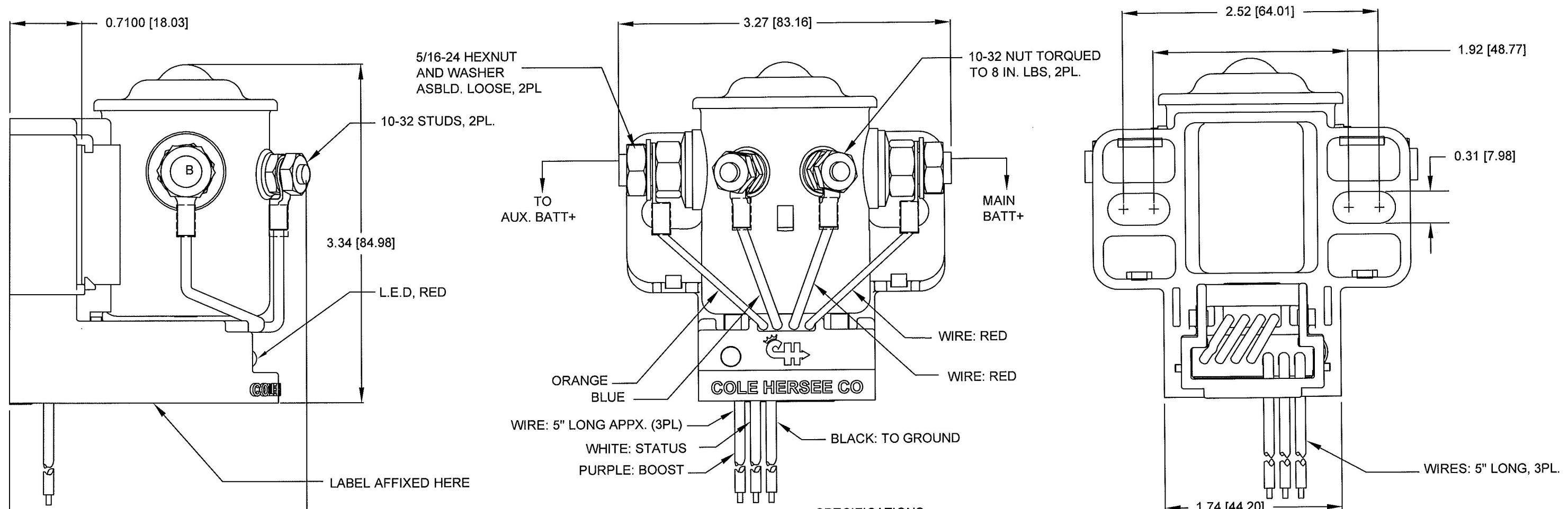


Revision Control Record			
Rev.	Description of Change	ECN No.	Date
A	NEW PRODUCT	07437	11/09/07
B	ADD BOX TO BOM	08024	01/10/08
C	BOM CHANGE	11415	12/6/11



SPECIFICATIONS.
ENVIRONMENTAL: SAE J1455 AND J1113
 -40 TO +85°C;
MOISTURE PROTECTION: IP67 (ELECTRONIC MODULE ONLY)
ELECTRICAL: 9-16 VDC
 LOAD: 200A CONTINUOUS
 INRUSH: 750A
 8 mA QUIESCENT CURRENT
ACCURACY: +/- 100 mV
POWER STUDS: 5/16-24
WIRE CONNECTIONS: 18AWG, SXL, 5" LONG
 a. VIOLET: BOOST
 b. BLACK: GROUND
 c. STATUS

- NOTES.**
- 1) SOLENOID MONITORING AND CONTROLLING DEVICE
 - 2) ALL STEEL PARTS ARE PLATED.
 - 3) ALL DIMENSIONS ARE FOR REFERENCE ONLY
 - 4) NO ADDITIONAL CONNECTIONS OF ANY KIND TO THE 10-32 (COIL) STUDS OF THE SOLENOID BY THE END USER, ARE ALLOWED. DOING SO COULD DAMAGE THE ELECTRONIC CONTROL MODULE.

- OPERATION.**
- 1) THE TWO BATTERIES ARE ELECTRICALLY CONNECTED WHEN EITHER BATTERY VOLTAGE IS ABOVE 13.2V FOR 2 MIN. (i.e DURING CHARGING)
 - 2) THE TWO BATTERIES ARE ISOLATED WHEN BOTH BATTERY VOLTAGES ARE BELOW 12.7V FOR 1 MINUTE.
 - 3) THE BOOST FUNCTION CONNECTS THE TWO BATTERIES TO PROVIDE ADDITIONAL STARTING POWER.
 - 4) TO ENABLE THE BOOST FUNCTION, CONNECT THE VIOLET WIRE TO +12VDC.
 - 5) THE L.E.D STATUS INDICATOR IS TURNED ON WHEN THE TWO BATTERIES ARE CONNECTED.

Tolerances Unless otherwise specifically noted, the following are default tolerances;
 * 2-place Decimal Dimensions +/- .02"
 * 3-place Decimal Dimensions +/- .005"
 * Angular Dimensions +/- 1.0 Deg.
 * Metric: Refer to equivalent English Dimension Tolerance
 >>> NOTE: All tolerances are Non-Cumulative. <<<

Dimensional Units All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

"REF." or an Asterisk (*) = Non-Toleranced Reference Dimension, shown for clarification purposes only.

Used On or Ref.: **EX-28421** Scale: **1:1**

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DESIGN CONTROL It is the responsibility of the individual using / referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

Drawn By: **G.Auguste** Date Drawn: **10/12/07**

Special Characteristics:

- Ⓢ Critical Characteristic, relating to Safety and/or Regulatory Compliance
- Ⓧ Significant Characteristic relating to Process Control (SPC)
- Ⓚ Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)

Responsible Engineer: **B. Pevear** Pg. 1 of 1

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SOLENOID MODULE

Drawing / Part No.: **48530** Current Rev.: **C**