Wait and try again.</p> <p>On a severely discharged battery, use the 30A Boost rate for 10 to 15 minutes (or jump start it with a portable jumper pack), to help assist in cranking.</p>
CHARGING LED is flashing.	Indicates the charger is in "Abort mode".	Unplug the charger from the AC outlet, wait a few moments, and plug it back in.
I cannot select a 6V or 12V setting.	The charger is equipped with Auto Voltage Detection, which automatically detects the voltage and charges the battery.	No problem, this is normal.

<p>I press the display button, but do not see the percentage of charge.</p>	<p>When first connected to a battery, the display shows voltage only.</p>	<p>This is normal. The percentage of charge is only displayed during charging.</p>
<p>The display shows "bAd / bAt / F01".</p>	<p>The battery voltage is still below 10V (for a 12V battery) or 5V (for a 6V battery) after 2 hours of charging.</p>	<p>The battery may be defective. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced.</p>
<p>The display shows "bAd / bAt / F02".</p>	<p>Desulfation was unsuccessful, after 10 hours.</p>	<p>The battery may be defective. Have battery checked or replaced.</p>
<p>The display shows "bAd / bAt / F05".</p>	<p>Lack of progress is detected after 12 hours in Maintain mode.</p>	<p>The battery won't hold a charge. May be caused by a drain on the battery or the battery could be bad. Make sure there are no loads on the battery. If there are remove them.</p> <p>If there are none, have the battery checked or replaced.</p>