

# OPERATING INSTRUCTIONS

## Norman Super Charger For The 200C & 400B Battery Portable Flash Systems.

The new Norman Super Battery Charger replaces the "Delta V" C55 Single Charger and the C55X2 Dual Charger.

The advantages of this new technology over the previous chargers are faster charging, two batteries can be charged from an automobile cigarette lighter, and the new unit is considerably easier to use.

Quick reference charger instructions are on a label on the bottom of the unit, and for convenience, repeated here:

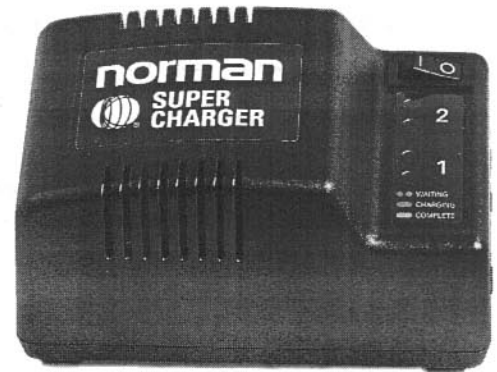
### Charger Instructions

See manual for detailed operating instructions.

#### Starting Charge

- 1) Turn off power switch.
- 2) Attach batteries and charging cable to charger. If only one battery is used it **MUST BE IN CHANNEL 1**.
- 3) Turn on power switch.
- 4) Channel 1 will remain solid red, channel 2 will continue to blink until channel 1 is completely charged, then channel 1 will turn green and channel 2 will become solid red.
- 5) After charge is complete, remove power and then remove the batteries.
- 6) To start a new charge, power must be cycled.

Red blinking - waiting to charge.  
Red solid - channel charging.  
Green solid - channel charging complete.



Left Side View



Right Side View

## AC Inlet

Connects the AC Power Cable to the charger. The AC input voltage can be either a standard 110 volt or 220 volt household circuit, 50-60 Hz.

### IMPORTANT

1. Before connecting the AC Power Cable, check to see that the 115/230 Volt Switch is set to correspond with the incoming AC line voltage.
2. Do not use the AC Power Cable (R4157) with Norman AC operated power supplies, as the wire size is small (for compactness) and insufficient for high-current usage.

The R4157 AC Cable (included) is a light-duty compact cord. It is gray in color to make it easily distinguished from the heavy-duty black AC cables that are utilized on Norman power supplies.

## 115/230 Volt Switch

Enables the Super Charger to operate on 115 or 230 volts. Before operating the charger, be sure that the 115/230 Volt Switch is set to match the incoming AC line voltage.

## CHARGE Outlet

Connects the Charge Cable to the Charger and to the batteries or power supply. Optional cables are available for use with the batteries and power supplies.

## CIGARETTE LIGHTER Inlet

Enables the Super Charger to operate from a standard 12 volt DC automobile cigarette lighter. Requires the use of an R5200 Auto Cigarette Lighter Cable (not included). Power is 12 volts DC at 3 amps. To operate, connect the R5200 Cable to the CIGARETTE LIGHTER inlet and to an auto lighter socket. The power pack and Super Charger should be situated in a manner that prevents them from making contact with the metal chassis of the vehicle. If contact is made the charger will automatically switch off and the Charge Indicator Light will extinguish.

## Charge Indicator Lights

The Super Charger charges channel 1 and then channel 2. If only one battery is used, it must be used in channel 1. In the 400B, channel 1 is the short cable in the lid. Red Blinking = Waiting to charge. The charger will be in this state if there is no battery, channel 2 will be in this state if channel 1 is charging, or the battery is at an unsafe charging voltage (voltage too low), the charger will slowly bring the voltage up to a safe charging level. Red Solid = Channel is charging. Green Solid = Channel is complete. The charger can be left on continuously without causing damage to the battery. The charge time is about three hours for two batteries, AC or DC.

## FUSE

Protects the charger in the event of a circuit overload. The part number of the fuse is 802-1910, 2amp. If replacement fuses continue to blow, the charger requires service.

## SPECIFICATIONS

Height - 3 1/2"  
Length - 6 1/4"  
Width - 4 1/2"  
Weight - 3 lbs.

PCC Part #311-310  
Manual Super Charger