## The Case for adding a Combiner to a Stock Diode Isolator

### **RETAINED, STOCK, DIODE ISOLATOR FEATURES**

- \* NO electrical modifications required by the electrically challenged
- Retained features of the diode isolator Electric choke - alternator pick-off Electric fuel pump – alternator pick-off High current, high speed fan connection – alternator pick-off

\* Engine stops, alternator voltage stops

### **ENHANCED FEATURES**

\* The **SAFE** way to combine battery banks

Charge all banks from any source

Automatic drop-out from shorts, over voltage, heavy loads

\* Drive home on Onan power after alternator failure

### ISSUES

- \* Masks diode isolator failures
- \* APC still required to protect from alternator failure

# The Case for adding a Combiner to a Stock Diode Isolator

Blue Sea

No changes in stock wiring

Three connections from a combiner <sup>•</sup> Much better and safer than a jumper wire

Yandina

Automatic operation

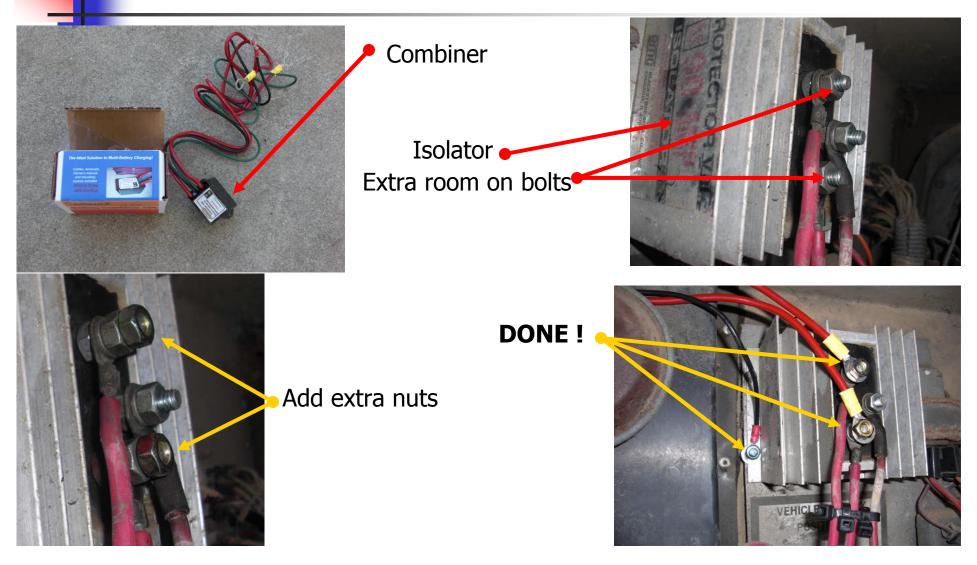
Charge all banks from all sources Protection from failures Battery banks isolated

Combiners will disconnect from hazards



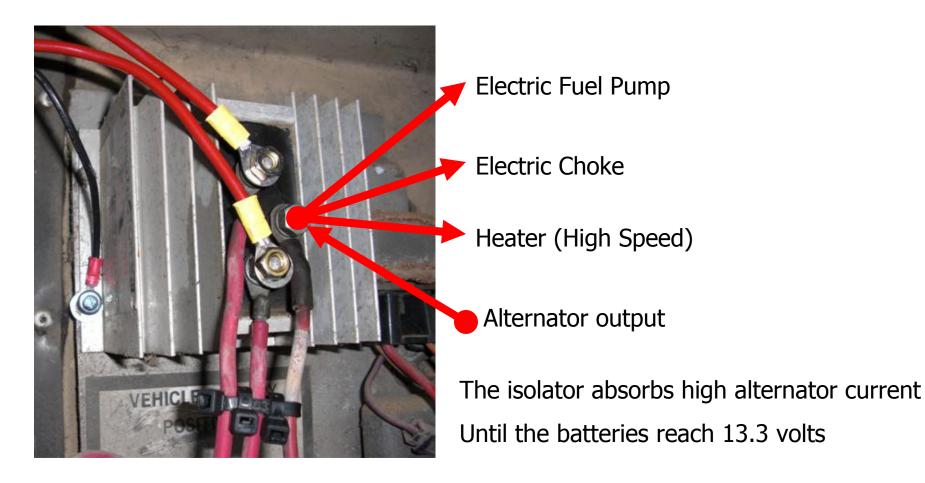
Thanks to Denny for picture

### **10 Minute Combiner Install**



# These Functions still work with this Combiner Install

### These "Engine-running" functions possible because of the isolator diodes





### The combiner will mask Diode isolator failures

\* Difficult to determine the isolator has failed as the combiner will still work

### **Still need the Alternator Protection cable**

\* The high voltage alternator failure will still destroy the dash wiring

\* The APC also, does not modify stock electrical wiring

\* The alternator light should never glow dim.

### Banks of batteries can be connected with multiple combiners

\* Bad batteries and discharges will automatically be disconnected

### Smart chargers will automatically charge the engine battery