

SUBJECT: REPLACE CURTIS CHARGER WITH PRO-TECH CHARGER FOR SMARTCART® AGC

CURTIS 8 amp and 20 amp battery chargers for SmartCart® AGC have been discontinued. Jervis B. Webb Company recommends PROTECH 12 amp and 25 amp chargers as replacements.

This bulletin provides instruction in setting up the charger depending on which battery pack and charger you are now using. Replacement part numbers are also provided.

This bulletin also includes the new documentation from our standard manuals about using the PROTECH-C Battery Charger.

New Charger Set-Up

24 VDC Battery Packs	ProTech 2412C (12 amp output) Dip Switch Settings	ProTech 2425C (25 amp output) Dip Switch Settings
2 – AC Delco #S2000 or #DC31	Flooded, 2 Hour	Flooded, 2 Hour
4 – AC Delco #S2000 or #DC31	Not Recommended	Flooded, 2 Hour
2 – Deka #8A31	AGM, 2 Hour	AGM, 2 Hour
4 – Deka #8A31	Not Recommended	AGM, 2 Hour

Replacement Part Numbers for this Equipment, purchased through your normal Procurement Methods:

- C1095348 – Charger-12 Amp (w/o Gray SB-50 Plug and Cable)
- C1095349 – Charger-25 Amp (w/o Gray SB-50 Plug and Cable)
- C1095350 – Gray SB-50 Plug and Cable

Manual Charging

- The Onboard Solutions ProTech-C Battery Charger is a user selectable charger.
- The ProTech-C has an IEC universal voltage input connector and can auto-detect any circuit rated between 95-250VAC 50/60 Hz. This unit automatically adjusts for 120 Volt or 240 Volt AC input power.
- The ProTech-C is designed with a Quick Disconnect DC output connector that connects to a supplied DC output cable assembly. While looking directly at the DC faceplate, note that the left side of the output connector is the minus (negative) side of the output voltage and the right side of the connector is the plus (positive) side of the output voltage. The end cap has "NEG" and "POS" markings on it to indicate proper polarity connection of the output cable.

Note: The output DC cable is only installed when AC power is removed from the charger.



PROTECH-C BATTERY CHARGER

Battery Type Selector Switch

Note: his switch is covered and should only be accessed by qualified personnel.

1. You have Absorbed Glass Mat (AGM) batteries installed in your SmartCart[®] AGC.
2. Remove AC power from charger unit.
3. Locate the user programmable battery selector switch, labeled TYPE, on the DC end of the charger.
4. For AGM batteries, set switch as follows: 1 = ON, 2 = OFF, 3 = ON.

Programmable Absorption Timer Switch

Note: This switch is covered and should only be accessed by qualified personnel.

1. Locate the user programmable timer selector switch, labeled TIME, on the DC end of the charger.
2. For a two-hour absorption setting, set switch as follows: 1 = OFF, 2 = OFF, 3 = OFF.

Charging: Sequence of Events When Power is Applied

1. Battery-type LED will illuminate and is controlled by battery type selector switch.
2. Charging LED will illuminate until battery voltage reaches over 30 Volts (24VDC system). The conditioning LED will then illuminate.
3. The Conditioning LED will remain on for two (2) hours, determined by the Absorption Timer Switch.
4. After two (2) hours, the Conditioning LED will turn off and the Ready LED will illuminate, indicating that the batteries are fully charged, are being maintained in the float maintenance mode, and are ready for use.
5. In Ready mode, the batteries are maintained at the selected battery voltage and will supply power for loads of any type up to the maximum output of the charger.

Manual Charging

1. On the SmartCart[®] AGC Control Panel, switch the power to the Off position.
2. Connect the DC output of the charger to the batteries to be charged.
3. Connect charger power supply cord to a properly grounded 120 VAC outlet.
4. The charger will indicate when the battery is fully charged.

Note: To prevent arcing at the battery connections, remove AC power from the charger before disconnecting the DC cable from the SmartCart[®] AGC.

WARNING: BE SURE TO UNPLUG THE CHARGER FROM THE SMARTCART[®] AGC BEFORE RESTARTING THE CART.