



REV.A LAYOUT ERRORS:
 1. C16 MISSING: WIRE TO Q1 AS SHOWN.
 2. U8, U10 CHANGED FROM 4N35 TO CNY17-4.
 3. U4,5,6: PINOUTS WRONG; MOUNT INVERTED.
 FOLD PINS UP SO PIN 1 GOES IN HOLE 8, ETC.
 4. R22,23 CHANGED FROM 10 OHMS TO 1M4741A.
 5. U7 WAS BWR-5/250-D12, NOW BST-5/250-D12.

NOTES:
 .. ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.
 .. ALL RESISTORS 5% 1/4W UNLESS OTHERWISE NOTED.
 .. CAPACITORS WITH VDC RATINGS ARE ELECTROLYTIC.
 .. K16-17 ARE P&B T92S11D12-12, COIL 12vdc 140mA, CONTACTS DPDT 30amp
 .. K18-20 ARE P&B T9AS5D12-12, COIL 12vdc 83mA, CONTACTS SPDT 15amp
 .. IF BATMOD U9 IS USED, INSTALL C9 C16 D30 L1 R27 R31 U10 V1 AND PARTS
 ON BREAK-OUT BOARD. LEAVE OFF SHUNT SH1, SHORT SH1 PINS 1, 2, AND 4.

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Title: BATTERY BALANCER - CONTROL BOARD

Size B	Document Number BCONTROL.SCH (C) 1998-2001 by TMSI	Rev A
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Date: Saturday, September 07, 2002 Sheet 1 of 1

This is the schematic for Lee Hart's battery balancer. Sorry the file is so huge, it's the only way to get all the details in!
 I also have this file as a vector graphic embedded in a Microsoft Word97 document and Orcad for Windows (release 9.1), so if you'd like a copy, drop me an email at electric.mini@ntlworld.com